



ADDENDUM NO. 1

TO: All Registered Bidders
DATE: April 19, 2023
PROJECT: Little Lake City School District
2023 Painting Group 1
CONTACT: Jaime Velasquez, Ledesma & Meyer Construction Co., Inc.

This Addendum forms as part of the Contract Documents for the Project described above and shall supersede referenced sections of the original Bidding Documents. This Addendum is an integral part of said Bidding Documents and shall be acknowledged in the Contractor's Bid Proposal form. Failure to acknowledge receipt of this Addendum in the Bid may cause the Bid to be rejected.

This addendum is divided into six (6) parts: Instructions and Procedures, Project Manual, Project Specifications, Drawings, Other Documents, and Pre-Bid Questions.

I. INSTRUCTIONS AND PROCEDURES

1. The following changes, omissions and/or additions to the Bid Specification shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.
2. Careful note of the Addendum shall be taken by all parties of interest so that the proper allowance may be made in all computations and estimates, and all trades affected shall be fully advised in the performance of the work which will be required of them.
3. In case of conflict between the Drawings, Specifications, and this Addendum, this Addendum shall govern.

II. PROJECT MANUAL

1. Document 00 01 00 – Instructions to Bidders: Remove and replace in its entirety (10 pages) labeled Addendum No. 1.
2. Document 00 03 00 – Bid Form: Remove and replace in its entirety (4 pages) labeled Addendum No. 1.
3. Document 00 06 62 – Contractor's Certificate Regarding Drug-Free Workplace: Add in its entirety (1 page) labeled Addendum No. 1.
4. Document 00 06 67 – Certificate Regarding Alcoholic Beverage and Tobacco-Free Campus Policy: Add in its entirety (1 page) labeled Addendum No. 1.
5. Document 00 07 00 – General Conditions: Remove and replace in its entirety (138 pages) labeled Addendum No. 1.



6. Document 01 01 10 – Work Scope Special Conditions: Add in its entirety (7 pages) labeled Addendum No. 1.
7. Document 01 21 00 – Allowance Section 3.1.1.1: Remove and replace with the following cash allowances:

Total Allowance for Painting Group 1 Sites: **\$75,000.00**
Breakdown per site as follows:
\$50,000.00 for Lake Center MS
\$25,000.00 for Studebaker ES
8. Document 01 21 00 – Allowance Section 3.1.2: Remove and replace with the following:

The Category Contractor and any Subcontractor shall be permitted to charge overhead and profit as per Supplemental General Conditions 00 80 00, Article 7.7.1. If any allowance amount (in whole or in part) is unused at any given point during the project, the Category Contractor shall credit back the full or unused portion of the allowance amount stipulated.
9. Document 01 31 00 – Schedule: Add in its entirety (1 page) labeled Addendum No. 1.

III. PROJECT SPECIFICATIONS

1. Specification 09 91 00 Painting: Remove and replace in its entirety (130 pages) labeled Addendum No. 1.

IV. DRAWINGS

LAKE CENTER MIDDLE SCHOOL

1. Drawing LCMS.1: Remove and replace in its entirety (1 sheet) labeled Addendum No. 1.
 - Detail 4/LCMS.1: Color finish schedule materials and color name revisions.
 - Detail 5/LCMS.1: Language revisions as to finishes color.
 - LCMS.1 / Painting and Prep Notes: Clarification of structures that are to be painted.
 - LCMS.1 / Typ. Painting + Construction Notes: Language clarification on the new wood fascia to be used.

STUDEBAKER ELEMENTARY SCHOOL

1. Drawing SES.1: Remove and replace in its entirety (1 sheet) labeled Addendum No. 1.
 - Detail 4/SES.1: Color finish schedule materials and color name revisions.
 - Detail 5/SES.1: Language revisions as to finishes color.
 - SES.1 / Painting and Prep Notes: Clarification of structures that are to be painted.
 - SES.1 / Typ. Painting + Construction Notes: Language clarification on the new wood fascia to be used.



V. OTHER DOCUMENTS

1. See attached Asbestos Inspection Report (105 pages) for Lake Center Middle School from Executive Environmental, dated January 22, 2014.
2. See attached Lead-Based Paint/Ceramic Tile Inspection Report (140 pages) for Lake Center Middle School from Executive Environmental, dated January 30, 2014.
3. See attached Limited Asbestos Inspection Report (48 pages) for Studebaker Elementary School from Executive Environmental, dated March 22, 2018.
4. See attached Limited Lead-Based Paint/Ceramic Tile Inspection Report (69 pages) for Studebaker Elementary School from Executive Environmental, dated March 22, 2018.

VI. PRE-BID QUESTIONS

None submitted.

END OF ADDENDUM

INSTRUCTIONS TO BIDDERS

1. **Preparation of Bid Form.** Proposals under these specifications shall be submitted on the blank forms furnished herewith at the time and place stated in the Notice Inviting Bids. All blanks in the bid form must be appropriately filled in, and all proposed prices must be stated clearly and legibly in both words and numerals. All bids must be signed by the bidder in permanent blue ink and submitted in sealed envelopes, bearing on the outside, the Trade Contractor Category of Work, the bidder's name, address, telephone number, and California Contractor's License number, and the name of the Project for which the bid is submitted. The District reserves the right to reject any bid if all of the above information is not furnished. It is each bidder's sole responsibility to ensure its bid is timely delivered and received at the location designated as specified above. Any bid received at the designated location after the scheduled closing time for receipt of bids shall be returned to the bidder unopened.

2. **Bid Security.** Each bid must be accompanied by one of the following forms of bidder's security: (1) cash; (2) a cashier's check made payable to the District; (3) a certified check made payable to the District; or (4) a bidder's bond executed by a California admitted surety as defined in Code of Civil Procedure Section 995.120, made payable to the District, in the form set forth in the Contract Documents. Such bidder's security must be in an amount not less than ten percent (10%) of the maximum amount of such bidder's bid as a guarantee that the bidder will enter into the Contract, if the same is awarded to such bidder, and will provide the required Performance and Payment Bonds, insurance certificates and any other required documents. In the event that a bidder is awarded the Contract and such bidder fails to enter into said Contract or provide the surety bond or bonds within five (5) calendar days after award of the Contract to bidder, said security will be forfeited.

3. **Signature.** The bid form, all bonds, all designations of subcontractors, the Trade Contractor's Certificate, the Agreement, and all Guarantees must be signed in permanent blue ink in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid.

If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

If bidder is a partnership, the true name of the firm shall first be set forth, together with the names of all persons comprising the partnership or co-partnership. The bid must be signed by all partners comprising the partnership unless proof in the form of a certified copy of a statement of partnership acknowledging the signer to be a general partner is presented to the District, in which case the general partner may sign.

Bids submitted as joint ventures must so state and be signed by each joint venturer.

Bids submitted by individuals must be signed by the bidder unless an up to date power-of-attorney is on file in the District office, in which case, said person may sign for the individual.

The above rules also apply in the case of the use of a fictitious firm name. In addition, however, where a fictitious name is used, it must be so indicated in the signature.

4. **Modifications.** Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the

Contract Documents may result in the District's rejection of the bid as not being responsive to the Notice Inviting Bids. **No oral or telephonic modification of any bid submitted will be considered.**

5. Erasures, Inconsistent or Illegible Bids. The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction creates no inconsistency and is suitably authenticated by affixing in the margin immediately opposite the correction the signature or signatures of the person or persons signing the bid. In the event that the District determines that any bid is unintelligible, inconsistent, or ambiguous, the District may reject such bid as not being responsive to the Notice Inviting Bids.

6. Examination of Site and Contract Documents. Each bidder shall visit the site of the proposed Work and become fully acquainted with the conditions relating to the construction and labor so that the facilities, difficulties, and restrictions attending the execution of the work under the Contract are fully understood. Bidders shall thoroughly examine and be familiar with the Drawings, specifications, Addenda, Contract Documents and Trade Contractor Scope of Work. The failure or omission of any bidder to receive or examine any Contract Documents, form, instrument, addendum, or other document or to visit the site and become acquainted with conditions there existing shall not relieve any bidder from obligations with respect to the bid or to the Contract. The submission of a bid shall be taken as prima facie evidence of compliance with this Section. Bidders shall not, at any time after submission of the bid, dispute, complain, or assert that there were any misunderstandings with regard to the nature or amount of work to be done.

7. Understanding of Schedule and Milestones. Trade Contractor understands that it is one of multiple Trade Contractors that has been contracted to construct the Project. Trade Contractor must thoroughly study the proposed Outline Schedule, Phases, and Milestones and determine:

- a. Timing of Work that will be performed by the Trade Contractor compared to other Trade Contractors
- b. Duration of Work and whether the duration is reasonable based on the Trade Category of Work and that of the other Trade Contractors that will all be simultaneously working on the Project.
- c. The key Milestones and Phases for Trade Contractor's Work.
- d. The dates when Submittals and Shop Drawings are to be delivered and reviewed
- e. Dates anticipated for Punch Lists for the Project.

The Project Baseline Schedule for the Project shall be built by CM based on the Outline Schedule and each Trade Contractor's realistic input on the Outline Schedule. Trade Contractor's failure to participate in preparing the Trade Contractor Baseline Schedule and Project Baseline Schedule will be deemed to have failed to participate in critical coordination activities necessary to ensure the Project will be completed in the Contract Time. Trade Contractor is also notified of Trade Contractor's obligation to undertake Punch List Work at the end of the Project. Trade Contractor's Substantial Completion of Trade Contract Work does not result in release of Retention even if there are other Trade Contractors that must perform Work for several weeks or months after Trade Contractor's Work is Substantially Complete. Retention shall be released upon Completion of all Punch List Work for the Project.

8. Withdrawal of Bids. Any bid may be withdrawn by written request at any time prior to the scheduled closing time for receipt of bids. The bid security for bids withdrawn prior to the scheduled closing time for receipt of bids, in accordance with this paragraph, shall be returned upon demand therefor.

As per Public Contract Code sections 5100 – 5110; a bidder must provide the District written notice within 5 working days, excluding Saturdays, Sundays, and State Holidays if they wish the District to consider allowing them to withdraw their bid due to a qualifying mistake as noted in the code.

No bidder may withdraw any bid for a period of ninety (90) calendar days after the date set for the opening of bids.

9. Agreements and Bonds. The Agreement form which the successful bidder, as Trade Contractor, will be required to execute, and the forms and amounts of surety bonds which will be required to be furnished at the time of execution of the Agreement, are included in the bid documents and should be carefully examined by the bidder. The number of executed copies of the Agreement, the Performance Bond, and the Payment Bond required is three (3). Payment and Performance bonds must be executed by an admitted surety insurer as defined in Code of Civil Procedure 995.120.

10. Interpretation of Plans and Documents/Pre-Bid Clarification. If any prospective bidder is in doubt as to the true meaning of any part of the Contract Documents, or finds discrepancies in, or omissions, a written request for an interpretation or correction thereof may be submitted to the District. The bidder submitting the request shall be responsible for its prompt delivery. **Any interpretation or correction of the Contract Documents will only be made by Addendum duly issued, and a copy of such Addendum will be made available for each Trade Contractor receiving a set of the Contract Documents.** No person is authorized to make any oral interpretation of any provision in the Contract Documents, nor shall any oral interpretation be binding on the District. Trade Contractor shall not utilize inclusion or duplication of Trade Contractor's Work in another Trade Contractor's scope of Work to determine items that may not be included or excluded in Trade Contractor's Work. The only method to determine whether Work of another Trade Contractor results in exclusion or inclusion of Work is through a Request for Information that is included in an Addendum. If discrepancies on Drawings, specifications or elsewhere in the Contract Documents are not covered by addenda, bidder shall include in their bid methods of construction and materials for the higher quality and complete assembly. Each request for clarification shall be submitted in writing, via email, to only the following persons:

Ledesma & Meyer Construction Co. Inc.

TO: Maria Bautista – Project Coordinator mariab@lmcci.com

CC: Jaime Velasquez – Superintendent jaimev@lmcci.com

Each transmitted request shall contain the name of the person and/or firm filing the request, address, telephone, and fax number, Specifications and/or Drawing number. Bidder is responsible for the legibility of hand written requests. Pre-bid clarification request shall be filed a minimum of **six (6)** days prior to bid opening. Requests received less than **six (6)** days before bid opening shall not be considered or responded to. A written response to timely pre-bid clarifications requests which materially affects the bidders price will be made by Addendum issued by the Mountain View School District not less than seventy-two (72) hours prior to bid opening.

11. Bidders Interested in More Than One Bid. No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one prime bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a proposal or quoting prices to other bidders or making a prime proposal.

12. Award of Contract. The Contract will be awarded to the lowest responsive responsible bidder by action of the governing Board. The District reserves the right to reject any or all bids, including without limitation the right to reject any non-conforming, non-responsive, unbalanced, or conditional bids. The District also reserves the right to waive any irregularities or informalities in any bids or in the bidding. In the event an award is made to bidder, and such bidder fails or refuses to execute the Contract and

provide the required documents within five (5) calendar days after award of the Contract to bidder, the District may award the Contract to the next lowest responsible and responsive bidder or release all bidders. **Each bid must conform and be responsive to the Contract Documents as defined in the General Conditions.**

13. Bid Protest Procedure. The lack of prompt procedures to resolve disputes regarding the bidding process would impair the District's ability to carry out its purpose of constructing this Project in a timely manner. Therefore, to the maximum extent authorized by law and notwithstanding any other procedures specified in documents referenced herein, all disputes and/or protests regarding the bidding process shall be subject to the following procedure. In submitting a bid to the District for this project, the bidder agrees to comply with and to be bound by this procedure. Only bidders who have submitted a bid proposal for this Project may file a bid protest. The protest shall be filed in writing with the Project Manager for the CM (Ledesma & Meyer Construction Co., Inc.) by or before 5:00 p.m., on the third (3rd) business day following the date of the bid opening.

Bid protests must be submitted via email to: Brent Griffen at bgriffen@llcsd.net. Written protests must be in the physical possession of Brent Griffen by or before the deadline for submitting protests. Any protest received after the deadline will be deemed untimely and will not be considered.

By filing the protest, protesting bidder consents to receipt of e-mail notices for purposes of the Protest and Protest-related questions, if applicable.

a. Required Contents of Bid Protest:

- 1) Name, address, fax and telephone number of the protester and the name, address and telephone number of the person representing the protesting party.
- 2) Solicitation of Contract Number.
- 3) Detailed statement of the legal and factual grounds for the protest, including a description of resulting prejudice to the protester.
- 4) Reference to the specific portion(s) of the Contract Documents which forms the basis of the protest.
- 5) Copies of relevant documents.
- 6) Request for a ruling by the District.
- 7) Statement as to the form of relief requested.
- 8) All information establishing that protester is an interested party for the purpose of filing a protest.
- 9) All information establishing the timeliness of the protest.

b. Protesting Party. The party filing the protest must have actually submitted a Bid for the Work. A subcontractor of a party submitting a Bid for the Work may not submit a Bid protest. A party may not rely on the Bid protest submitted by another Bidder but must timely pursue its own protest.

c. Proof of Service. The party filing the protest must concurrently transmit a copy of the initial protest document and any attached documentation to all other parties with a direct financial interest which may be adversely affected by the outcome of the protest. Such parties shall include all other Bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest. The Bid protest must be accompanied by a proof of service declaring under penalty of perjury

that a copy of the written protest was concurrently delivered to all such affected parties, including any Bidder(s) against whom the protest is made.

d. Response Submitted by Protested Bidder. The protested Bidder will have until 5:00PM on the third (3rd) business day after the deadline for submitting initial protests to submit a written response. The responding Bidder shall transmit the response to the protesting Bidder concurrent with delivery to the District in the manner prescribed for submitting initial protests, above.

e. Frivolous Protests. If the District determines that a protest is frivolous, the protesting Bidder may be determined to be non-responsible and that Bidder may be determined to be ineligible for future contract awards

f. Resolution of Bid Controversy: District shall make its best effort to resolve protests and issue a written decision within fifteen (15) calendar days of receipt of the protest, unless factors beyond the District's reasonable control prevent such resolution. The decision on the bid protest will be copied to all parties involved in the protest.

g. Reservation of Rights to Proceed with Project Pending Protest. The District reserves the right to proceed to award the Trade Category of Work for the Project and commence construction pending a protest. If there is State Funding or a critical completion deadline, the District may choose to shorten the time limits set forth in this Section due to the urgency of proceeding with Work if written notice is provided to the protesting party. E-mailed notice with a written confirmation sent by First Class Mail shall be sufficient to constitute written notice. If there is no written response to a written notice shortening time, the District may proceed with the award.

h. Finality. The procedure and time limits set forth in this paragraph are mandatory and are the Bidder's sole and exclusive remedy in the event of Bid protest. Failure to comply with this Bid Protest Procedure shall constitute a waiver of the right to protest and shall constitute a failure to exhaust the protesting bidder's administrative remedies.

14. Alternates. If alternate bids are called for, the Contract may be awarded at the election of the Governing Board to the lowest responsible and responsive bidder using the method and procedures outlined in the Notice Inviting Bids and as specified in the Section entitled Alternate/Deductive Bid Alternates.

a. Subcontractor Listing for Alternates. If alternate bids are called for and the bidder intends to use different or additional subcontractors, a separate list of subcontractors must be submitted for each such alternate.

15. Evidence of Responsibility. Upon the request of the District, a bidder whose bid is under consideration for the award of the Contract shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, surety and insurance claims experience, construction experience, completion ability, workload, organization available for the performance of the Contract, and other factors pertinent to a Project of the scope and complexity involved.

16. Trade Contractor is experienced working with other Trade Contractors and shall carefully study the Outline Schedule in the Contract Documents to determine where Trade Contractor's Work shall occur and the relative congestion of the areas where Trade Contractor Work shall occur. Trade Contractor is also aware that CM will be building a Project Baseline Schedule based on the input of all Trade Contractors so the dates shown on the Outline Schedule are only approximate dates and durations. The Project Baseline Schedule shall be built through the input of all Trade Contractors and is subject to reasonable change during the course of the Project.

17. Listing Subcontractors. Each bidder shall submit with his bid, on the form furnished with the Contract Documents, a list of the names, license numbers and locations of the places of business of each subcontractor who will perform work or labor or render service to the bidder in or about the Project, or a subcontractor who under subcontract to the bidder, specially fabricates and installs a portion of the work, in an amount in excess of one-half of 1 percent of the bidder's total bid as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code Section 4100, et seq.). If the bidder fails to specify a subcontractor for any portion of the work to be performed under the Contract, the Bidder agrees to perform that portion of the work itself.

18. Workers' Compensation. In accordance with the provisions of Labor Code Section 3700, the successful bidder as the Trade Contractor shall secure payment of compensation to all employees. The Trade Contractor shall sign and file with the District the following certificate prior to performing the work under this contract: "I am aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract." The form of such certificate is included as a part of the Bid Documents.

19. Trade Contractor's License. To perform the work required by this notice, the Trade Contractor must possess the Contractor's License as specified in the Trade Contractor Scope of Work, and the Trade Contractor must maintain the license throughout the duration of the Contract. If, at the time of award of the Contract, bidder is not licensed to perform the Project in accordance with Division 3, Chapter 9, of the Business and Professions Code for the State of California and the Notice to Trade Contractors calling for bids, such bid will not be considered and the Trade Contractor will forfeit its bid security to the District.

20. Anti-Discrimination: It is the policy of the District that in connection with all work performed under contracts, there be no discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, sex, age, or marital status. The Contractor agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practice Act, beginning with Government Code Section 12900, Labor Code Section 1735, and Title 5, Division 1, Chapter 1, Subchapter 4 of the California Code of Regulations. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the work by him.

21. Preference for Materials and Substitutions.

a. One Product Specified. Unless the Plans and Specifications state that no Substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, construction, or any specific name, make, trade name, or catalog number, with or without the words, "or equal," such specification shall be read as if the language "or equal" is incorporated.

b. Request for Substitution. Bidder may, unless otherwise stated, offer any material, process, article, etc., which is materially equal or better in every respect to that so indicated or specified ("Specified Item") and will completely accomplish the purpose of the Contract Document. If bidder desires to offer a Substitution for a Specified Item, such bidder must make a request in writing on the District's Substitution Request Form ("Request Form") and submit the completed Request Form with the bidder's bid. The Request Form must be accompanied by evidence as to whether the proposed substitution:

- 1) Is equal in quality, service, and ability to the Specified Item as demonstrated by a side by side comparison of key characteristics and performance criteria (CSI comparison chart);
- 2) Will entail no changes in detail, construction and scheduling of related work;
- 3) Will be acceptable in consideration of the required design and artistic effect;
- 4) Will provide no cost disadvantage to the District;

- 5) Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and
- 6) Will require no change in the Contract Time.

In completing the Request Form, bidder must state with respect to each requested substitution whether bidder will agree to provide the Specified Item in the event that the District denies bidder's request for substitution of a Specified Item. In the event that bidder does not agree in the Request Form to provide the Specified Item and the District denies the requested Substitution, the bidder's bid shall be considered non-responsive and the District may award the Contract to the next lowest bidder or in its sole discretion, release all bidders. In the event that bidder has agreed in the Request Form to provide the Specified Item and the District denies bidder's requested substitution for a Specified Item, bidder shall execute the Agreement and provide the Specified Item without any additional cost or charge to the District, and if bidder fails to execute the Agreement with the Specified Item(s), bidder's bid bond will be forfeited.

The substitution review process is the process whereby a product is determined to be equal to that specified. The materials, products, and equipment described in the Contract Documents establish a standard of required function, dimension, appearance, and quality. Architect may consider requests for substitution of specified equipment, materials, or products only when requests are submitted in accordance with the provisions of the Contract Documents and are received by the Construction Manager within seven (7) calendar days of opening such bids. Any and all Drawings, specification, samples, performance data, calculations, and other information as may be required to assist the Architect and the District in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by bidder, the District will make its final decision as to whether the bidder's request for Substitution for any Specified Items will be granted. The District shall have sole discretion in deciding as to whether a proposed request for Substitution is equal to or better than a Specified Item. Any request for Substitution which is granted by the District shall be documented and processed through a Change Order. The District may condition its approval of any Substitution upon delivery to the District of an extended warranty or other assurances of adequate performance of the Substitution. Any and all risks of delay due to DSA, or any other governmental agency having jurisdiction shall be on the bidder.

22. Disqualification of Bidders and Proposals. More than one proposal for the same work from any individual, firm, partnership, corporation, or association under the same or different names will not be accepted; and reasonable grounds for believing that any bidder is interested in more than one proposal for the work will be cause for rejecting all proposals in which such bidder is interested and the bidder will forfeit their bid security to the District.

23. Unbalanced or Altered Bids. Proposals in which the prices are obviously unbalanced, and those which are incomplete or show any alteration of form, or contain any additions or conditional or alternate bids that are not called for or otherwise permitted, may be rejected. A proposal on which the signature of the bidder has been omitted may be rejected. If, in the District's sole discretion, it determines any pricing, costs or other information submitted by a bidder may result in an unbalanced bid, the District may deem such bid non-responsive. A bid may be determined by the District to be unbalanced if the bid is based on prices significantly less than cost for some work and prices which are significantly overstated in relation to cost for other work, and if there is a reasonable doubt that the bid will result in the lowest overall cost to the District even though it may be the low evaluated bid, or if it is so unbalanced as to be tantamount to allowing an advance payment.

24. Employment of Apprentices. The Trade Contractor and all Trade Contractor's Subcontractors shall comply with the provisions of California Labor Code including, but not limited to Sections 1777.5, 1777.6, and 1777.7 concerning the employment of apprentices. The Trade Contractor and any

Subcontractor under him shall comply with the requirements of said Sections, including applicable portions of all subsequent amendments in the employment of apprentices; however, the Trade Contractor shall have full responsibility for compliance with said Labor Code Sections, for all apprenticeable occupations, regardless of any other contractual or employment relationships alleged to exist.

25. Non-Collusion Declaration. Public Contract Code Section 7106 requires bidders to submit declaration of non-collusion with their bids. This form is included with the bid documents and must be signed and dated by the bidder under penalty of perjury.

26. Wage Rates, Travel and Subsistence.

a. The Trade Contractor and Trade Contractor's subcontractors shall comply with the requirements set forth in Division 2, Part 7, Chapter 1 of the Labor Code. Pursuant to Labor Code Sections 1770 et seq., the District has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft, classification or type of worker needed to execute the contract. Copies are available from the District to any interested party on request and are also available from the Director of the Department of Industrial Relations. The Trade Contractor shall obtain copies of the above-referenced prevailing wage sheets and post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

b. Any worker employed to perform work on the Project and such work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

c. Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

d. These per diem rates, including holiday and overtime work, and employer payments for health and welfare, pension, vacation, and similar purposes, are on file at the administrative office of the District, located as noted above and are also available from the Director of the Department of Industrial Relations. It is the Trade Contractor's responsibility to ensure the appropriate prevailing rates of per diem wages are paid for each classification. It shall be mandatory upon the Trade Contractor to whom the Contract is awarded, and upon any subcontractor under such Trade Contractor, to pay not less than the said specified rates to all workers employed by them in the execution of the Contract.

27. DIR Registration of Contractor and Subcontractors. A Contractor or Subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. This Project is a public works project as defined in Labor Code section 1720. Each Contractor bidding on this Project and all Subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations ("DIR") and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. For more information and up to date requirements, Contractors are recommended to periodically review the DIR's website at www.dir.ca.gov. Contractor shall be solely responsible for ensuring compliance with Labor

Code section 1725.5 as well as any requirements implemented by DIR applicable to its services or its Subcontractors throughout the term of the Agreement and in no event shall Contractor be granted increased payment from the District or any time extensions to complete the Project as a result of Contractor's efforts to maintain compliance with the Labor Code or any requirements implemented by the DIR. Failure to comply with these requirements shall be deemed a material breach of this Agreement and grounds for termination for cause. The Contractor and all Subcontractors shall furnish certified payroll records as required pursuant Labor Code section 1776 directly to the Labor Commissioner in accordance with Labor Code section 1771.4 on at least on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. The District reserves the right to withhold contract payments if the District is notified, or determines as the result of its own investigation, that Contractor is in violation of any of the requirements set forth in Labor Code section 1720 et seq. at no penalty or cost to the District. Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE).

28. No Telephone or Facsimile Availability. No telephone or facsimile machine will be available to bidders on the District premises at any time.

29. Obtaining Bidding Documents. Bidding Documents, may be obtained from:

Prospective contract bidders may secure documents (free of charge) in electronic format on-line only through "Secure Box" by contacting the District's Construction Manager; **LEDESMA & MEYER CONSTRUCTION COMPANY INC, 9441 HAVEN AVENUE, RANCHO CUCAMONGA, CALIFORNIA, 91730, (phone number: (909) 476-0590, fax number: (909) 476-0592 attention Maria Bautista, Project Coordinator (email mariablmc@com).**

For information regarding this project, prospective bidders are requested to contact **LEDESMA & MEYER CONSTRUCTION COMPANY INC, 9441 HAVEN AVENUE, RANCHO CUCAMONGA, CALIFORNIA, 91730-5844, (phone #(909) 476-0590, fax #(909) 476-0592).**

Bidder shall utilize a complete set of Bidding Documents in preparing a bid. The failure or omission of bidder to receive any Bidding Document, form, instrument, Addendum, or other document shall not relieve bidder from any obligations with respect to the bid and/or Contract.

30. Addenda. Clarification or any other notice of a change in the Bidding Documents will be issued only by the District and only in the form of a written Addendum, transmitted by fax, e-mail, or available for pick up to all who are known by the issuing office to have received a complete set of Bidding Documents. Any other purported Addenda are void and unenforceable.

Bidder is responsible for ascertaining the disposition of all Addenda issued regardless of District notification and to acknowledge all Addenda in the submitted sealed bid prior to the bid opening. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for inspection. Each Addendum will be numbered, dated, and identified with the Project number. Oral statements or any instructions in any form, other than Addendum as described above, shall be void and unenforceable. Addenda issued by the District and not noted as being acknowledged by bidder as required in the Bid Form, may result in the bid being deemed non-responsive.

31. Debarment. Bidder may also be subject to debarment, in addition to seeking remedies for False Claims under Government Code Section 12650 et seq. and Penal Code Section 72, the District may debar a Trade Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Trade Contractor has done any of the following:

- a. Intentionally or with reckless disregard, violated any term of a contract with the District

- b. Committed an act or omission which reflects on the Trade Contractor's quality, fitness or capacity to perform work for the District;
- c. Committed an act or offense which indicates a lack of business integrity or business honesty; or
- d. Made or submitted a false claim against the District or any other public entity (See Government Code Sections 12650, et seq., and Penal Code Section 72)

32. Forfeiture for Failure to Post Security and Execute Agreement: In the event the bidder to whom the Notice of Award is given fails or refuses to post the required bonds and return executed copies of the Agreement within **FIVE (5)** days from the date of receiving said Notice of Award, the District may declare the bidder's bid deposit or bond forfeited as damages caused by the failure of the bidder to post such security and execute such copies of the Agreement, and may give Notice of Award to the next lowest responsible bidder, or may call for new bids. It is agreed that calculation of damages that the District may suffer as a result of Bidder's failure to enter into a Contract with the District would be extremely difficult and impractical to determine and that the amount of the Bidder's required bid security shall be agreed and conclusively presumed to be the amount of said damages.

33. Drug-Free Work Place: Pursuant to Government Code Section 8355, every person or organization awarded a contract or grant from a State agency shall certify that it will provide a drug-free work place. Contractor shall sign and file with District prior to performing work under this contract a certificate agreeing to fulfill the terms and conditions of Government Code Section 8355. The form of such certificate is included as part of the contract documents under provisions of Document 00662.

END OF SECTION

BID FORM

TO: **LITTLE LAKE CITY SCHOOL DISTRICT**, acting by and through its Governing Board, herein called "District".

FROM: _____
(Proper Name of Bidder)

Dept. of Industrial Relations Public Works Contractor Registration # _____

1. Pursuant to and in compliance with your Notice Inviting Bids and other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the contract, the local conditions affecting the performance of the contract and the cost of the work at the place where the work is to be done, hereby proposes and agrees to perform within the time stipulated, the contract, including all of its component parts, and everything required to be performed, including its acceptance by the District, and to provide and furnish any and all of the labor, materials, tools, expendable equipment, and all utility and transportation services necessary to perform the contract and complete in a workmanlike manner all of the work required in connection with the following:

Bid Category (s) _____ for the construction of the project known as **2023 PAINTING GROUP 1** in District described above, all in strict conformance with the drawings and other contract documents on file at the Business Office of said District for amounts set forth herein.

2. ADDENDA

The undersigned has thoroughly examined any and all Addenda (if any) issued during the bid period and is thoroughly familiar with all contents thereof and acknowledges receipt of the following Addenda: (Bidder to list all addenda).

Number	Number	Number	Number	Number	Number	Number	Number
_____	_____	_____	_____	_____	_____	_____	_____

3. BASE BID (Numerical)
(Not to include cost for Allowance) \$ _____

ALLOWANCE (Numerical)
(See Spec Section 01 20 10) \$ _____

TOTAL BASE BID & ALLOWANCE (Numerical) \$ _____

TOTAL BASE BID & ALLOWANCE (in Words) _____

_____ DOLLARS

4. ALTERNATE BIDS

The following amounts shall be added to or deducted from the Base Bid at the District's option. Alternates are fully described in Section 01 01 90 – Contract Considerations.

Alternate No. 1 = (add) (deduct) \$ _____

Alternate No. 2 = (add) (deduct) \$ _____

5. **TIME FOR COMPLETION:** The aggregate sum total work of all individual prime contractors to the District comprises the entire “Project” and shall be commenced and completed in conformance with the Project Construction Schedule. The entire Project shall be completed within **109 consecutive calendar days with Substantial Completion being completed within 71 consecutive calendar days.** Bidder acknowledges liability for liquidated damages in the amount stipulated in the Agreement, and not as a penalty, for each calendar day of the delay for which Contractor has contributed to or caused until the complete project is completed and accepted.
6. It is understood that the District reserves the right to reject this bid and that the Bid shall remain open to acceptance and is irrevocable for a period of **NINETY (90)** days.
7. The following documents are attached hereto:
 - i. Document 00 03 01 Bidder Questionnaire
IMPORTANT NOTICE: This project is subject to DIR Public Works Funding Legislation - SB 854. To bid on this Project, the Prime Bidder and all of Prime Bidder’s Subcontractors are required to be registered online as a “public works contractor” with the California Department of Industrial Relations at www.dir.ca.gov and each shall pay an annual non-refundable fee via credit card.
 - ii. Document 00 03 01-1 DIR Registration Verification
 - iii. Document 00 03 01-2 Acknowledgement of Bidding Practices Regarding Indemnity
 - iv. Document 00 04 10 Bid Bond
 - v. Document 00 04 30 Designation of Subcontractors. Bidder understands and acknowledges that all subcontractors providing goods and services in excess of \$100,000.00 must be bonded.
 - vi. Document 00 04 80 Non-collusion Declaration
 - vii. Document 00 04 90 Certification – Participation of Disabled Veteran Business Enterprises
8. **Site Visit Certification:**

By submission of this bid, the Bidder hereby certifies that it’s estimating, and management staff has visited the site of the proposed work and is fully acquainted with the conditions relating to construction and labor. Bidder fully understands the facilities, difficulties, and restrictions attending the execution of the work under contract and has also relayed is this information to all listed subcontractors and suppliers. Bidder fully indemnifies **LITTLE LAKE CITY SCHOOL DISTRICT**, the Architect, the Construction Manager and all of their respective officers, agents, employees, and consultants from any damage, or omissions, related to conditions that could have been identified during a visit to the site.
9. The Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while fully cooperating and complying with all of the applicable provisions of the District's labor compliance program. The undersigned Bidder hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
10. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms “claims” and “knowingly” are defined in the California False Claims Act, CA Gov. Code,

§2650 et. Seq.), the District will be entitled to civil remedies set forth in the California False Claims Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.

11. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the District a contract in the form attached hereto in accordance with the bid as accepted, and that he will also furnish and deliver to the District **THREE (3)** executed copies of the Performance Bond and Payment Bond as specified, all within **FIVE (5)** days after receipt of Notice Of Award letter, and that the work under the contract shall be commenced by the undersigned bidder, if awarded the contract, on the date to be stated in the District's "Notice To Proceed", and shall be completed by the Contractor in the time specified in the contract documents.
12. Notice of Award letter or other correspondence should be addressed to the undersigned at the address stated below.
13. The names of all persons interested in the foregoing proposal as principals are as follows:

(IMPORTANT NOTICE: If bidder or other interested person is a corporation, state legal name of corporation, also names of the president, secretary treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if bidder or other interested person is an individual, state first and last names in full.)

14. The undersigned bidder declares that he or she is licensed in accordance with the act providing for registration of contractors and the documentation of licensure is as follows:

	License #	Classification	Expiration Date
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____

If the bidder is a joint venture, each member of the joint venture must include the above information.

The undersigned certifies (or declares) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

15. In the event the bidder to whom Notice of Award is given fails or refuses to post the required bonds and return executed copies of the agreement form within **FIVE (5)** calendar days from the date of receiving the Notice of Award, the District may declare the Bidder's bid deposit or bond forfeited as damages.

16. Pursuant to Section 4552 of the Government code, in submitting a bid to the District, the bidder offers and agrees that if the bid is accepted, it will assign to District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.
17. Bidder hereby automatically certifies, by submission of this bid form, that Bidder is fully knowledgeable of and in full compliance with California Public Contract Code Sections 2201-2208 (AKA: Iran Contracting Act) by either Option #1 "Certification" or Option #2 "Exemption".

NAME _____

ADDRESS _____

NAME _____

ADDRESS _____

DATE: _____

PROPER NAME OF BIDDER

BY: _____
SIGNATURE OF BIDDER

BY: _____
SIGNATURE OF BIDDER

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

Street Address: _____

City, State, Zip Code: _____

Mailing Address: _____

City, State, Zip Code: _____

Telephone: FAX: _____

END OF DOCUMENT

CONTRACTOR'S CERTIFICATE REGARDING DRUG-FREE WORKPLACE

This Drug-Free Workplace Certification form is required from all successful bidders pursuant to the requirements mandated by Government Code Section 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any State agency must certify that it will provide a drug-free workplace by doing certain specified acts. In addition, the Act provides that each contract or grant awarded by a State agency may be subject to suspension of payments or termination of the contract or grant, and the contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

Pursuant to Government Code Section 8355, every person or organization awarded a contract or grant from a State agency shall certify that it will provide a drug-free workplace by doing all of the following:

- a) publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance is prohibited in the person's or organization's workplace and specifying actions which will be taken against employees for violations of the prohibition;
- b) establishing a drug-free awareness program to inform employees about all of the following:
 - 1) the dangers of drug abuse in the workplace;
 - 2) the person's or organization's policy of maintaining a drug-free workplace;
 - 3) the availability of drug counseling, rehabilitation and employee-assistance programs;
 - 4) the penalties that may be imposed upon employees for drug abuse violations;
- c) requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required by subdivision (a) and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

I, the undersigned, agree to fulfill the terms and requirements of Government Code Section 8355 listed above and will publish a statement notifying employees concerning (a) the prohibition of controlled substance at the workplace, (b) establishing a drug-free awareness program, and requiring that each employee engaged in the performance of the contract be given a copy of the statement required by Section 8355 (a) and requiring that the employee agree to abide by the terms of that statement.

I also understand that if the DISTRICT determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of Section 8355, that the contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of Section 8350 et seq.

I acknowledge that I am aware of the provisions of Government Code Section 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

Date: _____

Proper Name of Contractor: _____

Signature of Authorized Person: _____

Print Name: _____

Title: _____

END OF DOCUMENT

**CERTIFICATE REGARDING ALCOHOLIC BEVERAGE AND TOBACCO-FREE
CAMPUS POLICY**

The Trade Contractor agrees that it will abide by and implement the District's Alcoholic Beverage and Tobacco-Free Campus Policy prohibits the use of alcoholic beverages, vaping and tobacco products, of any kind and at any time, on District-owned or leased buildings, on District property and in District vehicles.

I acknowledge that I am aware of the District's policy regarding alcoholic beverages, vaping and tobacco-free environments at District sites, including the Project site and hereby certify that I will adhere to the requirements of that policy and not permit any of my firm's employees, agents, subcontractors, or my firm's subcontractors' employees or agents to use tobacco and/or smoke on the Project site.

DATE: _____

Trade Contractor

By: _____
Signature

END OF DOCUMENT

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ARTICLE 1 DEFINITIONS

1.1 BASIC DEFINITIONS

NOTE: The following shall not be construed as a comprehensive list of all definitions in the Contract Documents and there may be other definitions set forth in the Contract Documents. Additionally, any references to any DSA forms, documents or requirements shall be construed to incorporate any updates, supplements, or additions. The Contractor shall be required to meet the latest DSA requirements applicable to the Project.

1.1.1 Action of the Governing Board is a vote of a majority of the District's Governing Board.

1.1.2 Act of God is defined as only including earthquakes in excess of 3.5 on the Richter Scale and Tidal waves as defined under Public Contract Code Section 7105.

1.1.3 Approval means written authorization through action of the Governing Board. The Governing board has delegated to the Assistant Superintendent the authority to approve certain modifications, Change Orders or Immediate Change Directives (Subject to the limits of the Delegation of Authority provided by the Board). In no case shall the Assistant Superintendent have authority to approve total Change Orders or Modifications to the Project exceeding 10% of the Contract Sum.

1.1.4 Architect means the architect, engineer, or other design professional engaged by the District to design and perform general observation of the Work of construction and interpret the Drawings, Specifications, Addenda and other Contract Documents for the Project. (See Article 4)

1.1.5 As-Builts are a set of Plans and Specifications maintained by the Trade Contractor clearly showing all changes, revisions, substitutions, field changes, final locations, and other significant features of the Project. The As-Builts shall be maintained continuously throughout the Work for the Project and is both a prerequisite to the issuance of Payment Application and a requirement for Contract Close-Out. (See Article 3.18)

1.1.6 Beneficial Occupancy is the point in time when a building or buildings are fit for occupancy is fit for occupancy and its intended use. Basic requirements are the building is safe, at or near Substantial Completion, and all fire/ life safety items are approved and operational. The fact that a building is occupied does not mean that the building is ready for Beneficial Occupancy if there are elements that are unsafe or if fire/ life safety items are not approved and operational. Taking occupancy on a structure that is under a fire watch is not considered Beneficial Occupancy. Further, taking of Beneficial Occupancy is not a point in time when retention is due unless the entire school has obtained a Certificate of Substantial Completion that meets the definition of 1.1.55.

1.1.6.1 Trade Contractors shall not treat Beneficial Occupancy as completion or Substantial Completion. Substantial Completion is only reached based on 1.1.55. Completion for Final Payment and Retention Payment are further addressed in Article 9.

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1.1.7 BIM stands for Building Information Modeling, which is an electronic modeling system that may be used to design, model and coordinate the Work of the Trade Contractors for the Project.

1.1.8 [NOT USED.]

1.1.9 Change Order (CO). A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), the Trade Contractor, and the Architect, stating their agreement upon (1) A description of a change in the Work, (2) The amount of the adjustment in the Contract Sum, if any; and (3) The extent of the adjustment in the Contract Time, if any. (See Article 7.2)

1.1.10 Change Order Request (COR). A COR is a written request supported by backup documentation prepared by the Trade Contractor requesting that the District and the Architect issue a CO based upon a proposed change, or a change that results in an adjustment in cost, time or both, or arising from an RFP, CCD or ICD. (See Article 7.6)

1.1.11 Claims. A Claim is a request for payment, supported by back-up documentation which includes, invoices time sheets, or other documents substantiating legitimacy or entitlement that is submitted during the Project or immediately following the Project made prior to the Final Retention Payment Application and prior to Final Completion of the Project. A "Claim" means a separate demand by the Trade Contractor for (1) time extension, (2) payment of money or damages arising from Work done by or on behalf of the Trade Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (3) and amount the payment of which is disputed by the District. (See Article 4.6)

1.1.12 Clash or Coordination Check is a Construction Manager generated report utilizing the BIM program and a process utilized by Construction Manager to address inconsistencies, areas for coordination, and identification of Trade Contractor Work that may need to be redirected, moved, or resequenced. CM may not use the entire Clash Check Report. They may select certain areas or items to review during Initial Trade Contractor Coordination Meetings. This coordination or resequencing is undertaken as part of the Project Baseline Schedule process and is primarily conducted during the early part of the Contract prior to the actual start of construction at Initial Trade Contractor Coordination meetings.

1.1.13 Close-Out means the process for Final Completion of the Project, but also includes the requirements for the DSA Certification that the Project is Complete (See DSA Certification Guide). (See Article 9.9)

1.1.14 Construction Change Document (CCD). A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A for work affecting structural, access or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no approval is required). Both CCD Category A and Category B shall be set forth in DSA Form 140 and submitted to DSA as required. (See Article 7.3)

1.1.15 Complete/ Completion/ Final Completion means that all Work in the Contract Documents is finished, the requirements of the Contract Documents have been met, the Project has been Closed Out, and all Work has ceased on the Project. This may also be referred to as Final Completion. In

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most cases, the recording of a Notice of Completion shall represent Completion of the Project. Beneficial Occupancy does not mean the Work is Complete.

1.1.16 Completion Date is the date when all Work for the Project shall be Substantially Complete and is the date assigned at the end of the Contract Time for the Project. (See Article 1.1.55)

1.1.17 Construction Manager (CM). The Construction Manager is a consultant to the District contracted to perform Project planning, scheduling, coordination, and management of the construction of the Project. The CM shall coordinate and revise Trade Contractor Baseline Schedules and prepare an overall Project Baseline Schedule that meets all Milestones and results in completion of the Project within the Contract Time. CM shall also monitoring the progress of the construction, review, monitor, and enforce the schedule, oversee the progress of Work, monitoring pay requests, facilitate communications with Trade Contractors and the Design Team, advise the District and its Board of Education on various aspects of the construction process, monitor the RFI, COR, CCD, ICD, RFP, Claims, Disputes and other Project related processes.

1.1.18 Contract or Agreement when the terms are used in these General Conditions shall be references to the Contract Documents as defined herein.

1.1.19 Contract Documents (sometimes referred to as Construction Documents) consist of the Agreement between District and Trade Contractor (hereinafter the Agreement or Contract), Conditions of the Contract (General, Supplementary and other Conditions), Trade Contractor Scope of Work, Drawings, Specifications, Addenda issued prior to bid, instructions to bidders, notice to bidders, and the requirements contained in the Bid Documents, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is a written amendment to the Contract signed by parties, a Change Order, a Construction Change Document, or a written order for a minor change in the Work issued by the Architect. The Contract Documents collectively form the Contract. The Contract represents the entire and integrated Agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a written Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Architect and Trade Contractor, between the District and any Subcontractor or Sub-subcontractor, or between any persons or entities other than the District and Trade Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

1.1.20 Contract Time is the time period specified in the Contract Documents in which the Project shall be completed. This is sometimes referred to a Contract Duration, or "time in which the Trade Contractor has to complete the Project". (See Article 8.1.1)

1.1.21 Contractor, District, and Architect are those mentioned as such in the Agreement. They are treated throughout the Contract Documents as if they are of singular number and neuter gender. Any reference to "Owner" shall mean "District" or Little Lake City School District.

1.1.22 Cure is the act of remedying a material failure to perform under the terms of the Contract Documents during the time provided to correct Trade Contractor's Default. Specific time periods are provided to Cure and Correct a Trade Contractor Default under Article 14 and for a Partial Default under Article 2.2 as well as elsewhere in the Contract Documents.

1.1.23 Days mean calendar days unless otherwise specifically stated.

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1.1.24 Default is a material breach of Contract. A Termination for Cause under Article 14 is a declaration of Default of the Contract and shall act as a demand upon the Surety to perform under the terms of the Performance Bond. Partial Defaults may also be tendered to the Surety at District's discretion. (See Article 2.2)

1.1.25 Design Team is the Architect, Engineers, and the CM. Although the CM is part of the Design Team, the CM shall not be construed as the Architect or Design Professional.

1.1.26 Dispute is a disagreement on terms or conditions of the Project where the Trade Contractor's opinion of the Project, Payment, Change Order or Request for Proposal differs from that of the District or Architect. A Dispute only rises to the level of a Claim once the Dispute is assembled with back-up documentation and presented for evaluation. (See Article 4.6)

1.1.27 District Representative is the person designated by the District to represent the District during the Construction for the Project. This District Representative may have the delegated authority as further defined in Article 1.1.3. This District Representative may be an employee of the District, and may also include CMs who shall have the authorities as set forth in Article 1.1.3. The CM is responsible to work with Trade Contractors and coordinate Baseline Schedules, Update Schedules, and work with Trade Contractors to deliver a complete Project within the Contract Time. When a CM is assisting the District, the Trade Contractor, Architect, and Inspector shall have a primary contact with the District's CM who will advise the District.

1.1.28 Drawings/Plans are graphic and pictorial portions of the Contract Documents prepared for the Project and approved changes thereto, wherever located and whenever issued, showing the design, location, and scope of the Work, generally including plans, elevations, sections, details, schedules, and diagrams as drawn or approved by the Architect. Sometimes Drawings will also be included in Addenda, Change Orders, and Specifications.

1.1.29 DSA is the Division of State Architect. DSA is the agency that provides design and construction oversight for K-12 Schools, Community Colleges, and State Funded Charter School Projects. DSA is the responsible agency for this Project and Trade Contractor has submitted a bid for the Project since Trade Contractor is familiar with Trade Contractor's responsibilities under the DSA requirements more thoroughly set forth at Title 24 of the California Code of Regulations. Trade Contractor agrees to abide by the jurisdiction of DSA and shall construct the Project to conform with the approved Plans, Specifications, Addenda, and Change Orders (inclusive of approved CCD's and ICD's issued by the District pending CCD approval). See DSA website at <http://www.dgs.ca.gov/dsa>.

1.1.30 Emergency shall be defined as a sudden, unexpected occurrence, involving a clear and imminent threat to the continuation of school classes, a critical path delay that will result in not being able to occupy the school when students arrive to use the facility, danger from the facility or from outside the facility, Act of God, or other action which requires immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services.

1.1.31 Float the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. (See Article 8.1.5)

1.1.32 [NOT USED.]

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1.1.33 Immediate Change Directive (ICD) is a written order prepared by the Architect and signed by the District and the Architect, directing a change in the Work where the Work must proceed immediately and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. (See Article 7.3)

1.1.34 Initial Trade Contractor Coordination Meetings. There shall be a series of Initial Coordination Meetings to establish protocols, Trade Contractor Coordination Requirements, Trade Contractor Baseline Durations, and to undertake BIM Clash Check Detection and Conflict Resolution Analysis and resolution. Participation in all Initial Coordination Meetings is mandatory.

1.1.35 Inspector of Record (IOR)/ Project Inspector (PI)/ Inspector is the individual retained by the District in accordance with Title 24 of the California Code of Regulations and who will be assigned to the Project

1.1.36 Notice of Non-Compliance (DSA Form 154) is a document issued by the Inspector if there is a deviation from the DSA approved Plans, Specifications, and Change Orders. (See Article 7.1.2)

1.1.37 Notice to Proceed (NTP) is a written notice provided by the District after bids are awarded and contractually required paperwork and submissions are completed noticing Trade Contractors that Work may proceed. The NTP represents the formal commencement of Work.

1.1.38 Outline Schedule is a general representation of the Schedule for the Work of the Project utilized to illustrate anticipated Trade Contractor durations, Phasing, Milestones, and the anticipated general sequencing necessary to complete the Project within the Contract Time.

1.1.39 Payment Application or Certificate of Payment is the Trade Contractor's certified representation of the actual level of Work performed on the Project. Payment Applications are sometimes also called "Certificate of Payment", "Request for Payment", "Payment Application", or similar terms and shall follow the Schedule of Values that are approved by the Architect, Inspector and District. See Article 9.3.

1.1.40 Project is the complete construction of the Work performed in accordance with the Contract Documents.

1.1.41 Project Manual is the volume assembled for the Work which may include, without limitation, the bidding requirements, sample forms, Conditions of the Contract, and Specifications.

1.1.42 Provide shall include "provide complete in place," that is "furnish and install complete."

1.1.43 Punch List/ Punch Item/ Incomplete Punch Item is a list of minor repair items, prepared after the issuance of a Certificate of Substantial Completion, by the Inspector and Architect of Work required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be Closed Out. Issuance of the Retention Payment is dependent of the proper completion of the Punch List. (See Article 9.9)

1.1.43.1 *Trade Contractor's List of Punch Items* is a list of minor repair items the Trade Contractor submits when the Trade Contractor considers the Work Substantially Complete. Submission of this List of Incomplete Punch Items is the Trade Contractor's representation that the Project is Substantially Complete. (See Article 9.9.1)

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1.1.44 Request for Information (RFI) is a written request prepared by the Trade Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which the Trade Contractor believes is not clearly shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions. (See Article 7.4)

1.1.45 Request for Proposal (RFP) is a written request prepared by the Architect (and/or CM) requesting the Trade Contractor to submit to an estimate of the effect of a proposed change on the Contract Price and (if applicable) the Contract Time. (See Article 7.5)

1.1.46 Safety Orders are those issued by any city, county, state or federal agency having jurisdiction over the Project.

1.1.47 Schedule is the Trade Contractor's view of the practical way in which the Work will be accomplished within the Contract Time based on the Outline Schedule provided in the Contract Documents. In this Agreement, the Trade Contractor will prepare and provide a Trade Contractor Baseline Schedule to address Milestones and timing of the Work of Trade Contractor based on the Outline Schedule provided in the Contract Documents. This Trade Contractor Baseline Schedule will be evaluated by CM and incorporated into a Project Baseline Schedule which governs the Trade Contractor's Work to be completed during the Contract Time and shall include all items listed under Article 8.3.2.12. See Article 8 of the General Conditions.

1.1.48 Schedule of Values is a detailed breakdown of the Contract Price for each Project, building, Phase of Work or Site as determined by the District. This Schedule of Values shall adequately detail the price for the Work so Progress Payments Applications can be meaningfully reviewed by the Inspector, Architect of Record, Engineer of Record, and District. (See Article 9.2.2)

1.1.49 Separate Contracts are Contracts that the District may have with other Contractors, vendors, suppliers, or entities to perform Work on the Project. This may include, but is not limited to Multi-Prime Trade Contractors, furniture installers, testing agencies, clean-up contractors, or network or low voltage contractors. Trade Contractor shall plan for certain other contractors that may also be working on the Project site and address these other contractors in Trade Contractor's Schedule. (See Article 6)

1.1.50 Site refers to the grounds of the Project as defined in the Contract Documents and such adjacent lands as may be directly affected by the performance of the Work.

1.1.51 Specifications are that portion of the Contract Documents consisting of the written requirements for material, equipment, construction systems, instructions, quality assurance standards, workmanship, and performance of related services.

1.1.52 Standards, Rules, and Regulations referred to are recognized printed standards and shall be considered as one and a part of these Specifications within limits specified. Federal, state and local regulations are incorporated into the Contract Documents by reference.

1.1.53 Stop Work Order, or an Order to Comply, is issued when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations, and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code Section 17307.5(b) and Education Code Section 81133.5, the District shall not be held

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liable in any action filed against the District for any delays caused by compliance with the Stop Work Order

1.1.54 Subcontractor, as used herein, includes those having direct or indirect contracts with Trade Contractor and ones who furnished labor, material or services for a special design according to Plans, Drawings, and Specifications of this Work.

1.1.55 Substantial Completion/ Substantially Complete(d) is not reached unless and until each of the following four (4) conditions have been met: (1) all contractually required items have been installed with the exception of only minor and Incomplete Punch List Items (See Article 9.9.1.2); (2) All Fire/Life Safety Systems have been installed, and are working and signed off on the DSA Form 152 Inspection Card, and all building systems including mechanical, electrical and plumbing are all functioning; (3) all other items DSA Form 152 Inspection Card for the Project have been approved and signed off; and (4) the Project is fit for occupancy and its intended use. For the purposes of this Contract, any references to Completion Dates mean Substantial Completion Date.

1.1.56 Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by the Trade Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of Article 3.10.

1.1.57 Supplementary Conditions/ Supplementary General Conditions/ Special Conditions are terms that are sometimes used interchangeably and refer to any additional requirements or changes to the General Conditions or other documents as noted.

1.1.58 Surety is the person, firm, or corporation that executes as a bid bond, Payment bond or Performance Bond guarantor on the Trade Contractor's Bid, Trade Contractor's Performance on the Contract and Payment of the Trade Contractor's Subcontractors, material suppliers, vendors and labor on the Project. The Surety is bound to the same extent as the Trade Contractor is bound once a Default occurs. A default includes a Termination for Substantial Failure to Perform under Article 14, but also includes any breach of Contract and is subject to the requirements and responsibilities as set forth in the Performance Bond.

1.1.59 Trade Contractor is one of the multiple prime Trade Contractors that perform work under the direction of a CM. The Trade Contractors as a whole perform various segments of the Work so the entire Work of the Project may be completed. Each Trade Contractors Work is dependent on other Trade Contractor's Work and shall be assembled as a whole so the Project may be delivered ad a complete operational Project fit for occupancy, and utilized for its intended purpose and so the Project may be completed in the Contract Time.

1.1.60 [NOT USED.]

1.1.61 Work shall include all labor, materials, services and equipment necessary for the Trade Contractor to fulfill all of its obligations pursuant to the Contract Documents. It shall include the initial obligation of any Trade Contractor or its Subcontractor who performs any portion of the Work, to visit the Site of the proposed Work (a continuing obligation after the commencement of the Work), to fully acquaint and familiarize itself with the conditions as they exist and the character of the operations to be carried out under the Contract Documents, and make such investigation as it may see fit so that it shall fully understand the facilities, physical conditions, and restrictions attending the Work under the Contract Documents. Each such Trade Contractor and its Subcontractor shall also thoroughly examine and

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become familiar with the Drawings, Specifications, and associated Contract Documents and bid documents before preparing and submitting any bid.

1.1.62 Workers include laborers, workers, and mechanics.

1.2 EXECUTION, CORRELATION AND INTENT

1.2.1 Correlation and Intent

1.2.1.1 *Documents Complementary and Inclusive.* The Contract Documents are complementary and are intended to include all items required for the proper execution and completion of the Work. All Contract Documents identified in Trade Contractor Scope of Work and related to or required to provide a completed assembly or Project assembly form the Trade Contractor's Contract with the District. Trade Contract Work includes any item of Work mentioned or referenced in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be provided by Trade Contractor as if shown or mentioned in both. Trade Contractor is bound to provide the Work complete and is under a legal duty to carefully study Plans and schedule operations well ahead of time and identify inconsistencies with the Plans and Specifications and call such inconsistencies to the attention of the Architect or Registered Engineer through the Inspector under Section 4-343(b) of Title 24.

1.2.1.2 *Work to be Complete.* Trade Contractor has thoroughly studied the Contract Documents and understands that the District contracted with Trade Contractor to provide a complete Scope of Work for the Project which means complete systems and buildings. The entire set of Contract Documents shows a complete Project and Trade Contractor agrees that there are multiple disciplines putting together a set of Contract Documents. Thus, if portions of a system are shown on some Drawings and not others, this does not mean the Trade Contractor is to only provide part of a system. For example, if an air conditioning unit is shown on the mechanical Drawings, the plumbing for the air conditioning is shown on another Drawing, and the electrical shown on the electrical Drawings, the Trade Contractor is to provide a complete and working air conditioning system unless specifically noted otherwise on Scope of Work. If there are any questions, Trade Contractor is to submit a RFI on the prescribed RFI form before excluding any item from its bid, and a response will be provided and included as an Addendum. Failure to request clarification shall be conclusive that Trade Contractor intended to provide a complete system or assembly. The only time when an item is supplied incomplete is if the system is shown specifically as incomplete since others will be completing the system. Work includes, but is not limited to materials, workmanship, and manufacture of fabrication of components for the Project.

1.2.1.3 *Coverage of the Drawings and Specifications.* The Trade Contractor Scope of Work in conjunction with the Drawings and Specifications generally describe the Work to be performed by Trade Contractor. Generally, the Specifications describe Work which cannot be readily indicated on the Drawings and indicate types, qualities, and methods of installation of the various materials and equipment required for the Work. It is not intended to mention every item of Work in the Specifications, which can be adequately shown on the Drawings, or to show on the Drawings all items of Work described or required by the Specifications even if they are of such nature that they could have been shown. All materials or labor for Work, which is shown on either the Drawings or the Specifications (or is reasonably inferable therefrom as being necessary to complete the Work), shall be provided by the Trade Contractor. The Trade Contractor is responsible for the whole Project as contractually set forth as the Contract Documents. It is intended that the Work be of sound, quality construction, and the Trade Contractor shall be responsible for the inclusion of adequate amounts to cover installation of all items indicated, described, or implied in the portion of the Work to be performed by them.

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1.2.1.4 *Conflicts.* In the event there is a discrepancy between the various Contract Documents, it is intended that the more stringent, higher quality and greater quantity of Work shall apply.

1.2.1.5 *Conformance with Laws.* Each and every provision of law required by law to be inserted in this Contract shall be deemed to be inserted herein, and the Contract shall be read and enforced as though it were included herein, even if through mistake or otherwise any such provision is not inserted, or is not correctly inserted. Any references to codes, statutes, regulations, governmental forms or documents including documents issued by DSA shall include any subsequent revisions or updates thereto.

Before commencing any portion of the Work, Trade Contractor shall check and review the Drawings and Specifications for such portion for conformance and compliance with all laws, ordinances, codes, rules and regulations of all governmental authorities and public and municipal utilities affecting the construction and operation of the physical plant of the Project, all quasi-governmental and other regulations affecting the construction and operation of the physical plant of the Project, and other special requirements, if any, designated in the Contract Documents. Such checking shall include review of Title 24 of the California Code of Regulations, California Building Code, local utility, local water connection, local grading and all other applicable agencies. In the event Trade Contractor observes any violation of any law, ordinance, code, rule or regulation, or inconsistency with the Contract Documents, Trade Contractor shall, within five (5) days, notify the Inspector, Architect and District in writing of same and shall ensure that any such violation or inconsistency shall be corrected in the manner provided hereunder prior to the construction of that portion of the Project. (See Title 24 Section 4-343)

The Trade Contractor shall bear all expenses of correcting Work done contrary to said laws, ordinances, rules, and regulations if the Trade Contractor performed same (1) without first consulting the Architect for further instructions regarding said Work or (2) disregarded the Architect's instructions regarding said Work.

1.2.1.6 *Ambiguity and Inconsistency.* Before commencing any portion of the Work, Trade Contractor shall carefully examine all Drawings and Specifications and other information given to Trade Contractor as to materials and methods of construction and other Project requirements. Prior to commencing any portion of the Work, Trade Contractor shall notify Architect and District in writing of any perceived or alleged error, inconsistency, conflict, ambiguity, or lack of detail or explanation in the Drawings and Specifications in the manner provided herein. If the Trade Contractor or its Subcontractors, material or equipment suppliers, or any of their officers, agents, and employees performs, permits, or causes the performance of any Work under the Contract Documents, which it knows or should have known to be in error, inconsistent, or ambiguous, or not sufficiently detailed or explained, Trade Contractor shall bear any and all costs arising therefrom including, without limitation, the cost of correction thereof without increase or adjustment to the Contract Price or the time for performance. Trade Contractor shall maintain an adequate inspection system and perform personal observations and review work and pre-plan the Project to ensure the Work performed under the Contract conforms to Contract requirements. Trade Contractor shall maintain records of such review and observation to ensure strict compliance with the terms of the Contract.

1.2.1.7 *Typical Parts and Sections.* Whenever typical parts or sections of the Work are completely detailed on the Drawings, and other parts or sections which are of the same construction are shown in outline only, the complete or more detailed shall apply to the Work which is shown in outline.

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1.2.1.8 *Dimensions.* Dimensions of Work shall not be determined by scale or rule. Figured dimensions shall be followed at all times. If figured dimensions are lacking on Drawings, Architect shall supply them on request. The Architect's decisions on matters relating to aesthetic effect will be final.

1.2.2 Addenda and Deferred Approvals

1.2.2.1 *Addenda* are the changes in Specifications, Drawings, Contract Documents, and Plans which have been authorized in writing by the District or Architect, and which alter, explain, or clarify the Contract Documents. Addenda shall govern over all other Contract Documents. Subsequent addenda issued shall govern over prior addenda unless otherwise specified in the addenda.

1.2.2.2 *Deferred Approvals.* Deferred Approvals are Submittals that are reviewed by the Architect (or Engineer of Record) and submitted to DSA for approval based on thorough detailing of manufacturer and Project specific design. (See Article 3.9.1 and 3.9.3) The Deferred Approval item cannot be fully detailed on the originally approved Drawings or Specifications because of variations in product design and manufacture. Contract Documents which require Deferred Approval items are meant to be for illustration purposes only. Approval of Plans for such a portion of the Work may be deferred until the material suppliers and Subcontractors are selected. All Deferred Approvals are noted in the Plans and Specifications. Trade Contractor is responsible for all Deferred Approval requirements set forth in the Contract Documents. Trade Contractor is responsible to comply with all laws, building codes, Title 24 and regulations necessary to obtain all necessary approvals, including those required from the Division of the State Architect ("DSA") and the State Fire Marshall. Trade Contractor shall not be granted an extension of time for failure to plan, schedule for and obtain necessary approvals. Trade Contractor shall Schedule all Deferred Approval items in the Project Baseline Schedule and Schedule Updates under Article 3.9.6 and 8.3.2

1.2.3 Specification Interpretation

1.2.3.1 *Titles.* The Specifications are separated into titled sections for convenience only and not to dictate or determine the trade or craft involved.

1.2.3.2 *As Shown, Etc.* Where "as shown," "as indicated," "as detailed," or words of similar import are used, reference is made to the Drawings accompanying the Specifications unless otherwise stated. Where "as directed," "as required," "as permitted," "as authorized," "as accepted," "as selected," or words of similar import are used, the direction, requirement, permission, authorization, approval, acceptance, or selection by Architect is intended unless otherwise stated.

1.2.3.3 *General Conditions.* The General Conditions and Supplementary General Conditions are a part of the Contract Documents which further defines and refines the Contract entered between the Trade Contractor and District.

1.2.3.4 *Abbreviations.* In the interest of brevity, the Specifications are written in an abbreviated form and may not include complete sentences. Omission of words or phrases such as "Contractor shall," "shall be," etc., are intentional. Nevertheless, the requirements of the Specifications are mandatory. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the Drawings. In the interest of brevity, the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

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1.2.3.5 *Plural.* Words in the singular shall include the plural whenever applicable or the context so indicates.

1.2.3.6 *Metric.* The Specifications may indicate metric units of measurement as a supplement to U.S. customary units. When indicated thus: 1” (25 mm), the U. S. customary unit is specific, and the metric unit is nonspecific. When not shown with parentheses, the unit is specific. The metric units correspond to the “International System of Units” (SI) and generally follow ASTM E 380, “Standard for Metric Practice.”

1.2.3.7 *Standard Specifications.* Any reference to standard specifications of any society, institute, association, or governmental authority is a reference to the organization’s standard specifications, which are in effect at the date of the Trade Contractor’s proposal unless directed otherwise. If applicable specifications are revised prior to completion of any part of the Work, the Trade Contractor may, if acceptable to Architect, perform such Work in accordance with the revised specifications. The standard specifications, except as modified in the Specifications for the Project, shall have full force and effect as though printed in the Specifications. Architect will furnish, upon request, information as to how copies of the standard specifications referred to may be obtained.

1.2.4 Rules of Document Interpretation

1.2.4.1 In the event of conflict within the Drawings, the following rules shall apply:

- a. General Notes, when identified as such, shall be incorporated into other portions of Drawings.
- b. Schedules, when identified as such, are complementary with other notes and other portions of Drawings including those identified as General Notes.
- c. Larger scale Drawings shall take precedence over smaller scale Drawings.
- d. At no time shall the Trade Contractor base construction on scaled Drawings.

1.2.4.2 Specifications shall govern as to materials, workmanship, and installation procedures.

1.2.4.3 If Trade Contractor observes that Drawings and Specifications are in conflict, Trade Contractor shall, prior to commencing work, notify the Architect in writing for the purposes of obtaining an interpretation of the Contact Documents.

1.2.4.4 In the case of conflict or inconsistencies, the order of precedence shall be as follows:

- a. General Conditions take precedence over Drawings and Specifications.
- b. Supplemental Conditions take precedence over General Conditions.

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- c. The Agreement Form shall take precedence over the Supplemental Conditions.
- d. In the case of disagreement or conflict between or within Specifications, and Drawings, the more stringent, higher quality, and greater quantity of Work shall apply.
- e. Addenda shall take precedence over Drawings and Specifications.
- f. General Conditions shall take precedence over Addenda.
- g. Drawings and Specifications take precedence over the Soils Report.

1.3 OWNERSHIP AND USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

The Drawings, Specifications, and other Contract Documents for the Project are the property of the District and/or Architect pursuant Contract requirements between the District and Architect. The Trade Contractor may retain one Contract record set. Neither the Trade Contractor nor any Subcontractor, or material or equipment supplier shall own or claim a Copyright in the Drawings, Specifications, and other documents prepared by the Architect. All copies except the Trade Contractor's record set, shall be returned or properly accounted for upon completion of the Work. The Drawings, Specifications, and other documents prepared by the Architect, and copies thereof furnished to Trade Contractor are not to be used by Trade Contractor or any Subcontractor, Sub-subcontractor, or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work. The District and/or Architect hereby grants the Trade Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings, Specifications, and other documents prepared for the Project in the execution of their Work under the Contract Documents. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the District's property interest or other reserved right.

ARTICLE 2 DISTRICT

2.1 INFORMATION AND SERVICES REQUIRED OF THE DISTRICT

2.1.1 Site Survey

The District will furnish, at its expense, a legal description of the Site and a land survey showing the boundaries of the Site. Trade Contractor shall be responsible for all surveys regarding location of construction, grading and site work.

2.1.2 Soils

When required by the scope of the Project, the District will furnish, at its expense, the services of geotechnical engineers or consultants when reasonably required and deemed necessary by the Architect or as required by local or state codes. Such services, with written reports and appropriate written professional recommendations, may include test boring, test pits, soil bearing values, percolation tests, air and water pollution tests, and ground corrosion and resistivity tests, including necessary operations for determining subsoil, air, and water conditions.

2.1.3 Soil Report part of the Contract Documents: Trade Contractor Reliance

A soils investigation report has been obtained from test holes at the Site, and such report is incorporated into this Contract and made available for the Trade Contractor's use in preparing its bid and Work under this Contract. Where the Plans and Specifications are more specific and provide more significant structure, systems, reinforcing, thicknesses, or construction methods, the Drawings shall control over the soils report. The soils report is available at the Architect's office for review and it is Trade Contractor's responsibility to ensure that Trade Contractor has reviewed the soils investigation report. Any information obtained from such report or any other information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only. If, during the course of Work under this Contract, Trade Contractor encounters subsurface conditions which differ materially from those indicated in the soils report, then Trade Contractor shall notify the District within five (5) calendar days of discovery of the condition, and changes to the Contract Price may be made in accordance with Article 7 entitled "Changes in the Work." Trade Contractor agrees that no claim against District will be made by Trade Contractor for damages and hereby waives any rights to damages in the event the Trade Contractor fails to notify District within the five-day period mentioned above.

WARNING: DISTRICT DOES NOT WARRANT THE SOILS AT THE PROJECT SITE. TRADE CONTRACTOR HAS REVIEWED AND IS FAMILIAR WITH THE REQUIREMENTS OF THE SOILS INVESTIGATION REPORT. TRADE CONTRACTOR UNDERSTANDS THAT PLANS, DRAWINGS AND SPECIFICATIONS SUPERSEDE THE SOILS REPORT IF THERE ARE CONFLICTS. FURTHER, IN ADDITION TO THE INFORMATION IN THE SOILS REPORT, TRADE CONTRACTOR HAS CONDUCTED AN INDEPENDENT INVESTIGATION OF THE PROJECT SITE AND THE SOILS CONDITIONS OF THE SITE. DISTRICT DOES NOT WARRANT THE SOILS CONDITIONS OF THE SITE AND TRADE CONTRACTOR IS FULLY RESPONSIBLE TO ASCERTAIN SITE

CONDITIONS FOR THE PURPOSES OF DETERMINING CONSTRUCTION MEANS AND METHODS PRIOR TO COMMENCING CONSTRUCTION.

2.1.4 Utilities

2.1.4.1 *Location of Point of Connection.* The locations shown for the point of connection are approximate. It shall be the responsibility of the Trade Contractor to determine the exact location of all service connections.

2.1.4.2 *Regional Notification Center.* Trade Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) business days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. See Government Code Section 4216.3. No excavation shall be commenced and carried out by Trade Contractor unless such an inquiry identification number has been assigned to Trade Contractor or any Subcontractor of Trade Contractor and the District has been given the identification number by Trade Contractor. Any damages arising from failure to make appropriate regional notification shall be at the sole risk of Trade Contractor. Trade Contractor shall solely be responsible for any fines, penalties or damages for violation of this Article and Government Code Section 4216.6 or 4216.7. Any delays caused by failure to make appropriate regional notification shall be at the sole risk of Trade Contractor and shall not be considered for extension of time pursuant to Article 8.4.

2.1.4.3 *Utilities - Removal and Restoration.* The District has endeavored to determine the existence of utilities at the Site of the Work from the records of the District of known utilities in the vicinity of the Work. The positions of these utilities as derived from such records are shown in the Contract Documents. Thus, the locations of the main or trunklines located on the Drawings are approximate locations and not exact.

No excavations were made to verify the locations shown for underground utilities. Other than the main or trunkline, which the District has endeavored to locate on the Plans, service connections or laterals to these utilities may not be shown on the Plans. It shall be the responsibility of Trade Contractor to determine the exact location of all service connections. Trade Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of service connections, prior to commencing work which could result in damage to such utilities. Trade Contractor shall immediately notify the District's representative as to any utility main or trunkline discovered by Trade Contractor in a different position than provided by the Regional Notification Center. With respect to main or trunklines, Trade Contractor is to immediately notify District if the location is substantially different than as shown in the Contract Documents.

Trade Contractor shall coordinate its Work with all utilities, including, but not limited to electricity, water, gas and telephone and meet with said utilities prior to the start of any work. Trade Contractor shall show timing of all utility coordination activities under the Scheduling requirements of Article 8.

2.1.4.4 *Other Utilities.* In case it should be necessary to remove, relocate, or temporarily maintain a utility because of interference with the Work, the work on the utility shall be performed and paid for as follows:

When it is necessary to remove, relocate or temporarily maintain a service connection, the cost of which is not required to be borne by the owner of the service connection, Trade Contractor shall bear all expenses incidental to the work on the service connection. The work on the service connection shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the service connection has the option of doing such work with his own forces or permitting the work to be done by Trade Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is in the position shown on the Plans, the cost of which is not required to be borne by the owner thereof, Trade Contractor shall bear all expenses incidental to the work on the utility. The work on the utility shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the utility has the option of doing such work with his own forces or permitting the work to be done by Trade Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is not shown on the Plans or is in a position different from that shown on the Plans and were it in the position shown on the Plans would not need to be removed, relocated, or temporarily maintained, and the cost of which is not required to be borne by the owner thereof, the District will make arrangements with the owner of the utility for such work to be done at no cost to Trade Contractor, or will require Trade Contractor to do such work in accordance with Article 7 or will make changes in the alignment and grade of the Work to obviate the necessity to remove, relocate, or temporarily maintain the utility. Changes in alignment and grade will be ordered in accordance with Article 7 herein.

No representations are made that the obligations to move or temporarily maintain any utility and to pay the cost thereof is or is not required to be borne by the owner of such utility, and it shall be the responsibility of Trade Contractor to investigate to find out whether said cost is required to be borne by the owner of the utility.

The right is reserved to governmental agencies and to owners of utilities to enter at any time upon any street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the Work and for the purpose of maintaining and making repairs to their property.

2.1.5 Existing Utility Lines; Removal, Relocation

2.1.5.1 *Main or Trunkline Facilities.* If Trade Contractor, while performing the Contract, discovers utility facilities not identified in the Contract Documents, Trade Contractor shall notify the District and utility in writing prior to commencing work.

The owner of the public utility shall have the sole discretion to perform repairs or relocation work or permit Trade Contractor to do such repairs or relocation work at a reasonable price.

Trade Contractor shall exercise reasonable care and shall be compensated by the District for the actual verified field costs of locating, and removing, relocating, protecting or temporarily maintaining such main or trunkline utility facilities located in a substantially different location than in the Plans and Specifications, and for equipment in use on the Project necessarily idled during such work. This Work shall be performed in accordance with Article 7 of these General Conditions.

2.1.5.2 *Assessment.* Nothing in these subparagraphs shall be deemed to require the District to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the Site can be inferred from the presence of other visible facilities, such as buildings, or

meter junction boxes on or adjacent to the Site and could be inferred from the Main or Trunkline shown on the Drawings.

2.1.5.3 *Notification.* If Trade Contractor, while performing Work under this Contract, discovers utility facilities not identified by the District in the Contract Documents. Trade Contractor shall, within five (5) days, notify the District and the utility in writing. If Trade Contractor fails to notify the District within forty eight hours after discovery of any utility facilities not identified by District in the Contract Documents, Trade Contractor waives all rights to be compensated for any extra Work or damages resulting from such discovered utilities.

2.1.6 Easements

District shall secure and pay for easements for permanent structures or permanent changes in existing facilities, if any, unless otherwise specified in the Contract Documents.

2.2 DISTRICT'S RIGHT TO CARRY OUT THE WORK DUE TO PARTIAL DEFAULT IN A SPECIFIC SEGREGATED AREA OF WORK (TWO (2) BUSINESS DAY NOTICE TO CURE AND CORRECT)

If Trade Contractor Defaults or neglects to carry out the Work in accordance with the Contract Documents, the District may provide a two (2) business day written notice to cure (a shorter period of time in the case of Emergency or a critical path delay as defined in Article 2.2.1) Trade Contractor's Partial Default in a specific segregated area of work. The District's right to issue a Partial Default of the Trade Contractor's Work and take over that segregated area of Work includes, but is not limited to:

1. Failure to supply adequate workers on the entire Project or any part thereof;
2. Failure to supply a sufficient quantity of materials;
3. Failure to perform any provision of this Trade Contract;
4. Failure to comply with safety requirements, or due to Trade Contractor creation of an unsafe condition;
5. Cases of bona fide emergency;
6. Failure to order materials in a timely manner;
7. Failure to prepare Deferred Approval items or Shop Drawings in a timely manner;
8. Failure to comply with submission of Trade Contractor's Baseline or Update Schedule, failure to comply with Project Baseline Schedule or Update Schedule, meet critical Milestones which may result in a delay to the critical path, or Delay the Contract Time;
9. Failure to comply with the Subletting and Subcontracting Fair Practices, Public Contract Code Section 4100, et seq.
10. Failure to meet the requirements of the Americans with Disabilities Act;
11. Failure to complete Punch List work;

12. Failure to proceed on an Immediate Change Directive
13. Failure to correct a Notice of Deviation

If during the two (2) business day period, the Trade Contractor fails to Cure and correct the deficiency noted in the notice of Partial Default with diligence and promptness, the District may correct such deficiencies without prejudice to other remedies the District may have, including a Termination for Cause as set forth in Article 14. If there are inadequate funds remaining the Project balance or in the Retention Escrow to address at least 150% of the costs set forth in the Article 2.2 notice, the District may copy the Surety on the written notice of Partial Default. If a notice to the Surety is provided, except in the cases of Emergency or critical path delay, the Surety has the option to take over and complete the Work described in the written notice if Surety personally delivers notice to District that it intends to perform such work. In the case where written notice has been provided, the District shall allow Surety seven (7) days to perform the Work.

2.2.1 Service of Notice of Partial Default with Right to Cure

A written notice of Partial Default and Right to Cure under Article 2.2 (“Article 2.2 Notice” or “Notice of Partial Default”) shall be served by facsimile (with a copy provided by e-mail to the e-mail address provided on the Bid submitted and copied to the Project Superintendent).

2.2.2 Shortened Time for Partial Default in the Case of Emergencies.

In an Emergency situation, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies by providing service of written notice of Emergency requiring a shortened time for Partial Default specifying the time given to Cure, if any.

2.2.3 Shortened Time for Partial Default in the Case of Critical Path Delay

In the case of critical path delay, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies providing service of written notice of critical path delay to the Trade Contractor with a specific description of the critical path delay items noting the line item or area of Work that is on the critical path and prescribe the length of shortened time to cure, if any.

2.2.4 Written Notice of Partial Default to be Deducted by Deductive Change Order

The District shall have the right to determine the reasonable value of the Article 2.2 Partial Default Work, or if there is an actual value for the Work, shall use that value and issue a Deductive Change Orders under Article 7.7.4.

**ARTICLE 3
THE TRADE CONTRACTOR**

3.1 SUPERVISION AND CONSTRUCTION PROCEDURES

3.1.1 Trade Contractor

The Trade Contractor shall continually supervise and direct the Work using the Trade Contractor's best skill and attention. The Trade Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures; and shall coordinate all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. Trade Contractor shall not perform the Work without utilizing the Contract Documents or, where required, approved Submittals, Shop Drawings, or samples for any such portion of the Work. If any of the Work is performed by contractors retained directly by the District, Trade Contractor shall be responsible for the coordination and sequencing of the work of those other contractors so as to avoid any impact on the Project Schedule pursuant to the requirements of Article 6 and Article 8. Specific duties of the Trade Contractor shall include those set out in Section 43 of Title 21 of the California Code of Regulations and Section 4-343 of Title 24 of the California Code of Regulations. These duties include, but are not limited to the following:

- a. *Responsibilities.* It is the duty of Trade Contractor to complete the Work covered by his or her Contract in accordance with the approved Plans and Specifications. Trade Contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of their duties.
- b. *Performance of the Work.* Trade Contractor shall carefully study the approved Plans and Specifications and shall plan its schedule of operations well ahead of time. If at any time it is discovered that work is being done which is not in accordance with the approved Plans and Specifications, Trade Contractor shall correct the Work immediately.

3.1.2 Trade Contractor Responsibility to Study the Plans and Specifications and Plan for Coordination with Other Trade Contractors

All inconsistencies or timing or sequences which appear to be in error in the Plans and Specifications shall promptly be called to the attention of the Architect or, Engineer, for interpretation or correction. Local conditions which may affect the structure shall be brought to the Architect's attention at once. In no case, shall the instruction of the Architect be construed to cause work to be done which is not in conformity with the approved Plans, Specifications, Change Orders, Construction Change Documents, and as required by law. (See Title 24 Section 4-343). Trade Contractor shall also establish likely conflicts with the Work of other Trade Contractors through careful pre-planning of the Work set forth in the Scope of Work. If any Work is dependent on other Trades, Trade Contractor shall identify the coordination required and address in Trade Contractor Meetings and directly with other Trade Contractor. All Coordination with other Trades shall be identified in the Trade Contractor Baseline Schedule and in Trade Contractor Schedule Updates.

3.1.2.1 BIM Conflict Resolution [If BIM is utilized]. Trade Contractors shall review and address all Clash Detection reports provided for the Trade Contractor's Scope of Work during the Initial Coordination Construction Meetings. Trade Contractor is under an obligation to work through identified Clash Detection or else Trade Contractor waives all rights to any consequential damages that may arise from failure to address Clash or Coordination issues identified prior to the start of Trade Contractor's Scope of Work. Waiver of consequential damages shall include the waiver of delays caused

by failure to address conflict or clashes in the Trade Contractor's Work specifically identified and disruption, acceleration or additional costs other than for the actual cost of the additional Change Order Work itself. Further, Trade Contractor shall remain responsible for all consequential damages from other Trade Contractors for Trade Contractor's failure to address Clash Check detection or coordination issues identified by CM prior to the start of Trade Contractor's Scope of Work that Trade Contractor fails to address, make revisions, or seek COR's immediately following identification of the Coordination issue or Clash Check that has been identified.

3.1.3 All Work Under the Direction of Inspector

Pursuant to Title 24 requirements, Trade Contractor shall not carry on Work except with the knowledge of the Inspector. (See Title 24 generally) All notifications to the Inspector shall also be copied to the CM.

3.1.4 Trade Contractor to Establish Timing and Protocol with Inspector

Trade Contractors shall work together and with CM to establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. DSA requirements under PR 13-01 specifically gives the Special Inspector fourteen (14) days to post to the DSA website. Trade Contractor is responsible for delays and for failure to plan.

For some Projects, there may be a need to incrementally install certain assemblies. It is up to Trade Contractor to identify areas and assemblies that may be constructed incrementally. Trade Contractor must identify and establish incremental areas of construction, determine other Trade Contractors that are required for the incremental areas and establish protocols with Inspector for DSA 152 approvals so they may be presented to DSA. See PR 13-01 item 1.17 for further discussion.

3.1.5 Verified Reports

The Trade Contractor shall make and submit to the office from time to time, verified reports as required in Title 24 Section 4-366. As part of the Close-Out of the Project (see Article 9.9), Trade Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343.

Trade Contractor shall fully comply with any and all reporting requirements of Education Code Sections 17315, et seq., in the manner prescribed by Title 24, as applicable.

3.1.6 Trade Contractor Responsibility

The Trade Contractor shall be responsible to the Design Team and to other Trade Contractors for acts and omissions of the Trade Contractor's employees, Subcontractors, material and equipment suppliers, and their agents, employees, invitees, and other persons performing portions of the Work under direct or indirect contract with the Trade Contractor or any of Trade Contractor's Subcontractors.

3.1.7 Obligations not Changed by Architect's Actions

The Trade Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's

administration of the Contract or by tests, inspections, or approvals required or performed by persons other than the Trade Contractor.

3.1.8 Acceptance/Approval of Work

The Trade Contractor shall be responsible to determine when any completed portions of the Work already performed under this Contract or provided pursuant to Article 6 are suitable to receive subsequent Work thereon.

3.2 SUPERVISION

3.2.1 Full Time Supervision

Trade Contractor shall keep on the Work at all times at Initial Coordination Meetings, and as required by CM, at time during the progress of the Work, a competent, English speaking construction Superintendent satisfactory to the District. The Superintendent shall be present on a full-time basis, shall be dedicated exclusively to the Project and shall not share superintendence duties with another project or job. The Superintendent shall not be replaced except with written consent of the District. The Superintendent shall represent Trade Contractor and shall be fully authorized to receive and fulfill any instruction from the Architect, the Inspector, the District or any other District Representative (including CM in the cases where the District has a CM representative). All Requests for Information shall be originated by the Superintendent and responses thereto shall be given to the Superintendent. No Work shall begin on any day by any Subcontractor or other person on the Project site until the Superintendent has arrived, or shall any Work continue during the day after the Superintendent has departed from the Project site. The Superintendent shall have authority to bind Trade Contractor through the Superintendent's acts. The Superintendent shall represent the Trade Contractor, and communications given to the Superintendent shall be binding on Trade Contractor. Before commencing the Work, Trade Contractor shall give written notice to District (and CM representative) and Architect of the name and a Statement of Qualifications of such superintendent. Superintendent shall not be changed except with written consent of District, unless a superintendent proves to be unsatisfactory to Trade Contractor and ceases to be in its employ, in which case, Trade Contractor shall notify District and Architect in writing. Trade Contractor shall provide a replacement superintendent approved by the District prior to performing additional work.

3.2.2 Staff

Notwithstanding other requirements of the Contract Documents, the Trade Contractor shall: (1) furnish a competent and adequate staff as necessary for the proper administration, coordination, supervision, and superintendence of its portion of the Work; (2) organize the procurement of all materials and equipment so that the materials and equipment will be available at the time they are needed for the Work; and (3) keep an adequate force of skilled and fit workers on the job to complete the Work in accordance with all requirements of the Contract Documents.

3.2.3 Right to Remove

District shall have the right, but not the obligation, to require the removal from the Project of any superintendent, staff member, agent, or employee of any Trade Contractor, Subcontractor, material or equipment supplier.

3.3 LABOR AND MATERIALS

3.3.1 Trade Contractor to Provide

Unless otherwise provided in the Contract Documents, Trade Contractor shall provide and pay for labor, material, equipment, tools, construction equipment and machinery, water, heat, air conditioning, utilities, transportation, and other facilities, services and permits necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.3.2 Quality

Unless otherwise specified, all materials and equipment to be permanently installed in the Project shall be new and shall be of the highest quality or as specifically stated in the Contract Documents. Trade Contractor shall, if requested, furnish satisfactory evidence as to kind and quality of all materials and equipment within ten (10) days of a written request by the District, including furnishing the District with bona fide copies of invoices for materials or services provided on the Project. All labor shall be performed by workers skilled in their respective trades, and shall be of the same or higher quality as with the standards of other school construction.

3.3.3 Replacement

Any work, materials, or equipment, which do not conform to these requirements or the standards set forth in the Contract Documents, may be disapproved by the District, in which case, they shall be removed and replaced by Trade Contractor at no additional cost or extension of time to the District.

3.3.4 Discipline

Trade Contractor shall enforce strict discipline and good order among Trade Contractor's and Trade Contractor's Subcontractor's employees, and other persons carrying out the Contract. Trade Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them. As used in this subsection, "unfit" includes any person who the District concludes is improperly skilled for the task assigned to that person, who fails to comply with the requirements of this article, or who creates safety hazards which jeopardize other persons and/or property.

3.3.5 Fingerprinting (Applicable at the time Project is Occupied and on all Projects where Workers will come in Contact with Pupils, such as Modernization Projects)

If applicable, Trade Contractor shall comply with the applicable provisions of Education Code Section 45125.1 in a method as determined by the District. Pursuant to Education Code Section 45125.1, Trade Contractor shall either conduct criminal background checks of all employees of Trade Contractor assigned to the Project site, and shall certify that no employees who have been convicted of serious or violent felonies, as specified in Education Code Section 45125.1, will have contact with pupils, by utilizing the Certification Regarding Background Checks and the corresponding Attachment "A" as found in the Contract Documents or shall be separated by a physical barrier from students.

If it is determined that Trade Contractor must provide certification of employees, as part of such certification, Trade Contractor must provide the District with a list of all employees providing services pursuant to this Agreement, and designate which sites such employees will be assigned. In

performing the services set forth in this Agreement, Trade Contractor shall not utilize any employees who are not included on the above-referenced list.

At District's sole discretion, District may make a finding, as authorized under Education Code Section 45125.1, that Trade Contractor's employees will have only "limited contact" with pupils. Trade Contractor's failure to comply with this law shall be considered a material breach of this Agreement upon where this Agreement may be terminated, at District's sole discretion, without any further compensation to Trade Contractor.

In the case of new construction Projects where there are no students, if the Project Schedule provides for Beneficial Occupancy or portions of the Project or if the Project should be delayed, then Trade Contractor, at no additional costs, shall meet the requirements of either fingerprinting or providing a physical barrier as required by the District.

3.3.6 Noise, Drugs, Tobacco, and Alcohol

Trade Contractor shall take all steps necessary to insure that employees, Subcontractors and vendors employees do not use, consume, or work under the influence of any alcohol, tobacco or illegal drugs while on the Project. Trade Contractor shall further prevent any of its employees or its Subcontractor employees from playing any recorded music devices or radios or wearing any radio headphone devices for entertainment while working on the Project. Likewise, Trade Contractor shall prevent its employees or Subcontractor's employees from bringing any animal onto the Project. Trade Contractors shall not violate any written school policies.

3.3.7 Delivery of Material

Trade Contractor shall place orders for materials or equipment so that the Work may be completed in accordance with the Project Baseline Schedule for the Work as set forth in Article 8 of this Agreement. Trade Contractor shall, upon demand from the Architect, furnish to the Architect documentary evidence including, but not limited to purchase orders, invoices, bills of materials, work orders and bills of lading, showing that orders have been placed. Trade Contractor shall have a system to receive materials and to ensure that the proper materials are being delivered, including in the case of critical materials to the Project, checking the delivery against Shop Drawings and ensuring that the materials meet the requirements of not only the Plans and Specifications, but also the approved Shop Drawings and Submittals and in conformance with Trade Contractor's plan for delivery of materials (including but not limited to Trade Contractor's representations in Trade Contractor Baseline Schedule for the Project and Trade Contractor's equipment and materials schedule under Article 3.7.2.2). Trade Contractor shall be responsible for all costs of accepting non-conforming materials delivered to the Project given Trade Contractor's responsibilities and system for acceptance of deliveries. Trade Contractor shall notify Inspector and District Representative (including CM) as early as possible, in writing, of the delivery of materials for the Project. The deliveries shall include documentation identifying the shipment sufficiently so that the Inspector, Architect or District Representative (including CM) may review the materials that are received.

Under no circumstances shall materials be delivered to the Project site that are meant for another Project.

3.3.8 Liens and Other Security Interests of Subcontractors and Material Suppliers

No material, supplies, or equipment for the Work shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part

thereof is retained by seller or supplier. Trade Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver premises, together with all improvements and appurtenances constructed or placed thereon by it, to District free from any claims, security interests, liens, or charges. Trade Contractor further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to place a lien upon the premises or any improvement or appurtenance thereof, except that Trade Contractor may install metering devices or other equipment of a utility company or political subdivision, title to which is commonly retained by the utility company or political subdivision. In event of installation of any such metering device or equipment, Trade Contractor shall advise District as to its owner within five (5) days of such installation in writing, prior to making the installation.

Trade Contractor agrees to indemnify, defend and hold the District harmless from any liens, stop notices, or assertion of security interests, including judgments and levies. If after written notice Trade Contractor fails to address the lien, stop notice, or other security interest, the District may proceed to address the lien, stop notice or claim and seek reimbursement from Trade Contractor.

3.3.8.1 *Stop Notice Releases.* All stop notice releases shall be notarized and either executed by the same person who filed the stop notice or from an officer of the Trade Contractor or manager of Trade Contractor authorized to release stop notices.

3.3.9 Title to Materials

The title to new materials or equipment for the Work of this Contract shall remain with Trade Contractor until incorporated in the Work of this Contract until final acceptance of the Project; no part of said materials shall be removed from its place of storage, and Trade Contractor shall keep an accurate inventory of all said materials and equipment in a manner satisfactory to the District or its authorized representative. Responsibility for materials remains with Trade Contractor and Trade Contractor shall replace materials in case of loss. District similarly may pay for materials stored off site, but Trade Contractor shall remain responsible for the materials that are stored off site.

3.3.10 Assemblies

For all material and equipment specified or indicated in the Drawings, Trade Contractor shall provide all labor, materials, equipment, and services necessary, (including engineering as specifically required with Shop Drawings or Deferred Approvals) for complete assemblies and complete working systems. Incidental items not indicated on the Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice to provide a complete assembly or system, shall be furnished as though itemized in the Contract Documents in every detail. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and specifications.

3.3.11 Noise Control

The Trade Contractor shall be responsible for the installation of noise reducing devices on construction equipment. Trade Contractor shall comply with the requirements of the city and county having jurisdiction with regard to noise ordinances governing construction sites and activities. Construction equipment noise is subject to the control of the Environmental Protection Agency's Noise Control Program (Part 204 of Title 40, Code of Federal Regulations). If school is in session at any point during the progress of the Project, and, in the District's reasonable discretion, the noise from such Work disrupts or disturbs the students or faculty or the normal operation of the school, at the District's request, the Trade Contractor shall schedule the performance of all such Work around normal school hours or

make other arrangements so that the Work does not cause such disruption or disturbance. There are specific periods of testing at operational schools and it is critical that Trade Contractor control noise during periods of testing. In no event shall Trade Contractor have a right to receive additional compensation or an extension to the Contract time as a result of any such rescheduling or the making of such arrangements. These controls shall be implemented during site preparation and construction. All noise related issues, including school operations, and noise during testing should be detailed in the Schedule provided pursuant to Article 8

3.4 WARRANTY

Trade Contractor warrants to the District and Architect that material and equipment furnished under the Contract will be of the highest quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. Trade Contractor's warranty to District includes, but is not limited to, the following representations:

- a. In addition to any other warranties provided elsewhere, Trade Contractor shall, and hereby does, warrant all Work after the date of Notice of Completion of Work by District and shall repair or replace any or all such Work, together with any other Work, which may be displaced in so doing that may prove defective in workmanship or materials within a one (1) year period from date of Final Completion which shall be no later than the final date of Punch List as noted at Article 9.11) without expense whatsoever to District, ordinary wear and tear, unusual abuse or neglect excepted. District will give notice of observed defects with reasonable promptness. Trade Contractor shall notify District upon completion of repairs.
- b. In the event of failure of Trade Contractor to comply with above mentioned conditions within one week after being notified in writing, District is hereby authorized to proceed to have defects repaired and made good at expense of Trade Contractor who hereby agrees to pay costs and charges therefore immediately on demand.
- c. If, in the opinion of the District, defective Work creates a dangerous condition or requires immediate correction or attention to prevent further loss to the District, the District will attempt to give the notice required by this Article. If Trade Contractor cannot be contacted or does not comply with the District's requirements for correction within a reasonable time as determined by the District, the District may, notwithstanding the provisions of this article, proceed to make such correction or attention which shall be charged against Trade Contractor. Such action by the District will not relieve the Trade Contractor of the guarantee provided in this Article or elsewhere in this Contract.
- d. This Article does not in any way limit the guarantee on any items for which a longer warranty is specified or on any items for which a manufacturer gives a guarantee for a longer period. Trade Contractor shall furnish District all appropriate guarantee or warranty certificates upon the Final Completion of the Project (See Article 9.11.5).

3.5 TAXES

Trade Contractor will pay all applicable Federal, State, and local taxes on all materials, labor, or services furnished by it, and all taxes arising out of its operations under the Contract Documents. District is exempt from Federal Excise Tax, and a Certificate of Exemption shall be provided upon request.

3.6 PERMITS, FEES AND NOTICES

3.6.1 Payment

The Trade Contractor shall secure and pay for all permits and governmental fees, licenses, and inspections necessary for proper execution and completion of the Work which are necessary after execution of the Contract and are legally required by any authority having jurisdiction over the Project, except those required by the Division of the State Architect (DSA). District shall be responsible for all testing and inspection as required by the DSA on-site or within the distance limitations set forth in Article 13.5.2, unless a different mileage range is specified in the Supplemental Conditions.

3.6.1.1 *DSA Fees.* DSA policy is to charge CCD review fees for processing and approval of changes in the Plans and Specifications through the Construction Change Document process. Trade Contractor is specifically directed to the current DSA IR A-30 which provides fee structure and charges that will be incurred for proceeding with respect to the CCD process, a process that must be followed for each change in the Plans and Specifications.

3.6.2 Compliance

The Trade Contractor shall comply with and give notices required by any law, ordinance, rule, regulation, and lawful order of public authorities bearing on performance of the Work. Specifically, the Division of State Architect provides State oversight of the Project and enforcement of Title 24 rules and regulations. Trade Contractor is directed to the DSA website. There will be local governmental oversight from City, County or both. Finally, Regional Water Quality Control Board, State Fire Marshall, local fire marshal, Department of Industrial Relations, Department of Labor Standards Enforcement, and Air Quality Management District (Local and State) are some of the agencies that provide oversight and may require specific permits, fees, or provide oversight over the Project. Trade Contractor represents understanding and specialized knowledge of the rules governing school districts and Trade Contractor shall maintain compliance over the applicable rules and will file all documents required in order to ensure compliance with State, local, and other rules that apply to the Project.

3.6.3 Responsibility

Trade Contractor shall perform all Work in conformance with every law, statute, ordinance, Building Code, rule or regulation. The Trade Contractor shall assume full responsibility for such Work and shall bear the attributable cost of correction or Project delay.

Pursuant to Title 24 Section 4-343(b),

“Contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time.... All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the Inspector, for interpretation or correction.”

To help Trade Contractor plan its operations, Trade Contractor is directed to study the current version of the DSA 152 Inspection Card Manual identifying the exact steps the Inspector is to follow in

the review and sign off process for the DSA 152. The DSA 152 Inspection Card Manual provides specific detail as to the order of operations, review items and compliance items beyond the Specifications and Plans which are reviewed for DSA compliance. The most current version of this manual is located on DSA's website.

Trade Contractor is also specifically directed to the time periods for posting of Special Inspection Reports and Inspector Notifications under DSA PR 13-01 since the timing of Inspection is not a Governmental Entity related delay.

3.7 SUBMITTALS REQUIRED AT THE COMMENCEMENT OF THE PROJECT

3.7.1 Requirements Within Ten (10) Calendar Days

Within ten (10) calendar days after Notice to Proceed, Trade Contractor shall submit the following:

3.7.1.1 Detailed Schedule of Values (See Article 9.2)

3.7.1.2 Submittal Listing and Schedule for Submittals

3.7.1.3 Critical Path Schedule (See Article 8)

3.7.2 Requirements Within Thirty-Five (35) Calendar Days

Within thirty-five (35) calendar days after Notice to Proceed, Trade Contractor shall submit the following:

3.7.2.1 *All Submittals for the Project* except those specifically agreed upon by District and Architect, in writing, and shall be specifically incorporated into the Submittal section of the Schedule so as to not delay the Work. The agreement to allow a later Submittal does not mean that Article 3.3.7 is waived. Trade Contractor shall order materials and ensure prices are honored and secured for the Project.

- a. Structural Steel may be included as a later Submittal than 35 days if Structural Steel is a significant portion of the Work, at least one or some of the Project is a structural steel structural system, or as specifically agreed upon by the Architect or District.
- b. It is specifically agreed that submissions of structural steel Submittals shall not be piecemeal (unless some portion is requested separately by the District or Architect), shall provide complete designs, shall be stamped by the Structural Steel Subcontractor, Trade Contractor, and structural steel Subcontractor's structural engineer at time of submission and as further addressed in Article 3.9.
- c. In no case shall the submission of structural steel drawings delay the critical path for the Schedule. If a Milestone is provided for submission of complete structural steel Shop Drawings then the date shall be no later than as set forth in the Milestone

3.7.2.2 *Exceptions to Submittal Within Thirty-Five (35) Days by Written Agreement.*
A written request detailing the specific reasons for a submission later than 35 days due to complexity of design or non-critical path status of the Submittal shall be submitted at the time the Trade Contractor

Baseline Schedule is submitted. The Trade Contractor Baseline Schedule shall not include a delayed Submittal until written agreement is provided. In addition to the request for providing a Submittal after the thirty-five (35) day period, a copy of the Contract with the Subcontractor who shall be performing the Submittal, a written statement from the Subcontractor verifying that work has commenced on the Submittal and providing Subcontractor's own schedule of milestones and completion dates, and a corresponding Submittal designation in the Schedule as required under Article 8. Approval of a delayed Submittal shall not result in any increase in the Contract Price or result in an extension of time for the completion of the Project.

3.7.2.3 *Piecemeal Submissions of Submittals.* Piecemeal Submittal means providing portions of Shop Drawings or Submittals as they are being completed. The submission of piecemeal Submittals results in the appearance of a submission when there is inadequate information for the Architect or Engineer to adequately review a submission. Piecemeal differs from submission of complete buildings or phases of buildings or complete assemblies. The Architect may agree in writing to allow submission of single buildings or areas as long as the Submittals are complete.

3.7.2.4 *Liquidated damages for untimely submittals.* It is critically important to obtain timely and complete submittals from all contractors on this project in order to prevent disruption to the project schedule. If the project is not completed in accordance with the project schedule, it is understood that the District will suffer damage. It is agreed that the Contractor will pay the District **ONE THOUSAND DOLLARS (\$1,000.00)** per calendar day liquidated damages, and not as a penalty, for each calendar day which the CONTRACTOR's submittals are late beyond the terms in Article 3.7.2 of Section 00700 GCS:A3. In the event a Contractor's failure to provide complete submittals delays or contributes to a delay of an activity on the project schedule critical path, then said liquidated damages shall be increased to the liquidated damage amount specified in document 00500 AGREEMENT.

3.8 DOCUMENTS, SAMPLES, AND COMPUTER AT THE SITE

The Trade Contractor shall maintain at the Site for the District one current copy of the California Building Code, Titles 19 and 24 of the California Code of Regulations, any other document required by DSA, and one record copy of the Drawings, Specifications, Addenda, Change Orders, and other Modifications, in good order and marked currently to record changes and selections made during construction. In addition, Trade Contractor shall maintain at the Site approved Shop Drawings, Product Data, samples, and similar required Submittals. These documents shall be available to the Architect and shall be delivered to the Architect for delivery to the District upon completion of the Work.

Trade Contractor shall have an operational computer with internet access so Trade Contractor can review and post documents as required for the Project, including but not limited to the filing and posting of DSA required documents for the Project.

Trade Contractor shall be prepared to review documents posted to the DSA Project website.

3.9 SUBMITTALS INCLUDING SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

3.9.1 Definitions

3.9.1.1 *Deferred Approvals.* Approval of certain aspects of the construction may be deferred until the construction Contract has been awarded. To facilitate the design process, DSA grants Deferred Approval to the design and detailing of certain elements of the Project at the request of the Architect or Engineer of Record. Design elements that may be deferred may include, but are not limited to access floors, bleachers, elevator guide rails and related elevator systems, exterior wall systems -

precast concrete, glass fiber reinforced concrete, etc. , skylights, window wall systems, storefronts, stage rigging, and other systems as noted in the Contract Documents. (Also see Article 1.2.2 and 3.9.3)

3.9.1.2 *Shop Drawings.* The term “Shop Drawings” as used herein means drawings, diagrams, equipment or product schedules, and other data, which are prepared by Trade Contractor, Subcontractors, manufacturers, suppliers, or distributors illustrating some portion of the Work, and includes: illustrations; fabrication, erection, layout and setting drawings; manufacturer’s standard drawings; schedules; descriptive literature, instructions, catalogs, and brochures; performance and test data including charts; wiring and control diagrams; and all other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment, or systems and their position conform to the requirements of the Contract Documents.

3.9.1.3 *Manufactured* applies to standard units usually mass-produced, and “Fabricated” means items specifically assembled or made out of selected materials to meet individual design requirements. Shop Drawings shall: establish the actual detail of all manufactured or fabricated items, indicate proper relation to adjoining work, amplify design details of mechanical and electrical systems and equipment in proper relation to physical spaces in the structure, and incorporate minor changes of design or construction to suit actual conditions.

3.9.1.4 *Submittals* is a term used interchangeably and sometimes refers to Shop Drawings, Product Data, and samples since all Subcontractor submissions are tracked in a Submittal Log and may include any of the noted items. However, generally, a Submittal is a manufacturer’s product information and Product Data including description, characteristics, size, physical characteristics, and requirements to prepare the jobsite for receiving of the particular manufactured item.

3.9.1.5 *Samples.* The term “samples” as used herein are physical examples furnished by Trade Contractor to illustrate materials, equipment, or quality and includes natural materials, Fabricated items, equipment, devices, appliances, or parts thereof as called for in the Specifications, and any other samples as may be required by the Architect to determine whether the kind, quality, construction, finish, color, and other characteristics of the materials, etc., proposed by Trade Contractor conform to the required characteristics of the various parts of the Work. All Work shall be in accordance with the approved samples.

3.9.2 Shop Drawings.

3.9.2.1 *When Shop Drawings Are Required.* Shop Drawings are required for pre-Fabricated components and for installation and coordination of these pre-Fabricated components into the Project. In addition, Shop Drawings, are prepared to address the actual size and installation of components from various Subcontractors and provides an opportunity for Trade Contractor to coordinate and address conflicts between the subcontracting trades. In some cases, each Subcontractor or trade will provide Shop Drawings in a BIM format or other format as agreed by District.

3.9.2.2 *Purpose for Shop Drawings.* Shop Drawings are Trade Contractor’s manufacturer, Subcontractor, supplier, vendor or the Trade Contractor’s detailed drawings showing particularized method for assembly, specifics to a manufacturer, manufacturer component installation requirements, specifics as to a manufactured item, alterations to a manufactured, a custom created item, or drawn version of more detailed information expanding on the Architect’s design shown in the Contract Documents. The Shop Drawings address the appearance, performance, size, weight, characteristics and prescriptive descriptions associated with the Trade Contractor or Trade Contractor’s Subcontractor’s plan for installation or assembly based on the design in the Specifications and Contract Documents. The Shop

Drawing often is more detailed than the information shown in the Contract Documents to give the Architect and Engineer the opportunity to review the fabricator's version of the product (along with particulars specific to that particular product), prior to fabrication. References to the Contract Documents, Construction Documents, Drawings, Plans, and Specifications assist the Architect and Engineer in their review of the Shop Drawings. Attachment of manufacturer's material specifications, "catalog cut sheets," and other manufacturer's information may be provided to accompany Shop Drawings. Because Shop Drawings facilitate the Architect's and Engineer's approval of the system, they should be as clear and complete as possible so they may be reviewed by Architect or Engineer for the Project.

3.9.2.3 *Shop Drawing Requirements.* Trade Contractor shall obtain and submit with Shop Drawings all seismic and other calculations and all Product Data from equipment manufacturers. "Product Data" as used herein are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Trade Contractor to illustrate a material, product, or system for some portion of the Work.

3.9.2.4 *Not a Reproduction of Architectural or Engineering Drawings.* The Shop Drawings are not a reproduction of the architectural or engineering Drawings. Instead, they must show more detail than the Construction Documents and details the fabrication and/or installation of the items to the manufacturer's production crew or Trade Contractor's installation crews.

3.9.2.5 *Shop Drawings Engineering Requirements:* Some Shop Drawings require an engineer stamp to be affixed on the Drawings and calculations. In such cases, a current and valid engineering stamp shall be affixed by a California registered engineer. No out of state engineers shall stamp Shop Drawings. (See DSA IR A-18). In most cases, an engineer means California registered mechanical, structural, electrical or plumbing engineer. California Registered Civil Engineers will not be accepted for structural details unless specifically approved by DSA.

3.9.2.6 *DSA Approvals Required Prior to Work.* No work on a Shop Drawing that requires DSA approval may proceed until DSA approval is received. Trade Contractor has provided DSA approval time and allowed adequate time for corrections in Trade Contractor's Schedule as required pursuant to Article 8.

3.9.2.7 *Shop Drawing Identification.* All Shop Drawings must be properly identified with the name of the Project and dated, and accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through Trade Contractor. Each drawing shall have a clear space for the stamps of CM, Architect and Trade Contractor.

3.9.3 Deferred Approvals

Deferred approvals shall be submitted and processed to ensure all DSA and other governmental approvals are secured so as to not delay the Project. There may be additional requirements for Deferred Approvals at Division 1 of the Specifications. All Deferred Approvals shall be prepared by Trade Contractor or Trade Contractor's agent early enough so as to not delay the Project. Trade Contractor is aware that Title 24 California Code of Regulations Section 4-317 has specific requirements for Deferred Approval as to governing agencies and as to the Architect and Engineer for the Project. As a result, any delay associated with the time for approval by applicable agencies or by the Architect or Architect's consultants shall be Trade Contractor's. Trade Contractor is required to comply with inclusion

of Deferred Approvals in the Schedule as required under Article 3.9.6 *DSA Approvals Required Prior to Work*. No work on a Deferred Approval item may proceed on the components until DSA approval is received. Trade Contractor has provided DSA approval time and allowed adequate time for any DSA revisions in Trade Contractor's Schedule as required pursuant to Article 8.

3.9.4 Submittals and Samples

3.9.4.1 *Information Required With Submittals*: Manufacturer, trade name, model or type number and quantities: Information provided must be of sufficient detail to allow Architect and Engineer to compare the submitted item with the specified products and acceptable products listed, in the Specifications and addenda.

3.9.4.2 *Description of Use and Performance Characteristics*: Information should be furnished describing the normal use and expected performance of the product. The Design Team and Trade Contractor review this information to confirm that the product is appropriate for the intended use.

3.9.4.3 *Size and Physical Characteristics*: The size and physical characteristics, such as adjustment capabilities, which is reviewed by both the Trade Contractor, and Design Team. The Trade Contractor has the most available information for comparing adjoining materials and equipment. Trade Contractor also needs to know the size and weight of the equipment for lifting and handling considerations.

3.9.4.4 *Finish Characteristics*: The Architect reviews the available finishes and selects the appropriate finish, if the finish was not previously specified in the documents. Trade Contractor should confirm that finish requirements in the Specifications are being met by the product.

3.9.4.5 *Trade Contractor Responsible for Jobsite Dimensions*: Some material is custom-fabricated to job conditions, requiring dimensions from the jobsite. These jobsite dimensions are provided by Trade Contractor as part of Trade Contractor's responsibilities for the Project and shall be provided prior to release of the product for manufacture. Trade Contractor shall not rely on Architect or Engineers to provide jobsite dimensions.

3.9.4.6 *Full Range of Samples Required (When Specific Items Not Specified)*. Except in cases where the exact color and type of item is specified since the District is utilizing items Standardized or pre-selected by District, the full range of color, graining, texture, or other characteristics are anticipated for review in finished products, a sufficient number of samples of the specified materials shall be furnished by the Trade Contractor to indicate the full range of characteristics which will be present in the finished products. Products delivered or erected without Submittal and approval without providing a full range of samples shall be subject to rejection. Except for range samples, and unless otherwise called for in the various sections of the Specifications or Specification Section 1, samples shall be submitted in duplicate.

3.9.4.7 *Labeling of Samples*. All samples shall be marked, tagged, or otherwise properly identified with the name of the submitting party, the name of the Project, the purpose for which the samples are submitted and the date.

3.9.4.8 *Transmittal letter*. All samples shall be accompanied by a letter of transmittal containing similar information, together with the Specification section number.

3.9.4.9 *Labels and Instructions.* All samples of materials shall be supplied with the manufacturer's descriptive labels and application instructions. Each tag or sticker shall have clear space for the review stamps of Trade Contractor and Architect.

3.9.4.10 *Architect's Review.* The Architect and CM will review and, if appropriate, approve submissions and will return them to Trade Contractor with the Architect's stamp and signature applied thereto, indicating the timing for review and appropriate action in compliance with the Architect's (or District's) standard procedures. CM may, in some cases, reject samples that are not in conformance with Contract requirements without sending the Submittal on to the Architect.

3.9.5 Submittal Submission Procedure

3.9.5.1 *Transmittal Letter and Other Requirements.* All Submittals must be properly identified with the name of the Project and dated, and each lot submitted must be accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" on the submissions, all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Trade Contractor Subcontractor submissions shall be made through the Trade Contractor. Each drawing shall have a clear space for the stamps of Architect and Trade Contractor.

3.9.5.2 *Copies Required.* Each Submittal shall include one (1) legible, reproducible (if electronic is available, electronic copies shall also be provided) and five (5) legible prints of each drawing or schedule, table, cut sheet, etc., including fabrication, erection, layout and setting drawings, and such other drawings as required under the various sections of the Specifications, until final acceptance thereof is obtained. Subcontractor shall submit copies, in an amount as requested by the Trade Contractor, of: (1) manufacturers' descriptive data for materials, equipment, and fixtures, including catalog sheets showing dimensions, performance, characteristics, and capacities; (2) wiring diagrams and controls; (3) schedules; (4) all seismic calculations and other calculations; and (5) other pertinent information as required by the District or Architect.

3.9.5.3 *Corrections.* Trade Contractor shall make all corrections required by the Design Team and shall promptly resubmit corrected Submittals until approved. Trade Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections required by the Architect on previous submissions. Professional services required for more than one (1) re-review of required Submittals of Shop Drawings, Product Data, or samples are subject to charge to the Trade Contractor pursuant to Article 4.5.

3.9.5.4 *Approval Prior to Commencement of Work.* No portion of the Work requiring a Shop Drawing or sample submission or other Submittal shall be commenced until the submission has been reviewed by Trade Contractor and CM and approved by Architect unless specifically directed in writing by the Architect. All such portions of the Work shall be in accordance with approved Submittals.

3.9.5.5 *District's Property.* All Submittals, Shop Drawings, computer disks, BIM modeling information, Clash Checks, schedules, annotated Specifications, samples and other Submittals shall become the District's property upon receipt by the District or Architect.

3.9.6 Schedule Requirements for Submittals

Trade Contractor shall obtain and shall submit all required Submittals (i.e. Shop Drawings, Deferred Approvals, samples, etc.), in accordance with Trade Contractor’s “Schedule for Submission of Shop Drawings and Samples” as required in the scheduling portion of the General Conditions at Articles 8 and the Specifications (as long as the Specifications do not conflict with General Conditions). In the case of conflict, the conflicting provision shall be controlled by the General Conditions and the remaining Specification sections shall be interpreted as if the general conditions language is inserted) with such promptness as to cause no delay in its own Work or in that of any other contractor or Subcontractor but in no event later than thirty five (35) days after the Notice to Proceed is issued except in the specific cases noted as an exception under Article 3.7.2.1. No extensions of time will be granted to Trade Contractor because of its failure to have Submittals submitted in accordance with the requirements of this Article and the Project Baseline Schedule or Updated Schedule. Subcontractors for Trade Contractor shall submit Submittals for the review of the District, the Trade Contractor, and the Architect through the Trade Contractor.

3.9.6.1 *Consideration of Schedule.* Trade Contractor has considered lead times, DSA or other agency governmental review times, Architect or Engineer review times, manufacturing seasons, and specific long lead procurement concerns for all submittals for the Project.

3.9.7 General Submittal Requirements

3.9.7.1 *Trade Contractor Submittal Representations and Coordination.* By submitting Shop Drawings, Product Data, samples, etc., the Trade Contractor represents that it has determined and verified all materials, field measurements, catalog numbers, related field construction criteria, and other relevant data in connection with each such submission, and that it has checked, verified, and coordinated the information contained within such Submittals with the requirements of the Work and of the Contract Documents, including the Project Baseline Schedule and Updated Schedules.

3.9.7.2 *Trade Contractor Coordination.* Trade Contractor shall stamp, sign, and date each Submittal indicating its representation that the Submittal meets all of the requirements of the Contract Documents and evidence Trade Contractor’s review through execution of the following stamp to be placed on each Shop Drawings:

“The [Trade Contractor] has reviewed and approved the field dimensions and the construction criteria, and has also made written notation regarding any information in the Shop Drawings and Submittals that does not conform to the Contract Documents. This Shop Drawing or Submittal has been coordinated with Shop Drawings and Submittals that may affect my Work and this duty of coordination has not been delegated to subcontractors, material suppliers, the Architect, or the Engineers on this Project.

Signature of Trade Contractor and date

3.9.7.3 *No Deviation from Contract Documents.* The submission of the Shop Drawings, Product Data, samples, etc., shall not deviate from the requirements of the Contract Documents including detailing and design intent which is specifically outlined in Contract Documents except as specifically authorized by the Architect or through an accepted substitution pursuant to Article 3.10.4. All deviations from the Contract Documents shall be narratively described in a transmittal accompanying the Shop Drawings. However, Shop Drawings shall not be used as a means of requesting a substitution, the procedure for which is defined in Article 3.10.4, “Substitutions.”

3.9.7.4 *Trade Contractor Responsibility for Shop Drawings Conformance to Contract Documents.* Review by District and Architect shall not relieve the Trade Contractor from its responsibility in preparing and submitting proper Submittals and Shop Drawings in accordance with the Contract Documents.

3.9.7.5 *Incomplete Submittals.* Any submission, which in CM or Architect's opinion is incomplete, contains errors, or has been checked superficially, will be returned not reviewed by the Architect for resubmission by Trade Contractor. The Trade Contractor shall be responsible for any related delays and shall not be the basis for any Claim.

3.9.7.6 *Shop Drawings and Submittals Shall Not Be Used as a Method to Make a Substitution.* Shop Drawings and Submittals shall not be used as a means of requesting a substitution or to make changes in the Contract Documents. If changes are made to the Contract Documents through the Shop Drawings, the Architect shall have the right to reject the Submittal. If the Architect does not note the deviation from the approved Plans and Specifications, Trade Contractor is still responsible for the change and the Design Team may require the Shop Drawings be revised to properly reflect the approved Contract Documents. The Design Team may also require that the Trade Contractor bear all costs under Article 4.5 and consequential damages associated with a CCD to revise Plans and Specifications to accommodate the deviation from approved Plans and Specifications.

3.9.7.7 Extent of Review. In reviewing Shop Drawings, the Design Team and engineers for the Project will not verify dimensions and field conditions. Review of field dimensions is Trade Contractor's responsibility. The Architect will review and approve Shop Drawings, Product Data, samples, etc., for aesthetics and for conformance with the design concept of the Work and the information in the Contract Documents. The Architect's review shall neither be construed as a complete check which relieves the Trade Contractor, Subcontractor, manufacturer, fabricator, or supplier from responsibility for any deficiency that may exist or from any departures or deviations from the requirements of the Contract Documents unless the Trade Contractor has, in writing, called the Architect's attention to the deviations at the time of submission. The Architect's review shall not relieve Trade Contractor from responsibility for errors of any sort in Shop Drawings or schedules, for proper fitting of the Work, coordination of the differing trades and Shop Drawings and Work which is not indicated on the Shop Drawings at the time of submission of Shop Drawings. Trade Contractor shall be solely responsible for any quantities which may be shown on the Submittals or Contract Documents.

3.10 SUBSTITUTIONS

3.10.1 Definition

A Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by Trade Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of this Article.

3.10.2 One Product Specified

Unless the Specifications state that no substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, or type of construction or any specific name, make, trade name, or catalog number, with or without the words "or equal," such specification shall be deemed to be used for the purpose of facilitating description of the material, process, or article desired and shall be deemed to be followed by the words "or equal." Subject to the requirements of properly submitting a Substitution Request for as Addressed in

Article 3.10.4, Trade Contractor may, unless otherwise stated, offer any material, process, article, etc., which shall be materially equal or better in every respect to that so indicated or specified (“Specified Item”) and will completely accomplish the purpose of the Contract Documents.

3.10.3 Products Specified Which Are Commercially Unavailable

If the Trade Contractor fails to make a request for substitutions for products, prior to the submission of its bid, and such products subsequently become commercially unavailable, the Trade Contractor may request a substitution for such commercially unavailable item. The decision to grant this request is solely at the District’s discretion. The written approval of the District, consistent with the procedure for Change Orders, shall be required for the use of a proposed substitute material. The District may condition its approval of the substitution upon the delivery to District of an extended warranty or other assurances of adequate performance of the substitution as well as an equitable deduction in the Contract Price should the substituted item cost less than the Specified Item. All risks of delay due the approval of a requested substitution by the DSA, or any other governmental agency having jurisdiction, shall be on the requesting party. All additional costs, DSA review costs, all procurement and construction delays, and all costs for review by the Architect or its consultants shall be the responsibility of Trade Contractor under Article 4.5 and will be subject to a Deductive Change Order under Article 7.7.4.

3.10.4 Substitution Request Form

Requests for substitutions of products, materials, or processes in place of a Specified Item must be in writing on the District’s Substitution Request Form (“Request Form”) at the time of submitting bids to the District, except as provided for in Article 3.10.3.

The Request Form must be accompanied by evidence as to whether the proposed substitution:

- d. Is equal in quality/service/ability to the Specified Item;
- e. Will entail no changes in detail, construction, and scheduling of related work;
- f. Will be acceptable in consideration of the required design and artistic effect;
- g. Will provide no cost disadvantage to the District;
- h. Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and
- i. Will required no change of the construction schedule.

In completing the Request Form, the bidder must state, with respect to each requested substitution, whether the bidder will agree to provide the Specified Item in the event that the District denies the bidder’s request for such requested substitution. In the event that the bidder has agreed in the Request Form to provide the Specified Item and the District denies the bidder’s requested substitution for a Specified Item, the bidder shall provide the Specified Item without any additional cost or charge to the District.

After bids are opened, the apparent lowest bidder shall provide, within five (5) days of opening such bids, any and all Drawing, Specifications, samples, performance data, calculations, and

other information, as may be required to assist the Design Team in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by the bidder, the District will make its final decision as to whether the bidder's request for substitution for any Specified Items will be granted. The decision as to whether a proposed request for substitution is equal to a Specified Item shall be at the sole discretion of the District. Any request for substitution that is granted by the District shall be documented and processed through a Change Order. Trade Contractor must submit a complete Submittal of the requested substitution and a Shop Drawing showing configuration, dimensions, and other critical information associated with the substitution that meets the requirements of Article 3.9. The Design Team may condition its approval of any substitution upon delivery to the District of an extended warranty or other assurances of adequate performance of the substitution. Any and all risks of delay due to approval by the DSA or any other governmental agency having jurisdiction shall be on the bidder.

If the Design Team, as a whole, accepts a proposed substitution, Trade Contractor agrees to pay for all DSA review costs, engineering and design services, including, without limitation, compensation to the Architect and affected engineers for their required time to process such substitution through the DSA, if required, and to make all changes and adjustments in materials or the work of all trades directly or indirectly affected by the substituted item or items at no cost to the District.

3.10.5 Substitution Requests After Bid

The District, in its sole discretion, may accept a request for substitution by the Trade Contractor or may request Trade Contractor substitute a specified item. Any substitutions requested after bids are opened shall be subject to the same conditions and requirements set forth in Article 3.10.4 above. If any substitutions, that in the District or Design Team's determination, results in a credit to the District, the credit amount shall be agreed upon in writing, otherwise, the request for substitution shall be deemed denied.

3.11 INTEGRATION OF WORK

3.11.1 Scope

Trade Contractor shall be responsible for cutting, fitting, or patching to complete the Work and to make all parts fit together properly. Trade Contractor shall be responsible for ensuring that all trades are coordinated and scheduled so as to ensure the timely and proper execution of the work. When modifying existing work or installing new Work adjacent to existing work, Trade Contractor shall match, as closely as conditions of Site and materials will allow, the finishes, textures, and colors of the original work, refinishing existing work at no additional cost to District. All cost caused by defective or ill-timed work shall be borne by Trade Contractor. Trade Contractor shall be solely responsible for protecting existing work on adjacent properties and shall obtain all required permits for shoring and excavations near property lines.

3.11.2 Structural Members

New or existing structural members and elements, including reinforcing bars and seismic bracing, shall not be cut, bored, or drilled except by written authority of the Architect. Work done contrary to such authority is at Trade Contractor's risk and subject to replacement at its own expense without reimbursement under the Contract. Schedule delays resulting from Agency approvals for unauthorized work shall be Trade Contractor's responsibility.

3.11.3 Subsequent Removal

Permission to patch any areas or items of the Work shall not constitute a waiver of the Design Team’s right to require complete removal and replacement of the areas of items of the Work if the patching does not satisfactorily restore quality and appearance of the Work or does not otherwise conform to the Contract Documents.

3.12 ALLOWANCES

3.12.1 Allowances are to be included in the base bid and listed separately in the Schedule of Values and Application for Payment.

3.12.2 100% of all unused Allowances are returned to the District upon issuance of Final Payment.

3.12.3 Trade Contractor shall submit a request for allowance disbursement with all substantiating and required data. Allowances shall be disbursed without Trade Contractor overhead and any other mark-ups.

3.12.4 Use of Allowances Only as Allowed by CM and District

The Use of allowances are only as specifically authorized by the CM and District and only for the specific area of Work noted and must be approved before allowances are disbursed.

3.13 CLEANING UP

3.13.1 Trade Contractor’s Responsibility to Clean Up

Trade Contractor at all times shall keep premises free from debris such as waste, dust, excess water, storm water runoffs, rubbish, and excess materials and equipment. Trade Contractor shall not leave debris under, in, or about the premises, but shall promptly remove same from the premises and dispose of it in a lawful manner. Disposal receipts or dump tickets shall be furnished to the Architect within five (5) days of request.

Trade Contractor shall remove rubbish and debris resulting from the Work on a daily basis. Trade Contractor shall maintain the structures and Site in a clean and orderly condition at all times until acceptance of the Project by the District. Trade Contractor shall keep its access driveways and adjacent streets, sidewalks, gutters and drains free of rubbish, debris and excess water by cleaning and removal each day. All concrete, sidewalks, and paths of travel shall be broom cleaned daily.

3.13.2 General Final Clean-Up

Upon completion of Work, Trade Contractor shall employ experience workers or professional cleaners for final cleaning. Trade Contractor shall clean each surface to the condition expected in a normal, commercial, building cleaning and maintenance program including, but not limited to, the performance of the following:

- a. Clean interior and exterior of buildings, including fixtures, equipment, walls, floors, ceilings, roofs, window sills and ledges, horizontal projections, and any areas where debris has collected, so surfaces are free from foreign material or discoloration;

- b. Clean the Project site. The grounds should be cleared of any Trade Contractor equipment, raked clean of debris and trash removed. Sweep paved areas broom clean;
- c. Repair or replace any damaged materials. Replace any chipped or broken glass;
- d. Remove any and all stains;
- e. Remove labels that aren't permanent labels;
- f. Clean and polish all glass, plumbing fixtures, equipment, finish hardware and similar finish surfaces. Remove any glazing compounds;
- g. Remove temporary utilities, fencing, barricades, planking, sanitary facilities and similar temporary facilities from Site;
- h. Remove temporary film that remains on any hardware, doors or other surfaces; and
- i. Seal the bottom and tops of all doors.

3.13.3 Special Clean-Up.

In addition to the general cleaning, the following special cleaning shall be done at the completion of the Work in accordance with the Specifications including, but not limited to:

- a. Remove putty stains from glazing, then wash and polish glazing;
- b. Remove marks, stains, fingerprints and other soil or dirt from painted, stained or decorated work;
- c. Remove temporary protection and clean and polish floors and waxed surfaces;
- d. Clean and polish hardware and plumbing trim; remove stains, dust, dirt, plaster and paint;
- e. Wipe surfaces of mechanical and electrical equipment;
- f. Remove spots, soil, plaster and paint from tile work, and wash tile;
- g. Clean all fixtures and equipment, remove excess lubrication, clean light fixtures and lamps, polish metal surfaces;
- h. Vacuum-clean carpeted surfaces; and
- i. Remove debris from roofs, down spout and drainage system.

3.13.4 Failure to Cleanup

If the Trade Contractor fails to clean as provided in the Contract Documents, the District may do so and the cost thereof shall be the responsibility of the Trade Contractor pursuant to Article 2.2 and seek a Deductive Change Order.

3.14 ACCESS TO WORK

Trade Contractor shall provide the CM, District, the Architect, Engineers and the Inspector of Record, access to the Work in preparation and progress wherever located. Trade Contractor shall provide safe and proper facilities for such access so that District's representatives may perform their functions.

3.14.1 Special Inspections, Inspections or Tests Out of State, Out of Country or Remote from Project

If Trade Contractor has a Subcontractor or supplier that requires in plant or special inspections or inspections or tests that are out of the country, out of the state, or a distance of more than 200 miles from the Project site, the Special Inspector or Inspector shall be provided access so the special inspection or inspection may occur in the remote location. In some cases, the DSA Inspector may also require access in addition to Special Inspectors and individuals performing tests. Inspections/tests shall occur during normal work hours. (See also Article 4.3.6)

3.15 ROYALTIES AND PATENTS

3.15.1 Payment and Indemnity for Infringement

Trade Contractor shall hold and save the District and its officers, agents, and employees, the CM, the Architect, and the Architect's consultants harmless from liability of any nature or kind, including cost and expense, for or on account of any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the District, unless otherwise specifically provided in the Contract Documents, and unless such liability arises from the sole negligence, or active negligence, or willful misconduct of the District, the Architect, or the Architect's consultants.

3.15.2 Review

The review by the Architect of any method of construction, invention, appliance, process, article, device, or material of any kind shall be for its adequacy for the Work and shall not be an approval for the use by Trade Contractor in violation of any patent or other rights of any person or entity.

3.16 INDEMNIFICATION

3.16.1 Trade Contractor

See Agreement Form. Trade Contractor shall ensure that its contract with each of its Subcontractors contains provisions requiring the Subcontractors to defend, indemnify and hold harmless the District, Architect, Inspector, the State of California to a minimum level as set forth in this Article and consistent with the indemnity and hold harmless language in the Agreement Form.

Trade Contractor's and Subcontractors' obligation to defend, indemnify and hold harmless the District, Architect, CM, Inspector, the State of California and their officers, employees, agents and independent contractors hereunder shall include, without limitation, any and all claims, damages, and costs for the following: (1) any damages or injury to or death of any person, and damage or injury to, loss (including theft), or loss of use of, any property; (2) breach of any warranty, express or implied; (3) failure of Trade Contractor or Subcontractors to comply with any applicable governmental

law, rule, regulation, or other requirement; (4) products installed in or used in connection with the Work; and (5) any claims of violation of the Americans with Disabilities Act (“ADA”).

3.17 SUBMISSION OF DAILY REPORTS

3.17.1 General

By 10:00 a.m. on the following business day, Trade Contractor shall submit a Daily Report to the Inspector and copy the Architect for the previous day’s Work. The original Daily Report is to be provided to the CM and copies sent to the Architect and the Inspector. Daily Reports shall be prepared on forms approved by the District, together with applicable delivery tickets, listing all labor, materials, and equipment involved for that day. The District reserves the right to note inconsistencies or inaccuracies in the Daily Reports. In such cases, pertinent notes shall be entered by each party to explain points which cannot be resolved that day. Each party shall retain a signed copy of the report. Reports by Subcontractors or others shall be submitted through the Trade Contractor.

3.17.2 Labor

The Daily Report shall show names of workers, classifications, hours worked and hourly rate. The locations where work occurred shall also be identified in the Daily Report. Project superintendent expenses are not allowed.

3.17.3 Materials

The Daily Report shall describe and list quantities of materials used and unit costs.

3.17.4 Equipment

The Daily Report required by Article 3.16.1 shall show type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable, and hourly/daily cost. Move-on and move-off fees shall be noted.

3.17.5 Other Services and Expenditures

Other services and expenditures shall be described in the Daily Report in detail as the District requires.

3.17.6 Failure to Submit Daily Report

If Trade Contractor does not submit its Daily Report by 10 am the next business day, the Inspector of Record shall prepare a Daily Report addressing each of the above items. The cost for the Inspector’s services to prepare the Daily Report shall be addressed through a Deductive Change Order under Article 7.7.4

3.18 AS-BUILT DRAWINGS AND ANNOTATED SPECIFICATIONS

Throughout the duration of the Project, Trade Contractor shall maintain on a current basis an accurate and complete set of As-Built Drawings (and Annotated Specifications) clearly showing all changes, revisions to Specifications and substitutions during construction, including, without limitation, field changes and the final location of all electrical and mechanical equipment, utility lines, ducts, outlets, structural members, walls, partitions, and other significant features. In case a Specification allows Trade

Contractor to elect one of several brands, makes, or types of material or equipment, the annotations shall show which of the allowable items the Trade Contractor has furnished. Trade Contractor will update the As-Built Drawings and Annotated Specifications as often as necessary to keep them current, but no less often than weekly.

Trade Contractor shall update As-Built Drawings with complete information on an area of Work at or near the time when the Work is being performed and prior to any DSA 152 sign off and prior to any Work being covered.

The As-Built Drawings and Annotated Specifications shall be kept at the Site and available for review and inspection by the District and the Architect. Failure to maintain and update the As-Built Drawings is a basis to withhold Progress Payments pursuant to Article 9.6.

3.18.1 Upon Beneficial Occupancy

Trade Contractor shall obtain and pay for reproducible Plans upon Beneficial Occupancy. Trade Contractor shall deliver Plans to CM.

3.18.2 As-Builts at Completion of Work

Upon completion of the Work and prior to and as a condition precedent to Application for Retention Payment, Trade Contractor will provide one neatly prepared and complete set of As-Built Drawings and Annotated Specifications to the District. Trade Contractor shall certify the As-Builts as a complete and accurate reflection of the actual construction conditions of the Work by affixing a stamp indicating the Drawings are As-Builts and certifying accuracy on the final set of As-Builts. Failure to deliver a complete As-Built Drawings and Annotated Specifications may result in significant withholdings to ensure Work is properly documented. (See Article 9.9.1)

3.18.3 Log of Control and Survey Documentation

Trade Contractor shall complete and maintain an accurate log or all control and survey documentation for the Project as the Work progresses. All reference and control points shall be recorded on the As-Built Drawings. The basis of elevations shall be one of the established benchmarks that must be maintained on the As-Builts.

3.18.4 Record Coordinates for Key Items

Trade Contractor shall record, by coordinates, all utilities on-site with top of pipe elevations, major grade and alignment changes, rim, grate or top of curb and flow line elevations of all drainage structures and sewer manholes. Trade Contractor shall update record information at or near the time when work is occurring in an area and prior to DSA 152 sign off on any category of Work and prior to covering the Work.

3.18.5 BIM As-Built Drawings

If BIM is utilized for the Project, then an electronic version of such As-Built Drawings and Annotated Specifications will be delivered to District (in an acceptable format to District).

3.19 EQUIPMENT MANUALS

Trade Contractor shall obtain and furnish three (3) complete sets of manuals containing the manufacturers' instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract Documents and any additional data specifically requested under the various sections of the Specifications for each division of the Work. The manuals shall be arranged in logical, sequential order, labeled, indexed, and placed in three-ring binders. At the completion of its Work, the Trade Contractor shall certify, by endorsement thereon, that each of the manuals is complete, accurate, and covers all of its Work. Prior to submittal of Trade Contractor's Application for Retention Payment, and as a further condition to its approval by the Architect, each Trade Contractor shall deliver the manuals, arranged in logical, sequential order, labeled, indexed, endorsed, and placed in three-ring binders, to CM, who will review these manuals with Architect for all divisions of the Work for completeness, and submit them to the District.

3.20 DIR REGISTRATION

Strict compliance with all DIR registration requirements in accordance with Labor Code sections 1725.5 and 1771.1 is a material obligation of the Trade Contractor and all of its subcontractors (of any tier) under the Contract Documents. The foregoing includes, without limitation, compliance with DIR registration requirements at all times during performance of the Work by the Trade Contractor and all of its subcontractors of any tier. The failure of the Trade Contractor and all subcontractors of any tier to be properly registered with DIR at all times during performance of the Work is a material breach of the Contract and subject to termination for cause.

An affirmative and ongoing obligation of the Trade Contractor under the Contract Documents is the verification that all subcontractors of any tier are at all times during performance of the Work are in full and strict compliance with the DIR registration requirements. The Trade Contractor shall not permit or allow any subcontractor of any tier to perform any Work without the Trade Contractor's verification that all subcontractors are in full and strict compliance with the DIR registration requirements. Any subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1. Trade Contractor or its subcontractors of any tier shall not be entitled to any additional costs or time arising from or in any way related to compliance with the DIR registration requirements.

ARTICLE 4
ADMINISTRATION OF THE CONTRACT AND CLAIMS

4.1 ARCHITECT

4.1.1 Replacement of Architect

In the case of the termination of the Architect, the District may appoint an Architect or another construction professional or may perform such functions with its own licensed professional personnel. The status of the replacement Architect under the Contract Documents shall be the same as that of the former Architect.

4.2 ARCHITECT'S ADMINISTRATION OF THE CONTRACT

4.2.1 Status

Pursuant to Titles 24 of the California Code of Regulations and as required pursuant to the Field Act, Education Code 17280 et seq., the Architect will provide administration of the Contract Documents and the Work, and will be the District's representative during construction, as well as during the one (1) year period following the commencement of any warranties. The Architect will have authority to act on behalf of the District only to the extent provided in the Contract Documents.

4.2.2 Site Visits

The Architect will visit the Site at intervals necessary in the judgment of the Architect to become generally familiar with the progress and quality of the Work and to determine in general if the Work is being performed in accordance with the Contract Documents and as otherwise required by DSA.

4.2.3 Limitations of Construction Responsibility

The Design Team shall not have control over, charge of, or be responsible for construction means, methods, techniques, schedules, sequences or procedures, fabrication, procurement, shipment, delivery, receipt, installation, or for safety precautions and programs in connection with the Work, since these are solely the Trade Contractor's responsibility under the Contract Documents. The Design Team shall not be responsible for Trade Contractor's, Trade Contractor's Subcontractors', material or equipment suppliers', or any other person's schedules or failure to carry out the Work in accordance with the Contract Documents. The Design Team shall not have control over or charge of acts or omissions of Trade Contractor, Trade Contractor's Subcontractors, their agents or employees, or any other persons or entities performing or supplying portions of the Work. Trade Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Design Team in the Design Team's administration of the Contract Documents, or by tests, inspections, or approvals required or performed by persons other than Trade Contractor.

4.2.4 Communications Facilitating Contract Administration

All communication shall be through the CM (unless otherwise directed) with copies to the District, Architect and Inspector. Where direct communication is necessary between the District and Trade Contractor, the District's communication shall be through the District's Representative and/or the CM. Trade Contractor shall not rely upon any communications from the District that is not from the District's Representative. Communications by and with the Architect's consultants shall be through the

CM and through Architect. Communications by and with Trade Contractor's Subcontractors and material or equipment suppliers shall be through Trade Contractor. The CM shall be the main point of contact for communication of information. Copies should be sent to the Architect, District Representative and Inspector.

4.2.5 Payment Applications

The Architect will review and make recommendations to the District regarding the amounts due Trade Contractor on the Certificates for Payment pursuant to Article 9.3.4 and subject to the Inspector's and CM's review, and Architect's observation. This review of Payment Applications is sometimes called a "Pencil Draft." Return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Trade Contractor shall promptly respond to Pencil Drafts or Trade Contractor's Payment Applications may be delayed. Trade Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the Prompt Payment of a Request for Payment or Request for Retention.

4.2.6 Rejection of Work

In addition to the rights, duties, and obligations of the Inspector under this Article, the Design Team may reject Work which does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable to achieve the intent of the Contract Documents, the Architect (and/or CM) may recommend to the District that the District require additional inspection or testing of the Work in accordance with Article 13.5, whether or not such Work is Fabricated, installed, or completed. District may have Non-conforming Work removed and replaced pursuant to Article 9.7. However, neither this authority of the Architect (or CM) nor a decision made in good faith either to exercise or not to exercise such authority shall create a duty or responsibility of the Architect (or CM) to Trade Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons performing portions of the Work.

Trade Contractor shall, without charge, replace or correct Work found by the District to not be in conformance to Contract requirements. Trade Contractor shall promptly segregate and remove rejected materials from the Project site.

This section is in addition to and separate from the legal duties associated with a Notice of Non-Compliance and the remedies associated with a Notice of Non-Compliance which are addressed at Article 7.1.2.

4.2.7 Warranties upon Completion

The Architect (and where applicable CM), in conjunction with the Inspector will conduct field reviews of the Work to determine the date of Substantial Completion and of Final Completion, shall receive and forward to the District for the District's review written warranties and related documents required by the Contract and assembled by Trade Contractor, and will issue a final Certificate for Payment when the Architect believes the Work has been completed in compliance with the requirements of the Contract Documents (See Article 9.11 for Close-Out). The handling by the Architect (or where applicable CM) of such warranties, maintenance manuals, or similar documents shall not diminish or transfer to the Architect any responsibilities or liabilities required by the Contract Documents of the Trade Contractor or other entities, parties, or persons performing or supplying the Work.

On some Projects, the District will take a phased occupancy of the Project. In those cases, the District may commence the running of warranties on the buildings, or phases that are accepted after Punch List is completed and the District has accepted Completion of the separate phase. A separate Notice of Completion may be filed for the separate building or phase of work and warranties shall commence for the separate phase only to the extent that warranties do not require coordination or connection to other buildings or other parts of the site and only if the warranted item is completed to its entirety in the segregated building or phased area.

If written warranties are not provided at the time the Punch List is nearing completion, Architect (with recommendations from the CM and Inspector) shall determine the dollar value of the warranties and shall make recommendation for withholdings necessary to effectuate the transfer of such warranties to the District for future use as part of the Punch List for the Project pursuant to Article 9.6.

Warranties are not commenced through utilizing of equipment for testing and operation as necessary to acclimate buildings or where necessary to test systems.

4.2.8 Interpretation

The Architect will interpret and decide matters concerning performance and requirements of the Contract Documents. Architect shall make clarifications as necessary to interpret the Contract Documents.

4.3 **PROJECT INSPECTOR**

4.3.1 General

One or more Project Inspectors employed by the District and approved by the Division of the State Architect will be assigned to the Work in accordance with the requirements of Title 24 of the California Code of Regulations. The Inspector(s) duties are as specifically defined in Title 24 Section 4-333 and 4-342 and in DSA IR A-8.

4.3.2 Inspector's Duties and DSA Noted Timelines for Inspection

All Work shall be under the observation of the Inspector. Trade Contractor, with the assistance of the CM, shall establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. This protocol is to be established as part of the Initial Trade Contactor Coordination Meetings. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. The Inspector shall have free access to any or all parts of the Work at any time. Trade Contractor shall furnish the Inspector such information as may be necessary to keep the Inspector fully informed regarding progress and manner of Work and character of materials. Such observations shall not, in any way, relieve Trade Contractor from responsibility for full compliance with all terms and conditions of the Contract, or be construed to lessen to any degree the Trade Contractor's responsibility for providing efficient and capable superintendence. The Inspector is not authorized to make changes in the Drawings or Specifications nor shall the Inspector's approval of the Work and methods relieve Trade Contractor of responsibility for the correction of subsequently discovered defects, or from its obligation to comply with the Contract Documents.

Inspector shall electronically post DSA required documents on the DSA electronic posting website. It is Trade Contractor's responsibility to determine the status of posting and determine if

all the criteria for sign off of a category of Work on the Project Inspection Card (Form DSA 152) as defined more thoroughly in the most current version of the DSA 152 manual posted on the DSA website.

Inspector may collaborate with Trade Contractor about approval of areas that may be constructed and approved incrementally under the DSA 152 card pursuant to the guidelines of PR-13 at Article 1.17. Inspector shall work with Trade Contractor to present incremental approval proposals to DSA.

4.3.3 Inspector's Authority to Reject or Stop Work

The Inspector shall have the authority to reject Work whenever provisions of the Contract Documents are not being complied with, and Trade Contractor shall instruct its Subcontractors and employees accordingly. In addition, the Inspector may stop any Work that poses a probable risk of harm to persons or property. Trade Contractor shall instruct its employees, Subcontractors, material and equipment suppliers, etc., accordingly. The absence of any Stop Work Order or rejection of any portion of the Work shall not relieve the Trade Contractor from any of its obligations pursuant to the Contract Documents.

4.3.4 Inspector's Facilities

If required under Trade Contractor's scope and bid package, within seven (7) days after the notice to proceed, the Trade Contractor shall provide the Inspector with the temporary facilities as required. More specific requirements for the Inspector facilities may be further described under Division 1 of the Specifications.

4.3.5 Testing Times

The District will provide inspection and testing at its cost during the normal eight (8) hour day Monday through Friday (except holidays). Work by Trade Contractor outside of the normal eight (8) hour day shall constitute an authorization from Trade Contractor to the District to provide inspection and testing as required outside of the normal eight (8) hour day. Trade Contractor shall provide adequate time for inspections so as to not delay the Work. An advanced timing protocol may be established pursuant to Article 4.3.2. If the Trade Contractor is behind Schedule then it is incumbent on the Trade Contractor to provide advance forecast through look ahead of the anticipated date for inspection so the Inspector may plan their activities so as to not delay the Project. Trade Contractor shall reimburse District for any additional costs associated with inspection and testing (including re-inspection and re-testing) outside the normal eight-hour day and for any retests caused by the Trade Contractor.

It is Trade Contractor's responsibility to request special inspections with sufficient time so all testing may be timely completed and posted so work may proceed and the Inspector's signature is attached to the Project Inspection Card (Form 152). Specifically, timely request for special inspection under the DSA Verified Report Forms 291 (laboratory), DSA Verified Report Form 292 (Special Inspection), and DSA Verified Report 293 (geotechnical) since DSA requirements under PR 13-01 specifically gives the Special Inspections 14 days to post to the DSA website. Failure to plan and pay (if applicable) for quicker delivery of Special Inspections may be counted as Float, but is not considered Governmental Delay Float under Article 8.1.4.

4.3.6 Special Inspections, Inspections or Tests Out of State, Out of Country or Remote from Project

If Trade Contractor has a Subcontractor or supplier that requires in plant or special inspections or inspections or tests that are out of the country, out of the state or a distance of more than 200 miles from the Project Site, the District shall provide the Special Inspector, Inspector or individual performing tests time for inspection and testing during normal work hours. Trade Contractor, however, is responsible for the cost of travel, housing, food, out of area premiums that may be in the Inspector/Testing Agreement with District, or other expenses necessary to ensure proper inspection, special inspection or testing is provided by a DSA Certified Inspector, Special Inspector, or individual performing tests. In some cases all three (DSA Inspector, Special Inspector, and Tester) may be required. In addition, if the DSA Certified Inspector, Special Inspector, or individual performing test has contractual travel clauses or special rates for out of town inspection, Trade Contractor is responsible for all costs associated with the contractual travel costs in addition to all other costs. Arrangements for inspection and/or testing shall be made far enough in advance so as to not delay the Work.

4.4 STOP WORK ORDER

DSA may issue a Stop Work Order, or an Order to Comply, when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations, and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code Section 17307.5(b) and Education Code Section 81133.5, the District shall not be held liable in any action filed against the District for any delays caused by compliance with the Stop Work Order, except to the extent that an error or omission by the District is the basis for the issuance of the Stop Work Order.

Examples of Stop Work Orders that may be issued by DSA include DSA Bulletin 07-04 and Policy 10-01, the installation of automatic fire sprinkler systems without approved Plans, covering Work that has not been approved by Inspector on DSA Project Inspection Card (Form 152).

4.5 RESPONSIBILITY FOR ADDITIONAL CHARGES INCURRED BY THE DISTRICT FOR PROFESSIONAL SERVICES

If at any time prior to the completion of the requirements under the Contract Documents, the District is required to provide or secure additional professional services (including CM, Inspection, Architect, Engineering and Special Consultant Services) for any reason by any act of the Trade Contractor, the District may seek a Deductive Change Order for any costs incurred for any such additional services, which costs shall be deducted from the next progress payment. A Deductive Change Order shall be independent from any other District remedies and shall not be considered a waiver of any District rights or remedies. If payments then or thereafter due to the Trade Contractor are not sufficient to cover such amounts, the Trade Contractor shall pay the difference to the District. Additional services shall include, but shall not be limited to, the following:

- a. Services made necessary by the default of the Trade Contractor (Article 14 or Article 2.2).
- b. Services made necessary due to the defects or deficiencies in the Work of the Trade Contractor (Article 2.2 and Article 9.6).

- c. Spurious or frivolous RFI's issued that do not conform to the requirements of Article 7.4. Issuance of the same RFI after receiving an answer from the Architect or Engineer
- d. Review of Schedules that are provided by Trade Contractor that do not Conform with the Requirements of Article 8.
- e. Preparation of a CCD or ICD to correct a Trade Contractor Deficiency, or Trade Contractor Caused Notice of Non-Compliance (Article 7.3).
- f. Review of Incomplete Shop Drawings or Submittals, including the submission of Piecemeal Shop Drawings or Submittals unless piecemeal Submittals are specifically agreed upon by District (See Article 3.9)
- g. Services required by failure of the Trade Contractor to perform according to any provision of the Contract Documents.
- h. Services in connection with evaluating substitutions of products, materials, equipment, Subcontractors' proposed by the Trade Contractor, and making subsequent revisions to Drawings, Specifications, obtaining DSA approvals, DSA costs for review of CCD's, other governmental agency review costs, and providing other documentation required (except for the situation where the specified item is no longer manufactured or available). (See Article 3.10)
- i. Services for evaluating and processing Claims or Disputes submitted by the Trade Contractor in connection with the Work outside the established Change Order process.
- j. Services required by the failure of the Trade Contractor to prosecute the Work in a timely manner in compliance within the specified time of completion.
- k. Services in conjunction with the testing, adjusting, balancing and start-up of equipment other than the normal amount customarily associated for the type of Work involved.
- l. Services in conjunction with more than one (1) re-review of Submittals of Shop Drawings, Product Data, samples, RFI's etc.

4.6 DISPUTES AND CLAIMS

4.6.1 Decision of Architect

“Disputes” or “Claims” as defined in Article 4.6.9.1 between District and Trade Contractor involving money or time, including those alleging an error or omission by the Architect shall be referred initially to the Architect for action as provided in Article 4.6.2 within ten (10) days after Trade Contractor's Article 7 request for Change is denied. The CM shall receive the Dispute and may review and also assemble opinions and documents to assist the Architect. A decision by the Architect, as provided in Article 4.6.5, shall be required as a condition precedent to proceeding with remedies set forth in Article 4.6.9 as to all such matters arising prior to the date Retention Payment Application is due, regardless of whether such matters relate to execution and progress of the Work, or the extent to which the Work has reached Final Completion.

The condition precedent of an Architect decision shall be waived if: (1) the position of Architect is vacant; (2) the Architect has failed to take action required under Article 4.6.5 within the time periods required therein; or (3) the Dispute or Claim relates to a stop notice claim not arising from any extra Change Order or Immediate Change Directive for which approval has not been provided.

4.6.2 Architect's Review

The Architect (and CM) will review the Dispute and take one or more of the following preliminary actions upon receipt of a Dispute: (1) request additional supporting data from the claimant; (2) submit a schedule to the parties indicating when the Architect expects to take action; (3) reject the Dispute in whole or in part, stating reasons for rejection; (4) recommend approval of the Dispute; or (5) suggest a compromise. The Architect may also, but is not obligated to, notify the Surety, if any, of the nature and amount of the Dispute.

4.6.2.1 *Architectural Immunity.* Architect review of Disputes and Claims shall be impartial and meant to resolve Disputes and Claims. Pursuant to the case, Huber, Hunt & Nichols, Inc. v. Moore (1977) 67 Cal.App.3d 278, the Architect is provided a quasi-judicial immunity for interpreting and deciding Disputes and Claims between the District and Trade Contractor.

4.6.3 Documentation if Resolved

If a Dispute has been resolved, the Architect (and/or CM) will prepare a Change Order or obtain appropriate documentation to document the terms for Board approval.

4.6.4 Actions if Not Resolved

If a Dispute has not been resolved and all documentation requested pursuant to Article 4.6.2 has been provided, the Trade Contractor shall, within ten (10) days after the Architect's initial response, assemble all the documents involved in the Dispute including copies of all back-up documentation of costs and the basis for the Dispute and take one or more of the following actions: (1) modify the initial Dispute; (2) notify the Architect that the initial Dispute stands; or (3) supplement with additional supporting data and re-submit to the Architect under Article 4.6.2.

4.6.5 Architect's Written Decision

If a Dispute has not been resolved after consideration of the foregoing and of other evidence presented by the parties or requested by the Architect, the Architect (or Architect through CM) the Architect shall provide a written decision twenty (20) days after compliance with Article 4.6.4. Upon expiration of such time period, the Architect (or Architect through CM) will render to the parties its written decision relative to the Dispute, including any change in the Contract Sum or Contract Time or both. The Architect may also request reasonable additional time to complete Architect's written decision.

If the resolution of the Dispute by the Architect is not satisfactory to the Trade Contractor and copies of all back-up documentation of costs and the basis for the Dispute is fully articulated in a package of material that is complete, the Trade Contractor may then submit a Claim to the District under Article 4.6.9

4.6.6 Continuing Contract Performance

Pending final resolution of a Dispute or Claim, including, negotiation, mediation, arbitration, or litigation, the Trade Contractor shall proceed diligently with performance of the Contract, and the District shall continue to make any undisputed payments in accordance with the Contract (less any withholdings or offsets). If the Claim is not resolved, Trade Contractor agrees it will neither rescind the Contract nor stop the progress of the work, but Trade Contractor's sole remedy shall be to submit such controversy to determination by a court of competent jurisdiction in the county where the Project is located, after the Project has been completed, and not before.

4.6.6.1 *District's Option to Submit Individual Disputes to Arbitration during Claims and Disputes Process.* At the District's sole option, in order to more efficiently resolve Claims during the Project and prior to the completion of the Claims Process, pursuant to Government Code Section 9201, the District may submit individual Disputes or Claims for binding arbitration and Trade Contractor agrees to the resolution of for each individual Dispute or Claim by an Arbitrator, including resolution of time and delays. If binding arbitration is utilized for individual Disputes or Claims, such resolution is full and final as to that particular Dispute or Claim. THIS INDIVIDUAL DISPUTE ARBITRATION PROCESS IS NOT AN ARBITRATION CLAUSE AND SHALL NOT BE CONSTRUED AS AN AGREEMENT TO ARBITRATE. THIS INDIVIDUAL DISPUTES ARBITRATION PROCESS IS FOR THE SOLE PURPOSE OF STREAMLINING AND RESOLVING DISPUTES OR CLAIMS DURING CONSTRUCTION AND SHALL BE REQUESTED ON SPECIFIC INDIVIDUAL ITEMS BY THE DISTRICT PRIOR TO RETENTION PAYMENT (EVEN IF THERE ARE DEDUCTIONS MADE FROM RETENTION PAYMENT) WHICH REPRESENTS THE FINAL COMPLETION OF THE PROJECT.

- a. If there is no Retention remaining on the Project, individual Disputes initiated prior to Project Final Completion shall continue until a final disposition of the Arbitration or resolution of the individual Claim or Dispute.
- b. No Tolling. The Arbitration process shall not toll the Disputes or Claims process under Article 4.6 or the requirement to submit Claims to Court under Article 4.6.9.4.

4.6.7 Claims for Concealed Trenches or Excavations Greater Than Four Feet Below the Surface

When any excavation or trenching extends greater than four feet below the surface or if any condition involving hazardous substances are encountered:

- a. Immediately upon discovery, Trade Contractor shall promptly, and before the following conditions are disturbed, notify the District, by telephone and in writing, of the condition except:
 1. If such condition is a hazardous waste condition, Trade Contractor's bid includes removal or disposal of hazardous substances. Material that the Trade Contractor believes may be a material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing law. In such case, the notice bulletin procedures of Article 7 apply.

2. Subsurface or latent physical conditions at the Site differing from those indicated in the Drawings, Specifications, Soils Report, and from Trade Contractor's own investigation under Article 2.1.
 3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.
- b. The District shall investigate the conditions, and if District finds that the conditions do materially so differ, do involve hazardous waste, and cause a decrease or increase in Trade Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order or Construction Change Document under the procedures described in the Contract.
 - c. In the event that a dispute arises between the public entity or District and Trade Contractor whether the conditions materially differ, involve hazardous waste, or cause a decrease or increase in Trade Contractor's cost of, or time required for, performance of any part of the Work, Trade Contractor shall not be excused from any scheduled Completion Date provided for by the Contract, but shall proceed with all Work to be performed under the Contract. Trade Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

4.6.8 Dispute Concerning Extension of Time.

If Trade Contractor and District cannot agree upon an extension of time, whether compensable or not, then Trade Contractor must have first completed the procedures set forth in Article 8.4. Upon completion of the procedures set forth under Article 8.4, Trade Contractor must then comply with the requirements in this Article including those set forth under Article 4.6.9.

4.6.9 Claims Procedures

Pursuant to the remedies under Public Contract Code Section 9201 and Government Code Section 930.2, Trade Contractor, through execution of this Agreement, also agrees to comply with the Claims requirements of Article 4.6 to quickly and efficiently resolve disputes. Further, to provide a level of accuracy to the records submitted, the District shall have the right to audit books and records pursuant to Article 13.11 based on the actual costs incurred and to reduce the uncertainty in resolving disputes with limited information.

4.6.9.1 *Procedure Applicable to All Claims*

- a. Definition of Claim: A "Claim" is where a Dispute between the parties rises to the level where backup documentation is assembled and provided to the District as a separate demand by Trade Contractor for: (1) a time extension, including, without limitation, for relief from damages or penalties for delay assessed by the District under the Contract; (2) payment by the District of money or damages arising from Work done by or on behalf of Trade Contractor pursuant to the Contract and payment for which is not otherwise expressly provided for or to which the Trade Contractor is not otherwise entitled to; or (3) an amount

of payment disputed by the District. If the Claim is for damages associated with a DSA Stop Work Order, Trade Contractor shall not be entitled to a request for Compensation, but shall be entitled to utilize Governmental Delay Float (See Article 8.1.5.1.)

- b. Filing Claim Is Not Basis to Discontinue Work: Trade Contractor shall promptly comply with Work under the Contract or Work requested by the District even though a written Claim has been filed. Trade Contractor and the District shall make good faith efforts to resolve any and all Claims that may arise during the performance of the Work covered by this Contract.

- c. Claim Notification: Trade Contractor shall within seven (7) calendar days after the written decision of the Architect, or if the time period for Architect's decision has passed under Article 4.6.1, submit a notification in writing sent by registered mail or certified mail with return receipt requested, with the District (and the District's CM) stating clearly the basis for the Claim and including all relevant and required documents. If the notification is not submitted within seven (7) days after the written decision of the Architect or the passage of time under Article 4.6.1, Trade Contractor shall be deemed to have waived all right to assert the Claim, and the Claim shall be denied. Claims submitted after the Retention Payment date shall also be considered null and void by the District. All Claims shall be reviewed pursuant to Article 4.6.1 through 4.6.5.

The Formal Notification of Claim must be presented as follows:

- (1) The term "Claim" must be at the top of the page in no smaller than 20 point writing.
 - (2) All documentation submitted pursuant to Article 4.6 to the Architect shall be submitted with the "Claim."
 - (3) A stack of documents, copy of all Project documents, or the submission of random documents shall not constitute an adequate reference to supporting documentation.
 - (4) Any additional or supporting documentation that Trade Contractor believes is relevant should be submitted at this time.
-
- d. Reasonable Documents to Support Claim: The Trade Contractor shall furnish reasonable documentation to support the Claim. Trade Contractor shall provide all written detailed documentation which supports the Claim, including but not limited to: arguments, justifications, cost, estimates, Schedule analysis and detailed documentation. The format of the required reasonable documentation to support the Claim shall include, without limitation:
 - 1. Cover letter.

2. Summary of factual basis of Claim and amount of Claim.
3. Summary of the basis of the Claim, including the specific clause and section under the Contract under which the Claim is made.
4. Documents relating to the Claim, including:
 - a. Specifications sections in question.
 - b. Relevant portions of the Drawings
 - c. Applicable Clarifications (RFI's)
 - d. Other relevant information, including responses that were received.
 - e. Trade Contractor Analysis of Claim merit.
 - (a) Trade Contractor's analysis of any Subcontractor vendor Claims that are being passed through.
 - (b) Any analysis performed by outside consultants
 - (c) Any legal analysis that Trade Contractor deems relevant
 - f. Break down of all costs associated with the Claim.
 - g. For Claims relating to time extensions, an analysis and supporting documentation evidencing any effect upon the critical path in conformance with the requirements of Article 8.4 chronology of events and related correspondence.
 - i. Applicable Daily Reports and logs.
 - (a) If the Daily Reports or Logs are not available, lost or destroyed, there shall be a presumption that the lost documentation was unfavorable to Trade Contractor. See California Civil Jury Instruction 204.
 - j. For Claims involving overhead, cost escalation, acceleration, disruption or increased costs, a full version of job costs reports organized by category of work or Schedule of Values with budget information tracked against actual costs. Any and all supporting back-up data, including the original bid (and associated original unaltered metadata).
 - (a) The metadata and bid information shall be provided confidentially and subject to a protective order to prevent dissemination to other contractors or to the public. However, the bid documentation should remain intact and available for review and inspection in case of this type of increased cost Claim.
 - (b) This data on the bid shall be made available to any District attorneys or experts and shall also be utilized as evidence for any legal proceedings.
 - (c) If the bid documentation is not available, lost or destroyed, there shall be a presumption that the

lost bid documentation was unfavorable to Trade Contractor. See California Civil Jury Instruction 204.

- e. Certification: Trade Contractor (and Subcontractors, if applicable) shall submit with the Claim a certification under penalty of perjury:
 - 1. That Trade Contractor has reviewed the Claim and that such Claim is made in good faith;
 - 2. Supporting data are accurate and complete to the best of Trade Contractor's knowledge and belief;
 - 3. The amount requested accurately reflects the amount of compensation for which Trade Contractor believes the District is liable.
 - 4. That Trade Contractor is familiar with Government Code Sections 12650 et seq. and Penal Code Section 72 and that false claims can lead to substantial fines and/or imprisonment.
- f. Signature of Certification: If Trade Contractor is not an individual, the certification shall be executed by an officer or general partner of Trade Contractor having overall responsibility for the conduct of Trade Contractor's affairs.
- g. Upon receipt of a Claim and all supporting documents as required above, the District shall conduct a reasonable review of the Claim and, within a period not to exceed 45 days, shall provide the Trade Contractor a written statement identifying what portion of the Claim is disputed and what portion is undisputed. Upon receipt of a Claim, the District and Trade Contractor may, by mutual agreement, extend the time period provided in this paragraph.
- h. If the District needs approval from its governing Board to provide the Trade Contractor a written statement identifying the disputed portion and the undisputed portion of the Claim, and the governing Board does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a Claim sent by registered mail or certified mail, return receipt requested, the District shall have up to three days following the next duly publicly noticed meeting of the governing Board after the 45-day period, or extension, expires to provide the Trade Contractor a written statement identifying the disputed portion and the undisputed portion.
- i. Any payment due on an undisputed portion of the Claim shall be processed and made within 60 days after the District issues its written statement. If the District fails to issue a written statement, paragraph o below shall apply.

- j. If the Trade Contractor disputes the District's written response, or if the District fails to respond to a Claim issued pursuant to this Article 4.6.9 within the time prescribed, the Trade Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the District shall schedule a meet and confer conference within 30 days for settlement of the Claim.
- k. Within 10 business days following the conclusion of the meet and confer conference, if the Claim or any portion of the Claim remains in dispute, the District shall provide the Trade Contractor a written statement identifying the portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the Claim shall be processed and made within 60 days after the District issues its written statement. Any disputed portion of the Claim, as identified by the Trade Contractor in writing, shall be submitted to nonbinding mediation, with the District and the Trade Contractor sharing the associated costs equally. The District and Trade Contractor shall mutually agree to a mediator within 10 business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the Claim remaining in dispute shall be subject to applicable procedures in Article 4.6.9.4.
- l. For purposes of this Article 4.6.9, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.
- m. Unless otherwise agreed to by the District and the Trade Contractor in writing, the mediation conducted pursuant to this Article 4.6.9 shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.
- n. This Claims process does not preclude the District from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this Article 4.6.9 does not resolve the parties' Claim. This Claims process does not preclude the District from submitting individual Disputes or Claims to binding arbitration pursuant to Article 4.6.9.3 below.
- o. Failure by the District to respond to a Claim from the Trade Contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this Article 4.6.9 shall result in

the Claim being deemed rejected in its entirety. A Claim that is denied by reason of the District's failure to have responded to a Claim, or its failure to otherwise meet the time requirements of this Article 4.6.9, shall not constitute an adverse finding with regard to the merits of the Claim or the responsibility or qualifications of the Trade Contractor.

- p. If a subcontractor or a lower tier subcontractor lacks legal standing to assert a Claim against a District because privity of contract does not exist, the Trade Contractor may present to the District a Claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the Trade Contractor present a Claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the Claim be presented to the District shall furnish reasonable documentation to support the Claim. Within 45 days of receipt of this written request, the Trade Contractor shall notify the subcontractor in writing as to whether the Trade Contractor presented the Claim to the District and, if the Trade Contractor did not present the Claim, provide the subcontractor with a statement of the reasons for not having done so.
- q. Upon receipt of a Claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable.
- r. The Trade Contractor's Claim shall be denied if it fails to follow the requirements of this Article.

4.6.9.2 District (through CM or District's Agent or Attorney) May Request Additional Information: Within thirty (30) days of receipt of the Claim and the information under this Article, the District may request in writing any additional documentation supporting the Claim or documentation relating to defenses to the Claim which the District may assert. If additional documents are required, the time in which the Claim is evaluated may be extended by a reasonable time so the Claim and additional documents may be reviewed.

4.6.9.3 *Claims Procedures in Addition to Government Code Claim.* Nothing in the claims procedures set forth in this Article 4 of the General Conditions shall act to waive or relieve Trade Contractor from meeting the requirements set forth in Government Code Section 900 et seq.

4.6.9.4 *Binding Arbitration of Individual Claim Issues.* To expedite resolution of Claims pursuant to Public Contract Code Section 9201, at the District's sole option, the District may submit individual Claims to Arbitration prior to Retention Payment consistent with the requirements of Article 4.6.6.1.

4.6.9.5 *Resolution of Claims in Court of Competent Jurisdiction.* If Claims are not resolved under the procedure set forth and pursuant to Article 4.6.9, such Claim or controversy shall be submitted to a court in the County of the location of the Project after the Project has been completed, and not before.

4.6.9.6 *Warranties, Guarantees and Obligations.* The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon Trade Contractor by the General Conditions and amendments thereto; and all of the rights and remedies available to District and Architect thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this Article will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply.

ARTICLE 5 SUBCONTRACTORS

5.1 DEFINITIONS

5.1.1 Subcontractual Relations Bound to Same Contract Terms at Trade Contractor

By appropriate agreement, written where legally required for validity, Trade Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to Trade Contractor by terms of the Contract Documents, and to assume toward Trade Contractor all the same obligations and responsibilities, assumed by Trade Contractor pursuant to the Contract Documents. Each subcontract agreement shall preserve and protect the rights of the District and the Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, Trade Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. Trade Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound. Upon written request of the Subcontractor, Trade Contractor shall identify to the Subcontractor the terms and conditions of the proposed subcontract agreement, which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

5.1.2 Subcontractor Licenses and DIR Registration

All Subcontractors shall be properly licensed by the California State Licensing Board. All subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. No portion of the Work is permitted to be performed by a subcontractor of any tier unless the subcontractor is properly registered with DIR. Any subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1.

5.1.3 Substitution of Subcontractor

Substitution of Subcontractors shall be permitted only as authorized under Public Contract Code §§ 4107 et seq. Any substitutions of Subcontractors shall not result in any increase in the Contract Price or result in the granting of any extension of time for the completion of the Project.

5.1.4 Contingent Assignment of Subcontracts and Other Contracts

Each subcontract, purchase order, vendor contract or agreement for any portion of the Work is hereby assigned by Trade Contractor to the District provided that:

- a. Such assignment is effective only after Termination of this Contract with Trade Contractor by the District as provided under Article 14 and only for those subcontracts and other contracts and agreements that the District accepts by notifying the Subcontractor or Materialman (as may be applicable) in writing; and

- b. Such assignment is subject to the prior rights of the Surety(ies) obligated under the Payment Bond and Performance Bond.
- c. Trade Contractor shall include adequate provisions for this contingent assignment of subcontracts and other contracts and agreements in each such document.

**ARTICLE 6
CONSTRUCTION BY DISTRICT OR BY SEPARATE CONTRACTORS**

6.1 DISTRICT'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 Separate Contracts.

6.1.1.1 Trade Contractor is fully aware that there will be other Trade Contractors working on the Project. District specifically reserves the right to let other contracts in connection with this Work. Trade Contractor shall afford other contractors reasonable opportunity for (1) introduction and storage of their materials; (2) access to the Work; and (3) execution of their work. Trade Contractor shall properly connect and coordinate its work with that of other Contractors and Trade Contractors.

6.1.1.2 If any part of Trade Contractor's Work depends on proper execution or results of any other contractor, Trade Contractor shall inspect and within seven (7) days or less, report to Architect, in writing, any defects in such work that render it unsuitable for proper execution of Trade Contractor's Work. Trade Contractor will be held accountable for damages to District for that Work which it failed to inspect or should have inspected. Trade Contractor's failure to inspect and report shall constitute its acceptance of other contractors' Work as fit and proper for reception of its Work, except as to defects which may develop in other contractors' work after execution of the other contractor's work.

6.1.1.3 To ensure proper execution of its subsequent Work, Trade Contractor shall measure and inspect Work already in place and shall at once report to the CM and Architect in writing any discrepancy between executed Work as built and the Contract Documents.

6.1.1.4 Trade Contractor shall ascertain to its own satisfaction the scope of the Project and nature of any other contracts that have been or may be awarded by District in prosecution of the Project and the potential impact of such Work on the Project Baseline Schedule or Schedule updates. Trade Contractor shall take into account coordination with other contractors and interface between Trade Contractor and other contractors work and identify these coordination and conflict possibilities in the Trade Contractor's Baseline Schedule that is submitted.

6.1.1.5 Nothing herein contained shall be interpreted as granting to Trade Contractor the exclusive occupancy at the site of Project. Trade Contractor shall not cause any unnecessary hindrance or delay to any other contractor working on the Project Site. If execution of any contract by the District is likely to cause interference with Trade Contractor's performance of this Contract, once Trade Contractor provides District timely written notice and identifies the interference that is likely to be caused or the Schedule Conflict, CM and District shall decide which contractor shall cease work temporarily and which contractor shall continue, or whether Work can be coordinated so that contractors may proceed simultaneously.

6.1.1.6 District shall not be responsible for any damages suffered or extra costs incurred by Trade Contractor resulting directly or indirectly from award or performance or attempted performance of any other contract or contracts at the Project necessary for the performance of the Project (examples include Electrical Utility Contractor, separate offsite contractor, a separate grading contractor, furniture installation etc).

**TRADE CONTRACTOR IS AWARE THAT THIS CONTRACT WILL INVOLVE
MULTIPLE TRADE CONTRACTORS WORKING TOGETHER AND THAT
THE WORK MAY BE SPLIT INTO SEVERAL PHASES BASED ON**

DOCUMENTATION PROVIDED WITH THIS BID OR DISCUSSED AT THE JOB WALK. TRADE CONTRACTOR HAS MADE ALLOWANCE FOR ANY DELAYS OR DAMAGES WHICH MAY ARISE FROM COORDINATION WITH CONTRACTORS REQUIRED FOR OTHER PHASES. IF ANY DELAYS SHOULD ARISE FROM ANOTHER CONTRACTOR WORKING ON A DIFFERENT PHASE, TRADE CONTRACTOR'S SOLE REMEDY FOR DAMAGES, INCLUDING DELAY DAMAGES, SHALL BE AGAINST THE CONTRACTOR WHO CAUSED SUCH DAMAGE AND NOT THE DISTRICT. CONTRACTOR SHALL PROVIDE ACCESS TO OTHER CONTRACTORS FOR OTHER PHASES AS NECESSARY TO PREVENT DELAYS AND DAMAGES TO OTHER CONTRACTORS WORKING ON OTHER PHASES OF CONSTRUCTION.

6.1.2 District's Right to Carry Out the Work

(See Article 2.2)

6.1.3 Designation as Contractor

When separate contracts are awarded to contractors on the Project Site, the term "Contractor" in the Contract Documents in each case shall mean other Trade Contractors or other Contractors who executes each separate District/Contractor Agreement.

6.1.4 District Notice to Trade Contractor of Other Contractors

The Trade Contractor shall have overall responsibility to reasonably coordinate and schedule Trade Contractor's activities with the activities of the District's forces and of each separate contractor with the Work of the Trade Contractor, who shall cooperate with them. Trade Contractor shall participate with other separate contractors and the District in reviewing their construction schedules when:

- 6.1.4.1 Notice is provided in the Contract Documents of other scope of Work,
- 6.1.4.2 In the case where there is known Work to be performed by other Contractors
- 6.1.4.3 For outside contractors hired by utilities
- 6.1.4.4 Where the Contract Document provides "Work by Others" or "By Others"
- 6.1.4.5 Where specifically noted during the Pre-Bid Conference
- 6.1.4.6 Where specifically noted in the Mandatory Job Walk
- 6.1.4.7 By CO or ICD,
- 6.1.4.8 With respect to the installation of :
 - a. Furniture,
 - b. Electronics and networking equipment,
 - c. Cabling,
 - d. Low voltage,
 - e. Off-site work,
 - f. Grading (when by a separate contractor),
 - g. Environmental remediation when excluded by the Contract Documents (i.e. asbestos, lead or other hazardous waste removal)
 - h. Deep cleaning crews,
 - i. Commissioning and testing,
 - j. Keying and re-keying,
 - k. Programming

6.1.4.9 Exception where no Coordination is Required on the Part of Trade Contractor for Turn Key Operations. If the Trade Contractor has specifically outlined a “Turn Key” or “Complete Delivery” of a final completed operational school in writing as part of the Trade Contractor Baseline Schedule.

6.1.4.10 Trade Contractor shall make any revisions to the Trade Contractor Baseline Schedule (or Schedule Update) deemed necessary after a joint review with CM and District and mutual agreement. The Project Baseline Schedule (or Schedule Update) shall then constitute the schedule to be used by Trade Contractor, separate contractors, and the District until subsequently revised. Additionally, Trade Contractor shall coordinate with CM, Architect, District, and Inspector to ensure timely and proper progress of Work.

6.2 CONSTRUCTIVE OWNERSHIP OF PROJECT SITE AND MATERIAL

Upon commencement of Work, the Trade Contractor becomes the constructive owner of the entire site, improvements, material and equipment on Project site. Trade Contractor must ensure proper safety and storage of all materials and assumes responsibility as if Trade Contractor was the owner of the Project site. All risk of loss or damage shall be borne by Trade Contractor during the Work until the date of Completion. As constructive owner of the Project site, Trade Contractor must carry adequate insurance in case of calamity and is not entitled to rely on the insurance requirements as set forth in this Agreement as being adequate coverage in case of calamity.

6.3 DISTRICT’S RIGHT TO CLEAN UP

If a dispute arises among the Trade Contractor, separate contractors, and the CM and District as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish as described in Article 3.13, the District may clean up and allocate the cost among those it deems responsible.

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ARTICLE 7 CHANGES IN THE WORK

7.1 CHANGES

7.1.1 No Changes Without Authorization

There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order, Change Order Request, Immediate Change Directive, or order by the Architect for a minor change in the Work as herein provided. District shall not be liable for the cost of any extra work or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's Governing Board or designated representative with delegated authority (subject to Board ratification) has authorized the same and the cost thereof approved in writing by Change Order or executed Construction Change Document. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications. Notwithstanding anything to the contrary in this Article 7, all Change Orders shall be prepared and issued by the Architect and shall become effective when approved by the District's Governing Board, the Architect, and Trade Contractor.

Should any Change Order result in an increase in the Contract Price, the cost of such Change Order shall be agreed to, in writing, in advance by Trade Contractor and District and be subject to the monetary limitations set forth in Public Contract Code Section 20118.4 (Please check with the District since there are different interpretations of the limitations of Public Contract Code Section 20118.4 depending on the County the Project is located). In the event that Trade Contractor proceeds with any change in Work without first notifying District and obtaining the Architect's and District's consent to a Change Order, Trade Contractor waives any Claim of additional compensation for such additional work and Trade Contractor takes the risk that a Notice of Non-Compliance may issue, a critical path Project delay may occur, and Trade Contractor will also be responsible for the cost of preparation and DSA CCD review fees for a corrective DSA approved Construction Change Document.

TRADE CONTRACTOR UNDERSTANDS, ACKNOWLEDGES, AND AGREES THAT THE REASON FOR THIS NOTICE REQUIREMENT IS SO THAT DISTRICT MAY HAVE AN OPPORTUNITY TO ANALYZE THE WORK AND DECIDE WHETHER THE DISTRICT SHALL PROCEED WITH THE CHANGE ORDER OR ALTER THE PROJECT SO THAT SUCH CHANGE IN WORK BECOMES UNNECESSARY AND TO AVOID THE POSSIBLE DELAYS ASSOCIATED WITH THE ISSUANCE OF A NOTICE OF NON-COMPLIANCE.

7.1.2 Notices of Non-Compliance

Trade Contractor deviation or changes from approved Plans and Specifications may result in the issuance of a Notice of Non-Compliance (See DSA Form 154). Trade Contractor is specifically notified that deviations from the Plans and Specifications, whether major or minor, may result in the requirement to obtain a DSA Construction Change Document to correct the Notice of Non-Compliance. (See Article 7.3.1 for Definition of CCD). In some cases, the lack of a DSA approved CCD AND verification from the Inspector that a Notice of Non-Compliance has been corrected may result in a critical path delay to the next stage of Work on the Project. Specifically, a deviation from approved Plans and Specifications may prevent approval of the category of Work listed in the DSA 152 Project

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Inspection Card. Any delays that are caused by Trade Contractor's deviation from approved Plans and Specifications shall be Trade Contractor's responsibility.

7.1.3 Architect Authority

The Architect will have authority to order minor changes in the Work that do not involve DSA Approval not involving any adjustment in the Contract Sum, or an extension of the Contract Time.

7.2 CHANGE ORDERS ("CO")

A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), Trade Contractor, and the Architect stating their agreement upon all of the following:

- a. A description of a change in the Work;
- b. The amount of the adjustment in the Contract Sum, if any; and
- c. The extent of the adjustment in the Contract Time, if any.

A CO may be comprised of ICD's, Response to RFP's and COR's

7.3 CONSTRUCTION CHANGE DOCUMENT (CCD Category A, and CCD Category B) and IMMEDIATE CHANGE DIRECTIVE (ICD)

7.3.1 Definitions

7.3.1.1 *Construction Change Document (CCD)*. A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A for Work affecting structural, access or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no Approval is required). Both CCD Category A and Category B shall be set forth in DSA Form 140 and submitted to DSA as required.

7.3.1.2 *Immediate Change Directive (ICD)*. An Immediate Change Directive is a written order to Trade Contractor prepared by the Architect and signed by the District and CM and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly.

In the case of an Immediate Change Directive being issued, Trade Contractor must commence Work immediately or delays from failure to perform the ICD shall be the responsibility of Trade Contractor and the failure to move forward with Work immediately shall also be grounds for Termination under Article 14.

An ICD does not automatically trigger an Article 7.6 Dispute or Claim. Trade Contractor must timely follow the procedures outlined at Article 7.6 and 4.6 where applicable.

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Refer to Division 1 and Supplementary General Conditions for a copy of the proposed Immediate Change Directive form.

7.3.2 Use to Direct Change

An ICD shall be used to move work forward immediately and to avoid delay. In some cases, an ICD shall be issued in the absence of agreement on the terms of a CO, COR, or RFP. A copy of an ICD form is provided in the Supplementary General Conditions and Division 1. The anticipated not to exceed price for the Work will be inserted into the ICD. In the case of an ICD issued to correct Trade Contractor Deficiencies or to correct a Trade Contractor caused Notice of Non-Compliance, the ICD may be issued with \$0 and no additional time. Contract may prepare a COR associated with the ICD pursuant to Article 7. However, Trade Contractor shall proceed with all Work required under an Approved ICD immediately upon issuance. Failure to proceed with the Work under an ICD shall be grounds for Termination for Cause under Article 14 or take over the Work under Article 2.2.

If adequate time exists, an ICD may be subject of an RFP for pricing and determination if any time that may be required. However, if an RFP is not completed, Trade Contractor shall immediately commence Work when an ICD is issued. If the RFP is incomplete, it may still be completed to be submitted for pricing purposes as long as the RFP is submitted within the timeline provided by the RFP, or within 10 days following issuance of the ICD.

7.3.3 ICD Issued Over a Notice of Non-Compliance or to Cover Work Subject to a DSA 152 Sign Off

In some cases, an ICD shall be for the purpose of proceeding with Work to keep the Project on Schedule and as an acknowledgement by the District that Trade Contractor is proceeding with Work contrary to a Notice of Non-Compliance, prior to issuance of a DSA approved CCD Category A, or to direct the covering of Work which has not yet received a DSA 152 Inspection Approval to move forward.

7.3.3.1 Trade Contractor Compliance with all Aspects of an ICD. Trade Contractor is to undertake the ICD and comply with all aspects of the Work outlined in the ICD. Inspector is to inspect the Work pursuant to the ICD. Failure to follow the ICD may result in deduction of the ICD Work under Article 2.2 or Termination of the Trade Contractor pursuant to Article 14.

7.3.3.2 Exception in the Case of DSA Issued Stop Work Order. Trade Contractor must proceed with an ICD even if a CCD has not been approved by DSA except in the case of a DSA issued Stop Work Order. If a DSA Stop Work Order is issued, Trade Contractor must stop work and wait further direction from the District.

7.3.3.3 ICD Due to Trade Contractor Deficiency or Trade Contractor Caused Notice of Non-Compliance. If an ICD is issued to correct a Trade Contractor Deficiency or a Trade Contractor caused notice of Non-Compliance, Trade Contractor specifically acknowledges responsibility for all consequential damages associated with Trade Contractor Deficiency or Trade Contractor caused Notice of Non-Compliance and all consequential damages and costs incurred to correct the deficiency under Article 4.5.

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7.4 REQUEST FOR INFORMATION (“RFI”)

7.4.1 Definition

A RFI is a written request prepared by Trade Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which Trade Contractor believes is not clearly shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions.

7.4.1.1 A RFI shall not be used as a vehicle to generate time extensions.

7.4.1.2 Resubmission of the same or similar RFI is not acceptable. RFI’s that are similar should be addressed in Project meetings where the requestor (Trade Contractor, Subcontractor or vendor) is able to address the particular issue with the Architect or Engineer and a resolution addressed in the minutes.

7.4.1.3 A RFI response applicable to a specific area cannot be extended to other situations unless specifically addressed in writing within the RFI or in a separate RFI.

7.4.1.4 RFI’s should provide a proposed solution and should adequately describe the problem that has arisen.

7.4.2 Scope

The RFI shall reference all the applicable Contract Documents including Specification section, detail, page numbers, Drawing numbers, and sheet numbers, etc. Trade Contractor shall make suggestions and interpretations of the issue raised by the RFI. An RFI cannot modify the Contract Cost, Contract Time, or the Contract Documents.

7.4.3 Response Time

The Architect must respond to a RFI within a reasonable time after receiving such request. If the Architect’s response results in a change in the Work, then such change shall be effected by a written CO, COR RFP or ICD, if appropriate. If the Architect cannot respond to the RFI within a reasonable time, the Architect shall notify Trade Contractor, with a copy to the Inspector and the District, of the amount of time that will be required to respond.

7.4.4 Costs Incurred

Trade Contractor shall be responsible for any costs incurred for professional services as more fully set forth in Article 4.5, which shall be subject to a Deductive Change Order, if an RFI requests an interpretation or decision of a matter where the information sought is equally available to the party making such request. District, at its sole discretion, shall issue a Deductive Change Order to Trade Contractor for all such professional services arising from this Article.

7.5 REQUEST FOR PROPOSAL (“RFP”)

7.5.1 Definition

A RFP is a written request prepared by the Architect (and/or CM) requesting Trade Contractor to submit to the District and the Architect an estimate of the effect of a proposed change on the

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Contract Price and (if applicable) the Contract Time. If Architect issues a Bulletin, the Changed items in the Bulletin shall be addressed as an RFP and all responses shall be prepared to a Bulletin as addressed in this Article 7.5. A form RFP is included in the Division 1 documents.

7.5.2 Scope

A RFP shall contain adequate information, including any necessary Drawings and Specifications, to enable Trade Contractor to provide the cost breakdowns required by Article 7.7. Trade Contractor shall not be entitled to any Additional Compensation for preparing a response to an RFP, whether ultimately accepted or not.

7.5.3 Response Time

Trade Contractor shall respond to an RFP within ten (10) days or the time period otherwise set forth in the RFP.

7.6 CHANGE ORDER REQUEST (“COR”)

7.6.1 Definition

A COR is a written request prepared by Trade Contractor supported by backup documentation requesting that the District and the Architect issue a CO based upon a proposed change, cost, time, or cost and time that may be incurred on the Project or arising from an RFP, ICD, or CCD.

7.6.2 Changes in Price

A COR shall include breakdowns per Article 7.7 to validate any change in Contract Price due to proposed change or Claim.

7.6.3 Changes in Time

A COR shall also include any additional time required to complete the Project only if the delay is a critical path delay. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined in Article 8. A schedule fragnet showing the time delay must be submitted with the COR. Any changes in time will be granted only if there is an impact to the critical path. If Trade Contractor fails to request a time extension in a COR, then Trade Contractor is thereafter precluded from requesting or claiming a delay.

7.7 COST OF CHANGE ORDERS

7.7.1 Scope

Within ten (10) days after a request is made for a change that impacts the Contract Sum as defined in Article 9.1, the critical path, or the Contract Time as defined in Article 8.1.1, Trade Contractor shall provide the District and the Architect, with a written estimate of the effect of the proposed CO upon the Contract Sum and the actual cost of construction, which shall include a complete itemized cost breakdown of all labor and material showing actual quantities, hours, unit prices, and wage rates required for the change, and the effect upon the Contract Time of such CO. Changes may be made by District by an appropriate written CO, or, at the District’s option, such changes shall be implemented immediately upon Trade Contractor’s receipt of an appropriate written Construction Change Document.

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District may, as provided by law and without affecting the validity of this Agreement, order changes, modification, deletions and extra work by issuance of written CO or CCD from time to time during the progress of the Project, Contract Sum being adjusted accordingly. All such Work shall be executed under conditions of the original Agreement except that any extension of time caused thereby shall be adjusted at time of ordering such change. District has discretion to order changes on a “time and material” basis with adjustments to time made after Trade Contractor has justified through documentation the impact on the critical path of the Project.

7.7.1.1 *Time and Material Charges.* If the District orders Work on a “time and material” basis, timesheets shall be signed daily by the Inspector or District Representative at or near the time the Work is actually undertaken and shall show the hours worked, and the Work actually completed. No time sheets shall be signed the next day. A copy shall be provided to the Person signing the document at the time the document is signed, but not before 10 am the following day.

7.7.2 Determination of Cost

The amount of the increase or decrease in the Contract Price from a CO or COR, if any, shall be determined in one or more of the following ways as applicable to a specific situation:

- a. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation. If an agreement cannot be reached within fifteen (15) days after submission and negotiation of Trade Contractor’s proposal, Trade Contractor may submit pursuant to Article 7.7.3. Submission of sums which have no basis in fact are at the sole risk of Trade Contractor and may be a violation of the False Claims Act set forth under Government Code Section 12650 et seq.);
 1. If the District objects to 7.7.2(a) as a method for submission due to inaccuracies in the submitted amount, overstatement of manpower or time required to perform the CO, or unreliability of the data provided, the District may either have the Architect or a professional estimator determine the cost for the CO, and the applicable time extension, or the Trade Contractor shall utilize Article 7.7.2(d) or 7.7.3.
 2. Once the District provides a written objection to use of Article 7.7.2(a) due to unreliability of the estimated price, the Trade Contractor shall no longer utilize mutual acceptance of a lump sum as a method for submission of CO’s and shall provide a breakdown of estimated or actual costs pursuant to Article 7.7.2(d) or 7.7.3.
- b. By unit prices contained in Trade Contractor’s original bid and incorporated in the Project documents or fixed by subsequent agreement between District and Trade Contractor;
- c. Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee. However, in the case of disagreement, Trade Contractor must utilize the procedure under Article 7.7.3; or
- d. By cost of material and labor and percentage of overhead and profit. If the value is determined by this method the following requirements shall apply:

GENERAL CONDITIONS

1. *Basis for Establishing Costs*

- i. Labor will be the cost for wages prevailing locally for each craft or type of workers at the time the extra Work is done, plus employer payments of payroll taxes and workers compensation insurance (exclude insurance costs as part of the overhead and profit mark-up), health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State, or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. In no case shall the total labor costs exceed the applicable prevailing wage rate for that particular classification. The use of a labor classification which would increase the extra Work cost will not be permitted unless Trade Contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental.
- ii. Materials shall be at invoice or lowest current price at which such materials are locally available and delivered to the Site in the quantities involved, plus sales tax, freight, and delivery. The District reserves the right to approve materials and sources of supply or to supply materials to Trade Contractor if necessary for the progress of the Work. No markup shall be applied to any material provided by the District.
- iii. Tool and Equipment Rental. No payment will be made for the use of tools which have a replacement value of \$250 or less.

Regardless of ownership, the rates to be used in determining equipment rental costs shall not exceed listed rates prevailing locally at equipment rental agencies or distributors at the time the Work is performed. Rates applied shall be appropriate based on actual equipment need and usage. Monthly, weekly or other extended use rates that results in the lowest cost shall be applied if equipment is used on site for extended periods.

The rental rates paid shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance and all incidentals.

Necessary loading and transportation costs for equipment used on the extra Work shall be included. If equipment is used intermittently and, when not in use, could be returned to its rental source at less expense to the District than holding it at the Work Site, it shall be returned unless Trade Contractor elects to keep it at the Work Site at no expense to the District.

All equipment shall be acceptable to the Inspector, in good working condition, and suitable for the purpose for which it is to be used.

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Manufacturer’s ratings and modifications shall be used to classify equipment, and equipment shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

If tool and equipment charges are part of a Dispute, Claim, or Appeal, the District reserves the right to utilize actual costs for tools and equipment or a depreciation rate for equipment based on audit finding under Article 13.11 and deduct any rental charges that exceed actual or depreciated costs.

- e. Other Items. The District may authorize other items which may be required on the extra work. Such items include labor, services, material, and equipment which are different in their nature from those required by the Work, and which are of a type not ordinarily available from Trade Contractor or any of the Subcontractors. Invoices covering all such items in detail shall be submitted with the request for payment.
- f. Invoices. Vendors’ invoices for material, equipment rental, and other expenditures shall be submitted with the COR. If the request for payment is not substantiated by invoices or other documentation, the District may establish the cost of the item involved at the lowest price which was current at the time of the Daily Report.
- g. Overhead. Overhead, including direct and indirect costs, shall be submitted with the COR and include: field overhead, home office overhead, off-site supervision, CO preparation/negotiation/research, time delays, Project interference and disruption, additional guaranty and warranty durations, on-site supervision, additional temporary protection, additional temporary utilities, additional material handling costs, liability and property damage insurance, and additional safety equipment costs.

7.7.3 Format for COR or CO’s

The following format shall be used as applicable by the District and Trade Contractor to communicate proposed additions to the Contract. All costs submitted shall be actual costs and labor shall be unburdened labor. Refer to Division 1 for a copy of the Construction Change Order form.

		<u>EXTRA</u>	<u>CREDIT</u>
(a)	Material (attach itemized quantity and unit cost plus sales tax)	_____	_____
(b)	Labor Not to Exceed Applicable Prevailing Wage Rates (attach itemized hours and rates)	_____	_____
(c)	Equipment (attach invoices)	_____	_____
(d)	Subtotal	_____	_____

GENERAL CONDITIONS

		<u>EXTRA</u>	<u>CREDIT</u>
(e)	If Subcontractor performed work, add Subcontractor's overhead and profit to portions performed by Subcontractor, not to exceed 10% of item (d).		
(f)	Subtotal		
(g)	Contractor's Overhead and Profit: Not to exceed 10% of Item (d) if Contractor performed the work. No more than 5% of Item (d) if Subcontractor performed the work. If work was performed by Contractor and Subcontractors, portions performed by Contractor shall not exceed 10% of Item (d), and portions performed by Subcontractor shall not exceed 10% of Item (d).		
(h)	Subtotal		
(i)	Bond not to exceed one percent (1%) of Item (h)		
(k)	TOTAL		
(l)	Time/Days		

The undersigned Trade Contractor approves the foregoing Change Order or Immediate Change Directive as to the changes, if any, and the Contract Price specified for each item and as to the extension of time allowed, if any, for completion of the entire Work on account of said Change Order or Immediate Change Directive, and agrees to furnish all labor, materials and service and perform all Work necessary to complete any additional Work specified therein, for the consideration stated herein. It is understood that said Change Order or Immediate Change Directive shall be effective when approved by the Governing Board of the District.

It is expressly understood that the value of such extra Work or changes, as determined by any of the aforementioned methods, expressly includes any and all of the Trade Contractor's costs and expenses, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages or time extensions not included are deemed waived.

GENERAL CONDITIONS

Trade Contractor expressly acknowledges and agrees that any change in the Work performed shall not be deemed to constitute a delay or other basis for claiming additional compensation based on theories including, but not limited to, acceleration, suspension or disruption to the Project.

7.7.3.1 *Adjustment for Time and Compensable Delay.* A CO shall also include any additional time required to complete the Project. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined in Article 8 of the General Contract. A schedule fragnet showing the time delay must be submitted with the CO. Any changes in time will be granted only if there is an impact to the critical path. If Trade Contractor fails to request a time extension in a CO, then Trade Contractor is thereafter precluded from requesting or claiming a delay.

7.7.4 Deductive Change Orders

All Deductive Change Order(s) must be prepared utilizing the form under Article 7.7.3 (a) – (d) only, setting forth the actual costs incurred. Except in the case of an Article 2.2 or 9.6 Deductive Change Order where no mark-up shall be allowed, Trade Contractor will be allowed a maximum of 5% total profit and overhead.

For unilateral Deductive Change Orders, or where credits are due from Trade Contractor for Allowances, Deductive Items, Inspection, Damage, DSA CCD review costs, Architect or Inspector costs for after hours or corrective services, Work removed from the Agreement under Article 2.2 or Article 9.6, there shall be no mark-up.

District may, any time after a Deductive Change Order is presented to Trade Contractor by District for items under Article 2.2 or Article 9.6 of if there is disagreement as to the Deductive Change Order, issue a unilateral Deductive Change Order on the Project and deduct the Deductive Change Order from a Progress Payment, Final Payment, or Retention.

7.7.5 Discounts, Rebates, and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to Trade Contractor, and Trade Contractor shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of Trade Contractor's cost in determining the actual cost of construction for purposes of any change, addition, or omissions in the Work as provided herein. All CO's are subject to Audit under Article 13.11 for discounts, rebates and refunds.

With respect to portions of the Work performed by COs and CCD's on a time-and-materials, unit-cost, or similar basis, Trade Contractor shall keep and maintain cost-accounting records in a format consistent with accepted accounting standards and satisfactory to the District, which shall be available to the District on the same terms as any other books and records Trade Contractor is required to maintain under the Contract Documents.

Any time and material charges shall require Inspector's signature on time and material cards showing the hours worked and the Work actually completed. (See Article 7.7.1.1)

GENERAL CONDITIONS

7.7.6 Notice Required

If Trade Contractor desires to initiate a Dispute for an increase in the Contract Price, or any extension in the Contract Time for completion, Trade Contractor shall notify the applicable party responsible for addressing the Dispute or Claim pursuant to Article 4.6. No Claim or Dispute shall be considered unless made in accordance with this subparagraph. Trade Contractor shall proceed to execute the Work even though the adjustment may not have been agreed upon. Any change in the Contract Price or extension of the Contract Time resulting from such Claim shall be authorized by a CO.

7.7.7 Applicability to Subcontractors

Any requirements under this Article 7 shall be equally applicable to CO's, COR's or ICD's issued to Subcontractors by Trade Contractor to the same extent required by the Trade Contractor.

7.7.8 Alteration to Change Order Language

Trade Contractor shall not alter or reserve time in COR's, CO's or ICD's. Trade Contractor shall execute finalized CO's and proceed under Article 7.7.7 and Article 4.6 with proper notice. If Trade Contractor intends to reserve time without an approved CPM schedule prepared pursuant to Article 8 or without submitting a fragnet showing delay to critical path, then Trade Contractor may be prosecuted pursuant to the False Claim Act.

GENERAL CONDITIONS

ARTICLE 8 TIME AND SCHEDULE

8.1 DEFINITIONS

8.1.1 Contract Time

The Work performed by all Trade Contractors, coordinated through CM shall reach Substantial Completion (See Article 1.1.55) within the time specified in the Agreement Form. Moreover, Trade Contractors, coordinated and in concert with each other, shall perform its Work in strict accordance with the Project Milestones and Outline Schedule in the Contract Documents inclusive of all Float and other Baseline inclusions as noted in Article 8.3.2.12 and as otherwise specifically noted in Article 8.

8.1.2 Development of a Project Baseline Schedule

All Trade Contractors shall perform Work for the Project based on timing and sequences required under the Outline Schedule provided with the Contract Documents so Substantial Completion (See Article 1.1.55) is reached within the Contract Time. A Project Baseline Schedule will be developed from the Trade Contractor Baseline Schedule developed by Trade Contractor from the Outline Schedule provided in the Contract Documents. The Project Baseline Schedule incorporates input on timing, sequence, and durations so Milestones and the date of Substantial Completion can be reached in the Contract Time (including all Float and other Baseline inclusions as noted in Article 8.3.2.12). Once the Project Baseline Schedule is developed, Trade Contractor shall perform its Work in strict accordance with the Project Baseline Schedule to meet all Project Milestones.

Contract Time includes and incorporates all Float and other Baseline inclusions as noted in Article 8.3.2.12 and as otherwise specifically noted in Article 8.

8.1.3 Notice to Proceed

District may give a NTP to commence work for the Project within ninety (90) days of the award of the bid by District. All Trade Contractors will receive a copy of this NTP. Trade Contractors are to immediately commence preparing Submittals, Trade Contractor Baseline Schedules and commence attendance at Initial Trade Contractor Coordination Meetings after receipt of the NTP. However, not all Trade Contractors will immediately commence Work. Once Trade Contractor Baseline Schedules are reviewed and coordinated, Trade Contractor shall schedule their work based on the CM prepared Project Baseline Schedule, which shall form the timing and basis for Trade Contractor's Work. If there are areas of conflict or issues with how Trade Contractor Baseline Schedule was incorporated into the Project Baseline Schedule, Trade Contractor must provide written notice within ten (10) days following issuance of the Project Baseline Schedule. The Project Baseline Schedule determines the timing of Work for the entire Project for all Trade Contractors and is prepared so all Milestones are met and all Work shall be completed in the Contract Time.

8.1.4 Computation of Time

The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

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8.1.5 Float

Float is time the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. Project Float and Rain Days are owned by the Project and may be utilized as necessary for critical path delays once the days become available for consumption (i.e. the Rain Day arrives and is not utilized since rain did not occur or Work was performed on the interior of a building). Float is applicable to Critical Activities for the entire Project and shall be applied to each Trade Contractor based on the Trade Contractor's sequence of Work in relation to the Project Baseline Schedule that is issued and occasionally updated by CM in Schedule Updates. However, Governmental Delay Float shall not be utilized for purposes other than to address critical path delays that arise due to approvals, Inspector approvals or verifications on governmental forms.

8.1.5.1 *Governmental Delay Float.* It is anticipated that there will be governmental generated delays over the course of the Project. Specific to DSA approvals, it is anticipated that no less than twelve (12) days per calendar year shall be set aside as Governmental Float to be utilized on critical path delays. A pro-rated number of days shall be calculated based on length of Contract Time. (For example, a two (2) year Contract Time shall require twenty-four (24) days of Governmental Float. If the Contract Time is 182 days, then the Contract Time shall require six (6) days of Governmental Float) This Governmental Delay Float must be incorporated into the Trade Contractor Baseline Schedule and should be incorporated in each critical activity as Trade Contractor deems fit. Specifically, major categories of Work under the DSA 152 (Project Inspection Card) should be allocated Governmental Delay Float at the Trade Contractor's discretion. Governmental Delay Float on the Project may exceed 12 days per one (1) year period, but Trade Contractor is required to include not be less than 12 days of Governmental Delay Float during each one (1) year period.

The Project Baseline Schedule may carry Governmental Delay Float as a float category allowance item to be consumed as necessary during the course of the Project at the CM's option.

Trade Contractor's failure to establish a protocol for requesting inspections is not grounds to utilize Governmental Delay Float. As noted in Article 3.1.4, 48 hours advance notice of commencing Work on a new area is required after submitting form DSA 156 and under PR 13-01 Special Inspection reports are not required to be posted until at least 14 days after the Work was inspected. Failure to plan, and pay (if applicable) for quicker delivery of Special Inspections is not Governmental Delay Float under Article 8.1.5.1. If Governmental Delay Float is not utilized, this float is carried through to other DSA 152 categories of inspection and consumed over the course of the Project

Governmental Delay Float may be utilized for a DSA Stop Work Order regardless of fault as defined under Education Code Section 17307.5(b).

8.1.5.2 *Inclement Weather (Rain Days).* Time extensions for unusually severe weather if it results in precipitation or other conditions which in the amount, frequency, or duration is in excess of the norm at the location and time of year in question as established by NOAA weather data. No less than 22 calendar days for each calendar year for Southern California will be allotted for in the Trade Contractor Baseline Schedule and Project Baseline Schedule for each winter weather period or carried at the end of the schedule as Rain Float. Float for weather days in other geographical regions shall be adjusted based on NOAA weather data for the geographical location. As part of Trade Contractor's Baseline Schedule, Trade Contractor has anticipated all the days it takes as part of Trade Contractor's Scope of Work to dry out and re-prepare areas that may be affected by weather delays which extend beyond the actual weather days. The weather days that occur during the course of the Project that affect

GENERAL CONDITIONS

Trade Contractor that are not used will become float for the Project's use. Trade Contractor weather delays during Trade Contractor Scope of Work will not be allowed on a day-for-day weather delay for periods noted as float in the Schedule. Trade Contractor is expected to work seven (7) days per week (if necessary, irrespective of inclement weather), to maintain access, and to protect the Work under construction from the effects of inclement weather. Additional days beyond the NOAA shall be considered under the same criteria that weather days are granted below.

A Rain Day shall be granted if the weather prevents a critical activity when requested by the Trade Contractor from beginning Work at the usual daily starting time, or prevents the Trade Contractor from proceeding with seventy-five (75%) of the normal labor and equipment force towards completion of the day's current controlling item on the accepted schedule for a period of at least five hours, and the crew is dismissed as a result thereof, the Architect will designate such time as unavoidable delay and grant one (1) critical path activity calendar-day extension if there is no available float for the calendar year.

The Project Baseline Schedule may carry Rain Float as a float category allowance item to be consumed as necessary during the course of the Project at the CM's option.

8.1.5.3 *Project Float.* The Trade Contractor (or CM) may determine some activities require a lesser duration than allocated and may set aside float in the Project Schedule. There shall be no early completion. Instead, to the extent float is either addressed at the end of the Project or throughout each category of critical path work, Project Float may be used as necessary during the course of the Project and allocated on a first, come first serve basis. However, the use of float does not extend to Governmental Delay Float, which shall only be used for Governmental Delays.

8.2 HOURS OF WORK

8.2.1 Sufficient Forces

Trade Contractors shall continuously furnish sufficient forces to ensure the prosecution of the Work in accordance with the Project Baseline Schedule and Updated Schedules for the Project.

8.2.2 Performance During Working Hours

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies.

8.2.3 Costs for After Hours Inspections

If the Work done after hours is required by the Contract Documents, a Trade Contractor Recovery Schedule, or as a result of the Trade Contractor's failure to plan, and inspection must be conducted outside the Inspector's regular working hours, the costs of any after hour inspections, shall be borne by the Trade Contractor.

If the District allows Trade Contractor to do Work outside regular working hours for the Trade Contractor's convenience, the costs of any inspections required outside regular working hours shall be addressed through a Deductive Change Order shall be issued from the next Progress Payment.

GENERAL CONDITIONS

If Trade Contractor elects to perform Work outside the Inspector's regular working hours, costs of any inspections required outside regular working hours shall be invoiced to Trade Contractor by the District and a Deductive Change Order.

8.3 PROGRESS AND COMPLETION

8.3.1 Time of the Essence

Time limits stated in the Outline Schedule and the Milestones and Contract Time submitted with Contract Documents are of the essence to the Contract. By executing the Agreement, the Trade Contractor confirms that the Contract Time and Milestones are a reasonable period for performing the Work.

8.3.2 Trade Contractor Baseline Schedule Requirements

8.3.2.1 *Timing:* Within ten (10) calendar days after NTP, Trade Contractor shall submit a practical schedule showing the order in which the Trade Contractor proposes to perform the Work, the durations of each category of Work, and the dates on which the Trade Contractor contemplates starting and completing the categories of the Work.

8.3.2.2 *Trade Contractor Baseline Schedule.* This first schedule which outlines the Trade Contractor's view of the practical way in which the Work will be accomplished is the Trade Contractor Baseline Schedule. If the Trade Contractor Fails to submit its Baseline Schedule within the ten (10) days noted, then District may withhold processing and approval of progress payments pursuant to Article 9.4 and 9.6. As part of the preparation of Trade Contractor Baseline Schedule, Trade Contractor shall undertake the following:

- a. Review of Durations in the Outline Schedule shall be undertaken carefully.
- b. Coordination with other Trade Contractors. Where interface is required with other Trade Contractors, Trade Contractor Baseline Schedule must note where coordination is required and the coordination points and dates shall be noted and forwarded in an outline or narrative basis to the affected Trade Contractor so the interface and timing may be reviewed at Trade Contractor Initial Coordination Meetings.
- c. Preparation of BIM Documents. When preparing BIM documents, coordination and timing of coordination of items with other trade contractors must also be noted on the Trade Contractor Baseline Schedule along with a narrative of the exact areas that require coordination with other trades.
- d. Clash Check or Coordination Checks. During the Trade Contractor Initial Coordination meetings, Trade Contractors are required to review and address conflicts and clashes that are identified so issues can be resolved on a Building Information Modeling methodology and RFI's or questions generated rather than the more expensive delays to the schedule or review and update while the Project is in progress. Trade

GENERAL CONDITIONS

Contractor must attend all Initial Coordination Meetings to address Schedule and timing of BIM review.

- e. Issues with Outline Schedule must be addressed in writing by Trade Contractor identifying the issue, duration, conflict, or other problem with the Outline Schedule within ten (10) days after NTP. The issues will be addressed at the first Trade Contractor Coordination meeting and each Trade Contractor Coordination meeting until a Project Baseline Schedule for the entire Project is established.
- f. Once the Project Baseline Schedule is Provided, Trade Contractor must provide written objections within ten (10) days after receipt of the Project Baseline Schedule and note the specific items that are issues and request revision, if necessary.

8.3.2.3 *District Review and Approval:* The Design Team will review both a paper and electronic copy of Trade Contractor Baseline Schedule and note comments under Article 8.3.2(e) or as otherwise noted in this Article and either approve or disapprove the Trade Contractor Baseline Schedule.

- a. Schedules to be Provided Electronically. All Baseline, Update, and Recovery Schedules shall be prepared using an accepted electronic scheduling program acceptable to CM. All Schedules shall be delivered in an electronic format usable by the CM. All logic ties and electronic information shall be included in the electronic copy of the schedule that is delivered to the CM.

8.3.2.4 *Schedule Must Be Within the Given Contract Time.* The Trade Contractor Baseline Schedule shall not add durations that cause the Contract Time to be exceeded, shall not exceed time limits set forth in the Contract Documents and shall comply with all of the scheduling requirements as set forth in the Specifications.

8.3.2.5 *Submittals Must Be Incorporated (See Articles 3.7 and 3.9):* Trade Contractor shall include Submittals as line items in the Trade Contractor Baseline Schedule as required under Article 3.7.2 and 3.9.6. Submittals shall not delay the Work, Milestones, or the Completion Date. Failure to include Submittals in the Trade Contractor Baseline Schedule shall be deemed a material breach by the Trade Contractor.

8.3.2.6 *Float Must Be Incorporated:* The schedule must indicate the beginning and completion of all phases of construction and shall use the “Critical Path Method” (commonly called CPM) for the value reporting, planning and scheduling, of all Work required under the Contract Documents. Trade Contractor Baseline Schedule must incorporate all Milestones in Outline Schedule, apply Governmental Float as deemed appropriate in the Trade Contractor’s discretion. The Trade Contractor Baseline Schedule shall incorporate the Outline Schedule provided as part of the Contract Documents and shall note durations that will not be adequate or should be shortened based on Trade Contractor’s Review. These changes shall be identified, reviewed with other Trade Contractor Baseline Schedules and incorporated into CM’s Project Baseline Schedule for the Project. CM’s Project Baseline Schedule is critical to CM Coordination, Sequencing of Trades, and to ensure monitoring of the progress of each Trade Contractor’s Work.

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8.3.2.7 *No Early Completion.* Trade Contractor shall not submit a Trade Contractor Baseline Schedule showing early completion without indicating float time through the date set for Project completion by District. Trade Contractor's schedule shall account for all days past early completion as float which belongs to the Project. Usage of float shall not entitle Trade Contractor to any delay claim or damages due to delay.

8.3.2.8 *Use of Outline Schedule Provided in Bid Documents.* The Bid will include an Outline Schedule providing anticipated durations and sequences that incorporates key Milestones along with general timing for the Project that incorporates float and other Baseline inclusions as noted in Article 8.3.2.12. The preliminary Outline Schedule is not intended to serve as the Project Baseline Schedule utilized for construction. It is up to the Trade Contractor to study, participate and assist in developing a Project Baseline Schedule to address the actual durations and sequences of Work that is anticipated while maintaining the Milestones provided by the District. Contract shall obtain information from Trade Contractor's Subcontractors and vendors on the planning, progress, delivery of equipment, coordination, and timing of availability of Subcontractors so a practical plan of Work is fully developed and represented in the Project Baseline Schedule.

8.3.2.9 *Trade Contractor Failure to Submit Trade Contractor Baseline Schedule.* Trade Contractor failure to submit a Trade Contractor Baseline Schedule is a material breach of the Contract and grounds for Termination pursuant to Article 14. However, CM, in its sole discretion, may require Trade Contractor's written consent to the Project Baseline Schedule prepared from other Trade Contractor information utilized to build the Project Baseline Schedule as a whole.

8.3.2.10 *Incorrect Logic, Durations, Sequences, or Critical Path.* The CM may reject or indicate durations, sequences, critical path or logic in Trade Contractor Baseline or Updated Schedule are not acceptable and request changes. The electronic copy of the Schedules shall have adequate information so logic ties, duration, sequences and critical path may be reviewed electronically. Trade Contractor is to diligently rebuild and resubmit the Schedules to represent the Trade Contractor's plan to complete the Work and maintain Milestones at the next progress meeting, or before the next progress meeting. If Trade Contractor is not able to build a schedule that is acceptable to the CM and District, the CM and District reserve the right to build an acceptable Trade Contractor Baseline Schedule on behalf of the Trade Contractor from the information received.

8.3.2.11 *Trade Contractor Responsibility for Schedules Even if Schedule Issues Are Not Discovered.* Failure on the part of the District to discover errors or omissions in schedules submitted shall not be construed to be an approval of the error or omission and a flawed schedule is not grounds for a time extension.

8.3.2.12 *Inclusions in Trade Contractor Baseline Schedule.* In addition to Trade Contractor Baseline Scheduling requirements set forth at Article 8.3.2 and Schedule Update requirements, Trade Contractor is specifically directed to break out separately in Trade Contractor's Baseline Schedule the following items required pursuant to these General Conditions, including but not limited to:

- a. Rain Day Float (excluding inclement weather) as required under Article 8.1.5.2. For example, if the NOAA provides 22 days of Rain Days, all 22 days must be incorporated and noted in the Schedules. Further, any days required to clean-up or dry out shall be included for operations that are likely to require a clean-up or dry out period. Days that are not utilized shall be considered float owned by the Project.

GENERAL CONDITIONS

- b. Governmental Delay Float under Article 8.1.5.1. This Governmental Delay Float shall only be utilized for Governmental Delays and shall not be considered available float owned by the Project. This float shall only be distributed to the Project upon the completion of the Project and shall be used to offset Liquidated Damages and shall not generate compensable delays.
- c. Submittal and Shop Drawing schedule under Article 3.9.
- d. Deferred Approvals under Article 3.9.
- e. Time for separate and other Trade Contractors, including furniture installation and start up activities, under Article 6.1.
- f. Coordination and timing of any drawings, approvals, notifications, permitting, connection, and testing for all utilities for the Project. Article 2.1.4
- g. Testing, special events, or school activities

8.3.2.13 *Failure to include Mandatory Schedule Items.* District may withhold payment pursuant to Articles 9.3, 9.4 and 9.6. In lieu of withholding payment for failure to include Mandatory Schedule Items, after the CM has notified the Trade Contractor of failure to meet the Trade Contractor Baseline Schedule or Updated Schedule requirements and the Trade Contractor fails to correct the noted deficiencies or the Trade Contractor does not provide an updated schedule correcting the deficiencies, then Trade Contractor is deemed to have agreed to the durations and sequences set forth in the Outline Schedule and the CM created Project Baseline Schedule and Schedule Updates. In addition, Trade Contractor shall waive any consequential or delay damages or disruption damages for failure to prepare an approved Trade Contractor's Baseline Schedule, or representation of the logical sequence and durations of Trade Contractor's Work and, thus, impacts, coordination and delays have not been articulated and are not available as grounds to evaluate impacts to the Trade Contractor's anticipated Work for the Project. Trade Contractor shall not be granted an extension of time for failure to obtain necessary items and approvals under Article 8.3.2 and for the time required for failure to comply with laws, building codes, and other regulations (including Title 24 of the California Code of Regulations). Trade Contractor shall maintain all items required under Article 8.3.2 (and specifically Article 8.3.2.12) schedule items in the Project Baseline Schedule and shall be deemed responsible for delivery of the Trade Contractor Scope of Work as outlined in the Project Baseline Schedule and any Schedule updates. If the Contract Time is exceeded, then Trade Contractor shall be subject to the assessment of Liquidated Damages pursuant to Article 8.4.

8.3.2.14 *Failure to Meet Requirements.* Failure of the Trade Contractor to provide proper Trade Contractor Baseline Schedules or Trade Contractor Schedule updates as required by this Article and Article 9 is a material breach of the Contract and grounds for Termination pursuant to Article 14. The District, at its sole discretion, may choose, instead, to withhold, in whole or in part, any Progress Payments or Retention amounts otherwise payable to the Trade Contractor.

In addition, Trade Contractor shall be deemed to have agreed to the durations and sequences set forth in the Project Baseline Schedule and Schedule Updates. In addition, Trade Contractor shall waive any consequential or delay damages or disruption damages for failure to prepare an approved Trade Contractor Baseline Schedule, or representation of the logical sequence and durations of Trade

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Contractor's Work and, thus, impacts, coordination and delays have not been articulated and are not available as grounds to evaluate impacts to the Trade Contractor's anticipated Work for the Project.

8.3.3 Update Schedules

8.3.3.1 *Updates Shall Be Based on Approved Project Baseline Schedule.* The Project Baseline Schedule shall be used to build future schedule updates. Schedule Updates shall be a CPM based schedule consistent with the Project Baseline Schedule requirements of 8.3.2. In the case of utilization of Article 8.3.2.13 and no Trade Contractor Baseline Schedule has been approved, Schedule updates shall be provided monthly and each update shall incorporate all comments and revisions noted as not complying with the requirements of Article 8.3.2. Trade Contractor shall be held to the Article 8.3.2.13 unapproved Baseline Schedule, inclusive of all Milestones, adjusted for comments and all required Baseline Schedule Inclusions under Article 8.3.2.12.

8.3.3.2 *Schedule Updates.* Trade Contractor shall update the Project Baseline Schedule each month to address actual start dates and durations, the percent complete on activities, actual completion dates, estimated remaining duration for the Work in progress, estimated start dates for Work scheduled to start at future times and changes in duration of Work items

8.3.3.3 *Listing of Items Causing Delays.* Schedule Updates shall provide a listing of activities which are causing delay in the progress of Work and a narrative shall be provided showing a description of problem areas, anticipated delays, and impacts on the latest approved Project Baseline Schedule. Simply stating "District Delay" or "Architect Delay" shall be an inadequate listing. Delays shall only be listed if they meet the requirements of Article 8.4.

8.3.3.4 *Recovery Schedule.* In addition to providing a Schedule update every thirty (30) days, the Trade Contractor, if requested by the Architect or District, shall take the steps necessary to improve Trade Contractor's progress and demonstrate to the District and Architect that the Trade Contractor has seriously considered how the lost time, the Completion Date, or the Milestones that are required will be met within the terms of the Contract. Trade Contractor shall immediately provide a Recovery Schedule showing how Milestones and the Completion Date will be met. In no case, shall a Recovery Schedule be provided later than ten (10) days following the request for a Recovery Schedule from the Architect or District.

- a. Failure to Provide a Recovery Schedule. Failure shall subject Trade Contractor to the assessment of Liquidated Damages for failure to meet the Contract Time. Refusal or failure to provide a Recovery Schedule shall be considered a substantial failure of performance and a material breach of Contract and may result in Termination of the Contract pursuant to Article 14.
- b. Recovery Schedule Acceleration without Additional Cost. The District may require Trade Contractor prepare a Recovery Schedule showing how the Project shall be accelerated, without any additional cost to the District. The District may order, without additional cost, the following:
 - i. Increase the number of shifts;
 - ii. Utilize overtime to recover the schedule; and/or

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- iii. Increase the days when Work occurs, including weekends, at the Project and at any manufacturer's plant.
- c. Recovery Schedule Acceleration without Additional Cost. If Trade Contractor Disputes that the Recovery Schedule acceleration shall be issued without additional costs, the Trade Contractor shall submit concurrent with Recovery Schedule Acceleration notice pursuant to Articles 8.4.6 and 8.4.4.

8.4 EXTENSIONS OF TIME - LIQUIDATED DAMAGES

8.4.1 Liquidated Damages

TRADE CONTRACTOR AND DISTRICT HEREBY AGREE THAT THE EXACT AMOUNT OF DAMAGES FOR FAILURE TO COMPLETE THE WORK WITHIN THE TIME SPECIFIED IS EXTREMELY DIFFICULT OR IMPOSSIBLE TO DETERMINE. IF THE WORK IS NOT SUBSTANTIALLY COMPLETED IN THE TIME SET FORTH IN THE AGREEMENT, IT IS UNDERSTOOD THAT THE DISTRICT WILL SUFFER DAMAGES. IT BEING IMPRACTICAL AND UNFEASIBLE TO DETERMINE THE AMOUNT OF ACTUAL DAMAGE, IT IS AGREED THE TRADE CONTRACTOR SHALL PAY TO THE DISTRICT THE AMOUNT LIQUIDATED DAMAGES SET FORTH IN THE AGREEMENT, FOR EACH CALENDAR DAY OF DELAY IN REACHING SUBSTANTIAL COMPLETION (SEE ART 1.1.55). CONTRACTOR AND ITS SURETY SHALL BE LIABLE FOR THE AMOUNT THEREOF PURSUANT TO GOVERNMENT CODE SECTION 53069.85.

8.4.2 Delay

Except and only to the extent provided under Article 7 and Article 8, by signing the Agreement, Trade Contractor agrees to bear the risk of delays to completion of the Work; and that Trade Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of delays to complete the Work, Trade Contractor understands that, except and only to the extent provided otherwise in Article 7 and 8, the occurrence of events that delay the Work shall not excuse Trade Contractor from its obligation to achieve Completion of the Project within the Contract Time, and shall not entitle the Trade Contractor to an adjustment to the Contract time.

8.4.3 Excusable Delay

Trade Contractor shall not be charged for Liquidated Damages because of any delays in completion of Work which are not the fault or negligence of Trade Contractor or its Subcontractors, arising from Rain Float or Project Float, including acts of God, as defined in Public Contract Code Section 7105, acts of enemy, epidemics and quarantine restrictions. Trade Contractor shall within five (5) calendar days of beginning of any such delay notify District in writing of causes of delay; thereupon District shall ascertain the facts and extent of delay and grant extension of time for completing Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of Work affected by delay, and shall not apply to other portions of Work not so affected. An extension of time may only be granted after proper compliance with Article 8.3 requiring preparation and submission of a properly prepared CPM schedule.

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8.4.3.1 *Excusable Delay Is Not Compensable.* No extended overhead, general conditions costs, impact costs, out-of-sequence costs or any other type of compensation, by any name or characterization, shall be paid to the Trade Contractor for any delay to any activity not designated as a critical path item on the latest approved Project schedule.

8.4.3.2 *Notification.* Trade Contractor shall notify the Architect in writing of any anticipated delay and its cause, in order that the Architect may take immediate steps to prevent, if possible, the occurrence or continuance of delay, and may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the Work might be delayed thereby.

8.4.3.3 *Extension Request.* In the event the Trade Contractor requests an extension of Contract time for unavoidable delay, such request shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work (See Article 7). When requesting time, i.e., extensions, for proposed Change Orders, they must be submitted with the proposed Change Order with full justification and documentation. If the Trade Contractor fails to submit justification with the proposed Change Order it waives its right to a time extension at a later date. Such justification must be based on the official Contract schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the scope of Work. Blanket or general claims for extra days without specific detailed information as required herein or a blanket or general reservation of rights do not fulfill the requirements of this Article and shall be denied. The justification must include, but is not limited to, the following information:

- a. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform these activities within the stated duration.
- b. Logical ties to the official Project Baseline Schedule or Approved Updated Schedule for the proposed changes and/or delay showing the activity/activities in the schedule whose start or completion dates are affected by the change and/or delay. (A fragment of any delay of over ten (10) days must be provided.)

Trade Contractor and District understand and expressly agree that insofar as Public Contract Code Section 7102 may apply to changes in the Work or delays under this Contract, the actual delays and damages, if any, and time extensions are intended to, and shall provide, the exclusive and full method of compensation for changes in the Work and construction delays.

8.4.4 Notice by Trade Contractor Required

Trade Contractor shall within five (5) calendar days of beginning of any delay on the Project shall notify the District in writing of causes of delay with justification and supporting documentation. In the case of a Recovery Schedule pursuant to Article 8.4.6, Contractor shall submit written notice concurrent with the Recovery Schedule. District will then ascertain the facts and extent of the delay and grant an extension of time for completing the Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of the Work affected by the delay and shall not apply to other portions of the Work not so affected.

Claims relating to time extensions shall be made in accordance with applicable provisions of Article 7.

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8.4.4.1 *Adjustment for Compensable Delays.* The Schedule may be adjusted for a delay if, and only if, Trade Contractor undertakes the following:

- a. Trade Contractor submits a timely COR or CO pursuant to the requirements of Article 7.
- b. Trade Contractor submits a fragnet showing the critical path delay caused by the COR, CO, Changed Condition, CCD, or ICD
- c. Trade Contractor has addressed all required float days in the fragnet.
- d. Trade Contractor submits a complete breakdown of all costs incurred utilizing the format of Article 7.3.3

8.4.5 No Additional Compensation for Coordinating Governmental Submittals and the Resulting Work

TRADE CONTRACTOR HAS PLANNED ITS WORK AHEAD OF TIME AND IS AWARE THAT GOVERNMENTAL AGENCIES, SUCH AS THE GAS COMPANIES, ELECTRICAL UTILITY COMPANIES, WATER DISTRICTS AND OTHER AGENCIES MAY HAVE TO APPROVE TRADE CONTRACTOR PREPARED DRAWINGS OR APPROVE A PROPOSED INSTALLATION. TRADE CONTRACTOR HAS INCLUDED DELAYS AND DAMAGES WHICH MAY BE CAUSED BY SUCH AGENCIES IN TRADE CONTRACTOR'S BID AND HAS INCLUDED ADEQUATE TIME IN THE TRADE CONTRACTOR'S BASELINE SCHEDULE. FAILURE TO ADEQUATELY PLAN AND SCHEDULE IS NOT A BASIS TO USE GOVERNMENTAL DELAY FLOAT.

8.4.6 District Right to Accelerate the Work

The District may direct the Trade Contractor to meet schedule requirements when the Work has been delayed. The District shall compensate the Trade Contractor for the additional costs incurred by acceleration to the extent that such costs are directly attributable to the acceleration and are incurred through no fault or negligence of the Trade Contractor.

8.4.6.1 *Management of Acceleration.* Trade Contractor acceleration shall not include Work that is part of the scope of Work detailed in the Plans and Specifications. Instead, the acceleration costs shall be premium or overtime and quantifiable additional work added to the Project meant to accelerate the Project. Trade Contractor is directed to keep consistent crews on the Project so time can be tracked. If crews are circulated off the Project or crews brought in only for overtime, the District may be charged for Contract Work and not accelerated time. In such case, the District may object to the costs submitted.

8.4.6.2 *Costs for Acceleration.* Cost for Acceleration shall be supported by backup documentation, and time sheets signed by the Inspector for each day work has been performed, at or near the time when the Work was performed. A listing on the time sheet shall document all labor, materials and services utilized that day and provide areas of work, and amount of work performed. Trade Contractor shall comply with submission requirements of Article 7.7.

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ARTICLE 9 PAYMENTS AND COMPLETION

9.1 CONTRACT SUM/ CONTRACT PRICE

The Contract Sum or Contract Price is stated in the Agreement and, including authorized adjustments, is the total amount payable by the District to the Trade Contractor for performance of the Work under the Contract Documents.

9.2 COST BREAKDOWN

9.2.1 Required Information

Trade Contractor shall furnish the following:

- a. Within ten (10) days after Notice to Proceed, a detailed breakdown of the Contract Price (hereinafter “Schedule of Values”) for each Project, site, building, Milestone or other meaningful method to measure the level of Project Completion as determined by the District shall be submitted as a Submittal for the Project;
- e. Within ten (10) days after the date of the Notice to Proceed, a schedule of estimated monthly payment requests due the Trade Contractor showing the values and construction time of the various portions of the Work to be performed by it and by its Subcontractors or material and equipment suppliers containing such supporting evidence as to its correctness as the District may require;
- f. Within ten (10) days after the date of the Notice to Proceed, address, telephone number, telecopier number, California State Contractors License number, classification and monetary value of all subcontracts for parties furnishing labor, material, or equipment for completion of the Project.

9.2.2 Information and Preparation of Schedule of Values

9.2.2.1 *Break Down of Schedule of Values.* Schedule of Values shall be broken down by Project, site, building, Milestone, or other meaningful method to measure the level of Project Completion as determined by the District.

9.2.2.2 *Based on Trade Contractor Bid Costs.* The Schedule of Values shall be based on the costs from Trade Contractor’s bid to the District. However, the submission of the Schedule of Values shall not be front loaded so the Trade Contractor is paid a greater value than the value of the Work actually performed and shall not shift funds from parts of the Project that are later to Work that is performed earlier.

9.2.2.3 Largest Dollar Value for Each Line Item. Identify Subcontractors and materials suppliers proposed to provide portions of Work equal to or greater than ten thousand dollars (\$10,000) or one-half of one percent (0.5%) of their Contract Price, whichever is less.

9.2.2.4 *Allowances.* Any Allowances provided for in the Contract shall be a line item in the Schedule of Values.

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9.2.2.5 *Labor and Materials Shall Be Separate.* Labor and Materials shall be broken into two separate line items unless specifically agreed in writing by the District.

9.2.3 District Approval Required

The District shall review all submissions received pursuant to Article 9.2 in a timely manner. All submissions must be approved by the District before becoming the basis of any payment.

9.3 PROGRESS PAYMENTS

9.3.1 Payments to Trade Contractor

Unless there is a resolution indicating that the Work for the Project is substantially complex, within thirty-five (35) days after approval of the Request for Payment, Trade Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as certified by Architect and Inspector and verified by Trade Contractor) up to the last day of the previous month, less the aggregate of previous payments. In the case of a Project designated substantially complex, the sum paid to the Trade Contractor shall be equal to ninety percent (90%) of the value of the Work performed (as certified by the Architect and Inspector and verified by Trade Contractor) The value of the Work completed shall be the Trade Contractor's best estimate. Work completed as estimated shall be an approximation or estimate only and no mistake, inaccuracy, error or falsification in said any approved estimate shall operate to release the Trade Contractor, or any Surety upon any bond, from damages arising from such Work, or from the District's enforcement of each and every provision of this Contract including but not limited to the Performance Bond and Payment Bond. The District shall have the right to subsequently to correct any mistake, inaccuracy, error or falsification made or otherwise set forth in any approved Request for Payment and such correction may occur in any future Payment Application or in the Retention Payment to the Trade Contractor. No Surety upon any bond shall be relieved, released or exonerated of its obligations under this Contract or any applicable bond when the District is unable to correct an overpayment to the Trade Contractor due to any abandonment by the Trade Contractor or termination by the District.

The Trade Contractor shall not be entitled to have any payment requests processed, or be entitled to have any payment made for Work performed, so long as any lawful or proper direction given by the District concerning the Work, or any portion thereof, remains incomplete.

Notwithstanding anything to the contrary stated above, the Trade Contractor may include in its Request for Payment the value of any structural steel, glue laminated beams, trusses, bleachers and other such custom-made materials prepared specifically for the Project and unique to the Project so long as all of the following requirements are satisfied:

- a. The aggregate cost of materials stored off-site shall not exceed Twenty Five Thousand Dollars (\$25,000) at any time or as otherwise agreed to be District in writing;
- b. Title to such materials shall be vested in the District as evidenced by documentation satisfactory in form and substance to the District, including, without limitation, recorded financing statements, UCC filings and UCC searches;
- c. With each Trade Contractor Request for Payment, the Trade Contractor shall submit to the District a written list identifying each location where materials are

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stored off-site (which must be a bonded warehouse) and the value of the materials at each location. The Trade Contractor shall procure insurance satisfactory to the District (in its reasonable discretion) for materials stored off-site in an amount not less than the total value thereof;

- d. The consent of any Surety shall be obtained to the extent required prior to payment for any materials stored off-site;
- e. Representatives of the District shall have the right to make inspections of the storage areas at any time; and
- f. Such materials shall be: (1) protected from diversion, destruction, theft and damage to the reasonable satisfaction of the District; (2) specifically marked for use on the Project; and (3) segregated from other materials at the storage facility.

9.3.2 Purchase of Materials and Equipment and Cost Fluctuations

The Trade Contractor is required to order, obtain, and store materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays. Trade Contractor understands that materials fluctuate in value and shall have adequately addressed market fluctuations through agreements with Trade Contractor's vendors or by other means. Trade Contractor further understands and incorporates into Trade Contractor's bid cost any wage rate increases during the Project for the Trade Contractor's labor force as well as all other Subcontractor and vendor labor forces. District shall not be responsible for market fluctuations in costs or labor rate increases during the Project. Trade Contractor further has incorporated any and all cost increases in areas of Work where there may be schedule variations so that cost increases are not passed through to the District.

9.3.3 No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Trade Contractor specifically understands Title 24 Section 4-343 which states:

"It is the duty of the contractor to complete the work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of such duties... In no case, however, shall the instruction of the Architect or registered Engineer be construed to cause work to be done with is not in conformity with the approved plans, specifications, and change orders..."

Notwithstanding any payment, the District may enforce each and every provision of this Contract which includes, but is not limited to, the Performance Bond and Payment Bond. The District may correct any error subsequent to any payment. In no event shall the Trade Contractor or the Surety be released or exonerated from performance under this Contract when the District overpays the Trade Contractor based upon any mistake, inaccuracy, error or falsification in any estimate that is included in any Request for Payment.

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9.3.4 Issuance of Certificate of Payment

The Architect shall, within seven (7) days after receipt of the Trade Contractor's Application for Payment, either approve such payment or notify the Trade Contractor in writing of the Architect's reasons for withholding approval in whole or in part as provided in Article 9.6. The review of the Trade Contractor's Application for Payment by the Architect is based on the Architect's observations at the Project and the data comprising the Application for Payment that the Work has progressed to the point indicated and that, to the best of the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. In some cases, the Architect may act upon or rely on the evaluation of the Work by the Inspector. This review of Payment Applications is sometimes called a "Pencil Draft." District's return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Trade Contractor shall promptly respond to Pencil Drafts or Trade Contractor's Payment Applications may be delayed. Trade Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the prompt payment of a Request for Payment or Request for Retention. The foregoing representations are subject to: (1) an evaluation of the Work for conformance with the Contract Documents, (2) results of subsequent tests and inspections, (3) minor deviations from the Contract Documents correctable prior to completion, and (4) specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute the Trade Contractor's verified representation that the Trade Contractor is entitled to payment in the amount certified.

9.3.5 Payment of Undisputed Contract Payments

In accordance with Public Contract Code Section 7100, payments by the District to the Trade Contractor for any and all undisputed amounts (including all Progress Payments, Final Payments or Retention Payment) is contingent upon submission of a proper and accurate Payment Application and the Trade Contractor furnishing the District with a release of all Claims against the District related to such undisputed amounts. Disputed Contract Claims in stated amounts may be specifically excluded by the Trade Contractor from the operation of the release. If, however, the Trade Contractor specifically excludes any Claims, the Trade Contractor shall provide details such as a specific number of disputed days or costs of any such exclusion in accordance with Articles 4.6 and 7.7.

9.4 APPLICATIONS FOR PROGRESS PAYMENTS

9.4.1 Procedure

9.4.1.1 *Application for Progress.* On or before the fifth (5th) day of each calendar month during the progress of the Work, Trade Contractor shall submit to the Architect an itemized Application for Progress Payment for operations completed. Such application shall be notarized, if required, and supported by the following or such portion thereof as Architect requires:

1. The amount paid to the date of the Payment Application to the Trade Contractor, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;
2. The amount being requested under the Payment Application by the Trade Contractor on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;

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3. The balance that will be due to each of such entities after said payment is made;
4. A certification that the As-Built Drawings and Annotated Specifications are current;
5. Itemized breakdown of Work done for the purpose of requesting partial payment;
6. An updated Project Baseline Schedule or other Schedule updates in conformance with Article 8;
7. Failure to submit a Schedule update for the month or any previous month
8. The additions to and subtractions from the Contract Price and Contract Time;
9. A summary of the Retention held;
10. Material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;
11. The percentage of completion of the Trade Contractor's Work by line item; and
12. An updated Schedule of Values from the preceding Application for Payment.
13. Prerequisites for Progress Payments
14. Any other information or documents reasonably requested by the District, Architect, CM or Inspector.

9.4.1.2 *First Payment Request.* The following items, if applicable, must be completed before the first payment request will be accepted for processing:

1. Installation of the Project sign;
2. Receipt by Architect of Submittals;
3. Installation of field office;
4. Installation of temporary facilities and fencing;
5. Submission of documents listed in the Article 9.2 relating to Contract Price breakdown;
6. Preliminary schedule analysis, due within 10 days after Notice to Proceed (see Article 8.3.2);
7. Trade Contractor's Baseline Schedule (to be CPM based in conformance with Article 8);

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8. Schedule of unit prices, if applicable;
9. Submittal Schedule;
10. Copies of necessary permits;
11. Copies of authorizations and licenses from governing authorities;
12. Initial progress report;
13. Surveyor qualifications;
14. Written acceptance of District's survey of rough grading, if applicable;
15. List of all Subcontractors, with names, license numbers, telephone numbers, and scope of work;
16. All bonds and insurance endorsements; and
17. Resumes of Trade Contractor's Project Manager, and if applicable, job site secretary, record documents recorder, and job site Superintendent.

9.4.1.3 *Second Payment Request.* The second payment request will not be processed until all Submittals and Shop Drawings have been accepted for review by the Architect.

9.4.1.4 *All Payment Requests.* No payment requests will be processed unless Trade Contractor has submitted copies of the certified payroll records for the Work which correlates to the payment request and a proper CPM schedule pursuant to Article 8 is submitted.

9.4.1.5 *Final Payment Application (90% or 95%).* (See Article 9.11.1)

9.4.1.6 *Final Payment Application (100%).* (See Article 9.11.3)

9.5 STOP NOTICE CLAIMS AND WARRANTY OF TITLE

Trade Contractor warrants title to all Work. Trade Contractor further warrants that all Work is free and clear of liens, claims, security interests, stop notices, or encumbrances in favor of the Trade Contractor, Subcontractors, material and equipment suppliers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work. Failure to keep work free of liens, stop notices, claims, security interests or encumbrances is grounds to make a claim against Trade Contractor's Payment and Performance Bond to immediately remedy and defend.

If a lien or stop notice of any nature should at any time be filed against the Work or any District property, by any entity which has supplied material or services at the request of the Trade Contractor, Trade Contractor and Trade Contractor's Surety shall promptly, on demand by District and at Trade Contractor's and Surety's own expense, take any and all action necessary to cause any such lien or stop notice to be released or discharged immediately therefrom.

If the Trade Contractor fails to furnish to the District within ten (10) calendar days after written demand by the District, satisfactory evidence that a lien or stop notice has been so released, discharged, or secured, then District may discharge such indebtedness and deduct the amount required therefor, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District

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from any sum payable to Trade Contractor under the Contract. In addition, any liens, stop notices, claims, security interests or encumbrances shall trigger the indemnification requirements under Article 3.16 and the Agreement Form, and shall act as a trigger under Civil Code Section 2778 and 2779 requiring reimbursement for any and all costs following the District's written demand has been made. Any withholdings by the District for stop notices in accordance with Civil Code Section 9358 shall not be a basis by the Trade Contractor to make a Claim for interest penalties under Public Contract Code Sections 7107 or 20104.50.

9.6 DECISIONS TO WITHHOLD PAYMENT

9.6.1 Reasons to Withhold Payment

The District may withhold payment in whole, or in part, to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required by Article 9.4 cannot be made. The District may withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss because of, but not limited to:

- a. Defective Work not remedied;
- b. Stop notices served upon the District;
- c. Liquidated Damages assessed against the Trade Contractor;
- d. The cost of Completion of the Contract if there exists reasonable doubt that the Work can be Completed for the unpaid balance of any Contract Price or by the completion date;
- e. Damage to the District or other contractor;
- f. Unsatisfactory prosecution of the Work by the Trade Contractor;
- g. Failure to store and properly secure materials;
- h. Failure of the Trade Contractor to submit on a timely basis, proper and sufficient documentation required by the Contract Documents, including, without limitation, acceptable monthly progress schedules, Shop Drawings, Submittal schedules, Schedule of Values, Product Data and samples, proposed product lists, executed Change Order, Construction Change Documents, and verified reports;
- i. Failure of the Trade Contractor to maintain As-Built Drawings;
- j. Erroneous estimates by the Trade Contractor of the value of the Work performed, or other false statements in a Payment Application;
- k. Unauthorized deviations from the Contract Documents (including but not limited to Unresolved Notices of Deviations (DSA Form 154));
- l. Failure of the Trade Contractor to prosecute the Work in a timely manner in compliance with established progress schedules and completion dates.
- m. Failure to properly pay prevailing wages as defined in Labor Code Section 1720, et seq.;

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- n. Failure to properly maintain or clean up the Site;
- o. Payments to indemnify, defend, or hold harmless the District;
- p. Any payments due to the District including but not limited to payments for failed tests, or utilities changes or permits;
- q. Failure to submit an acceptable Schedule in accordance with Article 8;
- r. Failure to pay Subcontractor or suppliers as required by Article 9.8;
- s. Failure to secure warranties, including the cost to pay for warranties;
- t. Failure to provide releases from material suppliers or Subcontractors when requested to do so;
- u. Items deducted pursuant to Article 2.2;
- v. Incomplete Punch List items under Article 9.9 which have gone through the Article 2.2 process; or
- w. Allowances that have not been used.

9.6.2 Reallocation of Withheld Amounts

District may, in its discretion, apply any withheld amount to payment of outstanding Claims or obligations as defined in Articles 9.6 and 9.5. In so doing, District shall make such payments on behalf of Trade Contractor. If any payment is so made by District, then such amount shall be considered as a payment made under Contract by District to Trade Contractor and District shall not be liable to Trade Contractor for such payments made in good faith. Such payments may be made without prior judicial determination of Claim or obligation. District will render Trade Contractor an accounting of such funds disbursed on behalf of Trade Contractor.

If Trade Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after ten (10) calendar days written notice to the Trade Contractor and without prejudice to any other remedy make good such deficiencies. The District shall adjust the total Contract Price by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work which is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Contract Price (of at least 150% of the estimated reasonable value of the nonconforming Work) shall be made therefor.

9.6.3 Payment After Cure

When the grounds for declining approval are removed, payment shall be made for amounts withheld because of them. No interest shall be paid on any retainage or amounts withheld due to the failure of the Trade Contractor to perform in accordance with the terms and conditions of the Contract Documents.

9.7 NONCONFORMING WORK

Trade Contractor shall promptly remove from premises all Work identified by District as failing to conform to the Contract whether incorporated or not. Trade Contractor shall promptly replace and re-

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execute its own Work to comply with the Contract without additional expense to District and shall bear the expense of making good all Work of other contractors destroyed or damaged by such removal or replacement.

If Trade Contractor does not remove such Work which has been identified by District as failing to conform to the Contract Documents within a reasonable time, fixed by written notice, District may remove it and may store the material at Trade Contractor's expense. If Trade Contractor does not pay expenses of such removal within ten (10) calendar days' time thereafter, District may, upon ten (10) calendar days' written notice, sell such materials at auction or at private sale and shall account for net proceeds thereof, after deducting all costs and expenses that should have been borne by Trade Contractor.

9.8 SUBCONTRACTOR PAYMENTS

9.8.1 Payments to Subcontractors

No later than ten (10) days after receipt, or pursuant to Business and Professions Code Section 7108.5, the Trade Contractor shall pay to each Subcontractor, out of the amount paid to the Trade Contractor on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. The Trade Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

9.8.2 No Obligation of District for Subcontractor Payment

The District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

9.8.3 Payment Not Constituting Approval or Acceptance

An approved Request for Payment, a progress payment, a Certificate of Substantial Completion, or partial or entire use or occupancy of the Project by the District shall not constitute acceptance of Work that is not in accordance with the Contract Documents.

9.8.4 Joint Checks

District shall have the right, if necessary for the protection of the District, to issue joint checks made payable to the Trade Contractor and Subcontractors and material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, any obligation from the District to such Subcontractor, or rights in such Subcontractor against the District. The District may choose to issue joint checks at District's sole discretion and only after all the requirements of that particular school district and county are specifically met. Some school districts cannot issue joint checks, so the ability to issue joint checks depends on the District and the specific circumstances.

9.9 COMPLETION OF THE WORK

9.9.1 Close-Out Procedures

9.9.1.1 *Incomplete Punch Items.* When the Trade Contractor considers the Work Substantially Complete (See Article 1.1.55 for definition of Substantially Complete), the Trade Contractor shall prepare and submit to the District a comprehensive list of minor items to be completed or

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corrected (hereinafter “Incomplete Punch Items” or “Punch List”). The Trade Contractor and/or its Subcontractors shall proceed promptly to complete and correct the Incomplete Punch Items listed. Failure to include an item on such list does not alter the responsibility of the Trade Contractor to complete all Work in accordance with the Contract Documents. Trade Contractor is aware that Title 24 Section 4-343(a) provides:

“RESPONSIBILITIES. IT IS THE DUTY OF THE CONTRACTOR TO COMPLETE THE WORK COVERED BY HIS OR HER CONTRACT IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS THEREFOR. THE CONTRACTOR IN NO WAY IS RELIEVED OF ANY RESPONSIBILITY BY THE ACTIVITIES OF THE ARCHITECT, ENGINEER, INSPECTOR OR DSA IN THE PERFORMANCE OF SUCH DUTIES.

9.9.1.2 *Punch List Is Prepared Only After the Project Is Substantially Complete.* If any of the conditions noted in Article 1.1.55 as defining Substantial Completion are not met, the Inspector, Architect or District may reject Trade Contractor’s Incomplete Punch Items as premature. If the Architect and Inspector commence review of Incomplete Punch Items, all rights are reserved until the Project actually meets the definition of Substantially Complete. Liquidated Damages, warranties, and other contractual rights are not affected by Incomplete Punch Items unless otherwise addressed in these General Conditions.

Once the Inspector and the Architect determine the Project is Substantially Complete, a Certificate of Substantial Completion shall be issued. The Inspector and Architect shall prepare a Punch List of items which is an inspection report of the Work, if any, required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be completed by the Trade Contractor and a final DSA Close-Out is approved. When all Work for the Project is Complete, including Punch Lists and all Work complies with the approved Contract Documents and Change Orders, the Project has reached Final Completion.

9.9.1.3 *Punch List* is a list of minor items remaining to be completed prepared by the Design Team provided to Trade Contractors after Substantial Completion (See 1.1.55) which includes the following three (3) conditions: (1) all contractually required items have been installed; (2) All Fire/Life Safety Systems have been installed, and are working and signed off on the DSA Form 152 Inspection Card, all building systems including mechanical, electrical and plumbing are all functioning; and (3) the Project is fit for occupancy and its intended use.

9.9.1.4 *Time for Completion of Punch List.* Trade Contractor shall only be given a period of no more than thirty (30) days to complete the Punch List on the Project. During the Punch List period, the Trade Contractor’s Superintendent and Project Manager shall remain engaged in the Project and shall not be removed or replaced. If the Punch List is not completed at the end of the Punch List time then Trade Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Trade Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Trade Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

Failure to issue a timely written request for additional time to complete Punch List shall result in the deletion of the remaining Punch List Work pursuant to Article 2.2 and the issuance of a Deductive Change Order.

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- a. Extension of Time to Complete Punch List. If Trade Contractor cannot finish the Punch List Work during the time period allotted under Article 9.9.1.4, the Trade Contractor may make a written request for a Non-Compensable Punch List time extension accompanied by an estimate of the number of additional days it will take to complete the Punch List Work for a written consent from the District to allow continued Punch List Work. Punch List time extensions are a maximum of thirty (30) days for each request and must be accompanied by an itemized valued Punch List.
- b. If there is no valued Punch List accompanying any request or if Trade Contractor intends to undertake Punch List without the continued support and supervision of its Superintendent and Project Manager (as required under Article 3.2), the Architect, or the Design Team may issue a valued Punch List, reject the Punch List Time Extension and deduct 150% of the valued Punch List pursuant to Article 2.2 and proceed to Close-Out the Project. Trade Contractor shall cease work on the Project and proceed to complete Trade Contractor's Retention Payment Application and complete the Work for the Project required pursuant to Article 9.11.4.

9.9.1.5 *District Rejection of Written Request for Punch List Time Extensions.* Following sixty (60) Days of Punch List under Article 9.9.1.4, the District has the option of rejecting Punch List Time Extension requests. The District may proceed under Article 2.2 and deduct the value of remaining Punch List Work pursuant to Article 2.2. If the District rejects the Punch List Time Extension request then Trade Contractor shall cease Work on the Project and proceed to Final Inspection pursuant to Article 9.11.2.

9.9.1.6 *Punch List Liquidated Damages to Compensate for Added District Project Costs.* If the total time utilized for Punch List exceeds sixty (60) days [the thirty (30) day period under Article 9.9.1.4 plus an additional thirty (30) day period that has been requested in writing], and the District grants an additional written Punch List Time Extension that exceeds sixty (60) days of Punch List, then Contactor shall be charged Liquidated Damages of at least \$750 per day for continued Punch List Work to partially compensate for the Inspector, Architect, and CM's extended time on the Project. This Punch List Liquidated Damage number is based on anticipated cost for an Inspector on site and additional costs for the Architect and CM to reinspect Punch List items and perform the administration of the Close-out.

Trade Contractor received thirty (30) days without any charges for Punch List Liquidated Damages and is placed on notice pursuant to this Article 9.9.1.6 that \$750 is due for each day of Punch List that exceeds sixty (60) days at \$750, a cost much lower than typical (and actual) costs for Inspection, Architect and CM time required during Punch List. Starting at ninety (90) days of Punch List (an excessive number of days to complete Punch List), the District shall be entitled to adjust Punch List Liquidated Damages to an estimate of the actual costs incurred to oversee, monitor and inspect the Punch List. If costs exceed \$750 per day, the anticipated extended contract charges for Inspection, Architect, CM, and any other costs that will be incurred due to the extended Punch List shall be itemized and a daily rate of Punch List Liquidated Damages shall be presented in writing to the Trade Contractor within five (5) days following the receipt of a written request for Punch List Time Extension by the Trade Contractor that extends the Punch List time beyond ninety (90) days. This written notice of actual Punch List Liquidated Damages may be provided to the Trade Contractor at any time following the first written request for Punch List Time extension requested under Article 9.9.1.4. The adjusted actual Punch List

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Liquidated Damage amount shall be applicable as Punch List Liquidated Damages commencing on the ninetieth (90th) day of Punch List.

9.9.2 Close-Out Requirements for Final Completion of the Project

- a. Utility Connections. Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made and existing services reconnected
- b. As-Built Up to Date and Complete. The intent of this procedure is to obtain an exact "As-Built" record of the Work upon completion of the Project. The following information shall be carefully and correctly drawn on the prints and all items shall be accurately located and dimensioned from finished surfaces of building walls on all As-Built Drawings
 1. The exact location and elevations of all covered utilities, including valves, cleanouts, etc. must be shown on As-Built
 2. Trade Contractor is liable and responsible for inaccuracies in As-Built Drawings, even though they become evident at some future date.
 3. Upon completion of the Work and as a condition precedent to approval of Retention Payment, Trade Contractor shall obtain the Inspector's approval of the "As-Built" information. When completed, Trade Contractor shall deliver corrected sepias and/or a Diskette with an electronic file in a format acceptable to the District.
 4. District may withhold the cost to hire a draftsman and potholing and testing service to complete Record As-Built Drawings at substantial cost if the Trade Contractor does not deliver a complete set of Record As-Built Drawings. This shall result in withholding of between \$10,000 to \$20,000 per building that does not have a corresponding Record As - Built Drawing.
- c. Any Work not installed as originally indicated on approved Drawings, Specifications, Addenda and other Contract Documents
- d. All DSA Close-Out requirements (See DSA Certification Guide) Trade Contractor is also specifically directed to Item 3.2 in the DSA Certification Guide and the applicable certificates for the DSA-311 form.
- e. Submission of Form 6-C. Trade Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343. The Trade Contractor understands that the filing with DSA of a Form 6-C is a requirement to obtain final DSA Approval of the construction by Trade Contractor and utilized to verify under penalty of perjury that the Work performed by Trade Contractor complies with the DSA approved Contract Documents. The failure to file a DSA Form 6C has two consequences. First, the Construction of the Project will not comply with the design immunity provisions of Government Code Section 830.6 and exposes the District and the individual Board members to personal liability for injuries that occur on the Project.

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Secondly, under DSA IR A-20, since the Project cannot be Certified by DSA, no future or further Projects will be authorized so Trade Contractor will have essentially condemned the campus from any future modernization or addition of new classrooms through their failure to file the DSA Form 6C.

1. *Execution of the DSA Form 6-C is Mandatory.* Refusal to execute the Form 6-C, which is a Final DSA Verified Report that all Work performed complies with the DSA approved Contract Documents is a violation of Education Code Section 17312 and shall be referred to the Attorney General for Prosecution.
 2. *Referral to the District Attorney for Extortion.* If the Trade Contractor's refusal to execute the DSA Form 6C is to leverage a Dispute, Claim or Litigation, then the matter shall also be referred to the District Attorney for prosecution for extortion.
 3. *Trade Contractor shall be Responsible for All Costs to Certify the Project.* The District may certify the Project complies with Approved Plans and Specifications by utilizing the procedures under the Project Certification Guide located at the DSA website. All costs for professionals, inspection, and testing required for an alternate Project Certification shall be the Trade Contractor's responsibility and the District reserves its right to institute legal action against the Trade Contractor and Trade Contractor's Surety for all costs to certify the Project and all costs to correct Non-Compliant Work that is discovered during the Alternate Certification Process.
- f. ADA Work that must be corrected to receive DSA certification. See Article 12.2.
- g. Maintenance Manuals. At least thirty (30) days prior to final inspection, three (3) copies of complete operations and maintenance manuals, repair parts lists, service instructions for all electrical and mechanical equipment, and equipment warranties shall be submitted. All installation, operating, and maintenance information and drawings shall be bound in 8½" x 11" binders. Provide a table of contents in front and all items shall be indexed with tabs. Each manual shall also contain a list of Subcontractors, with their addresses and the names of persons to contact in cases of emergency. Identifying labels shall provide names of manufactures, their addresses, ratings, and capacities of equipment and machinery.
1. Maintenance manuals shall also be delivered in electronic media for the Project. Any demonstration videos shall also be provided on electronic media.
- h. Inspection Requirements. Before calling for final inspection, Trade Contractor shall determine that the following Work has been performed:
1. The Work has been completed;
 2. All fire/ life safety items are completed and in working order;

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3. Mechanical and electrical Work complete, fixtures in place, connected and tested;
4. Electrical circuits scheduled in panels and disconnect switches labeled;
5. Painting and special finishes complete;
6. Doors complete with hardware, cleaned of protective film relieved of sticking or binding and in working order;
7. Tops and bottoms of doors sealed;
8. Floors waxed and polished as specified;
9. Broken glass replaced and glass cleaned;
10. Grounds cleared of Trade Contractor's equipment, raked clean of debris, and trash removed from Site;
11. Work cleaned, free of stains, scratches, and other foreign matter, replacement of damaged and broken material;
12. Finished and decorative work shall have marks, dirt and superfluous labels removed;
13. Final cleanup, as in Article 3.13;
14. All Work pursuant to Article 9.11; and
15. Furnish a letter to District stating that District Representative has been instructed in working characteristics of mechanical and electrical equipment.

9.9.3 Costs of Multiple Inspections

More than two (2) requests of the District to make inspections required under Article 9.11.2 shall be considered an additional service of Architect, Inspector, Engineer or other consultants shall be the Trade Contractor's responsibility pursuant to Article 4.5 and all subsequent costs will be prepared as a Deductive Change Order.

9.10 PARTIAL OCCUPANCY OR USE

9.10.1 District's Rights

The District may occupy or use any completed or partially completed portion of the Work at any stage. The District and the Trade Contractor shall agree in writing to the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents. If District and Trade Contractor cannot agree as to responsibilities such disagreement shall be resolved pursuant to Article 4.6. When the Trade Contractor considers a portion complete, the Trade Contractor shall prepare and submit a Punch List to the District as provided under Article 9.9.1.

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9.10.2 Inspection Prior to Occupancy or Use

Immediately prior to such partial occupancy or use, the District, the Trade Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

9.10.3 No Waiver

Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

9.11 COMPLETION AND FINAL PAYMENT

9.11.1 Final Payment (90% Billing if Substantially Complex Finding is Made and 95% Billing If No Finding is Made)

The following items must be completed before the Final Payment Application will be accepted for processing at Substantial Completion of the Project:

- a. Inspector sign-off of each item in the DSA 152 Project Inspection Card;
- b. The Project has reached the Punch List items under Article 9.9.1.2 and the Project has been determined to be Substantially Complete under Article 1.1.55;
- c. Removal of temporary facilities and services;
- d. Testing, adjusting and balance records are complete;
- e. Removal of surplus materials, rubbish, and similar elements;
- f. Chang over of door locks;
- g. Deductive items pursuant to Article 9.6 and Article 2.2; and,
- h. Completion and submission of all final Change Orders for the Project.

9.11.2 Final Inspection (Punch List Completion)

Trade Contractor shall comply with Punch List procedures under Article 9.9.1, and maintain the presence of Project Superintendent and Project Manager (not replacement project superintendent or project manager) until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Trade Contractor demobilize its forces prior to completion of the Punch List.

Upon completion of the Work under Article 9.9.1, the Trade Contractor shall notify the District and Architect, who shall again inspect such Work. If the Architect and the District find the Work contained in the Punch List acceptable under the Contract Documents the Work shall have reached Final Completion. Architect shall notify Trade Contractor, who shall then submit to the Architect its Application for Retention Payment. This Application for Retention Payment shall contain any deductions under Article 9.6, including but not limited to incomplete Punch List items under Article 9.9.1.

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Upon receipt and approval of Application for Retention Payment, the Architect shall issue a Form 6 stating that to the best of its knowledge, information, and belief, and on the basis of its observations, inspections, and all other data accumulated or received by the Architect in connection with the Work, such Work has been completed in accordance with the Contract Documents. The District shall thereupon inspect such Work and either accept the Work as complete or notify the Architect and the Trade Contractor in writing of reasons why the Work is not complete. Upon acceptance of the Work of the Trade Contractor as fully complete (which, absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District shall record a Notice of Completion with the County Recorder, and the Trade Contractor shall, upon receipt of payment from the District, pay the amounts due Subcontractors.

If the Architect and the District find that the Work contained in the Punch List is unacceptable, then Trade Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Trade Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Trade Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

9.11.3 Retainage (100% Billing for the Entire Project)

The retainage, less any amounts disputed by the District or which the District has the right to withhold pursuant to the Contract Documents (including but not limited to incomplete Punch List items under Article 9.9.1), shall be paid after approval by the District of the Application for Retention Payment, after the satisfaction of the conditions set forth in Article 9, the Final Inspection under Article 9.11.2 is completed, and after thirty-five (35) days after the acceptance of the Work and recording of the Notice of Completion by District. No interest shall be paid on any retainage, or on any amounts withheld due to a failure of the Trade Contractor to perform, in accordance with the terms and conditions of the Contract Documents, except as provided to the contrary in any escrow agreement between the District and the Trade Contractor.

- a. Procedures for Application for Retention Payment. The following conditions must be fulfilled prior to release of Retention Payment:
 - i. A full and final waiver or release of all stop notices in connection with the Work shall be submitted by Trade Contractor, including a release of stop notice in recordable form, together with (to the extent permitted by law) a copy of the full and final release of all stop notice rights.
 - ii. The Trade Contractor shall have made all corrections, including all Punch List Items, to the Work which are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.
 - iii. Each Subcontractor to Trade Contractor shall have delivered to the Trade Contractor all written guarantees, warranties, applications, releases from the Surety and warranty bonds (if applicable) required by the Contract Documents for its portion of the Work.

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- iv. Trade Contractor must have completed all requirements set forth in Article 9.9
- v. Trade Contractor must have issued a Form 6C for the Project.
- vi. The Trade Contractor shall have delivered to the District all manuals and materials required by the Contract Documents.
- vii. The Trade Contractor shall have completed final clean up as required by Article 3.13
- viii. Trade Contractor shall have all deductive items under Article 9.6 and Article 2.2 submitted as part of the Retention Payment.

9.11.4 Recording of a Notice of Completion After Punch List Period and Final Inspection.

When the Work, or designated portion thereof, is complete or the District has completed the Article 9.6 and/or the Article 2.2 process, whichever occurs first, the District will file either a Notice of Completion or a Notice of Completion noting valued Punch List items. Valued Punch List items will be deducted from the Retention Payment.

During the time when Work is being performed on the Punch List, the Project does not meet the definition of “Complete” under Public Contract Code Section 7107(c)(1) even if there is “beneficial occupancy” of the Project since that has been no “cessation of labor” on the Project. Completion of Punch List under this Article is not “testing, startup, or commissioning by the public entity or its agent.” In other words, the continuing Punch List Work is Trade Contractor labor on the Project until each and every item of Punch List Work is complete or the time periods under Article 9.9.1 have expired.

9.11.5 Warranties

Warranties required by the Contract Documents shall commence on the date of Completion of the entire Work. Warranty periods DO NOT commence at Substantial Completion or when a particular Subcontractor work is complete. No additional charges, extras, Change Orders, or Claims may be sought for warranties commencing from the Notice of Completion.

District shall have the right to utilize equipment, test, and operate as necessary for acclimation, or testing without voiding or starting warranties. Taking beneficial occupancy shall not start warranties except in the case where the District agrees, in writing, that warranties shall commence running or where the District is taking phased occupancy of specific buildings or areas and completes separate Punch Lists as further addressed in Article 4.2.7.

9.11.6 Time for Submission of Application for Final Payment and Retention Payment (Unilateral Processing of Final and Retention Payment Application).

If Trade Contractor submits a Final Payment Application which fails to include deductive items under Article 9.6, the District or Architect shall note this defective request for Final Payment Application. The Trade Contractor shall be notified that specific deductive items shall be included in the Final Payment Application. If Trade Contractor either continues to submit the Final Payment Application without deductive items under Article 9.6, or a period of 14 calendar days passes after Trade Contractor is provided written notice of deductive items for inclusion in Final Payment Application, then District may

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either alter the Final Payment Application and recalculate the math on the Final Payment Application to address the Article 9.6 deductive items or process a unilateral Final Payment Application.

9.11.7 Unilateral Release of Retention

After the recordation of the Notice of Completion, or within sixty (60) days following the completion of the Punch List or the expiration of the time for completion of Punch List under Article 9.9.1, if Trade Contractor does not make an Application for Release of Retention, the District may unilaterally release retention less any deducts under Article 9.6 and/or Article 2.2, withholds due to stop notices, or withholdings due to other defective Work on the Project. District may also choose to unilaterally release Retention after deduction of 150% of any disputed items, which may also include items under Article 9.6 and 2.2. If a deduction pursuant to Article 9.6 is made from Retention, a letter deducting specific valued items shall be considered a notice of Default under the terms of the Escrow Agreement.

9.12 SUBSTITUTION OF SECURITIES

The District will permit the substitution of securities in accordance with the provisions of Public Contract Code Section 22300 as set forth in the form contained in the Bid Documents.

ARTICLE 10
PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Trade Contractor Responsibility

The Trade Contractor shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the prosecution of this Contract and shall take all necessary measures and be responsible for the proper care and protection of all materials delivered and Work performed until completion and final acceptance by the District. All Work shall be solely at the Trade Contractor's risk, with the exception of damage to the Work caused by "acts of God" as defined in Public Contract Code Section 7105(b)(2).

Trade Contractor shall take, and require Subcontractor to take, all necessary precautions for safety of workers on the Work and shall comply with all applicable federal, state, local and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. In addition to meeting all requirements of OSHA, Cal-OSHA, state, and local codes, Trade Contractor shall furnish, erect and properly maintain at all times, as directed by District or Architect or required by conditions and progress of Work, all necessary safety devices, safeguards, construction canopies, signs, audible devices for protection of the blind, safety rails, belts and nets, barriers, lights, and watchmen for protection of workers and the public, and shall post danger signs warning against hazards created by such features in the course of construction. Trade Contractor shall designate a responsible member of its organization on the Work, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety and health of workers. The name and position of person so designated shall be reported to District by Trade Contractor. Trade Contractor shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, such violation shall be corrected promptly.

10.1.2 Subcontractor Responsibility

Trade Contractor shall require that its Subcontractors participate in, and enforce, the safety and loss prevention programs established by Trade Contractor for the Project, which will cover all Work performed by the Trade Contractor and its Subcontractors. Each Trade Contractor shall designate a responsible member of its organization whose duties shall include loss and accident prevention, and who shall have the responsibility and full authority to enforce the program. This person shall attend meetings with the representatives of the various Trade Contractors to ensure that all employees understand and comply with the programs.

10.1.3 Cooperation

All Trade Contractors, Subcontractors and material or equipment suppliers shall cooperate fully with CM, Architect, the District, and all insurance carriers and loss prevention engineers.

10.1.4 Accident Reports

Subcontractors shall immediately, within two (2) days, report in writing to the Trade Contractor all accidents whatsoever arising out of, or in connection with, the performance of the Work,

whether on or off the Site, which caused death, personal injury, or property damage, giving full details and statements of witnesses. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported within four (4) days by telephone or messenger. Trade Contractor shall thereafter immediately, within two (2) days, report the facts in writing to the District and the Architect giving full details of the accident.

10.1.5 First-Aid Supplies at Site

The Trade Contractor will provide and maintain at the Site first-aid supplies which complies with the current Occupational Safety and Health Regulations.

10.1.6 Material Safety Data Sheets and Compliance with Proposition 65

Trade Contractor is required to have material safety data sheets available in a readily accessible place at the job site for any material requiring a material safety data sheet per the Federal “hazard communication” standard, or employees’ “right-to-know law.” Trade Contractor is also required to properly label any substance brought into the job site, and require that any person working with the material, or within the general area of the material, is informed of the hazards of the substance and follows proper handling and protection procedures.

Trade Contractor is required to comply with the provisions of California Health and Safety Code Section 25249, et seq., which requires the posting and giving of notice to persons who may be exposed to any chemical known to the State of California to cause cancer. Trade Contractor agrees to familiarize itself with the provisions of this Section, and to comply fully with its requirements.

10.1.7 Non-Utilization of Asbestos Material

NO ASBESTOS OR ASBESTOS-CONTAINING PRODUCTS SHALL BE USED IN THIS CONSTRUCTION OR IN ANY TOOLS, DEVICES, CLOTHING, OR EQUIPMENT USED TO EFFECT THIS CONSTRUCTION.

Asbestos and/or asbestos-containing products shall be defined as all items containing, but not limited to, chrysotile, amosite, anthophyllite, tremolite, and antinolite.

Any or all material containing greater than one-tenth of one percent (>.1%) asbestos shall be defined as asbestos-containing material.

All Work or materials found to contain asbestos or Work or material installed with asbestos-containing equipment will be immediately rejected and this Work will be removed at no additional cost to the District.

Decontamination and removal of Work found to contain asbestos or Work installed with asbestos-containing equipment shall be done only under supervision of a qualified consultant, knowledgeable in the field of asbestos abatement and accredited by the Environmental Protection Agency.

The asbestos removal contractor shall be an EPA accredited contractor qualified in the removal of asbestos and shall be chosen and approved by the asbestos consultant, who shall have sole discretion and final determination in this matter.

The asbestos consultant shall be chosen and approved by the District, who shall have sole discretion and final determination in this matter.

The Work will not be accepted until asbestos contamination is reduced to levels deemed acceptable by the asbestos consultant.

Interface of Work under this Contract with Work containing asbestos shall be executed by Trade Contractor at his risk and at his discretion, with full knowledge of the currently accepted standards, hazards, risks, and liabilities associated with asbestos work and asbestos-containing products. By execution of this Contract, the Trade Contractor acknowledges the above and agrees to hold harmless District and its assigns for all asbestos liability which may be associated with this work and agrees to instruct his employees with respect to the above-mentioned standards, hazards, risks, and liabilities.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 Trade Contractor

Trade Contractor shall take reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury, or loss to:

- a. Employees on the Work and other persons who may be affected thereby;
- b. The Work, material, and equipment to be incorporated therein, whether in storage on or off the Site, under the care, custody, or control of Trade Contractor or Trade Contractor's Subcontractors or Sub-subcontractors; and
- c. Other property at the Site or adjacent thereto such as trees, shrubs, lawns, walks, pavement, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

Trade Contractor is constructive owner of Project site as more fully discussed in Article 6.2.

10.2.2 Trade Contractor Notices

Trade Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on the safety of persons or property or their protection from damage, injury, or loss.

10.2.3 Safety Barriers and Safeguards

Trade Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.4 Use or Storage of Hazardous Material

When use or storage of explosives, other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, Trade Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel. Trade Contractor shall notify the

District any time that explosives or hazardous materials are expected to be stored on Site. Location of storage shall be coordinated with the District and local fire authorities.

10.2.5 Protection of Work

Trade Contractor and Trade Contractor's Subcontractors shall continuously protect the Work, the District's property, and the property of others, from damage, injury, or loss arising in connection with operations under the Contract Documents. Trade Contractor and Trade Contractor's Subcontractors, at their own expense, shall make good any such damage, injury, or loss, except such as may be solely due to, or caused by, agents or employees of the District.

Trade Contractor, at Trade Contractor's expense, will remove all mud, water, or other elements as may be required for the proper protection and prosecution of its Work.

Trade Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations. All permits, licenses, or inspection fees required for such repair Work shall be obtained and paid for by Trade Contractor.

10.2.6 Requirements for Existing Sites

Trade Contractor shall (unless waived by the District in writing):

- a. When performing construction on existing sites, become informed and take into specific account the maturity of the students on the Site; and perform Work which may interfere with school routine before or after school hours, enclose working area with a substantial barricade, and arrange Work to cause a minimum amount of inconvenience and danger to students and faculty in their regular school activities. Trade Contractor shall comply with Specifications and directives of the District regarding the timing of certain construction activities in order to avoid unnecessary interference with school functioning.
- b. Avoid performing any Work that will disturb students during testing.
- c. Provide substantial barricades around any shrubs or trees indicated to be preserved.
- d. Deliver materials to building area over route designated by Architect.
- e. Take preventive measures to eliminate objectionable dust, noise, or other disturbances.
- f. Confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits or directions of Architect; and not interfere with the Work or unreasonably encumber premises or overload any structure with materials; and enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking and require that all workers comply with all regulations while on the Project site.

- g. Take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed by accident, they shall be replaced by an approved land surveyor or civil engineer and all maps and records required therefrom shall be filed with county and local authorities, at no cost to the District. All filing and plan check fees shall be paid by Trade Contractor.
- h. Provide District on request with Trade Contractor's written safety program and safety plan for each site.

10.2.7 Shoring and Structural Loading

Trade Contractor shall not impose structural loading upon any part of the Work under construction or upon existing construction on or adjacent to the Site in excess of safe limits, or loading such as to result in damage to the structural, architectural, mechanical, electrical, or other components of the Work. The design of all temporary construction equipment and appliances used in construction of the Work and not a permanent part thereof, including, without limitation, hoisting equipment, cribbing, shoring, and temporary bracing of structural steel, is the sole responsibility of Trade Contractor. All such items shall conform with the requirements of governing codes and all laws, ordinances, rules, regulations, and orders of all authorities having jurisdiction. Trade Contractor shall take special precautions, such as shoring of masonry walls and temporary tie bracing of structural steel Work, to prevent possible wind damage during construction of the Work. The installation of such bracing or shoring shall not damage the Work in place or the Work installed by others. Any damage which does occur shall be promptly repaired by Trade Contractor at no cost to the District.

10.2.8 Conformance within Established Limits

Trade Contractor and Trade Contractor's Subcontractors shall confine their construction equipment, the storage of materials, and the operations of workers to the limits indicated by laws, ordinances, permits, and the limits established by the District and CM, and shall not unreasonably encumber the premises with construction equipment or materials.

10.2.9 Subcontractor Enforcement of Rules

Trade Contractor shall enforce the District's and CM's instructions, laws, and regulations regarding signs, advertisements, fires, smoking, the presence of liquor, and the presence of firearms by any person at the Site.

10.2.10 Site Access

Trade Contractor and Trade Contractor's Subcontractors shall use only those ingress and egress routes designated by the District, observe the boundaries of the Site designated by the District, park only in those areas designated by the District, which areas may be on or off the Site, and comply with any parking control program established by the District, such as furnishing license plate information and placing identifying stickers on vehicles.

10.3 EMERGENCIES

10.3.1 Emergency Action

In an emergency affecting the safety of persons or property, the Trade Contractor shall take any action necessary, at the Trade Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Trade Contractor on account of an emergency shall be determined as provided in Article 7.

10.3.2 Accident Reports

Trade Contractor shall promptly report in writing to the District all accidents arising out of or in connection with the Work, which caused death, personal injury, or property damage, giving full details and statements of any witnesses in conformance with Article 10.1.4. In addition, if death, serious personal injuries, or serious property damages are caused, the accident shall be reported in accordance with Article 10.1.4, immediately by telephone or messenger to the District.

10.4 HAZARDOUS MATERIALS

10.4.1 Discovery of Hazardous Materials

In the event the Trade Contractor encounters or suspects the presence on the job site of material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or any other material defined as being hazardous by § 25249.5 of the California Health and Safety Code, which has not been rendered harmless, the Trade Contractor shall immediately stop Work in the area affected and report the condition to the District and the Architect in writing, whether or not such material was generated by the Trade Contractor or the District. The Work in the affected area shall not thereafter be resumed, except by written agreement of the District and the Trade Contractor, if in fact the material is asbestos, polychlorinated biphenyl (PCB), or other hazardous material, and has not been rendered harmless. The Work in the affected area shall be resumed only in the absence of asbestos, polychlorinated biphenyl (PCB), or other hazardous material, or when it has been rendered harmless by written agreement of the District and the Trade Contractor.

10.4.2 Hazardous Material Work Limitations

In the event that the presence of hazardous materials is suspected or discovered on the Site (except in cases where asbestos and other hazardous material Work in the Trade Contractor's responsibility), the District shall retain an independent testing laboratory to determine the nature of the material encountered and whether corrective measures or remedial action is required. The Trade Contractor shall not be required pursuant to Article 7 to perform without consent any Work in the affected area of the Site relating to asbestos, polychlorinated biphenyl (PCB), or other hazardous material, until any known or suspected hazardous material has been removed, or rendered harmless, or determined to be harmless by District, as certified by an independent testing laboratory and approved by the appropriate government agency.

10.4.3 Indemnification by Trade Contractor for Hazardous Material Caused by Trade Contractor

In the event the hazardous materials on the Project Site is caused by the Trade Contractor, the Trade Contractor shall pay for all costs of testing and remediation, if any, and shall compensate the District for any additional costs incurred as a result of Trade Contractor's generation of hazardous

material on the Project Site. In addition, the Trade Contractor shall defend, indemnify and hold harmless District and its agents, officers, and employees from and against any and all claims, damages, losses, costs and expenses incurred in connection with, arising out of, or relating to, the presence of hazardous material on the Project Site.

10.4.4 Terms of Hazardous Material Provision

The terms of this Hazardous Material provision shall survive the completion of the Work and/or any termination of this Contract.

**ARTICLE 11
INSURANCE AND BONDS**

11.1 TRADE CONTRACTOR'S LIABILITY INSURANCE

11.1.1 Insurance Requirements

Before the commencement of the Work, the Trade Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in California with a financial rating of at least an A-VIII status as rated in the most recent edition of Best's Insurance Reports or as amended by the Supplementary General Conditions, such insurance as will protect the District from claims set forth below, which may arise out of or result from the Trade Contractor's Work under the Contract and for which the Trade Contractor may be legally liable, whether such Work are by the Trade Contractor, by a Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Any required insurance shall not contain any exclusion that applies to the type of work performed by the Trade Contractor under the Contract Documents.

- i. Claims for damages because of bodily injury, sickness, disease, or death of any person District would require indemnification and coverage for employee claim;
- j. Claims for damages insured by usual personal injury liability coverage, which are sustained by a person as a result of an offense directly or indirectly related to employment of such person by the Trade Contractor or by another person;
- k. Claims for damages because of injury or destruction of tangible property, including loss of use resulting therefrom, arising from operations under the Contract Documents;
- l. Claims for damages because of bodily injury, death of a person, or property damage arising out of the ownership, maintenance, or use of a motor vehicle, all mobile equipment, and vehicles moving under their own power and engaged in the Work;
- m. Claims involving contractual liability applicable to the Trade Contractor's obligations under the Contract Documents, including liability assumed by and the indemnity and defense obligations of the Trade Contractor and the Subcontractors; and
- n. Claims involving Completed Operations, Independent Contractors' coverage, and Broad Form property damage, without any exclusions for collapse, explosion, demolition, underground coverage, and excavating. (XCU)
- o. Claims involving sudden or accidental discharge of contaminants or pollutants.

11.1.2 Specific Insurance Requirements

Trade Contractor shall take out and maintain and shall require all Subcontractors, if any, whether primary or secondary, to take out and maintain:

Comprehensive General Liability Insurance with a combined single limit per occurrence of not less than \$2,000,000.00 or Commercial General Liability Insurance which provides limits of not less than:

- (a) Per occurrence (combined single limit) \$2,000,000.00
- (b) Project Specific Aggregate (for this Project only) \$2,000,000.00
- (c) Products and Completed Operations (aggregate) \$2,000,000.00
- (d) Personal and Advertising Injury Limit \$1,000,000.00
- (e) Sexual Abuse or Molestation \$3,000,000.00

Insurance Covering Special Hazards

The following Special hazards shall be covered by riders or riders to above mentioned public liability insurance or property damage insurance policy or policies of insurance, in amounts as follows:

- (a) Automotive and truck where operated in amounts \$1,000,000.00
- (b) Material Hoist where used in amounts \$1,000,000.00
- (c) Explosion, Collapse and Underground (XCU coverage) \$1,000,000.00
- (d) Hazardous Materials \$1,000,000.00

In addition, provide Excess Liability Insurance coverage in the amount of Four Million Dollars (\$4,000,000.00).

11.1.3 Subcontractor Insurance Requirements

The Trade Contractor shall require its Subcontractors to take out and maintain public liability insurance and property damage insurance required under Article 11.1 in like amounts. A “claims made” or modified “occurrence” policy shall not satisfy the requirements of Article 11.1 without prior written approval of the District.

11.1.4 Additional Insured Endorsement Requirements

The Trade Contractor shall name, on any policy of insurance required under Article 11.1, the District, CM, Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. Subcontractors shall name the Trade Contractor, the District, Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. The Additional Insured Endorsement included on all such insurance policies shall be an ISO CG 20 10 (04/13), or an ISO CG 20 38 (04/13), or their equivalent as determined by the District in its sole discretion, and must state that coverage is afforded the additional insured with respect to claims arising out of operations performed by or on behalf of the insured. If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be on

an excess or contingent basis. The insurance provided by the Trade Contractor pursuant to 11.1 must be designated in the policy as primary to any insurance obtained by the District. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

11.2 WORKERS' COMPENSATION INSURANCE

During the term of this Contract, the Trade Contractor shall provide workers' compensation and employer's liability insurance for all of the Trade Contractor's employees engaged in Work under this Contract on or at the Site of the Project and, in case any of the Trade Contractor's Work is subcontracted, the Trade Contractor shall require the Subcontractor to provide workers' compensation insurance for all the Subcontractor's employees engaged in Work under the subcontract. Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by the Trade Contractor's insurance. In case any class of employees engaged in Work under this Contract on or at the Site of the Project is not protected under the Workers' Compensation laws, the Trade Contractor shall provide or cause a Subcontractor to provide insurance coverage for the protection of those employees not otherwise protected. The Trade Contractor shall file with the District certificates of insurance as required under Article 11.7 and in compliance with Labor Code § 3700.

Workers' compensation limits as required by the Labor Code, but not less than \$1,000,000 and employers' liability limits of \$1,000,000 per accident for bodily injury or disease.

11.3 BUILDER'S RISK/ "ALL RISK" INSURANCE

Trade Contractor is not required to provide Builders Risk under this Article.

11.3.1 DISTRICT is to provide coverage in the amount of the full value of the project for losses due to fire, vandalism and theft with a maximum deductible of five thousand dollars per loss. Each contractor is responsible for a share of the deductible proportionate to his/her portion of the total loss. Any portions of CONTRACTOR's work and materials stored offsite are not to be covered under such insurance. In addition, CONTRACTOR is required to provide evidence that stored materials are covered under a separate policy. Property and equipment owned by Contractors or others which are not to be installed in the project are not afforded coverage by the DISTRICT's insurance. The CONTRACTOR shall be responsible for the securing and maintaining of fire insurance and other insurance on any tool, equipment, or supplies which are expected to remain his property. Coverage under the DISTRICT's policy is not construed to extend to earthquake, flood, pollution, and other commonly excluded perils.

The DISTRICT and CONTRACTOR waive all rights against each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and the ARCHITECT, ARCHITECT's consultants, the CONSTRUCTION MANAGER, separate contractors, if any and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other perils to the extent covered by insurance obtained pursuant to this Article or other property insurance applicable to the work, except such rights as they have to proceeds of such insurance. The DISTRICT or CONTRACTOR, as appropriate shall require separate contractors if any, and the subcontractors, sub-subcontractors, agents and employees of any of them by appropriate agreements, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

11.4 FIRE INSURANCE

Before the commencement of the Work, the Trade Contractor shall procure, maintain, and cause to be maintained at the Trade Contractor's expense, fire insurance on all Work subject to loss or damage by fire. The amount of fire insurance shall be sufficient to protect the Project against loss or damage in full until the Work is accepted by the District. This requirement may be waived upon confirmation by the District that such coverage is provided under the Builder's Risk Insurance being provided.

11.5 AUTOMOBILE LIABILITY

11.5.1 The District, Architect and Construction Manager, Inspectors, their directors, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Contractor or for which the Contractor is responsible. Such insurance coverage shall be primary and non-contributory insurance as respects the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it. The insurer shall agree to waive all rights of subrogation against the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy that arise from Work performed by the Contractor.

11.5.2 Insurance Services Office Business Auto Coverage Form Number CA 0001, Code 1 (any auto) is required. Comprehensive Automobile Liability insurance to include all autos, owned, non-owned, and hired, with limits of \$1,000,000 per accident for bodily injury and property damage.

11.6 OTHER INSURANCE

The Trade Contractor shall provide all other insurance required to be maintained under applicable laws, ordinances, rules, and regulations.

11.7 PROOF OF INSURANCE

The Trade Contractor shall not commence Work nor shall it allow any Subcontractor to commence Work under this Contract until all required insurance and certificates have been obtained and delivered in duplicate to the District for approval subject to the following requirements:

- p. Certificates and insurance policies shall include the following clause:

“This policy and any coverage shall not be suspended, voided, non-renewed, canceled, or reduced in required limits of liability or amounts of insurance or coverage until notice has been mailed via certified mail to the District and CM. Date of cancellation or reduction may not be less than thirty (30) days after the date of mailing notice.”
- q. Certificates of insurance shall state in particular those insured, the extent of insurance, location and operation to which the insurance applies, the expiration date, and cancellation and reduction notices.

- r. Certificates of insurance shall clearly state that the District and the Architect are named as additional insureds under the policy described and that such insurance policy shall be primary to any insurance or self-insurance maintained by District.
- s. The Trade Contractor and its Subcontractors shall produce a certified copy of any insurance policy required under this Section upon written request of the District.

11.8 COMPLIANCE

In the event of the failure of Trade Contractor to furnish and maintain any insurance required by this Article 11, the Trade Contractor shall be in default under the Contract. Compliance by Trade Contractor with the requirement to carry insurance and furnish certificates or policies evidencing the same shall not relieve the Trade Contractor from liability assumed under any provision of the Contract Documents, including, without limitation, the obligation to defend and indemnify the District and the Architect.

11.9 WAIVER OF SUBROGATION

Trade Contractor waives (to the extent permitted by law) any right to recover against the District for damages to the Work, any part thereof, or any and all claims arising by reason of any of the foregoing, but only to the extent that such damages and/or claims are covered by property insurance and only to the extent of such coverage (which shall exclude deductible amounts) by insurance actually carried by the District.

The provisions of this Section are intended to restrict each party to recovery against insurance carriers only to the extent of such coverage and waive fully and for the benefit of each, any rights and/or claims which might give rise to a right of subrogation in any insurance carrier. The District and the Trade Contractor shall each obtain in all policies of insurance carried by either of them, a waiver by the insurance companies thereunder of all rights of recovery by way of subrogation for any damages or claims covered by the insurance.

11.10 PERFORMANCE AND PAYMENT BONDS

11.10.1 Bond Requirements

Unless otherwise specified in the Supplemental Conditions, prior to commencing any portion of the Work, the Trade Contractor shall furnish separate Payment and Performance Bonds for its portion of the Work which shall cover 100% faithful performance of and payment of all obligations arising under the Contract Documents and/or guaranteeing the payment in full of all claims for labor performed and materials supplied for the Work. All bonds shall be provided by a corporate Surety authorized and admitted to transact business in California as sureties.

To the extent, if any, that the Contract Price is increased in accordance with the Contract Documents, the Trade Contractor shall, upon request of the District, cause the amount of the bonds to be increased accordingly and shall promptly deliver satisfactory evidence of such increase to the District. To the extent available, the bonds shall further provide that no change or alteration of the Contract Documents (including, without limitation, an increase in the Contract Price, as referred to above), extensions of time, or modifications of the time, terms, or conditions of payment to the Trade Contractor will release the Surety. If the Trade Contractor fails to furnish the required bonds, the District may terminate the Contract for cause.

11.10.2 Surety Qualification

Only bonds executed by admitted Surety insurers as defined in Code of Civil Procedure § 995.120 shall be accepted. Surety must be a California-admitted Surety and listed by the U.S. Treasury with a bonding capacity in excess of the Project cost.

11.10.3 Alternate Surety Qualifications

If a California-admitted Surety insurer issuing bonds does not meet these requirements, the insurer will be considered qualified if it is in conformance with § 995.660 of the California Code of Civil Procedure and proof of such is provided to the District.

ARTICLE 12
UNCOVERING AND CORRECTION OF WORK

12.1 COMPLIANCE WITH TITLE 24 INSTALLATION REQUIREMENTS

Trade Contractor is aware of the requirements governing Trade Contractor’s Work under title 24 Section 4-343 which provides, in pertinent part:

4-343. Duties of the Contractor.

(a) **Responsibilities.** It is the duty of the contractor to complete the work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the architect, engineer, Inspector or DSA in the performance of such duties.

(b) **Performance of the Work.** The contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time. If at any time it is discovered that Work is being done which is not in accordance with the approved Plans and Specifications, the contractor shall correct the Work immediately. All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the Inspector, for interpretation or correction. In no case, however, shall the instruction of the architect or registered engineer be construed to cause Work to be done which is not in conformity with the approved Plans, Specifications, and Change Orders. The contractor must notify the Project Inspector, in advance, of the commencement of construction of each and every aspect of the Work.

12.1.1 Issuance of Notices of Non-Compliance

The Inspector may issue a Notice of Non-Compliance on the Project indicating deviation from Plans and Specifications. It is Trade Contractor’s responsibility to correct all deviations from the approved Plans and Specifications unless the District has issued an Immediate Change Directive. In such case, the Trade Contractor shall proceed with the Work with the understandings of the District as set forth in the ICD and as specifically noted in Article 7.3.

12.2 SPECIAL NOTICE OF AMERICANS WITH DISABILITIES ACT

Some of the requirements in the Plans and Specifications are meant to comply with the Americans with Disabilities Act (“ADA”). The requirements of the ADA are technical in nature and may appear to be minor in nature (i.e. whether a walkway or ramp has a 2% cross-slope). Trade Contractor is warned that even the slightest deviation from the specific requirements from the ADA is considered a Civil Rights violation and subjects the District to fines of three times actual damages sustained by a handicap individual or up to \$4,000 per violation and attorney’s fees required to enforce the ADA violation. As a result of the significant liability and exposure associated with ADA aspects of the Contract, Trade Contractor shall take special care to meet all ADA requirements detailed in the Plans and Specifications. Failure to comply with ADA rules that results in a Notice of Non-Compliance shall be repaired to meet ADA requirements promptly. In addition, any ADA violations that are not identified by Inspector or Architect that are later identified shall be repaired and charged back to the Trade Contractor through a Deductive Change Order.

12.2.1 Indemnification of ADA Claims

Trade Contractor shall indemnify, hold harmless and defend the District from ADA claims arising from the failure to comply with the Plans and Specifications. Further, any withholdings for ADA violations under Article 9.6 shall include potential redesign costs and an accelerated repair costs due to the potential for ADA claims arising from DSA posting of ADA violations on the Project.

12.3 UNCOVERING OF WORK

12.3.1 Uncovering Work for Required Inspections

Work shall not be covered without the Inspector's review and the Architect's knowledge that the Work conforms with the requirements of the approved Plans and Specifications (except in the case of an ICD under Article 7.3). Inspector must be timely notified of inspections and of new areas so Work can be inspected at least 48 hours before opening a new area (For example, see DSA Form 156 for Commencement/Completion of Work Notification which requires "at least 48 hour" advance notification of a new area). An Inspector must comply with DSA protocols for signing each category or phase of Work under DSA Form 152 (in compliance with the Form 152 Manual) or a Notice of Deviation (DSA Form 154) will be issued requiring the Work that was not inspected be uncovered for inspection. Thus, if a portion of the Work is covered without inspection or Architect approval, is subject to a Notice of Non-Compliance for being undertaken without inspection, or otherwise not in compliance with the Contract Documents, after issuance of a Written Notice of Non-Compliance (Form 154) or a written notice to uncover Work, Trade Contractor shall promptly uncover all Work (which includes furnishing all necessary facilities, labor, and material) for the Inspector's or the Architect's observation and such Work shall be replaced at the Trade Contractor's expense without change in the Contract Sum or Time.

12.3.2 Costs for Inspections Not Required

If a portion of the Work has been covered is believed to be Non-Conforming to the Plans and Specifications, even if the Form 152 for the category of Work has been signed by the Inspector, the Inspector or the Architect may request to see such Work, and it shall be promptly uncovered by the Trade Contractor. If such Work is in accordance with the Contract Documents, costs of uncover and replacement shall, by appropriate Change Order and shall, be charged to the District. If such Work is not in accordance with Contract Documents, the Trade Contractor shall be responsible for all costs to uncover the Work, delays incurred to uncover the Work, and Trade Contractor shall pay all costs to correct the Non-Conforming construction condition unless the condition was caused by the District or a separate contractor, in which event the District shall be responsible for payment of such costs to the Trade Contractor.

12.4 CORRECTION OF WORK

12.4.1 Correction of Rejected Work

The Trade Contractor shall promptly correct the Work rejected by the Inspector or the District upon recommendation of the Architect as failing to conform to the requirements of the Contract Documents, whether observed before or after Completion and whether or not Fabricated, installed, or completed. The Trade Contractor shall bear costs of correcting the rejected Work, including cost for delays that may be incurred by other Trade Contractor or Subcontractors, the cost for additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made

necessary thereby (including costs for preparing a CCD, DSA CCD review fees, and additional inspection and special inspection costs).

12.4.2 One-Year Warranty Corrections

If, within one (1) year after the date of Completion of the Work or a designated portion thereof, or after the date for commencement of warranties established under Article 9.11.5 or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Trade Contractor shall correct it promptly after receipt of written notice from the District to do so unless the District has previously given the Trade Contractor a written acceptance of such condition. This period of one (1) year shall be extended with respect to portions of the Work first performed after Completion by the period of time between Completion and the actual performance of the Work. This obligation under this Article 12.4.2 shall survive acceptance of the Work under the Contract and Termination of the Contract. The District shall give such notice promptly after discovery of the condition.

12.4.3 District's Rights if Trade Contractor Fails to Correct

If the Trade Contractor fails to correct nonconforming Work within a reasonable time, the District may correct the Work and seek a Deductive Change Order, pursuant to Article 9.6 or Article 2.2.

ARTICLE 13
MISCELLANEOUS PROVISIONS

13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located.

13.2 SUCCESSORS AND ASSIGNS

The District and the Trade Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

13.3 WRITTEN NOTICE

In the absence of specific notice requirements in the Contract Documents, written notice shall be deemed to have been duly served if delivered in person to the individual, member of the firm or entity, or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

13.4 RIGHTS AND REMEDIES

13.4.1 Duties and Obligations Cumulative

Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

13.4.2 No Waiver

No action or failure to act by the Inspector, the District, or the Architect shall constitute a waiver of a right or duty afforded them under the Contract Documents, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.

13.5 TESTS AND INSPECTIONS

13.5.1 Compliance

Tests, inspections, and approvals of portions of the Work required by the Contract Documents will comply with Division 1, Title 24, and with all other laws, ordinances, rules, regulations, or orders of public authorities having jurisdiction.

13.5.2 Independent Testing Laboratory

The District will select and pay an independent testing laboratory to conduct all tests and inspections. Selection of the materials required to be tested shall be made by the laboratory or the

District's representative and not by the Trade Contractor. See Articles 3.14.1 and 4.3.6 regarding costs or expenses of inspection or testing incurred outside of the Project Site.

13.5.3 Advance Notice to Inspector

The Trade Contractor shall notify the Inspector a sufficient time in advance of its readiness for required observation or inspection so that the Inspector may arrange for same. The Trade Contractor shall notify the Inspector a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents which must, by terms of the Contract Documents, be tested in order that the Inspector may arrange for the testing of the material at the source of supply.

13.5.4 Testing Off-Site

Any material shipped by the Trade Contractor from the source of supply, prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said Inspector that such testing and inspection will not be required, shall not be incorporated in the Work.

13.5.5 Additional Testing or Inspection

If the Inspector, the Architect, the District, or public authority having jurisdiction determines that portions of the Work require additional testing, inspection, or approval not included under Article 13.5.1, the Inspector will, upon written authorization from the District, make arrangements for such additional testing, inspection, or approval. The District shall bear such costs except as provided in Articles 13.5.6 and 13.5.7.

13.5.6 Costs for Retesting

If such procedures for testing, inspection, or approval under Articles 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, the Trade Contractor shall bear all costs arising from such failure, including those of re-testing, re-inspection, or re-approval, including, but not limited to, compensation for the Architect's services and expenses. Any such costs shall be paid by the District, invoiced to the Trade Contractor, and deducted from the next Progress Payment.

13.5.7 Costs for Premature Test

In the event the Trade Contractor requests any test or inspection for the Project and is not completely ready for the inspection, the Trade Contractor shall be invoiced by the District for all costs and expenses resulting from that testing or inspection, including, but not limited to, the Inspector's and Architect's fees and expenses, and the amount of the invoice shall be deducted from the next Progress Payment.

13.6 TRENCH EXCAVATION

13.6.1 Trenches Greater Than Five Feet

Pursuant to Labor Code Section 6705, if the Contract Price exceeds \$25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Trade Contractor shall, in advance of excavation, submit to the District or a registered civil or structural engineer employed by the

District or Architect, a detailed plan showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

13.6.2 Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

13.6.3 No Tort Liability of District

Pursuant to Labor Code § 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

13.6.4 No Excavation without Permits

The Trade Contractor shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

13.7 WAGE RATES, TRAVEL, AND SUBSISTENCE

13.7.1 Wage Rates

Pursuant to the provisions of Article 2 (commencing at § 1720), Chapter 1, Part 7, Division 2, of the Labor Code, the District has obtained the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public works project is to be performed for each craft, classification, or type of worker needed for this Project from the Director of the Department of Industrial Relations (“Director”). These rates are on file at the administrative office of the District and are also available from the Director of the Department of Industrial Relations. Copies will be made available to any interested party on request. The Trade Contractor shall post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

Any worker employed to perform Work on the Project, but such Work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

13.7.2 Holiday and Overtime Pay

Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

13.7.3 Wage Rates Not Affected by Subcontracts

The Trade Contractor shall pay and shall cause to be paid each worker engaged in the execution of the Work on the Project not less than the general prevailing rate of per diem wages determined by the Director, regardless of any contractual relationship which may be alleged to exist between the Trade Contractor or any Subcontractor and such workers.

13.7.4 Per Diem Wages

The Trade Contractor shall pay and shall cause to be paid to each worker needed to execute the Work on the Project per diem wages including, but not limited to, employer payments for health and welfare, pensions, vacation, travel time and subsistence pay as provided for in Labor Code §1773.1.

13.7.5 Forfeiture and Payments

Pursuant to Labor Code §1775, the Trade Contractor shall forfeit to the District, not more than Two Hundred Dollars (\$200.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing wages rates as determined by the Director of the Department of Industrial Relations, for the work or craft in which the worker is employed for any Work done under the Agreement by the Trade Contractor or by any Subcontractor under it. The amount of the penalty shall be determined by the Labor Commissioner and shall be based on consideration of: (1) whether the Trade Contractor or Subcontractor's failure to pay the correct rate of per diem wages was a good faith mistake and, if so, the error was promptly and voluntarily correct upon being brought to the attention of the Trade Contractor or Subcontractor; and (2) whether the Trade Contractor or Subcontractor has a prior record of failing to meet its prevailing wage obligations.

13.7.6 Monitoring and Enforcement by Labor Commissioner

Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE). The Contractor and all Subcontractors shall be required to furnish, at least monthly, certified payroll records directly to the Labor Commissioner in accordance with Labor Code section 1771.4. All payroll records shall be furnished in a format required by the Labor Commissioner. The Contractor and all Subcontractors must sign up for, and utilize, the Labor Commissioner's electronic certified payroll records submission system. The District will have direct and immediate access to all CPRs for the Project that are submitted through the Labor Commissioner's system. The District can use this information for any appropriate purpose, including monitoring compliance, identifying suspected violations, and responding to Public Records Act requests.

The Labor Commissioner/ DLSE may conduct various compliance monitoring and enforcement activities including, but not limited to, confirming the accuracy of payroll records, conducting worker interviews, conducting audits, requiring submission of itemized statements prepared in accordance with Labor Code section 226, and conducting random in-person inspections of the Project site ("On-Site Visits"). On-Site Visits may include inspections of records, inspections of the Work site and observation of work activities, interviews of workers and others involved with the Project, and any other activities deemed necessary by the Labor Commissioner/DLSE to ensure compliance with prevailing wage requirements. The Labor Commissioner/DLSE shall have free access to any construction site or other place of labor and may obtain any information or statistics pertaining to the lawful duties of the Labor Commissioner/DLSE.

Any lawful activities conducted or any requests made by the Labor Commissioner/DLSE shall not be the basis for any delays, claims, costs, damages or liability of any kind against the District by the Contractor. Contractor and all Subcontractors shall cooperate and comply with any lawful requests by the Labor Commissioner/ DLSE. The failure of the Labor Commissioner, DLSE, or any other entity related to the Department of Industrial Relations to comply with any requirement imposed by the California Code of Regulations, Title 8, Chapter 8 shall not of itself constitute a defense to the failure to pay prevailing wages or to comply with any other obligation imposed by Division 2, Part 7, Chapter 1 of the Labor Code.

Prior to commencing any Work on the Project, the Contractor shall post the required notice/poster required under the California Code of Regulations and Labor Code section 1771.4 in both English and Spanish at a conspicuous, weatherproof area at the Project site. The required notice/poster is available on the Labor Commissioner’s website.

13.8 RECORDS OF WAGES PAID

13.8.1 Payroll Records

- t. Pursuant to §1776 of the Labor Code, the Trade Contractor and Subcontractor shall keep an accurate payroll record showing the name, address, social security number, work classification and straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by him or her in connection with the Project.

All payroll records as specified in Labor Code §1776 of the Trade Contractor and all Subcontractors shall be certified and furnished directly to the Labor Commissioner in accordance with Labor Code §1771.4(a)(3) on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. Payroll records as specified in Labor Code §1776 shall be certified and submitted to the District with each application for payment. All payroll records shall be available for inspection at all reasonable hours at the principal office of the Trade Contractor on the following basis:

1. A certified copy of an employee’s payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request.
2. A certified copy of all payroll records shall be made available for inspection or furnished upon request to a representative of District, the Division of Labor Standards Enforcement or the Division of Apprenticeship Standards of the Department of Industrial Relations.
3. A certified copy of all payroll records shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement. If the requested payroll records have not been provided pursuant to Paragraph (2) above, the requesting party shall, prior to being

provided the records, reimburse the costs, according to law for the preparation by the Trade Contractor, Subcontractor(s), and the entity through which the request was made. The public shall not be given access to such records at the principal office of the Trade Contractor.

- u. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division of Labor Standards Enforcement.
- v. The Trade Contractor or Subcontractor(s) shall file a certified copy of all payroll records with the entity that requested such records within 10 calendar days after receipt of a written request.
- w. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or obliterated to prevent disclosure of an individual's name, address and social security number. The name and address of the Trade Contractor awarded the Contract or the Subcontractor(s) performing the Contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent disclosure of an individual's name and social security number. Notwithstanding any other provision of law, agencies that are included in the Joint Enforcement Strike Force on the Underground Economy established pursuant to Section 329 of the Unemployment Insurance Code and other law enforcement agencies investigating violations of law shall, upon request, be provided non-redacted copies of certified payroll records.
- x. The Trade Contractor shall inform the District of the location of all payroll records, including the street address, city and county, and shall, within five business days, provide a notice of a change of location and address.
- y. The Trade Contractor or Subcontractor(s) shall have 10 calendar days in which to comply subsequent to receipt of a written notice requesting payroll records. In the event that the Trade Contractor or Subcontractor(s) fails to comply within the 10-day period, the Trade Contractor or Subcontractor(s) shall, as a penalty to the District, forfeit One Hundred Dollars (\$100.00) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

Responsibility for compliance with this Article shall rest upon the Trade Contractor.

13.8.2 Withholding of Contract Payments & Penalties

The District may withhold or delay contract payments to the Trade Contractor and/or any Subcontractor if:

- z. The required prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations is not paid to all workers employed on the Project; or
- aa. The Trade Contractor or its Subcontractor(s) fail to submit all required certified payroll records with each application for payment, but not less than once per month; or
- bb. The Trade Contractor or its Subcontractor(s) submit incomplete or inadequate payroll records; or
- cc. The Trade Contractor or its Subcontractor(s) fail to comply with the Labor Code requirements concerning apprentices; or
- dd. The Trade Contractor or Its Subcontractor(s) fail to comply with any applicable state laws governing workers on public works projects.

13.9 APPRENTICES

13.9.1 Apprentice Wages and Definitions

All apprentices employed by the Trade Contractor to perform services under the Contract shall be paid the standard wage paid to apprentices under the regulations of the craft or trade for which he or she is employed, and as determined by the Director of the Department of Industrial Relations, and shall be employed only at the craft or trade to which he or she is registered. Only apprentices, as defined in §3077 of the Labor Code, who are in training under apprenticeship standards that have been approved by the Chief of the Division of Apprenticeship Standards and who are parties to written apprenticeship agreements under Chapter 4 (commencing with §3070) of Division 3, are eligible to be employed under this Contract. The employment and training of each apprentice shall be in accordance with the apprenticeship standards and apprentice agreements under which he or she is training, or in accordance with the rules and regulations of the California Apprenticeship Council.

13.9.2 Employment of Apprentices

Trade Contractor agrees to comply with the requirements of Labor Code §1777.5. The Trade Contractor awarded the Project, or any of Trade Contractor’s Subcontractor under him or her, when performing any of the Work under the Contract or subcontract, employs workers in any apprenticeable craft or trade, the Trade Contractor and its Subcontractor shall employ apprentices in the ratio set forth in Labor Code §1777.5. The Trade Contractor or any Subcontractor must apply to any apprenticeship program in the craft or trade that can provide apprentices to the Project site for a certificate approving the contractor or subcontractor under the apprenticeship standards for the employment and training of apprentices in the area or industry affected. However, the decision of the apprenticeship program to approve or deny a certificate shall be subject to review by the Administrator of Apprenticeship. The apprenticeship program or programs, upon approving the Trade Contractor or Subcontractor, shall arrange for the dispatch of apprentices to the Trade Contractor or Subcontractor upon the Trade Contractor’s or Subcontractor’s request. “Apprenticeable craft or trade” as used in this Article means a craft or trade determined as an apprenticeable occupation in accordance with the rules and regulations prescribed by the California Apprenticeship Council. The ratio of work performed by apprentices to journeyman employed in a particular craft or trade on the Project shall be in accordance with Labor Code §1777.5.

13.9.3 Submission of Contract Information

Prior to commencing Work on the Project, the Trade Contractor and Subcontractors shall submit contract award information to the applicable apprenticeship program(s) that can supply apprentices to the Project and make the request for the dispatch of apprentices in accordance with the Labor Code. The information submitted shall include an estimate of journeyman hours to be performed under the Contract, the number of apprentices proposed to be employed, and the approximate dates the apprentices would be employed. A copy of this information shall also be submitted to the District if requested. Within 60 days after concluding Work on the Project, the Trade Contractor and Its Subcontractors shall submit to the District, if requested, and to the apprenticeship program a verified statement of the journeyman and apprentice hours performed on the Project.

13.9.4 Apprentice Fund

The Trade Contractor or any of its Subcontractor under him or her, who, in performing any of the Work under the Contract, employs journeymen or apprentices in any apprenticeable craft or trade shall contribute to the California Apprenticeship Council the same amount that the Director determines is the prevailing amount of apprenticeship training contributions in the area of the Project. The Trade Contractor and its Subcontractors may take as a credit for payments to the California Apprenticeship Council any amounts paid by the Trade Contractor or its Subcontractor to an approved apprenticeship program that can supply apprentices to the Project. The Trade Contractor and its Subcontractors may add the amount of the contributions in computing his or her bid for the Contract.

13.9.5 Trade Contractor Compliance

The responsibility of compliance with Article 13 and §1777.5 of the Labor Code for all apprenticeable occupations is with the Trade Contractor. Any Trade Contractor or Subcontractor that knowingly violates the provisions of this Article or Labor Code §1777.5 shall be subject to the penalties set forth in Labor Code §1777.7.

13.10 ASSIGNMENT OF ANTITRUST CLAIMS

13.10.1 Application

Pursuant to Government Code § 4551, in entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Trade Contractor or Subcontractor offers and agrees to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act, (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 [commencing with § 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders Retention Payment to the Trade Contractor, without further acknowledgment by the parties. If the District receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Chapter 11 (commencing with § 4550) of Division 5 of Title 1 of the Government Code, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the District any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the District as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

13.10.2 Assignment of Claim

Upon demand in writing by the assignor, the District shall, within one (1) year from such demand, reassign the cause of action assigned pursuant to this Article if the assignor has been or may have been injured by the violation of law for which the cause of action arose and the District has not been injured thereby or the District declines to file a court action for the cause of action.

13.11 STATE AND DISTRICT CONDUCTED AUDITS

Pursuant to and in accordance with the provisions of Government Code § 10532, or any amendments thereto, all books, records, and files of the District, the Trade Contractor, or any Subcontractor connected with the performance of this Contract involving the expenditure of state funds in excess of Ten Thousand Dollars (\$10,000.00), including, but not limited to, the administration thereof, shall be subject to the examination and audit of the Office of the Auditor General of the State of California for a period of five (5) years after Retention Payment is made or a Notice of Completion is Recorded, whichever occurs first. Trade Contractor shall preserve and cause to be preserved such books, records, hard drives, electronic media, and files for the audit period.

Pursuant to the remedies under Public Contract Code Section 9201 and Government Code Section 930.2, Trade Contractor, through execution of this Agreement, also agrees the District shall have the right to review and audit, upon reasonable notice, the books and records of the Trade Contractor concerning any monies associated with the Project. The purpose of this "Audit" is to quickly and efficiently resolve Disputes based on the actual costs incurred and to reduce the uncertainty in resolving Disputes with limited information. The District shall perform any audits at its own cost and any such audit shall be performed by an independent auditor, having no direct or indirect relationship with the functions or activities being audited or with the business conducted by the Trade Contractor or District. In the event the independent auditor determines that Change Orders, response to Request for Proposals, Claims, Appeal of Claims, or other requests for payment are in error, or has any other concerns or questions, the Auditor shall report the results of the Audit findings to the District and provide a copy to the Trade Contractor after giving the District Board the opportunity for at least 10 days review. If the Trade Contractor disputes the findings of the independent auditor, such dispute shall be handled in the manner set forth under Article 4.6.2 entitled Disputes.

If Trade Contractor having agreed to the terms of this Contract fails to produce books or records requested by Auditor, such failure to produce books or records that were required to be preserved for audit, it shall be presumed that the information contained in the withheld books or records were unfavorable to the Trade Contractor and the Auditor shall note this refusal in the results of the Audit findings for further evaluation by the District and the District's Board. The refusal to release records that are concerning monies associated with the Project may be used as a grounds to debar the Trade Contractor under Article 15 for failure to preserve records under Article 13.11 and the failure to produce required audit records may also be used as a grounds for a negative finding against the Trade Contractor depending on the significance of the records that are withheld by Trade Contractor. Failure to produce job cost data tied to job cost categories and budgets shall be presumed an intentional failure to produce key audit records. Similarly, failure to produce Daily Reports (prepared at or near the time of the Work actually took place (See Article 3.16) shall be presumed an intentional failure to produce key audited records.

If Trade Contractor is seeking costs for inefficiency, home office overhead, or unanticipated increased costs due to delays or acceleration, Trade Contractor shall also produce copies of the original bid tabulation utilized in submitting Trade Contractor's bid for the Project. This document

shall be considered confidential and shall not be subject to disclosure through a Public Records Act and shall not be distributed to anyone other than the District and the District's counsel. This bid tabulation shall only be used in litigation, arbitration, evaluation of Claims or Disputes, Audit, and trial. If the records for the bid tabulation are kept on a computer, the Trade Contractor shall also produce all metadata (in native format) that accompanies the bid tabulation for inspection to prove the authenticity of the underlying bid tabulation. Failure to produce the bid tabulation for review of inefficiency, home office overhead, or unanticipated increased costs due to delays or accelerations shall be considered material evidence that the bid tabulation was not favorable to the Trade Contractor. This evidence shall be entered as a jury instruction for trial that the bid tabulation was not produced and the bid tabulation information was unfavorable to the Trade Contractor. The evidence may also be used in debarment proceedings, and noted as an exception to the Audit findings.

Upon notification of Trade Contractor concerning the results of the audit and a reasonable time has passed for Trade Contractor to respond to the Audit findings and if either there is no Dispute of the Audit findings under Article 4.6 or if the result after utilizing the Disputes Clause confirms the Audit findings, the District may seek reimbursement for overstated Claims, Change Orders, or Appeal of Claims and may also undertake debarment proceedings under Article 15 of these General Conditions.

13.12 STORM WATER POLLUTION PREVENTION

13.12.1 Application

This Section addresses the preparation, implementation and monitoring of a Storm Water Pollution Prevention Plan (SWPPP) for the purpose of preventing the discharge of pollutants from the construction site. This includes the elimination of pollution discharges such as improper dumping, spills or leakage from storage tanks or transfer areas. The District will not issue a Notice to Proceed until Trade Contractor has prepared by a qualified individual and obtained approval of the Permit Registration Documents ("PRDs") that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents from all applicable Local Governing Agencies including the Regional Water Quality Control Board. The Trade Contractor shall also secure a certification that the Project has met all of the conditions of the General Construction Activity Storm Water Permit (GCASP) and comply with all applicable local, state and federal regulations governing storm water pollution prevention.

13.12.2 References and Materials

- California Stormwater Quality Association New Development and Redevelopment Best Management Practice Handbook
- 2009 California Stormwater Quality Association Construction BMP Handbook.
- State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. Available on-line at:
 - http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.
- Use materials of a class, grade and type needed to meet the performance described in the BMP Handbook.

13.12.3 Preparation and Approval

The Trade Contractor shall prepare by a qualified individual the PRDs that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents. The Trade Contractor's Qualified SWPPP Developer ("QSD") shall prepare the Storm Water Pollution Prevention Plan (SWPPP) as required to comply with storm water pollution regulations for project sites with storm water discharges associated with construction activity such as clearing or demolition, grading, excavation and other land disturbances. The SWPPP shall apply to all areas that are directly related to construction activity, including but not limited to staging areas, storage yards, material borrow areas, and access roads.

13.12.3.1 The Trade Contractor shall prepare and submit to the Local Governing Agencies and the District the SWPPP for review and approval if the project sites, new or existing, with land disturbance of 1 or more acres (or less than 1 acres if part of a common plan of development); the construction activity that results in land surface disturbances of less than one acre is part of a larger common plan of development or sale of one or more acres of disturbed land surface; or the construction activity associated with Linear Underground/Overhead Projects ("LUPs") including, but not limited to, those activities necessary for the installation of underground and overhead linear facilities (e.g., conduits, substructures, pipelines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities) and include, but are not limited to, underground utility mark-out, potholing, concrete and asphalt cutting and removal, trenching, excavation, boring and drilling, access road and pole/tower pad and cable/wire pull station, substation construction, substructure installation, construction of tower footings and/or foundations, pole and tower installations, pipeline installations, welding, concrete and/or pavement repair or replacement, and stockpile/borrow locations.

13.12.3.2 The Trade Contractor shall also pay annual renewal fee(s) until the contract is completed and make all such checks payable to the State Water Resources Control Board. The Notice of Intent must be submitted at least two weeks prior to the commencement of construction activities.

13.12.3.3 The Trade Contractor shall prepare the SWPPP by following the format in Sections 2, 3, 4 and Appendices A through F of the California Stormwater BMP Handbook - Construction, January 2009 edition, published by the California Stormwater Quality Association. The publication is available from:

California Stormwater

Quality Association

P.O. Box 2105

Menlo Park, CA 94026-2105

Phone: (650) 366-1042

E-mail: info@casqa.org

or

<https://www.casqa.org/store/products/tabid/154/p-167-construction-handbookportal-initial-subscription.aspx>

13.12.3.4 Where land disturbance is less than 1 acre, any BMPs indicated in the BMP Handbook needed to prevent or minimize storm water pollution shall be implemented at no extra cost to the District.

13.12.3.5 Within two weeks after Award of Contract by the District, the Trade Contractor shall submit to the District's Civil Engineer one copy of the PRDs including the SWPPP for review. After the District's approval, the Trade Contractor shall provide approved copies of the SWPPP as follows: one copy each to the Project Inspector, Construction Manager, Architect, Commissioned Architect and District's Civil Engineer.

13.12.4 Implementation

The Trade Contractor shall implement the Storm Water Pollution Prevention Plan by doing the following:

- ee. Obtain a Waste Discharger Identification (WDID) number from the SWRCB before beginning construction. This number will be issued once your PRDs are administratively accepted and fee is received.
- ff. Keep the SWPPP, REAPs, monitoring data on the construction site.
- gg. Employ a Qualified SWPPP Practitioner (QSP) to implement the SWPPP during construction and develop Rain Event Action Plans ("REAPs").
- hh. Install, inspect, maintain and monitor BMPs required by the General Permit.
- ii. Install perimeter controls prior to starting other construction work at the site.
- jj. Contain on-site storm water at the jobsite. Do not drain on-site water directly into the storm drain.
- kk. Implement the SWPPP.
- ll. Provide SWPPP and BMP implementation training for those responsible for implementing the SWPPP.
- mm. Designate trained personnel for the proper implementation of the SWPPP.
- nn. Conduct monitoring, as required, and assess compliance with the Numeric Action Levels (NALs) or Numeric Effluent Limitations (NELs) appropriate to your project.
- oo. Report monitoring data:
 - 1. Maintain a paper or electronic copy of all required records for three years from the date generated or date submitted, whichever is last. These records must be available at the construction site until construction is completed.

2. Have a QSD revise the SWPPP as needed to reflect the phases of construction and to suit changing site conditions and instances when properly installed systems are ineffective.
3. Assist the District with entering any necessary data or information into the Stormwater Multi-Application and Reporting System (“SMARTS”) system.

pp. At the end of Construction Contract.

1. Submit Notice of Termination (NOT) into the SMARTS when construction is complete and conditions of termination listed in the NOT have been satisfied. A copy of the NOT can be found at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.
2. Leave in place storm water pollution prevention controls needed for post-construction storm water management and remove those that are not needed as determined by the District. Thereafter, left-in-place controls will be maintained by the District.
3. Provide Site Monitoring Reports, SWPPP revisions, Compliance Certifications and related documents to the District. Post-construction storm water operation and management plan as mentioned in the compliance certifications are considered to be in place at the end of the Construction Contract.

13.12.5 Monitoring

The Trade Contractor shall conduct examination of storm water pollution prevention controls as required by the State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. This includes properly qualified personnel performing all required monitoring, testing, inspections and monitoring. The Trade Contractor shall also conduct examination of storm water pollution prevention controls, as well as before and after each storm event in compliance with the State Water Resources Control Board Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System General Permit No. CAS000002, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities (General Permit) (SWRCB, 2009).and at least once each 24-hour period during extended storm events to identify BMP effectiveness and implement repairs or BMP changes as soon as feasible. All maintenance related to a storm event should be completed within 48 hours of the storm event. The Contactor shall also prepare and maintain, at the jobsite, a log of each inspection using Site Monitoring Report forms.

13.12.6 Liabilities and Penalties

- qq. Review of the SWPPP and inspection logs by the District shall not relieve the Trade Contractor from liabilities arising from non-compliance with storm water pollution regulations.

- rr. Payment of penalties for non-compliance by the Trade Contractor shall be the sole responsibility of the Trade Contractor and will not be reimbursed by the District.
- ss. Compliance with the Clean Water Act pertaining to construction activity is the sole responsibility of the Trade Contractor. For any fine(s) levied against the District due to non-compliance by the Trade Contractor, the District will deduct from the final payment due the Trade Contractor the total amount of the fine(s) levied on the District, plus legal and associated costs.
- tt. The Trade Contractor shall submit to the District a completed NOI for change of information (Construction Site Information and Material Handling/Management Practices).

ARTICLE 14
TERMINATION OR SUSPENSION OF THE CONTRACT

14.1 TERMINATION BY THE DISTRICT FOR CAUSE

14.1.1 Grounds for Termination

The District may terminate the Trade Contractor and/or this Contract for the following reasons:

- uu. Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- vv. Persistently or repeatedly is absent, without excuse, from the job site;
- ww. Fails to make payment to Trade Contractor's Subcontractors, suppliers, materialmen, etc.;
- xx. Persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction;
- yy. Fails to provide a schedule or fails or refuses to update schedules required under the Contract;
- zz. Falls behind on the Project and refuses or fails to undertake a recovery schedule;
- aaa. If the Trade Contractor has been debarred from performing Work
- bbb. Becomes bankrupt or insolvent, including the filing of a general assignment for the benefit of creditors; or
- ccc. Otherwise is in substantial breach of a provision of the Contract Documents.

14.1.2 Notification of Termination

When any of the above reasons exist, the District may, without prejudice to any other rights or remedies of the District and after giving the Trade Contractor and the Trade Contractor's Surety written notice of seven (7) days, terminate the Trade Contractor and/or this Contract and may, subject to any prior rights of the Surety:

- ddd. Take possession of the Project and of all material, equipment, tools, and construction equipment and machinery thereon owned by the Trade Contractor;
- eee. Accept assignment of Subcontracts. Trade Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Trade Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept;
- fff. Complete the Work by any reasonable method the District may deem expedient, including contracting with a replacement contractor or contractors; and,

ggg. Agree to accept a takeover and completion arrangement with Surety that is acceptable to the District Board.

14.1.3 Takeover and Completion of Work after Termination for Cause

A Termination for Cause is an urgent matter which requires immediate radiation since Project Work is open and incomplete, the site is subject to vandalism and theft, the Project site is considered a public nuisance, and there is a possibility of injury and deterioration of the Project Work and materials. Thus, the District shall be entitled to enter a takeover contract to either remediate the unfinished condition or complete the Work for this Project.

14.1.4 Payments Withheld

If the District terminates the Contract for one of the reasons stated in Article 14.1.1, the Trade Contractor shall not be entitled to receive further payment until the Work is complete. All costs associated with the termination and completion of the Project shall be the responsibility of the Trade Contractor and/or its Surety.

14.1.5 Payments upon Completion

If the unpaid balance of the Contract Sum exceeds costs of completing the Work, including compensation for professional services and expenses made necessary thereby, such excess shall be paid to the Trade Contractor. If such costs exceed the unpaid balance, the Trade Contractor and its Surety shall pay the difference to the District. The amount to be paid to the Trade Contractor, or District, as the case may be, shall be certified by the Architect upon application. This payment obligation shall survive completion of the Contract.

14.2 TERMINATION OF CONTRACT BY DISTRICT (TRADE CONTRACTOR NOT AT FAULT)

14.2.1 Termination for Convenience

District may terminate the Contract upon fifteen (15) calendar days of written notice to the Trade Contractor and use any reasonable method the District deems expedient to complete the Project, including contracting with replacement contractor or contractors, if it is found that reasons beyond the control of either the District or Trade Contractor make it impossible or against the District's interest to complete the Project. In such a case, the Trade Contractor shall have no Claims against the District except for: (1) the actual cost for approved labor, materials, and services performed in accordance with the Contract Documents which have not otherwise been previously paid for and which are supported and documented through timesheets, invoices, receipts, or otherwise; and (2) profit and overhead of ten percent (10%) of the approved costs in item (1); and (3) termination cost of five percent (5%) of the approved costs in item (1). Trade Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Trade Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept.

14.2.2 Non-Appropriation of Funds/ Insufficient Funds

In the event that sufficient funds are not appropriated to complete the Project or the District determines that sufficient funds are not available to complete the Project, District may terminate or suspend the completion of the Project at any time by giving written notice to the Trade Contractor. In

the event that the District exercises this option, the District shall pay for any and all work and materials completed or delivered onto the site for which value is received, and the value of any and all work then in progress and orders actually placed which cannot be canceled up to the date of notice of termination. The value of work and materials not otherwise already paid for by the District up to the time of termination under this Paragraph shall include a factor of fifteen percent (15%) for the Trade Contractor's overhead and profit and there shall be no other costs or expenses paid to Trade Contractor. All work, materials and orders paid for pursuant to this provision shall become the property of the District. District may, without cause, order Trade Contractor in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as District may determine. Adjustment shall be made for increases in the cost of performance of the Agreement caused by suspense, delay or interruption.

14.3 REMEDIES OTHER THAN TERMINATION

If a default occurs, the District may, without prejudice to any other right or remedy, including, without limitation, its right to terminate the Contract pursuant to Article 14.1, do any of the following:

- hhh. Permit the Trade Contractor to continue under this Contract, but make good such deficiencies or complete the Contract by whatever method the District may deem expedient, and the cost and expense thereof shall be deducted from the Contract Price or paid by the Trade Contractor to the District on demand;
- iii. If the workmanship performed by the Trade Contractor is faulty or defective materials are provided, erected or installed, then the District may order the Trade Contractor to remove the faulty workmanship or defective materials and to replace the same with work or materials that conform to the Contract Documents, in which event the Trade Contractor, at its sole costs and expense, shall proceed in accordance with the District's order and complete the same within the time period given by the District in its notice to the Trade Contractor; or
- jjj. Initiate procedures to declare the Trade Contractor a non-responsible bidder for a period of two (2) to five (5) years thereafter.

All amounts expended by the District in connection with the exercise of its rights hereunder shall accrue interest from the date expended until paid to the District at the maximum legal rate. The District may retain or withhold any such amounts from the Contract Price. If the Trade Contractor is ordered to replace any faulty workmanship or defective materials pursuant to Paragraph (b) above, the Trade Contractor shall replace the same with new work or materials approved by the Architect and the District, and, at its own cost, shall repair or replace, in a manner and to the extent the Architect and the District shall direct, all Work or material that is damaged, injured or destroyed by the removal of said faulty workmanship or defective material, or by the replacement of the same with acceptable work or materials. In no event shall anything in this Paragraph be deemed to constitute a waiver by the District of any other rights or remedies that it may have at law or in equity, it being acknowledged and agreed by the Trade Contractor that the remedies set forth in this Paragraph are in addition to, and not in lieu of, any other rights or remedies that the District may have at law or in equity.

GENERAL CONDITIONS

ARTICLE 15 DEBARMENT

15.1 DEBARMENT MEANS THERE HAS BEEN A FINDING THAT THE TRADE CONTRACTOR IS NOT RESPONSIBLE.

During the course of the Project, or if it is determined through Change Orders, Claims, or Audit that a Trade Contractor is not responsible, the District may, in addition to other remedies provided in the Contract, debar the Trade Contractor from bidding or proposing on, or being awarded, and/or performing work on District contracts for a specified period of time, which generally will not exceed five (5) years, but may exceed five (5) years or be permanent if the circumstances warrant such debarment. In addition to the debarment proceeding, a finding that a Trade Contractor is to be debarred shall result in the termination of any or all existing Contracts the Trade Contractor may have with the District.

15.2 BOARD FINDING

The District may debar a Trade Contractor if the Board, or the Board's delegatee, in its discretion, finds the Trade Contractor has done any of the following:

15.2.1 Intentionally or with reckless disregard, violated any term of the Contract with the District

15.2.2 Committed an acts or omission which reflects on the Trade Contractor's quality, fitness or capacity to perform Work for the District;

15.2.3 Committed an act or offense which indicates a lack of business integrity or business honesty; or,

15.2.4 Made or submitted a false claim against the District or any other public entity.

15.3 HEARING & PRESENTATION OF EVIDENCE

If there is evidence that the Trade Contractor may be subject to debarment, the District shall notify the Trade Contractor in writing of the evidence which is the basis for the proposed debarment and shall advise the Trade Contractor of the scheduled date for a debarment hearing before the District Board or its designee.

The District Board, or designee, shall conduct a hearing where evidence on the proposed debarment is presented. The Trade Contractor or the Trade Contractor's representative shall be given an opportunity to submit evidence at the hearing. The Trade Contractor shall be provided an adequate amount of time to prepare and object to evidence presented. A tentative proposed decision shall be issued as a tentative decision and the District shall be entitled to modify, deny or adopt the proposed decision. The proposed decision shall contain a recommendation regarding whether the Trade Contractor should be debarred, and, if so, the appropriate length of time of the debarment. The Trade Contractor and the District shall be provided an opportunity to object to the tentative proposed decision for a period of 15 days. If additional evidence is presented, the District shall evaluate this evidence and either issue an amended ruling, issue the same ruling, or call a further hearing.

If a Trade Contractor has been debarred for a period of longer than five (5) years, that Trade Contractor may after the debarment has been in effect for at least five (5) years, submit a written request

GENERAL CONDITIONS

for review of the debarment determination to reduce the period of debarment or terminate the debarment. The District may, in its discretion, reduce the period of debarment or terminate the debarment if it finds that the Trade Contractor has adequately demonstrated one or more of the following: (1) elimination of the grounds for which the debarment was imposed; (2) a bona fide change in ownership or management; (3) material evidence discovered after debarment was imposed; or (4) any other reason that is in the best interests of the District.

The District will consider a request for review of a debarment determination only where: (1) the Trade Contractor has been debarred for a period longer than five (5) years; (2) the debarment has been in effect for at least five (5) years; and (3) the request is in writing, states one or more of the grounds for reduction of the debarment period or termination of the debarment, and includes supporting documentation. Upon receiving an appropriate request, the District will provide notice of the hearing on the request. At the hearing, the District shall review evidence on the proposed reduction of debarment period. This hearing shall be conducted and the request for review decided by the District pursuant to the same procedures as for a debarment hearing.

The District's proposed decision shall contain a recommendation on the request to reduce the period of debarment or terminate the debarment.

The terms shall also apply to Subcontractors of Trade Contractors.

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
1	LMCCI has implemented Trimble Project Sight as the mandatory project documentation and processing program. Each awarded Category Contractor will be required to sign up for the free account in order to use the program to view documents through links forwarded by LMCCI, input Dailies, RFI's, etc. The program is free of charge and required for use on this project. Upon award of the contract an email will be sent to appropriate company contacts with a link to follow to join and create your account.	yes
2	Category Contractor shall not interfere with the normal, regular, or existing school hours and or school activities.	yes
3	This Category Contractor shall have full crews at each of the two (2) sites performing work during the called out 6 day work week. A single foreman for each site shall be assigned. This shall all be a part of this Category Contractors base bid.	yes
4	This Category Contractor shall assume all painted areas within the entire work scope for the two (2) sites contain lead and shall be treated as such. It is this Category Contractors responsibility to fully review and adhere to the Asbestos / Lead reports provided.	yes
5	Provide all project submittals no later than ten (10) calendar days after receipt of Notice of Award regardless of what any other particular specification may otherwise indicate. Category Contractor will need to provide at minimum (1) electronic PDF copy of each submittal submitted	yes
6	This Category Contractor shall provide and install a 6' high temporary fence on stands with green wind screen around the areas receiving site work prior to the start of construction. Continuously maintain temporary fencing for the duration of the project along with removal of fencing as directed by the Construction Manager. All costs associated with the installation, maintenance, monthly rental and removals (whether it be partial removals or entire removals) shall be included within your base bid.	yes
7	Properly protect existing improvements scheduled to remain when performing work within this category. This Category Contractor shall be responsible for any damages during construction shall be repaired at no additional cost to the district.	yes
8	Properly protect existing improvements scheduled to remain when performing work within this Category.	yes
9	All daily reports shall be turned into the Construction Manager on a daily basis.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
10	All deliveries, materials or equipment being moved between the construction area, shall be coordinated and approved by the Construction Manager prior to commencement.	yes
11	This Category Contractor shall include all site visits as requested by the Construction Manager with the purpose of coordinating.	yes
12	Utilize suitable equipment for traversing the site, hauling or relocating of materials, and/or erection of items within this Category regardless of soils conditions or grades at no additional cost or delay to the schedule.	yes
13	Category Contractors within this category shall pay and maintain cell phone numbers for their project foreman throughout the duration of this project.	yes
14	Provide all job verification and field measuring as needed and/or required to ensure that the work is coordinated and properly installed.	yes
15	Repair any and all finishes damaged as a result of the execution of the work in this Contractor Category.	yes
16	Provide daily site clean up to insure a clean, safe & accessible work environment.	yes
17	This Category Contractor shall provide a minimum of two (2) 55 gallon trash cans with liners to properly dispose of waste, trash, lunch trash and debris. Also within this Category Contractors base bid, provide (2) 40 yds trash containers. This shall also include procurement of all hauling, hauling permits and/or dump fees which may be required daily for the two (2) sites.	yes
18	This Category Contractor shall provide protection/prevention of wind damage to incomplete work or on-site stored materials.	yes
19	The protection against and prevention of heat damage to incomplete work or on-site stored materials is the responsibility of this Category Contractor	yes
20	Work scheduled shall consist of a (6) day (48) hour work week during the Summer 2023 and District holiday weekends. Construction work hours shall be between the hours of 7:00 AM and 4:00 PM (no access will be allowed on site before or after work hours) and shall constitute as a work day at the applicable prevailing wage rate(s). All weekends, holidays or irregular hours worked must be supervised by the Construction Manager and be in compliance with local ordinances. This Category Contractor shall be responsible for any costs incurred for District's supervision, repairs, tests and inspections (if required) if This Category Contractor's actions cause damages requiring District's remediation. The District nor the Construction Manager will be held responsible for these violations.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
21	This Category Contractor shall be responsible for cleaning, surface preparation, masking, one coat of exterior metal grade primer and coats of two exterior metal paint finish at all roof HVAC units and Bard AC units each of the two (2) sites.	yes
22	This Category Contractor shall be responsible for demolition and proper disposal for 1,000'sqft of existing lath and plaster for each of the two (2) sites as directed by the Construction Manager/District. Also within this Category Contractors base bid, shall be all labor, material and equipment necessary to provide 1,000'sqft of new lath/ stucco plaster, plaster accessories for each of the two (2) sites that will make it a complete code compliant system, one coat of primer and two coats of paint finish to match and or as directed by the Construction Manager/ District.	yes
23	This Category Contractor shall be responsible for 500' lineal feet of wood backing as needed for new work at each of the two sites. All material, labor, machinery and accessories needed to make this a complete and acceptable system shall be a part of this Category's base bid.	yes
24	This Category Contractor shall be responsible for any and all milling required to achieve a single, wide solid seamless fascia board at all locations receiving new fascia board.	yes
25	This Category Contractor shall be responsible for demolition / abatement of 500' lnft of additional 2X fascia board as directed by the Construction Manager / District for each of the two (2) sites. This Category Contractor shall also be responsible for procurement and installation of 500' lnft new 2X fascia board as directed by the Construction Manager / District for each of the two (2) sites. All hardware, equipment, materials and machinery necessary shall be this Category Contractors responsibility.	yes
26	This Category Contractor shall be responsible for demolition and legal disposal of existing portable siding (30pcs of 4'x10' T1-11) for each of the two (2) sites. This Category Contractor shall also be responsible for procurement and installation of 30pcs of new T1-11,	yes
27	This Category Contractor shall be responsible for one coat of primer and two coats of finish at all exterior conduits on walls, under eaves and roof tops.	yes
28	This Category Contractor shall be responsible for seamless caulk joints at all adjoining edges prior to primer and paint.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
29	This Category Contractor shall be responsible for one coat of primer and two coats of finish paint at all exterior doors, inside and out, all exterior window frames (apply new window putty as needed to fill voids), hand rails, metal hand rails, metal enclosures and all paintable exterior surfaces. This shall be all a part of this Category Contractor's base bid. .	yes
30	This Category Contractor shall clean and prep existing back pack hooks, followed with application of Urethan clear coating over hooks and back board. This shall be a part of this Category Contractors base bid.	yes
31	This Category Contractor shall be responsible for preparation, one coat of primer and two coats of finish for site concrete benches and concrete tables throughout the two (2) sites. This shall be a part of this Category's base bid.	yes
32	This Category Contractor shall be responsible for demolition and legal disposal for 400' lineal feet of portable lower skirting as directed by the Construction Manager/District. Also within this Category Contractors base bid, shall include all labor, equipment, machinery and material for installation of 400' lineal feet of new wood skirting to match existing, also as directed by the Construction Manager/District. This shall be at the two (2) sites.	yes
33	This Category Contractor shall be responsible for all labor and material to recoat existing portable entry ramps at each of the two (2) sites with an epoxy paint coating. This shall also include all preparation and clean up of said ramps.	yes
34	At no time will any contractor or sub contractor's drive or park on any concrete flatwork without the consent of the Construction Manager. It will be the contractor's responsibility to keep his employees, subcontractors, suppliers and company vehicles off said concrete. Any damages, tire marks or cracking found at anytime after the violation of this rule, will be full responsibility of this Category Contractor.	yes
35	Parking areas shall be designated by the Construction Manager.	yes
36	The Construction Manager will review and approve the placement of all temporary storage containers, trailers and stored materials.	yes
37	It shall be established that any materials delivered "Freight on Board" (FOB) shall be unloaded by the Category Contractor that is receiving these items, any discrepancy in quantities or any damage to any items must be acknowledged at the time of delivery. Any discrepancy in quantity or damage that goes unreported shall be the responsibility of the receiving Category Contractor to replace and/or repair.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
38	Provide all barricades, warning lights and signs & safety measures etc. required for the execution of the work within this Category. Provide all parking lot closures 48 hours in advanced to the Construction Manager.	yes
39	Provide adequate and proper fugitive dust control during all operations within this contract as required be applicable codes and/or ordinances. Comply with the South Coast Air Quality Management District (SCAQMD) for the Santa Fe Springs Western Region area. This includes but is not limited to Machinery, vehicular or foot traffic.	yes
40	All Contractors shall be familiar and comply with the South Coast Air Quality Management District (SCAQMD) standards for the Santa Fe Springs Western Region for the duration of the project.	yes
41	ALL references to "Architect" throughout the Project Manual and or Construction Documents shall be replaced with "Construction Manager".	yes
42	Provide all demo of the existing assemblies indicated to be demolished as per the Construction Documents.	yes
43	Provide and maintain all temporary chemical toilets and temporary had wash stations for the duration of the project. A minimum of 2 toilets and 1 hand wash station for each of the two (2) sites shall be provided and may be adjusted based upon the quantity of manpower present on the jobsite and or as directed by the Construction Manager. Provide twice a week cleaning. Coordinate locations of temp toilets and hand wash stations with the Construction Manager.	yes
44	This Contractor shall verify and keep all existing systems fully operational as they execute the scope of work within this contract.	yes
45	This Category Contactor, when spraying primer or finish shall be responsible for the protection for other Building walls, finishes, finish products and vehicles in the general area. Category Contractor to keep a vigilant eye on wind speed and weather daily before spraying.	yes
46	Provide all Best Management Practices (BMP's) as required to meet all requirements for the Regional Storm Water Pollution Prevention and local governing jurisdiction.	yes
47	This Category Contractor is the project General Contractor and shall be solely responsible for ALL work as required for the complete project as specified within the Drawings, Specifications and Addenda's.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
48	If required, carefully remove and reinstall any chain link, ornamental iron and/or temporary fencing encountered while installing work and/or obtaining access to the work area in this category to the satisfaction of the Construction Manager. Fencing shall be repaired, relocated, and replaced on a daily basis to ensure continual site security and safety.	yes
49	This Category Contractor shall be responsible for 1,000' sqft of existing roofing system demolition as needed and or as directed by the Construction Manager / District. This Category Contractor shall also be responsible for installation of approx. 1,000 sqft of new roofing where work was performed. All labor and equipment to make a full water tight roofing systems as directed by the Construction Manager/District for each of the two (2) sites. Material shall match existing roofing color and quality.	yes
50	This Category Contractor shall be responsible for full pressure washing of all buildings, structures and apparatus that will receiving new paint. All gum, foreign objects and unacceptable surfaces will also be responsibility of this Category Contractor. Playground Equipment although not being painted must also be pressure washed and cleaned. This is applicable for each of the two (2) sites.	yes
51	This Category Contractor shall be responsible for preparation , primer and two coats of finish onto each flag pole at each of the two (2) sites. All labor, materials and equipment shall be this Category Contractors responsibility.	yes
52	This Category Contractor shall be responsible for primer and paint of ALL site canopy walk way undersides, where existing spray texture is currently installed. Removal or disturbance of the existing texture at canopy walk way undersides is not part of the work scope. Any disturbance performed by or under the contractors watch will be full responsibility of this Category Contractor to remedy. This shall be applicable at the two (2) sites shown within the contract documents.	yes
53	This Category Contractor shall be responsible for preparation, primer and two coats of finish onto the interior and exterior sides of ALL bldg. exterior doors. This is applicable for all bldgs. and portables onsite.	yes
54	This Category Contractor shall be responsible for any additional lead or asbestos testing above and beyond the testing that has already been performed and reported by the District. All cost, equipment and materials needed will be this Category Contractors full responsibility. No extension of time will be provided.	yes

LITTLE LAKE CITY SCHOOL DISTRICT - 2023 PAINTING GROUP 1

WORK SCOPE SPECIAL CONDITIONS

CONTRACTOR CATEGORY NUMBER		
ITEM:	DESCRIPTION:	4
55	This Category Contractor shall be responsible to restripe all path of travel concrete markings and exterior door radius concrete markings at each of the two (2) sites. All labor, materials and equipment shall be this Category Contractors responsibility.	yes
56	This Category Contractor shall be responsible to remove, disconnect, reinstall and reconnect any and all exterior wall or ceiling mounted fixtures prior to primer and finish. Removed finishes shall be left in operational condition.	yes

END OF SECTION

Activity ID	Activity Name	Start	Finish	Original Duration	April 2023				May 2023				June 2023				July 2023				August 2023				September 2023				October 2023				Nov 2023
					02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15
2023 Painting Group 1																																	
General Project Information																																	
Material Procurement																																	
MP-00-00	Produce & Approve Submittals	29-May-23*	02-Jun-23	5	Produce & Approve Submittals																												
MP-00-1	Place Orders	05-Jun-23	12-Jun-23	6	Place Orders																												
MP-00-2	Product On Site	12-Jun-23	12-Jun-23	1	Product On Site																												
Studebaker ES																																	
SW-04-00	Mobilization	12-Jun-23*	12-Jun-23	1	Mobilization																												
SW-04-01	Demolition	13-Jun-23	19-Jun-23	6	Demolition																												
SW-04-08	Fascia Replacement	20-Jun-23	26-Jun-23	6	Fascia Replacement																												
SW-04-09	Prepare Surfaces for Painting	27-Jun-23	01-Jul-23	5	Prepare Surfaces for Painting																												
SW-04-11	Primer & 1st Coats	03-Jul-23	17-Jul-23	13	Primer & 1st Coats																												
SW-04-12	Final Coat	18-Jul-23	24-Jul-23	6	Final Coat																												
SW-04-13	Gutter and Downspouts	25-Jul-23	05-Aug-23	11	Gutter and Downspouts																												
SW-04-14	Incomplete Work List/Punch List	07-Aug-23	08-Aug-23	2	Incomplete Work List/Punch List																												
Lake Center MS																																	
LC-04-00	Mobilization	12-Jun-23*	12-Jun-23	1	Mobilization																												
LC-04-01	Demolition	13-Jun-23	19-Jun-23	6	Demolition																												
LC-04-08	Fascia Replacement	20-Jun-23	26-Jun-23	6	Fascia Replacement																												
LC-04-09	Prepare Surfaces for Painting	27-Jun-23	01-Jul-23	5	Prepare Surfaces for Painting																												
LC-04-11	Primer & 1st Coats	03-Jul-23	17-Jul-23	13	Primer & 1st Coats																												
LC-04-12	Final Coat	18-Jul-23	24-Jul-23	6	Final Coat																												
LC-04-13	Gutter and Downspouts	25-Jul-23	05-Aug-23	11	Gutter and Downspouts																												
LC-04-14	Incomplete Work List/Punch List	07-Aug-23	08-Aug-23	2	Incomplete Work List/Punch List																												



- Second Baseline
- Remaining Work
- Actual Work
- Critical Remaining Work
- Milestone
- % Complete

Document 01 31 00 - Schedule			
Date	Revision	Checked	Approved
19-Apr-23	Addendum No. 1		

SECTION 09 91 00
PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 - 1. Exposed surfaces of steel lintels and ledge angles.
 - 2. Mechanical and Electrical:
 - a. On the roof and outdoors, paint equipment that is exposed to weather or to view, including factory-finished materials.
- D. Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Non-metallic roofing and flashing.
 - 6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
 - 7. Floors, unless specifically indicated.
 - 8. Glass.
 - 9. Concrete masonry units in utility, mechanical, and electrical spaces.
 - 10. Concealed pipes, ducts, and conduits.

1.02 DEFINITIONS

- A. Comply with ASTM D16 for interpretation of terms used in this section.

1.03 REFERENCE STANDARDS

- A. AHRI 340/360 - Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500 MM (12- to 60-in.) Diameter; 2013.
- B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2016.

- C. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board; 2007.
- D. SCAQMD 1113 - Architectural Coatings; 1977 (Amended 2016).
- E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).
- F. SSPC-SP 2 - Hand Tool Cleaning; 2018.
- G. SSPC-SP 6 - Commercial Blast Cleaning; 2007.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
 - 4. Manufacturer's installation instructions.
 - 5. If proposal of substitutions is allowed under submittal procedures, explanation of substitutions proposed.
- C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
 - 1. Where sheen is specified, submit samples in only that sheen.
 - 2. Where sheen is not specified, discuss sheen options with Construction Manager before preparing samples, to eliminate sheens definitely not required.
- D. Certification: By manufacturer that paints and finishes comply with VOC limits specified.
- E. Manufacturer's Instructions: Indicate special surface preparation procedures.
- F. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
- G. Maintenance Materials: Furnish the following for District's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
 - 2. Extra Paint and Finish Materials: 1 gallon of each color; from the same product run, store where directed.
 - 3. Label each container with color in addition to the manufacturer's label.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years documented experience and approved by manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.07 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F for exterior, unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide paints and finishes from the same manufacturer to the greatest extent possible.
 - 1. In the event that a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by the Construction Manager is obtained using the specified procedures for substitutions.
 - 2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
- B. Paints:
 - 1. Dunn-Edwards Corporation: www.dunnedwards.com,
 - a. Local representative N/A
 - 2. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
 - a. Local representative Ernesto Hernandez (424) 295-2090
- C. Primer Sealers: Same manufacturer as top coats.
- D. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
 3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
 4. Supply each paint material in quantity required to complete entire project's work from a single production run.
 5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B. Volatile Organic Compound (VOC) Content: Comply with Section 01 61 16.
- C. Volatile Organic Compound (VOC) Content:
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
 - a. AHRI 340/360--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - b. SCAQMD 1113 Rule.
 - c. CARB (SCM).
 - d. Architectural coatings VOC limits of California.
 2. Determination of VOC Content: Testing and calculation in accordance with AHRI 340/360 (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
- D. Flammability: Comply with applicable code for surface burning characteristics.
- E. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by the Construction Manager from the manufacturer's full line.
- F. Colors: As indicated on drawings.
1. Extend colors to surface edges; colors may change at any edge as directed by the Construction Manager.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Exterior Plaster and Stucco: 12 percent.
 2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing paints or finishes that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Masonry:
 - 1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
 - 2. Prepare surface as recommended by top coat manufacturer.
 - 3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi at 6 to 12 inches. Allow to dry.
- H. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- I. Galvanized Surfaces:
 - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
 - 2. Prepare surface according to SSPC-SP 2.
- J. Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.
 - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
 - 3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.

3.03 APPLICATION

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's written instructions.
- C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance.

- F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.
- G. Sand metal surfaces lightly between coats to achieve required finish.
- H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection.

3.05 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION



SHERWIN-WILLIAMS®

Product Submittal

Little Lake School District - Repaint Projects

**LITTLE LAKE CITY
SCHOOL DIST.**

Presented By:

Ernesto Hernandez

Senior Commercial Sales Representative

(424) 295-2090

ernie.m.hernandez@sherwin.com

SHERWIN-WILLIAMS
11211 WASHINGTON BLVD
WHITTIER, CA 90606 3111
(562) 695-7500

April 19, 2023



SHERWIN-WILLIAMS®

Product Submittal

Project: Little Lake School District - Repaint Projects
Customer: LITTLE LAKE CITY SCHOOL DIST.
10515 PIONEER BLVD, SANTA FE SPGS, CA, 906703703
Owner: Little Lake City School District
10515 Pioneer Boulevard, Santa Fe Sprigs, CA, 90670

Thank you for considering Sherwin-Williams products for the Little Lake School District - Repaint Projects projects.

Included in this package is the Sherwin-Williams product submittal for the above referenced project.

Please contact me with any questions.

Thank you.

Ernesto Hernandez

Senior Commercial Sales Representative

(424) 295-2090

ernie.m.hernandez@sherwin.com

SHERWIN-WILLIAMS

11211 WASHINGTON BLVD, WHITTIER, CA 90606 3111



Exterior Finishes

Brick - Flat

Prime Bare Surfaces: LX02W0050 - Loxon Concrete and Masonry Primer

Topcoat: A06W00151 - A-100® Exterior Latex Flat

Brick - Semi Gloss

Prime Bare Surfaces: LX02W0050 - Loxon Concrete and Masonry Primer

Topcoat: A08W00151 - A-100® Exterior Latex Gloss

Notes: Product is a true semi gloss

Wood Fascia - Flat

Prime Bare Surfaces: B51W00620 - PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer White

Topcoat: A06W00151 - A-100® Exterior Latex Flat

Wood Fascia - Semi Gloss

Prime Bare Surfaces: B51W00620 - PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer White

Topcoat: A08W00151 - A-100® Exterior Latex Gloss

Notes: Product is a true semi gloss

Metal Doors and Door Frames - Semi Gloss

Prime Bare Metal: B66W01310 - Pro Industrial Pro Cryl Universal Metal Primer

Topcoat: B53W02151 - Pro Industrial Water Based Alkyd Urethane - Semi Gloss



SHERWIN-WILLIAMS.

Basic Surface Preparation

Coating performance is directly affected by surface preparation. Coating integrity and service life will be reduced because of improperly prepared surfaces. As high as 80% of all coating failures can be directly attributed to inadequate surface preparation that affects coating adhesion. Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced because of improperly prepared surfaces. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.

The majority of paintable surfaces are concrete, ferrous metal, galvanizing, wood and aluminum. They all require protection to keep them from deteriorating in aggressive environments. Selection of the proper method for surface preparation depends on the substrate, the environment, the coating selected, and the expected service life of the coating system. Economics, surface contamination, and the effect on the substrate will also influence the selection of surface preparation methods. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Verify the existence of lead based paints on the project. Buildings constructed after 1978 are less likely to contain lead based paints. If lead based paints are suspected on the project, all removal must be done in accordance with the EPA Renovation, Repair and Painting and all applicable state and local regulations. State and local regulations may be more strict than those set under the federal regulations. Verify that Owner has completed a Hazardous Material Assessment Report for the project prior to issuing of Drawings. Concluding that no lead based paints were found on project site, delete paragraph regarding lead based paints.

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority. Removal must be done in accordance with EPA Renovation, Repair and Painting Rule and all related state and local regulations. Care should be taken to follow all state and local regulations which may be more strict than those set under the federal RRP Rule.

No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless the products to be used are designed to be used in those environments.

Aluminum – S-W 1: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.

Block (Cinder and Concrete) – S-W 3: Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement, and hardeners. Concrete and mortar must be cured at least 28 days at 75°F. The pH of the surface should be between 6 and 9. On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary to prepare the surface. Fill bug holes, air pockets, and other voids with a cement patching compound (per ASTM D4261).

Brick – S-W 4: Must be free of dirt, loose and excess mortar, and foreign material. All brick should be allowed to weather for at least one year followed by wire brushing to remove efflorescence. Treat the bare brick with one coat of Loxon Conditioner.

Concrete and Masonry – Concrete, Poured – Exterior or Interior – S-W 5: The preparation of new concrete surfaces is as important as the surface preparation of steel. The following precautions will help assure maximum performance of the coating system and satisfactory coating adhesion:

1. Cure – Concrete must be cured prior to coating. Cured is generally defined as concrete poured and aged at a material temperature of at least 75°F for at least 28 days unless specified products are designed for earlier application.

2. Moisture – Reference ASTM F1869-98 Moisture Test by use of Calcium Chloride or ASTM D4263 Plastic Sheet Method. Concrete must be free from moisture as much as possible (it seldom falls below 15%). Vapor pressures, temperature, humidity, differentials, and hydrostatic pressures can cause coatings to prematurely fail. The source of moisture, if present, must be located, and the cause corrected prior to coating.

3. Temperature – Air, surface and material temperatures must be in keeping with requirements for the selected product during and after coating application, until coating is cured.

4. Contamination – Remove all grease, dirt, paint, oil, laitance, efflorescence, loose mortar, and cement by the recommendations listed in the surface preparation section.

5. Surface Condition – Hollow areas, bug holes, voids, honeycombs, fin form marks, and all protrusions or rough edges are to be ground or stoned to provide a continuous surface of suitable texture for proper adhesion of the coating. Imperfections may require filling, as specified, with a recommended Sherwin-Williams product.

6. Concrete Treatment – Hardeners, sealers, form release agents, curing compounds, and other concrete treatments should be removed to ensure adequate coating adhesion and performance.

Methods of Surface Preparation on Concrete per SSPC-SP13/NACE 6 or ICRI 03732 Surface Cleaning Methods: Vacuum cleaning, air blast cleaning, and water cleaning per ASTM D4258.

Used to remove dirt, loose material, and/or dust from concrete.

Detergent water cleaning and steam cleaning per ASTM D4258.

Used to remove oils and grease from concrete. Prior to abrasive cleaning, and after abrasive cleaning, surfaces should be cleaned by one of the methods described above.

Mechanical Surface Preparation Methods:

Dry abrasive blasting, wet abrasive blasting, vacuum assisted abrasive blasting, and centrifugal shot abrasive blasting per ASTM D4259. Used to remove contaminants, laitance, and weak concrete, to expose subsurface voids, and to produce a sound concrete surface with adequate profile and surface porosity.

High-pressure water cleaning or water jetting per SSPC-SP12-NACE5.

Used to remove contaminants, laitance, and weak concrete, to expose subsurface voids, and to produce a sound concrete surface with adequate profile and surface porosity.

Impact tool methods per ASTM D4259.

Used to remove existing coatings, laitance, and weak concrete. Methods include scarifying, planing, scabbling, and rotary peening. Impact tools may fracture concrete surfaces or cause microcracking requiring surface repair.

Power tool methods per ASTM D4259.

Used to remove existing coatings, laitance, weak concrete, and protrusions in concrete. Methods include circular grinding, sanding, and wire brushing. These methods may not produce the required surface profile to ensure adequate adhesion of subsequent coatings.

Chemical Surface Preparation Methods:

Acid etching per ASTM D4260. Use to remove some surface contaminants, laitance, and weak concrete, and to provide a surface profile on horizontal concrete surfaces. This method requires complete removal of all reaction products and pH testing to ensure neutralization of the acid. Not recommended for vertical surfaces. Etching with hydrochloric acid shall not be used where corrosion of metal in the concrete is likely to occur. Adequate ventilation and safety equipment required.

1. Clean surface per ASTM D4268
2. Wet surface with clean water
3. Etch with 10-15% muriatic acid solution at the rate of 1 gallon per 75 square feet
4. Scrub with stiff brush
5. Allow sufficient time for scrubbing and until bubbling stops
6. If no bubbling occurs, surface is contaminated. Refer to ASTM D4258 or ASTM D4259
7. Rinse surface two or three times. Remove acid/water each time.
8. Surface should have a texture similar to medium grit sandpaper.
9. Neutralize surface with a 3% solution of tri-sodium phosphate and flush with clean water.
10. Allow to dry and check for excess moisture.

Cement Composition Siding/Panels – S-W 6: Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, many times the pH may be 10 or higher.

Composition Board (Hardboard) – S-W 9: Some composition boards may exude a waxy material that must be removed with a solvent prior to coating. Whether factory primed or unprimed, exterior composition board siding (hardboard) must be cleaned thoroughly and primed with an alkyl primer.

Copper – S-W 7: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP2, Hand Tool Cleaning.

Drywall—Interior and Exterior – S-W 8: Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds.

Galvanized Metal – S-W 10: Allow to weather a minimum of 6 months prior to coating. Clean per SSPC-SP1 using detergent and water or a degreasing cleaner, then prime as required. When weathering is not possible or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP16 is necessary to remove these treatments.

Plaster – S-W 11: Must be allowed to dry thoroughly for at least 30 days before painting. Room must be ventilated while drying; in cold, damp weather, rooms must be heated. Damaged areas must be repaired with an appropriate patching material. Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

Steel/Ferrous Metal Substrates

SSPC-SP1- Solvent Cleaning: Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation. Follow manufacturer's safety recommendations when using solvents. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.1. (Refer to each products cleaning instructions. Many acrylic coatings will state; When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. **Do not use hydrocarbon solvents for cleaning.**)

SSPC-SP2 - Hand Tool Cleaning: Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mil scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.2.

SSPC-SP3 - Power Tool Cleaning: Power Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mil scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.3.

SSPC-SP5 / NACE 1 - White Metal Blast Cleaning: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP5/ NACE No.1.

SSPC-SP6 / NACE 3 - Commercial Blast Cleaning: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 33 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE No.3.

SSPC-SP7 / NACE 4 - Brush-Off Blast Cleaning: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Mil scale, rust, and coating are considered adherent if they cannot be removed by lifting with a dull putty knife. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP7/NACE No.4.

SSPC-SP10 / NACE 2 - Near-White Blast Cleaning: A Near White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPCSP10/ NACE No.2.

SSPC-SP11 - Power Tool Cleaning to Bare Metal: Metallic surfaces that are prepared according to this specification, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxide corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portions of pits if the original surface is pitted. Prior to power tool surface preparation, remove visible deposits of oil or grease by any of the methods specified in SSPC-SP 1, Solvent Cleaning, or other agreed upon methods. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.11.

SSPC-SP12 / NACE 5 - Surface Preparation and Cleaning of Metals by Waterjetting Prior to Recoating: High- and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials This standard provides requirements for the use of high- and ultra-high pressure water jetting to achieve various degrees of surface cleanliness. This standard is limited in scope to the use of water only, without the addition of solid particles in the stream. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP12/NACE No.5.

SSPC-SP13 / NACE 6 or ICRI 03732 - Surface Preparation of Concrete: This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and walls, precast slabs, masonry walls and shotcrete surfaces. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a dry, sound, uniform substrate suitable for the application of protective coating or lining systems. Depending upon the desired finish and system, a block filler may be required. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP13/NACE No.6 or ICRI 03732

SSPC-SP14 / NACE 8 – Industrial Blast Cleaning: This standard gives requirements for industrial blast cleaning of unpainted or painted steel surfaces by the use of abrasives. This joint standard allows defined quantities of mill scale and/or old coating to remain on the surface. An industrial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dust, and dirt. Traces of tightly adherent mill scale, rust, and coating residue are permitted to remain on 10% of each unit area of the surface. The traces of mill scale, rust, and coating shall be considered tightly adherent if they cannot be lifted with a dull putty knife. Shadows, streaks, and discolorations caused by stains of rust, stains of mill scale, and stains of previously applied coating may be present on the remainder of the surface.

SSPC-SP16 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals: This standard covers the requirements for brush-off blast cleaning of uncoated or coated metal surfaces other than carbon steel by the use of abrasives. These requirements include visual verification of the end condition of the surface and materials and procedures necessary to achieve and verify the end condition. A brush-off blast cleaned non-ferrous metal surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, metal oxides (corrosion products), and other foreign matter. Intact, tightly adherent coating is permitted to remain. A coating is considered tightly adherent if it cannot be removed by lifting with a dull putty knife.

High- and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials:

SSPC-SP WJ-1/NACE WJ-1: Clean to Bare Substrate (WJ-1) is intended to be similar to the degree of surface cleanliness of SSPC-SP 5/NACE 1, except that stains are permitted to remain on the surface. This standard is used when the objective is to remove every trace of rust and other corrosion products, coating and mill scale.

SSPC-SP WJ-2/NACE WJ-2: Very Thorough Cleaning (WJ-2) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to remove almost all rust and other corrosion products, coating, and mill scale.

SSPC-SP WJ-3/NACE WJ-3: Thorough Cleaning (WJ-3) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to remove much of the rust and other corrosion products, coating, and mill scale, leaving tightly adherent thin films.

SSPC-SP WJ-4/NACE WJ-4: Light Cleaning (WJ-4) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to allow as much of the tightly adherent rust and other corrosion products, coating, and mill scale to remain as possible, Discoloration of the surface may be present.

Water Blasting NACE Standard RP-01-72: Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.

Stucco S-W 22 : Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9.

Wood—Exterior – S-W 23: Must be clean and dry. Prime and paint as soon as possible. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth. Caulk should be applied after priming.

Wood—Interior – S-W 24: All finishing lumber and flooring must be stored in dry, warm rooms to prevent absorption of moisture, shrinkage, and roughening of the wood. All surfaces must be sanded smooth, with the grain, never across it. Surface blemishes must be corrected and the area cleaned of dust before coating.

Vinyl Siding, Architectural Plastics, PVC & Fiberglass: – S-W 24: Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. If VinylSafe® Colors are not used and darker colors lower than an LRV of 56 are, the vinyl may warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

Previously Coated Surfaces – S-W 12: Maintenance painting will frequently not permit or require complete removal of all old coatings prior to repainting. However, all surface contamination such as oil, grease, loose paint, mill scale dirt, foreign matter, rust, mold, mildew, mortar, efflorescence, and sealers must be removed to assure sound bonding to the tightly adhering old paint. Glossy surfaces of old paint films must be clean and dull before repainting. Thorough washing with an abrasive cleanser will clean and dull in one operation, or, wash thoroughly and dull by sanding. Spot prime any bare areas with an appropriate primer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system. Check for compatibility by applying a test patch of the recommended coating system, covering at least 2 to 3 square feet. Allow to dry one week before testing adhesion per ASTM D3359. If the coating system is incompatible, complete removal is required per ASTM D4259.

Touch-Up, Maintenance and Repair

For a protective coating system to provide maximum long-term protection, regularly scheduled maintenance is required. Maintenance includes inspection of painted areas, cleaning of surfaces to remove oils, chemicals, and other contaminants, and touch-up of areas where the coatings have been damaged. Highly corrosive areas, such as those subjected to frequent chemical spillage, corrosive fumes, and/or high abrasion or temperature areas should be inspected frequently – every six months, for example. Areas exposed to less severe conditions, such as interiors and exteriors of potable water tanks, may be inspected annually to assess the condition of the coating system.

The SSPC-VIS 2, Standard Method for Evaluating Degree of Rusting on Painted Steel Surfaces, can be used as a guide to determine appropriate touch-up and repairs maintenance schedules. Touch-up would be suggested when the surface resembles Rust Grade 5-S (Spot Rusting), 6-G (General Rusting), or 6-P (Pinpoint Rusting). Surface preparation would generally consist of SSPC-SP2, SP3, SP11, or SP12. Overcoating a well protected, but aged steel surface showing no evidence of rusting, may be achieved by Low Pressure Water Cleaning per SSPC-SP12/WJ4, and applying an appropriate coating system.

Full removal of the existing coating system by abrasive blasting would be recommended when the surface resembles Rust Grade 3-S (Spot Rusting), 4-G (General Rusting), or 4-P (Pinpoint Rusting). When the coating system has deteriorated to encompass approximately 33% of the surface area, it is always more economical to consider full removal and reapplication of the appropriate protective coating system.

Mildew –Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.



SHERWIN-WILLIAMS®

Reference Pages

Data Pages

Loxon®**Concrete and Masonry Primer-Sealer**

US LX02W0050, Canada LX02WQ050 White

**SHERWIN
WILLIAMS®****CHARACTERISTICS**

Loxon Concrete & Masonry Primer-Sealer is an acrylic coating specifically engineered for interior and exterior, above grade, masonry surfaces requiring a high-performance primer. It is highly alkali and efflorescence resistant and can be applied to a surface with a pH of 6 to 13.

Loxon Concrete and Masonry Primer-Sealer: Seals and adheres to concrete, brick, stucco and plaster.

Conditions porous masonry surfaces.

Use on above grade masonry surfaces for a long-lasting finish.

Apply to masonry and concrete surfaces that are at least 7 days old.

Prevents harm to subsequent coatings by alkalies in the substrate.

For use on these surfaces:

Concrete, Concrete Block, Brick, Stucco, EIFS Fiber Cement Siding, Plaster, Mortar, Exterior Wall Cladding, Tilt-Up/Pre-Cast Concrete

Finish: 0-10 units @ 85°

Color: White

Coverage:

Wet mils: 5.3-8.0

Dry mils: 2.1-3.2

Coverage: 200-320 sq. ft. per gallon

Coverage on porous & rough stucco 80 square feet per gallon.

Coverage (thin-mil primer application to new construction tilt-up/precast concrete):

Wet mils: 2.7-4.0

Dry mils: 1.1-1.6

Coverage: 400-600 sq. ft. per gallon

Drying Schedule 77°F @ 50% RH:

To touch 4 hours

To recoat 24 hours

Air and surface temperatures must not drop below 40°F for 48 hours after application.

Drying and recoat times are temperature, humidity, and film thickness dependent.

Tinting with CCE only:

For best topcoat color development, use the recommended "P"-shade primer. If desired, up to 4 oz. per gallon of ColorCast Ecotones can be used to approximate the topcoat color. Check color before use.

Extra White LX02W0050**V.O.C. (less exempt solvents):**

less than 50 grams per litre; 0.42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 40 ±2%

Weight Solids: 55 ±2%

Weight per Gallon: 10.92 lbs

Flash Point: N.A.

Vehicle Type: Acrylic

Shelf Life: 36 months, unopened

COMPLIANCE

As of 08/15/2022, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Product Lens Certified	Yes
MPI®	Yes

APPLICATION**Temperature:**

minimum 40°F

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: No reduction necessary

Airless Spray:

Pressure 2000-2700 p.s.i.

Tip .19 inch

Brush: nylon-polyester

Roller Cover: ½ to 1½ inch nap synthetic cover

Spray and back roll on porous & rough stucco to achieve required film build and a pin-hole free surface.

For porous block, a coat of Loxon Acrylic Block Surfacer is required to achieve a pinhole free surface.

Apply at temperatures above 40°F. When the air temperature is at 40°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 40°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 4-6 hours.

Do not apply at air or surface temperatures below 40°F or when air or surface temperatures may drop below 40°F within 48 hours.

For best performance results, avoid painting in direct sun or painting substrates with elevated surface temperatures.

Do not reduce.

May be applied to damp but not to wet surfaces.

APPLICATION TIPS

Apply paint at the recommended film thickness and spreading rate as indicated on the page. Application of coating below minimum recommended spreading rate may adversely affect the coating systems performance.

When spot priming on some surfaces, a non-uniform appearance of the final coat may result, due to differences in holdout between primed and unprimed areas. To avoid this, prime the entire surface rather than spot priming.

For optimal performance, this primer-sealer must be topcoated with a latex, alkyd-oil, water-based epoxy, or solvent based epoxy coating on architectural applications.

For exterior use, this primer-sealer must be topcoated within 14 days to prevent degradation due to weathering.

RECOMMENDED SYSTEMS**Concrete, Masonry, Cement:**

1 coat Loxon Concrete & Masonry Primer
2 coats Appropriate Topcoat

Stucco, Fiber Cement Siding, EIFS:

1 coat Loxon Concrete & Masonry Primer
2 coats Appropriate Topcoat

Recommended Architectural Topcoats:

A-100 Exterior Latex
Duration Exterior & Duration Home Interior
Emerald Exterior & Interior
Loxon Masonry Coatings
SuperPaint Exterior & Interior
ProClassic Interior
ProMar Interior

Recommended Industrial Topcoats:

Industrial Enamels
Pro Industrial Series
Steel Master 9500 Silicone Alkyd
Water Based Catalyzed Epoxy

Industrial finishes have been tested for architectural applications only. Loxon Concrete and Masonry Primer has not been tested in environments subject to chemical attack. Any recommendations for use in such areas must follow a thorough evaluation of the effects of the environment on the Loxon Concrete and Masonry Primer and topcoat system.

Loxon[®]

Concrete and Masonry Primer-Sealer

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting: US - National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead; Canada - your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Masonry, Concrete, Stucco:

All new surfaces must cure for at least 7 days. Remove all form release and curing agents. Pressure clean to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, peeling and defective coatings, chalks, etc. Allow the surface to dry before proceeding. Repair cracks, voids, and other holes with an appropriate patching compound or sealant.

Concrete and mortar must be cured at least 7 days at 75°F. Moisture content must be 15% or lower. On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Fill bugholes, air pockets and other voids with an acrylic elastomeric patch or sealant.

Caulking:

Fill gaps between walls, ceilings, crown moldings, and other trim with the appropriate caulk after priming the surface

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

PHYSICAL PROPERTIES

Do not paint on wet surfaces.

LX02W0050

Water Vapor Permeance (US):

Method: ASTM D1653 (grains/(hr ft² in Hg)

Result: 25.79 perms

Flexibility:

Method: ASTM D522

Result: method B, 180° bend, 1/8 inch mandrel
Pass

Alkali Resistance:

Method: ASTM D1308

Result: Pass

Mildew Resistance:

Method: ASTM D3273/D3274

Result: Pass

Efflorescence:

Method: ASTM D7072-04

Result: Pass (None)

Wind-Driven Rain Test:

Method: ASTM D6904-03

Result: Pass

SAFETY PRECAUTIONS

For interior or exterior use.

Protect from freezing.

Do not apply at temperatures below 40°F. Air and surface temperatures must not drop below 40°F for 48 hours after application.

Before using, carefully read **CAUTIONS** on label.

ZINC Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 08/15/2022 LX02W0050 46 00
FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

A-100®

Exterior Latex Flat

A06-Series



SHERWIN WILLIAMS®

CHARACTERISTICS

A-100 Exterior Latex is a quality exterior finish. This product is recommended for use on aluminum, vinyl, and wood siding, clapboard, shakes, shingles, plywood, masonry, and metal down to a surface and air temperature of 35°F.

Color: Most Colors

Coverage: 350-400 sq. ft. per gallon
@ 4 mils wet; 1.3 mils dry

Drying Time, @ 50% RH:

	@ 35-45°F	@ 45°F +
Touch:	2 hours	2 hours
Recoat:	24-48 hours	4 hours

Drying and recoat times are temperature, humidity, and film thickness dependent

Finish: 0-5 units @ 85°

Tinting with CCE only:

Base:	oz. per gallon	Strength:
Extra White	0-6	SherColor
Deep Base	4-12	SherColor
Ultradeep Base	10-12	SherColor

Extra White A06W00151

(may vary by color)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 34 ± 2%

Weight Solids: 49 ± 2%

Weight per Gallon: 10.97 lbs

Flash Point: N/A

Vehicle Type: 100% Acrylic

Shelf Life: 36 months unopened

WVP Perms (US) 33.1 grains/(hr ft² in Hg)

Mildew Resistant

This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

COMPLIANCE

As of 08/20/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	N/A
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	N/A
MIR-Manufacturer Inventory	N/A
MPI®	Yes

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

No reduction necessary.

Brush: Use a nylon-polyester brush.

Roller: Use a high quality 3/8-3/4 inch nap synthetic roller cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on sherwin-williams.com

Spray—Airless
Pressure 2000 p.s.i.
Tip .015-.019 inch

APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

SPECIFICATIONS

Standard latex primers cannot be used below 50°F. See specific primer label for that product's application conditions.

Aluminum & Aluminum Siding¹, Galvanized Steel¹

2 coats A-100 Exterior Latex

Concrete Block, CMU, Split face Block

1 coat Loxon Acrylic Block Surfacers

2 coats A-100 Exterior Latex

Brick, Stucco, Cement, Concrete

1 coat Loxon Concrete and Masonry Primer³
or

Loxon Conditioner²

2 coats A-100 Exterior Latex

Cement Composition Siding/Panels

1 coat Loxon Concrete and Masonry Primer³
or

Loxon Conditioner²

2 coats A-100 Exterior Latex

Plywood

1 coat Exterior Latex Primer

2 coats A-100 Exterior Latex

***Vinyl Siding**

2 coats A-100 Exterior Latex

Wood, (Cedar, Redwood)⁴

1 coat Exterior Oil-Based Wood Primer²

2 coats A-100 Exterior Latex

¹ On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher.

² Not for use at temperatures under 50°F. See specific primer label for that product's application conditions.

³ Not for use at temperatures under 40°F. See specific primer label for that product's application conditions.

⁴ Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. For best results on these woods, use a coat of Exterior Oil-Based Wood Primer.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

A-100®

Exterior Latex Flat

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Aluminum and Galvanized Steel:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method.

Cement Composition Siding/Panels:

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 9, prime with Loxon Concrete & Masonry Primer.

Caulking:

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

Concrete, Masonry, Cement, Block:

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces should be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer/Sealer. Cracks, voids, and other holes should be repaired with an elastomeric patch or sealant. **Concrete masonry units (CMU)** - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Loxon Acrylic Block Surfer. The filler must be thoroughly dry before topcoating.

Stucco:

Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 7 days and prime with Loxon Concrete & Masonry Primer. Repair cracks, voids, and other holes with an elastomeric patch or sealant.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

Previously Painted Surfaces:

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Steel:

Rust and mill scale must be removed using sandpaper, wire brush, or other abrading method. Bare steel must be primed the same day as cleaned.

***Vinyl or other PVC Building Products:**

Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, if needed prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56. Painting with darker colors lower than an LRV of 56 may cause vinyl to warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

Wood, Plywood, Composition Board:

Clean the surface thoroughly then sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All new and patched areas must be primed. Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. If applied to these bare woods, it may show some staining. If staining persists, spot prime severe areas with 1 coat of Exterior Oil-Based Wood Primer prior to using.

CAUTIONS

For Exterior use only
Protect from freezing
Non-photochemically reactive
Not for use on floors.

Before using, carefully read **CAUTIONS on label**

CRYSTALLINE SILICA, ZINC: Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 08/20/2020 A06W00151 45 37
FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

A-100[®]

Exterior Latex Gloss

A08W00151 Extra White


**SHERWIN
WILLIAMS[®]**

CHARACTERISTICS

A-100 Exterior Latex is a quality exterior finish. This product is recommended for use on aluminum, vinyl, and wood siding, clapboard, shakes, shingles, plywood, masonry, and metal down to a surface and air temperature of 35°F.

Color: Many Colors

Coverage: 350-400 sq. ft. per gallon
@ 4 mils wet; 1.4 mils dry

Drying Time, @ 50% RH:

@ 35-45°F @ 45°F +

Touch: 2 hours 2 hours
Recoat: 24-48 hours 4 hours

Drying and recoat times are temperature, humidity, and film thickness dependent

Finish: 35-45 units @ 60°

Tinting with CCE only:

Base: oz per gallon **Strength:**
Extra White 0-6 SherColor

Extra White A08W00151
(may vary by color)

VOC (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 36 ± 2%

Weight Solids: 45 ± 2%

Weight per Gallon: 9.71 lbs

Flash Point: N/A

Vehicle Type: 100% Acrylic

Shelf Life: 36 months unopened

Mildew Resistant

This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

COMPLIANCE

As of 03/27/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED[®] v4 & v4.1 Emissions	N/A
LEED[®] v4 & v4.1 VOC	Yes
EPD-NSF[®] Certified	N/A
MIR-NSF[®] Certified Manufacturer Inventory	N/A
MPI[®]	No

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

No reduction necessary.

Brush: Use a nylon-polyester brush.

Roller: Use a high quality 3/8-3/4 inch nap synthetic roller cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide.

Spray—Airless 2000 p.s.i.
Pressure .019-.021 inch
Tip

APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

SPECIFICATIONS

Standard latex primers cannot be used below 50°F. See specific primer label for that product's application conditions.

Aluminum & Aluminum Siding¹,

Galvanized Steel¹
2 coats A-100 Exterior Latex

Concrete Block, CMU, Split face Block

1 coat Loxon Acrylic Block Surfer
2 coats A-100 Exterior Latex

Brick, Stucco, Cement, Concrete

1 coat Loxon Concrete and Masonry Primer³
or

Loxon Conditioner²
2 coats A-100 Exterior Latex

Cement Composition Siding/Panels

1 coat Loxon Concrete and Masonry Primer³
or

Loxon Conditioner²
2 coats A-100 Exterior Latex

Plywood

1 coat Exterior Latex Primer
2 coats A-100 Exterior Latex

***Vinyl Siding**

2 coats A-100 Exterior Latex

Wood (Cedar, Redwood)⁴

1 coat Exterior Oil-Based Wood Primer²
2 coats A-100 Exterior Latex

¹ On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher.

² Not for use at temperatures under 50°F. See specific primer label for that product's application conditions.

³ Not for use at temperatures under 40°F. See specific primer label for that product's application conditions.

⁴ Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. For best results on these woods, use a coat of Exterior Oil-Based Wood Primer.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

A-100®

Exterior Latex Gloss

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Aluminum and Galvanized Steel:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method.

Cement Composition Siding/Panels:

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 9, prime with Loxon Concrete & Masonry Primer.

Caulking:

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

Concrete, Masonry, Cement, Block:

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces should be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer. Cracks, voids, and other holes should be repaired with an elastomeric patch or sealant. **Concrete masonry units (CMU)** - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Loxon Acrylic Block Surfer. The filler must be thoroughly dry before topcoating.

Stucco:

Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 7 days and prime with Loxon Concrete & Masonry Primer. Repair cracks, voids, and other holes with an elastomeric patch or sealant.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

Previously Painted Surfaces:

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Steel:

Rust and mill scale must be removed using sandpaper, wire brush, or other abrading method. Bare steel must be primed the same day as cleaned.

***Vinyl or other PVC Building Products:**

Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56. Painting with darker colors lower than an LRV of 56 may cause vinyl to warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

Wood, Plywood, Composition Board:

Clean the surface thoroughly then sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All new and patched areas must be primed. Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. If applied to these bare woods, it may show some staining. If staining persists, spot prime severe areas with 1 coat of Exterior Oil-Based Wood Primer prior to using.

CAUTIONS

For Exterior use only
Protect from freezing
Non-photochemically reactive
Not for use on floors

Before using, carefully read **CAUTIONS on label**

ZINC: Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 03/27/2020 A08W00151 26 37

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

PrepRite® ProBlock® Interior-Exterior Latex Primer-Sealer

B51-600 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

PrepRite ProBlock Interior-Exterior Latex Primer-Sealer:

- Assures uniform appearance of topcoats
- Fast dry
- Apply at temperatures down to 35°F
- Assures adhesion of the topcoat to slick, glossy surfaces
- Seals out solvent sensitive stains - tar, solvent based markers, etc.
- Seals minor dried water stains and tannin
- Provides easy "slip" for positioning of wallpaper

Use on Interior

- Ceiling Tiles • Paneling • Wall Laminate
- Cured Plaster • Varnished Woodwork
- Kitchen Cabinets • Ceramic Wall Tile
- Under wallcovering

Use on Interior and Exterior:

- Wood • Aluminum • Galvanized Metal
- Previously Painted Surfaces • PVC Piping
- Drywall • Concrete and Masonry • Many Plastics
- Glossy Surfaces • Fiberglass • Copper
- Glazed Block

Color: White & Deep Base

For best topcoat color development, use the recommended "P"-shade primer. Check color before use.

Coverage: 400 sq.ft.per gallon
@ 4.0 mils wet;
1.4 mils dry

Drying and recoat times are temperature, humidity, and film thickness dependent

Drying Time, @ 77°F, 50% RH:

Touch: 30 minutes

Recoat: as a primer 1 hour

Recoat: as a stain sealer: 4 hours

Recoat: to apply wallcovering: 3 hours

Finish: 5-10 units @85°

Tinting with CCE only:

Base	oz. per gallon	Strength
White	0-4	SherColor
Deep Base	4-12	SherColor

White B51W00620
(may vary by base)

V.O.C. (less exempt solvents):

less than 50 grams per litre; .42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 35 ± 2%

Weight Solids: 52 ± 2%

Weight per Gallon: 10.9 lbs

Flash Point: N.A.

Vehicle Type: Styrenated Acrylic Latex

Shelf Life: 36 months unopened

Anti-microbial - This product contains agents which inhibit the growth of microbes on the surface of this paint film.

COMPLIANCE

As of 05/13/2021, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Product Lens Certified	Yes
MPI®	Yes

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours. Air and surface temperatures must not drop below 35°F for 48 hours after application.

Do not reduce for stain blocking

Brush:

Use a nylon-polyester brush.

Roller:

Use a 3/8 inch nap soft woven roller cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on sherwin-williams.com

Spray—Airless:

Pressure 2000 p.s.i.

Tip .015-.021 inch

APPLICATION TIPS

For best topcoat color development, use the recommended "P"-shade primer.

When spot priming on some surfaces, a non-uniform appearance of the final coat may result, due to differences in holdout between primed and unprimed areas. To avoid this, prime the entire surface rather than spot priming.

For optimal performance, this primer must be topcoated with a latex, alkyd-oil, water based epoxy, or solvent based epoxy coating on architectural applications.

For exterior exposure, this primer must be topcoated within 14 days with architectural latex or oil finishes.

For better performance when priming an entire house, use Exterior Latex or Oil-Based Primers

PrepRite ProBlock Latex Primer-Sealer can be topcoated in 1 hour in non-stain blocking applications.

SPECIFICATIONS

1 coat PrepRite ProBlock Interior-Exterior Latex Primer-Sealer

2 coats Appropriate topcoat

Recommended Architectural Topcoats:

All Surface Enamels
A-100 Exterior Latex
Duration Exterior & Duration Home Interior
Emerald Exterior & Interior
Emerald Urethane Trim Enamel
SuperPaint Exterior & Interior
ProClassic Interior Enamels
ProMar Series Interior

Recommended Industrial Topcoats:

Pro Industrial Acrylic Coating
Pro Industrial Pre-Cat Epoxy
Pro Industrial Pre-Cat Urethane
Pro Industrial Waterbased Catalyzed Epoxy

PrepRite® ProBlock®

Interior-Exterior Latex Primer-Sealer

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Special recommendations - After priming stained areas, allow to dry 4 hours, test a small area for bleeding by applying the topcoat before painting the entire project. If the stain bleeds through, apply a second coat of primer and allow to dry overnight and retest before topcoating.

Caulking - Fill gaps between walls, ceilings, crown moldings, and other trim with the appropriate caulk after priming the surface.

Drywall - Fill cracks and nail holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Fire restoration work - Thoroughly clean the surface before applying to smoke stained areas. Apply one or two coats of PrepRite ProBlock Latex Primer-Sealer and test a small area for bleeding before painting the entire surface.

Testing - Always check for compatibility and adhesion to the surface by applying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion.

Tile - laminate, ceramic and plastic tiles, and similar glossy surfaces, must be free of all oil, grease, and soap residue. Do not use this product in areas subject to excessive water, e.g.: in showers, around sinks, on counter tops.

On hard, slick, glossy, or otherwise hard to paint surfaces, after preparing the surface, apply a test area of this primer, allow to dry properly and test for adhesion.

When used as a primer under wallcovering. After wallcovering has been applied and the adhesive has dried and cured, wait at least 21 days before removing the wallcovering to avoid damage to the drywall.

SURFACE PREPARATION

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

Plaster - Must be cured, usually 30 days, and hard. If painting cannot wait, allow the surface to dry 7 days and prime with Loxon Concrete and Masonry Primer. Soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with water and allow to dry before painting.

Wood Exterior - Sand any exposed, weathered wood to a fresh surface. Replace any deteriorated wood. On woods that present potential tannin bleeding, such as redwood and cedar, PrepRite ProBlock Latex Primer-Sealer can be used. Care must be taken to determine if tannins will be activated by the water in the coating. To test for bleeding, coat a 4 foot by 4 foot section with the primer. If no bleeding is evident within 4 hours, proceed with complete priming. If bleeding occurs, use Exterior Oil-Based Wood Primer.

For a complete whole house primer outside, use Exterior Latex Wood Primer or Exterior Oil-Based Wood Primer.

CAUTIONS

Protect from freezing.

Before using, carefully read **CAUTIONS on label**

CRYSTALLINE SILICA: Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 05/13/2021 B51W00620 27 00

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

Pro Industrial™ Pro-Cryl® Universal Primer

B66-1300 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Pro Industrial Pro-Cryl® Universal Primer is an advanced technology, self cross-linking acrylic primer. It is rust inhibitive and was designed for both construction and maintenance applications. It can be used as a primer under water-based or solvent-based high performance topcoats.

Features:

- Rust inhibitive, corrosion resistant
- Single component
- Early moisture resistant
- Fast dry
- Lower temperature application 40°F
- Interior and exterior use
- Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized & Aluminum, wood

Finish: Low Sheen

Color: Off White, Medium Grey, and Red Oxide

Recommended Spreading Rate per coat:

Wet mils: 5.0-10.0

Dry mils: 1.9-3.8

Coverage: 160-320 sq.ft. per gallon

Theoretical Coverage: 609 sq. ft. per gallon @ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss.

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

	@40°F	@77°F	@120°F
To touch	2 hours	40 minutes	20 minutes
Tack free	8 hours	2 hours	1 hour
To recoat	16 hours	4 hours	2 hours

Tinting: DO NOT TINT

Off White B66W01310

(may vary by base)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 38 ± 2%

Weight Solids: 49 ± 2%

Weight per Gallon: 10.09 lb

Flash Point: N/A

Shelf Life: 36 months, unopened

COMPLIANCE

As of 10/11/2021, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	Yes
MPI®	Yes

APPLICATION

Temperature:

minimum 40°F

maximum 120°F

air, surface, and material

At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Water

Airless Spray:

Pressure 2000 p.s.i.

Hose 1/4 inch I.D.

Tip .015 - .019 inch

Filter 60 mesh

Conventional Spray:

Gun Binks 95

Fluid Nozzle 66

Air Nozzle 63 PB

Atomization Pressure 60 p.s.i.

Fluid Pressure 25 p.s.i.

Reduction: as needed up to 5 % by volume

Brush: Nylon-polyester

Roller Cover: 3/8 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. For best results on rusty surfaces, always apply first coat by brush. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

No painting should be done immediately after a rain or during foggy weather.

For optimal performance, this primer should be topcoated.

For exterior exposure, this primer should be topcoated within 14 days. If 14 days is exceeded remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Finish with appropriate topcoat.

SPECIFICATIONS

Acceptable Water Based topcoats:

1-2 coats Pro Industrial Acrylic Coating or Pro Industrial Acrylic Dryfall
Pro Industrial DTM Acrylic
Pro Industrial Multi-Surface Acrylic
Pro Industrial Pre-Catalyzed Epoxy
Pro Industrial Pre-Catalyzed Urethane
Pro Industrial Water Based Acrolon 100
Pro Industrial Water Base Alkyd Urethane
Pro Industrial Water Based Catalyzed Epoxy
Sherwin-Williams Architectural Coatings

Acceptable Solvent Based topcoats:

Pro Industrial High Performance Epoxy
Pro Industrial Series
Industrial Enamels
Steel Master 9500 Silicone Alkyd
Tile-Clad HS Epoxy
Water Based Catalyzed Epoxy

The finishes listed above are representative of the product's use, other finishes may be appropriate.

Pro Industrial™ Pro-Cryl® Universal Primer

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Do not use hydrocarbon solvents for cleaning.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Iron & Steel - Minimum surface preparation is Hand Tool Cleaning per SSPC-SP2. Remove all oil and grease from the surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Prime the area the same day as cleaned. Self priming

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Self priming.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. Self priming.

Previously Painted Surfaces - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Wood - Surface must be clean, dry and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

SURFACE PREPARATION

Mildew- Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

PERFORMANCE

System Tested: (unless otherwise indicated)

Substrate: Steel
Surface Preparation: SSPC-SP10
Finish: 1 coat Pro Industrial Pro-Cryl Off White
1 coat Pro Industrial Acrylic Coating

Adhesion:
Method: ASTM D4541
Result: 500 p.s.i.

Corrosion Weathering:
Method: ASTM D5894, 10 cycles,
3360 hours
Result: Passes

Direct Impact Resistance:
Method: ASTM D2794
Result: greater than 140 inch lb.

Dry Heat Resistance:
Method: ASTM D2485
Result: 200°F

Flexibility:
Method: ASTM D522, 180° bend,
1/4 inch mandrel
Result: Passes

Moisture Condensation Resistance:
Method: ASTM D4585, 100°F,
1250 hours
Result: Passes

Pencil Hardness:
Method: ASTM D3363
Result: B

Salt Fog Resistance:
Method: ASTM B117, 1250 hours
Result: Passes

Provides performance comparable to products formulated In Lieu of federal specification: AA50557 and Paint Specification: SSPC-Paint 23.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use. **FOR PROFESSIONAL USE ONLY.**

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

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HOTW	10/11/2021	B66N01310	05 40
FRC			

Pro Industrial™ Waterbased Alkyd Urethane Enamel Semi-Gloss

B53-1150/2150 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Pro Industrial Waterbased Alkyd Urethane Enamel™ is a premium quality interior-exterior enamel formulated with a urethane modified alkyd resin system for high performance. It provides beauty and durability when applied to interior-exterior surfaces such as properly prepared drywall, wood, masonry and metal. It brings together the convenience and ease of use of a waterborne coating with the performance and coating characteristics of a traditional oil-based enamel.

- Excellent washability & flow & leveling
- Excellent touch up
- Easy application & cleanup
- Resistant to yellowing compared to traditional alkyds
- Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized & Aluminum, Drywall, Concrete and Masonry, and Wood.

Finish: 50-70° @60°

Color: Most colors

Recommended Spreading Rate per coat:

Wet mils: 4.0-5.0

Dry mils: 1.4-1.7

Coverage: 320-389 sq.ft. per gallon

Theoretical Coverage: 545 sq. ft. per gallon
@ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss.

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

@77°F

To touch 1-2 hours

To recoat 4 hours

Tinting with CCE only:

Base	oz. per gallon	Strength
Extra White	0-6	SherColor
Deep Base	4-12	SherColor
Ultradeep Base	10-14	SherColor

Extra White B53W02151

(may vary by color)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 34 ± 2%

Weight Solids: 51 ± 2%

Weight per Gallon: 10.94 lb

Flash Point: N/A

Vehicle Type: Urethane modified alkyd

Shelf Life: 36 months, unopened

COMPLIANCE

As of 03/10/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certification	No
MIR-Manufacturer Inventory	No
NSF® Certification	No
MPI®	No

APPLICATION

Temperature:

minimum 50°F / 10°C

maximum 100°F / 37.8°C

air, surface, and material

At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Water

Airless Spray:

Pressure 2000 p.s.i.

Hose 1/4 inch I.D.

Tip .013 - .017 inch

Filter 60 mesh

Reduction Not recommended

Brush Nylon-polyester

Roller Cover 1/4-1/2 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

No painting should be done immediately after a rain or during foggy weather.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. Apply coating evenly while maintaining a wet edge to prevent lapping.

SPECIFICATIONS

Steel:

- 1 coat Pro Industrial Pro-Cryl Primer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Aluminum and Galvanizing:

- 1 coat Pro Industrial Pro-Cryl Primer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete Block (CMU):

- 1 coat Pro Industrial Heavy Duty Blockfiller or Loxon Acrylic Block Surfer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete-Masonry:

- 1 coat Loxon Concrete & Masonry Primer (if needed)
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Drywall:

- 1 coat ProMar 200 Zero V.O.C. Primer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, exterior:

- 1 coat Exterior Wood Primer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, interior:

- 1 coat Premium Wall & Wood Primer
- 2 coats Pro Industrial Waterbased Alkyd Urethane

The systems listed above are representative of the product's use, other systems may be appropriate.

Pro Industrial™

Waterbased Alkyd Urethane Enamel Semi-Gloss

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Do not use hydrocarbon solvents for cleaning.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Prime the area the same day as cleaned.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Pro industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

Wood - Surface must be clean, dry, and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

SURFACE PREPARATION

Previously Painted Surface - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Mildew- Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/ water solution.

PERFORMANCE

System Tested: (unless otherwise indicated)

Substrate: Steel
Surface Preparation: SSPC-SP10

Finish:
1 coat Waterbased Alkyd Urethane, 5 W.F.T.

Adhesion:
Method: ASTM D3359 method B
Result: 4B

Pencil Hardness:
Method: ASTM D3363
Result: 4H

Flexibility:
Method: Method: ASTM D522,
180° bend, 1/4" mandrel
Result: Pass

Dry Heat Resistance:
Method: ASTM D2485
Result: 200°F

Block Resistance:
Lab assessment: Excellent

Resistance to Yellowing:
Lab assessment: Excellent

No painting should be done immediately after a rain or during foggy weather. Do not paint on wet surfaces. Check adhesion by applying a test strip to determine the readiness for painting.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use. **FOR PROFESSIONAL USE ONLY.**

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

HOTW 03/10/2020 B53W01153 09 39
FRC

Environmental Data Sheets

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Apr 6, 2023

50 00 [0963]

PRODUCT NUMBER

LX02W50

PRODUCT NAME

LOXON® Concrete & Masonry Primer/Sealer, White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

LX02W50 = | Acute | Chronic |

Product Weight

10.92 lb/gal

Specific Gravity

1.31

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	43	57

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	1	
Zinc Compound	N	N	Y	N	1	

Volatile Organic Compounds - U.S. EPA / Canada

	LX02W50	
	LB/Gal	g/L
Coating Density	10.92	1308
	By wt	By vol
Total Volatiles	44.7%	59.7%
Federally exempt solvents		
Water	43.0%	57.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.3%
Organic Volatiles	1.5%	2.0%
Percent Non-Volatile	55.3%	40.3%
VOC Content	LB/Gal	g/L
Total	0.16	19
Less exempt solvents	0.39	46
Of solids	0.41	49
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.02**

Volatile Organic Compounds - California

	LX02W50	
	LB/Gal	g/L
Coating Density	10.92	1308
	By wt	By vol
Total Volatiles	44.7%	59.7%
Exempt solvents		
Water	43.0%	57.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.3%
Organic Volatiles	1.5%	2.0%
Percent Non-Volatile	55.3%	40.3%
VOC Content	LB/Gal	g/L
Total	0.16	19
Less exempt solvents	0.39	46
Of solids	0.41	49
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.02**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	LX02W50	
	LB/Gal	g/L
Coating Density	10.92	1308
	By wt	By vol
Total Volatiles	44.7%	59.7%
Exempt solvents		
Water	43.0%	57.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.3%
Organic Volatiles	1.5%	2.0%
Percent Non-Volatile	55.3%	40.3%
VOC Content	LB/Gal	g/L
Total	0.16	19
Less exempt solvents	0.39	46
Of solids	0.41	49
Of solids	0.02 lb/lb	0.02 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	LX02W50	
	By wt	By vol
Total Volatiles	43.8%	58.4%
VOC Content	LB/Gal	g/L
Total	0.06	7

Volatile Organic Compounds - EU Directive 2010/75/EU

	LX02W50	
	By wt	By vol
Total Volatiles	43.8%	58.4%
VOC Content	LB/Gal	g/L
Total	0.06	7

Volatile Organic Compounds - Mexico

	LX02W50	
	LB/Gal	g/L
Coating Density	10.92	1308
	By wt	By vol
Total Volatiles	44.7%	59.7%
Exempt solvents		
Water	43.0%	57.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.3%
Organic Volatiles	1.5%	2.0%
Percent Non-Volatile	55.3%	40.3%
VOC Content	LB/Gal	g/L
Total	0.16	19
Less exempt solvents	0.39	46
Of solids	0.41	49
Of solids	0.02 lb/lb	0.02 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	LX02W50	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

8.01 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

Not Applicable

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

58 00 [0973]

Date of Preparation
Apr 7, 2023

PRODUCT NUMBER

A6W151

PRODUCT NAME

A-100® Exterior Acrylic Latex Flat, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

A6W151 = | Acute | Chronic |

Product Weight

10.97 lb/gal

Specific Gravity

1.32

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	50	64

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	2	
Zinc Compound	N	N	Y	N	2	

Volatile Organic Compounds - U.S. EPA / Canada

	A6W151	
	LB/Gal	g/L
Coating Density	10.97	1314
	By wt	By vol
Total Volatiles	50.6%	65.9%
Federally exempt solvents		
Water	49.6%	64.5%
Organic Volatiles	1.0%	1.3%
Percent Non-Volatile	49.4%	34.1%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.31	37
Of solids	0.32	38
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.02**

Volatile Organic Compounds - California

	A6W151	
	LB/Gal	g/L
Coating Density	10.97	1314
	By wt	By vol
Total Volatiles	50.6%	65.9%
Exempt solvents		
Water	49.6%	64.5%
Organic Volatiles	1.0%	1.3%
Percent Non-Volatile	49.4%	34.1%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.31	37
Of solids	0.32	38
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.02**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	A6W151	
	LB/Gal	g/L
Coating Density	10.97	1314
	By wt	By vol
Total Volatiles	50.6%	65.9%
Exempt solvents		
Water	49.6%	64.5%
Organic Volatiles	1.0%	1.3%
Percent Non-Volatile	49.4%	34.1%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.31	37
Of solids	0.32	38
Of solids	0.02 lb/lb	0.02 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	A6W151	
	By wt	By vol
Total Volatiles	50.3%	65.4%
VOC Content	LB/Gal	g/L
Total	0.07	8

Volatile Organic Compounds - EU Directive 2010/75/EU

	A6W151	
	By wt	By vol
Total Volatiles	50.3%	65.4%
VOC Content	LB/Gal	g/L
Total	0.07	8

Volatile Organic Compounds - Mexico

	A6W151	
	LB/Gal	g/L
Coating Density	10.97	1314
	By wt	By vol
Total Volatiles	50.6%	65.9%
Exempt solvents		
Water	49.6%	64.5%
Organic Volatiles	1.0%	1.3%
Percent Non-Volatile	49.4%	34.1%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.31	37
Of solids	0.32	38
Of solids	0.02 lb/lb	0.02 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	A6W151	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

8.41 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

Not Applicable

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Oct 16, 2020

11 00 [1800]

PRODUCT NUMBER

A8W151

PRODUCT NAME

A-100® Exterior Acrylic Latex Gloss, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

A8W151 = | Acute | Chronic |

Product Weight

9.71 lb/gal

Specific Gravity

1.17

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	53	62

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	2	
Zinc Compound	N	N	Y	N	2	

Volatile Organic Compounds - U.S. EPA / Canada

	A8W151	
	LB/Gal	g/L
Coating Density	9.71	1163
	By wt	By vol
Total Volatiles	54.6%	63.5%
Federally exempt solvents		
Water	53.4%	62.1%
Organic Volatiles	1.1%	1.2%
Percent Non-Volatile	45.4%	36.5%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.29	34
Of solids	0.30	36
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.03**

Volatile Organic Compounds - California

	A8W151	
	LB/Gal	g/L
Coating Density	9.71	1163
	By wt	By vol
Total Volatiles	54.6%	63.5%
Exempt solvents		
Water	53.4%	62.1%
Organic Volatiles	1.1%	1.2%
Percent Non-Volatile	45.4%	36.5%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.29	34
Of solids	0.30	36
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.02**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	A8W151	
	LB/Gal	g/L
Coating Density	9.71	1163
	By wt	By vol
Total Volatiles	54.6%	63.5%
Exempt solvents		
Water	53.4%	62.1%
Organic Volatiles	1.1%	1.2%
Percent Non-Volatile	45.4%	36.5%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.29	34
Of solids	0.30	36
Of solids	0.02 lb/lb	0.02 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	A8W151	
	By wt	By vol
Total Volatiles	54.3%	63.1%
VOC Content	LB/Gal	g/L
Total	0.08	9

Volatile Organic Compounds - EU Directive 2010/75/EU

	A8W151	
	By wt	By vol
Total Volatiles	54.3%	63.1%
VOC Content	LB/Gal	g/L
Total	0.08	9

Volatile Organic Compounds - Mexico

	A8W151	
	LB/Gal	g/L
Coating Density	9.71	1163
	By wt	By vol
Total Volatiles	54.6%	63.5%
Exempt solvents		
Water	53.4%	62.1%
Organic Volatiles	1.1%	1.2%
Percent Non-Volatile	45.4%	36.5%
VOC Content	LB/Gal	g/L
Total	0.11	13
Less exempt solvents	0.29	34
Of solids	0.30	36
Of solids	0.02 lb/lb	0.02 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	A8W151	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

8.61 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

Not Applicable

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Feb 21, 2023

37 00 [0093]

PRODUCT NUMBER

B51W620

PRODUCT NAME

PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer, White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

B51W620 = | Acute | Chronic |

Product Weight

10.89 lb/gal

Specific Gravity

1.31

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	48	65

Volatile Organic Compounds - U.S. EPA / Canada

	B51W620	
	LB/Gal	g/L
Coating Density	10.89	1304
	By wt	By vol
Total Volatiles	48.4%	64.9%
Federally exempt solvents		
Water	48.3%	64.7%
Non-Organic Volatiles		
Ammonium Hydroxide	0.1%	0.2%
Organic Volatiles	0.0%	0.0%
Percent Non-Volatile	51.6%	35.1%
VOC Content	LB/Gal	g/L
Total	0.00	0
Less exempt solvents	0.00	0
Of solids	0.00	0
Of solids	0.00 lb/lb	0.00 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.00**

Volatile Organic Compounds - California

	B51W620	
	LB/Gal	g/L
Coating Density	10.89	1304
	By wt	By vol
Total Volatiles	48.4%	64.9%
Exempt solvents		
Water	48.3%	64.7%
Non-Organic Volatiles		
Ammonium Hydroxide	0.1%	0.2%
Organic Volatiles	0.0%	0.0%
Percent Non-Volatile	51.6%	35.1%
VOC Content	LB/Gal	g/L
Total	0.00	0
Less exempt solvents	0.00	0
Of solids	0.00	0
Of solids	0.00 lb/lb	0.00 kg/kg
	By wt	
By wt LVP-VOC	0.0%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.00**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	B51W620	
	LB/Gal	g/L
Coating Density	10.89	1304
	By wt	By vol
Total Volatiles	48.4%	64.9%
Exempt solvents		
Water	48.3%	64.7%
Non-Organic Volatiles		
Ammonium Hydroxide	0.1%	0.2%
Organic Volatiles	0.0%	0.0%
Percent Non-Volatile	51.6%	35.1%
VOC Content	LB/Gal	g/L
Total	0.00	0
Less exempt solvents	0.00	0
Of solids	0.00	0
Of solids	0.00 lb/lb	0.00 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	B51W620	
	By wt	By vol
Total Volatiles	48.4%	64.9%
VOC Content	LB/Gal	g/L
Total	0.00	0

Volatile Organic Compounds - EU Directive 2010/75/EU

	B51W620	
	By wt	By vol
Total Volatiles	48.4%	64.9%
VOC Content	LB/Gal	g/L
Total	0.00	0

Volatile Organic Compounds - Mexico

	B51W620	
	LB/Gal	g/L
Coating Density	10.89	1304
	By wt	By vol
Total Volatiles	48.4%	64.9%
Exempt solvents		
Water	48.3%	64.7%
Non-Organic Volatiles		
Ammonium Hydroxide	0.1%	0.2%
Organic Volatiles	0.0%	0.0%
Percent Non-Volatile	51.6%	35.1%
VOC Content	LB/Gal	g/L
Total	0.00	0
Less exempt solvents	0.00	0
Of solids	0.00	0
Of solids	0.00 lb/lb	0.00 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	B51W620	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

6.07 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

Not Applicable

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Jan 23, 2023

05 00 [2312]

PRODUCT NUMBER

B66W1310

PRODUCT NAME

PRO INDUSTRIAL™ PRO-CRYL® Universal Acrylic Primer, Off White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

B66W1310 = | Acute | Chronic |

Product Weight

10.09 lb/gal

Specific Gravity

1.21

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	49	59

Volatile Organic Compounds - U.S. EPA / Canada

	B66W1310	
	LB/Gal	g/L
Coating Density	10.09	1209
	By wt	By vol
Total Volatiles	50.5%	61.6%
Federally exempt solvents		
Water	48.9%	59.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.2%
Organic Volatiles	1.3%	1.8%
Percent Non-Volatile	49.5%	38.4%
VOC Content	LB/Gal	g/L
Total	0.13	15
Less exempt solvents	0.32	39
Of solids	0.34	41
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.3%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.02**

Volatile Organic Compounds - California

	B66W1310	
	LB/Gal	g/L
Coating Density	10.09	1209
	By wt	By vol
Total Volatiles	50.5%	61.6%
Exempt solvents		
Water	48.9%	59.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.2%
Organic Volatiles	1.4%	1.9%
Percent Non-Volatile	49.5%	38.4%
VOC Content	LB/Gal	g/L
Total	0.14	17
Less exempt solvents	0.35	41
Of solids	0.37	44
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.4%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.02**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	B66W1310	
	LB/Gal	g/L
Coating Density	10.09	1209
	By wt	By vol
Total Volatiles	50.5%	61.6%
Exempt solvents		
Water	48.9%	59.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.2%
Organic Volatiles	1.4%	1.9%
Percent Non-Volatile	49.5%	38.4%
VOC Content	LB/Gal	g/L
Total	0.14	17
Less exempt solvents	0.35	41
Of solids	0.37	44
Of solids	0.02 lb/lb	0.02 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	B66W1310	
	By wt	By vol
Total Volatiles	50.5%	61.6%
VOC Content	LB/Gal	g/L
Total	0.14	17

Volatile Organic Compounds - EU Directive 2010/75/EU

	B66W1310	
	By wt	By vol
Total Volatiles	49.4%	60.2%
VOC Content	LB/Gal	g/L
Total	0.03	4

Volatile Organic Compounds - Mexico

	B66W1310	
	LB/Gal	g/L
Coating Density	10.09	1209
	By wt	By vol
Total Volatiles	50.5%	61.6%
Exempt solvents		
Water	48.9%	59.4%
Non-Organic Volatiles		
Ammonium Hydroxide	0.2%	0.2%
Organic Volatiles	1.4%	1.9%
Percent Non-Volatile	49.5%	38.4%
VOC Content	LB/Gal	g/L
Total	0.14	17
Less exempt solvents	0.35	41
Of solids	0.37	44
Of solids	0.02 lb/lb	0.02 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	B66W1310	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.23 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

Not Applicable

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Nov 26, 2022

12 00 [3302]

PRODUCT NUMBER

B53W2151

PRODUCT NAME

PRO INDUSTRIAL™ Waterbased Alkyd Urethane Semi-Gloss, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

Hazard Category (for SARA 311.312)

B53W2151 = | Chronic |

Product Weight

10.93 lb/gal

Specific Gravity

1.32

FLASH POINT

N.A.

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Water 7732-18-5	N	N	N	N	48	64

Volatile Organic Compounds - U.S. EPA / Canada

	B53W2151	
	LB/Gal	g/L
Coating Density	10.93	1310
	By wt	By vol
Total Volatiles	49.0%	66.1%
Federally exempt solvents		
Water	47.7%	64.1%
2-Amino-2-Methyl-1-Propanol	0.1%	0.2%
Organic Volatiles	1.1%	1.8%
Percent Non-Volatile	51.0%	33.9%
VOC Content	LB/Gal	g/L
Total	0.11	14
Less exempt solvents	0.32	39
Of solids	0.34	41
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.7%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.14**

Volatile Organic Compounds - California

	B53W2151	
	LB/Gal	g/L
Coating Density	10.93	1310
	By wt	By vol
Total Volatiles	49.0%	66.1%
Exempt solvents		
Water	47.7%	64.1%
Organic Volatiles	1.2%	2.0%
Percent Non-Volatile	51.0%	33.9%
VOC Content	LB/Gal	g/L
Total	0.13	15
Less exempt solvents	0.36	43
Of solids	0.38	46
Of solids	0.02 lb/lb	0.02 kg/kg
	By wt	
By wt LVP-VOC	0.9%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.03**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	B53W2151	
	LB/Gal	g/L
Coating Density	10.93	1310
	By wt	By vol
Total Volatiles	49.0%	66.1%
Exempt solvents		
Water	47.7%	64.1%
Organic Volatiles	1.2%	2.0%
Percent Non-Volatile	51.0%	33.9%
VOC Content	LB/Gal	g/L
Total	0.13	15
Less exempt solvents	0.36	43
Of solids	0.38	46
Of solids	0.02 lb/lb	0.02 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	B53W2151	
	By wt	By vol
Total Volatiles	49.0%	66.1%
VOC Content	LB/Gal	g/L
Total	0.13	16

Volatile Organic Compounds - EU Directive 2010/75/EU

	B53W2151	
	By wt	By vol
Total Volatiles	49.0%	66.1%
VOC Content	LB/Gal	g/L
Total	0.13	16

Volatile Organic Compounds - Mexico

	B53W2151	
	LB/Gal	g/L
Coating Density	10.93	1310
	By wt	By vol
Total Volatiles	49.0%	66.1%
Exempt solvents		
Water	47.7%	64.1%
Organic Volatiles	1.2%	2.0%
Percent Non-Volatile	51.0%	33.9%
VOC Content	LB/Gal	g/L
Total	0.13	15
Less exempt solvents	0.36	43
Of solids	0.38	46
Of solids	0.02 lb/lb	0.02 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	B53W2151	
	LB/Gal	kg/L
Volatile HAPS	0.00	0.000
Of solids	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

6.66 lb/gal

Photochemically Reactive

No

Additional Regulatory Information

US EPA TSCA:

This product contains iron(1+), chloro[rel-1,5-dimethyl (1R,2S,4R,5S)-9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-.kappa.N)-7-[(2-pyridinyl-.kappa.N)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-.kappa.N3,.kappa.N7]- chloride (1:1), (OC-6-63)- (CAS No. 478945-46-9) which is subject to a SNUR (Significant New Use Rule) codified as 40 CFR 721.10414. Refer to 40 CFR 721.10414 to ensure compliance with the SNUR requirements.

Relevant identified uses of the substance or mixture and uses advised against:

Not Applicable

Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Safety Data Sheets

SAFETY DATA SHEET

LX02W50

Section 1. Identification

Product name	: LOXON® Concrete & Masonry Primer/Sealer White
Product code	: LX02W50
Other means of identification	: Not available.
Product type	: Liquid.
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: 1-800-474-3794 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.8% (oral), 7.8% (dermal), 7.8% (inhalation)

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: May cause cancer.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Section 2. Hazards identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : IF exposed or concerned: Get medical advice or attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Crystalline Silica, respirable powder	≤10	14808-60-7
Zinc Oxide	≤3	1314-13-2
Heavy Paraffinic Oil	≤1	64742-65-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
Crystalline Silica, respirable powder	14808-60-7	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO ₂ +5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 µg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE] TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust
Zinc Oxide	1314-13-2	NIOSH REL (United States, 10/2020). CEIL: 15 mg/m ³ Form: Dust TWA: 5 mg/m ³ 10 hours. Form: Dust and fumes STEL: 10 mg/m ³ 15 minutes. Form: Fume OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction
Heavy Paraffinic Oil	64742-65-0	OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]

Section 8. Exposure controls/personal protection

TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
NIOSH REL (United States, 10/2020). [OIL MIST MINERAL]
 TWA: 5 mg/m³ 10 hours. Form: Mist
 STEL: 10 mg/m³ 15 minutes. Form: Mist

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	<p>CA British Columbia Provincial (Canada, 3/2022). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction</p> <p>CA Quebec Provincial (Canada, 6/2021). TWAEV: 10 mg/m³ 8 hours. Form: Total dust.</p> <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>
Quartz	14808-60-7	<p>CA British Columbia Provincial (Canada, 3/2022). [Silica, Crystalline - alpha quartz and Cristobalite] TWA: 0.025 mg/m³ 8 hours. Form: Respirable</p> <p>CA Quebec Provincial (Canada, 6/2021). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust.</p> <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate</p> <p>CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m³ 8 hours. Form: Respirable particulate matter.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction</p>
Zinc Oxide	1314-13-2	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form: Respirable</p> <p>CA British Columbia Provincial (Canada, 3/2022). TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable</p> <p>CA Quebec Provincial (Canada, 6/2021). TWAEV: 2 mg/m³ 8 hours. Form: Respirable</p>

Section 8. Exposure controls/personal protection

		dust. STEV: 10 mg/m ³ 15 minutes. Form: Respirable dust. CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m ³ 8 hours. Form: Respirable particulate matter. STEL: 10 mg/m ³ 15 minutes. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m ³ 15 minutes. Form: respirable dust and fume TWA: 2 mg/m ³ 8 hours. Form: respirable dust and fume
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Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Crystalline Silica, respirable powder	14808-60-7	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
Zinc Oxide	1314-13-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 9.5
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 0.09 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : 2.3 kPa (17.5 mm Hg)
- Relative vapor density** : 1 [Air = 1]
- Relative density** : 1.31
- Solubility(ies)** :

Media	Result
cold water	Partially soluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
- Molecular weight** : Not applicable.
- Aerosol product**
- Heat of combustion** : 1.513 kJ/g

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Heavy Paraffinic Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Crystalline Silica, respirable powder	-	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Crystalline Silica, respirable powder	Category 1	inhalation	-

Aspiration hazard

Section 11. Toxicological information

Name	Result
Heavy Paraffinic Oil	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Zinc Oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Zinc Oxide	-	28960	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-

Section 14. Transport information

Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 2-Methyl-4-isothiazolin-3-one; 5-Chloro-2-methylisothiazolinone

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists

- Australia inventory (AIIIC):** Not determined.
- China inventory (IECSC):** Not determined.
- Japan inventory (CSCL):** Not determined.
- Japan inventory (ISHL):** Not determined.
- Korea inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand inventory:** Not determined.
- Turkey inventory:** Not determined.
- Vietnam inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

Section 16. Other information

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

History

Date of printing : 1/13/2023

Date of issue/Date of revision : 1/13/2023

Date of previous issue : 11/27/2022

Version : 14.03

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

📌 Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.


SAFETY DATA SHEET

A6W151

Section 1. Identification

Product name	: A-100® Exterior Acrylic Latex Flat Extra White
Product code	: A6W151
Other means of identification	: Not available.
Product type	: Liquid.
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: 1-800-474-3794 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 1A
<u>GHS label elements</u>	
Hazard pictograms	: 
Signal word	: Danger
Hazard statements	: May cause cancer.
<u>Precautionary statements</u>	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.
Response	: IF exposed or concerned: Get medical advice or attention.

Section 2. Hazards identification

- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Zinc Oxide	≤3	1314-13-2
Heavy Paraffinic Oil	≤1	64742-65-0
Cristobalite, respirable powder	≤0.3	14464-46-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
Zinc Oxide	1314-13-2	NIOSH REL (United States, 10/2020). CEIL: 15 mg/m ³ Form: Dust TWA: 5 mg/m ³ 10 hours. Form: Dust and fumes STEL: 10 mg/m ³ 15 minutes. Form: Fume OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction
Heavy Paraffinic Oil	64742-65-0	OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Cristobalite, respirable powder	14464-46-1	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / 2 x (%SiO ₂ +5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / 2 x (%SiO ₂ +2) 8 hours. Form: Respirable TWA: 30 mg/m ³ / 2 x (%SiO ₂ +2) 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 µg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2022). [Silica,

Section 8. Exposure controls/personal protection

		<p>crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE] TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</p>
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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	<p>CA British Columbia Provincial (Canada, 3/2022). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2021). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>
Zinc Oxide	1314-13-2	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form: Respirable CA British Columbia Provincial (Canada, 3/2022). TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable CA Quebec Provincial (Canada, 6/2021). TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust. STEV: 10 mg/m³ 15 minutes. Form: Respirable dust. CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. STEL: 10 mg/m³ 15 minutes. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m³ 15 minutes. Form: respirable dust and fume TWA: 2 mg/m³ 8 hours. Form: respirable dust and fume</p>
Cristobalite	14464-46-1	<p>CA British Columbia Provincial (Canada, 3/2022). [Silica, Crystalline - alpha quartz and Cristobalite] TWA: 0.025 mg/m³ 8 hours. Form:</p>

Section 8. Exposure controls/personal protection

		Respirable CA Quebec Provincial (Canada, 6/2021). TWAEV: 0.05 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 0.05 mg/m ³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m ³ 8 hours. Form: respirable fraction
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Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Zinc Oxide	1314-13-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.
Color : Not available.
Odor : Not available.
Odor threshold : Not available.
pH : 9
Melting point/freezing point : Not available.
Boiling point, initial boiling point, and boiling range : 100°C (212°F)
Flash point : Closed cup: Not applicable.
Evaporation rate : 0.09 (butyl acetate = 1)
Flammability : Not available.
Lower and upper explosion limit/flammability limit : Not available.
Vapor pressure : 2.3 kPa (17.5 mm Hg)
Relative vapor density : 1 [Air = 1]
Relative density : 1.32
Solubility(ies) :

Media	Result
cold water	Partially soluble

Partition coefficient: n-octanol/water : Not applicable.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Molecular weight : Not applicable.
Aerosol product
Heat of combustion : 1.212 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.
Chemical stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : No specific data.

Section 10. Stability and reactivity

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Heavy Paraffinic Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide Cristobalite, respirable powder	- -	2B 1	- Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Cristobalite, respirable powder	Category 1	inhalation	respiratory tract

Aspiration hazard

Section 11. Toxicological information

Name	Result
Heavy Paraffinic Oil	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Zinc Oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Zinc Oxide	-	28960	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

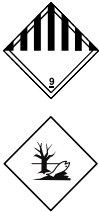
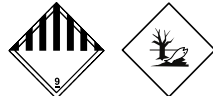
Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	UN3082	UN3082
UN proper shipping name	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Pyrithione, Zinc Oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Pyrithione, Zinc Oxide). Marine pollutant (Zinc Pyrithione, Zinc Oxide)

Section 14. Transport information					
Transport hazard class(es)	-	-	-	9 	9 
Packing group	-	-	-	III	III
Environmental hazards	No.	No.	No.	Yes.	Yes.
Additional information	-	-	-	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Emergency schedules F-A, S-F

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 2-Methyl-4-isothiazolin-3-one;
5-Chloro-2-methylisothiazolinone

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 15. Regulatory information

International regulations

International lists

- : **Australia inventory (AIC)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory (CSCL)**: Not determined.
- Japan inventory (ISHL)**: Not determined.
- Korea inventory (KECI)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Thailand inventory**: Not determined.
- Turkey inventory**: Not determined.
- Vietnam inventory**: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	1
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 1A	Calculation method

History

Date of printing : 1/27/2023

Date of issue/Date of revision : 1/27/2023

Date of previous issue : 12/1/2022

Version : 21.02

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

▣ Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

A8W151

Section 1. Identification

Product name : A-100® Exterior Acrylic Latex Gloss
Extra White

Product code : A8W151

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number : US / Canada: 1-800-474-3794
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Suspected of causing cancer.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.

Response : IF exposed or concerned: Get medical advice or attention.

Storage : Store locked up.

Section 2. Hazards identification

- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Zinc Oxide	≤3	1314-13-2
Heavy Paraffinic Oil	≤1	64742-65-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.

Section 4. First aid measures

- Inhalation** : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions :

Section 6. Accidental release measures

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	ACGIH TLV (United States, 3/2020). TWA: 10 mg/m ³ 8 hours.
Zinc Oxide	1314-13-2	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2016). CEIL: 15 mg/m ³ Form: Dust TWA: 5 mg/m ³ 10 hours. Form: Dust and fumes

Section 8. Exposure controls/personal protection

Heavy Paraffinic Oil	64742-65-0	<p>STEL: 10 mg/m³ 15 minutes. Form: Fume OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2020). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction</p> <p>OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 3/2020). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist</p>
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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	<p>CA British Columbia Provincial (Canada, 1/2020). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>
Zinc Oxide	1314-13-2	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form: Respirable CA British Columbia Provincial (Canada, 1/2020). TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction. STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction. CA Quebec Provincial (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. Form: fume STEV: 10 mg/m³ 15 minutes. Form: fume CA Saskatchewan Provincial (Canada, 7/2013).</p>

Section 8. Exposure controls/personal protection

STEL: 10 mg/m³ 15 minutes. Form: respirable dust and fume
TWA: 2 mg/m³ 8 hours. Form: respirable dust and fume

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Zinc Oxide	1314-13-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 9
Melting point/freezing point	: Not available.
Boiling point/boiling range	: 100°C (212°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 0.09 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 2.3 kPa (17.5 mm Hg) [at 20°C]
Vapor density	: 1 [Air = 1]
Relative density	: 1.16
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
<u>Aerosol product</u>	
Heat of combustion	: 1.155 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Heavy Paraffinic Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Heavy Paraffinic Oil	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide Zinc Oxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute IC50 46 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Zinc Oxide	-	28960	high

Mobility in soil





Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	UN3082	UN3082
UN proper shipping name	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide, Zinc Pyrithione)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide, Zinc Pyrithione). Marine pollutant (Zinc Oxide, Zinc Pyrithione)
Transport hazard class(es)	-	-	-	9  	9  
Packing group	-	-	-	III	III
Environmental hazards	No.	No.	No.	Yes.	Yes.

Section 14. Transport information

Additional information	-	-	-	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules</u> F-A, S-F
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Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

SARA 313
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations
International lists :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory (ENCS)**: Not determined.
- Japan inventory (ISHL)**: Not determined.
- Korea inventory (KECI)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Thailand inventory**: Not determined.
- Turkey inventory**: Not determined.
- Vietnam inventory**: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	1
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method

History

Date of printing : 11/5/2020

Date of issue/Date of revision : 11/5/2020

Date of previous issue : 10/15/2020

Version : 15.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs

Section 16. Other information

obtained from any other source.

SAFETY DATA SHEET

B51W620

Section 1. Identification

Product name : PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer
White

Product code : B51W620

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: 1-800-474-3794
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Section 2. Hazards identification

- Response** : IF exposed or concerned: Get medical advice or attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
- Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Talc	≤10	14807-96-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Talc	14807-96-6	ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles NIOSH REL (United States, 10/2020). TWA: 2 mg/m ³ 10 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	CA British Columbia Provincial (Canada, 3/2022). TWA: 10 mg/m ³ 8 hours. Form: Total dust TWA: 3 mg/m ³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2021). TWA EV: 10 mg/m ³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.
talc (none asbestiform)	14807-96-6	CA British Columbia Provincial (Canada, 3/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2021). TWA EV: 2 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m ³ 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours. CA Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

7/2013).

TWA: 2 mg/m³ 8 hours. Form: respirable fraction

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
None.		

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 8.8
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 0.09 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.31
Solubility(ies)	:

Media	Result
cold water	Partially soluble

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 0.383 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Talc	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Talc	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	inhalation	lungs

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Section 11. Toxicological information

- Inhalation** : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 5(a)2 proposed significant new use rules: 2-Methyl-4-isothiazolin-3-one; 5-Chloro-2-methylisothiazolinone

TSCA 5(a)2 final significant new use rules: Sodium Nitrite

[List name](#) [Chemical name](#) [Notes](#)

United States - TSCA 5(a) Sodium Nitrite
2 - Final significant new use rules

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

[SARA 313](#)

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

[California Prop. 65](#)

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

[International regulations](#)

[International lists](#)

: **Australia inventory (AIC):** Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

[Hazardous Material Information System \(U.S.A.\)](#)

Health	*	3
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

[Procedure used to derive the classification](#)

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

[History](#)

Date of printing : 2/22/2023

Date of issue/Date of revision : 2/22/2023

Section 16. Other information

Date of previous issue	: 11/26/2022
Version	: 21.02
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.


SAFETY DATA SHEET

B66W1310

Section 1. Identification

Product name	: PRO INDUSTRIAL™ PRO-CRYL® Universal Acrylic Primer Off White
Product code	: B66W1310
Other means of identification	: Not available.
Product type	: Liquid.
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: (800) 524-5979 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A
<u>GHS label elements</u>	
Hazard pictograms	: 
Signal word	: Danger
Hazard statements	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer.
<u>Precautionary statements</u>	

Section 2. Hazards identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
- Response** : IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.
- This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
- Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Calcium Carbonate	≥10 - <20	1317-65-3
Titanium Dioxide	≤10	13463-67-7
Polypropylene glycol alkyl phenyl ether	≤1	9064-13-5
Light Aliphatic Hydrocarbon	≤0.3	64742-47-8
Cristobalite, respirable powder	≤0.3	14464-46-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Calcium Carbonate	1317-65-3	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2020). [calcium carbonate] TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles None.
Polypropylene glycol alkyl phenyl ether Light Aliphatic Hydrocarbon	9064-13-5 64742-47-8	ACGIH TLV (United States, 1/2022). [Kerosene] Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Cristobalite, respirable powder	14464-46-1	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / 2 x (%SiO ₂ +5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / 2 x (%SiO ₂ +2) 8 hours. Form: Respirable TWA: 30 mg/m ³ / 2 x (%SiO ₂ +2) 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). [Silica,

Section 8. Exposure controls/personal protection

		<p>crystalline] TWA: 50 µg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE] TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</p>
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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	<p>CA British Columbia Provincial (Canada, 3/2022). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2021). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>
Petroleum refining, hydrotreated light distillate	64742-47-8	<p>CA British Columbia Provincial (Canada, 3/2022). [Kerosene/Jet fuels] Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 6/2018). [Kerosene/Jet fuels] Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</p>
Cristobalite	14464-46-1	<p>CA British Columbia Provincial (Canada, 3/2022). [Silica, Crystalline - alpha quartz and Cristobalite] TWA: 0.025 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2021). TWAEV: 0.05 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019).</p>

Section 8. Exposure controls/personal protection

TWA: 0.05 mg/m³ 8 hours. Form: Respirable particulate matter.

CA Saskatchewan Provincial (Canada, 7/2013).

TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
None.		

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 9.1
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 100°C (212°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 0.09 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: 2.3 kPa (17.5 mm Hg)
Relative vapor density	: 1 [Air = 1]
Relative density	: 1.21
Solubility(ies)	:

Media	Result
cold water	Partially soluble

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 1.267 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide Cristobalite, respirable powder	- -	2B 1	- Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Calcium Carbonate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Cristobalite, respirable powder	Category 1	inhalation	respiratory tract

Aspiration hazard

Name	Result
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Light Aliphatic Hydrocarbon	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days

Persistence and degradability

Not available.

Bioaccumulative potential

Section 12. Ecological information

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Section 14. Transport information

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 5(a)2 proposed significant new use rules:** 2-Methyl-4-isothiazolin-3-one; 5-Chloro-2-methylisothiazolinone

TSCA 5(a)2 final significant new use rules: Sodium Nitrite

[List name](#) [Chemical name](#) [Notes](#)

United States - TSCA 5(a) 2 - Final significant new use rules
Sodium Nitrite

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

[SARA 313](#)

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

[California Prop. 65](#)

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

[International regulations](#)

International lists

Australia inventory (AIC): Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

[Hazardous Material Information System \(U.S.A.\)](#)

Health	*	2
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method

History

Date of printing : 1/23/2023

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Version : 22.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

📌 Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.


SAFETY DATA SHEET

B53W2151

Section 1. Identification

Product name	: PRO INDUSTRIAL™ Waterbased Alkyd Urethane Semi-Gloss Extra White
Product code	: B53W2151
Other means of identification	: Not available.
Product type	: Liquid.
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Paint or paint related material.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: (800) 524-5979 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2
<u>GHS label elements</u>	
Hazard pictograms	: 
Signal word	: Warning
Hazard statements	: Suspected of causing cancer. Suspected of damaging fertility or the unborn child.
<u>Precautionary statements</u>	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.
Response	: IF exposed or concerned: Get medical advice or attention.

Section 2. Hazards identification

- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
- This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
- Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol	≤0.3	77-99-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Section 4. First aid measures

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
 - metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol	77-99-6	None.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Titanium dioxide	13463-67-7	CA British Columbia Provincial (Canada, 3/2022). TWA: 10 mg/m ³ 8 hours. Form: Total dust TWA: 3 mg/m ³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2021). TWA _{EV} : 10 mg/m ³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
None.		

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 8.8
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 0.09 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : 2.3 kPa (17.5 mm Hg)
- Relative vapor density** : 1 [Air = 1]
- Relative density** : 1.31
- Solubility(ies)** :
Not available.

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 0.771 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Reproductive toxicity

Section 11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Section 11. Toxicological information

- Mutagenicity** : No known significant effects or critical hazards.
Teratogenicity : Suspected of damaging the unborn child.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Acute EC50 13000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	-	<1	low

Mobility in soil

- Soil/water partition coefficient (K_{oc})** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

Section 13. Disposal considerations

- Disposal methods** : **This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

Section 13. Disposal considerations

and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 5(a)2 proposed significant new use rules:** 2-Methyl-4-isothiazolin-3-one; 5-Chloro-2-methylisothiazolinone
TSCA 5(a)2 final significant new use rules: Sodium Nitrite; Chlorodiazocarboxylate

List name	Chemical name	Notes
United States - TSCA 5(a) 2 - Final significant new use rules	Sodium Nitrite	
United States - TSCA 5(a) 2 - Final significant new use rules	Chlorodiazocarboxylate	

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

[SARA 313](#)

Section 15. Regulatory information

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

[California Prop. 65](#)

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

[International regulations](#)

International lists

- : **Australia inventory (AIIIC):** Not determined.
- China inventory (IECSC):** Not determined.
- Japan inventory (CSCL):** Not determined.
- Japan inventory (ISHL):** Not determined.
- Korea inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand inventory:** Not determined.
- Turkey inventory:** Not determined.
- Vietnam inventory:** Not determined.

Section 16. Other information

[Hazardous Material Information System \(U.S.A.\)](#)

Health	*	0
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

[Procedure used to derive the classification](#)

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method

[History](#)

Date of printing : 11/27/2022

Date of issue/Date of revision : 11/27/2022

Date of previous issue : 9/22/2022

Version : 12

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available

Section 16. Other information


SGG = Segregation Group
UN = United Nations

✔ Indicates information that has changed from previously issued version.

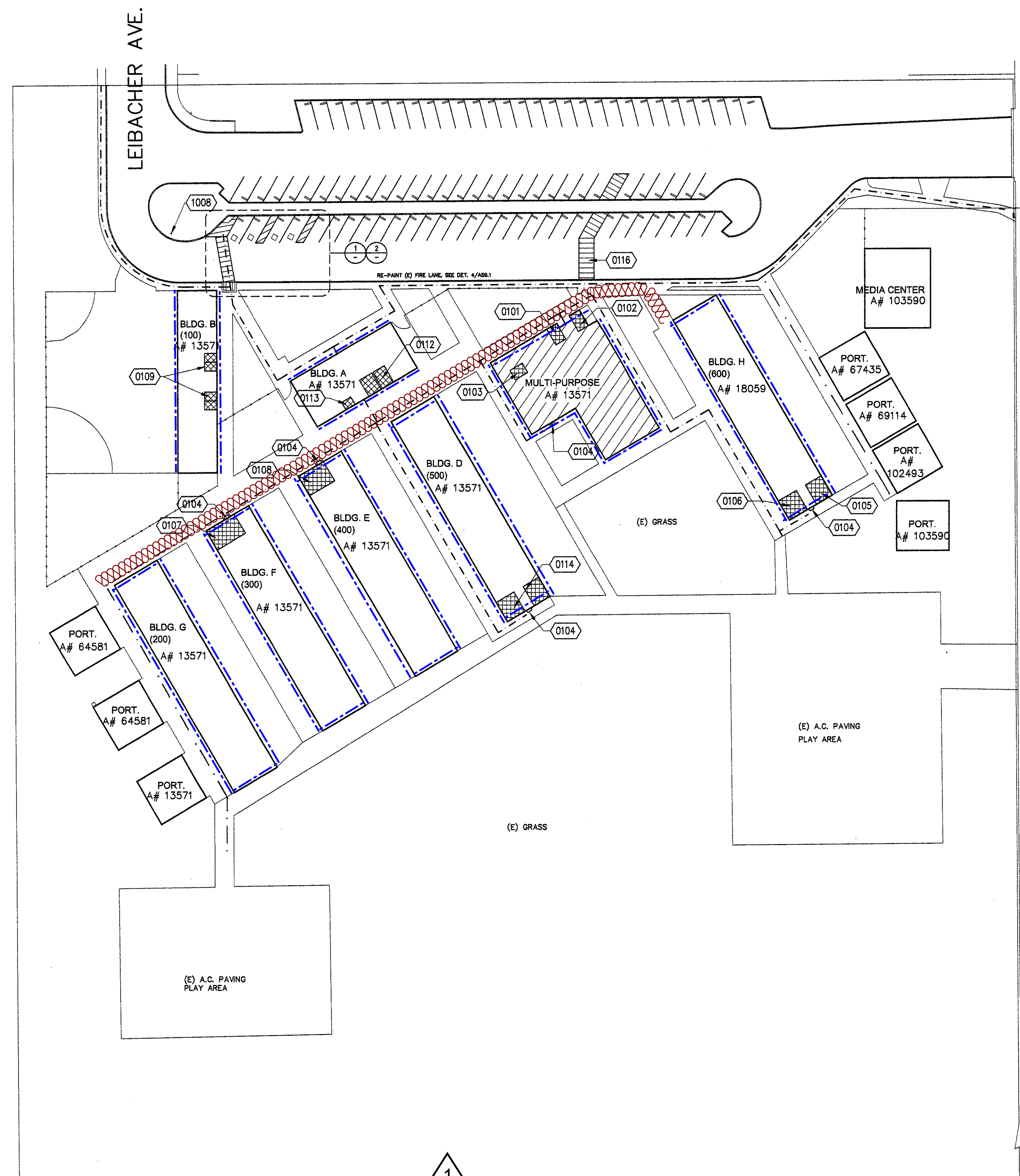
Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

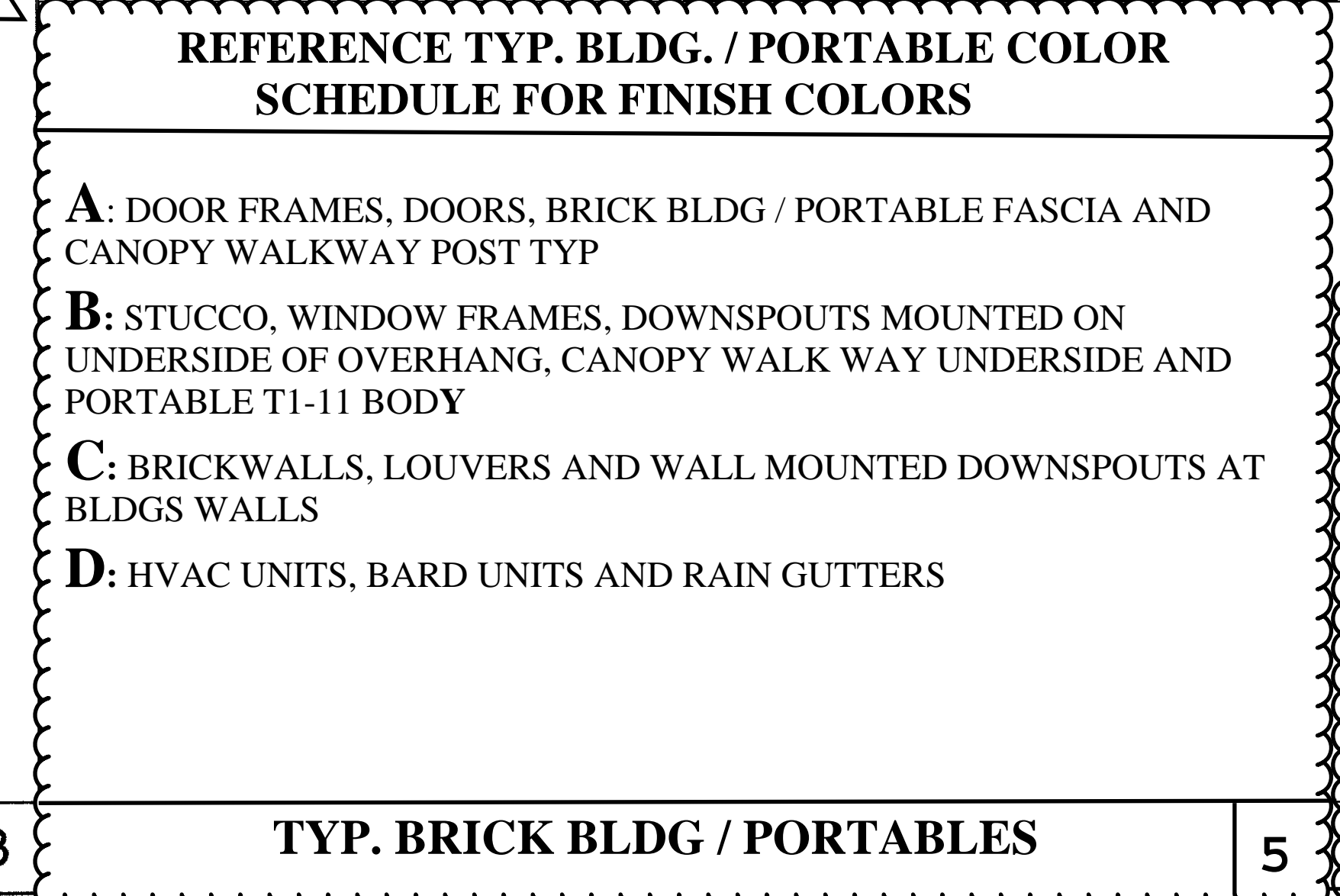
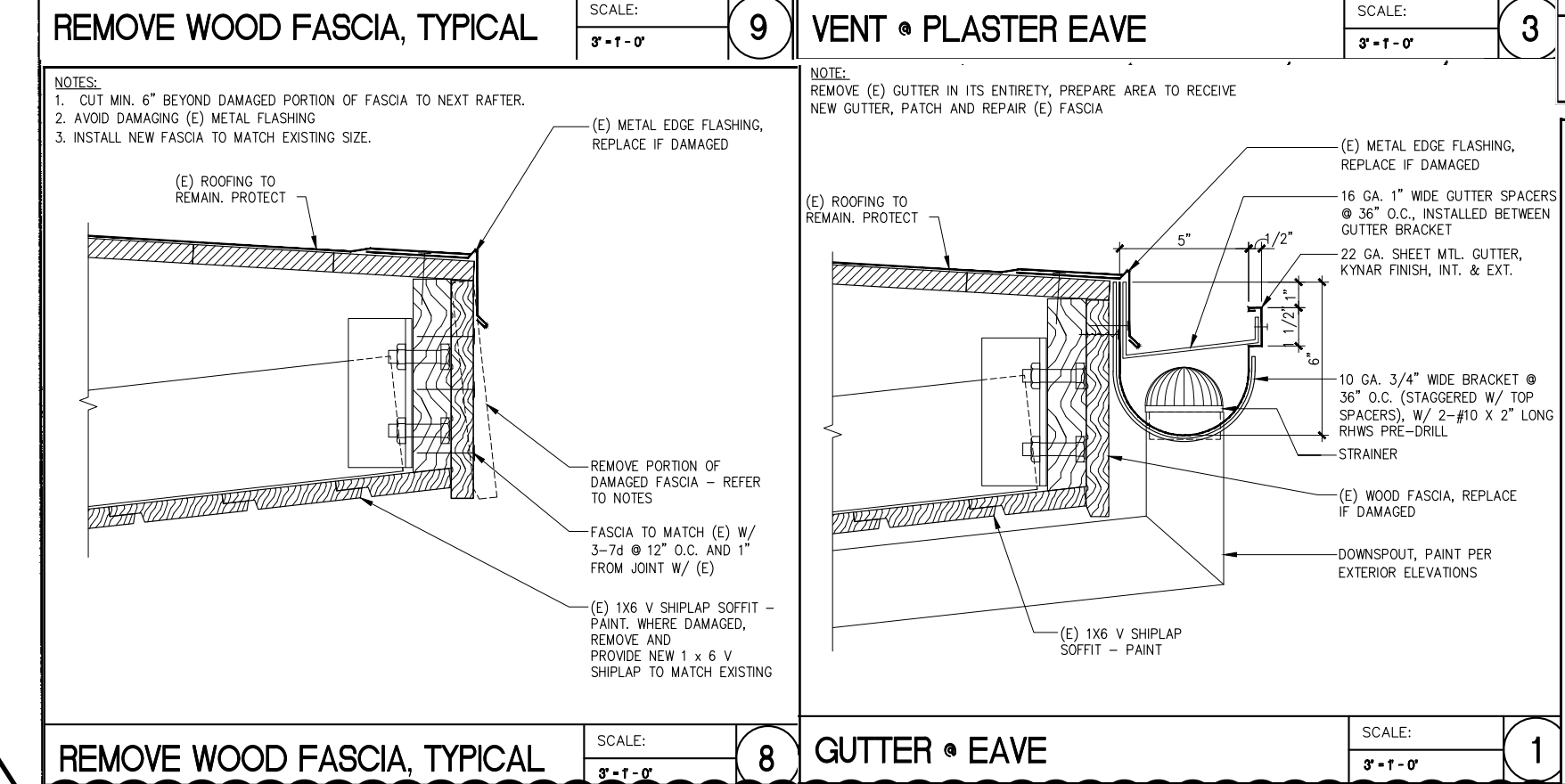
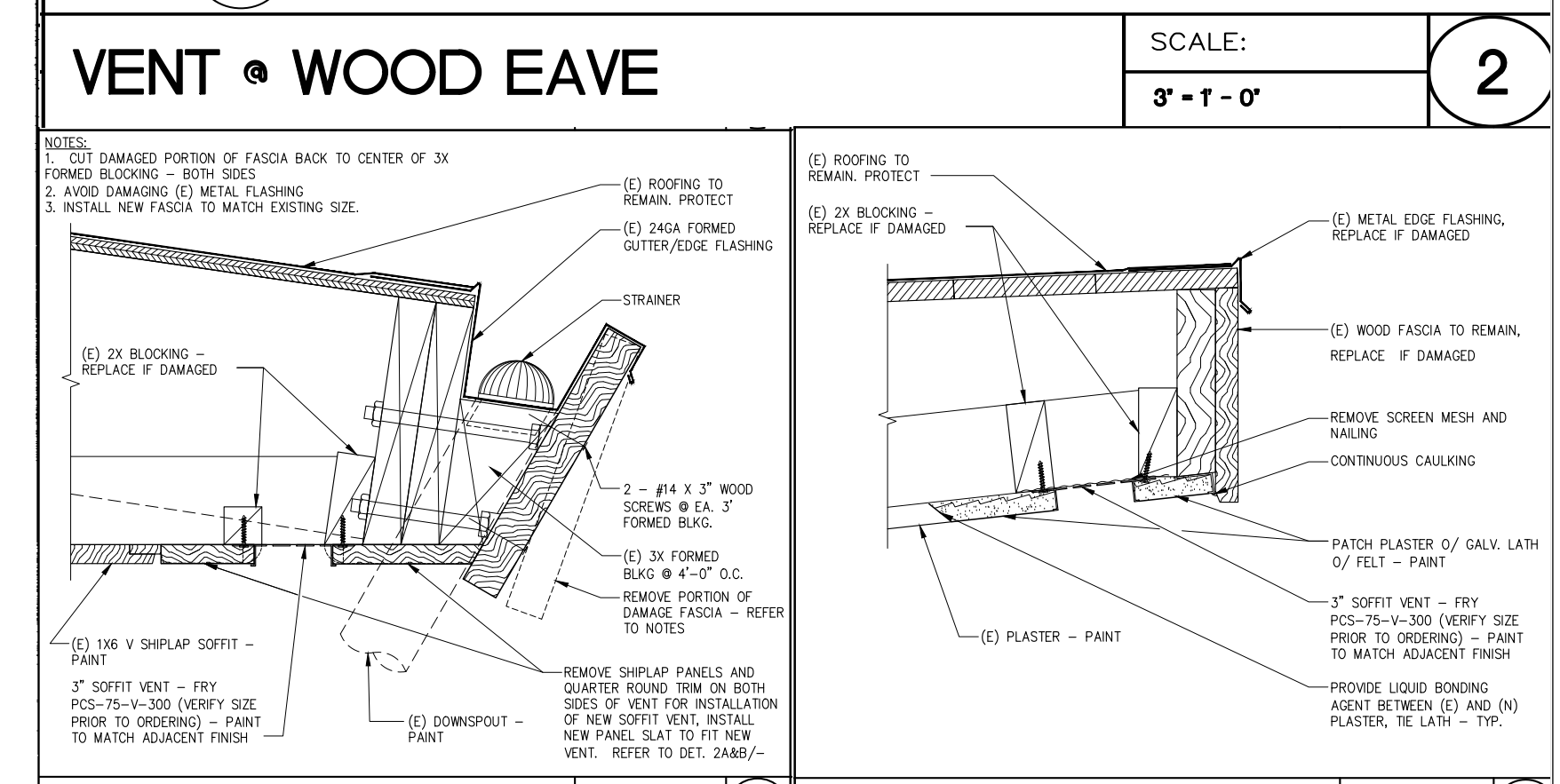
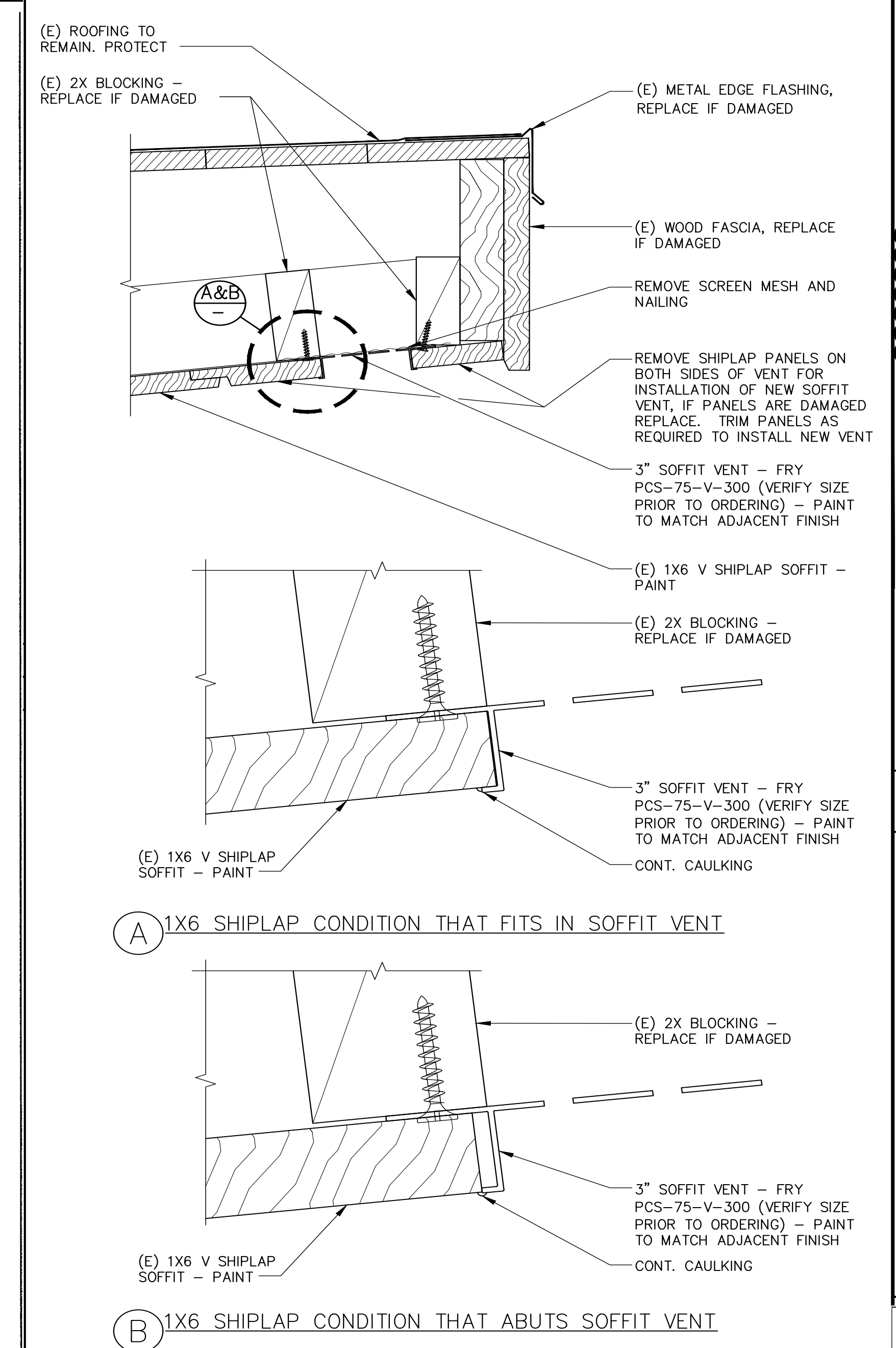
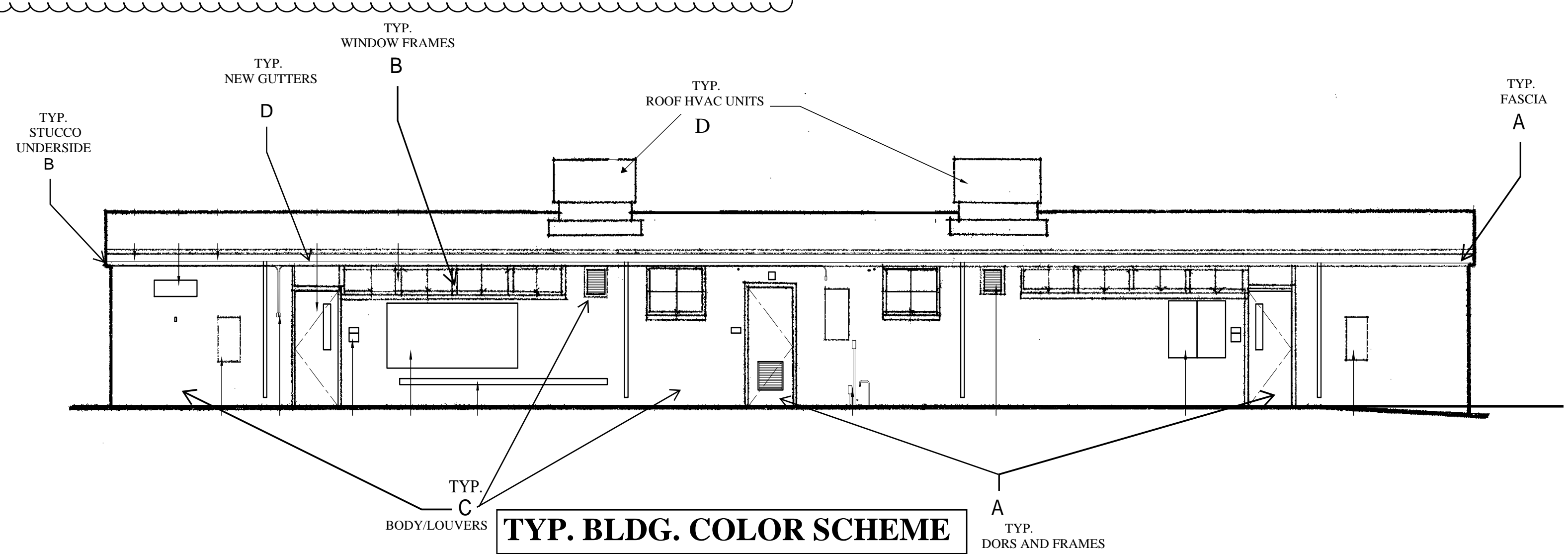
**NEW 2X FASCIA
PREP/PAINWALKWAY
AND POST**



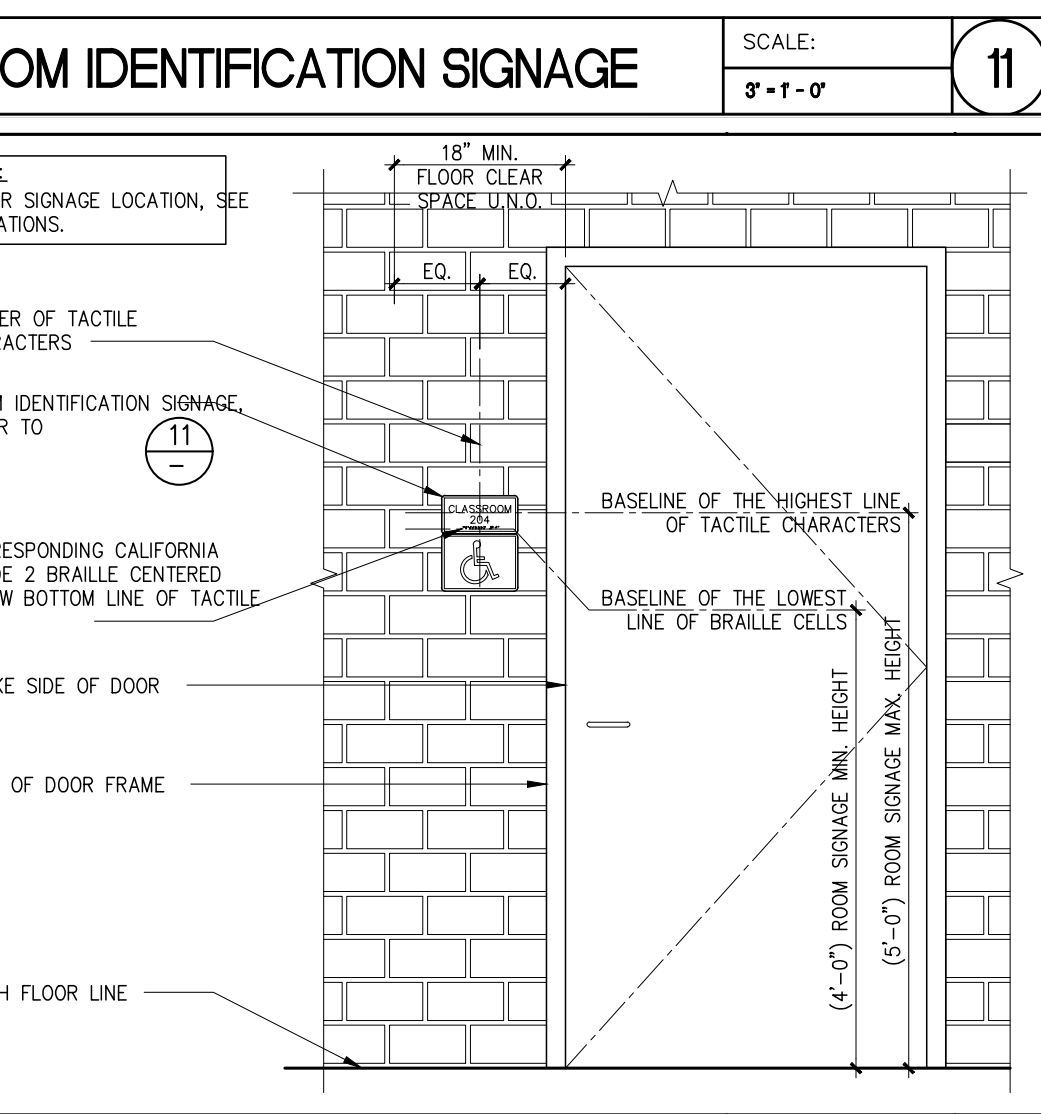
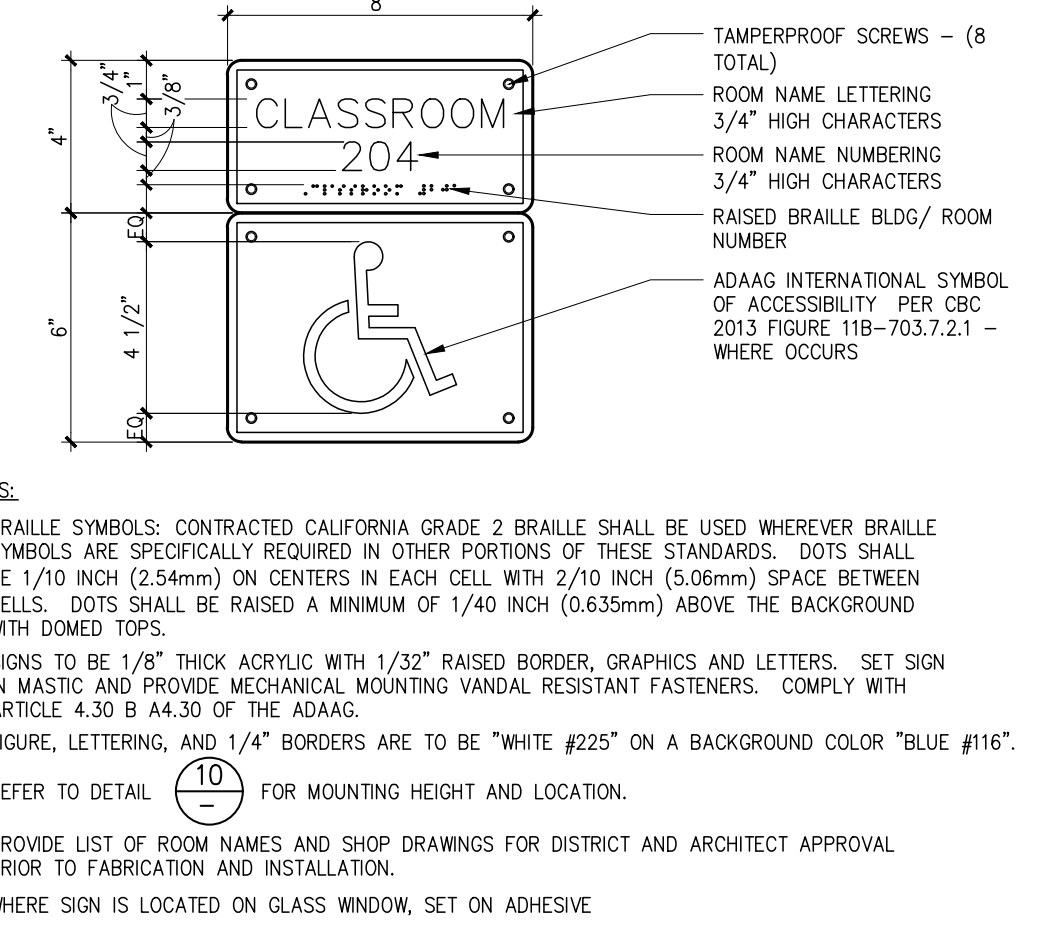
UNDERSIDE OF CANOPY WALKWAYS THAT CURRENTLY HAVE EXISTING TEXTURE SHALL NOT BE DISTURBED. REFERENCE WORK SCOPE SPECIAL CONDITIONS #2



- A: ACCENT COLOR - SHERWIN WILLIAMS DET574 JAZZ AGE BLUES - PRO INDUSTRIAL SEMI GLOSS
- B: BASE COLOR DUNN EDWARDS - THATCHED ROOF DE6177 FLAT
- C: BRICK WALL RED SHERWIN WILLIAMS - MATCH BRICK RED - PRO INDUSTRIAL SEMI GLOSS
- D: RAIN GUTTERS / HVAC UNITS - SHERWIN WILLIAMS GREY BRONZ - PRO INDUSTRIAL SEMI GLOSS



- TYP. PAINTING + CONSTRUCTION NOTES**
1. PRESSURE WASH ALL EXTERIOR SURFACES PRIOR TO PREPERATION FOR NEW FINISH
 2. COMPLETELY REMOVE APPROX. 2,500' LNFT OF (E) FASCIA AND INSTALL APPROX. 2,500' LNFT OF NEW 2X WINDSOR ONE WOOD FASCIA S1S2E FASTENED WITH 16D NAILS. NAIL HOLES TO BE SEALED AND PAINTED OVER
 3. REMOVE APPROX 2500 LNFT OF METAL EDGE ROOF FLASHING AND INSTALL 2500 LNFT OF NEW ROOF FLASHING
 4. REMOVE APPROX 2000 LNFT OF VENT SCREEN AND INSTALL APPROX 2000 LNFT OF NEW VENT SCREEN PER DETAILS
 5. REMOVE (E) AND INSTALL (N) APPROX 2500' LNFT OF NEW 22GA SHEET MTL. GUTTER
 6. REMOVE (E) DOWNSPOUTS AND INSTALL APPROX 3 SCHDL 40 METAL DOWN SPOUTS FOR EA BLDG RECVING RAIN GUTTERS
 7. NEW GUTTERS AND DOWN SPOUTS TO BE KYNAR FINISH. NEW DOWN SPOUTS TO BE FIELD MEASURED / LAID OUT FOR MAXIMUM WATER DISBURSTMENT. MINIMUM 3 DOWN SPOUTS PER BLDG SIDE. (N) DOWN SPOUTS SHALL MATCH BACK COLOR OF MOUNTING LOCATION
 8. REMOVE (E) SIGNAGE. MATCH (E) SIGANGE AND INSTALL NEW BLDG SIGNAGE PER DETAILS
 9. PREP, ETCH AND CLEAN ROOF HVAC UNITS/BARD UNITS TO RECEIVE NEW PRIMER AND FINISH
 10. ALL CANOPY WALK WAY UNDERSIDE SHALL BE PRIMED AND PAINTED OVER EXISTING SPARYED TEXTURE, EXISTING TEXTURE SHALL NOT BE DISTURBED. ALL WALK WAY POST SHALL BE SCRAPPED AND PREPED TO RECEIVE NEW PRIMER AND FINISH PER THE COLOR SCHEDULE



- PAINTING AND PREP NOTES**
1. ALL BUILDINGS, SHADE STRUCTURES, APPARATUS AND PORTABLES SHOWN OR NOT THAT ARE WITHIN THE SITE SHALL BE PREPARED, PRIMED AND PAINTED PER THE COLOR SCHEDULE AND SPECIFICATIONS
 2. PROPER CLEANING, PRESSUERE WASHING OF GUNK, GUM, MELDEW ETC. SHALL BE THOROUGHLY PERFORMED PRIOR TO PRIMER AND PAINT
 3. ALL CRACKS, CONTROL LINES, EXPANSION JOINTS AND WINDOW FRAMES SHALL BE SEALED USING SPECIFIED / APPROVED MATERIALS
 4. EXISTING PORTABLES ONSITE SHALL RECEIVE PREP, PRIMER AND TWO COATS OF FINISH AT EXTERIOR. REFERENCE COLOR SCHEDULE

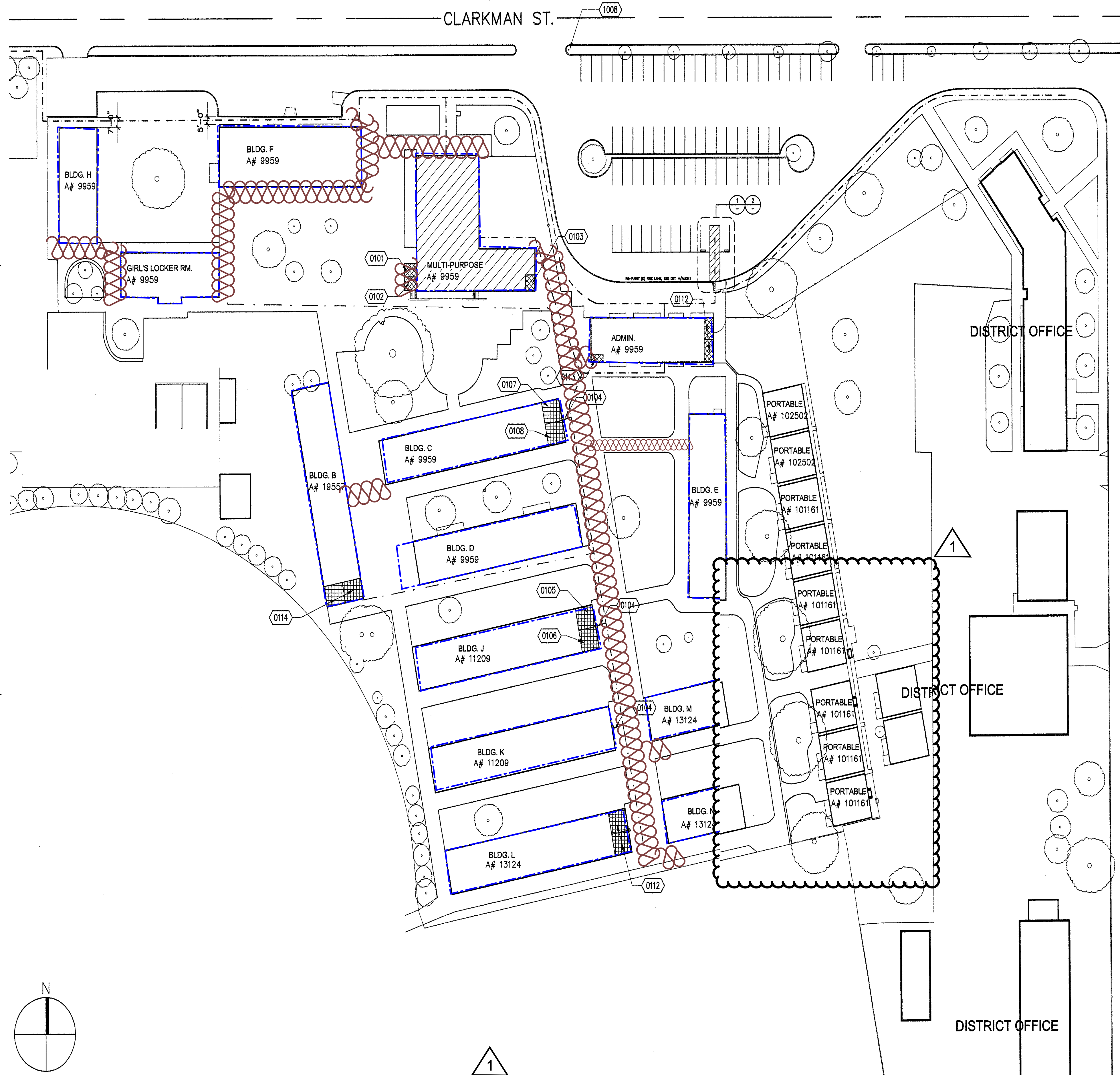
2023 Painting Group #1
Studebaker Elementary School
11800 Halcourt Ave
Norwalk CA, 90650

ADDENDUM NO. 1
OVERALL SITE PLAN & DETAILS
DRAWING NUMBER: **SES.1**

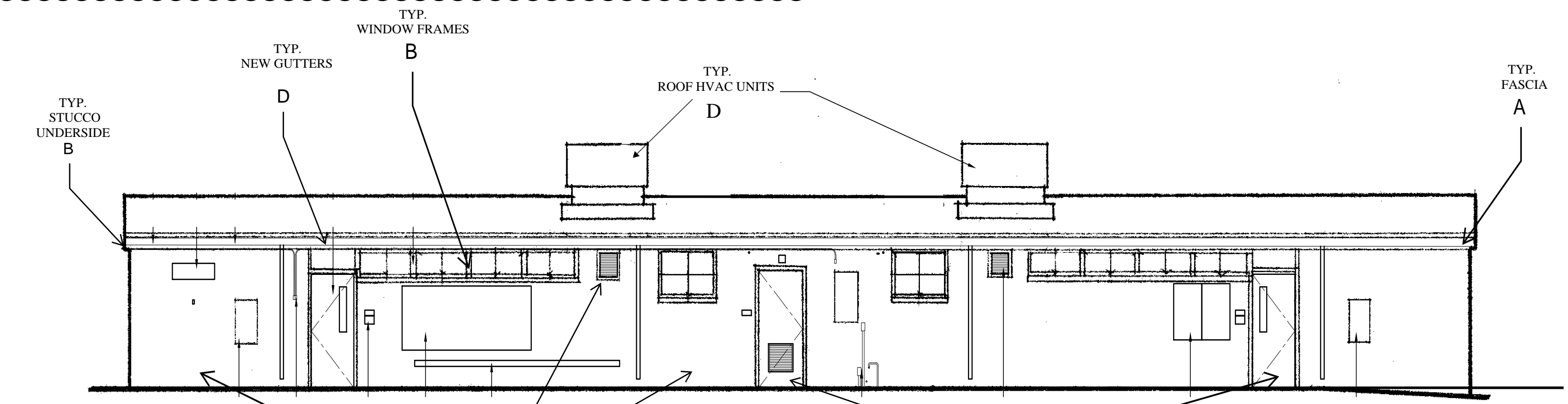
**NEW 2X FASCIA
PREP/PAIN WALKWAY
AND POST**



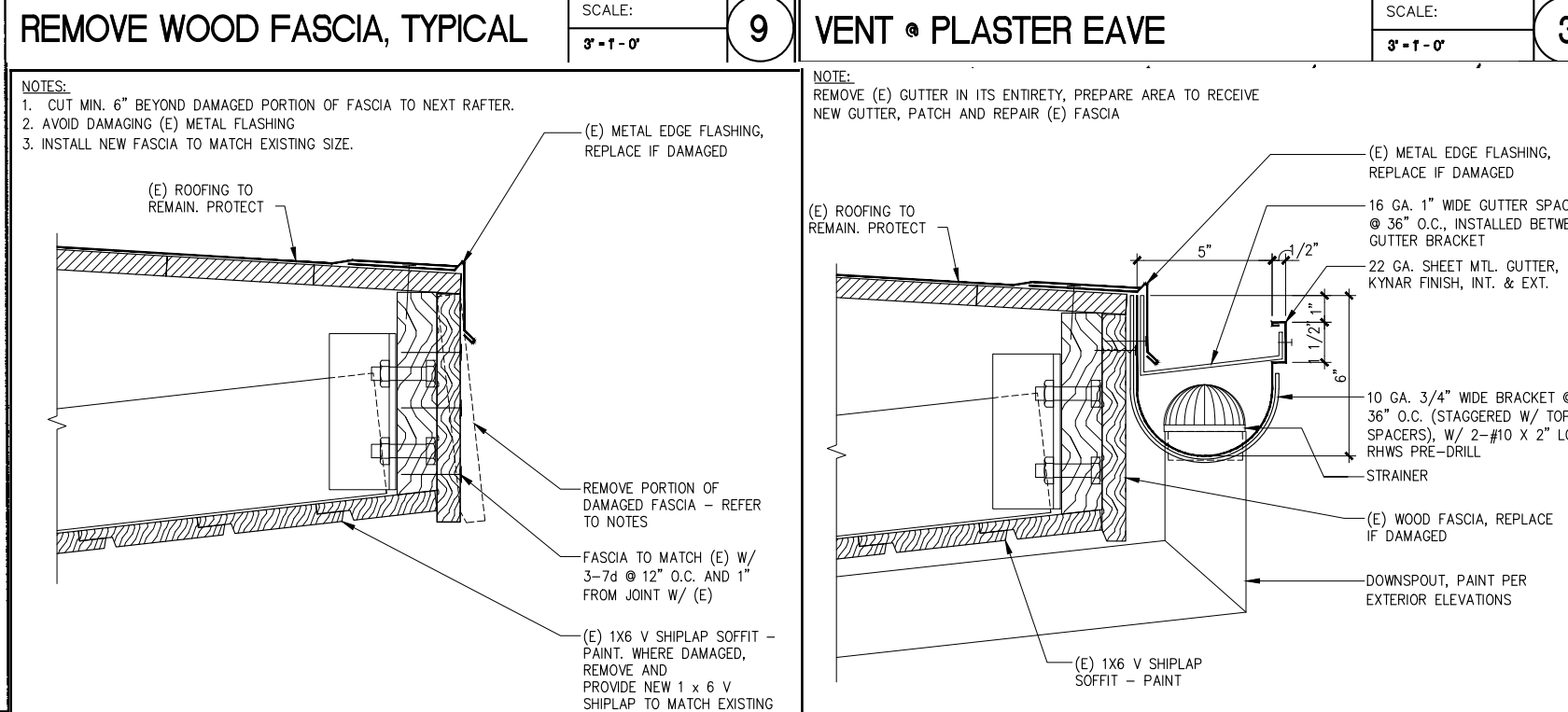
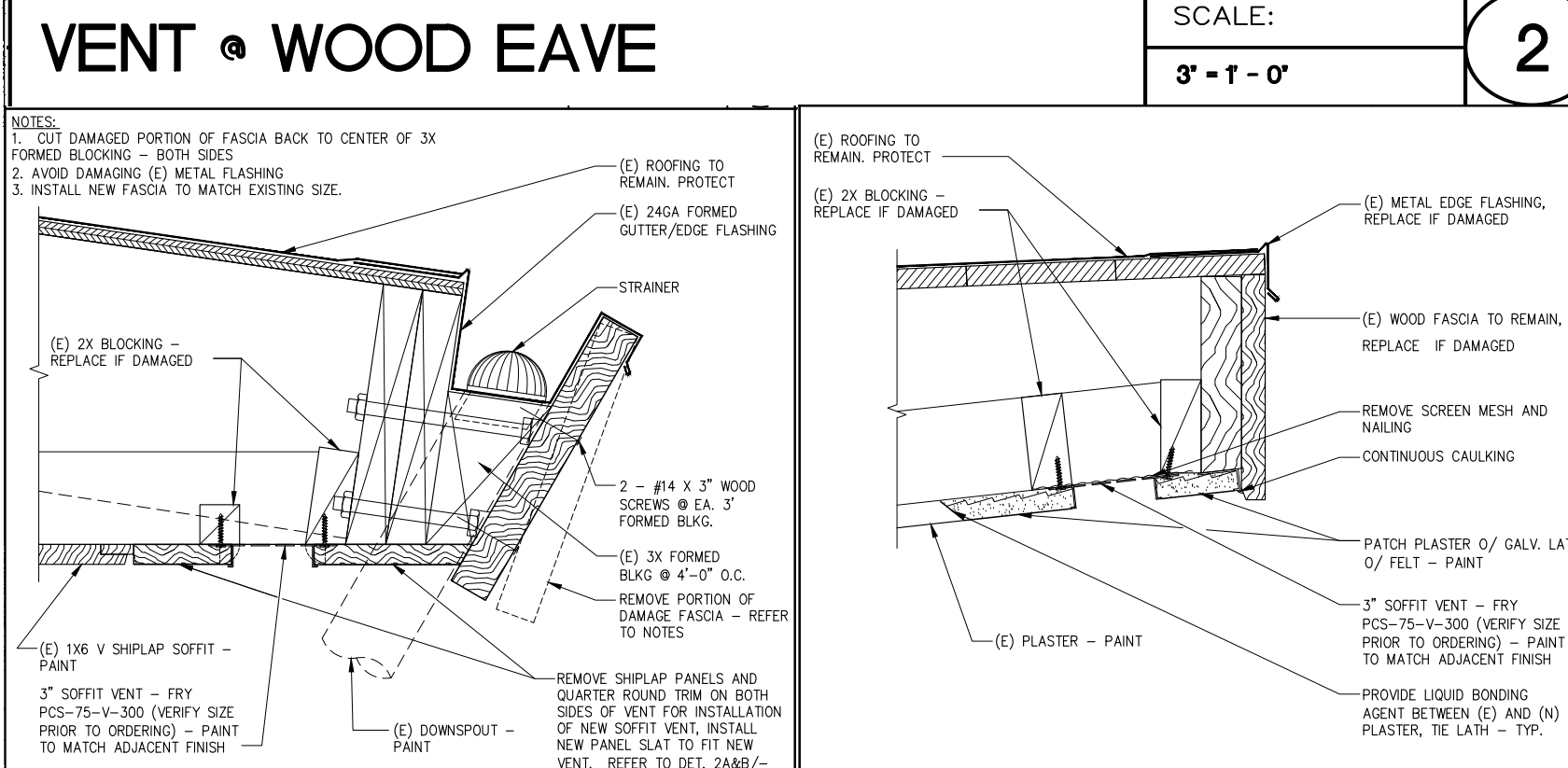
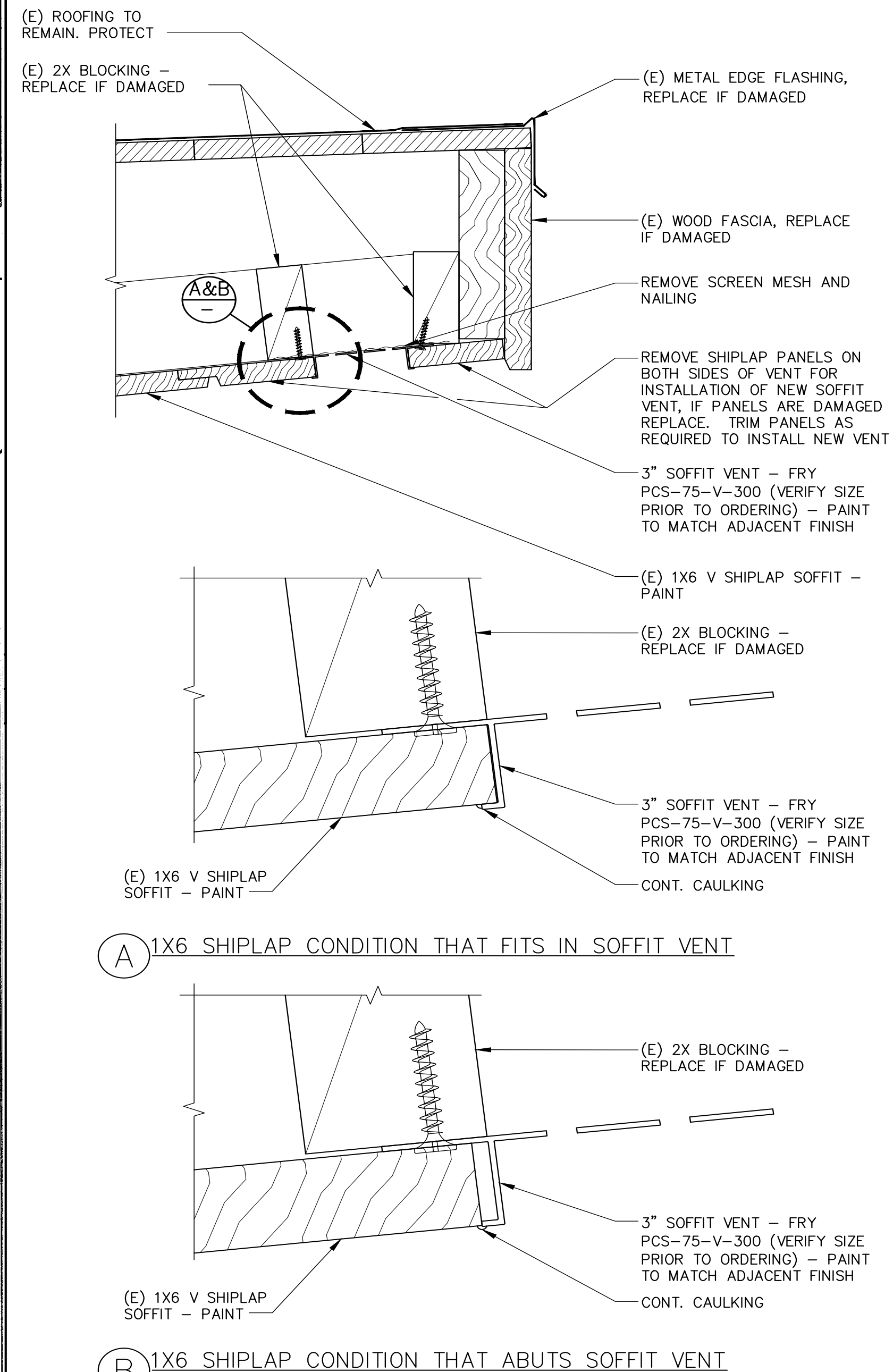
UNDERSIDE OF CANOPY WALKWAYS THAT CURRENTLY HAVE EXISTING TEXTURE SHALL NOT BE DISTURBED. REFERENCE WORK SCOPE SPECIAL CONDITIONS #52



- A. ACCENT COLOR - SHERWIN WILLIAMS DETS74 JAZZ AGE BLUES - PRO INDUSTRIAL SEMI GLOSS
- B. BASE COLOR DUNN EDWARDS - THATCHED ROOF DE6177 FLAT
- C. BRICK WALL RED SHERWIN WILLIAMS - MATCH BRICK RED - PRO INDUSTRIAL SEMI GLOSS
- D. RAIN GUTTERS / HVAC UNITS - SHERWIN WILLIAMS GREY BRONZ - PRO INDUSTRIAL I SEMI GLOSS



TYP. BLDG. COLOR SCHEME



REFERENCE TYP. BLDG. / PORTABLE COLOR SCHEDULE FOR FINISH COLORS

A: DOOR FRAMES, DOORS, BRICK BLDG / PORTABLE FASCIA AND CANOPY WALKWAY POST TYP

B: STUCCO, WINDOW FRAMES, DOWNSPOUTS MOUNTED ON UNDERSIDE OF OVERHANG, CANOPY WALKWAY UNDERSIDE AND PORTABLE T1-11 BODY

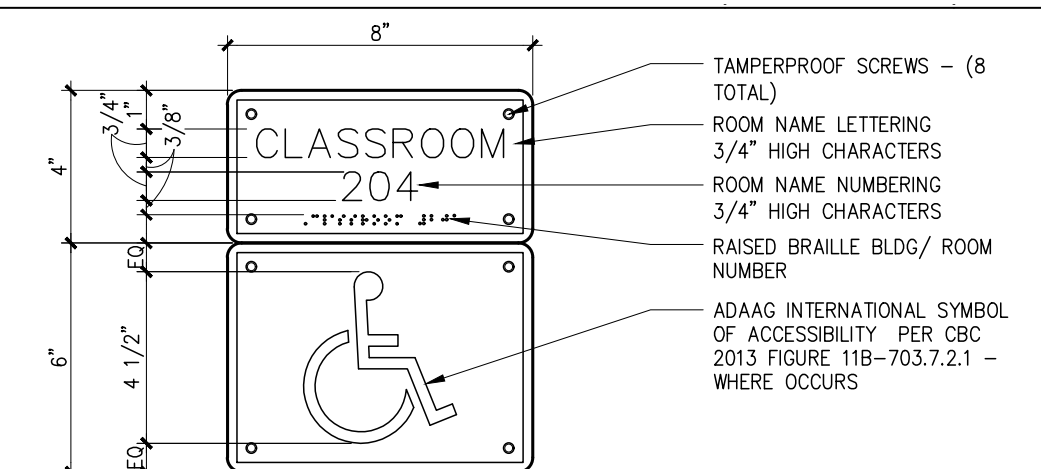
C: BRICK WALLS, LOUVERS AND WALL MOUNTED DOWNSPOUTS AT BLDGS WALLS

D: HVAC UNITS, BARD UNITS AND RAIN GUTTERS

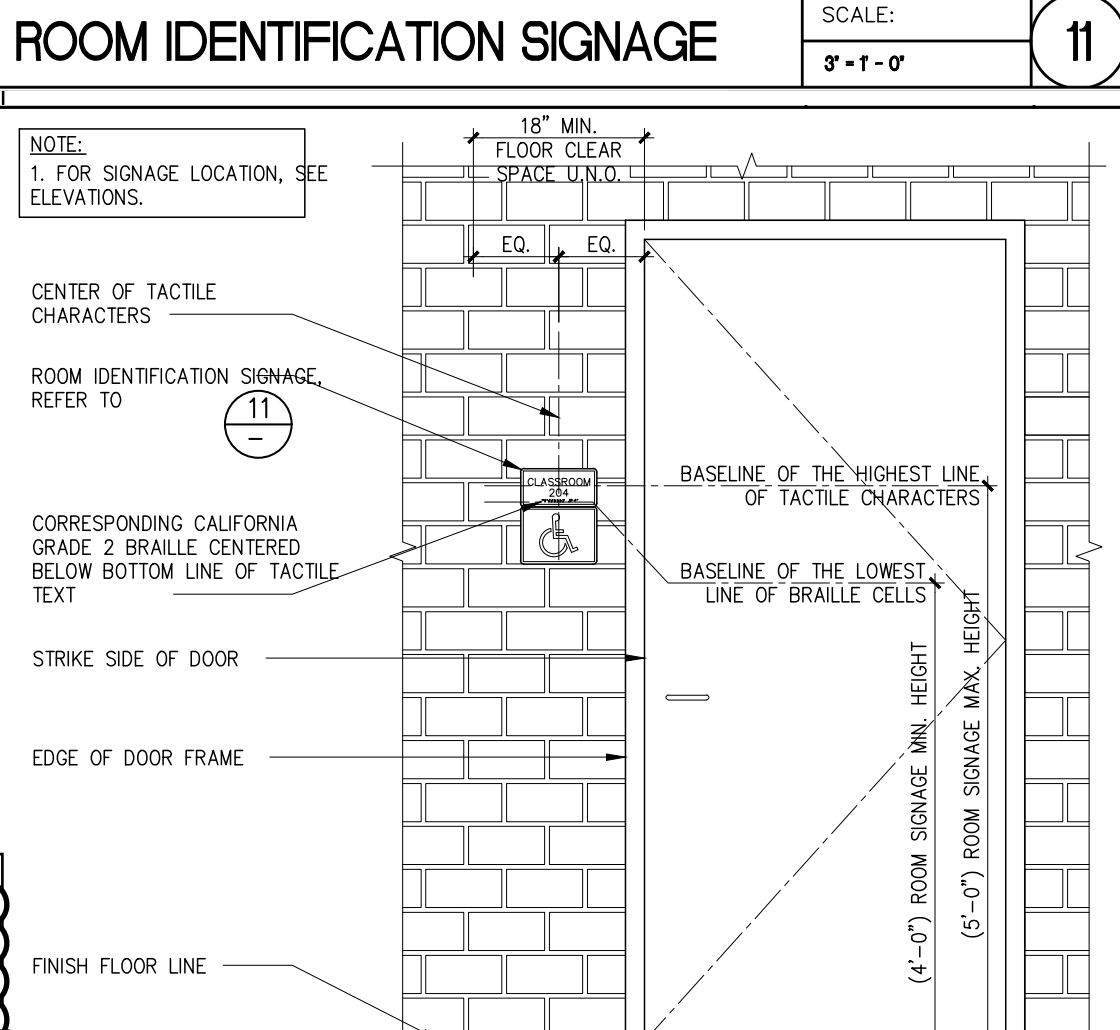
TYP. BRICK BLDG / PORTABLES

TYP. PAINTING + CONSTRUCTION NOTES

1. PRESSURE WASH ALL EXTERIOR SURFACES PRIOR TO PREPERATION FOR NEW FINISH
2. COMPLETELY REMOVE APPROX. 4,500' LNFT OF (E) FASCIA AND INSTALL APPROX. 4,500' LNFT OF NEW 2X WINDSOR ONE WOOD FASCIA S1S2E FASTENED WITH 16D NAILS. NAIL HOLES TO BE SEALED AND PAINTED OVER
3. REMOVE APPROX 4,500 LNFT OF METAL EDGE ROOF FLASHING AND INSTALL 4,500 LNFT OF NEW ROOF FLASHING
4. REMOVE APPROX 3,000 LNFT OF VENT SCREEN AND INSTALL APPROX 3,000 LNFT OF NEW VENT SCREEN PER DETAILS
5. REMOVE (E) AND INSTALL (N) APPROX: 2,000' LNFT OF NEW 22GA SHEET MTL. GUTTER
6. REMOVE (E) DOWNSPOUTS AND INSTALL APPROX 3 SCHDL 40 METAL DOWN SPOUTS FOR EA BLDG RECVING RAIN GUTTERS
7. NEW GUTTERS AND DOWN SPOUTS TO BE KYNAR FINISH. NEW DOWN SPOUTS TO BE FIELD MEASURED / LAID OUT FOR MAXIMUM WATER DISBURSTMENT. MINIMUM 3 DOWN SPOUTS PER BLDG SIDE.(N) DOWN SPOUTS SHALL MATCH BACK COLOR OF MOUNTING LOCATION
8. REMOVE (E) SIGNAGE. MATCH (E) SIGANGE AND INSTALL NEW BLDG SIGNAGE PER DETAILS
9. PREP, ETCH AND CLEAN ROOF HVAC UNITS/BARD UNITS TO RECEIVE NEW PRIMER AND FINISH
10. ALL CANOPY WALK WAY UNDERSIDE SHALL BE PRIMED AND PAINTED OVER EXISTING SPARYED TEXTURE, EXISTING TEXTURE SHALL NOT BE DISTURBED. ALL WALK WAY POST SHALL BE SCRAPPED AND PREPED TO RECEIVE NEW PRIMER AND FINISH PER THE COLOR SCHEDULE



- NOTES:**
1. BRAILLE SYMBOLS: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/16 INCH (2.54mm) ON CENTERS IN EACH CELL WITH 2/16 INCH (0.635mm) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635mm) ABOVE THE BACKGROUND WITH SLOPED TOPS.
 2. SIGNS TO BE 1/8\"/>



ELEVATION OF ROOM NAME AND NUMBER SIGNAGE

ALL BUILDINGS, SHADE STRUCTURES, APPARATUS AND PORTABLES SHOWN OR NOT THAT ARE WITHIN THE SITE SHALL BE PREPARED, PRIMED AND PAINTED PER THE COLOR SCHEDULE AND SPECIFICATIONS

PROPER CLEANING, PRESSURE WASHING OF GUNK, GUM, MELDEW ETC. SHALL BE THOROUGHLY PERFORMED PRIOR TO PRIMER AND PAINT

ALL CRACKS, CONTROL LINES, EXPANSION JOINTS AND WINDOW FRAMES SHALL BE SEALED USING SPECIFIED / APPROVED MATERIALS

EXISTING PORTABLES ONSITE SHALL RECEIVE PREP, PRIMER AND TWO COATS OF FINISH AT EXTERIOR. REFERENCE COLOR SCHEDULE

2023 Painting Group #1

Lake Center Middle School
10503 Pioneer Blvd
Santa Fe Springs CA, 90670

ADDENDUM NO. 1
OVERALL SITE PLAN & DETAILS

DRAWING NUMBER: **LCMS.1**



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

ASBESTOS INSPECTION REPORT

Conducted at:

LAKE CENTER MIDDLE SCHOOL
MODERNIZATION PROJECT
10503 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared for:

MR. JOHN SHOOK
DIRECTOR OF FACILITIES, MAINTENANCE AND OPERATIONS
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 14-Z0187-0003
January 22, 2014

Report assembled by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report generated/reviewed by:

Tim Galeana, CAC # 98-2470
Senior Project Manager
Executive Environmental

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APPENDICES

APPENDIX A – LABORATORY ANALYSIS REPORT

APPENDIX B – SITE DRAWING

APPENDIX C – EE'S REPORT NO. 12-Z01287-0187, DATED AUGUST 2012

ASBESTOS INSPECTION REPORT

Project Number: EE 14-Z0187-0003

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Lake Center Middle School
Modernization Project
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Use: School Property

Contact Person: Mr. John Shook
Director of Facilities, Maintenance and Operations
Phone: (562) 868-8241, ext. 247

Inspection Date: December 02 through 9, 2013 and January 21, 2014

Inspected By: Mr. Wilson Medina
Certified Site Surveillance Technician, # 98-2346

Mr. Rhys Kuzmic
Certified Asbestos Consultant, # 09-4586

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Site Surveillance Technician to conduct an asbestos inspection of the interior and exterior surfaces of the following buildings: Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California. The inspection was conducted as a precursor to the upcoming Modernization Project. Materials suspected of containing asbestos were sampled and analyzed for the presence of asbestos. Asbestos-containing materials (ACM) and asbestos-containing construction materials (ACCM) were identified during this inspection.

II. SAMPLING METHODOLOGY

A visual inspection of the Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 was conducted prior to the collection of any bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were collected. The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared, and the samples were delivered to the laboratory for analysis. Hygeia Laboratories, Incorporated, analyzed the samples using Polarized Light Microscopy (PLM). Hygeia Laboratories is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 102116-0, and is also accredited by the American Industrial Hygiene Association (AIHA), No. 465. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

Note: Inaccessible, suspect asbestos materials may be located within sealed ceilings, walls, or floors; or within wall cavities, interstitials, shafts, etc. Suspect asbestos materials located in these areas must be sampled prior to any activities that might cause them to be disturbed.

III. SAMPLE ANALYSIS

Two hundred eighty-five (285) suspect asbestos-containing samples were collected during this inspection. The laboratory analysis results are listed in the following table. Materials determined not to contain asbestos are listed as "No Asbestos Detected" (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered to be an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed, because the entire homogeneous area must be considered positive.

**Sampling results begin on the next page.
The remainder of this page is blank.**

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
300 Building^A						
HMN-01	Drywall	Rooms 301 through 304, electrical room, janitor room and heater room ceilings	4,500 SF	1401020003WWM-01	Room 301, southwest	NAD ^B
				1401020003WWM-02	Room 302, southeast	NAD
				1401020003WWM-03	Room 304, southwest	NAD
HMN-02	Blown-in insulation	Throughout plenums	5,000 SF	1401020003WWM-04	Room 304, southwest	NAD
				1401020003WWM-05	Room 302, southeast	NAD
HMN-03	12"x12" Fissured ceiling tile with glue	Room 301 through 304	4,000 SF	1401020003WWM-06	Room 301, southwest	NAD
				1401020003WWM-07	Room 301, southwest	NAD
				1401020003WWM-08	Room 302, southeast	NAD
HMN-04	HVAC duct joint	Room 304 plenum area	100 SF	1401020003WWM-09	Room 304, southeast	NAD
				1401020003WWM-10	Southeast	NAD
				1401020003WWM-11	Southeast	NAD
				1401020003WWM-12	Southeast	NAD

Note: This table must be used in conjunction with the entire report.

^A Note: 1) Interior wood walls. 2) Exterior wood ceilings. 3) Interior and exterior brick walls. 4) TSI fiberglass.

^B NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
300 Building						
HMN-05	Drywall joint compound	Electrical room, janitor room and heater room ceilings	500 SF	1401020003WWM-13	Electrical room, northwest	<1% chrysotile ^C
				1401020003WWM-14	Electrical room, southwest	<1% chrysotile
				1401020003WWM-15	Electrical room, east	1000-Pt. Ct.: <0.1% chrysotile
HMN-06	Vinyl basecove with glue	Rooms 301 through 304	480 SF	1401020003WWM-16	Room 302, northeast	1000-Pt. Ct.: <0.1% chrysotile
				1401020003WWM-17	Room 303, southwest	NAD ^D
				1401020003WWM-18	Room 304, southwest	NAD
HMN-07	9" x9" Floor tile and mastic	Rooms 301 through 304 (under carpet)	3,600 SF	1401020003WWM-19	Room 301, northwest	Tile: 5% chrysotile
				1401020003WWM-20	Room 303, northwest	Mastic: NAD
				1401020003WWM-21	Room 304, northeast	Tile: 5% chrysotile Mastic: NAD
HMN-08	Carpet glue	Rooms 301 through 304 (over 9" x9" floor tile)	3,600 SF	1401020003WWM-22	Room 301, northwest	Tile: 5% chrysotile
				1401020003WWM-23	Room 303, northwest	Mastic: NAD
				1401020003WWM-24	Room 304, northeast	Tile: 5% chrysotile Mastic: NAD

Note: This table must be used in conjunction with the entire report.

^C Samples 13 through 15 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the drywall joint compound is a non-regulated material.

^D NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
300 Building						
HMN-09	Window putty	Throughout exterior window frames	100 SF	1401020003WWM-25 1401020003WWM-26 1401020003WWM-27	Northeast Northwest South	NAD ^E NAD NAD
HMN-10	Roll roof (core sample)	Throughout roof	5,500 SF	1401020003WWM-28 1401020003WWM-29 1401020003WWM-30	East West South	NAD NAD NAD
HMN-11	Roof penetration mastic	Penetrations, seams and patches	100 SF	1401020003WWM-31 1401020003WWM-32 1401020003WWM-33	East West South	3% Chrysothile 3% Chrysothile NAD

Note: This table must be used in conjunction with the entire report.

**TABLES TO CONTINUE ON THE NEXT PAGE.
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^E NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Library Building^F						
HMN-12	2'x2' Random hole ceiling tile (nailed, no glue)	Library room	1,800 SF	1401020003WWM-34	West	NAD ^G
				1401020003WWM-35	Center	NAD
				1401020003WWM-36	East	NAD
HMN-13	Window putty	Throughout exterior	40 SF	1401020003WWM-37	Northwest	NAD
				1401020003WWM-38	Northeast	NAD
				1401020003WWM-39	Southeast	NAD
HMN-14	Carpet glue	Library room (over 9"x9" floor tile)	1,800 SF	1401020003WWM-40	North	NAD
				1401020003WWM-41	South	NAD
				1401020003WWM-42	East	NAD
HMN-15	9"x9" Floor tile and mastic	Library room (under carpet)	1,800 SF	1401020003WWM-43	South	Tile: 5% chrysotile Mastic: 5% chrysotile
				1401020003WWM-44	Northeast	Tile: 5% chrysotile Mastic: 5% chrysotile
				1401020003WWM-45	West	Tile: 5% chrysotile Mastic: 5% chrysotile

Note: This table must be used in conjunction with the entire report.

^F Note: 1) TSI fiberglass at plenum. 2) Interior and exterior brick walls. 3) Exterior wood ceilings.
^G NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Library Building						
HMN-16	Roll roof (core sample)	Rooftop	2,300 SF	1401020003WWM-46	West	NAD ^H
				1401020003WWM-47	East	NAD
				1401020003WWM-48	South	NAD
HMN-17	Penetration mastic	Seams, patches and penetrations	50 SF	1401020003WWM-49	West	NAD
				1401020003WWM-50	East	NAD
				1401020003WWM-51	South	NAD

Note: This table must be used in conjunction with the entire report.

**TABLES TO CONTINUE ON THE NEXT PAGE.
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^H NAD = "No Asbestos Detected"

Executive Environmental
 Asbestos Inspection Report

Lake Center MS – Modernization Project
 Project Number EE 14-Z0187-0003
 January 22, 2014

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
600 Building¹						
HMN-18	12"x12" Fissured ceiling tile with glue	Room 601 through 604	4,000 SF	1401060003WWM-52	Room 601, east	NAD ^J
				1401060003WWM-53	Room 602, east	NAD
				1401060003WWM-54	Room 604, west	NAD
HMN-19	Drywall (core sample)	Throughout building ceilings	4,500 SF	1401060003WWM-55	Room 604, east	NAD
				1401060003WWM-56	Room 602, west	NAD
				1401060003WWM-57	Room 601, west	NAD
HMN-20	Blown-in insulation	Throughout building plenums	4,500 SF	1401060003WWM-58	Room 604, east	NAD
				1401060003WWM-59	Room 602, west	NAD
				1401060003WWM-60	Room 601, west	NAD
HMN-21	Drywall joint compound	Janitor room, office, heater room and Psychologist ceilings	600 SF	1401060003WWM-61	Janitor room, south	<1% chrysotile ^K
				1401060003WWM-62	Psychologist, north	1000-Pt. Ct.:0.61% chrysotile
				1401060003WWM-63	Heater room, northeast	<1% chrysotile

Note: This table must be used in conjunction with the entire report.

¹ Note: 1) Interior and exterior brick walls. 2) Exterior wood ceilings. 3) No access to HVAC joint tape in plenum areas (fall hazard). 4) TSI fiberglass.

^J NAD = "No Asbestos Detected"

^K Samples 61 through 63 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the drywall joint compound is a regulated material.

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
600 Building						
HMN-22	2'x4' Fissured ceiling panel (suspended)	Psychologist and office	400 SF	1401060003WWM-64	Office	NAD ^L
				1401060003WWM-65	Office	NAD
				1401060003WWM-66	Psychologist	NAD
HMN-23	Vinyl basecove with glue	Throughout room 601 through 604 and office	700 LF	1401060003WWM-67	Room 604, southeast	NAD
				1401060003WWM-68	Room 602, southwest	NAD
				1401060003WWM-69	Office, southeast	NAD
HMN-24	Carpet glue	Room 601 through 604, office and Psychologist (over 9"x9" floor tile)	4,000 SF	1401060003WWM-70	Room 603, southeast	NAD
				1401060003WWM-71	Room 604, southwest	NAD
				1401060003WWM-72	Room 602, southeast	NAD
				1401060003WWM-73	Room 603, southeast	Tile: 3% chrysotile Mastic: NAD
HMN-25	9"x9" Floor tile and mastic	Room 601 through 604, office and Psychologist (under carpet)	4,000 SF	1401060003WWM-74	Room 604, southwest	Tile: 3% chrysotile Mastic: NAD
				1401060003WWM-75	Room 602, southeast	Tile: 3% chrysotile Mastic: NAD

Note: This table must be used in conjunction with the entire report.

^L NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
600 Building						
HMN-26	Window putty	Throughout exterior window frames	100 SF	1401060003WWM-76 1401060003WWM-77 1401060003WWM-78	Northeast Northwest South	NAD ^M NAD NAD
HMN-27	Roll roof (core sample)	Throughout roof top	6,000 SF	1401060003WWM-79 1401060003WWM-80 1401060003WWM-81	East West South	NAD NAD NAD
HMN-28	Penetration mastic	Seams, patches and penetrations	100 SF	1401060003WWM-82 1401060003WWM-83 1401060003WWM-84	North Center South	NAD NAD NAD

Note: This table must be used in conjunction with the entire report

TABLES TO CONTINUE ON THE NEXT PAGE.
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^M NAD = "No Asbestos Detected"

Executive Environmental
 Asbestos Inspection Report

Lake Center MS – Modernization Project
 Project Number EE 14-Z0187-0003
 January 22, 2014

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
700 Building^N						
HMN-29	12"x12" Fissured ceiling tile with glue	Rooms 701 through 704	3,600 SF	1401060003WWM-85	Room 704, east	NAD ^o
				1401060003WWM-86	Room 703, west	NAD
				1401060003WWM-87	Room 702, east	NAD
HMN-30	Drywall (core sample)	Rooms 701 through 704 ceilings	3,600 SF	1401060003WWM-88	Room 701, west	NAD
				1401060003WWM-89	Room 703, east	NAD
				1401060003WWM-90	Room 704, west	NAD
HMN-31	Blown-in insulation	Throughout building plenums	3,600 SF	1401060003WWM-91	Room 701, west	NAD
				1401060003WWM-92	Room 703, east	NAD
				1401060003WWM-93	Room 704, west	NAD
HMN-32	Drywall joint compound	Janitor room and heater room ceilings	500 SF	1401060003WWM-94	Janitor room, north	NAD
				1401060003WWM-95	Janitor room, south	NAD
				1401060003WWM-96	Heater room, north	NAD
HMN-33	Vinyl basecove with glue	Rooms 701 through 704	480 LF	1401060003WWM-97	Room 701, southeast	NAD
				1401060003WWM-98	Room 702, southwest	NAD
				1401060003WWM-99	Room 704, southeast	NAD

Note: This table must be used in conjunction with the entire report.

^N Note: 1) Interior wood walls. 2) Exterior wood ceilings. 3) TSI fiberglass. 4) Interior and exterior brick walls.
^o NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
700 Building						
HMN-34	Carpet glue (over 9"x9" floor tile)	Rooms 701 through 704 (over 9"x9" floor tile)	3,600 SF	1401060003WM-100	Room 701, southwest	NAD ^P
				1401060003WM-101	Room 703, southeast	NAD
				1401060003WM-102	Room 704, southwest	NAD
HMN-35	9"x9" Floor tile and mastic	Rooms 701 through 704 (under carpet)	3,600 SF	1401060003WM-103	Room 701, southwest	Tile: 2% chrysotile Mastic: 5% chrysotile
				1401060003WM-104	Room 703, southeast	Tile: 5% chrysotile Mastic: 5% chrysotile
				1401060003WM-105	Room 704, southwest	Tile: 5% chrysotile Mastic: 5% chrysotile
HMN-36	Window putty	Throughout exterior window frames	100 SF	1401060003WM-106	Northeast	NAD
				1401060003WM-107	Northwest	NAD
HMN-37	Roll roof (core sample)	Throughout roof top	6,000 SF	1401060003WM-108	South	NAD
				1401060003WM-109	East	NAD
				1401060003WM-110	West	NAD
HMN-38	Penetration mastic	Seams, patches and penetrations	100 SF	1401060003WM-111	South	NAD
				1401060003WM-112	East	NAD
				1401060003WM-113	West	NAD
				1401060003WM-114	South	NAD

Note: This table must be used in conjunction with the entire report.

^P NAD = "No Asbestos Detected"

Executive Environmental
 Asbestos Inspection Report

Lake Center MS – Modernization Project
 Project Number EE 14-Z0187-0003
 January 22, 2014

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
900 Building^a						
HMN-39	12"x12" Fissured ceiling tile with glue	Rooms 901 through 903 and copy room	3,000 SF	1401070003WM-115 1401070003WM-116 1401070003WM-117	Room 903, south Room 901, north Room 902, north	NAD ^R NAD NAD
HMN-40	Drywall (core sample)	Rooms 901 through 903, copy room janitor/student store and heater room ceilings	3,500 SF	1401070003WM-118 1401070003WM-119 1401070003WM-120	Room 903, south Room 902, south Room 901, south	NAD NAD NAD
HMN-41	Blown-in insulation	Throughout building plenums	3,000 SF	1401070003WM-121 1401070003WM-122 1401070003WM-123	Room 903, south Room 902, south Room 901, south	NAD NAD NAD
HMN-42	2'x2' Random wall tile with glue	Room 903: east and south walls	400 SF	1401070003WM-124 1401070003WM-125 1401070003WM-126	Northeast Southeast Southwest	NAD NAD NAD
HMN-43	Drywall joint compound	Janitor/student store and heater room ceilings	400 SF	1401070003WM-127 1401070003WM-128 1401070003WM-129	Janitor/student store, west Janitor/student store, east Heater room, east	NAD NAD NAD

^a Note: 1) Interior wood walls. 2) Exterior wood ceilings. 3) TSI fiberglass. 4) Interior and exterior brick walls. 5) Room 902 - self stick carpet
^R NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
900 Building						
HMN-44	Vinyl basecove with glue	Rooms 901 through 903 and copy room	180 LF	1401070003WM-130	Room 903, southeast	NAD ^s
				1401070003WM-131	Copy room, southeast	NAD
				1401070003WM-132	Room 902, southeast	NAD
HMN-45	12"x12" Beige floor tile and glue	Room 901 and copy room	1,200 SF	1401070003WM-133	Copy room, southeast	NAD
				1401070003WM-134	Room 901, southeast	NAD
				1401070003WM-135	Room 901, southwest	NAD
HMN-46	Blue sheet flooring	Room 903	900 SF	1401070003WM-136	Northeast	NAD
				1401070003WM-137	Southwest	NAD
				1401070003WM-138	Northwest	NAD
HMN-47	Window putty	Throughout exterior window frames	75 SF	1401070003WM-139	Southeast	NAD
				1401070003WM-140	East	NAD
				1401070003WM-141	West	NAD

Note: This table must be used in conjunction with the entire report.

^s NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
900 Building						
HMN-48	Roll roof (core sample)	Throughout roof top	5,000 SF	1401070003WM-142	South	NAD [†]
				1401070003WM-143	North	NAD
				1401070003WM-144	West	NAD
HMN-49	Penetration mastic	Seams, patches and penetrations	100 SF	1401070003WM-145	South	NAD
				1401070003WM-146	North	NAD
				1401070003WM-147	West	NAD

Note: This table must be used in conjunction with the entire report.

**TABLES TO CONTINUE ON THE NEXT PAGE.
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[†] NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
800 Building^u						
HMN-50	12"x12" Fissured ceiling tile with glue	Rooms M1 and M2	1,800 SF	1401070003WM-148	Room M1, east	NAD ^v
				1401070003WM-149	Room M1, west	NAD
				1401070003WM-150	Room M2, west	NAD
HMN-51	Drywall (core sample)	Rooms M1 and M2 ceilings	1,800 SF	1401070003WM-151	Room M2, east	NAD
				1401070003WM-152	Room M2, west	NAD
				1401070003WM-153	Room M1, west	NAD
HMN-52	Blown-in insulation	Throughout building plenums	1,800 SF	1401070003WM-154	Room M2, east	NAD
				1401070003WM-155	Room M2, west	NAD
				1401070003WM-156	Room M1, west	NAD
HMN-53	Vinyl basecove with glue	Rooms M1 and M2	240 LF	1401070003WM-157	Room M2, southwest	NAD
				1401070003WM-158	Room M2, southeast	NAD
				1401070003WM-159	Room M1, southeast	NAD

Note: This table must be used in conjunction with the entire report.

^u Note: 1) Interior wood walls. 2) Exterior wood ceilings. 3) TSI fiberglass. 4) Interior and exterior brick walls.
^v NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
800 Building						
HMN-54	Drywall joint compound	Mechanical room ceiling	40SF	1401070003WM-160	West	<1% chrysotile ^w 1000-Pt. Ct.: <0.1% chrysotile
				1401070003WM-161	Center	<1% chrysotile 1000-Pt. Ct.: <0.1% chrysotile
				1401070003WM-162	East	<1% chrysotile 1000-Pt. Ct.: <0.1% chrysotile
HMN-55	Carpet glue	Room M1 (over 9"x9" floor tile)	900 SF	1401070003WM-163	Southwest	NAD ^x
				1401070003WM-164	Southeast	NAD
				1401070003WM-165	Northwest	NAD
HMN-56	12"x12" Floor tile and mastic	Room M2 (over wood)	900 SF	1401070003WM-166	Southwest	NAD
				1401070003WM-167	Northwest	NAD
				1401070003WM-168	Southeast	NAD

Note: This table must be used in conjunction with the entire report.

^w Samples 160 through 162 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the drywall joint compound is a non-regulated material.
^x NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
800 Building						
HMN-57	9"x9" Floor tile and mastic	Room M1 (under carpet)	900 SF	1401070003WM-169	Southwest	Tile: 3% chrysotile
						Mastic: 2% chrysotile
HMN-58	Window putty	Throughout exterior window frames	50 SF	1401070003WM-170	Southeast	Tile: 3% chrysotile
						Mastic: 2% chrysotile
HMN-59	Roll roof (core sample)	Throughout roof top	2,500 SF	1401070003WM-171	Northeast	Tile: 3% chrysotile
						Mastic: 2% chrysotile
HMN-60	Penetration mastic	Seams, patches and penetrations	50 SF	1401070003WM-172	Northeast	NAD ^Y
				1401070003WM-173	Northwest	NAD
				1401070003WM-174	South	NAD
				1401070003WM-175	West	NAD
				1401070003WM-176	East	NAD
				1401070003WM-177	South	NAD
HMN-60	Penetration mastic	Seams, patches and penetrations	50 SF	1401070003WM-178	West	NAD
				1401070003WM-179	East	NAD
HMN-60	Penetration mastic	Seams, patches and penetrations	50 SF	1401070003WM-180	South	NAD

Note: This table must be used in conjunction with the entire report.

TABLES TO CONTINUE ON THE NEXT PAGE.
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^Y NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
100 Building^z						
HMN-61	12"x12" floor tile and mastic	Band rooms 101 and 102, Storage 101 and 102 and office	3,800 SF	1401080003WM-181	Band room 102, northeast	NAD ^{AA}
				1401080003WM-182	Band room 101, southwest	NAD
				1401080003WM-183	Storage room 101, northeast	NAD
HMN-62	Vinyl basecove with glue	Band rooms 101 and 102, Storage 101 and 102 and office	500 LF	1401080003WM-184	Band room 102, southeast	NAD
				1401080003WM-185	Office, southeast	NAD
				1401080003WM-186	Band room 101, northwest	NAD
HMN-63	Drywall with joint compound (core sample)	Office, mechanical room and switchboard room	700 SF	1401080003WM-187	Switchboard room, north	<1% chrysotile ^{BB} 1000-Pt. Ct.: <0.1% chrysotile
				1401080003WM-188	Mechanical room. Southeast	<1% chrysotile 1000-Pt. Ct.: <0.1% chrysotile
				1401080003WM-189	Office, south	<1% chrysotile 1000-Pt. Ct.: <0.1% chrysotile

^z Note: 1) Interior wood walls and ceilings. 2) Exterior wood ceilings. 3) Rubber HVAC expansion joint. 4) Exterior and interior brick walls. 5) TSI fiberglass.

^{AA} NAD = "No Asbestos Detected"

^{BB} Samples 187 through 189 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the drywall with joint compound is a non-regulated material.

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
100 Building						
HMN-64	Window putty	Throughout exterior window frames	100 SF	1401080003WM-190	Northeast	NAD ^{CC}
				1401080003WM-191	East	NAD
				1401080003WM-192	South	NAD
HMN-65	Roof shingle (core sample)	Main roof top	5,400 SF	1401080003WM-193	Northeast	NAD
				1401080003WM-194	Southwest	NAD
				1401080003WM-195	Southeast	NAD
HMN-66	Roll roof (core sample)	Roof top covered walkway	1,125 SF	1401080003WM-196	West	NAD
				1401080003WM-197	Center	NAD
				1401080003WM-198	East	NAD
HMN-67	Penetration mastic	Seams, patches and penetrations of main roof top	25 SF	1401080003WM-199	West	5% chrysotile
				1401080003WM-200	Center	5% chrysotile
				1401080003WM-201	East	5% chrysotile

Note: This table must be used in conjunction with the entire report.

^{CC} NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Administration Building^{DD}						
HMN-68	2'x2' Straight ceiling tile (nailed, no glue)	Throughout interior except restrooms, vault, janitor room and heater room	2,500 SF	1401080003WWM-202	Teachers' room, southwest	NAD ^{EE}
				1401080003WWM-203	Office, north	NAD
				1401080003WWM-204	Reception, west	NAD
HMN-69	Vinyl basecoat with glue	Throughout interior except restrooms, vault, janitor room and heater room	800 LF	1401080003WWM-205	Teachers' room, northeast	NAD
				1401080003WWM-206	Nurse, east	NAD
				1401080003WWM-207	Reception, southwest	NAD
				1401080003WWM-208	Teachers' room, west	NAD
HMN-70	Carpet mastic (2 nd layer of carpet)	Throughout interior except restrooms, vault, janitor room and heater room	2,500 SF	1401080003WWM-209	Reception, South	NAD
				1401080003WWM-210	A.P. office, northwest	NAD
HMN-71	9"x9" Floor tile and mastic	Vestibule, closets, A.P. office, counselor office, women's and men's restrooms (under carpet in offices)	600 SF	1401080003WWM-211	Vestibule, south	Tile: 5% chrysotile Mastic: 5% chrysotile
				1401080003WWM-212	Women's restroom, east	Tile: 5% chrysotile Mastic: 5% chrysotile
				1401080003WWM-213	Men's restroom, east	Tile: 5% chrysotile Mastic: 5% chrysotile

Note: This table must be used in conjunction with the entire report.

^{DD} Note: 1) Interior wood walls and ceilings. 2) Exterior and interior brick walls. 3) TSI fiberglass pipe wrap. 4) TSI fiberglass. 5) Top layer blue self stick carpet. 6) Exterior wood ceilings.

^{EE} NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Administration Building						
HMN-72	Window putty	Throughout exterior window frames	100 SF	1401080003WWM-214	Southeast	NAD ^{FF}
				1401080003WWM-215	Southwest	NAD
				1401080003WWM-216	North	NAD
HMN-73	Drywall with joint compound	Heater room and janitor room ceilings	400 SF	1401080003WWM-217	Heater room, northeast	NAD
				1401080003WWM-218	Heater room, south	NAD
				1401080003WWM-219	Janitor room, center	NAD
HMN-74	Roof shingle (core sample)	Throughout roof top	5,000 SF	1401080003WWM-220	Southwest	NAD
				1401080003WWM-221	Northwest	NAD
				1401080003WWM-222	Northeast	NAD
HMN-75	Penetration mastic	Seams, patches and penetrations	25 SF	1401080003WWM-223	West	NAD
				1401080003WWM-224	Center	NAD
				1401080003WWM-225	East	NAD

Note: This table must be used in conjunction with the entire report.

FF NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
400 Building^{GG}						
HMN-76	Roll roof (core sample)	Throughout roof top	5,500 SF	1401080003WWM-226	East	NAD ^{HH}
				1401080003WWM-227	West	NAD
				1401080003WWM-228	South	NAD
HMN-77	Penetration mastic	Seams, patches and penetrations	100 SF	1401080003WWM-229	East	NAD
				1401080003WWM-230	West	NAD
				1401080003WWM-231	South	NAD
HMN-78	Window putty	Throughout exterior window frames	100 SF	1401080003WWM-232	Northeast	NAD
				1401080003WWM-233	Northwest	NAD
				1401080003WWM-234	South	NAD
HMN-79	12"x12" Fissured ceiling tile with glue	Rooms 401 through 404	4,000 SF	1401090003WWM-235	Room 402, east	NAD
				1401090003WWM-236	Room 403, east	NAD
				1401090003WWM-237	Room 404, west	NAD
HMN-80	Drywall (core sample)	Throughout ceilings	4,500 SF	1401090003WWM-238	Room 402, west	NAD
				1401090003WWM-239	Room 403, west	NAD
				1401090003WWM-240	Room 404, east	NAD

Note: This table must be used in conjunction with the entire report.

^{GG} Note: 1) Interior and exterior brick walls. 2) Exterior wood ceilings. 3) TSI fiberglass. 4) Interior wood walls.

^{HH} NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
400 Building						
HMN-81	Blown-in insulation	Throughout building plenums	4,500 SF	1401090003WWM-241	Room 402, west	NAD ^{II}
				1401090003WWM-242	Room 403, west	NAD
				1401090003WWM-243	Room 404, east	NAD
HMN-82	Drywall joint compound	Janitor room and heater room ceilings	600 SF	1401090003WWM-244	Janitor room, south	<1% chrysotile ^{JJ}
				1401090003WWM-245	Janitor room, north	1000-Pt. Ct.: <0.1% chrysotile
				1401090003WWM-246	Heater room, center	NAD
HMN-83	Vinyl basecoat with glue	Room 401 through 404	480 LF	1401090003WWM-247	Room 402, southeast	NAD
				1401090003WWM-248	Room 404, southeast	NAD
				1401090003WWM-249	Room 403, southwest	NAD
HMN-84	Carpet glue	Room 401 through 404 (over 9"x9" floor tile)	3,600 SF	1401090003WWM-250	Room 402, northeast	NAD
				1401090003WWM-251	Room 404, northeast	NAD
				1401090003WWM-252	Room 403, northwest	NAD
HMN-85	9"x9" Floor tile and mastic	Room 401 through 404 (under carpet)	3,600 SF	1401090003WWM-253	Room 402, northeast	Tile: 3% chrysotile Mastic: NAD
				1401090003WWM-254	Room 404, northeast	Tile: 3% chrysotile Mastic: NAD
				1401090003WWM-255	Room 403, northwest	Tile: 3% chrysotile Mastic: NAD

^{II} NAD = "No Asbestos Detected"

^{JJ} Sample 244 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the drywall joint compound is a non-regulated material.

BULK SAMPLE ANALYSIS DATA (PLM)

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
500 Building^{KK}						
HMN-86	Roll roof (core sample)	Throughout roof top	6,000 SF	1401090003WWM-256	East	NAD ^{LL}
				1401090003WWM-257	West	NAD
				1401090003WWM-258	South	NAD
HMN-87	Penetration mastic	Seams, patches and penetrations	100 SF	1401090003WWM-259	East	NAD
				1401090003WWM-260	West	NAD
				1401090003WWM-261	South	NAD
HMN-88	Window putty	Throughout exterior window frames	100 SF	1401090003WWM-262	Northeast	NAD
				1401090003WWM-263	Northwest	NAD
				1401090003WWM-264	South	NAD
HMN-89	12"x12" Fissured ceiling tile with glue	Rooms 501 through 504	4,000 SF	1401090003WWM-265	Room 501, west	NAD
				1401090003WWM-266	Room 502, west	NAD
				1401090003WWM-267	Room 503, west	NAD
HMN-90	Drywall (core sample)	Throughout ceilings	4,500 SF	1401090003WWM-268	Room 504, east	NAD
				1401090003WWM-269	Room 502, east	NAD
				1401090003WWM-270	Room 501, east	NAD

Note: This table must be used in conjunction with the entire report.

^{KK} Note: 1) Interior and exterior brick walls. 2) Exterior wood ceilings. 3) TSI fiberglass. 4) Interior wood walls and ceilings.
^{LL} NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
500 Building						
HMN-91	Blown-in insulation	Throughout building plenums	4,500 SF	1401090003WWM-271	Room 504, east	NAD ^{MM}
				1401090003WWM-272	Room 502, east	NAD
				1401090003WWM-273	Room 501, east	NAD
HMN-92	Drywall joint compound	Janitor room, heater room, room 501 ceilings	600 SF	1401090003WWM-274	Room 501, west	NAD
				1401090003WWM-275	Janitor room, south	NAD
				1401090003WWM-276	Heater room, east	NAD
HMN-93	Vinyl basecove with glue	Room 501 through 504	480 LF	1401090003WWM-277	Room 503, southwest	NAD
				1401090003WWM-278	Room 504, northeast	NAD
				1401090003WWM-279	Room 502, north	NAD
HMN-94	Carpet glue	Room 501 through 504 (over 9"x9" floor tile)	3,600 SF	1401090003WWM-280	Room 501, southeast	NAD
				1401090003WWM-281	Room 502, southeast	NAD
				1401090003WWM-282	Room 503, southeast	NAD

Note: This table must be used in conjunction with the entire report.

^{MM} NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
500 Building						
HMN-95	9"x9" Floor tile and mastic	Room 501 through 504 (under carpet)	3,600 SF	1401090003WM-283	Room 501, southeast	Tile: 3% chrysotile Mastic: NAD
				1401090003WM-284	Room 502, southeast	Tile: 3% chrysotile Mastic: NAD
				1401090003WM-285	Room 503, southwest	Tile: 3% chrysotile Mastic: NAD
HMN-96	Black mastic	Room 504 on brick wall of west wall	9 SF	1401210003RK-286	Northwest corner	NAD ^{NN}
				1401210003RK-287	Northwest corner	NAD
				1401210003RK-288	Northwest corner	NAD

Note: This table must be used in conjunction with the entire report.

^{NN} NAD = "No Asbestos Detected"

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
200 Building⁰⁰						
HMN-97	Interior plaster	Rooms 203, 204 walls only and men's and women's restrooms walls and ceilings	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-98	Vinyl basecoat with glue	Rooms 201 through 204 and office	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-99	Blue sheet flooring	Rooms 203 and 204 (over 9" vinyl tile)	1,800 SF	---	---	Positive per EE's Report 12-0187 Dated August 2012
HMN-100	12"x12" Blue vinyl tile with glue	Room 202 (over 9" tile)	900 SF	---	---	Positive per EE's Report 12-0187 Dated August 2012
HMN-101	9"X9" Tan vinyl tile and mastic	Rooms 201-204, office, passage way (under carpet, 12" tile and sheet flooring)	3,200 SF	---	---	Positive per EE's Report 12-0187 Dated August 2012
HMN-102	Window putty	Interior building perimeter (metal frames only)	100 SF	---	---	Positive per EE's Report 12-0187 Dated August 2012

Note: This table must be used in conjunction with the entire report.

⁰⁰ The following materials were identified as non-suspect materials: interior wood walls in rooms 201 & 202, interior and exterior perimeter brick walls, self-stick carpet in 201, terrazzo flooring in the restrooms and wood ceiling on arcade.

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Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
200 Building						
HMN-103	Roll roof core	Throughout roof top and arcade	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-104	Roof penetration mastic	Throughout roof top and arcade	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-105	Texture coat ceiling	Metal arcade ceiling on south side	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-106	Stucco	Throughout exterior overhangs	---	---	---	Negative per EE's Report 12-0187 Dated August 2012
HMN-107	2'x2' random ceiling tile (nailed on, no glue)	Rooms 201 through 204	---	---	---	Negative per EE's Report 12-0187 dated August 2012. Material removed and replaced with new 12" fissured ceiling tile.

Note: This table must be used in conjunction with the entire report.

HAZARDOUS MATERIALS
 Lake Center Middle School
 Modernization
 10503 South Pioneer Boulevard
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Homogeneous Material #	Material Description	Material Location	Approximate Quantity
300 Building			
HMN-108	Florescent light tubes	Throughout building	157 Total
Library Building			
HMN-109	Florescent light tubes	Throughout building	112 Total
600 Building			
HMN-110	Florescent light tubes	Throughout building	157 Total
700 Building			
HMN-111	Florescent light tubes	Throughout building	157 Total
900 Building			
HMN-112	Florescent light tubes	Throughout building	115 Total
800 Building			
HMN-113	Florescent light tubes	Throughout building	74 Total
100 Building			
HMN-114	Florescent light tubes	Throughout building	130 Total
Administration Building			
HMN-115	Florescent light tubes	Throughout building	66 Total
400 Building			
HMN-116	Florescent light tubes	Throughout building	157 Total
500 Building			
HMN-117	Florescent light tubes	Throughout building	157 Total
200 Building			
HMN-118	Freon-containing HVAC units	Exterior east side of Building	4 ea.
HMN-119	Florescent light tubes	Rooms 201 through 204 and office	108 ea.

Note: This table must be used in conjunction with the entire report.

IV. FINDINGS

EE conducted an asbestos inspection of the interior and exterior surfaces of the following buildings: Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California.

One hundred and nineteen (119) homogeneous material groups were identified during the visual property inspection. Two hundred eighty-eight (288) samples of suspect asbestos-containing materials were collected and delivered to Hygeia Laboratories, Incorporated, for analysis. The homogeneous areas and sampling results are listed on the table in Section III.

300 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile located under the carpet in rooms 301 through 304 tested positive for asbestos content. The floor tile mastic tested negative for asbestos content.
- Penetration mastic: The roof penetration mastic located at seams, patches and penetrations tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

Library Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile and mastic located under the carpet in the library room tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

600 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile located under the carpet in rooms 601 through 604, office and Psychologist tested positive for asbestos content. The floor tile mastic tested negative for asbestos content.
- Drywall joint compound: The drywall joint compound located on the ceiling in the janitor room, office and Psychologist tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

700 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile and mastic located under the carpet located in rooms 701 through 704 tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

800 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile and mastic located under the carpet in room M1 tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

900 Building:

- Florescent Light Tube: Florescent light tubes are located throughout building.

100 Building:

- Penetration mastic: The roof penetration mastic located at seams, patches and penetrations tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

Administration Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile and mastic located in the vestibule, closets, A.P. office, counselor office, women's and men's restrooms (under carpet in offices) tested positive for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

400 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile located under the carpet in rooms 401 through 404 tested positive for asbestos content. The floor tile mastic tested negative for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

500 Building:

- 9"x9" Floor tile and mastic: The 9"x9" floor tile located under the carpet in rooms 501 through 504 tested positive for asbestos content. The floor tile mastic tested negative for asbestos content.
- Florescent Light Tube: Florescent light tubes are located throughout building.

Building 200:

- Blue sheet flooring with glue: The blue sheet flooring with glue over 9" tile located in rooms 203 and 204 tested positive for asbestos content.
- 12"x12" Blue vinyl floor tile with glue: The 12"x12" blue vinyl tile with glue over 9" tile located in room 202 tested positive for asbestos content.
- 9"x9" Tan floor tile and mastic: The 9"x9" tan floor tile and mastic located in rooms 201-204, office and passage way tested positive for asbestos content.
- Window putty: The interior window putty located throughout metal windows contains <1% chrysotile asbestos. Cal/OSHA requires special handling of this material. If this material is impacted, it is recommended that additional testing be performed in accordance with NESHAP.
- Freon-Containing AC Unit: Freon-containing AC units are located on the exterior east side of building.
- Florescent Light Tube: Florescent light tubes are located in the rooms 201 through 204 and office.

V. CONCLUSIONS/RECOMMENDATIONS

Normally, asbestos-containing material found to be in good condition is not considered a hazard, unless it is disturbed. Prior to the start of any activity, such as remodeling, demolition, or renovation, that might disturb this material, a Certified Asbestos Consultant should be contracted to design and monitor the project. A California-licensed asbestos contractor should be hired to complete the asbestos abatement procedures.

If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 7, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Hygeia Reference No.: 04139 14 0001 Date Collected: January 2, 2014 Date Received: January 4, 2014 Date Analyzed: January 6, 2014															
Client Reference: 14-Z0187-0003		Asbestos Type, %					Non-Asbestos Constituents, %						QC				
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers		Vermiculite	Organic Binders	Paint	Perlite
140102003WM-01 1389629	N/A - white	No							10			90					X
140102003WM-02 1389630	N/A - white	No							10			90					
140102003WM-03 1389631	N/A - white	No							10			90					
140102003WM-04 1389632	N/A - white	No							5	85		10					
140102003WM-05 1389633	N/A - white	No							5	85		10					
140102003WM-06 1389634	N/A - white	No							5	85		10					
140102003WM-07 1389635A	N/A - white/tan	No							60	20		3			2	15	X
140102003WM-07 1389635B	Mastic - brown	No										30		70			
140102003WM-08 1389636A	N/A - tan	No							62	20		3				15	
140102003WM-08 1389636B	Mastic - brown	No										30		70			
140102003WM-09 1389637A	N/A - tan	No							62	20		3				15	
140102003WM-09 1389637B	Mastic - brown	No										30		70			
140102003WM-10 1389638	N/A - tan	No									2	68		30			
140102003WM-11 1389639	N/A - tan	No									2	68		30			
140102003WM-12 1389640	N/A - tan	No									2	68		30			
140102003WM-13 1389641	N/A - tan	Yes	< 1						90			10					



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 7, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
140102003WM-14 1389642	N/A - tan	Yes	< 1						90			10					
140102003WM-15 1389643	N/A - tan	Yes	< 1						90			10					
140102003WM-16 1389644A	N/A - blue	No										70		30			
140102003WM-16 1389644B	Mastic - tan	No										60		40			
140102003WM-17 1389645A	N/A - blue	No										70		30			
140102003WM-17 1389645B	Mastic - tan	No										60		40			
140102003WM-18 1389646A	N/A - blue	No										70		30			
140102003WM-18 1389646B	Mastic - tan	No										60		40			
140102003WM-19 1389647A	N/A - tan	Yes	5									75		20			
140102003WM-19 1389647B	Mastic - black	No										40		60			
140102003WM-20 1389648A	N/A - tan	Yes	5									75		20			
140102003WM-20 1389648B	Mastic - black	No										40		60			
140102003WM-21 1389649A	N/A - tan	Yes	5									75		20			
140102003WM-21 1389649B	Mastic - black	No										40		60			
140102003WM-22 1389650	N/A - yellow	No									2	28		70			
140102003WM-23 1389651	N/A - yellow	No									2	28		70			
140102003WM-24 1389652	N/A - yellow	No									2	28		70			X
140102003WM-25 1389653	N/A - pink/grey	No										98			2		
140102003WM-26 1389654	N/A - pink/grey	No										98			2		



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 7, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %					Non-Asbestos Constituents, %						QC				
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers		Vermiculite	Organic Binders	Paint	Perlite
140102003WM-27 1389655	N/A - pink/grey	No										98		2			X
140102003WM-28 1389656	N/A - white/black	No							30			40		30			
140102003WM-29 1389657	N/A - white/black	No							30			40		30			
140102003WM-30 1389658	N/A - white/black	No							30			40		30			
140102003WM-31 1389659	N/A - black	Yes	3						7			40		50			
140102003WM-32 1389660	N/A - black	Yes	3						7			40		50			
140102003WM-33 1389661	N/A - silver/black	No							10			40		50			
140102003WM-34 1389662	N/A - white/brown	No							95			3		2			
140102003WM-35 1389663	N/A - white/brown	No							95			3		2			X
140102003WM-36 1389664	N/A - white/brown	No							95			3		2			
140102003WM-37 1389665	N/A - tan/white	No										98		2			
140102003WM-38 1389666	N/A - tan/white	No										98		2			
140102003WM-39 1389667	N/A - tan/white	No										98		2			
140102003WM-40 1389668	N/A - yellow	No							2	3		20		75			
140102003WM-41 1389669	N/A - yellow	No							2	3		20		75			
140102003WM-42 1389670	N/A - yellow	No							2	3		20		75			
140102003WM-43 1389671A	N/A - tan	Yes	5									75		20			
140102003WM-43 1389671B	Mastic - black	Yes	5									40		55			
140102003WM-44 1389672A	N/A - tan	Yes	5									75		20			



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 7, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC		
		Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint
Client Sample ID Hygeia Sample ID	Sample Description - color Comments															
140102003WM-44 1389672B	Mastic - black	Yes	5								40	55				
140102003WM-45 1389673A	N/A - tan	Yes	5								75	20				
140102003WM-45 1389673B	Mastic - black	Yes	5								40	55				
140102003WM-46 1389674	N/A - white/black	No							30		40	30				X
140102003WM-47 1389675	N/A - white/black	No							30		40	30				
140102003WM-48 1389676	N/A - white/black	No							30		40	30				
140102003WM-49 1389677	N/A - black	No							10		40	50				
140102003WM-50 1389678	N/A - black	No							10		40	50				
140102003WM-51 1389679	N/A - black	No							10		40	50				

Microscopist - Fidel Gutierrez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 11, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Hygeia Reference No: 04139 14 0003 Samples Analyzed: 80 Sampler: W. Medina Sample Condition: Acceptable											Date Collected: January 6, 2014 Date Received: January 7, 2014 Date Analyzed: January 11, 2014				
Client Reference: 14-Z0187-0003		Asbestos Type, %					Non-Asbestos Constituents, %					QC					
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthrophyllite	Other	Cellulose	Fiberglass	Synthetic		Mineral Fillers	Vermiculite	Organic Binders	Paint	Perlite
1401060003WM-52 1389997A	N/A - white/tan	No							60	20		5				15	
1401060003WM-52 1389997B	Mastic - tan	No										30		70			
1401060003WM-53 1389998A	N/A - tan	No							60	20		5				15	X
1401060003WM-53 1389998B	Mastic - tan	No										30		70			
1401060003WM-54 1389999A	N/A - tan	No							60	20		5				15	
1401060003WM-54 1389999B	Mastic - tan	No										30		70			
1401060003WM-55 1390000	N/A - white	No							10	2		88					
1401060003WM-56 1390001	N/A - white	No							10	2		88					
1401060003WM-57 1390002	N/A - white	No							10	2		88					
1401060003WM-58 1390003	N/A - white	No							5	90		5					
1401060003WM-59 1390004	N/A - white	No							5	90		5					
1401060003WM-60 1390005	N/A - white	No							5	90		5					
1401060003WM-61 1390006	N/A - brown/tan	Yes	< 1									98			2		
1401060003WM-62 1390007	N/A - tan	Yes	< 1									100					
1401060003WM-63 1390008	N/A - brown/tan	Yes	< 1									98			2		
1401060003WM-64 1390009	N/A - white/tan	No							60	20		3			2	15	



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 29, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006	Samples Analyzed: 1 Sampler: W. Medina Sample Condition: Acceptable	Hygeia Reference No: 04139 14 0037 Date Collected: January 6, 2014 Date Received: January 28, 2014 Date Analyzed: January 29, 2014
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Client Reference: 14-Z0187-0003

Client Sample ID Hygeia Sample ID	Sample Description Comments	Detection Limit	Gravimetric Reduction	Analytical Results	QC
1401060003WM-61 1390006p	N/A	0.06%	17% organic 28% acid soluble	0.61% chrysotile	
1401060003WM-62 1390007p	N/A	0%		Not Analyzed	
1401060003WM-63 1390008p	N/A	0%		Not Analyzed	

Microscopist - Arturo Casas

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg, vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

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Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 11, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401060003WM-65 1390010	N/A - white/tan	No							60	20		3			2	15	
1401060003WM-66 1390011	N/A - white/tan	No							60	20		3			2	15	
1401060003WM-67 1390012A	N/A - blue	No										60		40			X
1401060003WM-67 1390012B	Mastic - white/pink	No										65		35			
1401060003WM-68 1390013A	N/A - blue	No										60		40			
1401060003WM-68 1390013B	Mastic - white	No										65		35			
1401060003WM-69 1390014A	N/A - blue	No										60		40			
1401060003WM-69 1390014B	Mastic - white/pink	No										65		35			
1401060003WM-70 1390015	N/A - tan	No									2	38		60			
1401060003WM-71 1390016	N/A - tan	No									2	38		60			
1401060003WM-72 1390017	N/A - tan	No									2	38		60			
1401060003WM-73 1390018A	N/A - tan	Yes	3									70		27			X
1401060003WM-73 1390018B	Mastic - black	No										30		70			
1401060003WM-74 1390019A	N/A - tan	Yes	3									70		27			
1401060003WM-74 1390019B	Mastic - black	No										30		70			
1401060003WM-75 1390020A	N/A - tan	Yes	3									70		27			
1401060003WM-75 1390020B	Mastic - black	No										30		70			
1401060003WM-76 1390021	N/A - tan/grey	No										95			5		
1401060003WM-77 1390022	N/A - tan/grey	No										95			5		



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 11, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401060003WM-78 1390023	N/A - tan/grey	No										95			5		
1401060003WM-79 1390024	N/A - white/black	No								30		40		30			
1401060003WM-80 1390025	N/A - white/black	No								30		40		30			
1401060003WM-81 1390026	N/A - white/black	No								30		40		30			
1401060003WM-82 1390027	N/A - grey/blkack	No							3			17		80			
1401060003WM-83 1390028	N/A - grey/blkack	No							3			17		80			
1401060003WM-84 1390029	N/A - grey/blkack	No							3			17		80			
1401060003WM-85 1390030A	N/A - tan	No							60	20		5				15	X
1401060003WM-85 1390030B	Mastic - tan	No										30		70			
1401060003WM-86 1390031A	N/A - tan	No							60	20		5				15	
1401060003WM-86 1390031B	Mastic - tan	No										30		70			
1401060003WM-87 1390032A	N/A - tan	No							60	20		5				15	
1401060003WM-87 1390032B	Mastic - tan	No										30		70			
1401060003WM-88 1390033	N/A - white	No							10			90					
1401060003WM-89 1390034	N/A - white	No							10			90					
1401060003WM-90 1390035	N/A - white	No							10			90					
1401060003WM-91 1390036	N/A - white	No							5	90		5					
1401060003WM-92 1390037	N/A - white	No							5	90		5					
1401060003WM-93 1390038	N/A - white	No							5	90		5					X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 11, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %							Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders		Paint	Perlite	
1401060003WM-94 1390039	N/A - tan	No										100						X
1401060003WM-95 1390040	N/A - tan	No										100						X
1401060003WM-96 1390041	N/A - tan	No										100						X
1401060003WM-97 1390042	N/A - blue <i>Insufficient mastic</i>	No										70		30				X
1401060003WM-98 1390043A	N/A - blue	No										70		30				X
1401060003WM-98 1390043B	Mastic - yellow	No										60		40				X
1401060003WM-99 1390044A	N/A - blue	No										70		30				X
1401060003WM-99 1390044B	Mastic - tan	No										30		70				X
1401060003WM-100 1390045	N/A - yellow	No									2	28		70				X
1401060003WM-101 1390046	N/A - yellow	No									2	28		70				X
1401060003WM-102 1390047	N/A - yellow	No									2	28		70				X
1401060003WM-103 1390048A	N/A - pink	Yes	2									78		20				X
1401060003WM-103 1390048B	Mastic - black	Yes	5									40		55				X
1401060003WM-104 1390049A	N/A - tan	Yes	5									75		20				X
1401060003WM-104 1390049B	Mastic - black	Yes	5									40		55				X
1401060003WM-105 1390050A	N/A - tan	Yes	5									75		20				X
1401060003WM-105 1390050B	Mastic - black	Yes	5									40		55				X
1401060003WM-106 1390051	N/A - pink/grey	No										98			2			X
1401060003WM-107 1390052	N/A - pink/grey	No										98			2			X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 11, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401060003WM-108 1390053	N/A - pink/grey	No										98			2		
1401060003WM-109 1390054	N/A - grey/black	No								30		40		30			X
1401060003WM-110 1390055	N/A - grey/black	No								30		40		30			
1401060003WM-111 1390056	N/A - grey/black	No								30		40		30			
1401060003WM-112 1390057	N/A - black	No							15			35		50			
1401060003WM-113 1390058	N/A - black	No							15			35		50			
1401060003WM-114 1390059	N/A - black	No							15			35		50			

Microscopist - Fidel Gutierrez

Microscopist - Guillermo Hernandez

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Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Hygeia Reference No: 04139 14 0004															
Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Samples Analyzed: 93 Sampler: W. Medina Sample Condition: Acceptable					Date Collected: January 7, 2014 Date Received: January 8, 2014 Date Analyzed: January 12, 2014										
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Type, %						Non-Asbestos Constituents, %						QC			
		Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-115 1390145A	N/A - grey	No						65	20		5					10	X
1401070003WM-115 1390145B	Mastic - tan	No									5		95				
1401070003WM-116 1390146A	N/A - grey	No						65	20		5					10	
1401070003WM-116 1390146B	Mastic - tan	No									5		95				
1401070003WM-117 1390147A	N/A - grey	No						65	20		5					10	
1401070003WM-117 1390147B	Mastic - tan	No									5		95				
1401070003WM-118 1390148	N/A - white	No						10			90						
1401070003WM-119 1390149	N/A - white	No						10			90						
1401070003WM-120 1390150	N/A - white	No						10			90						
1401070003WM-121 1390151	N/A - white	No							95		5						
1401070003WM-122 1390152	N/A - white	No							95		5						
1401070003WM-123 1390153	N/A - white	No							95		5						
1401070003WM-124 1390154A	N/A - tan	No						95			5						
1401070003WM-124 1390154B	Mastic - brown	No									5		95				
1401070003WM-125 1390155A	N/A - tan	No						95			5						X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-125 1390155B	Mastic - brown	No										5		95			
1401070003WM-126 1390156A	N/A - tan	No							90			5			5		
1401070003WM-126 1390156B	Mastic - brown	No										5		95			
1401070003WM-127 1390157	N/A - tan	No										97			3		
1401070003WM-128 1390158	N/A - tan	No										97			3		
1401070003WM-129 1390159	N/A - tan	No										97			3		
1401070003WM-130 1390160A	N/A - blue	No										60		40			
1401070003WM-130 1390160B	Mastic - yellow	No										40		60			
1401070003WM-131 1390161A	N/A - brown	No										60		40			X
1401070003WM-131 1390161B	Mastic - yellow	No										40		60			
1401070003WM-132 1390162A	N/A - blue	No										60		40			
1401070003WM-132 1390162B	Mastic - tan	No										40		60			
1401070003WM-133 1390163A	N/A - grey	No										80		20			
1401070003WM-133 1390163B	Mastic - yellow	No										40		60			
1401070003WM-134 1390164A	N/A - grey	No										80		20			
1401070003WM-134 1390164B	Mastic - yellow	No										40		60			
1401070003WM-135 1390165A	N/A - grey	No										80		20			
1401070003WM-135 1390165B	Mastic - yellow	No										40		60			



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-136 1390166A	N/A - blue	No										60		40			
1401070003WM-136 1390166B	Mastic - yellow	No										40		60			
1401070003WM-137 1390167A	N/A - blue	No										60		40			
1401070003WM-137 1390167B	Mastic - yellow	No										40		60			
1401070003WM-138 1390168A	N/A - blue	No										60		40			
1401070003WM-138 1390168B	Mastic - yellow	No										40		60			
1401070003WM-139 1390169	N/A - purple/grey	No										98			2		X
1401070003WM-140 1390170	N/A - purple/grey	No										98			2		
1401070003WM-141 1390171	N/A - purple/grey	No										98			2		
1401070003WM-142 1390172	N/A - white/black	No								25		30		45			
1401070003WM-143 1390173	N/A - white/black	No								25		30		45			
1401070003WM-144 1390174	N/A - white/black	No								25		30		45			
1401070003WM-145 1390175	N/A - black	No							20			30		50			
1401070003WM-146 1390176	N/A - black	No							20			30		50			
1401070003WM-147 1390177	N/A - black	No							20			30		50			X
1401070003WM-148 1390178A	N/A - grey	No							65	20		5				10	X
1401070003WM-148 1390178B	Mastic - tan	No										5		95			
1401070003WM-149 1390179A	N/A - grey	No							65	20		5				10	



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthrophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-149 1390179B	Mastic - tan	No										5		95			
1401070003WM-150 1390180A	N/A - grey	No							65	20		5				10	
1401070003WM-150 1390180B	Mastic - tan	No										5		95			
1401070003WM-151 1390181	N/A - white	No							10			90					
1401070003WM-152 1390182	N/A - white	No							10			90					X
1401070003WM-153 1390183	N/A - white	No							10			90					
1401070003WM-154 1390184	N/A - white	No								95		5					
1401070003WM-155 1390185	N/A - white	No								95		5					
1401070003WM-156 1390186	N/A - white	No								95		5					
1401070003WM-157 1390187A	N/A - blue	No										60		40			
1401070003WM-157 1390187B	Mastic - tan	No										40		60			
1401070003WM-158 1390188A	N/A - blue	No										60		40			
1401070003WM-158 1390188B	Mastic - tan	No										40		60			
1401070003WM-159 1390189A	N/A - blue	No										60		40			X
1401070003WM-159 1390189B	Mastic - tan	No										40		60			
1401070003WM-160 1390190	N/A - pink/tan	Yes	< 1						5			93			2		
1401070003WM-161 1390191	N/A - pink/tan	Yes	< 1						5			93			2		
1401070003WM-162 1390192	N/A - pink/tan	Yes	< 1						5			93			2		



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						OC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-163 1390193	N/A - tan	No										40		60			
1401070003WM-164 1390194	N/A - tan	No										40		60			
1401070003WM-165 1390195	N/A - tan	No										40		60			
1401070003WM-166 1390196A	N/A - grey	No										80		20			
1401070003WM-166 1390196B	Mastic - yellow	No										40		60			
1401070003WM-167 1390197A	N/A - grey	No										80		20			
1401070003WM-167 1390197B	Mastic - yellow	No										40		60			
1401070003WM-168 1390198A	N/A - grey	No										80		20			
1401070003WM-168 1390198B	Mastic - yellow	No										40		60			
1401070003WM-169 1390199A	N/A - tan	Yes	3									77		20			
1401070003WM-169 1390199B	Mastic - black	Yes	2									38		60			
1401070003WM-170 1390200A	N/A - tan	Yes	3									77		20			
1401070003WM-170 1390200B	Mastic - black	Yes	2									38		60			
1401070003WM-171 1390201A	N/A - tan	Yes	3									77		20			
1401070003WM-171 1390201B	Mastic - black	Yes	2									38		60			
1401070003WM-172 1390202	N/A - Purple/grey	No										98			2		
1401070003WM-173 1390203	N/A - Purple/grey	No										98			2		
1401070003WM-174 1390204	N/A - Purple/grey	No										98			2		X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401070003WM-175 1390205	N/A - white/black	No								25		30		45			
1401070003WM-176 1390206	N/A - white/black	No								25		30		45			
1401070003WM-177 1390207	N/A - white/black	No								25		30		45			
1401070003WM-178 1390208	N/A - black	No							20			30		50			
1401070003WM-179 1390209	N/A - black	No							20			30		50			
1401070003WM-180 1390210	N/A - black	No							20			30		50			

Microscopist - Rogelio Casillas

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Hygeia Reference No.: 04139 14 0006 Samples Analyzed: 66 Date Collected: January 8, 2014 Sampler: W. Medina Date Received: January 9, 2014 Sample Condition: Acceptable Date Analyzed: January 14, 2014															
Client Reference: 14-Z0187-0003		Asbestos Type, %					Non-Asbestos Constituents, %						QC				
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers		Vermiculite	Organic Binders	Paint	
1401080003WM-181 1390457A	N/A - tan	No										70		30			X
1401080003WM-181 1390457B	Mastic - yellow	No							3			37		60			
1401080003WM-182 1390458A	N/A - tan	No										70		30			
1401080003WM-182 1390458B	Mastic - yellow	No							3			37		60			
1401080003WM-183 1390459A	N/A - tan	No										70		30			
1401080003WM-183 1390459B	Mastic - yellow	No							3			37		60			
1401080003WM-184 1390460A	N/A - grey	No										60		40			
1401080003WM-184 1390460B	Mastic - tan	No										30		70			
1401080003WM-185 1390461A	N/A - grey	No										60		40			
1401080003WM-185 1390461B	Mastic - tan	No										30		70			
1401080003WM-186 1390462A	N/A - grey	No										60		40			
1401080003WM-186 1390462B	Mastic - tan	No										30		70			
1401080003WM-187 1390463	N/A - tan/white	Yes	< 1						10			88		2			
1401080003WM-188 1390464	N/A - tan/white	Yes	< 1						10			88		2			
1401080003WM-189 1390465	N/A - tan/white	Yes	< 1						10			88		2			
1401080003WM-190 1390466	N/A - purple/grey	No										97		3			
1401080003WM-191 1390467	N/A - purple/grey	No										97		3			X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC		
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint
1401080003WM-192 1390468	N/A - purple/grey	No										97			3	
1401080003WM-193 1390469	N/A - white/black	No								35		40		25		
1401080003WM-194 1390470	N/A - white/black	No								35		40		25		
1401080003WM-195 1390471	N/A - white/black	No								35		40		25		
1401080003WM-196 1390472	N/A - white/black	No								20	5	35		40		
1401080003WM-197 1390473	N/A - white/black	No								20	5	35		40		
1401080003WM-198 1390474	N/A - white/black	No								20	5	35		40		
1401080003WM-199 1390475	N/A - grey/black	Yes	5									35		60		
1401080003WM-200 1390476	N/A - grey/black	Yes	5									35		60		X
1401080003WM-201 1390477	N/A - grey/black	Yes	5									35		60		
1401080003WM-202 1390478	N/A - white/brown	No							90			10				
1401080003WM-203 1390479	N/A - white/brown	No							90			10				
1401080003WM-204 1390480	N/A - white/brown	No							90			10				
1401080003WM-205 1390481A	N/A - blue	No										60		40		
1401080003WM-205 1390481B	Mastic - tan	No										50		50		
1401080003WM-206 1390482A	N/A - blue	No										60		40		
1401080003WM-206 1390482B	Mastic - tan	No										50		50		
1401080003WM-207 1390483A	N/A - blue	No										60		40		
1401080003WM-207 1390483B	Mastic - tan	No										50		50		



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC		
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint
1401080003WM-208 1390484	N/A - yellow	No									2	38		60		
1401080003WM-209 1390485	N/A - yellow	No									2	38		60		
1401080003WM-210 1390486	N/A - yellow	No									2	38		60		X
1401080003WM-211 1390487A	N/A - tan	Yes	5									70		25		
1401080003WM-211 1390487B	Mastic - black	Yes	5									35		60		
1401080003WM-212 1390488A	N/A - grey	Yes	5									70		25		
1401080003WM-212 1390488B	Mastic - black	Yes	5									35		60		
1401080003WM-213 1390489A	N/A - grey	Yes	5									70		25		
1401080003WM-213 1390489B	Mastic - black	Yes	5									35		60		
1401080003WM-214 1390490	N/A - white	No										100				
1401080003WM-215 1390491	N/A - white	No										100				
1401080003WM-216 1390492	N/A - white	No										100				
1401080003WM-217 1390493	N/A - white	No							10			88		2		
1401080003WM-218 1390494	N/A - white	No							10			88		2		
1401080003WM-219 1390495	N/A - white	No							10			88		2		
1401080003WM-220 1390496	N/A - grey/blue/black	No							40	20		15		25		X
1401080003WM-221 1390497	N/A - grey/blue/black	No							40	20		15		25		
1401080003WM-222 1390498	N/A - grey/blue/black	No							40	20		15		25		
1401080003WM-223 1390499	N/A - silver/black	No							3			37		60		X



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 14, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC		
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint
1401080003WM-224 1390500	N/A - silver/black	No							3			37		60		
1401080003WM-225 1390501	N/A - silver/black	No							10			30		60		
1401080003WM-226 1390502	N/A - white/black	No								30		40		30		
1401080003WM-227 1390503	N/A - white/black	No								30		40		30		
1401080003WM-228 1390504	N/A - white/black	No								30		40		30		
1401080003WM-229 1390505	N/A - grey/black	No							20			35		45		
1401080003WM-230 1390506	N/A - grey/black	No							20			35		45		
1401080003WM-231 1390507	N/A - grey/black	No							20			35		45		
1401080003WM-232 1390508	N/A - purple/grey	No										97			3	
1401080003WM-233 1390509	N/A - purple/grey	No										97			3	
1401080003WM-234 1390510	N/A - purple/grey	No										97			3	

Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

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Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 15, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Hygeia Reference No.: 04139 14 0011 Samples Analyzed: 69 Sampler: W. Medina Sample Condition: Acceptable											Date Collected: January 9, 2014 Date Received: January 10, 2014 Date Analyzed: January 15, 2014				
Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401090003WM-235 1390662A	N/A - tan	No							60	20		5				15	X
1401090003WM-235 1390662B	Mastic - tan	No							5			35		60			
1401090003WM-236 1390663A	N/A - tan	No							60	20		5				15	
1401090003WM-236 1390663B	Mastic - tan	No							5			35		60			
1401090003WM-237 1390664A	N/A - tan	No							60	20		5				15	
1401090003WM-237 1390664B	Mastic - tan	No							5			35		60			
1401090003WM-238 1390665	N/A - white/green	No							10	2		86			2		
1401090003WM-239 1390666	N/A - white	No							10	2		88					
1401090003WM-240 1390667	N/A - white	No							10	2		88					
1401090003WM-241 1390668	N/A - white	No							5	90		2		3			
1401090003WM-242 1390669	N/A - white	No							5	90		2		3			
1401090003WM-243 1390670	N/A - white	No							5	90		2		3			
1401090003WM-244 1390671	N/A - tan	Yes	< 1									97			3		
1401090003WM-245 1390672	N/A - white	No							10			90					
1401090003WM-246 1390673	N/A - white	No							10			90					
1401090003WM-247 1390674A	N/A - blue	No										60		40			X
1401090003WM-247 1390674B	Mastic - tan	No										50		50			
1401090003WM-248 1390675A	N/A - blue	No										60		40			



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 15, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC		
		Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint
Client Sample ID Hygeia Sample ID	Sample Description - color Comments															
1401090003WM-248 1390675B	Mastic - tan	No									50		50			
1401090003WM-249 1390676A	N/A - blue	No									60		40			
1401090003WM-249 1390676B	Mastic - tan	No									50		50			
1401090003WM-250 1390677	N/A - yellow	No								3	47		50			
1401090003WM-251 1390678	N/A - yellow	No								3	47		50			
1401090003WM-252 1390679	N/A - yellow	No								3	47		50			
1401090003WM-253 1390680A	N/A - tan	Yes	3								70		27			
1401090003WM-253 1390680B	Mastic - black	No									30		70			
1401090003WM-254 1390681A	N/A - tan	Yes	3								70		27			
1401090003WM-254 1390681B	Mastic - black	No									30		70			
1401090003WM-255 1390682A	N/A - tan	Yes	3								70		27			X
1401090003WM-255 1390682B	Mastic - black	No									30		70			
1401090003WM-256 1390683	N/A - white/black	No								30	40		30			
1401090003WM-257 1390684	N/A - white/black	No								30	40		30			
1401090003WM-258 1390685	N/A - white/black	No								30	40		30			
1401090003WM-259 1390686	N/A - grey/black	No							10		30		60			
1401090003WM-260 1390687	N/A - grey/black	No							10		30		60			
1401090003WM-261 1390688	N/A - grey/black	No							10		30		60			
1401090003WM-262 1390689	N/A - purple/grey	No									97			3		
1401090003WM-263 1390690	N/A - purple/grey	No									97			3		



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 15, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401090003WM-264 1390691	N/A - purple/grey	No										97			3		
1401090003WM-265 1390692A	N/A - tan	No							60	20		5				15	X
1401090003WM-265 1390692B	Mastic - tan	No							5			35		60			
1401090003WM-266 1390693A	N/A - tan	No							60	20		5				15	
1401090003WM-266 1390693B	Mastic - tan	No							5			35		60			
1401090003WM-267 1390694A	N/A - tan	No							60	20		5				15	
1401090003WM-267 1390694B	Mastic - tan	No							5			35		60			
1401090003WM-268 1390695	N/A - white	No							10	2		88					
1401090003WM-269 1390696	N/A - white	No							10	2		88					
1401090003WM-270 1390697	N/A - white	No							10	2		88					
1401090003WM-271 1390698	N/A - white	No							3	90		7					
1401090003WM-272 1390699	N/A - white	No							3	90		7					X
1401090003WM-273 1390700	N/A - white	No							2	90		5		3			
1401090003WM-274 1390701	N/A - white	No										100					
1401090003WM-275 1390702	N/A - white	No										100					
1401090003WM-276 1390703	N/A - white	No										100					
1401090003WM-277 1390704A	N/A - blue	No										60		40			
1401090003WM-277 1390704B	Mastic - tan	No										50		50			
1401090003WM-278 1390705A	N/A - blue	No										60		40			X
1401090003WM-278 1390705B	Mastic - tan	No										50		50			

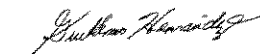


Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 15, 2014

Client Reference: 14-Z0187-0003		Asbestos Type, %						Non-Asbestos Constituents, %						QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite		Organic Binders	Paint	Perlite
1401090003WM-279 1390706A	N/A - blue	No										60		40			
1401090003WM-279 1390706B	Mastic - tan	No										50		50			
1401090003WM-280 1390707	N/A - yellow	No									2	48		50			
1401090003WM-281 1390708	N/A - yellow	No									2	48		50			
1401090003WM-282 1390709	N/A - yellow	No									2	48		50			
1401090003WM-283 1390710A	N/A - tan	Yes	3									70		27			
1401090003WM-283 1390710B	Mastic - tan	No										30		70			
1401090003WM-284 1390711A	N/A - tan	Yes	3									70		27			
1401090003WM-284 1390711B	Mastic - black	No										30		70			
1401090003WM-285 1390712A	N/A - tan	Yes	3									70		27			x
1401090003WM-285 1390712B	Mastic - black	No										30		70			



Microscopist - Guillermo Hernandez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

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Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

January 21, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006		Hygeia Reference No: 04139 14 0018													
		Samples Analyzed: 3 Sampler: R. Kuzmic Sample Condition: Acceptable					Date Collected: January 21, 2014 Date Received: January 21, 2014 Date Analyzed: January 21, 2014								
Client Reference: 14-Z0187-0003		Asbestos Type, %					Non-Asbestos Constituents, %								
Client Sample ID Hygeia Sample ID	Sample Description - color <i>Comments</i>	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders	QC
1401210003RK-286 1392125	N/A - black/grey/tan	No										20	80		
1401210003RK-287 1392126	N/A - black/tan	No										40	60		X
1401210003RK-288 1392127	N/A - black/grey/tan	No										30	70		

Microscopist - Fidel Gutierrez

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Arturo Casas - Supervisor of Optical Microscopy



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 24, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006	Samples Analyzed: 3 Sampler: W. Medina Sample Condition: Acceptable	<u>Hygeia Reference No.:</u> 04139 14 0022 Date Collected: January 2, 2014 Date Received: January 23, 2014 Date Analyzed: January 24, 2014
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Client Reference: 14-Z0187-0003

Client Sample ID Hygeia Sample ID	Sample Description Comments	Detection Limit	Gravimetric Reduction	Analytical Results	QC
1401020003WM-13 1389641P	N/A	0.04%	23% organic 36% acid soluble	<0.1% chrysotile	
1401020003WM-14 1389642P	N/A	0.03%	27% organic 39% acid soluble	<0.1% chrysotile	
1401020003WM-15 1389643P	N/A	0.04%	26% organic 37% acid soluble	<0.1% chrysotile	

Microscopist - Arturo Casas

The analyses of the samples in this report were performed using gravimetric matrix reduction and polarized light microscopy (PLM) in accordance with the EPA method 600/R-93/116 July 1993. The asbestos concentration was determined using the semi-quantitative point count method. On a per sample basis, the accuracy and precision of point count results are not known. The result should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory using the point count method. The limit of detection for this analytical method is 0.25 percent using 400 points and 0.10 percent using 1000 points (visual area estimates).

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

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Arturo Casas - Supervisor of Optical Microscopy



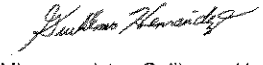
Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 24, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006	Samples Analyzed: 3 Sampler: W. Medina Sample Condition: Acceptable	<u>Hygeia Reference No.:</u> 04139 14 0023 Date Collected: January 7, 2014 Date Received: January 23, 2014 Date Analyzed: January 24, 2014
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Client Reference: 14-Z0187-0003					
Client Sample ID	Sample Description	Detection Limit	Gravimetric Reduction	Analytical Results	QC
Hygeia Sample ID	Comments				
1401070003WM-160 1390190P	N/A	0.05%	31% organic 23% acid soluble	<0.1% chrysotile	
1401070003WM-161 1390191P	N/A	0.05%	32% organic 22% acid soluble	<0.1% chrysotile	
1401070003WM-162 1390192P	N/A	0.04%	34% organic 25% acid soluble	<0.1% chrysotile	


Microscopist - Guillermo Hernandez

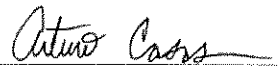
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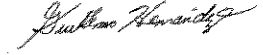
Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 24, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006	Samples Analyzed: 3 Sampler: W. Medina Sample Condition: Acceptable	<u>Hygeia Reference No.:</u> 04139 14 0024 Date Collected: January 8, 2014 Date Received: January 23, 2014 Date Analyzed: January 24, 2014
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Client Reference: 14-Z0187-0003					
Client Sample ID	Sample Description	Detection Limit	Gravimetric Reduction	Analytical Results	QC
Hygeia Sample ID	Comments				
1401080003WM-187 1390463P	N/A	0.05%	18% organic 29% acid soluble	<0.1% chrysotile	
1401080003WM-188 1390464P	N/A	0.04%	37% organic 26% acid soluble	<0.1% chrysotile	
1401080003WM-189 1390465P	N/A	0.06%	15% organic 29% acid soluble	<0.1% chrysotile	


Microscopist - Guillermo Hernandez

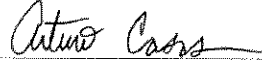
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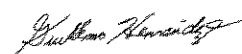
Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116 Point Count - 1000 Points

January 24, 2014

Ms. Yesenia Galeana Executive Environmental Services 310 E. Foothill Blvd., Suite 200 Arcadia, CA 91006	Samples Analyzed: 1 Sampler: W. Medina Sample Condition: Acceptable	<u>Hygeia Reference No.:</u> 04139 14 0025 Date Collected: January 9, 2014 Date Received: January 23, 2014 Date Analyzed: January 24, 2014
--	---	--

Client Reference: 14-Z0187-0003					
Client Sample ID Hygeia Sample ID	Sample Description Comments	Detection Limit	Gravimetric Reduction	Analytical Results	QC
1401090003WM-244 1390671P	N/A	0.05%	12% organic 37% acid soluble	0.26% chrysotile	



 Microscopist - Guillermo Hernandez


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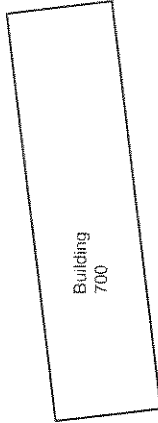
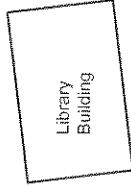
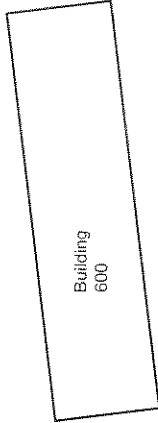
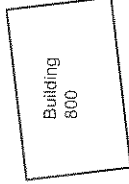
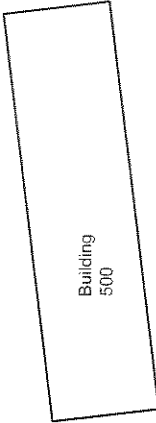
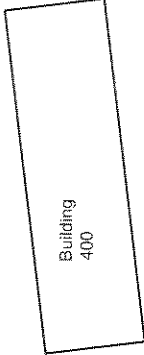
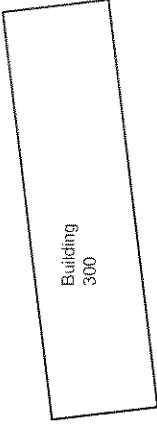
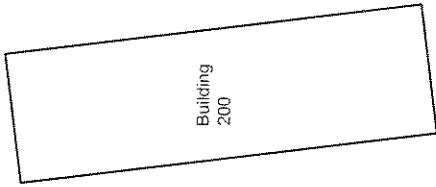
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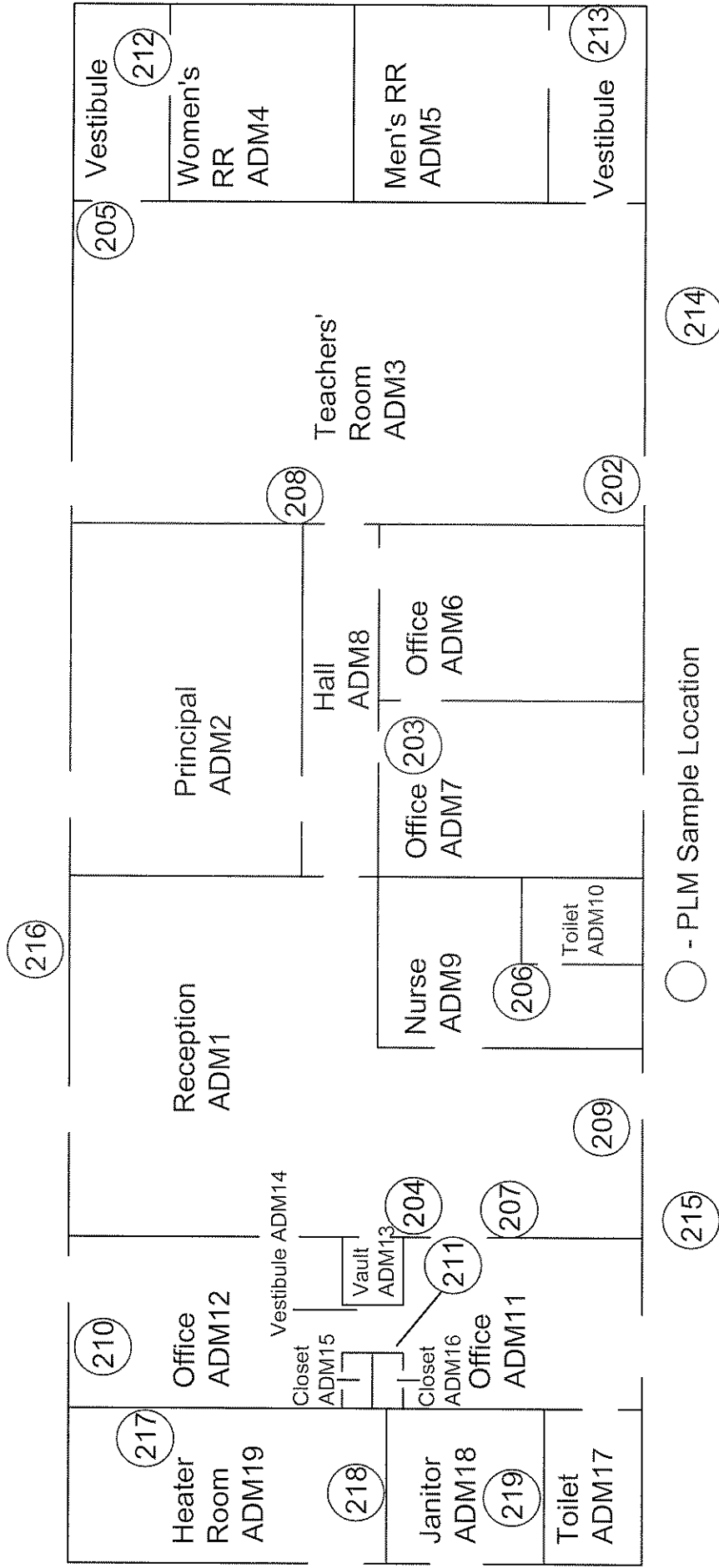
APPENDIX B – SITE DRAWING


Site Plan of Buildings to be Modernized



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Site Plan of Buildings to be Modernized
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Site Plan 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670 <small>Drawing Not to Scale - © 2012</small>

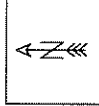
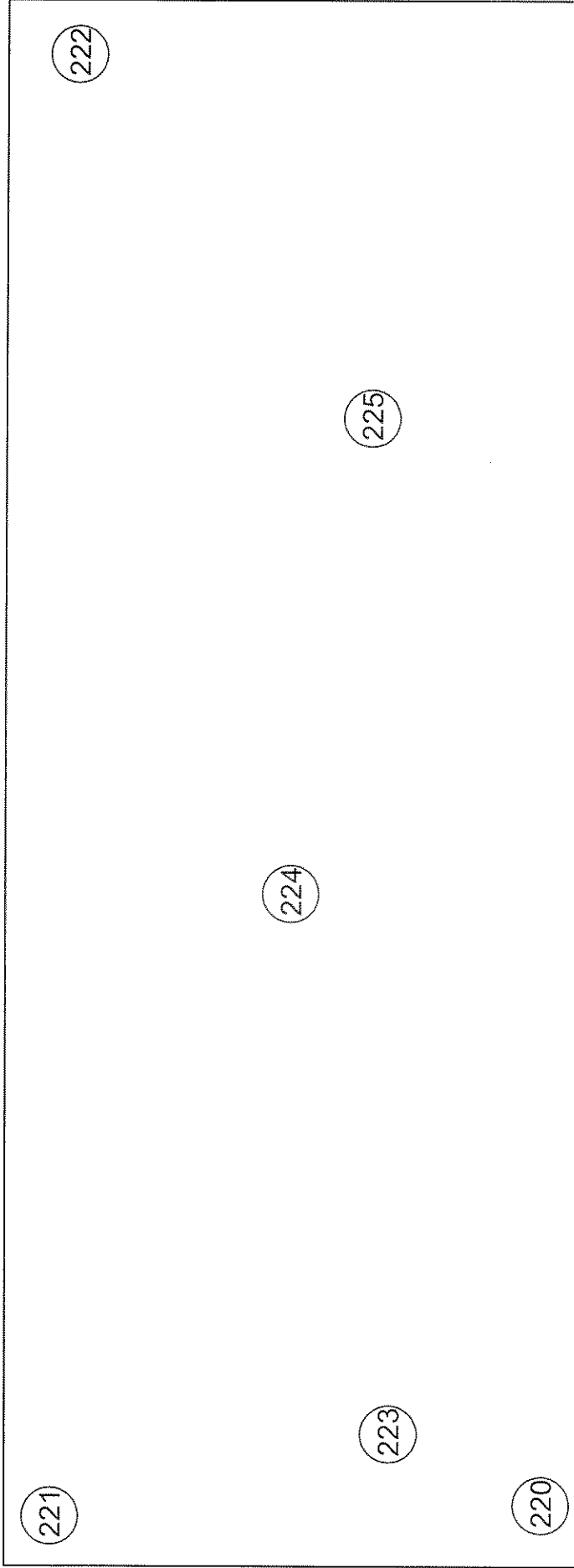
Administration Building



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Administration Bldg. 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670

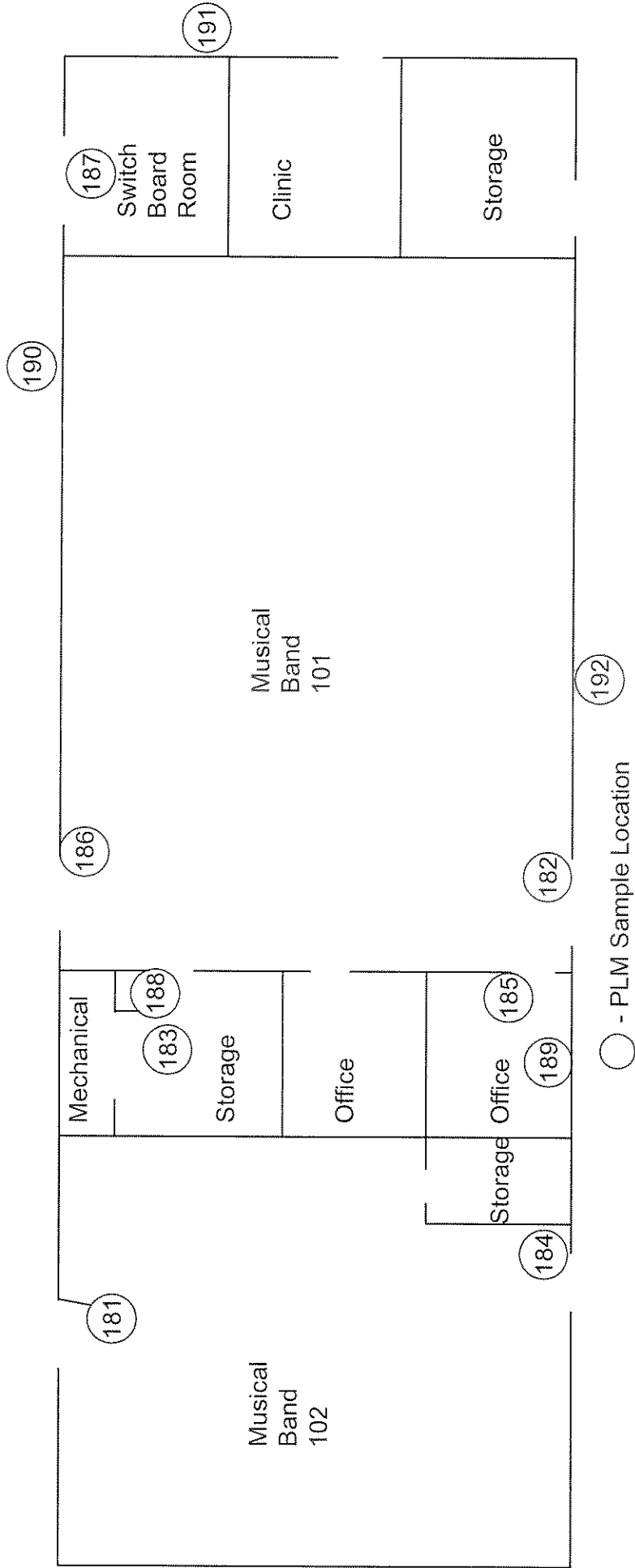
Drawing Not to Scale - © 2012

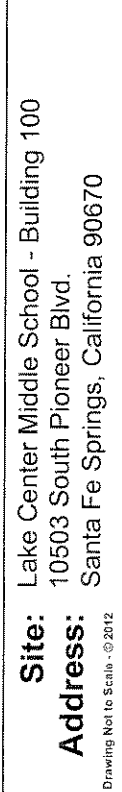
Administration Building Roof



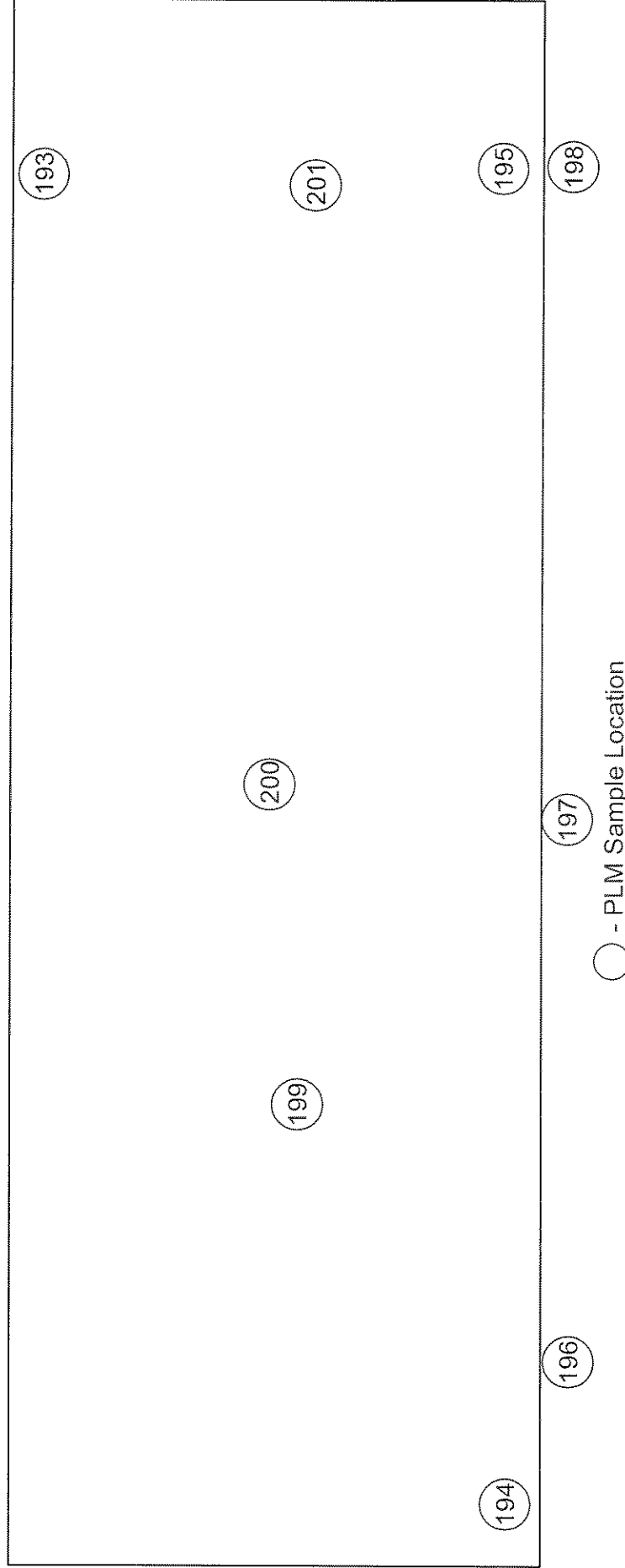
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Admin. Bldg. Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		


Building 100



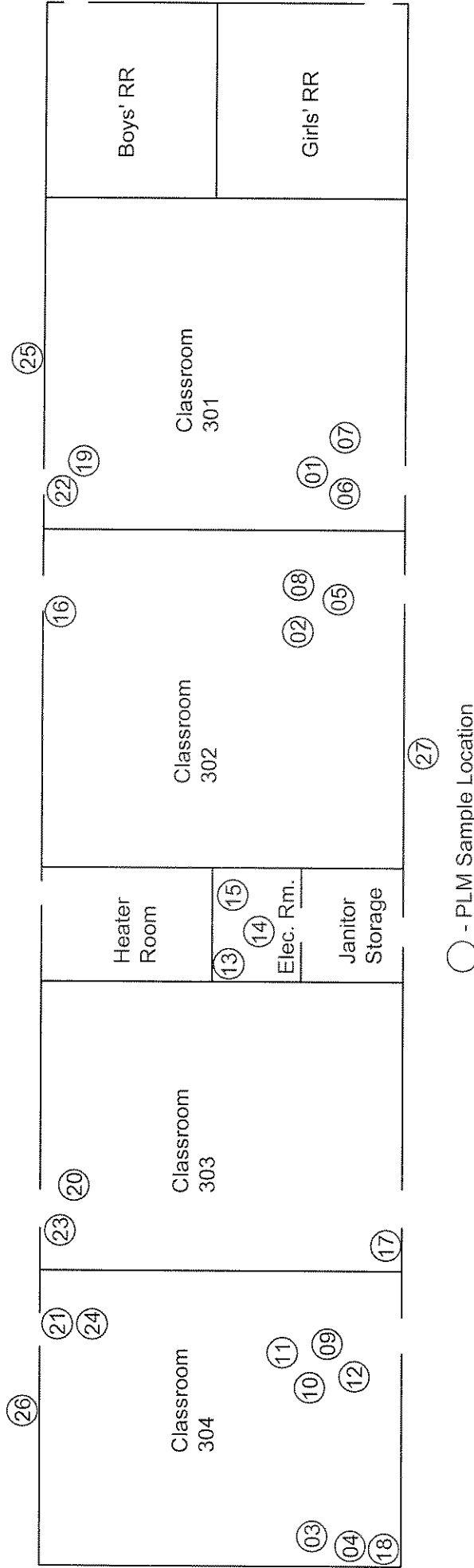
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations Site: Lake Center Middle School - Building 100 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670 <small>Drawing Not to Scale - © 2012</small>
		Info: PLM Bulk Sample Locations


Building 100 Roof



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 100 Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		

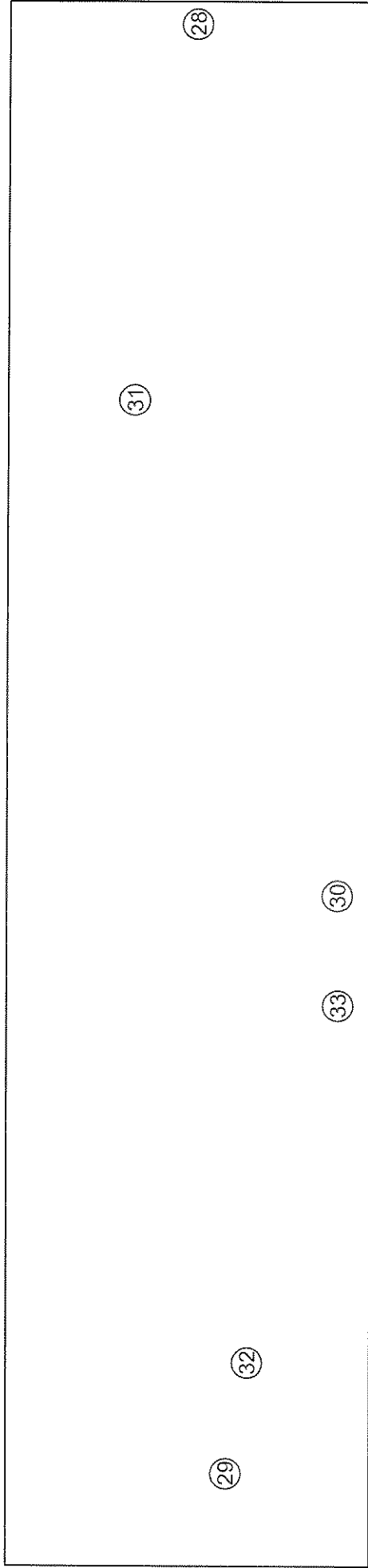
Building 300



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations	
		Site: Lake Center Middle School - Building 300 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670	


Drawing Not to Scale - © 2012

Building 300 Roof



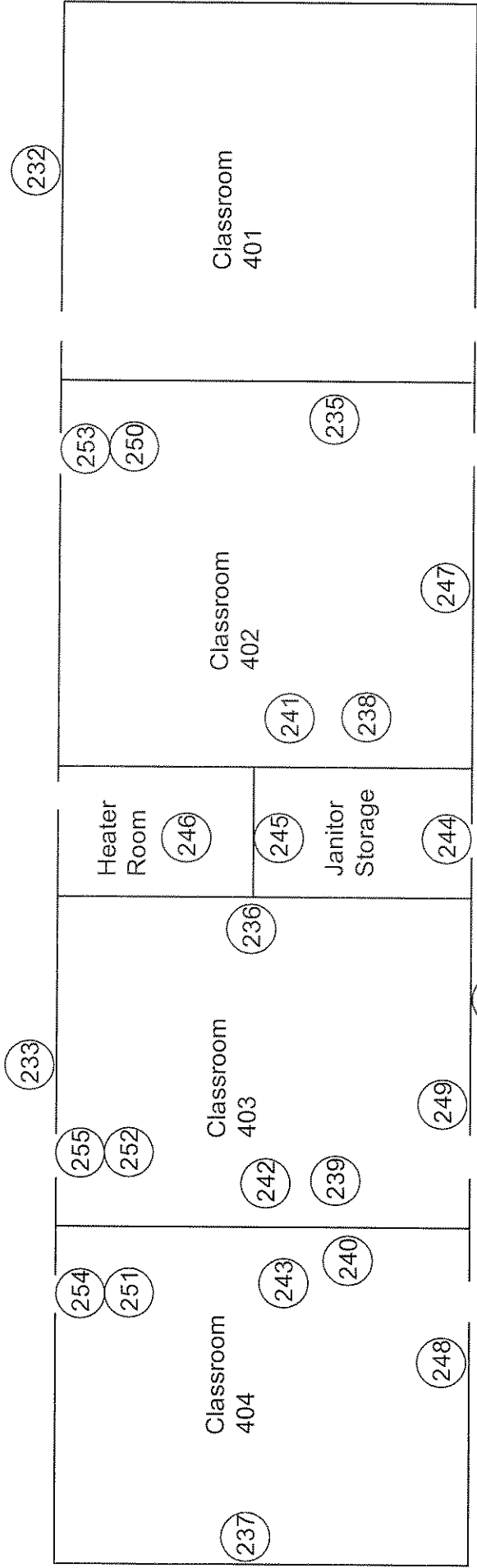
○ - PLM Sample Location




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED	Site: Lake Center Middle School - Building 300 Roof 10503 South Pioneer Blvd.	Address: Santa Fe Springs, California 90670

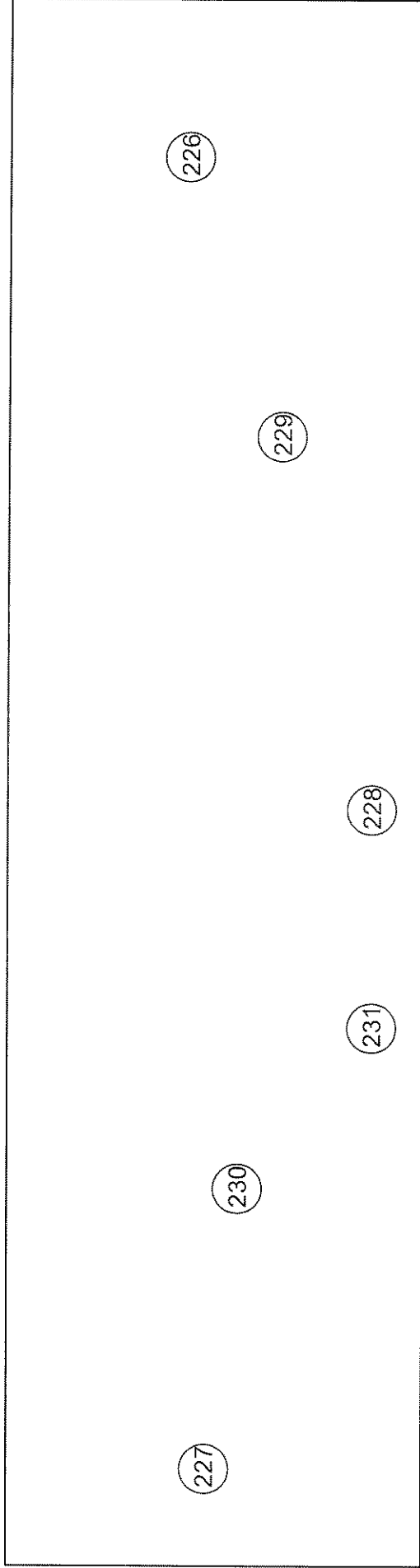
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Building 400




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations	
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Building 400 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670 <small>Drawing Not to Scale · © 2012</small>	

Building 400 Roof

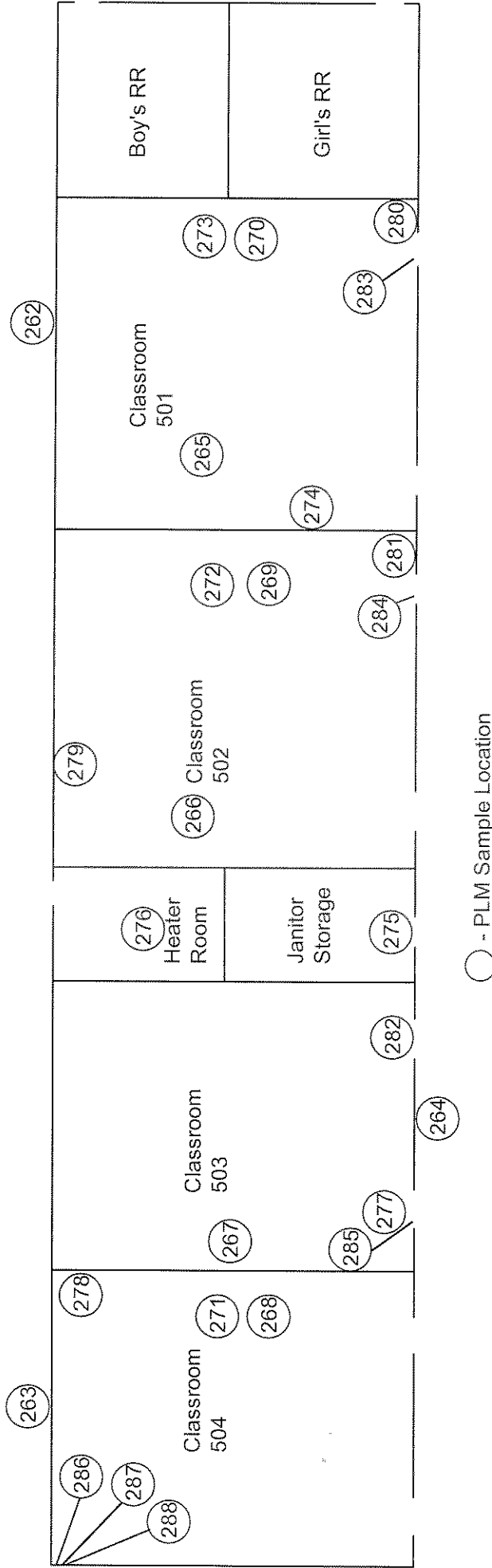



○ - PLM Sample Location



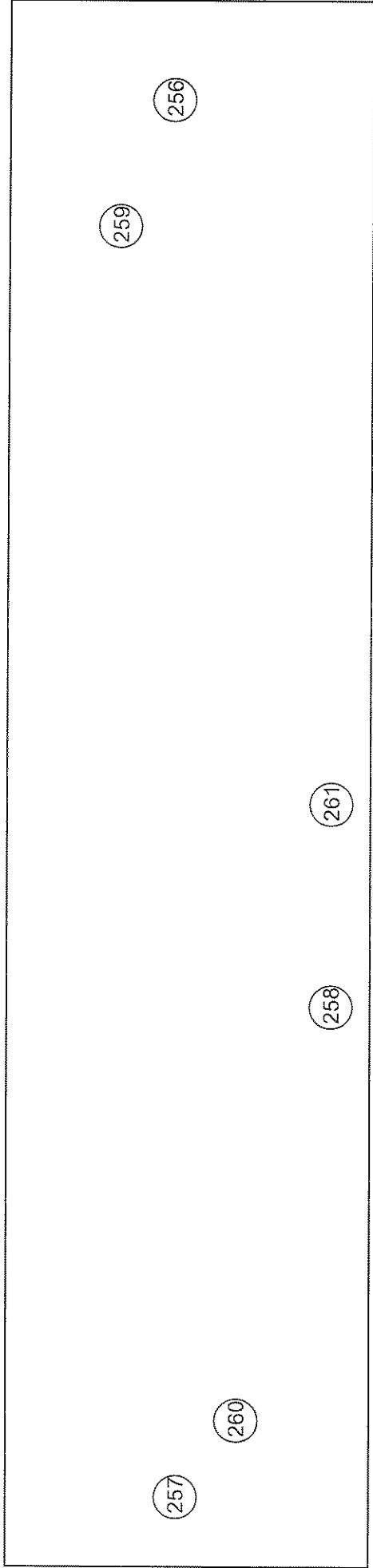
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 400 Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		

Building 500




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations	
		Site: Lake Center Middle School - Building 500 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670	
Drawing Not to Scale - © 2012			

Building 500 Roof

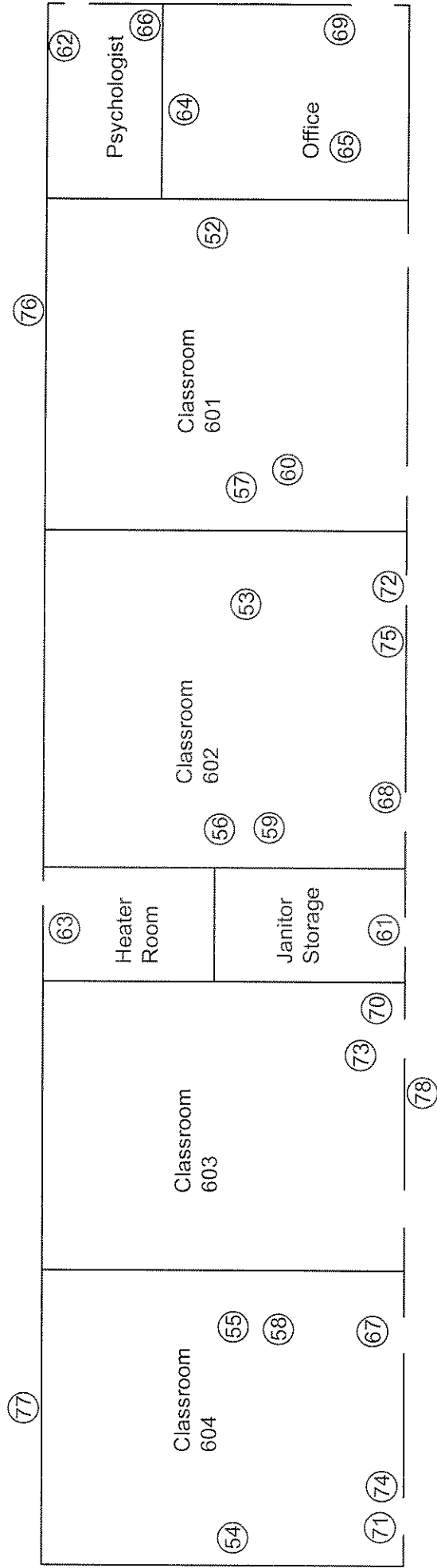



○ - PLM Sample Location



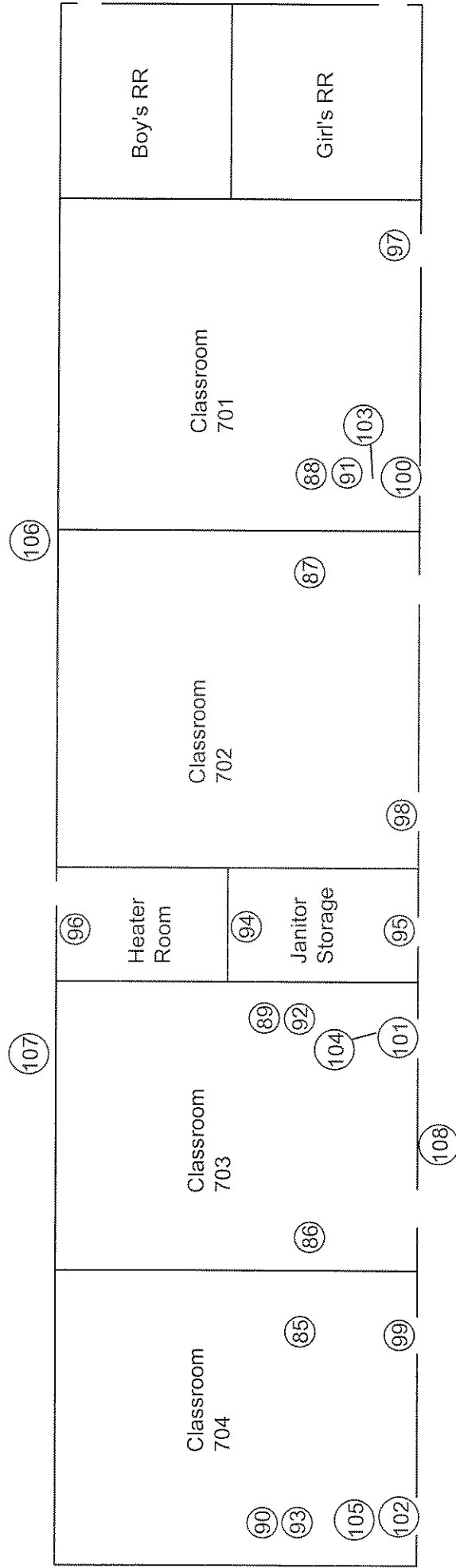
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 500 Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		


Building 600



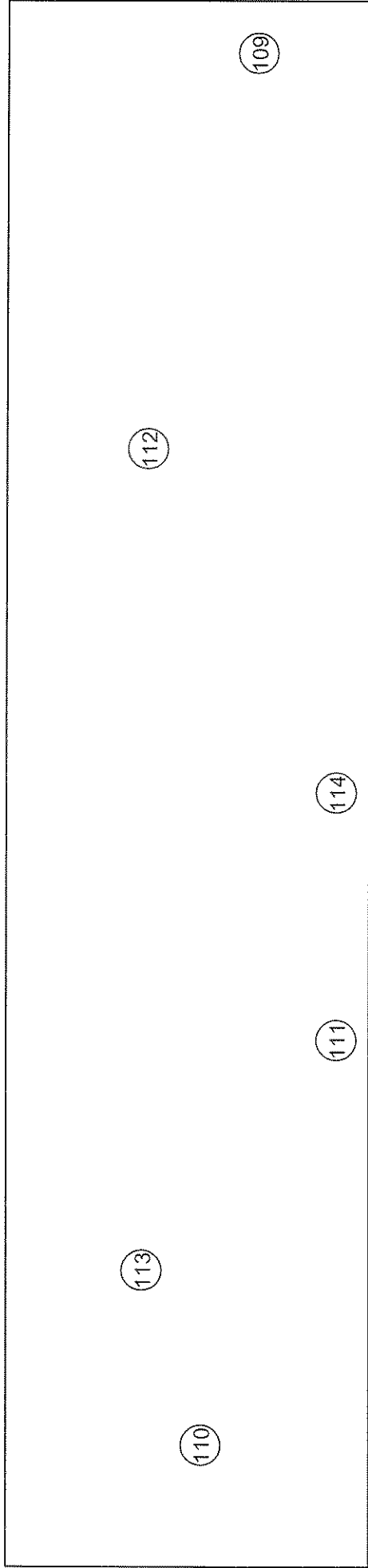
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 600 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Building 700




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations	
		Site: Lake Center Middle School - Building 700 10503 South Pioneer Blvd.	
		Address: Santa Fe Springs, California 90670	
Drawing Not to Scale - © 2012			

Building 700 Roof

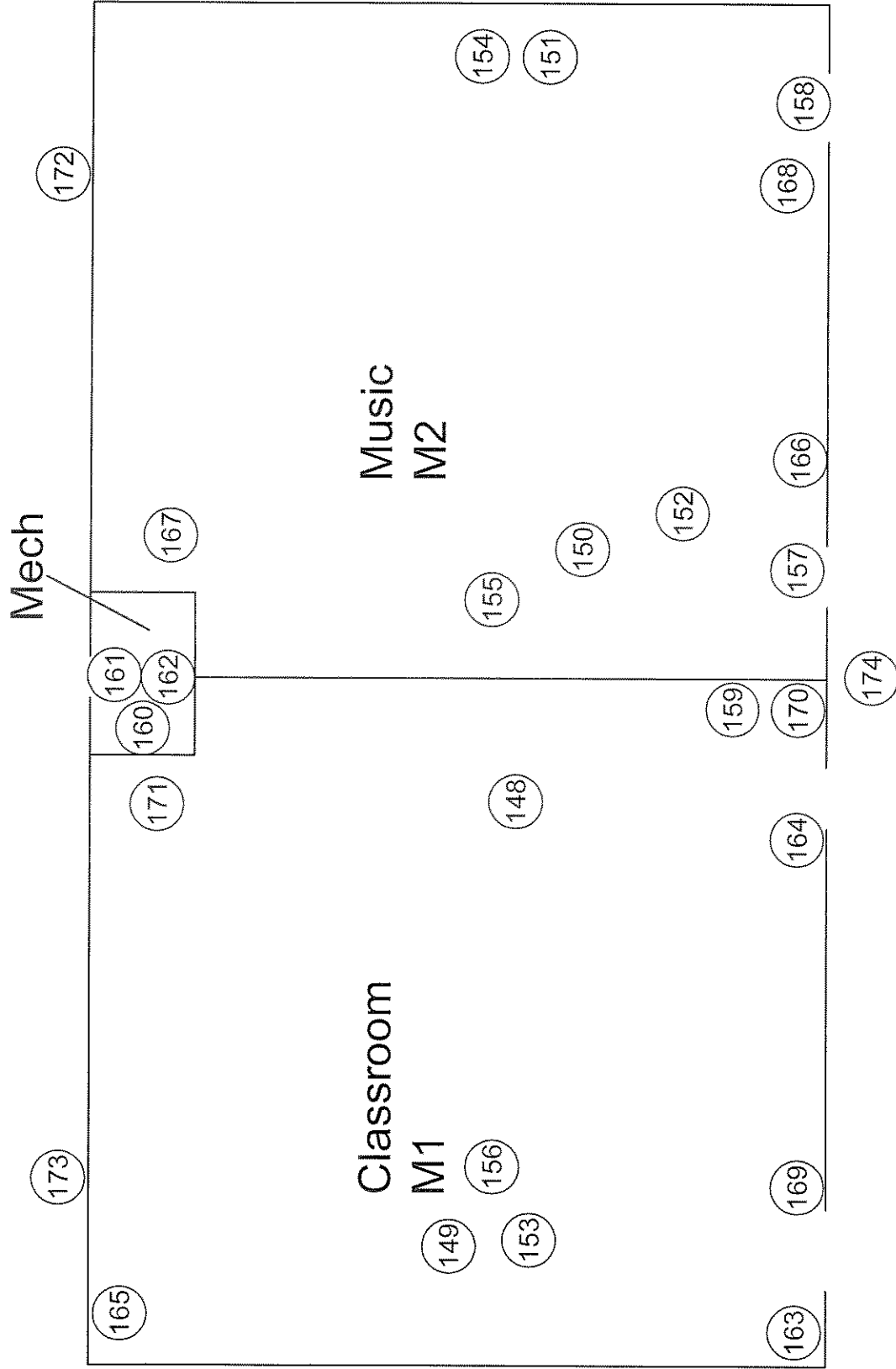


○ - PLM Sample Location



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 700 Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		

Building 800

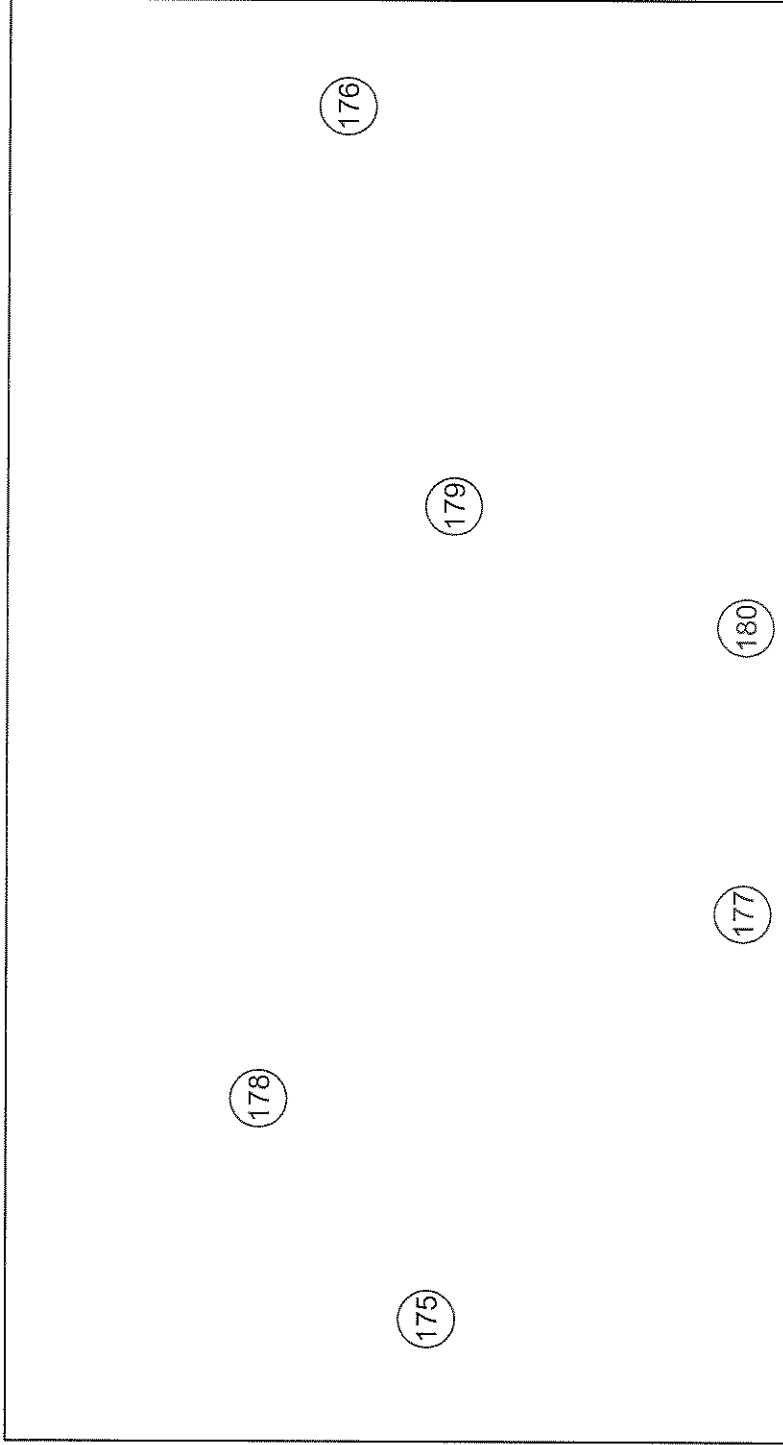


○ - PLM Sample Location

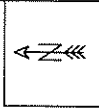
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 800 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

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Building 800 Roof



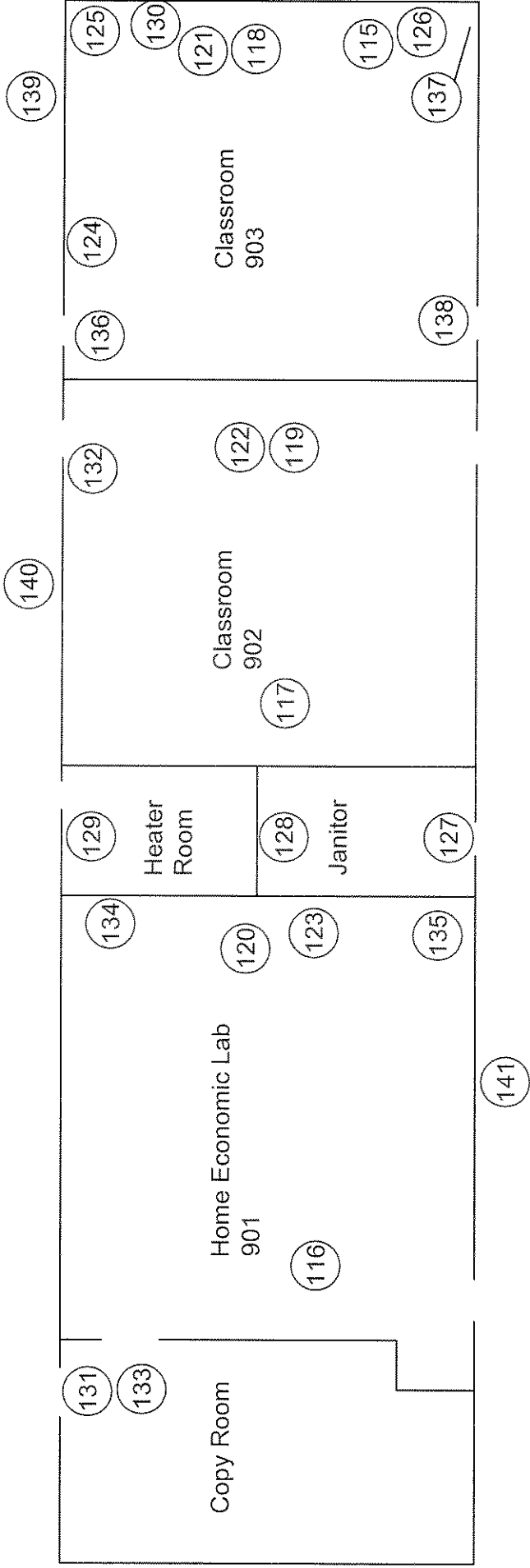
○ - PLM Sample Location



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Building 800 Roof Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670


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Building 900



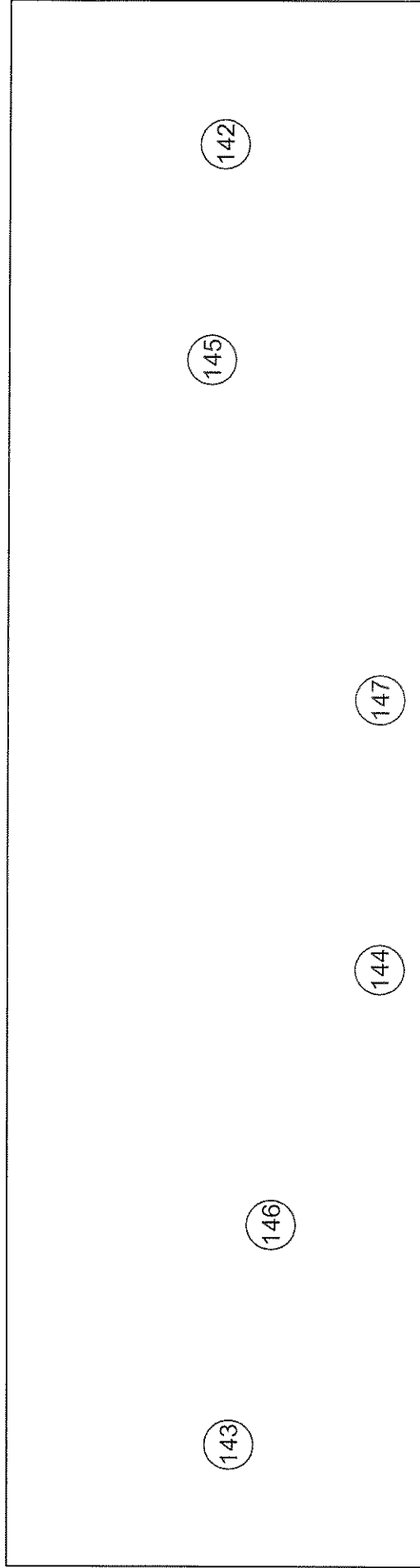
○ - PLM Sample Location



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations
		Site: Lake Center Middle School - Building 900 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

Building 900 Roof



○ - PLM Sample Location



Client: Little Lake City School District

Project #: 14-Z0187-0003

Info: PLM Bulk Sample Locations

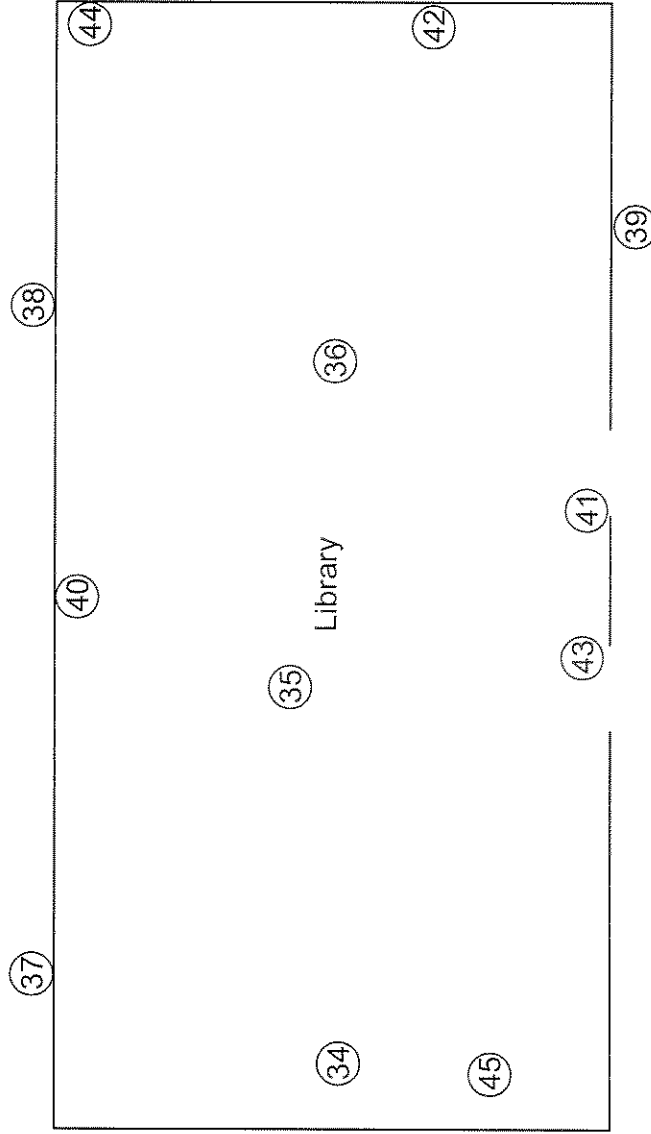


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Lake Center Middle School - Building 900 Roof
Address: 10503 South Pioneer Blvd.
Santa Fe Springs, California 90670

Drawing Note Seals - © 2012

Library Building



○ - PLM Sample Location



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: PLM Bulk Sample Locations Site: Lake Center Middle School - Library Building Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
		<small>Drawing Not to Scale - ©2012</small>

Library Building Roof



○ - PLM Sample Location



Client: Little Lake City School District

Project #: 14-Z0187-0003

Info: PLM Bulk Sample Locations



EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Lake Center Middle School - Library Building Roof
10503 South Pioneer Blvd.

Address: Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

**APPENDIX C – EE’S REPORT NO. 12-Z0187-0187
DATED AUGUST 2012**



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

ASBESTOS INSPECTION REPORT

Conducted at:

LAKE CENTER MIDDLE SCHOOL
200 BUILDING
10503 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared for:

MR. JOHN SHOOK
DIRECTOR OF FACILITIES, MAINTENANCE AND OPERATIONS
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 12-Z0187-0187
August 2, 2012

Report assembled by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report generated/reviewed by:

Tim Galeana, CAC # 98-2470
Senior Project Manager
Executive Environmental

TABLE OF CONTENTS

- I. EXECUTIVE SUMMARY
- II. SAMPLING METHODOLOGY
- III. SAMPLE ANALYSIS
- IV. FINDINGS
- V. CONCLUSIONS/RECOMMENDATIONS
- VI. DISCLAIMER/REPORT LIMITATIONS

APPENDICES

APPENDIX A – LABORATORY ANALYSIS REPORT

APPENDIX B – SITE DRAWING

ASBESTOS INSPECTION REPORT

Project Number: EE 12-Z0187-0187

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Lake Center Middle School
200 Building
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Use: School Property

Contact Person: Mr. John Shook
Director of Facilities, Maintenance and Operations
Phone: (562) 868-8241, ext. 247

Inspection Date: July 23, 2012

Inspected By: Mr. Wilson Medina
Certified Site Surveillance Technician, # 98-2346

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Site Surveillance Technician to conduct an asbestos inspection of the 200 Building at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California. The inspection was conducted as a precursor to planned renovations. Materials suspected of containing asbestos were sampled and analyzed for the presence of asbestos. Asbestos-containing materials were identified during this inspection.

II. SAMPLING METHODOLOGY

A visual inspection of select locations was conducted prior to the collection of any bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were collected. The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared, and the samples were delivered to the laboratory for analysis. Hygeia Laboratories, Incorporated, analyzed the samples using Polarized Light Microscopy (PLM). Hygeia Laboratories is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 102116-0, and is also accredited by the American Industrial Hygiene Association (AIHA), No. 465. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

Note: Inaccessible, suspect asbestos materials may be located within sealed ceilings, walls, or floors; or within wall cavities, interstitials, shafts, etc. Suspect asbestos materials located in these areas must be sampled prior to any activities that might cause them to be disturbed.

III. SAMPLE ANALYSIS

Thirty (30) suspect asbestos-containing samples were collected during this inspection. The laboratory analysis results are listed in the following table. Materials determined not to contain asbestos are listed as "No Asbestos Detected" (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered to be an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed, because the entire homogeneous area must be considered positive.

**Sampling results begin on the next page.
The remainder of this page is blank.**

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
200 Building
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
200 Building^A						
HMN-01	Interior plaster	Rooms 203, 204 walls only and men's and women's restrooms walls and ceilings	1,500 SF	1207230187WM-01	Room 204, walls	NAD ^B
				1207230187WM-02	Women's restroom	NAD
				1207230187WM-03	Men's restroom	NAD
HMN-02	Vinyl basecove with glue	Rooms 201 through 204 and office	600 SF	1207230187WM-04	Room 202	NAD
				1207230187WM-05	Room 203	NAD
				1207230187WM-06	Room 204	NAD
HMN-03	Blue sheet flooring, core sample (over 9" vinyl tile)	Rooms 203 and 204	1,800 SF	1207230187WM-07	Room 203	Layers A-B: NAD Layers C-D: 5% chrysotile
				1207230187WM-08	Room 203	Layers A-B: NAD Layers C-D: 5% chrysotile
				1207230187WM-09	Room 204	Layer A: NAD Layers B-C: 5% chrysotile

Note: This table must be used in conjunction with the entire report.

^A The following materials were identified as non-suspect materials: interior wood walls in rooms 201 & 202, interior and exterior perimeter brick walls, self-stick carpet in 201, terrazzo flooring in the restrooms and wood ceiling on arcade.
^B NAD = "No Asbestos Detected"

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
200 Building
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Classroom Building 200						
HMN-04	12"x12" Blue vinyl tile with glue, core sample (over 9" tile)	Room 202	900 SF	1207230187WM-10	Room 202	Layer A: NAD
				1207230187WM-11	Room 202	Layers B-C: 5% chrysotile
				1207230187WM-12	Room 202	Layers A-B: NAD Layers C-D: 5% chrysotile
HMN-05	9"X9" Tan vinyl tile and mastic (under carpet)	Rooms 201, office, passage way	500 SF	1207230187WM-13	Room 201	Layer A: NAD
				1207230187WM-14	Passage way	Layers B-C: 5% chrysotile
				1207230187WM-15	Office	Tile: 5% chrysotile
				1207230187WM-16	Room 202	Mastic: 5% chrysotile
HMN-06	Window putty	Interior building perimeter (metal frames only)	100 SF	1207230187WM-17	Room 203	Tile: 5% chrysotile
				1207230187WM-18	Room 204	Mastic: 5% chrysotile
				1207230187WM-19	Roof top	Tile: 5% chrysotile Mastic: 5% chrysotile
HMN-07	Roll roof core	Throughout roof top and arcade	6,000 SF	1207230187WM-20	Roof top	<1% chrysotile
				1207230187WM-21	Roof top	<1% chrysotile
				1207230187WM-22	Roof top	<1% chrysotile
HMN-08	Roof penetration mastic	Throughout roof top and arcade	10 SF	1207230187WM-23	Roof top	NAD
				1207230187WM-24	Roof top	NAD

Note: This table must be used in conjunction with the entire report.

BULK SAMPLE ANALYSIS DATA (PLM)

Lake Center Middle School
200 Building
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Homogeneous Material #	Material Description	Material Location	Approx. Qty.	Sample Number	Sample Location	Analytical Results
Classroom Building 200						
HMN-09	Texture coat ceiling	Metal arcade ceiling on south side	400 SF	1207230187WWM-25 1207230187WWM-26 1207230187WWM-27	South arcade ceiling South arcade ceiling South arcade ceiling	NAD NAD NAD
HMN-10	Stucco	Throughout exterior overhangs	1,500 SF	1207230187WWM-28 1207230187WWM-29 1207230187WWM-30	Exterior Exterior Exterior	NAD NAD NAD
HMN-11	2'x2' random ceiling tile (nailed on, no glue)	Rooms 201 through 204	4,000 SF	---	---	NAD per EE's report dated May 17, 2011.

HAZARDOUS MATERIALS
 Lake Center Middle School
 200 Building
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Homo Material #	Material Description	Material Location	Approximate Quantity
Classroom Building 200			
HMN-12	PCB-containing ballasts	Rooms 201 through 204 and office	54 ea.
HMN-13	Freon-containing HVAC units	Exterior east side of Building	5 ea.
HMN-14	Florescent light tubes	Rooms 201 through 204 and office	108 ea.
HMN-15	Mercury-containing thermostat	Rooms 202 and 203	4 ea.

IV. FINDINGS

EE conducted an asbestos inspection of the 200 Building at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California.

One (1) homogeneous material group was identified during the visual property inspection. Three (3) samples of suspect asbestos-containing materials were collected and delivered to Hygeia Laboratories, Incorporated, for analysis. The homogeneous areas and sampling results are listed on the table in Section III.

Building 200:

- Blue sheet flooring with glue: The blue sheet flooring with glue over 9" tile located in rooms 203 and 204 tested positive for asbestos content.
- 12"x12" Blue vinyl floor tile with glue: The 12"x12" blue vinyl tile with glue over 9" tile located in room 202 tested positive for asbestos content.
- 9"x9" Tan floor tile and mastic: The 9"x9" tan floor tile and mastic under the carpet located in rooms 201, office and passage way tested positive for asbestos content.
- Window putty: The interior window putty located throughout metal windows contains <1% chrysotile asbestos. Cal/OSHA requires special handling of this material. If this material is impacted, it is recommended that additional testing be performed in accordance with NESHAP.
- PCB-Containing Ballast: PCB-containing ballasts are located in the rooms 201 through 204 and office.
- Mercury-Containing Thermostat: Mercury-containing thermostats are located rooms 202 and 203.
- Freon-Containing AC Unit: Freon-containing AC units are located on the exterior east side of building.
- Florescent Light Tube: Florescent light tubes are located in the rooms 201 through 204 and office.

V. CONCLUSIONS/RECOMMENDATIONS

Normally, asbestos-containing material found to be in good condition is not considered a hazard, unless it is disturbed. Prior to the start of any activity, such as remodeling, demolition, or renovation, that might disturb this material, a Certified Asbestos Consultant should be contracted to design and monitor the project. A California-licensed asbestos contractor should be hired to complete the asbestos abatement procedures.

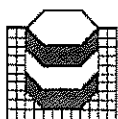
If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT



Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

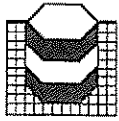
NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1268

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

July 24, 2012

Client Reference: 12-Z0187-0187		Asbestos Type, %											Non-Asbestos Constituents, %					QC
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders	Paint			
1207230187WM-01 1322979	N/A - white/tan	No										98			2			
1207230187WM-02 1322980	N/A - tan	No										100						
1207230187WM-03 1322981	N/A - tan	No										100						
1207230187WM-04 1322982A	N/A - blue	No										70		30				
1207230187WM-04 1322982B	Mastic - white	No										60		40				
1207230187WM-05 1322983A	N/A - blue	No										70		30				
1207230187WM-05 1322983B	Mastic - white	No										60		40				
1207230187WM-06 1322984A	N/A - blue	No										70		30				
1207230187WM-06 1322984B	Mastic - white	No										60		40				
1207230187WM-07 1322985A	N/A - blue	No							60			20		20				
1207230187WM-07 1322985B	Mastic - yellow	No							10			30		60				
1207230187WM-07 1322985C	N/A - brown	Yes	5									75		20				
1207230187WM-07 1322985D	Mastic - black	Yes	5									40		55				
1207230187WM-08 1322986A	N/A - blue	No							60			20		20				
1207230187WM-08 1322986B	Mastic - yellow	No							10			30		60				
1207230187WM-08 1322986C	N/A - brown	Yes	5									75		20				

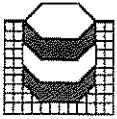


Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

July 24, 2012

Client Reference: 12-Z0187-0187		Asbestos Type, %						Non-Asbestos Constituents, %					QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers		Vermiculite	Organic Binders	Paint
1207230187WM-08 1322986D	Mastic - black	Yes	5									40		55		
1207230187WM-09 1322987A	N/A - blue <i>Insufficient mastic</i>	No							60			20		20		
1207230187WM-09 1322987B	N/A - brown	Yes	5									75		20		
1207230187WM-09 1322987C	Mastic - black	Yes	5									40		55		
1207230187WM-10 1322988A	N/A - blue <i>Insufficient mastic</i>	No										80		20		
1207230187WM-10 1322988B	N/A - brown	Yes	5									75		20		
1207230187WM-10 1322988C	Mastic - black	Yes	5									40		55		
1207230187WM-11 1322989A	N/A - blue	No										80		20		
1207230187WM-11 1322989B	Mastic - yellow	No										60		40		
1207230187WM-11 1322989C	N/A - brown	Yes	5									75		20		
1207230187WM-11 1322989D	Mastic - black	Yes	5									40		55		
1207230187WM-12 1322990A	N/A - blue	No										80		20		
1207230187WM-12 1322990B	Mastic - yellow	No										60		40		
1207230187WM-12 1322990C	N/A - brown	Yes	5									75		20		
1207230187WM-12 1322990D	Mastic - black	Yes	5									40		55		
1207230187WM-13 1322991A	N/A - brown	Yes	5									75		20		
1207230187WM-13 1322991B	Mastic - black	Yes	5									40		55		
1207230187WM-14 1322992A	N/A - brown	Yes	5									75		20		
1207230187WM-14 1322992B	Mastic - black	Yes	5									40		55		



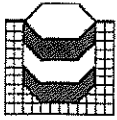
Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

July 24, 2012

Client Reference: 12-Z0187-0187		Asbestos Type, %						Non-Asbestos Constituents, %					QC			
Client Sample ID Hygeia Sample ID	Sample Description - color Comments	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers		Vermiculite	Organic Binders	Paint
1207230187WM-15 1322993A	N/A - brown	Yes	5									75		20		
1207230187WM-15 1322993B	Mastic - black	Yes	5									40		55		
1207230187WM-16 1322994	N/A - tan	Yes	< 1									98			2	
1207230187WM-17 1322995	N/A - tan	Yes	< 1									98			2	X
1207230187WM-18 1322996	N/A - tan	Yes	< 1									98			2	
1207230187WM-19 1322997	N/A - grey/black	No							2	20		38		40		
1207230187WM-20 1322998	N/A - grey/black	No							2	20		38		40		
1207230187WM-21 1322999	N/A - grey/black	No							2	20		38		40		
1207230187WM-22 1323000	N/A - black	No							20			40		40		X
1207230187WM-23 1323001	N/A - black	No							20			40		40		
1207230187WM-24 1323002	N/A - black	No							20			40		40		
1207230187WM-25 1323003	N/A - purple/white	No										40			60	
1207230187WM-26 1323004	N/A - purple/white	No										40			60	
1207230187WM-27 1323005	N/A - purple/white	No										40			60	
1207230187WM-28 1323006	N/A - purple/grey	No										98			2	
1207230187WM-29 1323007	N/A - purple/grey	No										98			2	X
1207230187WM-30 1323008	N/A - purple/grey	No										98			2	

Microscopist - Fidel Gutierrez



Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

July 24, 2012

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas - Supervisor of Optical Microscopy

APPENDIX B – SITE DRAWING



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LEAD-BASED PAINT/CERAMIC TILE INSPECTION REPORT

Conducted at:

LAKE CENTER MIDDLE SCHOOL
MODERNIZATION PROJECT
10503 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared for:

MR. JOHN SHOOK
DIRECTOR OF FACILITIES, MAINTENANCE AND OPERATIONS
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 14-Z0187-0003
January 30, 2014

Report generated/reviewed by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:

Tim Galeana, CLP
Senior Project Manager
Executive Environmental

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LEAD-BASED PAINT/CERAMIC TILE INSPECTION

Project Number: EE 14-Z0187-0003

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Lake Center Middle School
Modernization Project
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Use: School Property

Contact Person: Mr. John Shook
Director of Facilities, Maintenance and Operations
Phone: (562) 868-8241, ext. 247

Inspection Date: January 02 through 08, 2014

Inspected By: Mr. George Valverde
Certified Lead Professional, DHS # 18093

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Lead Professional, DHS # 3732

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Lead Professional (CLP) to conduct a lead-containing based paint/ceramic tile inspection of the interior and exterior surfaces of the following buildings: Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California. The inspection was conducted as a precursor to the upcoming Modernization Project. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Lead-based paint and lead-containing ceramic glaze were detected during this inspection. EE's CLP conducted these services between January 02 through 08, 2014.

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of

at least 1.0 mg/cm² (milligrams per centimeter squared) by X-Ray Fluorescent (XRF), or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program, established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm² via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm² action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction, Code of Federal Regulations, Title 29, Section 1926 (abbreviated as 29 CFR 1926). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the interior and exterior surfaces of the following buildings: Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being lead-containing paint or ceramic tile. After identifying the materials suspected of containing lead paint or ceramic tile, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g., classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm²). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Niton Corporation.

The following specifications apply to the Niton XRF:

- Ability to report both the K and L shell line x-ray emission energies simultaneously and report the lead concentration in mg/cm².

- Accuracy for a single reading on all building materials within 0.2 mg/cm², at 95 percent confidence, at 0 to 1 mg/cm².
- Equipped with a 40 milli-curie (mCi) cadmium, 109-sealed, radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state, and federal standards, the following components that were analyzed with the Niton XRF instrument during this inspection are considered to be positive for lead content.

SAMPLE ANALYSIS DATA Lake Center Middle School Modernization Project 10503 South Pioneer Boulevard Santa Fe Springs, California 90670				
Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
Administration Building				
Throughout interior	Walls	Wood	1,200 SF	1.6-1.8
		Brick	1,800 SF	1.7
Throughout restrooms and restroom vestibules	Ceilings	Wood	400 SF	1.2
Throughout restroom vestibules	Baseboards	Wood	30 LF	1.2
Restrooms and janitor's room	Sinks	Metal	5 Total	25.2-47.1
Throughout interior and exterior	Window frames	Wood	38 Total	0.9-1.2
Throughout exterior	Window sash	Metal	38 Total	1.7
Administration office #11	Door frame	Wood	1 Total	1-1.7
Throughout exterior (north and south)	Door frames	Wood	8 Total	1.7
Exterior	Overhang ceiling	Wood	1,480 SF	3.6
	Fascia	Wood	270 LF	1.8
	Gutter	Metal	190 LF	0.8

Note: This table must be used in conjunction with the entire report.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
100 Building				
Throughout interior	Walls	Wood	1,500 SF	0.8
		Brick	3,000 SF	0.9
Throughout interior	Door frames	Wood	7 Total	0.8
		Metal	1 Total	1.1
Throughout interior and exterior	Window frames	Wood	34 Total	0.7-1.9
Throughout exterior	Doors	Wood	9 Total	2.2
	Door frames	Wood	6 Total	1.8
		Metal	1 Total	1
	Window sash	Metal	34 Total	1.7
	Covered walkway ceiling	Wood	1,400 SF	2.2
	Overhang ceiling	Wood	420 SF	2.3
	Fascia	Wood	300 LF	2
Covered walkway beam	Wood	400 LF	1.8	
200 Building^A				
Men's restroom	Sink	Porcelain	2 EA	Positive per EE's Report 12-0187 Dated August 2012
Rooms 201 through 204 interior	Windows components	Wood	16 EA	
Exterior lower windows	Window sills	Wood	16 EA	
Room 203, interior	Sink faucet and drinking fountain	Metal	1 EA	

Note: This table must be used in conjunction with the entire report.

^A Building 200: rooms 203 and 204 have bare metal sinks.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
300 Building^B				
Rooms 301 through 304, electrical room, janitor storage, boys' and girls' restrooms	Walls	Brick	3,400 SF	1-1.1
Throughout interior	Window frames	Wood	72 Total	0.7
Janitor storage interior	Door frame	Wood	2 Total	1.2
Throughout exterior	Door frame	Wood	9 Total	2.3
	Door	Wood	10 Total	3
Janitor storage interior	Sink	Metal	1 Total	38.8
Boys' and Girls' restrooms	Ceiling	Wood	440 SF	1.1
Throughout exterior	Window sash	Metal	52 Total	1.2
	Window frame	Wood	72 Total	2.1
	Covered walkway ceiling	Wood	340 SF	2.1
	Overhang ceiling	Wood	400 SF	3.7

Note: This table must be used in conjunction with the entire report.

^B Note: 1) Classrooms ceilings have 1'x1' ceiling tiles.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
400 Building				
Interior: rooms 401 through 404	Walls	Brick	2,550 SF	0.7
Throughout interior	Window frames	Wood	68 Total	1.4
	Window sash	Metal	48 Total	0.7
Room 404	Cabinet	Wood	260 SF	1.7
	Beam	Wood	130 LF	10.1
Janitor/storage	Door frame	Wood	1 Total	1.4
Heater room (interior/exterior)	Door frame	Metal	1 Total	0.9-1.4
Throughout exterior	Window frames	Wood	68 Total	1.9
	Window sash	Metal	48 Total	2.5
	Covered walkway ceiling	Wood	380 SF	3.6
	Overhang ceiling	Wood	340 SF	1.8
	Fascia	Wood	360 LF	2.9
	Downspout	Metal	48 LF	0.9-2.6
	Door	Wood	10 Total	23
	Door frames	Wood	9 Total	1.2
	Door frames	Metal	1 Total	1.4

Note: This table must be used in conjunction with the entire report.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
500 Building^C				
Throughout exterior	Fascia	Wood	360 LF	2.4
	Overhang ceiling	Wood	336 SF	2.4
	Downspout	Metal	48 LF	2.8
	Wall vent	Metal	1 Total	1.7
600 Building^D				
Interior: Room 601 through 604, office, Psychologist	Window frames	Wood	68 Total	0.7
Throughout exterior	Overhang ceiling	Wood	340 SF	1.6
	Covered walkway ceiling	Wood	380 SF	2.2
	Fascia	Wood	360 LF	1.2
	Gutter	Metal	135 LF	1.7
	Downspout	Metal	48 LF(3 total)	1.2

Note: This table must be used in conjunction with the entire report.

^C No lead based paint or lead containing materials identified in the interior.

^D Note: Building 600 – classrooms 601 through 604 throughout 1'x1' ceiling tile. 2) Office and Psychologist 2'x4' ceiling panels.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
700 Building				
Throughout interior	Walls	Wood	480 SF	2.7
	Cabinets	Wood	640 SF	2
	Beams	Wood	520 LF	1.8
Throughout interior and exterior	Window frames	Wood	68 Total	2.4-5.1
	Door frames	Wood	11 Total	2.3-4.6
Janitor storage	Attic hatch	Wood	1 Total	3.8
Janitor storage	Sink	Metal	1 Total	31.8
Boys' and girls' restroom	Sinks	Porcelain	6 Total	27.8
	Ceiling	Wood	440 SF	2.1
Heater room	Door	Wood	1 Total	1.1
Throughout exterior	Overhang ceiling	Wood	340 SF	1.8
	Covered walkway ceiling	Wood	380 SF	3.3
	Fascia	Wood	360 LF	2.2
	Downspout	Metal	48 LF(3total)	1.9
	Conduit	Metal	1,440 LF	4

Note: This table must be used in conjunction with the entire report.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
800 Building				
Rooms M1 and M2	Beam	Wood	260 LF	2.6
	Wall	Wood	480 SF	2
	Soffit	Wood	32 SF	2.6
	Cabinet	Wood	352 SF	4.8
	Baseboard	Wood	212 LF	4.6
Throughout interior and exterior	Window frames	Wood	32 Total	3.2-8
	Door frames	Wood	4 Total	2.9-3.9
Throughout exterior	Conduit	Metal	120 LF	1.1
	Covered walkway ceiling	Wood	480 SF	4.5
	Overhang ceiling	Wood	480 SF	2.2
	Fascia	Wood	200 LF	6.3
	Gutter	Metal	60 LF	3.2
	Downspout	Metal	28 LF (2 total)	1.6
	Door	Wood	5 Total	2

Note: This table must be used in conjunction with the entire report.

SAMPLE ANALYSIS DATA
 Lake Center Middle School
 Modernization Project
 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670

Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
900 Building				
Interior: Room 901 through 903, copy room, janitor/student store	Walls	Brick	3,300 SF	1-1.2
Room 902	Cabinet door	Wood	114 SF	3.3
Rooms 901 through 903, copy room	Beam	Wood	612 lf	1.1
Throughout interior and exterior	Window frames	Wood	55 Total	1-1.8
Janitor/student store	Door frames	Wood	1 Total	0.9
Throughout exterior	Door frames	Wood	7 Total	1.4
	Doors	Wood	8 Total	2.5
	Covered walkway ceiling	Wood	380 SF	4
	Overhang ceiling	Wood	380 SF	2.9
	Fascia	Wood	360 LF	2.4
	Window sash	Metal	34 Total	1.8
	Gutter	Metal	135 LF	1.2
	Downspout	Metal	48 LF (3 total)	3.5
Library Building				
No regulated interior or exterior lead-based paint/ceramic tile was identified for the Library (Building 7).				

Note: This table must be used in conjunction with the entire report.

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a lead-based paint/ceramic tile inspection of the interior and exterior surfaces of the following buildings: Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 at Lake Center Middle School, located at 10503 Pioneer Boulevard, Santa Fe Springs, California. The following conclusions and/or recommendations apply:

Lead-based Paint/Ceramic Tile Inspection

- Exterior and interior surfaces of the Administration, Library, 100, 200, 300, 400, 500, 600, 700, 800 and 900 were tested via the Niton XRF for the presence of lead.
- The components listed in the previous table were identified as being coated with a lead-based paint or lead-containing ceramic glaze.
- The painted surfaces were observed to be in good condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

It is recommended that all renovation, remodeling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint or lead-containing ceramic glaze be performed by properly trained and qualified personnel.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – XRF SUMMARY RESULTS

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
1	01/02/14	Paint			Shutter calibrate					2.46	0	0.38	0	0	0
2	01/02/14	Paint			Calibrate				Positive	1.4	0.5	1.4	0.5	1	2.8
3	01/02/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	2	2
4	01/02/14	Paint			Calibrate				Positive	1.5	0.6	1.5	0.6	0.7	2.5
5	01/02/14	Paint	Building 300	Room 301	Wall	Brick	A	Intact	Null	0.4	0.1	0.4	0.1	0.5	0.3
6	01/02/14	Paint	Building 300	Room 301	Wall	Brick	A	Intact	Negative	0.4	0.1	0.4	0.1	0.6	0.3
7	01/02/14	Paint	Building 300	Room 301	Wall	Brick	B	Intact	Negative	0.29	0.13	0.29	0.13	0.5	0.6
8	01/02/14	Paint	Building 300	Room 301	Wall	Brick	C	Intact	Positive	1.1	0.3	0.5	0.1	1.1	0.3
9	01/02/14	Paint	Building 300	Room 301	Wall panel	Wood	D	Intact	Negative	0.15	0.2	0.15	0.2	0.02	0.74
10	01/02/14	Paint	Building 300	Room 301	Cabinet	Wood	D	Intact	Negative	0.16	0.17	0.16	0.17	0.5	1.1
11	01/02/14	Paint	Building 300	Room 301	Beam	Wood		Intact	Negative	0.28	0.22	0.28	0.22	0.4	0.8
12	01/02/14	Paint	Building 300	Room 301	Plenum hatch	Wood		Intact	Negative	0	0.02	0	0.02	0.02	0.87

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
13	01/02/14	Paint	Building 300	Room 301	Door	Wood	A	Intact	Negative	0.04	0.11	0.04	0.11	0.02	0.9
14	01/02/14	Paint	Building 300	Room 301	Door frame	Wood	A	Intact	Negative	0.24	0.31	0.24	0.31	0.4	1.1
15	01/02/14	Paint	Building 300	Room 301	Transom	Wood	C	Intact	Null	0.4	0.7	0.4	0.7	0.28	1.86
16	01/02/14	Paint	Building 300	Room 301	Transom	Wood	C	Intact	Negative	0.16	0.47	0.7	0.3	0.16	0.47
17	01/02/14	Paint	Building 300	Room 301	Window frame	Wood	C	Intact	Positive	0.7	0.1	0.7	0.1	0.8	0.2
18	01/02/14	Paint	Building 300	Room 301	Window sash	Metal	C	Intact	Negative	0.21	0.26	0.21	0.26	0.12	1.79
19	01/02/14	Paint	Building 300	Room 301	Window sash	Metal	A	Intact	Negative	0.24	0.29	0.24	0.29	0.02	1.72
20	01/02/14	Paint	Building 300	Room 301	Window crank bar	Metal	C	Intact	Null	0.4	0.2	0.4	0.2	-0.15	0.88
21	01/02/14	Paint	Building 300	Room 301	Window crank bar	Metal	C	Intact	Negative	0.06	0.1	0.06	0.1	-0.09	2.45
22	01/02/14	Paint	Building 300	Room 304	Beam	Wood		Intact	Negative	0.25	0.16	0.25	0.16	0.23	0.76
23	01/02/14	Paint	Building 300	Room 304	Plenum hatch	Wood		Intact	Negative	0	0.02	0	0.02	-0.09	0.72
24	01/02/14	Paint	Building 300	Room 304	Wall	Wood	B	Intact	Negative	0.19	0.21	0.19	0.21	0.09	0.79

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
25	01/02/14	Paint	Building 300	Room 304	Cabinet	Wood	B	Intact	Negative	0.24	0.28	0.24	0.28	0.19	0.85
26	01/02/14	Paint	Building 300	Room 304	Door	Wood	C	Intact	Negative	0.02	0.04	0.02	0.04	0.11	0.8
27	01/02/14	Paint	Building 300	Room 304	Door frame	Wood	C	Intact	Negative	0.5	0.2	0.5	0.2	0.6	0.4
28	01/02/14	Paint	Building 300	Janitor storage	Wall	Wood	A	Intact	Negative	0.25	0.23	0.25	0.23	0.16	0.82
29	01/02/14	Paint	Building 300	Janitor storage	Ceiling	Drywall		Intact	Negative	0.09	0.09	0.09	0.09	-0.02	1
30	01/02/14	Paint	Building 300	Janitor storage	Electrical box	Metal	C	Intact	Negative	0.03	0.06	0.03	0.06	-0.25	0.82
31	01/02/14	Paint	Building 300	Janitor storage	Water pipe	Metal	B	Intact	Negative	0.19	0.3	0.19	0.3	-0.63	2.76
32	01/02/14	Paint	Building 300	Janitor storage	Airtc hatch	Wood		Intact	Negative	0.3	0.26	0.3	0.26	0.4	1
33	01/02/14	Paint	Building 300	Janitor storage	Shelf	Wood	D	Intact	Negative	0.17	0.13	0.17	0.13	0.3	0.9
34	01/02/14	Paint	Building 300	Janitor storage	Door	Wood	C	Intact	Negative	0.07	0.11	0.07	0.11	-0.07	0.87
35	01/02/14	Paint	Building 300	Janitor storage	Door frame	Wood	C	Intact	Positive	1.2	0.3	1.2	0.3	1.4	0.6
36	01/02/14	Paint	Building 300	Janitor storage	Sink	Metal	B	Intact	Positive	38.8	18.4	8.2	3.5	38.8	18.4

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
37	01/02/14	Paint	Building 300	Electrical room	Wall	Brick	A	Intact	Negative	0.24	0.03	0.24	0.03	0.7	0.3
38	01/02/14	Paint	Building 300	Electrical room	Wall	Brick	B	Intact	Negative	0.3	0.04	0.3	0.04	0.6	0.3
39	01/02/14	Paint	Building 300	Electrical room	Wall	Wood	C	Intact	Negative	0.11	0.1	0.11	0.1	0.3	0.86
40	01/02/14	Paint	Building 300	Electrical room	Wall	Brick	D	Intact	Positive	1	0.3	0.4	0.1	1	0.3
41	01/02/14	Paint	Building 300	Electrical room	Ceiling	Drywall		Intact	Negative	0.18	0.06	0.18	0.06	0.4	0.5
42	01/02/14	Paint	Building 300	Electrical room	Conduit	Metal	A	Intact	Negative	0.17	0.17	0.17	0.17	0.3	2.55
43	01/02/14	Paint	Building 300	Electrical room	Door	Wood	C	Intact	Negative	0	0.02	0	0.02	0.12	0.94
44	01/02/14	Paint	Building 300	Electrical room	Door frame	Wood	C	Intact	Negative	0.4	0.2	0.4	0.2	0.29	0.79
45	01/02/14	Paint	Building 300	Heater closet	Wall	Brick	A	Intact	Negative	0.09	0.03	0.09	0.03	0.6	0.5
46	01/02/14	Paint	Building 300	Heater closet	Wall	Brick	B	Intact	Negative	0.4	0.1	0.4	0.1	0.8	0.4
47	01/02/14	Paint	Building 300	Heater closet	Wall	Brick	C	Intact	Negative	0.23	0.04	0.23	0.04	0.7	0.4
48	01/02/14	Paint	Building 300	Heater closet	Wall	Brick	D	Intact	Negative	0.26	0.04	0.26	0.04	0.6	0.5

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
49	01/02/14	Paint	Building 300	Heater closet	Ceiling	Drywall		Intact	Negative	0.08	0.03	0.08	0.03	0.2	0.48
50	01/02/14	Paint	Building 300	Heater closet	Electrical box	Metal	B	Intact	Negative	0.15	0.11	0.15	0.11	0.07	2.4
51	01/02/14	Paint	Building 300	Heater closet	Conduit	Metal	B	Intact	Negative	0.11	0.08	0.11	0.08	0.5	2.5
52	01/02/14	Paint	Building 300	Heater closet	Door	Wood	A	Intact	Negative	0.03	0.05	0.03	0.05	-0.14	0.8
53	01/02/14	Paint	Building 300	Heater closet	Door frame	Metal	A	Poor	Negative	0.5	0.1	0.5	0.1	0.7	0.9
54	01/02/14	Paint	Building 300	Boys' restroom	Wall tile	Ceramic	A	Intact	Negative	0.07	0.13	0.07	0.13	0.4	0.7
55	01/02/14	Paint	Building 300	Boys' restroom	Floor tile	Ceramic		Intact	Negative	0.01	0.03	0.01	0.03	0.12	1.43
56	01/02/14	Paint	Building 300	Boys' restroom	Ceiling	Wood		Intact	Positive	1.1	0.4	1.1	0.3	1.1	0.4
57	01/02/14	Paint	Building 300	Boys' restroom	Toilet	Porcelain		Intact	Negative	0.01	0.03	0.01	0.03	0.4	1.8
58	01/02/14	Paint	Building 300	Boys' restroom	Sink	Porcelain		Intact	Negative	0.07	0.13	0.07	0.13	0.14	1.21
59	01/02/14	Paint	Building 300	Boys' restroom	Urinal	Porcelain		Intact	Negative	0.01	0.02	0.01	0.02	0.7	1.7
60	01/02/14	Paint	Building 300	Boys' restroom	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	0.1	1.86

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
61	01/02/14	Paint	Building 300	Boys' restroom	Door frame	Metal	B	Intact	Negative	0.01	0.04	0.01	0.04	0.16	1.98
62	01/02/14	Paint	Building 300	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.12	0.62
63	01/02/14	Paint	Building 300	Exterior	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	0.4	0.6
64	01/02/14	Paint	Building 300	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.4	0.6
65	01/02/14	Paint	Building 300	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.26	0.66
66	01/02/14	Paint	Building 300	Exterior	Wall	Stucco	B	Intact	Negative	0	0.02	0	0.02	0.15	0.63
67	01/02/14	Paint	Building 300	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	0.14	2.03
68	01/02/14	Paint	Building 300	Exterior	Door frame	Metal	B	Intact	Negative	0.01	0.05	0.01	0.05	-0.46	2.33
69	01/02/14	Paint	Building 300	Exterior	Overhang ceiling	Wood	C	Intact	Positive	2.1	0.8	2.1	0.8	1.9	1.4
70	01/02/14	Paint	Building 300	Exterior	Fascia	Wood	C	Poor	Negative	0.26	0.11	0.26	0.11	0.18	0.41
71	01/02/14	Paint	Building 300	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.37	1.68
72	01/02/14	Paint	Building 300	Exterior	HVAC unit (on roof)	Metal		Intact	Negative	0	0.02	0	0.02	0	1.89

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
73	01/02/14	Paint	Building 300	Exterior	Gutter	Metal	A	Poor	Negative	0.06	0.05	0.06	0.05	-0.39	1.58
74	01/02/14	Paint	Building 300	Exterior	Window frame	Wood	C	Intact	Negative	0.4	0.2	0.4	0.2	0.7	1
75	01/02/14	Paint	Building 300	Exterior	Window sash	Metal	C	Intact	Positive	1.2	0.4	1.2	0.4	0.5	1.9
76	01/02/14	Paint	Building 300	Exterior	Window frame	Wood	C	Intact	Positive	2.1	1.1	2.1	1.1	1.8	1.3
77	01/02/14	Paint	Building 300	Exterior	Downspout	Metal	A	Intact	Negative	0.2	0.31	0.2	0.31	0.5	2.2
78	01/02/14	Paint	Building 300	Exterior	Conduit	Metal	A	Intact	Negative	0.17	0.21	0.17	0.21	0.4	1.2
79	01/02/14	Paint	Building 300	Exterior	Covered walkway ceiling	Wood	C	Intact	Positive	3.7	1.8	3.7	1.8	2.2	1.7
80	01/02/14	Paint	Building 300	Exterior	Floor	Concrete		Intact	Negative	0	0.02	0	0.02	0.08	0.78
81	01/02/14	Paint	Building 300	Exterior	Floor stripe	Concrete	B	Poor	Negative	0.03	0.06	0.03	0.06	0.3	0.81
82	01/02/14	Paint	Building 300	Exterior	Floor stripe	Concrete	C	Fair	Null	0.01	0.02	0.01	0.02	0.5	0.7
83	01/02/14	Paint	Building 300	Exterior	Floor stripe	Concrete	C	Intact	Negative	0.01	0.02	0.01	0.02	0.4	0.7
84	01/02/14	Paint			Calibrate				Positive	1.5	0.6	1.5	0.6	1.2	3.2

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
85	01/02/14	Paint			Calibrate				Positive	1.5	0.6	1.5	0.6	0.7	3.5
86	01/02/14	Paint			Calibrate				Positive	1.6	0.4	1.6	0.4	1.5	2
87	01/02/14	Paint	Library Building	Library	Wall	Brick	A	Intact	Negative	0.02	0.04	0.02	0.04	0.05	0.72
88	01/02/14	Paint	Library Building	Library	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.22	0.7
89	01/02/14	Paint	Library Building	Library	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	-0.05	0.77
90	01/02/14	Paint	Library Building	Library	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.4	0.6
91	01/02/14	Paint	Library Building	Library	Beam	Wood		Intact	Negative	0.07	0.06	0.07	0.06	0.07	0.71
92	01/02/14	Paint	Library Building	Library	Wall	Drywall	C	Intact	Negative	0.02	0.02	0.02	0.02	0.09	0.68
93	01/02/14	Paint	Library Building	Library	Electrical box	Metal	C	Intact	Negative	0.19	0.18	0.19	0.18	0.4	2.3
94	01/02/14	Paint	Library Building	Library	Baseboard	Wood	A	Intact	Negative	0.18	0.24	0.18	0.24	0.8	1.1
95	01/02/14	Paint	Library Building	Library	Cabinet	Wood	C	Intact	Negative	0.09	0.11	0.09	0.11	0.08	0.96
96	01/02/14	Paint	Library Building	Library	Door	Metal	C	Intact	Negative	0.23	0.21	0.23	0.21	0.19	0.9

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
97	01/02/14	Paint	Library Building	Library	Door frame	Wood	C	Intact	Negative	0.3	0.27	0.3	0.27	0.3	1.07
98	01/02/14	Paint	Library Building	Library	Window frame	Wood	C	Intact	Negative	0	0.02	0	0.02	0.28	0.99
99	01/02/14	Paint	Library Building	Library	Window frame	Metal	C	Intact	Negative	0.07	0.11	0.07	0.11	-0.81	2.04
100	01/02/14	Paint	Library Building	Library	Window sash	Metal	C	Intact	Negative	0.06	0.08	0.06	0.08	-0.57	2.44
101	01/02/14	Paint	Library Building	Library	Transom	Wood	C	Intact	Negative	0.02	0.09	0.02	0.09	0.3	0.89
102	01/02/14	Paint	Library Building	Library	Wall	Wood	C	Intact	Negative	0.29	0.3	0.29	0.3	0.25	1.05
103	01/02/14	Paint	Library Building	Library	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.16	1.99
104	01/02/14	Paint	Library Building	Library	Window frame	Wood	A	Intact	Negative	0.14	0.14	0.14	0.14	0.5	1.1
105	01/02/14	Paint	Library Building	Library	Window sash	Metal	A	Intact	Negative	0.08	0.1	0.08	0.1	0.28	2.09
106	01/02/14	Paint	Library Building	Library	Plenum hatch	Wood		Intact	Negative	0	0.02	0	0.02	0.09	0.84
107	01/02/14	Paint	Library Building	Library	Air vent	Metal		Intact	Negative	0	0.02	0	0.02	-0.22	1.63
108	01/02/14	Paint	Library Building	Library	Book shelf	Wood	D	Intact	Negative	0	0.02	0	0.02	0.13	0.97

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
109	01/02/14	Paint	Library Building	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.13	0.74
110	01/02/14	Paint	Library Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	-0.07	0.68
111	01/02/14	Paint	Library Building	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.22	0.7
112	01/02/14	Paint	Library Building	Exterior	Wall	Brick	D	Intact	Negative	0.02	0.05	0.02	0.05	0.5	0.7
113	01/02/14	Paint	Library Building	Exterior	Covered walkway ceiling	Wood	C	Intact	Negative	0.23	0.24	0.23	0.24	0.15	0.87
114	01/02/14	Paint	Library Building	Exterior	Beam	Wood	C	Intact	Negative	0.19	0.2	0.19	0.2	0.23	1.18
115	01/02/14	Paint	Library Building	Exterior	Conduit	Metal	C	Intact	Negative	0.2	0.11	0.2	0.11	0.08	0.65
116	01/02/14	Paint	Library Building	Exterior	Fascia	Wood	C	Intact	Negative	0.11	0.16	0.11	0.16	0.4	0.9
117	01/02/14	Paint	Library Building	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.09	1.76
118	01/02/14	Paint	Library Building	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.03	1.74
119	01/02/14	Paint	Library Building	Exterior	Overhang ceiling	Stucco	C	Intact	Negative	0	0.02	0	0.02	0.13	0.71
120	01/02/14	Paint	Library Building	Exterior	Window frame	Wood	C	Intact	Negative	0.01	0.05	0.01	0.05	0.29	0.96

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
121	01/02/14	Paint	Library Building	Exterior	Window frame	Metal	C	Intact	Negative	0.07	0.15	0.07	0.15	-0.23	2.49
122	01/02/14	Paint	Library Building	Exterior	Window sash	Metal	C	Intact	Negative	0.06	0.08	0.06	0.08	-0.5	1.03
123	01/02/14	Paint	Library Building	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.18	0.51
124	01/02/14	Paint	Library Building	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-0.2	1.54
125	01/02/14	Paint	Library Building	Exterior	Gutter	Metal	A	Fair	Negative	0	0.02	0	0.02	-0.23	1.52
126	01/02/14	Paint	Library Building	Exterior	Window frame	Wood	C	Intact	Negative	0.04	0.08	0.04	0.08	0.16	0.95
127	01/02/14	Paint	Library Building	Exterior	Downspout	Metal	A	Intact	Negative	0.25	0.33	0.25	0.33	0.7	2.4
128	01/02/14	Paint	Library Building	Exterior	Window frame	Metal	A	Intact	Negative	0.02	0.04	0.02	0.04	0.17	2.73
129	01/02/14	Paint	Library Building	Exterior	Window sash	Metal	A	Intact	Negative	0.01	0.02	0.01	0.02	-0.29	2.39
130	01/02/14	Paint			Calibrate				Positive	1.4	0.7	1.4	0.7	2.2	3.9
131	01/02/14	Paint			Calibrate				Positive	1.7	0.9	1.7	0.9	1.4	4
132	01/02/14	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	1.6	1.9

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
133	01/03/14	Paint			Shutter calibrate					2.37	0	0.39	0	0	0
134	01/03/14	Paint			Calibrate				Positive	1.6	0.3	1.6	0.3	1.3	1.2
135	01/03/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	1.6	1.9
136	01/03/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	2	2
137	01/03/14	Paint	Building 400	Room 401	Wall	Brick	A	Intact	Null	0.4	1.1	0.4	1.1	0.7	3.1
138	01/03/14	Paint	Building 400	Room 401	Wall	Brick	A	Intact	Positive	0.7	0.2	0.4	0.1	0.7	0.2
139	01/03/14	Paint	Building 400	Room 401	Wall	Wood	D	Intact	Negative	0.04	0.07	0.04	0.07	0.3	1.11
140	01/03/14	Paint	Building 400	Room 401	Cabinet	Wood	D	Intact	Negative	0.21	0.27	0.21	0.27	0.7	1
141	01/03/14	Paint	Building 400	Room 401	Door	Wood	A	Intact	Negative	0.01	0.05	0.01	0.05	-0.01	1.03
142	01/03/14	Paint	Building 400	Room 401	Door frame	Wood	A	Intact	Negative	0.3	0.31	0.3	0.31	0.5	1
143	01/03/14	Paint	Building 400	Room 401	Door	Wood	C	Intact	Negative	0.02	0.03	0.02	0.03	0	0.46
144	01/03/14	Paint	Building 400	Room 401	Door frame	Wood	C	Intact	Negative	0.3	0.3	0.3	0.3	0.2	0.85

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
145	01/03/14	Paint	Building 400	Room 401	Beam	Wood		Intact	Negative	0.29	0.25	0.29	0.25	0.7	1.1
146	01/03/14	Paint	Building 400	Room 401	Window frame	Wood	A	Intact	Negative	0.4	0.1	0.4	0.1	0.5	0.5
147	01/03/14	Paint	Building 400	Room 401	Window sash	Metal	A	Intact	Positive	0.7	0.1	0.7	0.1	0.7	0.3
148	01/03/14	Paint	Building 400	Room 401	Window frame	Wood	C	Intact	Positive	1.4	0.6	0.7	0.3	1.4	0.6
149	01/03/14	Paint	Building 400	Room 401	Window crank bar	Metal	C	Intact	Negative	0.26	0.25	0.26	0.25	-0.11	2.45
150	01/03/14	Paint	Building 400	Room 401	Window frame	Metal	C	Intact	Negative	0.28	0.27	0.28	0.27	-0.19	1.94
151	01/03/14	Paint	Building 400	Room 404	Wall	Wood	B	Intact	Negative	0.5	0.3	0.5	0.3	-0.01	0.8
152	01/03/14	Paint	Building 400	Room 404	Cabinet	Wood	B	Intact	Negative	0.21	0.44	0.26	0.21	0.21	0.44
153	01/03/14	Paint	Building 400	Room 404	Cabinet	Wood	B	Intact	Positive	1.7	0.9	1.7	0.9	3.7	2.2
154	01/03/14	Paint	Building 400	Room 404	Wall	Wood	C	Intact	Negative	0.5	0.2	0.5	0.2	0.3	0.43
155	01/03/14	Paint	Building 400	Room 404	Beam	Wood		Intact	Positive	10.1	6.1	9.1	5.2	10.1	6.1
156	01/03/14	Paint	Building 400	Room 404	Wall	Wood	C	Intact	Null	0.6	0.2	0.6	0.2	0.5	0.3

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
157	01/03/14	Paint	Building 400	Room 404	Wall	Wood	C	Intact	Negative	0.28	0.24	0.28	0.24	0.6	1.4
158	01/03/14	Paint	Building 400	Room 404	Door	Wood	A	Intact	Negative	0.02	0.03	0.02	0.03	-0.02	0.37
159	01/03/14	Paint	Building 400	Room 404	Door frame	Wood	A	Intact	Negative	0.5	0.2	0.5	0.2	0.7	0.5
160	01/03/14	Paint	Building 400	Room 404	Plenum hatch	Wood		Intact	Negative	0	0.02	0	0.02	0.08	0.73
161	01/03/14	Paint	Building 400	Janitor storage	Wall	Brick	A	Intact	Negative	0.3	0.37	0.13	0.04	0.3	0.37
162	01/03/14	Paint	Building 400	Janitor storage	Wall	Brick	B	Intact	Negative	0.22	0.39	0.14	0.05	0.22	0.39
163	01/03/14	Paint	Building 400	Janitor storage	Wall	Brick	C	Intact	Negative	0.08	0.04	0.08	0.04	0.3	0.72
164	01/03/14	Paint	Building 400	Janitor storage	Wall	Brick	D	Intact	Negative	0.25	0.45	0.12	0.05	0.25	0.45
165	01/03/14	Paint	Building 400	Janitor storage	Ceiling	Drywall		Intact	Negative	0.05	0.03	0.05	0.03	0.11	0.54
166	01/03/14	Paint	Building 400	Janitor storage	Attic hatch	Wood		Intact	Negative	0.29	0.28	0.29	0.28	0.5	1.2
167	01/03/14	Paint	Building 400	Janitor storage	Conduit	Metal	B	Intact	Negative	0.01	0.02	0.01	0.02	-0.23	1.66
168	01/03/14	Paint	Building 400	Janitor storage	Water pipe	Metal	C	Intact	Negative	0.22	0.14	0.22	0.14	-0.13	0.93

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
169	01/03/14	Paint	Building 400	Janitor storage	Shelf	Wood	A	Intact	Negative	0.27	0.22	0.27	0.22	0.24	0.89
170	01/03/14	Paint	Building 400	Janitor storage	Door	Wood	C	Intact	Negative	0.02	0.05	0.02	0.05	0.16	0.8
171	01/03/14	Paint	Building 400	Janitor storage	Door frame	Wood	C	Intact	Positive	1.4	0.6	1.4	0.6	1.4	1.2
172	01/03/14	Paint	Building 400	Heater room	Wall	Brick	A	Intact	Null	0.4	0.1	0.4	0.1	0.6	0.7
173	01/03/14	Paint	Building 400	Heater room	Wall	Brick	A	Intact	Negative	0.23	0.06	0.23	0.06	0.3	0.66
174	01/03/14	Paint	Building 400	Heater room	Wall	Brick	B	Intact	Null	0.6	0.3	0.6	0.3	0.4	2.2
175	01/03/14	Paint	Building 400	Heater room	Wall	Brick	B	Intact	Null	0.5	0.1	0.5	0.1	0.9	0.4
176	01/03/14	Paint	Building 400	Heater room	Wall	Brick	B	Intact	Negative	0.3	0.07	0.3	0.07	0.5	0.6
177	01/03/14	Paint	Building 400	Heater room	Wall	Brick	C	Intact	Negative	0.3	0.08	0.3	0.08	0.5	0.7
178	01/03/14	Paint	Building 400	Heater room	Wall	Brick	D	Intact	Negative	0.27	0.05	0.27	0.05	0.8	0.5
179	01/03/14	Paint	Building 400	Heater room	Ceiling	Drywall		Intact	Negative	0.12	0.04	0.12	0.04	0.4	0.5
180	01/03/14	Paint	Building 400	Heater room	Electrical box	Metal	B	Poor	Negative	0.22	0.14	0.22	0.14	0.16	2.02

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
181	01/03/14	Paint	Building 400	Heater room	Conduit	Metal	B	Poor	Negative	0.27	0.17	0.27	0.17	0.3	2.55
182	01/03/14	Paint	Building 400	Heater room	Door	Wood	A	Intact	Negative	0.02	0.04	0.02	0.04	0.14	0.93
183	01/03/14	Paint	Building 400	Heater room	Door frame	Metal	A	Poor	Positive	0.9	0.1	0.9	0.1	0.6	0.9
184	01/03/14	Paint	Building 400	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.17	0.64
185	01/03/14	Paint	Building 400	Exterior	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	0.29	0.66
186	01/03/14	Paint	Building 400	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.3	0.64
187	01/03/14	Paint	Building 400	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	0.22	0.63
188	01/03/14	Paint	Building 400	Exterior	Covered walkway ceiling	Wood	C	Fair	Positive	3.6	2.2	4.2	2.6	3.6	2.2
189	01/03/14	Paint	Building 400	Exterior	Fascia	Wood	C	Fair	Positive	2.9	1.7	2.4	1.4	2.9	1.7
190	01/03/14	Paint	Building 400	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.25	1.91
191	01/03/14	Paint	Building 400	Exterior	Overhang ceiling	Wood	C	Intact	Positive	1.8	0.8	1.8	0.8	1.6	1.3
192	01/03/14	Paint	Building 400	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-0.2	1.95

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
193	01/03/14	Paint	Building 400	Exterior	Gutter	Metal	A	Fair	Negative	0.21	0.17	0.21	0.17	0.19	1.76
194	01/03/14	Paint	Building 400	Exterior	Window sash	Metal	C	Intact	Positive	2.5	1.1	2.5	1.1	2.1	3.4
195	01/03/14	Paint	Building 400	Exterior	Window frame	Wood	C	Intact	Positive	1.9	1	1.9	1	2	1.5
196	01/03/14	Paint	Building 400	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	0.16	2.02
197	01/03/14	Paint	Building 400	Exterior	Electrical box	Metal	C	Intact	Negative	0	0.02	0	0.02	0.07	0.5
198	01/03/14	Paint	Building 400	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	0.2	2.88
199	01/03/14	Paint	Building 400	Exterior	Downspout	Metal	A	Intact	Negative	0.23	0.35	0.23	0.35	0.01	2.46
200	01/03/14	Paint	Building 400	Exterior	Downspout	Metal	A	Intact	Positive	0.9	0.2	0.9	0.2	0.9	0.7
201	01/03/14	Paint	Building 400	Exterior	Downspout	Metal	A	Intact	Null	1.7	2.3	1.7	2.3	2.4	8.5
202	01/03/14	Paint	Building 400	Exterior	Downspout	Metal	A	Intact	Positive	2.6	1.1	2.6	1.1	2.9	2.2
203	01/03/14	Paint	Building 400	Exterior	Floor stripe	Concrete	C	Intact	Negative	0.01	0.02	0.01	0.02	0.3	0.71
204	01/03/14	Paint	Building 400	Exterior	Door	Wood	C	Poor	Positive	2.3	0.8	1.8	0.7	2.3	0.8

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
205	01/03/14	Paint	Building 400	Exterior	Door frame	Wood	C	Intact	Positive	1.2	0.4	1.2	0.4	1.3	0.5
206	01/03/14	Paint	Building 400	Exterior	Door frame	Metal	A	Intact	Positive	1.4	0.3	1.4	0.3	0.8	1.1
207	01/03/14	Paint	Building 400	Exterior	Wall vent	Metal	A	Intact	Negative	0.16	0.32	0.16	0.32	-0.02	1.86
208	01/03/14	Paint	Building 300	Exterior	Door	Wood	C	Poor	Positive	3	1.5	3	1.5	2.5	1.8
209	01/03/14	Paint	Building 300	Exterior	Door frame	Wood	C	Intact	Positive	2.3	1.3	1.7	1.1	2.3	1.3
210	01/03/14	Paint	Building 300	Exterior	Door frame	Metal	A	Intact	Negative	0.4	0.2	0.4	0.2	-0.03	1.03
211	01/03/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	0.8	1.7
212	01/03/14	Paint			Calibrate				Positive	1.6	0.7	1.6	0.7	2.1	3.2
213	01/03/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	1.6	1.7
214	01/03/14	Paint	Building 500	Room 501	Wall	Brick	A	Intact	Null	0.5	0.5	0.5	0.5	0.5	1.2
215	01/03/14	Paint	Building 500	Room 501	Wall	Brick	A	Intact	Negative	0.16	0.07	0.16	0.07	0.5	0.6
216	01/03/14	Paint	Building 500	Room 501	Wall	Brick	B	Intact	Negative	0.11	0.04	0.11	0.04	0.6	0.6

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
217	01/03/14	Paint	Building 500	Room 501	Wall	Brick	C	Intact	Negative	0.22	0.12	0.22	0.12	0.3	0.72
218	01/03/14	Paint	Building 500	Room 501	Wall	Wood	D	Intact	Negative	0.26	0.25	0.26	0.25	-0.08	0.74
219	01/03/14	Paint	Building 500	Room 501	Cabinet	Wood	D	Intact	Negative	0.5	0.2	0.5	0.2	0.26	0.36
220	01/03/14	Paint	Building 500	Room 501	Beam	Wood		Intact	Negative	0.23	0.22	0.23	0.22	0.6	1.1
221	01/03/14	Paint	Building 500	Room 501	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.64	2.16
222	01/03/14	Paint	Building 500	Room 501	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	0.22	1.79
223	01/03/14	Paint	Building 500	Room 501	Baseboard	Wood	B	Intact	Negative	0.4	0.1	0.4	0.1	0.8	0.4
224	01/03/14	Paint	Building 500	Room 501	Window frame	Wood	C	Intact	Null	0.4	0.2	0.4	0.2	0.4	0.4
225	01/03/14	Paint	Building 500	Room 501	Window frame	Wood	C	Intact	Negative	0.3	0.16	0.3	0.16	0.4	0.5
226	01/03/14	Paint	Building 500	Room 501	Window frame	Wood	A	Intact	Negative	0.4	0.2	0.4	0.2	0.3	0.47
227	01/03/14	Paint	Building 500	Room 501	Window sash	Metal	A	Intact	Null	0.05	0.16	0.05	0.16	-0.22	4.72
228	01/03/14	Paint	Building 500	Room 501	Window sash	Metal	A	Intact	Negative	0.11	0.16	0.11	0.16	-0.13	1.87

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
229	01/03/14	Paint	Building 500	Room 501	Window crank bar	Metal	C	Intact	Negative	0.1	0.17	0.1	0.17	-0.33	2.23
230	01/03/14	Paint	Building 500	Room 501	Door	Wood	C	Intact	Negative	0.01	0.03	0.01	0.03	-0.09	0.76
231	01/03/14	Paint	Building 500	Room 501	Door frame	Wood	C	Intact	Negative	0.5	0.2	0.5	0.1	0.5	0.2
232	01/03/14	Paint	Building 500	Room 501	Plenum hatch	Wood		Fair	Negative	0	0.02	0	0.02	-0.18	0.81
233	01/03/14	Paint	Building 500	Room 502	Wall	Brick	A	Intact	Negative	0.25	0.11	0.25	0.11	0.6	0.5
234	01/03/14	Paint	Building 500	Room 502	Wall	Wood	B	Intact	Negative	-0.22	0.84	0.3	0.44	-0.22	0.84
235	01/03/14	Paint	Building 500	Room 502	Wall	Brick	C	Intact	Negative	0.16	0.08	0.16	0.08	0.3	0.64
236	01/03/14	Paint	Building 500	Room 502	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.3	0.7
237	01/03/14	Paint	Building 500	Room 502	Window frame	Wood	C	Intact	Negative	0.4	0.2	0.4	0.2	0.8	1
238	01/03/14	Paint	Building 500	Room 502	Window frame	Wood	A	Intact	Negative	0.18	0.16	0.18	0.16	0.3	1.07
239	01/03/14	Paint	Building 500	Room 502	Window sash	Metal	A	Intact	Negative	0.08	0.1	0.08	0.1	0.15	2.42
240	01/03/14	Paint	Building 500	Room 503	Wall	Brick	A	Intact	Negative	0.05	0.03	0.05	0.03	0.3	0.56

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
241	01/03/14	Paint	Building 500	Room 503	Wall	Brick	B	Intact	Negative	0.16	0.09	0.16	0.09	0.3	0.69
242	01/03/14	Paint	Building 500	Room 503	Wall	Brick	C	Intact	Negative	0.13	0.06	0.13	0.06	0.11	0.67
243	01/03/14	Paint	Building 500	Room 503	Wall	Wood	D	Intact	Negative	0.15	0.18	0.15	0.18	0.4	1.1
244	01/03/14	Paint	Building 500	Room 503	Window frame	Wood	C	Intact	Negative	0.3	0.3	0.3	0.3	0.4	1
245	01/03/14	Paint	Building 500	Room 503	Window frame	Wood	A	Intact	Negative	0.2	0.21	0.2	0.21	0.4	1
246	01/03/14	Paint	Building 500	Room 503	Window sash	Metal	A	Intact	Negative	0.13	0.19	0.13	0.19	-0.29	2.08
247	01/03/14	Paint	Building 500	Room 504	Wall	Brick	A	Intact	Negative	0.16	0.05	0.16	0.05	0.5	0.5
248	01/03/14	Paint	Building 500	Room 504	Wall	Wood	B	Intact	Null	0.4	0.5	0.4	0.5	-0.06	0.83
249	01/03/14	Paint	Building 500	Room 504	Wall	Wood	B	Intact	Negative	0.26	0.3	0.26	0.3	0.17	0.8
250	01/03/14	Paint	Building 500	Room 504	Wall	Brick	C	Intact	Negative	0.11	0.06	0.11	0.06	0.5	0.6
251	01/03/14	Paint	Building 500	Room 504	Wall	Brick	D	Intact	Negative	0.14	0.07	0.14	0.07	0.6	0.6
252	01/03/14	Paint	Building 500	Room 504	Cabinet	Wood	B	Intact	Negative	0.27	0.32	0.27	0.32	0.25	1.1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
253	01/03/14	Paint	Building 500	Room 504	Beam	Wood		Intact	Negative	0.28	0.21	0.28	0.21	0.7	0.8
254	01/03/14	Paint	Building 500	Room 504	Plenum hatch	Wood		Intact	Negative	0	0.02	0	0.02	0.21	0.91
255	01/03/14	Paint	Building 500	Room 504	Window frame	Wood	C	Intact	Negative	0.3	0.3	0.3	0.3	0.6	1
256	01/03/14	Paint	Building 500	Room 504	Window frame	Wood	A	Intact	Negative	0.25	0.16	0.25	0.16	0.4	0.4
257	01/03/14	Paint	Building 500	Room 504	Window sash	Metal	A	Intact	Negative	0.13	0.18	0.13	0.18	-0.17	2.2
258	01/03/14	Paint	Building 500	Room 504	Window crank bar	Metal	C	Intact	Negative	0.06	0.09	0.06	0.09	0.22	2.4
259	01/03/14	Paint	Building 500	Room 504	Door	Wood	C	Intact	Negative	0.01	0.03	0.01	0.03	0.09	0.89
260	01/03/14	Paint	Building 500	Room 504	Door frame	Wood	C	Intact	Negative	0.3	0.16	0.3	0.16	0.4	0.4
261	01/03/14	Paint	Building 500	Janitor storage	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.18	0.65
262	01/03/14	Paint	Building 500	Janitor storage	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	0.15	0.7
263	01/03/14	Paint	Building 500	Janitor storage	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.14	0.64
264	01/03/14	Paint	Building 500	Janitor storage	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.29	0.54

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
265	01/03/14	Paint	Building 500	Janitor storage	Ceiling	Drywall		Intact	Negative	0.13	0.07	0.13	0.07	0.18	0.57
266	01/03/14	Paint	Building 500	Janitor storage	Attic hatch	Wood		Intact	Negative	0.3	0.18	0.3	0.18	0.3	0.73
267	01/03/14	Paint	Building 500	Janitor storage	Shelf	Wood	D	Intact	Negative	0.13	0.12	0.13	0.12	0.4	1
268	01/03/14	Paint	Building 500	Janitor storage	Water pipe	Metal	C	Intact	Negative	0.12	0.25	0.12	0.25	-0.12	2.37
269	01/03/14	Paint	Building 500	Janitor storage	Door	Wood	C	Intact	Negative	0	0.02	0	0.02	0.07	0.99
270	01/03/14	Paint	Building 500	Janitor storage	Door frame	Wood	C	Intact	Negative	0.26	0.23	0.26	0.23	0.4	0.9
271	01/03/14	Paint	Building 500	Janitor storage	Sink	Metal	B	Intact	Negative	-0.52	1	0.04	0.06	-0.52	1
272	01/03/14	Paint	Building 500	Heater room	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.5	0.6
273	01/03/14	Paint	Building 500	Heater room	Wall	Brick	B	Intact	Negative	0.03	0.04	0.03	0.04	0.4	0.7
274	01/03/14	Paint	Building 500	Heater room	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.29	0.66
275	01/03/14	Paint	Building 500	Heater room	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.5	0.6
276	01/03/14	Paint	Building 500	Heater room	Ceiling	Drywall		Intact	Negative	0.1	0.07	0.1	0.07	0.17	0.86

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
277	01/03/14	Paint	Building 500	Heater room	Conduit	Metal	B	Intact	Null	0.28	0.22	0.28	0.22	0.07	0.68
278	01/03/14	Paint	Building 500	Heater room	Conduit	Metal	B	Intact	Negative	-0.2	0.76	0.3	0.26	-0.2	0.76
279	01/03/14	Paint	Building 500	Heater room	Door	Wood	A	Intact	Negative	0.03	0.03	0.03	0.03	0.26	0.43
280	01/03/14	Paint	Building 500	Heater room	Door frame	Metal	A	Intact	Negative	0.06	0.05	0.06	0.05	-0.34	2.02
281	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	A	Intact	Negative	0.03	0.04	0.03	0.04	0.4	0.7
282	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	B	Intact	Null	0.1	0.25	0.1	0.25	0.21	1.26
283	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	B	Intact	Negative	0.03	0.04	0.03	0.04	0.6	0.6
284	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	C	Intact	Null	0.04	0.04	0.04	0.04	0.6	0.6
285	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	C	Intact	Negative	0.05	0.05	0.05	0.05	0.4	0.6
286	01/03/14	Paint	Building 500	Boys' restroom	Wall	Brick	D	Intact	Negative	0.02	0.02	0.02	0.02	0.28	0.73
287	01/03/14	Paint	Building 500	Boys' restroom	Wall tile	Ceramic	A	Intact	Negative	0.02	0.03	0.02	0.03	0.11	0.68
288	01/03/14	Paint	Building 500	Boys' restroom	Floor tile	Ceramic		Intact	Negative	0	0.02	0	0.02	0.7	1.6

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
289	01/03/14	Paint	Building 500	Boys' restroom	Ceiling	Wood		Intact	Null	0.4	0.6	-0.06
290	01/03/14	Paint	Building 500	Boys' restroom	Ceiling	Drywall		Intact	Null	0.22	0.62	-0.01
291	01/03/14	Paint	Building 500	Boys' restroom	Ceiling	Wood		Intact	Negative	0.27	0.19	0.03
292	01/03/14	Paint	Building 500	Boys' restroom	Sink	Porcelain		Intact	Negative	0.02	0.04	0.7
293	01/03/14	Paint	Building 500	Boys' restroom	Toilet	Porcelain		Intact	Negative	0.11	0.32	0.7
294	01/03/14	Paint	Building 500	Boys' restroom	Urinal	Porcelain		Intact	Null	0.01	0.06	-0.84
295	01/03/14	Paint	Building 500	Boys' restroom	Urinal	Porcelain		Intact	Negative	0.01	0.02	0.4
296	01/03/14	Paint	Building 500	Boys' restroom	Window frame	Wood	A	Intact	Negative	0.26	0.3	0.29
297	01/03/14	Paint	Building 500	Boys' restroom	Window sash	Metal	A	Intact	Negative	-0.81	0.06	-0.81
298	01/03/14	Paint	Building 500	Boys' restroom	Door	Metal	B	Intact	Negative	0	0.02	-0.33
299	01/03/14	Paint	Building 500	Boys' restroom	Door frame	Metal	B	Intact	Negative	0	0.02	-0.02
300	01/03/14	Paint	Building 500	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0.4

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
301	01/03/14	Paint	Building 500	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.5	0.6
302	01/03/14	Paint	Building 500	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.3	0.69
303	01/03/14	Paint	Building 500	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.1	0.64
304	01/03/14	Paint	Building 500	Exterior	Door	Wood	C	Fair	Negative	0.21	0.47	0.5	0.2	0.21	0.47
305	01/03/14	Paint	Building 500	Exterior	Door frame	Wood	C	Intact	Negative	0.4	0.2	0.4	0.2	0.5	0.4
306	01/03/14	Paint	Building 500	Exterior	Window frame	Wood	C	Intact	Negative	0.18	0.26	0.18	0.26	0.8	1.2
307	01/03/14	Paint	Building 500	Exterior	Covered walkway ceiling	Wood	C	Intact	Negative	0.1	0.24	0.1	0.24	0.3	1.18
308	01/03/14	Paint	Building 500	Exterior	Conduit	Metal	C	Intact	Negative	0.3	0.39	0.3	0.39	0.26	1.9
309	01/03/14	Paint	Building 500	Exterior	Conduit	Metal	C	Intact	Null	0	0.02	0	0.02	0.3	4.33
310	01/03/14	Paint	Building 500	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.19	1.91
311	01/03/14	Paint	Building 500	Exterior	Electrical box	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.17	1.1
312	01/03/14	Paint	Building 500	Exterior	Covered walk way ceiling	Wood	C	Intact	Negative	0.19	0.19	0.19	0.19	0.7	1.1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
313	01/03/14	Paint	Building 500	Exterior	Fascia	Wood	C	Poor	Positive	2.4	1.3	2.4	1.3	2.3	1.6
314	01/03/14	Paint	Building 500	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	0.12	1.85
315	01/03/14	Paint	Building 500	Exterior	Overhang	Wood	C	Intact	Positive	2.4	1.3	2.4	1.3	1.9	1.6
316	01/03/14	Paint	Building 500	Exterior	Window frame	Wood	C	Intact	Negative	0.11	0.15	0.11	0.15	0.3	0.82
317	01/03/14	Paint	Building 500	Exterior	Window sash	Metal	C	Intact	Negative	0.07	0.11	0.07	0.11	0.1	1.91
318	01/03/14	Paint	Building 500	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-0.27	1.84
319	01/03/14	Paint	Building 500	Exterior	Gutter	Metal	A	Intact	Negative	0.06	0.06	0.06	0.06	0.1	1.48
320	01/03/14	Paint	Building 500	Exterior	Downspout	Metal	A	Intact	Null	0.6	0.2	0.6	0.2	1.2	0.8
321	01/03/14	Paint	Building 500	Exterior	Downspout	Metal	A	Intact	Positive	2.8	1.4	2.8	1.4	2.2	1.9
322	01/03/14	Paint	Building 500	Exterior	Downspout	Metal	A	Intact	Negative	0.5	0.2	0.5	0.2	0.3	0.66
323	01/03/14	Paint	Building 500	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.05	1.66
324	01/03/14	Paint	Building 500	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.23	1.68

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
325	01/03/14	Paint	Building 500	Exterior	Door	Metal	A	Intact	Negative	0.29	0.11	0.29	0.11	0.5	0.5
326	01/03/14	Paint	Building 500	Exterior	Door frame	Metal	A	Intact	Negative	0.09	0.11	0.09	0.11	-0.29	1.92
327	01/03/14	Paint	Building 500	Exterior	Wall vent	Metal	A	Intact	Positive	1.7	0.8	1.7	0.8	1.8	1.7
328	01/03/14	Paint	Building 500	Exterior	Wall	Stucco	B	Intact	Negative	0	0.02	0	0.02	0.11	0.66
329	01/03/14	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	1.8	1.9
330	01/03/14	Paint			Calibrate				Positive	1.4	0.3	1.4	0.3	1.2	1.5
331	01/03/14	Paint			Calibrate				Positive	1.8	0.8	1.8	0.8	1	3.4

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Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbL	PbK Error	PbK
1	01/06/14	Paint								2.49	0	0.36	0	0
2	01/06/14	Paint	Building 600	Room 601					Positive	1.9	0.8	1.9	0.8	1.2
3	01/06/14	Paint	Building 600	Room 601					Positive	1.5	0.4	1.5	0.4	1.5
4	01/06/14	Paint	Building 600	Room 601					Positive	1.7	0.8	1.7	0.8	1.2
5	01/06/14	Paint	Building 600	Room 601	Wall	Brick	A	Intact	Negative	0.17	0.09	0.17	0.09	0.3
6	01/06/14	Paint	Building 600	Room 601	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.09
7	01/06/14	Paint	Building 600	Room 601	Wall	Brick	C	Intact	Negative	0.12	0.08	0.12	0.08	0.4
8	01/06/14	Paint	Building 600	Room 601	Wall	Wood	D	Intact	Negative	0.25	0.26	0.25	0.26	0.28
9	01/06/14	Paint	Building 600	Room 601	Beam	Wood		Intact	Negative	0.21	0.32	0.21	0.32	0.4
10	01/06/14	Paint	Building 600	Room 601	Plenum access	Wood		Intact	Negative	0	0.02	0	0.02	-0.01
11	01/06/14	Paint	Building 600	Room 601	Window frame	Wood	A	Intact	Positive	0.7	0.1	0.7	0.1	0.7
12	01/06/14	Paint	Building 600	Room 601	Window sash	Metal	A	Intact	Negative	0.08	0.09	0.08	0.09	-0.36

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
13	01/06/14	Paint	Building 600	Room 601	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.3	2.25
14	01/06/14	Paint	Building 600	Room 601	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.34	2.35
15	01/06/14	Paint	Building 600	Room 601	Cabinet	Wood	D	Intact	Negative	0.18	0.14	0.18	0.14	0.14	0.38
16	01/06/14	Paint	Building 600	Room 601	Door	Wood	C	Intact	Negative	0.1	0.15	0.1	0.15	-0.02	0.8
17	01/06/14	Paint	Building 600	Room 601	Door frame	Wood	C	Intact	Negative	0.23	0.22	0.23	0.22	0.5	1.2
18	01/06/14	Paint	Building 600	Room 601	Window crank bar	Metal	C	Intact	Negative	0.08	0.08	0.08	0.08	0.21	2.18
19	01/06/14	Paint	Building 600	Room 604	Wall	Brick	A	Intact	Negative	0.17	0.1	0.17	0.1	0.23	0.73
20	01/06/14	Paint	Building 600	Room 604	Wall	Wood	B	Intact	Negative	0.4	0.2	0.4	0.2	0.13	0.45
21	01/06/14	Paint	Building 600	Room 604	Wall	Brick	C	Intact	Null	0.18	0.1	0.18	0.1	0.29	0.64
22	01/06/14	Paint	Building 600	Room 604	Wall	Brick	C	Intact	Negative	0.24	0.12	0.24	0.12	0.6	0.5
23	01/06/14	Paint	Building 600	Room 604	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.5	0.6
24	01/06/14	Paint	Building 600	Room 604	Beam	Wood		Intact	Negative	0.3	0.29	0.3	0.29	0.15	0.67

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
25	01/06/14	Paint	Building 600	Room 604	Plenum access	Wood		Intact	Negative	0	0.02	0	0.02	0.4	1
26	01/06/14	Paint	Building 600	Room 604	Cabinet	Wood	B	Intact	Negative	0.19	0.39	0.5	0.2	0.19	0.39
27	01/06/14	Paint	Building 600	Room 604	Conduit	Wood	A	Intact	Negative	0	0.02	0	0.02	-0.09	1.47
28	01/06/14	Paint	Building 600	Room 604	Electrical box	Metal	A	Intact	Negative	0	0.03	0	0.03	0.01	1.59
29	01/06/14	Paint	Building 600	Room 604	Window sash	Metal	A	Intact	Negative	0.19	0.31	0.19	0.31	-0.85	2.3
30	01/06/14	Paint	Building 600	Room 604	Window crank bar	Metal	C	Intact	Negative	0.16	0.19	0.16	0.19	0.03	1.75
31	01/06/14	Paint	Building 600	Janitor storage	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.4	0.7
32	01/06/14	Paint	Building 600	Janitor storage	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.22	0.7
33	01/06/14	Paint	Building 600	Janitor storage	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.17	0.65
34	01/06/14	Paint	Building 600	Janitor storage	Wall	Brick	D	Intact	Null	0.01	0.03	0.01	0.03	0.1	1.24
35	01/06/14	Paint	Building 600	Janitor storage	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	0.3	0.68
36	01/06/14	Paint	Building 600	Janitor storage	Ceiling	Drywall		Intact	Negative	0.14	0.09	0.14	0.09	0.19	0.97

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
37	01/06/14	Paint	Building 600	Janitor storage	Shelf	Wood	A	Intact	Negative	0.23	0.23	0.23	0.23	0.5	1.1
38	01/06/14	Paint	Building 600	Janitor storage	Attic access	Wood		Intact	Negative	0.01	0.05	0.01	0.05	-0.22	0.78
39	01/06/14	Paint	Building 600	Janitor storage	Sink	Metal	B	Intact	Negative	0.01	0.02	0.01	0.02	-0.32	0.84
40	01/06/14	Paint	Building 600	Janitor storage	Water pipe	Metal	C	Intact	Negative	-0.31	0.9	0.29	0.24	-0.31	0.9
41	01/06/14	Paint	Building 600	Janitor storage	Door	Wood	C	Intact	Negative	0.03	0.07	0.03	0.07	-0.14	0.89
42	01/06/14	Paint	Building 600	Janitor storage	Door frame	Wood	C	Intact	Negative	0.21	0.18	0.21	0.18	0.6	1.3
43	01/06/14	Paint	Building 600	Office	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02	-0.1	0.75
44	01/06/14	Paint	Building 600	Office	Wall	Brick	A	Intact	Negative	0.03	0.03	0.03	0.03	0.3	0.67
45	01/06/14	Paint	Building 600	Office	Wall	Brick	C	Intact	Negative	0.02	0.02	0.02	0.02	0.25	0.67
46	01/06/14	Paint	Building 600	Office	Shelf	Wood	D	Intact	Negative	0.18	0.19	0.18	0.19	0.07	0.9
47	01/06/14	Paint	Building 600	Office	Sink	Porcelain	B	Intact	Negative	0.01	0.03	0.01	0.03	-0.06	1.31
48	01/06/14	Paint	Building 600	Office	Pipe	Metal	B	Intact	Negative	0.07	0.58	0.21	0.1	0.07	0.58

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
49	01/06/14	Paint	Building 600	Office	Board	Wood	B	Intact	Negative	0.1	0.15	0.1	0.15	-0.22	0.98
50	01/06/14	Paint	Building 600	Office	Baseboard	Wood	A	Intact	Negative	0	0.02	0	0.02	0.19	0.65
51	01/06/14	Paint	Building 600	Office	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	-0.06	0.67
52	01/06/14	Paint	Building 600	Office	Door frame	Wood	B	Intact	Negative	0.26	0.24	0.26	0.24	0.13	0.87
53	01/06/14	Paint	Building 600	Office	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.4	2.3
54	01/06/14	Paint	Building 600	Psychologist	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.06	0.69
55	01/06/14	Paint	Building 600	Psychologist	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	0.3	0.65
56	01/06/14	Paint	Building 600	Psychologist	Wall	Wood	C	Intact	Negative	0.01	0.03	0.01	0.03	-0.21	0.96
57	01/06/14	Paint	Building 600	Psychologist	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.25	0.57
58	01/06/14	Paint	Building 600	Psychologist	Ceiling	Wood		Intact	Negative	0.12	0.05	0.12	0.05	0.4	0.5
59	01/06/14	Paint	Building 600	Psychologist	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	0.1	1.69
60	01/06/14	Paint	Building 600	Psychologist	Baseboard	Wood	C	Intact	Negative	0	0.02	0	0.02	0.14	0.79

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
61	01/06/14	Paint	Building 600	Psychologist	Shelf	Wood	D	Intact	Negative	0.16	0.16	0.16	0.16	0.07	0.92
62	01/06/14	Paint	Building 600	Psychologist	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.23	1.63
63	01/06/14	Paint	Building 600	Psychologist	Door	Wood	B	Intact	Null	0	0.03	0	0.03	-0.09	1.5
64	01/06/14	Paint	Building 600	Psychologist	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	0.14	0.86
65	01/06/14	Paint	Building 600	Psychologist	Door frame	Wood	B	Intact	Negative	0.22	0.25	0.22	0.25	0.23	0.87
66	01/06/14	Paint	Building 600	Heater room	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.3	0.7
67	01/06/14	Paint	Building 600	Heater room	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.4	0.6
68	01/06/14	Paint	Building 600	Heater room	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.3	0.69
69	01/06/14	Paint	Building 600	Heater room	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.24	0.66
70	01/06/14	Paint	Building 600	Heater room	Ceiling	Drywall		Intact	Negative	0.07	0.03	0.07	0.03	0.27	0.52
71	01/06/14	Paint	Building 600	Heater room	Conduit	Metal	B	Intact	Negative	-0.12	0.74	0.27	0.19	-0.12	0.74
72	01/06/14	Paint	Building 600	Heater room	Door	Wood	A	Intact	Negative	0.03	0.05	0.03	0.05	0.04	0.77

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
73	01/06/14	Paint	Building 600	Heater room	Door frame	Metal	A	Intact	Negative	0.04	0.05	0.04	0.05	-0.14	2.36
74	01/06/14	Paint	Building 600	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.4	0.6
75	01/06/14	Paint	Building 600	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.22	0.58
76	01/06/14	Paint	Building 600	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	0.5	0.7
77	01/06/14	Paint	Building 600	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.03	0.01	0.03	0.5	0.7
78	01/06/14	Paint	Building 600	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.16	2.04
79	01/06/14	Paint	Building 600	Exterior	Wall vent	Metal	A	Intact	Negative	0.4	0.3	0.4	0.3	0.19	1.4
80	01/06/14	Paint	Building 600	Exterior	Overhang ceiling	Wood	A	Intact	Positive	1.6	0.7	1.6	0.7	1.8	1.3
81	01/06/14	Paint	Building 600	Exterior	Fascia	Wood	A	Intact	Positive	1.2	0.4	1.2	0.3	1.2	0.4
82	01/06/14	Paint	Building 600	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	0.02	1.83
83	01/06/14	Paint	Building 600	Exterior	Gutter	Metal	A	Intact	Null	1.2	0.4	1.2	0.4	1.3	0.7
84	01/06/14	Paint	Building 600	Exterior	Gutter	Metal	A	Intact	Positive	1.7	0.9	1.9	0.6	1.7	0.9

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
85	01/06/14	Paint	Building 600	Exterior	Downspout	Metal	A	Intact	Negative	0.21	0.33	0.21	0.33	0.29	2.06
86	01/06/14	Paint	Building 600	Exterior	Downspout	Metal	A	Intact	Positive	1.2	0.4	1.2	0.4	1.2	0.8
87	01/06/14	Paint	Building 600	Exterior	Electrical box	Metal	A	Intact	Null	0	0.02	0	0.02	-0.18	6.98
88	01/06/14	Paint	Building 600	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.54	1.52
89	01/06/14	Paint	Building 600	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.05	2.38
90	01/06/14	Paint	Building 600	Exterior	Door	Wood	A	Intact	Negative	0.5	0.2	0.5	0.2	0.4	0.5
91	01/06/14	Paint	Building 600	Exterior	Door frame	Metal	A	Intact	Negative	0.14	0.24	0.14	0.24	-0.41	2.37
92	01/06/14	Paint	Building 600	Exterior	Window frame	Metal	A	Intact	Negative	0.14	0.23	0.14	0.23	0.17	2.16
93	01/06/14	Paint	Building 600	Exterior	Window sash	Metal	A	Intact	Negative	0.05	0.09	0.05	0.09	-0.55	2.41
94	01/06/14	Paint	Building 600	Exterior	Covered walkway ceiling	Wood	C	Intact	Positive	2.2	1	2.2	1	2.9	1.5
95	01/06/14	Paint	Building 600	Exterior	Beam	Wood	C	Intact	Negative	0.13	0.48	0.22	0.12	0.13	0.48
96	01/06/14	Paint	Building 600	Exterior	Door	Wood	C	Intact	Negative	0.4	0.3	0.6	0.1	0.4	0.3

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
97	01/06/14	Paint	Building 600	Exterior	Door frame	Wood	C	Intact	Negative	0.25	0.13	0.25	0.13	0.4	0.4
98	01/06/14	Paint	Building 600	Exterior	Window frame	Wood	C	Intact	Negative	0.14	0.19	0.14	0.19	0.3	1.17
99	01/06/14	Paint			Calibrate				Positive	1.7	0.7	1.7	0.7	1.5	3.2
100	01/06/14	Paint			Calibrate				Positive	1.7	0.7	1.7	0.7	1.5	2.7
101	01/06/14	Paint			Calibrate				Positive	1.5	0.6	1.5	0.6	1.3	2.8
102	01/06/14	Paint	Building 700	Room 701	Wall	Brick	A	Intact	Negative	0.06	0.07	0.06	0.07	0.18	0.68
103	01/06/14	Paint	Building 700	Room 701	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.13	0.64
104	01/06/14	Paint	Building 700	Room 701	Wall	Brick	C	Intact	Negative	0.06	0.05	0.06	0.05	0.29	0.73
105	01/06/14	Paint	Building 700	Room 701	Wall	Wood	D	Intact	Positive	2.7	1.7	3.9	1.9	2.7	1.7
106	01/06/14	Paint	Building 700	Room 701	Cabinet	Wood	D	Intact	Positive	2	1.1	2	1.1	2.2	1.5
107	01/06/14	Paint	Building 700	Room 701	Plenum access	Wood		Intact	Negative	0	0.02	0	0.02	0.04	0.98
108	01/06/14	Paint	Building 700	Room 701	Beam	Wood		Intact	Positive	1.8	0.9	1.8	0.9	2	1.6

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
109	01/06/14	Paint	Building 700	Room 701	Window frame	Wood	A	Intact	Positive	2.4	0.8	2.8	0.9	2.4	0.8
110	01/06/14	Paint	Building 700	Room 701	Window sash	Metal	A	Intact	Negative	0.11	0.16	0.11	0.16	0.22	2.4
111	01/06/14	Paint	Building 700	Room 701	Door	Wood	C	Intact	Negative	0.01	0.03	0.01	0.03	-0.28	0.98
112	01/06/14	Paint	Building 700	Room 701	Door frame	Wood	C	Intact	Positive	4.6	1.6	4.6	1.6	4.8	2
113	01/06/14	Paint	Building 700	Room 704	Wall	Brick	A	Intact	Negative	0.04	0.04	0.04	0.04	0.12	0.68
114	01/06/14	Paint	Building 700	Room 704	Wall	Brick	C	Intact	Negative	0.05	0.05	0.05	0.05	0.3	0.79
115	01/06/14	Paint	Building 700	Room 704	Wall	Brick	D	Intact	Negative	0.03	0.03	0.03	0.03	-0.01	0.78
116	01/06/14	Paint	Building 700	Room 704	Plenum access	Wood		Intact	Null	0	0.02	0	0.02	-0.23	1.66
117	01/06/14	Paint	Building 700	Room 704	Plenum access	Wood		Intact	Negative	0.01	0.04	0.01	0.04	0.06	0.63
118	01/06/14	Paint	Building 700	Room 704	Door	Wood	C	Intact	Negative	0.01	0.03	0.01	0.03	-0.15	0.93
119	01/06/14	Paint	Building 700	Room 704	Window sash	Metal	A	Intact	Negative	0.03	0.07	0.03	0.07	0.16	0.96
120	01/06/14	Paint	Building 700	Janitor storage	Wall	Brick	A	Intact	Null	0.07	0.03	0.07	0.03	0.6	0.7

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
121	01/06/14	Paint	Building 700	Janitor storage	Wall	Brick	A	Intact	Negative	0.1	0.04	0.1	0.04	0.4	0.6
122	01/06/14	Paint	Building 700	Janitor storage	Wall	Brick	B	Intact	Negative	0.03	0.03	0.03	0.03	-0.07	0.7
123	01/06/14	Paint	Building 700	Janitor storage	Wall	Brick	C	Intact	Negative	0.1	0.06	0.1	0.06	0.17	0.65
124	01/06/14	Paint	Building 700	Janitor storage	Wall	Brick	D	Intact	Negative	0.06	0.03	0.06	0.03	0.5	0.6
125	01/06/14	Paint	Building 700	Janitor storage	Ceiling	Drywall		Intact	Negative	0.04	0.07	0.04	0.07	-0.01	1.1
126	01/06/14	Paint	Building 700	Janitor storage	Attic hatch	Wood		Intact	Positive	3.8	2.3	3.8	2.3	4.4	3.9
127	01/06/14	Paint	Building 700	Janitor storage	Shelf	Wood	D	Intact	Negative	0.03	0.05	0.03	0.05	0.13	0.93
128	01/06/14	Paint	Building 700	Janitor storage	Water pipe	Metal	B	Intact	Null	0.24	0.43	0.24	0.43	0.9	2.4
129	01/06/14	Paint	Building 700	Janitor storage	Water pipe	Metal	B	Intact	Negative	0.18	0.23	0.18	0.23	-0.13	2.04
130	01/06/14	Paint	Building 700	Janitor storage	Sink	Metal	B	Intact	Positive	31.8	14.2	6.3	2.4	31.8	14.2
131	01/06/14	Paint	Building 700	Janitor storage	Conduit	Metal	B	Intact	Negative	0.14	0.2	0.14	0.2	0.4	2.1
132	01/06/14	Paint	Building 700	Janitor storage	Electrical box	Metal	B	Intact	Negative	0.01	0.03	0.01	0.03	-0.5	2.57

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
133	01/06/14	Paint	Building 700	Janitor storage	Door	Wood	C	Intact	Negative	0.03	0.08	0.03	0.08	-0.13	0.79
134	01/06/14	Paint	Building 700	Boys' restroom	Wall	Brick	A	Intact	Negative	0.04	0.03	0.04	0.03	0.4	0.7
135	01/06/14	Paint	Building 700	Boys' restroom	Wall	Brick	B	Intact	Negative	0.07	0.04	0.07	0.04	0.5	0.6
136	01/06/14	Paint	Building 700	Boys' restroom	Wall	Brick	C	Intact	Negative	0.11	0.07	0.11	0.07	0.4	0.6
137	01/06/14	Paint	Building 700	Boys' restroom	Wall	Brick	D	Intact	Negative	0.06	0.04	0.06	0.04	0.3	0.6
138	01/06/14	Paint	Building 700	Boys' restroom	Ceiling	Wood		Intact	Positive	2.1	0.9	2.1	0.9	1.8	1.6
139	01/06/14	Paint	Building 700	Boys' restroom	Window frame	Wood	A	Intact	Negative	0.4	0.4	0.4	0.4	0.4	1.1
140	01/06/14	Paint	Building 700	Boys' restroom	Window sash	Metal	A	Intact	Negative	0.13	0.15	0.13	0.15	0.7	2.5
141	01/06/14	Paint	Building 700	Boys' restroom	Toilet	Porcelain		Intact	Negative	0	0.02	0	0.02	-0.07	0.83
142	01/06/14	Paint	Building 700	Boys' restroom	Urinal	Porcelain		Intact	Negative	0.01	0.03	0.01	0.03	-0.59	1.6
143	01/06/14	Paint	Building 700	Boys' restroom	Sink	Porcelain		Intact	Positive	27.8	13.1	7.1	2.7	27.8	13.1
144	01/06/14	Paint	Building 700	Boys' restroom	Door	Wood	B	Intact	Negative	0.07	0.14	0.07	0.14	-0.18	0.84

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
145	01/06/14	Paint	Building 700	Boys' restroom	Door frame	Wood	B	Intact	Null	2	1.6	2	1.6	2.5	1.9
146	01/06/14	Paint	Building 700	Boys' restroom	Door frame	Wood	B	Intact	Positive	2.8	1.5	2.3	1.3	2.8	1.5
147	01/06/14	Paint	Building 700	Girls' restroom	Stalls	Metal		Intact	Negative	0.02	0.04	0.02	0.04	-0.28	2.03
148	01/06/14	Paint	Building 700	Heater room	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.22	0.68
149	01/06/14	Paint	Building 700	Heater room	Wall	Brick	B	Intact	Negative	0.05	0.03	0.05	0.03	0.26	0.74
150	01/06/14	Paint	Building 700	Heater room	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.16	0.72
151	01/06/14	Paint	Building 700	Heater room	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.3	0.71
152	01/06/14	Paint	Building 700	Heater room	Ceiling	Drywall		Intact	Negative	0.04	0.03	0.04	0.03	0.26	0.58
153	01/06/14	Paint	Building 700	Heater room	Conduit	Metal	B	Intact	Negative	0.05	0.06	0.05	0.06	-0.06	2.75
154	01/06/14	Paint	Building 700	Heater room	Electrical box	Metal	B	Intact	Negative	0.04	0.06	0.04	0.06	0.04	2.52
155	01/06/14	Paint	Building 700	Heater room	Door	Wood	A	Intact	Positive	1.1	0.3	1.1	0.3	1	1.3
156	01/06/14	Paint	Building 700	Heater room	Door frame	Metal	A	Intact	Negative	0.11	0.08	0.11	0.08	0.4	2.4

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbC Error	PbL Error	PbK Error	PbK Error
157	01/06/14	Paint	Building 700	Exterior	Overhang ceiling	Wood	A	Intact	Positive	1.8	0.9	1.8	0.9	2.4	1.8
158	01/06/14	Paint	Building 700	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.04	0.69
159	01/06/14	Paint	Building 700	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.12	0.65
160	01/06/14	Paint	Building 700	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	0.25	0.75
161	01/06/14	Paint	Building 700	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.4	0.7
162	01/06/14	Paint	Building 700	Exterior	Wall vent	Metal	A	Fair	Null	0.08	0.07	0.08	0.07	0.4	0.7
163	01/06/14	Paint	Building 700	Exterior	Wall vent	Metal	A	Fair	Negative	0.1	0.21	0.1	0.21	0.26	1.61
164	01/06/14	Paint	Building 700	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	0.11	2.12
165	01/06/14	Paint	Building 700	Exterior	Fascia	Wood	A	Intact	Positive	2.2	1.1	2.2	1.1	4.4	2.2
166	01/06/14	Paint	Building 700	Exterior	Flashing	Metal	A	Intact	Null	0	0.02	0	0.02	0.03	8.74
167	01/06/14	Paint	Building 700	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.31	1.4
168	01/06/14	Paint	Building 700	Exterior	Gutter	Metal	A	Intact	Negative	0	0.02	0	0.02	0.07	1.68

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
169	01/06/14	Paint	Building 700	Exterior	Downspout	Metal	A	Intact	Positive	1.9	1	0.9	0.3	1.9	1
170	01/06/14	Paint	Building 700	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-0.05	1.97
171	01/06/14	Paint	Building 700	Exterior	Window frame	Metal	A	Intact	Negative	0.06	0.12	0.06	0.12	-0.86	2.78
172	01/06/14	Paint	Building 700	Exterior	Window sash	Metal	A	Intact	Negative	0.03	0.05	0.03	0.05	-0.73	2.11
173	01/06/14	Paint	Building 700	Exterior	Door	Wood	A	Intact	Negative	0.27	0.09	0.27	0.09	0.28	0.5
174	01/06/14	Paint	Building 700	Exterior	Door frame	Metal	A	Intact	Negative	0.22	0.22	0.22	0.22	0.06	2.4
175	01/06/14	Paint	Building 700	Exterior	Door	Wood	B	Intact	Negative	0.3	0.28	0.3	0.28	-0.23	0.93
176	01/06/14	Paint	Building 700	Exterior	Door frame	Wood	B	Intact	Positive	2.3	1.1	2.3	1.1	3	2.2
177	01/06/14	Paint	Building 700	Exterior	Door	Wood	C	Intact	Negative	0.15	0.17	0.15	0.17	-0.29	0.89
178	01/06/14	Paint	Building 700	Exterior	Door frame	Wood	C	Intact	Positive	3.2	2.2	4.2	2.4	3.2	2.2
179	01/06/14	Paint	Building 700	Exterior	Window frame	Wood	C	Intact	Positive	5.1	3.1	2.6	2.2	5.1	3.1
180	01/06/14	Paint	Building 700	Exterior	Covered walkway ceiling	Wood	C	Intact	Positive	3.3	1.9	3.3	1.9	4.4	2.6

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
181	01/06/14	Paint	Building 700	Exterior	Covered walkway ceiling	Wood	C	Intact	Negative	0.23	0.25	0.23	0.25	0.6	1
182	01/06/14	Paint	Building 700	Exterior	Conduit	Metal	C	Intact	Positive	4	2.8	3	1.6	4	2.8
183	01/06/14	Paint	Building 700	Exterior	Floor stripe	Concrete	C	Intact	Negative	0.02	0.03	0.02	0.03	0.06	0.82
184	01/06/14	Paint			Calibrate				Positive	1.6	0.7	1.6	0.7	1.5	3.5
185	01/06/14	Paint			Calibrate				Positive	1.5	0.6	1.5	0.6	1	3
186	01/06/14	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	1.8	2
187	01/07/14	Paint			Shutter calibrate					2.3	0	0.33	0	0.01	0
188	01/07/14	Paint			Calibrate				Positive	1.7	0.9	1.7	0.9	1.5	3.9
189	01/07/14	Paint			Calibrate				Positive	1.3	0.6	1.3	0.6	1.6	3.3
190	01/07/14	Paint			Calibrate				Positive	1.3	0.5	1.3	0.5	1.5	2.8
191	01/07/14	Paint	Building 900	Room 903	Wall	Wood	A	Intact	Negative	0.1	0.15	0.1	0.15	-0.19	0.98
192	01/07/14	Paint	Building 900	Room 903	Wall	Brick	B	Intact	Negative	0.5	0.1	0.5	0.1	0.6	0.3

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
193	01/07/14	Paint	Building 900	Room 903	Wall	Brick	C	Intact	Negative	0.6	0.1	0.6	0.1	0.7	0.3
194	01/07/14	Paint	Building 900	Room 903	Wall	Brick	D	Intact	Negative	0.4	0.1	0.4	0.1	0.6	0.3
195	01/07/14	Paint	Building 900	Room 903	Beam	Wood		Intact	Negative	0.03	0.08	0.03	0.08	0	0.78
196	01/07/14	Paint	Building 900	Room 903	Conduit	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.08	1.95
197	01/07/14	Paint	Building 900	Room 903	Electrical box	Metal	D	Intact	Negative	0	0.02	0	0.02	0.23	2.25
198	01/07/14	Paint	Building 900	Room 903	Cabinet	Wood	A	Intact	Negative	0.22	0.25	0.22	0.25	0.5	1.1
199	01/07/14	Paint	Building 900	Room 903	Trim	Wood	B	Intact	Negative	0.4	0.2	0.4	0.2	0.9	0.6
200	01/07/14	Paint	Building 900	Room 903	Window frame	Wood	B	Intact	Null	0.9	0.2	0.9	0.2	0.9	0.2
201	01/07/14	Paint	Building 900	Room 903	Window frame	Wood	B	Intact	Positive	1	0.3	1	0.3	0.9	0.5
202	01/07/14	Paint	Building 900	Room 903	Window sash	Metal	B	Intact	Negative	0.4	0.3	0.4	0.3	-0.2	1.78
203	01/07/14	Paint	Building 900	Room 903	Window guard	Wood	D	Intact	Negative	0	0.02	0	0.02	0	0.9
204	01/07/14	Paint	Building 900	Room 903	Window crank bar	Metal	D	Intact	Negative	0.16	0.08	0.16	0.08	-0.48	1.05

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
205	01/07/14	Paint	Building 900	Room 903	Door	Wood	B	Intact	Negative	0.03	0.09	0.03	0.09	0.02	0.86
206	01/07/14	Paint	Building 900	Room 903	Door frame	Wood	B	Intact	Negative	0.24	0.37	0.7	0.3	0.24	0.37
207	01/07/14	Paint	Building 900	Room 902	Wall	Brick	A	Intact	Negative	0.4	0.1	0.4	0.1	0.7	0.5
208	01/07/14	Paint	Building 900	Room 902	Wall	Brick	B	Intact	Positive	1.2	0.5	0.7	0.2	1.2	0.5
209	01/07/14	Paint	Building 900	Room 902	Wall	Wood	C	Intact	Negative	0.12	0.2	0.12	0.2	0.17	0.95
210	01/07/14	Paint	Building 900	Room 902	Cabinet	Wood	C	Intact	Negative	0.3	0.19	0.3	0.19	0.4	1.1
211	01/07/14	Paint	Building 900	Room 902	Cabinet	Wood	C	Intact	Negative	0.26	0.26	0.26	0.26	0.19	1.04
212	01/07/14	Paint	Building 900	Room 902	Cabinet door	Wood	C	Intact	Positive	3.3	2	1.6	1	3.3	2
213	01/07/14	Paint	Building 900	Room 902	Window guard	Wood	D	Intact	Negative	0	0.02	0	0.02	0.5	1
214	01/07/14	Paint	Building 900	Room 902	Window crank bar	Metal	D	Intact	Negative	0.3	0.25	0.3	0.25	0.5	2.4
215	01/07/14	Paint	Building 900	Room 902	Beam	Wood		Intact	Negative	0.4	0.2	0.4	0.2	0.29	0.46
216	01/07/14	Paint	Building 900	Room 902	Door	Wood	D	Intact	Negative	0.01	0.02	0.01	0.02	0.12	0.86

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
217	01/07/14	Paint	Building 900	Room 902	Door frame	Wood	D	Intact	Null	0.4	0.6	0.4	0.6	0.6	1.2
218	01/07/14	Paint	Building 900	Room 902	Door frame	Wood	D	Intact	Negative	0.25	0.33	0.25	0.33	0.7	1.1
219	01/07/14	Paint	Building 900	Room 901	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02	0.5	0.8
220	01/07/14	Paint	Building 900	Room 901	Beam	Wood		Intact	Positive	1.1	0.2	1.1	0.2	1.2	0.5
221	01/07/14	Paint	Building 900	Room 901	Window crank bar	Metal	D	Intact	Negative	-0.31	0.98	0.19	0.18	-0.31	0.98
222	01/07/14	Paint	Building 900	Room 901	Door	Wood	D	Intact	Negative	0.01	0.05	0.01	0.05	0.2	0.89
223	01/07/14	Paint	Building 900	Room 901	Door frame	Wood	D	Intact	Null	0.4	0.2	0.4	0.2	0.5	0.3
224	01/07/14	Paint	Building 900	Room 901	Door frame	Wood	D	Intact	Negative	0.4	0.1	0.4	0.1	0.5	0.3
225	01/07/14	Paint	Building 900	Room 901	Door	Wood	A	Intact	Negative	0	0.02	0	0.02	-0.34	1.05
226	01/07/14	Paint	Building 900	Room 901	Door frame	Wood	A	Intact	Negative	0	0.02	0	0.02	0.07	2.08
227	01/07/14	Paint	Building 900	Copy room	Cabinet	Metal	C	Intact	Negative	0.02	0.03	0.02	0.03	-0.39	1.66
228	01/07/14	Paint	Building 900	Copy room	Cabinet	Metal	A	Intact	Negative	0.05	0.12	0.05	0.12	-0.48	2.24

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
229	01/07/14	Paint	Building 900	Copy room	Door	Wood	B	Intact	Negative	0.02	0.04	0.02	0.04	0.11	0.5
230	01/07/14	Paint	Building 900	Copy room	Door frame	Wood	B	Intact	Null	0.8	0.4	0.8	0.4	1.1	0.6
231	01/07/14	Paint	Building 900	Copy room	Door frame	Wood	B	Intact	Null	0.5	0.1	0.5	0.1	0.6	0.2
232	01/07/14	Paint	Building 900	Copy room	Door frame	Wood	B	Intact	Negative	0	0.02	0	0.02	-0.45	2.49
233	01/07/14	Paint	Building 900	Janitor storage	Wall	Brick	A	Intact	Null	0.11	0.11	0.11	0.11	0.04	1.71
234	01/07/14	Paint	Building 900	Janitor storage	Wall	Brick	A	Intact	Negative	0.3	0.09	0.3	0.09	0.5	0.5
235	01/07/14	Paint	Building 900	Janitor storage	Wall	Brick	B	Intact	Negative	0.3	0.06	0.3	0.06	0.7	0.3
236	01/07/14	Paint	Building 900	Janitor storage	Wall	Brick	C	Intact	Null	0.23	0.09	0.23	0.09	0.7	0.6
237	01/07/14	Paint	Building 900	Janitor storage	Wall	Brick	C	Intact	Positive	1	0.3	0.5	0.1	1	0.3
238	01/07/14	Paint	Building 900	Janitor storage	Ceiling	Drywall		Intact	Negative	0.01	0.03	0.01	0.03	0.1	0.96
239	01/07/14	Paint	Building 900	Janitor storage	Attic access	Wood		Intact	Negative	0.29	0.26	0.29	0.26	0.5	1
240	01/07/14	Paint	Building 900	Janitor storage	Shelf	Wood	B	Intact	Negative	0.4	0.2	0.4	0.2	0.4	0.9

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
241	01/07/14	Paint	Building 900	Janitor storage	Water pipe	Metal	C	Intact	Negative	0.1	0.17	0.1	0.17	-0.4	2.14
242	01/07/14	Paint	Building 900	Janitor storage	Swinging door	Wood	D	Intact	Negative	0.01	0.03	0.01	0.03	-0.14	1.1
243	01/07/14	Paint	Building 900	Janitor storage	Door	Wood	D	Intact	Negative	0.02	0.05	0.02	0.05	0.29	0.78
244	01/07/14	Paint	Building 900	Janitor storage	Door frame	Wood	D	Intact	Positive	0.9	0.2	0.9	0.2	1.2	0.5
245	01/07/14	Paint	Building 900	Heater room	Wall	Brick	A	Intact	Negative	0.06	0.04	0.06	0.04	0.4	0.7
246	01/07/14	Paint	Building 900	Heater room	Wall	Brick	B	Intact	Negative	0.02	0.02	0.02	0.02	0.22	0.7
247	01/07/14	Paint	Building 900	Heater room	Wall	Brick	C	Intact	Negative	0.17	0.03	0.17	0.03	0.5	0.3
248	01/07/14	Paint	Building 900	Heater room	Wall	Brick	D	Intact	Negative	0.17	0.02	0.17	0.02	0.5	0.3
249	01/07/14	Paint	Building 900	Heater room	Ceiling	Drywall		Intact	Negative	0.02	0.02	0.02	0.02	0.28	0.67
250	01/07/14	Paint	Building 900	Heater room	Conduit	Metal	C	Intact	Negative	0.12	0.08	0.12	0.08	0.3	2.02
251	01/07/14	Paint	Building 900	Heater room	Electrical box	Metal	C	Intact	Negative	0.2	0.07	0.2	0.07	-0.08	1.09
252	01/07/14	Paint	Building 900	Heater room	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	0.11	0.91

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
253	01/07/14	Paint	Building 900	Heater room	Door frame	Metal	B	Poor	Negative	0.5	0.2	0.5	0.2	0.5	1.8
254	01/07/14	Paint	Building 900	Exterior	Wall	Brick	A	Intact	Negative	0.02	0.03	0.02	0.03	0.29	0.67
255	01/07/14	Paint	Building 900	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.3	0.66
256	01/07/14	Paint	Building 900	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.5	0.6
257	01/07/14	Paint	Building 900	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.25	0.6
258	01/07/14	Paint	Building 900	Exterior	Window frame	Wood	D	Intact	Positive	1.8	0.9	1.8	0.9	2.3	1.3
259	01/07/14	Paint	Building 900	Exterior	Door	Wood	D	Intact	Positive	2.5	0.7	2.5	0.7	2.1	0.7
260	01/07/14	Paint	Building 900	Exterior	Door frame	Wood	D	Intact	Positive	1.4	0.6	1.4	0.6	1.3	1.1
261	01/07/14	Paint	Building 900	Exterior	Covered walkway ceiling	Wood	D	Intact	Positive	4	1.9	4	1.9	3.4	2
262	01/07/14	Paint	Building 900	Exterior	Beam	Wood	D	Intact	Negative	0.08	0.11	0.08	0.11	0.08	1.11
263	01/07/14	Paint	Building 900	Exterior	Fascia	Wood	D	Intact	Positive	2.4	1.3	2.4	1.3	2.9	1.9
264	01/07/14	Paint	Building 900	Exterior	Flashing	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.05	1.7

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
265	01/07/14	Paint	Building 900	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.29	2.6
266	01/07/14	Paint	Building 900	Exterior	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.61	2.31
267	01/07/14	Paint	Building 900	Exterior	Conduit	Metal	D	Intact	Negative	0	0.02	0	0.02	0.3	1.97
268	01/07/14	Paint	Building 900	Exterior	Window sash	Metal	D	Intact	Positive	1.8	0.9	1.8	0.9	1.7	2.6
269	01/07/14	Paint	Building 900	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-1.24	2.58
270	01/07/14	Paint	Building 900	Exterior	Overhang ceiling	Wood	D	Intact	Positive	2.9	1.3	2.9	1.3	3.6	2
271	01/07/14	Paint	Building 900	Exterior	Gutter	Metal	B	Intact	Positive	1.2	0.5	1.2	0.5	1	1.5
272	01/07/14	Paint	Building 900	Exterior	Downspout	Metal	B	Intact	Null	2.1	3	2.1	3	3.1	5.3
273	01/07/14	Paint	Building 900	Exterior	Downspout	Metal	B	Intact	Positive	3.5	1	2.6	0.7	3.5	1
274	01/07/14	Paint	Building 900	Exterior	Floor stripe	Concrete	D	Intact	Negative	0.01	0.02	0.01	0.02	0.24	0.7
275	01/07/14	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	1.5	1.9
276	01/07/14	Paint			Calibrate				Positive	1.4	0.6	1.4	0.6	1.9	3.1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
277	01/07/14	Paint			Calibrate				Positive	1.4	0.5	1.7
278	01/07/14	Paint	Building 800	Room M1	Wall	Brick	A	Intact	Negative	0.02	0.02	0.23
279	01/07/14	Paint	Building 800	Room M1	Wall	Brick	B	Intact	Negative	0.02	0.02	0.5
280	01/07/14	Paint	Building 800	Room M1	Wall	Brick	C	Intact	Negative	0.01	0.02	0.15
281	01/07/14	Paint	Building 800	Room M1	Wall	Brick	D	Intact	Negative	0.02	0.02	0.08
282	01/07/14	Paint	Building 800	Room M1	Plenum access	Wood		Intact	Negative	0	0.02	0.3
283	01/07/14	Paint	Building 800	Room M1	Beam	Wood		Intact	Positive	2.6	1.1	3.2
284	01/07/14	Paint	Building 800	Room M1	Wall	Wood	B	Intact	Positive	2	1	2.3
285	01/07/14	Paint	Building 800	Room M1	Soffit	Wood	B	Intact	Positive	2.6	1.6	2.6
286	01/07/14	Paint	Building 800	Room M1	Cabinet	Wood	B	Intact	Positive	4.8	2.2	3.5
287	01/07/14	Paint	Building 800	Room M1	Window frame	Wood	C	Intact	Positive	8	7.1	8
288	01/07/14	Paint	Building 800	Room M1	Window sash	Metal	A	Intact	Negative	0.06	0.08	-0.28

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
289	01/07/14	Paint	Building 800	Room M1	Baseboard	Wood	A	Intact	Positive	4.6	1.9	4.6	1.9	5.2	3
290	01/07/14	Paint	Building 800	Room M1	Door	Wood	C	Intact	Negative	0.01	0.02	0.01	0.02	-0.15	0.84
291	01/07/14	Paint	Building 800	Room M1	Door frame	Wood	C	Intact	Positive	3.9	1.8	3.9	1.8	3.9	2.3
292	01/07/14	Paint	Building 800	Room M2	Wall	Brick	A	Intact	Negative	0.04	0.04	0.04	0.04	0.1	0.68
293	01/07/14	Paint	Building 800	Room M2	Door	Wood	C	Intact	Negative	0	0.02	0	0.02	-0.17	1.12
294	01/07/14	Paint	Building 800	Mechanical room	Wall	Brick	A	Intact	Null	0.07	0.36	0.07	0.36	-0.45	7.86
295	01/07/14	Paint	Building 800	Mechanical room	Wall	Brick	A	Intact	Negative	0.05	0.03	0.05	0.03	0.4	0.7
296	01/07/14	Paint	Building 800	Mechanical room	Wall	Brick	B	Intact	Negative	0.06	0.03	0.06	0.03	0.4	0.7
297	01/07/14	Paint	Building 800	Mechanical room	Wall	Brick	C	Intact	Negative	0.08	0.03	0.08	0.03	0.5	0.5
298	01/07/14	Paint	Building 800	Mechanical room	Wall	Brick	D	Intact	Negative	0.02	0.02	0.02	0.02	0.28	0.73
299	01/07/14	Paint	Building 800	Mechanical room	Ceiling	Drywall		Intact	Negative	0.05	0.03	0.05	0.03	0.3	0.7
300	01/07/14	Paint	Building 800	Mechanical room	Soffit	Drywall		Intact	Negative	0.04	0.02	0.04	0.02	0.5	0.6

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
301	01/07/14	Paint	Building 800	Mechanical room	Conduit	Metal	B	Intact	Negative	-0.2	0.82	0.21	0.25	-0.2	0.82
302	01/07/14	Paint	Building 800	Mechanical room	Electrical box	Metal	B	Intact	Negative	0.02	0.04	0.02	0.04	-0.43	1.95
303	01/07/14	Paint	Building 800	Mechanical room	Door	Wood	A	Intact	Negative	0.03	0.04	0.03	0.04	-0.02	0.87
304	01/07/14	Paint	Building 800	Mechanical room	Door frame	Metal	A	Intact	Negative	0.26	0.16	0.26	0.16	-0.12	2.47
305	01/07/14	Paint	Building 800	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.13	0.63
306	01/07/14	Paint	Building 800	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.4	0.6
307	01/07/14	Paint	Building 800	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.15	0.7
308	01/07/14	Paint	Building 800	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.3	0.73
309	01/07/14	Paint	Building 800	Exterior	Water pipe	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.16	2.43
310	01/07/14	Paint	Building 800	Exterior	Conduit	Metal	C	Intact	Positive	1.1	0.4	1.1	0.4	1.1	1
311	01/07/14	Paint	Building 800	Exterior	Covered walkway beam	Wood	C	Intact	Negative	0.08	0.1	0.08	0.1	-0.14	0.66
312	01/07/14	Paint	Building 800	Exterior	Covered walkway ceiling	Wood	C	Intact	Positive	4.5	2.2	4.5	2.2	4.5	2.5

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
313	01/07/14	Paint	Building 800	Exterior	Fascia	Wood	C	Intact	Positive	6.3	3	5.7	3.1	6.3	3
314	01/07/14	Paint	Building 800	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	0	1.78
315	01/07/14	Paint	Building 800	Exterior	Gutter	Metal	A	Intact	Positive	3.2	1.6	3.2	1.6	3	2.7
316	01/07/14	Paint	Building 800	Exterior	Downspout	Metal	A	Intact	Positive	1.6	0.8	1.7	0.5	1.6	0.8
317	01/07/14	Paint	Building 800	Exterior	Overhang ceiling	Wood	A	Intact	Positive	2.2	1.4	2.2	1.4	2.6	1.9
318	01/07/14	Paint	Building 800	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	0.21	1.84
319	01/07/14	Paint	Building 800	Exterior	Window frame	Wood	C	Intact	Positive	3.2	1.9	4	2.2	3.2	1.9
320	01/07/14	Paint	Building 800	Exterior	Window sash	Metal	C	Intact	Negative	0.04	0.07	0.04	0.07	-0.68	2.71
321	01/07/14	Paint	Building 800	Exterior	Door	Wood	C	Intact	Positive	2	1	2	1	1.5	1.1
322	01/07/14	Paint	Building 800	Exterior	Door frame	Wood	C	Intact	Positive	2.9	1.7	2.4	1.6	2.9	1.7
323	01/07/14	Paint	Building 800	Exterior	Door frame	Metal	A	Intact	Negative	0.19	0.2	0.19	0.2	0.24	2.08
324	01/07/14	Paint	Building 800	Exterior	Wall vent	Metal	A	Intact	Negative	0.07	0.21	0.07	0.21	-0.4	2.28

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
325	01/07/14	Paint	Building 800	Exterior	Conduit	Metal	A	Intact	Null	0.19	0.5	0.19	0.5	-0.08	2.43
326	01/07/14	Paint	Building 700	Boy's restroom	Wall	Terrazzo	A	Intact	Negative	0	0.02	0	0.02	-0.08	0.66
327	01/07/14	Paint	Building 700	Boy's restroom	Floor	Terrazzo		Intact	Negative	0	0.02	0	0.02	-0.23	0.63
328	01/07/14	Paint	Building 200	Room 204	Transom	Glass	B	Intact	Negative	0	0.02	0	0.02	-0.07	0.77
329	01/07/14	Paint	Building 200	Room 204	Window	Glass	D	Intact	Negative	0	0.02	0	0.02	-0.07	1.29
330	01/07/14	Paint			Calibrate				Positive	1.7	0.9	1.7	0.9	1.6	3.9
331	01/07/14	Paint			Calibrate				Positive	1.6	0.4	1.6	0.4	1.7	1.9
332	01/07/14	Paint			Calibrate				Positive	1.4	0.6	1.4	0.6	0.6	2.7
333	01/08/14	Paint			Shutter calibrate					2.56	0	0.44	0	0.01	0
334	01/08/14	Paint			Calibrate				Positive	1.3	0.5	1.3	0.5	1.1	2.5
335	01/08/14	Paint			Calibrate				Positive	1.6	0.7	1.6	0.7	1.5	3.3
336	01/08/14	Paint			Calibrate				Positive	1.4	0.5	1.4	0.5	1.2	2.6

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error			
337	01/08/14	Paint	Building 100	Room 101	Wall	Brick	A	Intact	Positive	0.9	0.2	0.6	0.1	0.9	0.2
338	01/08/14	Paint	Building 100	Room 101	Wall	Wood	D	Intact	Positive	0.8	0.1	1	0.1	0.8	0.1
339	01/08/14	Paint	Building 100	Room 101	Ceiling	Wood		Intact	Negative	0.28	0.31	0.28	0.31	0.7	0.8
340	01/08/14	Paint	Building 100	Room 101	Ceiling Beam	Wood		Fair	Negative	0.03	0.11	0.03	0.11	0.24	0.93
341	01/08/14	Paint	Building 100	Room 101	Conduit	Metal		Intact	Negative	0	0.02	0	0.02	-0.21	2.53
342	01/08/14	Paint	Building 100	Room 101	Door	Wood	A	Intact	Negative	-0.12	0.82	0.09	0.27	-0.12	0.82
343	01/08/14	Paint	Building 100	Room 101	Door frame	Wood	A	Intact	Positive	0.8	0.1	0.8	0.1	0.9	0.2
344	01/08/14	Paint	Building 100	Room 101	Window frame	Wood	A	Intact	Positive	0.7	0.1	0.7	0.1	0.8	0.2
345	01/08/14	Paint	Building 100	Room 101	Window sash	Metal	C	Intact	Negative	0.3	0.25	0.3	0.25	0.13	1.88
346	01/08/14	Paint	Building 100	Office 1	Wall	Drywall	B	Intact	Null	0.4	0.9	0.4	0.9	-0.78	7.83
347	01/08/14	Paint	Building 100	Office 1	Wall	Drywall	B	Intact	Negative	0.09	0.06	0.09	0.06	0.25	0.51
348	01/08/14	Paint	Building 100	Office 1	Ceiling	Drywall		Intact	Negative	0.07	0.06	0.07	0.06	0.01	0.53

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
349	01/08/14	Paint	Building 100	Office 1	Conduit	Metal		Intact	Negative	0	0.02	0	0.02	-0.14	2.46
350	01/08/14	Paint	Building 100	Office 1	Electrical box	Metal		Intact	Negative	0	0.02	0	0.02	-0.02	1.58
351	01/08/14	Paint	Building 100	Office 1	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	0.08	0.76
352	01/08/14	Paint	Building 100	Office 2	Ceiling	Wood		Intact	Negative	0	0.02	0	0.02	-0.16	1.61
353	01/08/14	Paint	Building 100	Office 2	Ceiling Beam	Wood		Intact	Negative	0	0.02	0	0.02	0.11	0.86
354	01/08/14	Paint	Building 100	Office 2	View port frame	Wood	B	Intact	Negative	0.03	0.1	0.03	0.1	0.17	0.89
355	01/08/14	Paint	Building 100	Office 2	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.3	1.48
356	01/08/14	Paint	Building 100	Office 2	Electrical box	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.08	1.54
357	01/08/14	Paint	Building 100	Office 2	Door frame	Metal	B	Intact	Negative	0.02	0.03	0.02	0.03	0.6	2.1
358	01/08/14	Paint	Building 100	Office 2	Breaker box	Metal	A	Intact	Negative	0.08	0.13	0.08	0.13	0.5	2.3
359	01/08/14	Paint	Building 100	Storage 101	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.17	1.57
360	01/08/14	Paint	Building 100	Storage 101	Electrical box	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.15	2.27

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
361	01/08/14	Paint	Building 100	Storage 101	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.88	2.44
362	01/08/14	Paint	Building 100	Storage 101	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.16	2.37
363	01/08/14	Paint	Building 100	Mechanical room	Door	Wood	C	Intact	Negative	0	0.02	0	0.02	0.05	0.96
364	01/08/14	Paint	Building 100	Mechanical room	Door frame	Metal	C	Intact	Negative	0.03	0.05	0.03	0.05	0.06	1.6
365	01/08/14	Paint	Building 100	Mechanical room	Wall	Drywall	C	Intact	Negative	0	0.02	0	0.02	0.2	0.88
366	01/08/14	Paint	Building 100	Room 102	Ceiling	Wood		Intact	Negative	0.2	0.33	0.2	0.33	0.16	1.12
367	01/08/14	Paint	Building 100	Room 102	Ceiling Beam	Wood		Intact	Null	0.14	0.26	0.14	0.26	0.15	0.71
368	01/08/14	Paint	Building 100	Room 102	Ceiling Beam	Wood		Intact	Null	0.15	0.48	0.15	0.48	0.6	2.2
369	01/08/14	Paint	Building 100	Room 102	Ceiling Beam	Wood		Intact	Negative	0.11	0.15	0.11	0.15	0.11	0.72
370	01/08/14	Paint	Building 100	Room 102	Electrical wire case	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.16	1.86
371	01/08/14	Paint	Building 100	Room 102	Wall vent	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.02	0.58
372	01/08/14	Paint	Building 100	Room 102	Window sash	Metal	A	Intact	Negative	0.19	0.21	0.19	0.21	-0.12	2.23

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
373	01/08/14	Paint	Building 100	Storage 102	Door	Wood	A	Intact	Negative	0	0	0.02
374	01/08/14	Paint	Building 100	Storage 102	Conduit	Metal	A	Intact	Negative	0	0	-0.13
375	01/08/14	Paint	Building 100	Storage 102	Electrical box	Metal	A	Intact	Negative	0	0	-0.25
376	01/08/14	Paint	Building 100	Storage	Wall	Terrazzo	B	Intact	Negative	0	0	0.19
377	01/08/14	Paint	Building 100	Storage	Floor	Terrazzo		Intact	Negative	0	0	-0.05
378	01/08/14	Paint	Building 100	Storage	Ceiling	Wood		Poor	Negative	0.4	0.4	0.5
379	01/08/14	Paint	Building 100	Storage	Wall	Wood	A	Intact	Negative	0.12	0.12	-0.27
380	01/08/14	Paint	Building 100	Storage	Door	Wood	C	Intact	Negative	0.02	0.02	-0.12
381	01/08/14	Paint	Building 100	Clinic room	Wall	Terrazzo	A	Intact	Null	0.5	0.5	0.8
382	01/08/14	Paint	Building 100	Clinic room	Wall	Terrazzo	A	Intact	Negative	0	0	-0.19
383	01/08/14	Paint	Building 100	Clinic room	Ceiling	Wood		Intact	Negative	0.08	0.15	0.08
384	01/08/14	Paint	Building 100	Clinic room	Floor	Terrazzo		Intact	Negative	0	0	0.33

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
385	01/08/14	Paint	Building 100	Clinic room	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.04	2.25
386	01/08/14	Paint	Building 100	Clinic room	Electrical box	Metal	B	Intact	Negative	0	0.02	0	0.02	0.15	1.99
387	01/08/14	Paint	Building 100	Clinic room	Door	Wood	B	Intact	Negative	0.01	0.05	0.01	0.05	-0.06	1.13
388	01/08/14	Paint	Building 100	Switchboard room	Wall	Brick	A	Intact	Negative	0.13	0.05	0.13	0.05	0.4	0.6
389	01/08/14	Paint	Building 100	Switchboard room	Wall	Brick	B	Intact	Negative	0.11	0.05	0.11	0.05	0.29	0.7
390	01/08/14	Paint	Building 100	Switchboard room	Wall	Wood	C	Intact	Negative	0.17	0.15	0.17	0.15	0.6	1.2
391	01/08/14	Paint	Building 100	Switchboard room	Wall	Brick	D	Intact	Null	0.2	0.06	0.2	0.06	0.5	0.5
392	01/08/14	Paint	Building 100	Switchboard room	Wall	Brick	D	Intact	Negative	0.14	0.05	0.14	0.05	0.27	0.62
393	01/08/14	Paint	Building 100	Switchboard room	Ceiling	Wood		Intact	Negative	0.11	0.05	0.11	0.05	0.4	0.5
394	01/08/14	Paint	Building 100	Switchboard room	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.09	2.86
395	01/08/14	Paint	Building 100	Switchboard room	Door	Wood	A	Intact	Negative	0.05	0.1	0.05	0.1	0.12	0.84
396	01/08/14	Paint	Building 100	Switchboard room	Door frame	Metal	A	Intact	Positive	1.1	0.4	1.1	0.4	0.9	2.1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
397	01/08/14	Paint	Building 100	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	0.24	0.7
398	01/08/14	Paint	Building 100	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.3	0.68
399	01/08/14	Paint	Building 100	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.5	0.7
400	01/08/14	Paint	Building 100	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	0.5	0.6
401	01/08/14	Paint	Building 100	Exterior	Door	Wood	A	Intact	Positive	2.2	1.4	2.7	1.3	2.2	1.4
402	01/08/14	Paint	Building 100	Exterior	Door frame	Metal	A	Intact	Positive	1	0.3	1	0.3	0.5	0.8
403	01/08/14	Paint	Building 100	Exterior	Door frame	Wood	B	Intact	Positive	1.8	0.5	1.8	0.5	1.4	0.7
404	01/08/14	Paint	Building 100	Exterior	Window frame	Wood	A	Intact	Positive	1.9	1	1.9	1	1.8	1.3
405	01/08/14	Paint	Building 100	Exterior	Window sash	Metal	A	Intact	Null	1.4	0.8	1.4	0.8	1.5	2.6
406	01/08/14	Paint	Building 100	Exterior	Window sash	Metal	A	Intact	Positive	1.7	0.5	1.7	0.5	1.4	1.1
407	01/08/14	Paint	Building 100	Exterior	Overhang ceiling	Wood	A	Intact	Positive	2.3	0.9	2.3	0.9	2.4	1.4
408	01/08/14	Paint	Building 100	Exterior	Fascia	Wood	A	Intact	Positive	2	0.8	2	0.8	2.8	1.7

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
409	01/08/14	Paint	Building 100	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	0.13	1.46
410	01/08/14	Paint	Building 100	Exterior	Gutter	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.24	1.27
411	01/08/14	Paint	Building 100	Exterior	Downspout	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.06	1.78
412	01/08/14	Paint	Building 100	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.47	2.41
413	01/08/14	Paint	Building 100	Exterior	Downspout	Metal	A	Intact	Negative	0.27	0.4	0.27	0.4	0.07	2.63
414	01/08/14	Paint	Building 100	Exterior	Covered walkway ceiling	Wood	C	Intact	Positive	2.2	1.3	1.7	1.1	2.2	1.3
415	01/08/14	Paint	Building 100	Exterior	Covered walkway beam	Wood	C	Intact	Positive	1.8	0.7	1.6	0.6	1.8	0.7
416	01/08/14	Paint	Building 100	Exterior	Covered walkway pole	Metal	C	Intact	Negative	0.18	0.28	0.18	0.28	-0.4	2.05
417	01/08/14	Paint	Building 100	Exterior	HVAC roof unit	Metal		Intact	Negative	0	0.02	0	0.02	-0.26	2.16
418	01/08/14	Paint	Building 100	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	0.3	0.39
419	01/08/14	Paint			Callibrate				Positive	1.6	0.8	1.6	0.8	1.9	4
420	01/08/14	Paint			Callibrate				Positive	1.6	0.8	1.6	0.8	1.7	3.8

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
421	01/08/14	Paint			Calibrate				Positive	1.5	0.7	1.5	0.7	1.8	3.2
422	01/08/14	Paint	Administration Building	Men's restroom	Wall	Wood	A	Intact	Positive	1.8	0.8	1.8	0.8	1.1	1.1
423	01/08/14	Paint	Administration Building	Men's restroom	Wall	Brick	B	Intact	Negative	0.4	0.1	0.4	0.1	0.7	0.2
424	01/08/14	Paint	Administration Building	Men's restroom	Ceiling	Wood		Intact	Positive	1.2	0.3	1.2	0.3	0.8	0.6
425	01/08/14	Paint	Administration Building	Men's restroom	Attic hatch	Wood		Intact	Negative	0.27	0.21	0.27	0.21	0.29	1.15
426	01/08/14	Paint	Administration Building	Men's restroom	Wall	Terrazzo	B	Intact	Negative	-0.15	0.79	0.01	0.02	-0.15	0.79
427	01/08/14	Paint	Administration Building	Men's restroom	Floor	Terrazzo		Intact	Negative	0	0.02	0	0.02	0.14	0.46
428	01/08/14	Paint	Administration Building	Men's restroom	Stall	Metal		Intact	Negative	0.18	0.14	0.18	0.14	0.17	0.81
429	01/08/14	Paint	Administration Building	Men's restroom	Urinal	Porcelain		Intact	Null	0.6	0.3	0.04	0.05	0.6	0.3
430	01/08/14	Paint	Administration Building	Men's restroom	Urinal	Porcelain		Intact	Null	0	0.02	0	0.02	0.3	1.25
431	01/08/14	Paint	Administration Building	Men's restroom	Urinal	Porcelain		Intact	Negative	0.02	0.04	0.02	0.04	0.4	0.6
432	01/08/14	Paint	Administration Building	Men's restroom	Toilet	Porcelain		Intact	Negative	0	0.02	0	0.02	0.4	0.8

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
433	01/08/14	Paint	Administration Building	Men's restroom	Sink	Metal		Intact	Positive	25.2	12.2	7.4	3	25.2	12.2
434	01/08/14	Paint	Administration Building	Men's restroom	Door	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.16	0.65
435	01/08/14	Paint	Administration Building	Men's restroom	Door frame	Wood	D	Intact	Negative	0.14	0.24	0.14	0.24	0.4	1
436	01/08/14	Paint	Administration Building	Men's restroom	Window frame	Wood	B	Intact	Negative	0.5	0.1	0.5	0.1	0.6	0.5
437	01/08/14	Paint	Administration Building	Men's restroom	Window sash	Metal	B	Intact	Negative	0.11	0.13	0.11	0.13	-0.33	2.66
438	01/08/14	Paint	Administration Building	Men's vestibule	Baseboard	Wood	B	Intact	Positive	1.2	0.4	1.2	0.4	1.1	0.9
439	01/08/14	Paint	Administration Building	Teachers' room	Wall	Brick	A	Intact	Negative	0.17	0.11	0.17	0.11	0.5	0.6
440	01/08/14	Paint	Administration Building	Teachers' room	Wall	Wood	B	Intact	Negative	0.09	0.16	0.09	0.16	0.19	1.18
441	01/08/14	Paint	Administration Building	Teachers' room	Wall	Brick	C	Intact	Negative	0.17	0.09	0.17	0.09	0.5	0.6
442	01/08/14	Paint	Administration Building	Teachers' room	Wall	Wood	D	Intact	Negative	-0.23	0.46	0.24	0.24	-0.23	0.46
443	01/08/14	Paint	Administration Building	Teachers' room	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.4	2.1
444	01/08/14	Paint	Administration Building	Teachers' room	Shelf	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.31	1.32

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
445	01/08/14	Paint	Administration Building	Teachers' room	Electrical box	Metal	A	Intact	Negative	0.04	0.01	0.04
446	01/08/14	Paint	Administration Building	Teachers' room	2X2 Ceiling tile	Fiberboard		Intact	Negative	0	0	0.11
447	01/08/14	Paint	Administration Building	Teachers' room	Cabinet	Wood	D	Intact	Negative	0.04	0.1	0.4
448	01/08/14	Paint	Administration Building	Teachers' room	Window frame	Wood	A	Intact	Positive	0.2	0.9	0.2
449	01/08/14	Paint	Administration Building	Teachers' room	Window sash	Metal	A	Intact	Negative	0.07	0.1	0.07
450	01/08/14	Paint	Administration Building	Teachers' room	Door	Metal	A	Intact	Negative	0.01	0.05	0.01
451	01/08/14	Paint	Administration Building	Teachers' room	Door frame	Wood	A	Intact	Null	0.4	0.2	0.4
452	01/08/14	Paint	Administration Building	Teachers' room	Door frame	Wood	A	Intact	Negative	0.26	0.32	0.32
453	01/08/14	Paint	Administration Building	Hallway	Door	Wood	B	Intact	Negative	0.01	0.05	0.01
454	01/08/14	Paint	Administration Building	Hallway	Door frame	Wood	B	Intact	Negative	0.5	0.1	0.5
455	01/08/14	Paint	Administration Building	Teachers' room	Wall vent	Metal	B	Intact	Negative	0.06	0.09	0.06
456	01/08/14	Paint	Administration Building	Teachers' room	Plenum access	Wood		Intact	Negative	0	0.02	0

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
457	01/08/14	Paint	Administration Building	Hallway	Wall	Wood	A	Intact	Negative	0.15	0.08	0.15	0.08	-0.02	0.41
458	01/08/14	Paint	Administration Building	Hallway	Wall	Wood	C	Intact	Negative	0.15	0.14	0.15	0.14	0.12	0.65
459	01/08/14	Paint	Administration Building	Hallway	Trim	Wood	C	Intact	Negative	0.09	0.13	0.09	0.13	0.04	0.95
460	01/08/14	Paint	Administration Building	Principal's office	Wall	Brick	A	Intact	Positive	1.7	0.8	0.5	0.2	1.7	0.8
461	01/08/14	Paint	Administration Building	Principal's office	Wall	Wood	B	Intact	Negative	0.02	0.06	0.02	0.06	-0.11	0.98
462	01/08/14	Paint	Administration Building	Principal's office	Wall	Wood	C	Intact	Negative	-0.11	0.73	0.22	0.34	-0.11	0.73
463	01/08/14	Paint	Administration Building	Principal's office	Wall	Wood	D	Intact	Negative	0.12	0.17	0.12	0.17	0.22	1
464	01/08/14	Paint	Administration Building	Principal's office	Door	Wood	A	Intact	Negative	0.04	0.11	0.04	0.11	0	0.94
465	01/08/14	Paint	Administration Building	Principal's office	Door frame	Wood	A	Intact	Negative	0.27	0.21	0.27	0.21	0.6	0.8
466	01/08/14	Paint	Administration Building	Principal's office	Door	Wood	C	Intact	Negative	-0.29	0.73	0.01	0.05	-0.29	0.73
467	01/08/14	Paint	Administration Building	Principal's office	Door frame	Wood	C	Intact	Negative	0.07	0.1	0.07	0.1	0.21	0.88
468	01/08/14	Paint	Administration Building	Reception area	Wall	Wood	B	Intact	Positive	1.6	0.8	1.6	0.8	1.2	1

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
469	01/08/14	Paint	Administration Building	Reception area	Door	Wood	A	Intact	Null	0	0.03	0	0.03	0.03	1.68
470	01/08/14	Paint	Administration Building	Reception area	Door	Wood	A	Intact	Negative	0.01	0.05	0.01	0.05	0.1	0.93
471	01/08/14	Paint	Administration Building	Reception area	Door frame	Wood	A	Intact	Negative	0.5	0.2	0.5	0.2	0.6	0.3
472	01/08/14	Paint	Administration Building	Nurse's office	Cabinet	Wood	A	Intact	Negative	0.25	0.29	0.25	0.29	0.4	1.1
473	01/08/14	Paint	Administration Building	Nurse's office	Door	Wood	D	Intact	Negative	0	0.02	0	0.02	0.16	0.89
474	01/08/14	Paint	Administration Building	Nurse's office	Door frame	Wood	D	Intact	Negative	0.4	0.2	0.4	0.2	0.4	0.8
475	01/08/14	Paint	Administration Building	Reception area	Vault door	Metal	D	Fair	Negative	0.01	0.02	0.01	0.02	0.04	2.4
476	01/08/14	Paint	Administration Building	Administration office #11	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	-0.15	0.88
477	01/08/14	Paint	Administration Building	Administration office #11	Door frame	Wood	B	Intact	Negative	0.13	0.17	0.13	0.17	0.16	0.96
478	01/08/14	Paint	Administration Building	Administration office #11	Door frame	Wood	D	Intact	Positive	1	0.3	1	0.2	1	0.3
479	01/08/14	Paint	Administration Building	Restroom	Wall	Terrazzo	D	Intact	Negative	0.11	0.58	0.01	0.02	0.11	0.58
480	01/08/14	Paint	Administration Building	Restroom	Floor	Terrazzo		Intact	Negative	0	0.02	0	0.02	0.1	0.48

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
481	01/08/14	Paint	Administration Building	Restroom	Stall	Metal		Intact	Negative	0.07	0.1	0.07	0.1	0.14	1.95
482	01/08/14	Paint	Administration Building	Restroom	Toilet	Porcelain		Intact	Negative	0	0.02	0	0.02	0.1	0.69
483	01/08/14	Paint	Administration Building	Restroom	Door	Wood	B	Intact	Negative	0	0.02	0	0.02	0.19	1.14
484	01/08/14	Paint	Administration Building	Restroom	Door frame	Wood	B	Intact	Negative	0.29	0.27	0.29	0.27	0.26	1
485	01/08/14	Paint	Administration Building	Janitor room	Wall	Drywall	A	Fair	Negative	0.17	0.1	0.17	0.1	0.12	0.95
486	01/08/14	Paint	Administration Building	Janitor room	Wall	Drywall	B	Intact	Negative	0.14	0.06	0.14	0.06	0.4	0.5
487	01/08/14	Paint	Administration Building	Janitor room	Wall	Drywall	C	Poor	Negative	0.18	0.08	0.18	0.08	0.25	0.57
488	01/08/14	Paint	Administration Building	Janitor room	Wall	Brick	D	Fair	Negative	0.3	0.04	0.3	0.04	0.6	0.3
489	01/08/14	Paint	Administration Building	Janitor room	Ceiling	Drywall		Poor	Negative	0.14	0.05	0.14	0.05	0.21	0.49
490	01/08/14	Paint	Administration Building	Janitor room	Shelf	Wood	B	Poor	Negative	0.3	0.26	0.3	0.26	0.3	0.84
491	01/08/14	Paint	Administration Building	Janitor room	Attic access	Wood		Intact	Negative	0.4	0.2	0.4	0.2	0.4	0.8
492	01/08/14	Paint	Administration Building	Janitor room	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.1	1.07

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
493	01/08/14	Paint	Administration Building	Janitor room	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.08	1.61
494	01/08/14	Paint	Administration Building	Janitor room	Door frame	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.42	1.8
495	01/08/14	Paint	Administration Building	Janitor room	Conduit	Metal	A	Intact	Negative	0.01	0.02	0.01	0.02	-0.25	1.9
496	01/08/14	Paint	Administration Building	Janitor room	Sink	Metal	C	Intact	Positive	47.1	25.7	9.7	5.1	47.1	25.7
497	01/08/14	Paint	Administration Building	Heater room	Wall	Brick	A	Intact	Negative	0.14	0.04	0.14	0.04	0.4	0.7
498	01/08/14	Paint	Administration Building	Heater room	Wall	Drywall	B	Intact	Negative	0.02	0.02	0.02	0.02	0.3	0.52
499	01/08/14	Paint	Administration Building	Heater room	Wall	Drywall	C	Intact	Negative	0.1	0.04	0.1	0.04	0.3	0.56
500	01/08/14	Paint	Administration Building	Heater room	Wall	Brick	D	Intact	Negative	0.13	0.04	0.13	0.04	0.22	0.76
501	01/08/14	Paint	Administration Building	Heater room	Ceiling	Drywall		Intact	Negative	0.09	0.04	0.09	0.04	0.11	0.53
502	01/08/14	Paint	Administration Building	Heater room	Conduit	Metal	C	Intact	Negative	0.13	0.13	0.13	0.13	0.11	2.57
503	01/08/14	Paint	Administration Building	Heater room	Electrical box	Metal	C	Intact	Negative	0	0.02	0	0.02	0.4	2.3
504	01/08/14	Paint	Administration Building	Heater room	Water pipe	Metal	D	Poor	Negative	0.06	0.06	0.06	0.06	-0.52	2.6

Little Lake City School District
Lake Center MS - Modernization

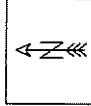
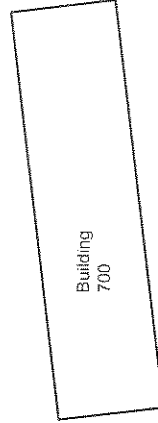
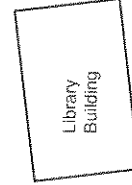
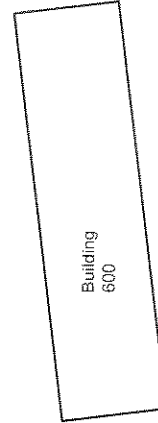
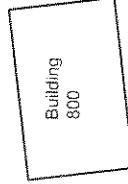
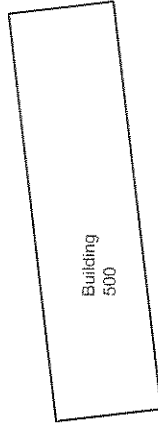
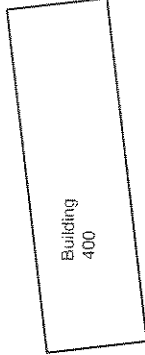
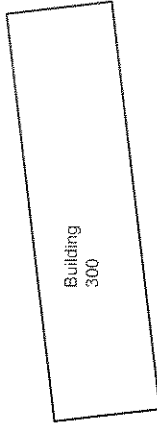
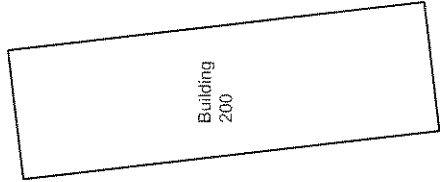
Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
505	01/08/14	Paint	Administration Building	Heater room	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	0.26	2.26
506	01/08/14	Paint	Administration Building	Heater room	Door frame	Metal	D	Intact	Negative	0.7	0.1	0.7	0.1	0.5	0.8
507	01/08/14	Paint	Administration Building	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.02	1.1
508	01/08/14	Paint	Administration Building	Exterior	Wall	Brick	B	Intact	Negative	0.02	0.04	0.02	0.04	0.4	0.7
509	01/08/14	Paint	Administration Building	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	0.26	0.65
510	01/08/14	Paint	Administration Building	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.4	0.7
511	01/08/14	Paint	Administration Building	Exterior	Conduit	Metal	D	Intact	Negative	0.23	0.23	0.23	0.23	0.5	1.8
512	01/08/14	Paint	Administration Building	Exterior	Window frame	Wood	C	Intact	Positive	1.2	0.4	1.2	0.4	1.1	1.9
513	01/08/14	Paint	Administration Building	Exterior	Window sash	Metal	C	Intact	Positive	1.7	0.6	1.7	0.6	1.4	2.6
514	01/08/14	Paint	Administration Building	Exterior	Door	Metal	C	Intact	Negative	0.09	0.15	0.09	0.15	0.5	1.1
515	01/08/14	Paint	Administration Building	Exterior	Door frame	Wood	C	Intact	Positive	1.7	0.7	2.2	0.7	1.7	0.7
516	01/08/14	Paint	Administration Building	Exterior	Overhang ceiling	Wood	C	Intact	Positive	3.6	2.1	4.2	2.3	3.6	2.1

Little Lake City School District
Lake Center MS - Modernization

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
517	01/08/14	Paint	Administration Building	Exterior	Fascia	Wood	C	Intact	Positive	1.8	0.8	1.8	0.8	2.3	1.5
518	01/08/14	Paint	Administration Building	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	0.3	1.68
519	01/08/14	Paint	Administration Building	Exterior	Gutter	Metal	C	Intact	Null	0.7	0.1	0.7	0.1	0.7	0.7
520	01/08/14	Paint	Administration Building	Exterior	Gutter	Metal	C	Intact	Positive	0.8	0.1	0.8	0.1	0.6	0.4
521	01/08/14	Paint	Administration Building	Exterior	Downspout	Metal	C	Intact	Negative	0	0.02	0	0.02	0.05	1.37
522	01/08/14	Paint	Administration Building	Exterior	Downspout	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.03	1.06
523	01/08/14	Paint	Administration Building	Exterior	Downspout	Metal	C	Intact	Negative	0.26	0.33	0.26	0.33	-0.25	2.21
524	01/08/14	Paint	Administration Building	Exterior	Floor stripe	Concrete	C	Intact	Negative	0.01	0.02	0.01	0.02	0.29	0.68
525	01/08/14	Paint			Calibrate				Positive	1.3	0.6	1.3	0.6	1	2.9
526	01/08/14	Paint			Calibrate				Positive	1.6	0.7	1.6	0.7	1.1	2.7
527	01/08/14	Paint			Calibrate				Positive	1.7	0.7	1.7	0.7	1.3	3.2

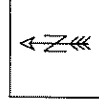
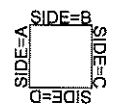
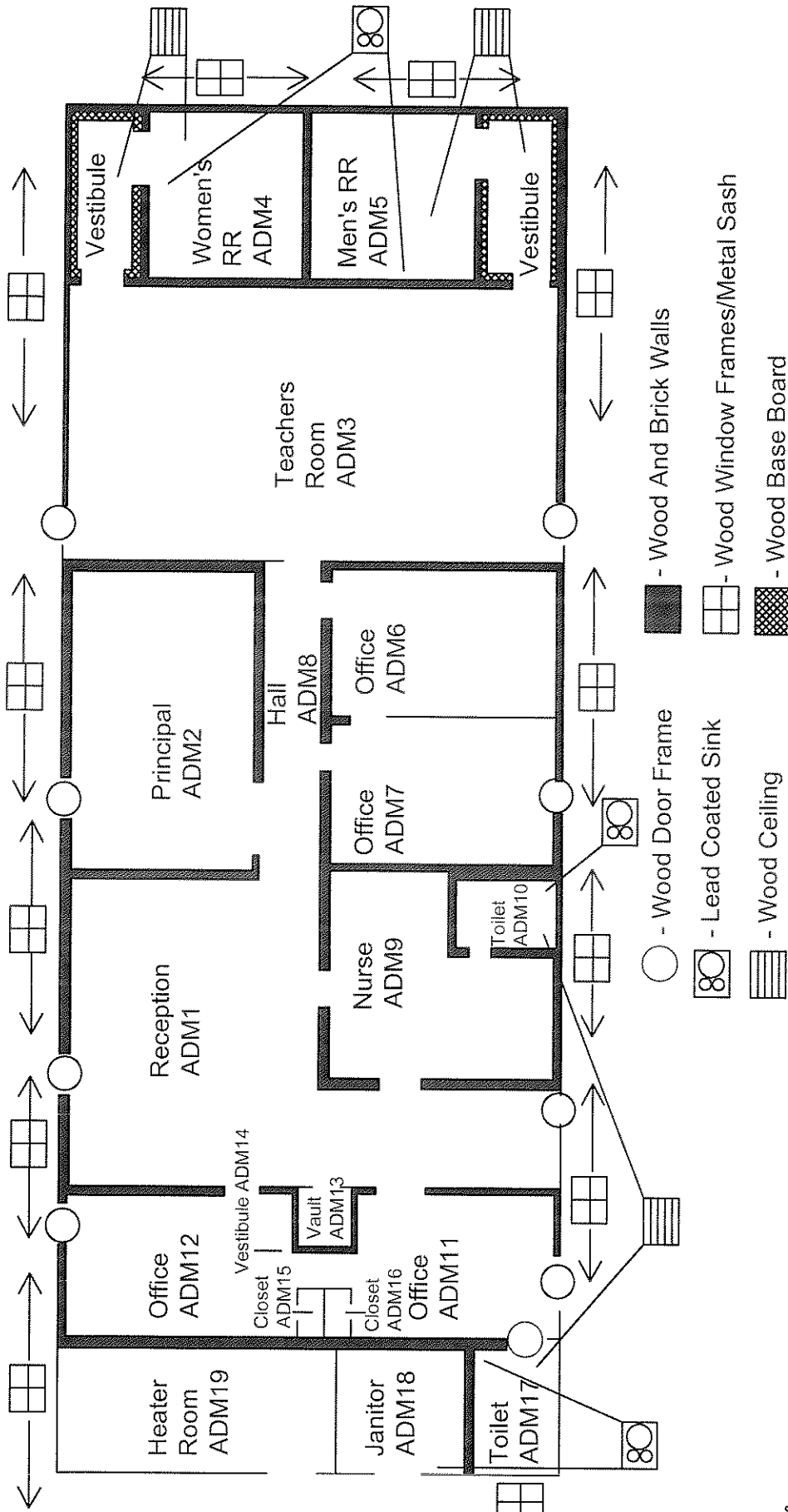
APPENDIX B – SITE DRAWING


Site Plan of Buildings to be Modernized



<p>Client: Little Lake City School District</p>	<p>Project #: 14-Z0187-0003</p>	<p>Info: Site Plan of Buildings to be Modernized</p>
<p>Site: Lake Center Middle School - Site Plan 10503 South Pioneer Blvd.</p> <p>Address: Santa Fe Springs, California 90670</p> <p><small>Drawing Not to Scale - © 2012</small></p>		<p>EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED</p>

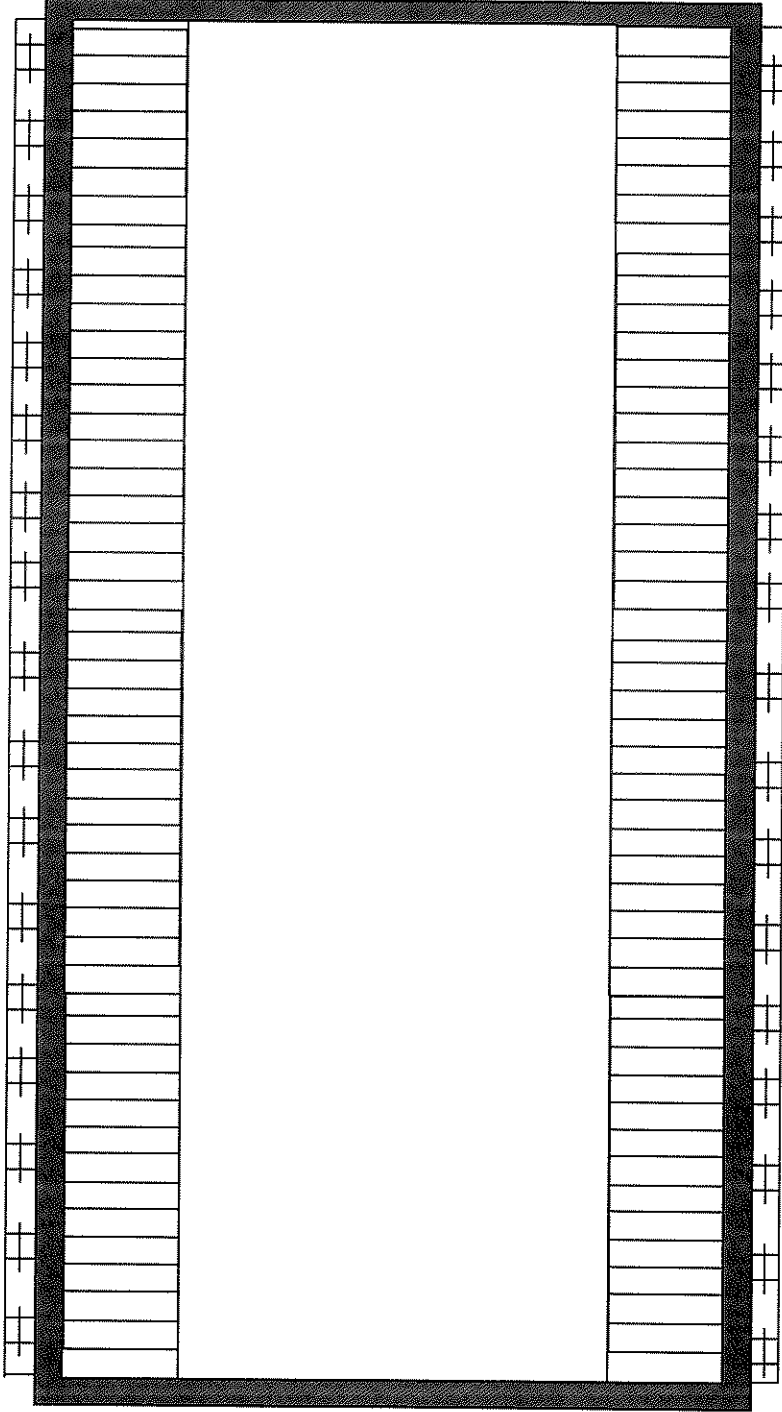
Administrative Building



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Administration Bldg. 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670

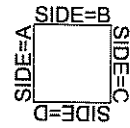
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Administrative Building - Exterior



 - Overhang Wood Ceiling & Covered Walkway

 - Metal Gutter
  - Wood Fascia



Client: Little Lake City School District **Project #:** 14-Z0187-0003

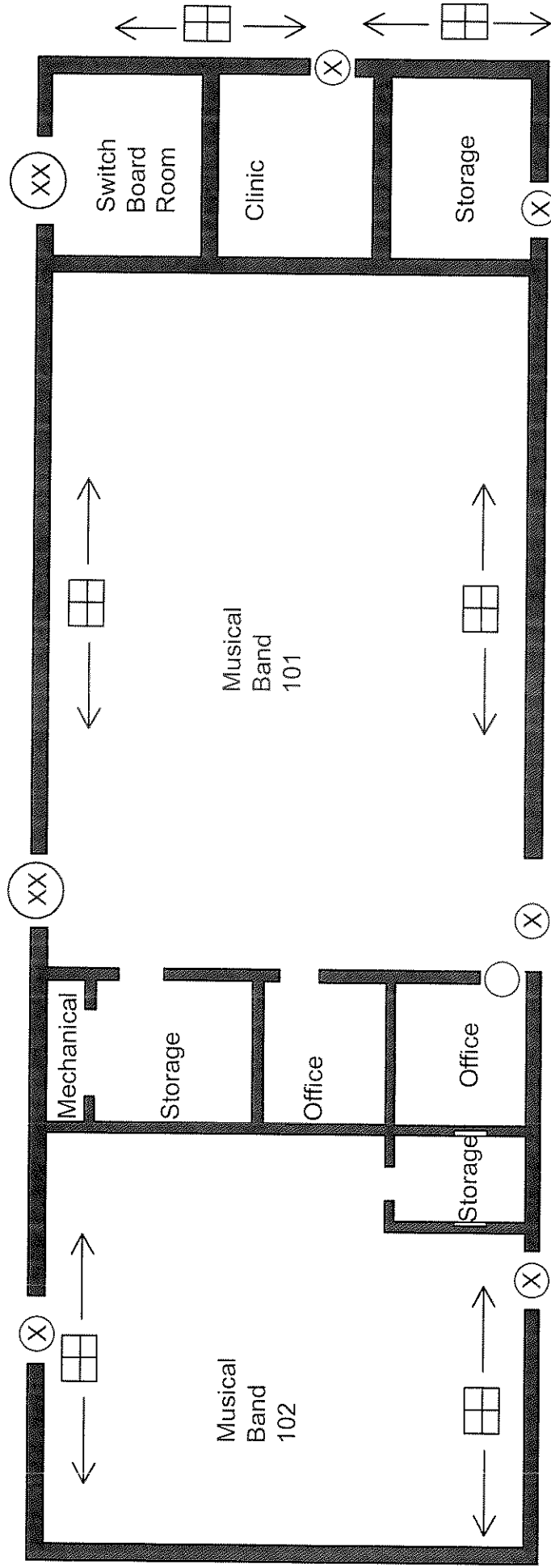
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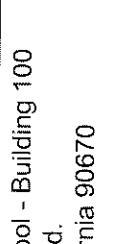
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Lake Center Middle School - Administration Bldg.
10503 South Pioneer Blvd.
Address: Santa Fe Springs, California 90670

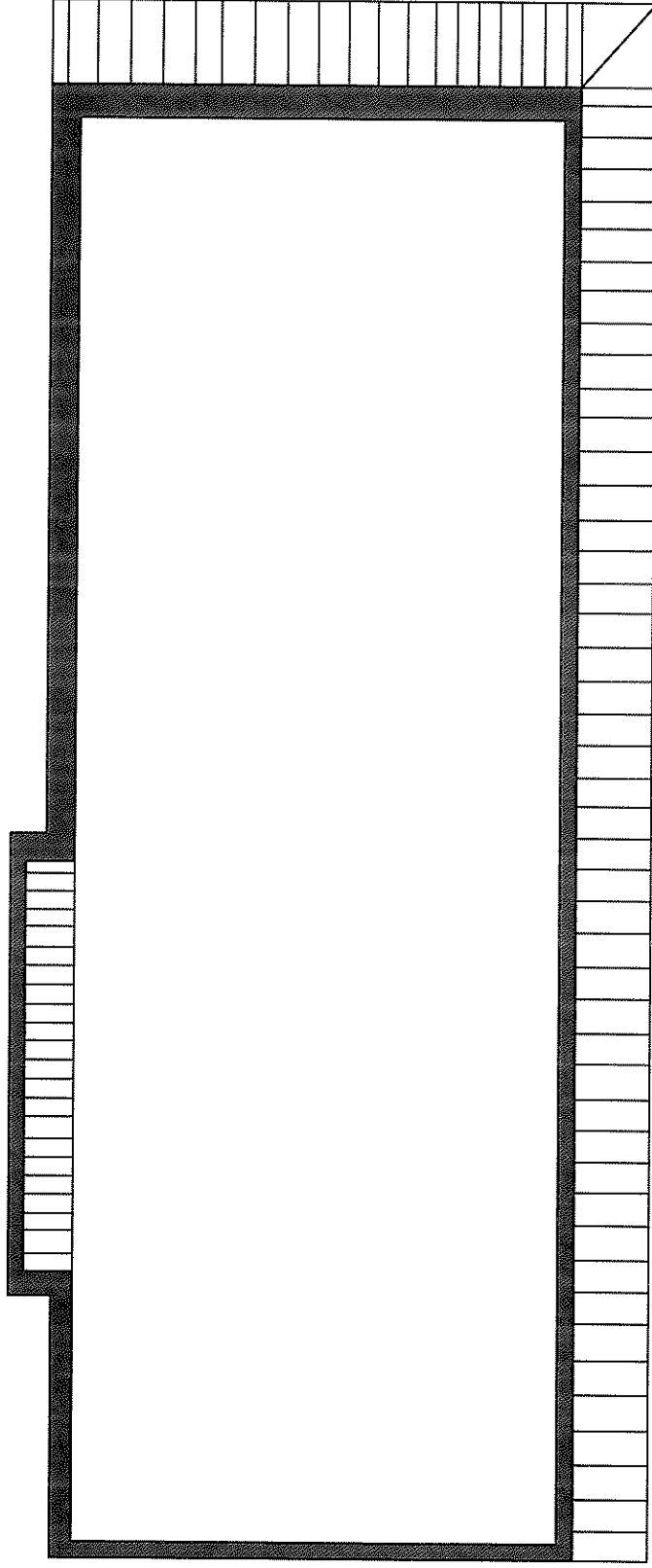
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Building 100



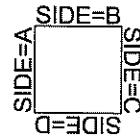
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 100 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
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Building 100 - Exterior



■ - Wood Fascia

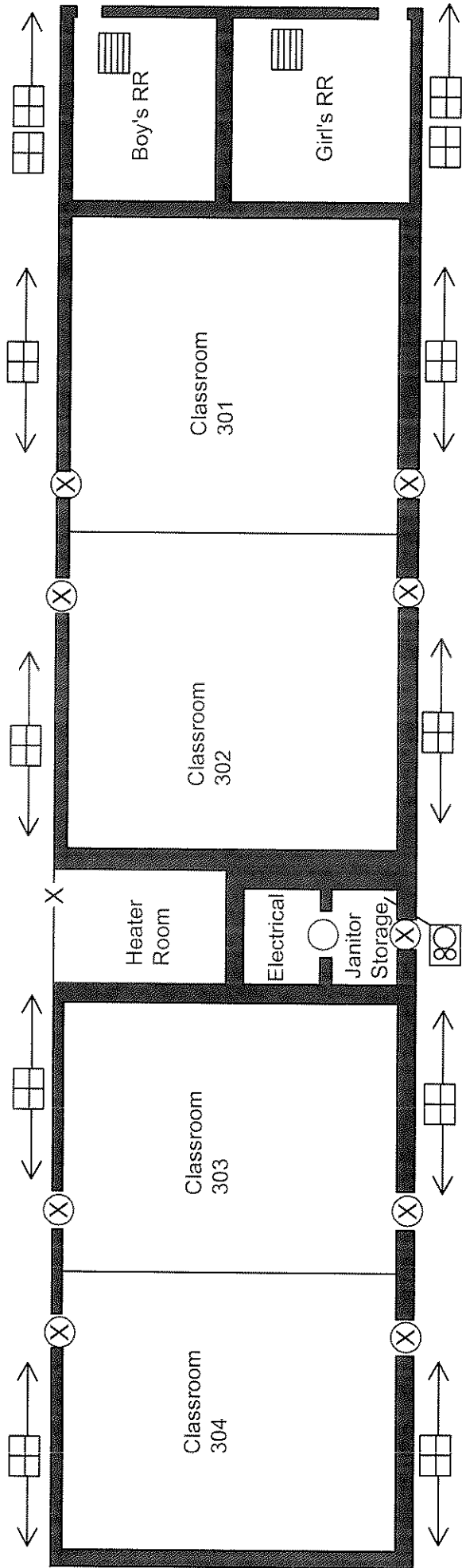
||||| - Overhang Wood Ceiling, Wood Beam & Covered Walkway



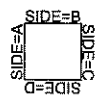
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 100 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

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Building 300

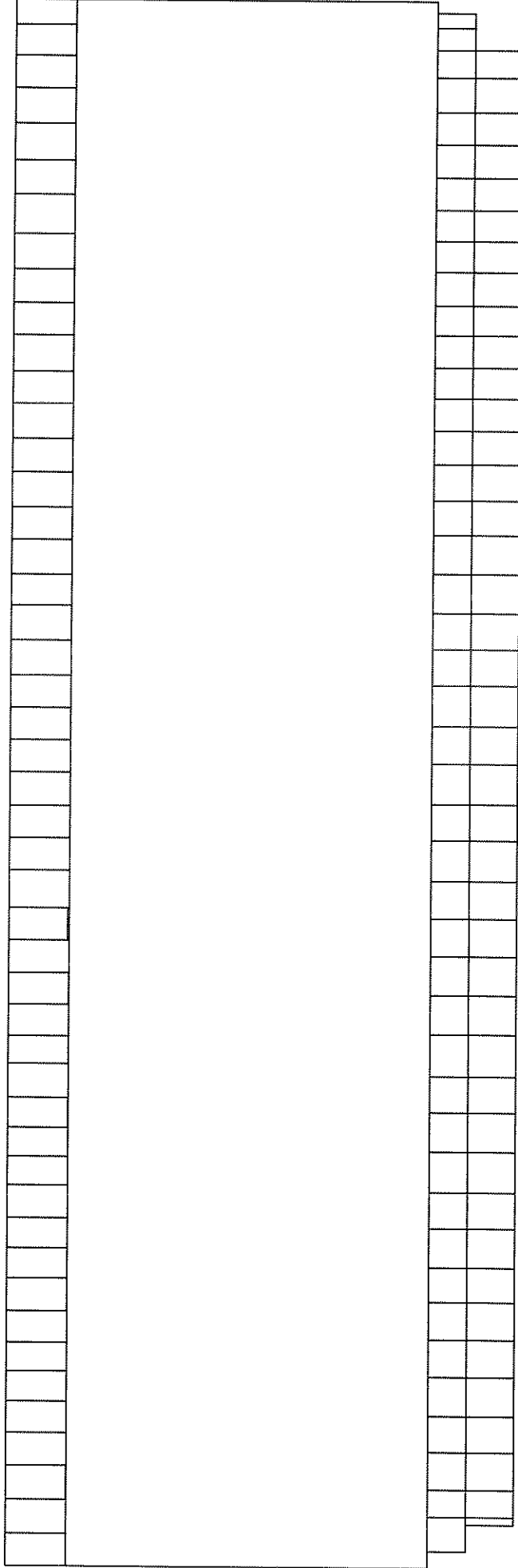


- - Wood Door Frame
- - Wood And Brick Walls
- 8 - Lead Coated Sink
- X - Wood Door
- ▤ - Dry Wall Ceiling
- ▣ - Wood Window Frames/Metal Sash




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 300 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670 <small>Drawing Not to Scale - © 2012</small>

Building 300 - Exterior

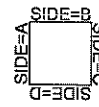
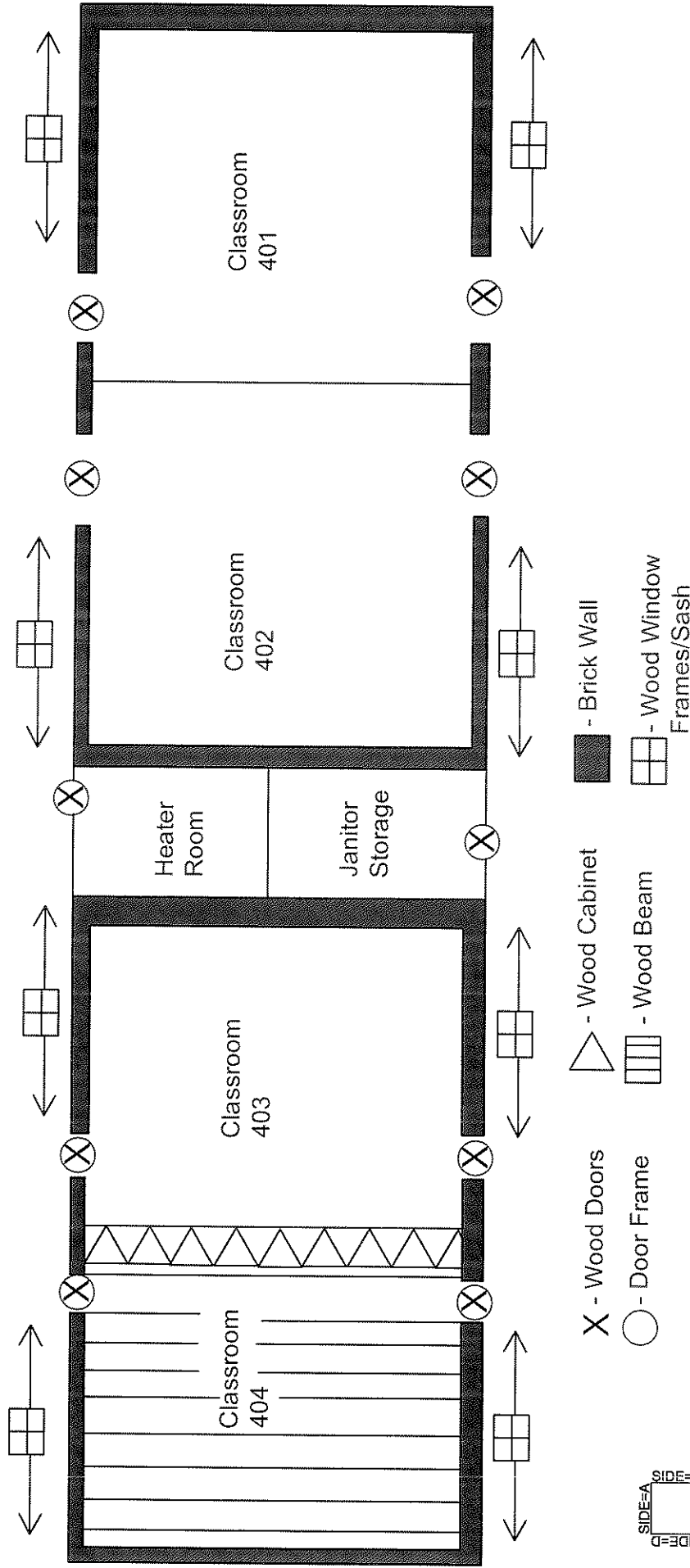


□□□ - Wood Over Hang Ceiling & Covered Walkway




Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 300 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Building 400

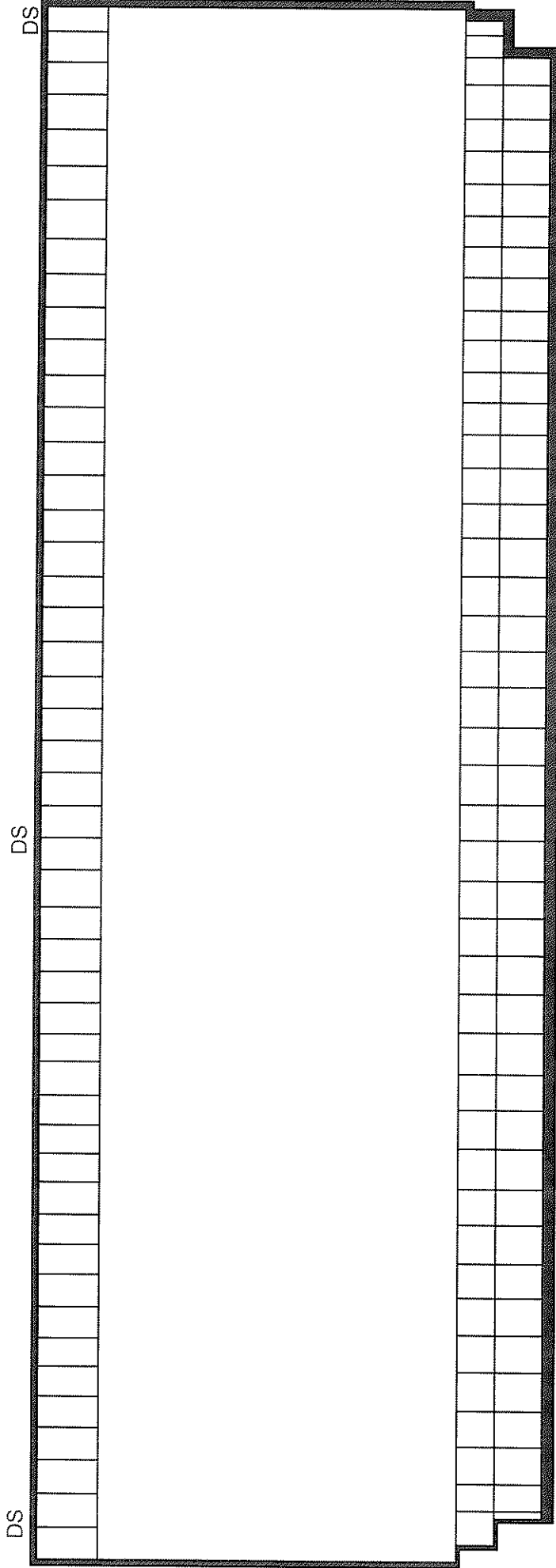


- X - Wood Doors
- O - Door Frame
- △ - Wood Cabinet
- - Wood Beam
- - Brick Wall
- ☐ - Wood Window Frames/Sash

Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 400 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012


Building 400 - Exterior



SIDE=A
SIDE=B
SIDE=C
SIDE=D

-  - Wood Over Hang Ceiling & Covered Walkway
-  - Wood Window Frames
- DS - Downspout



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 400 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670


Drawing Not to Scale - © 2012

Building 500

Classroom 504	Classroom 503	Heater Room	Classroom 502	Classroom 501	Boy's RR
		Janitor Storage			Girl's RR

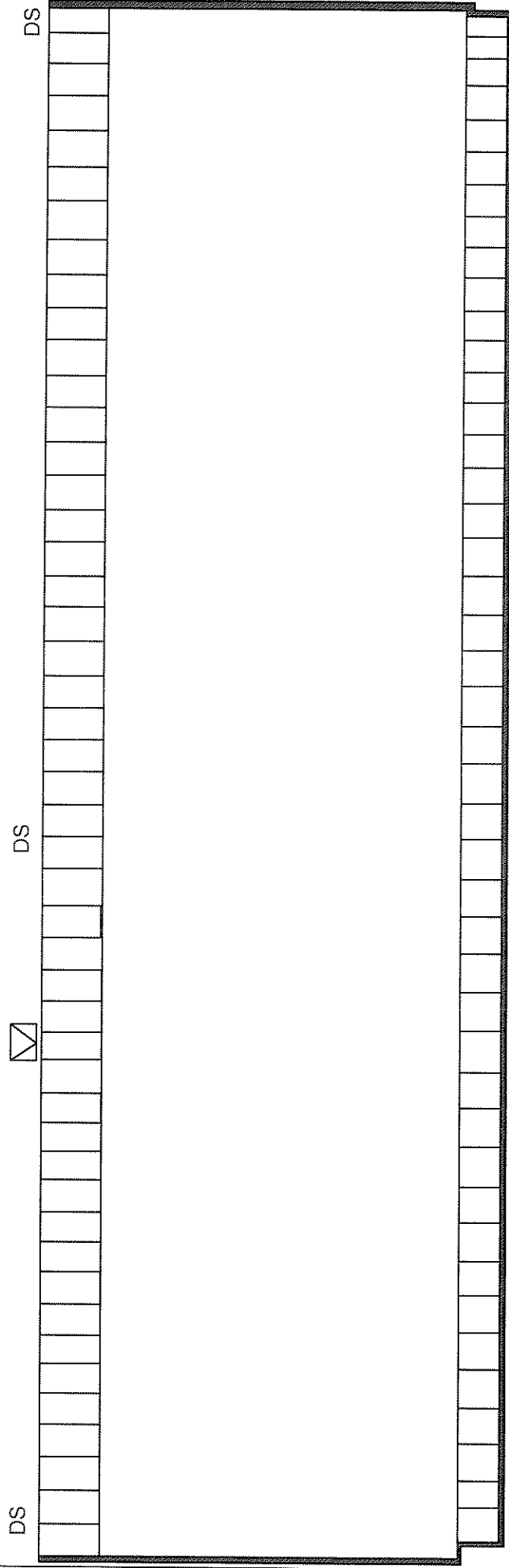
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





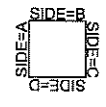
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		Site: Lake Center Middle School - Building 500 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670


Drawing Not to Scale - © 2012

Building 500 - Exterior



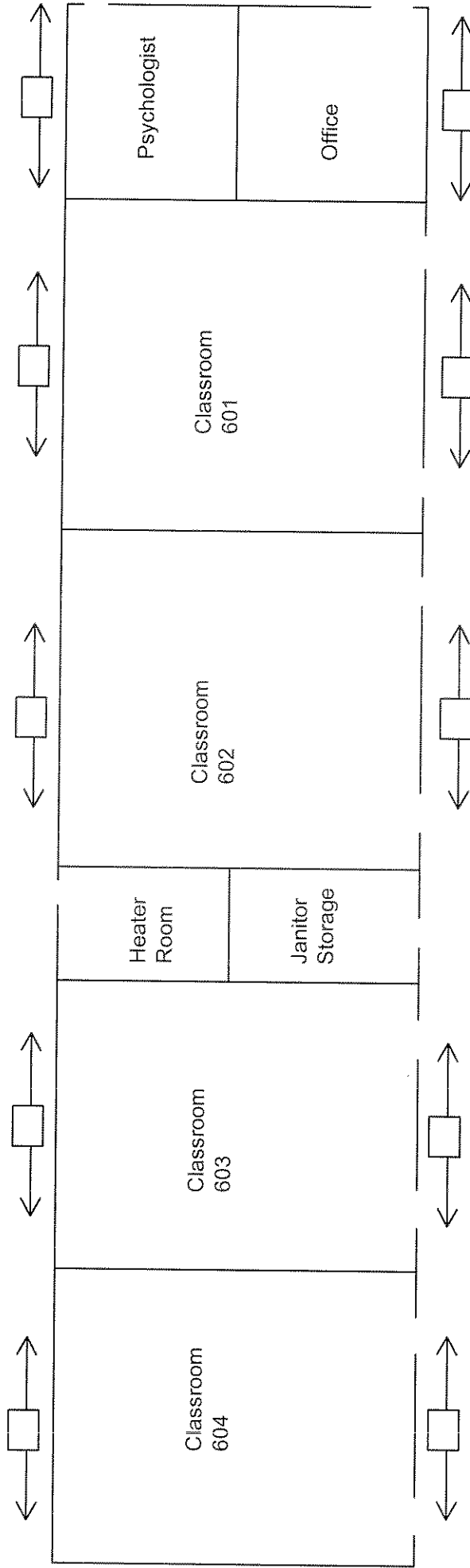
-  - Metal Wall Vent
-  - Wood Over Hang Ceiling & Covered Walkway
-  - Downspout
-  - Fascia



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
 <p style="font-weight: bold; font-size: 1.2em;">EXECUTIVE ENVIRONMENTAL</p> <p style="font-weight: bold; font-size: 0.8em;">HEALTH & SAFETY SIMPLIFIED</p>		Site: Lake Center Middle School - Building 500 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

Building 600



□ - Wood Window Frames



Client: Little Lake City School District

Project #: 14-Z0187-0003

Info: Lead-Containing Materials Identified

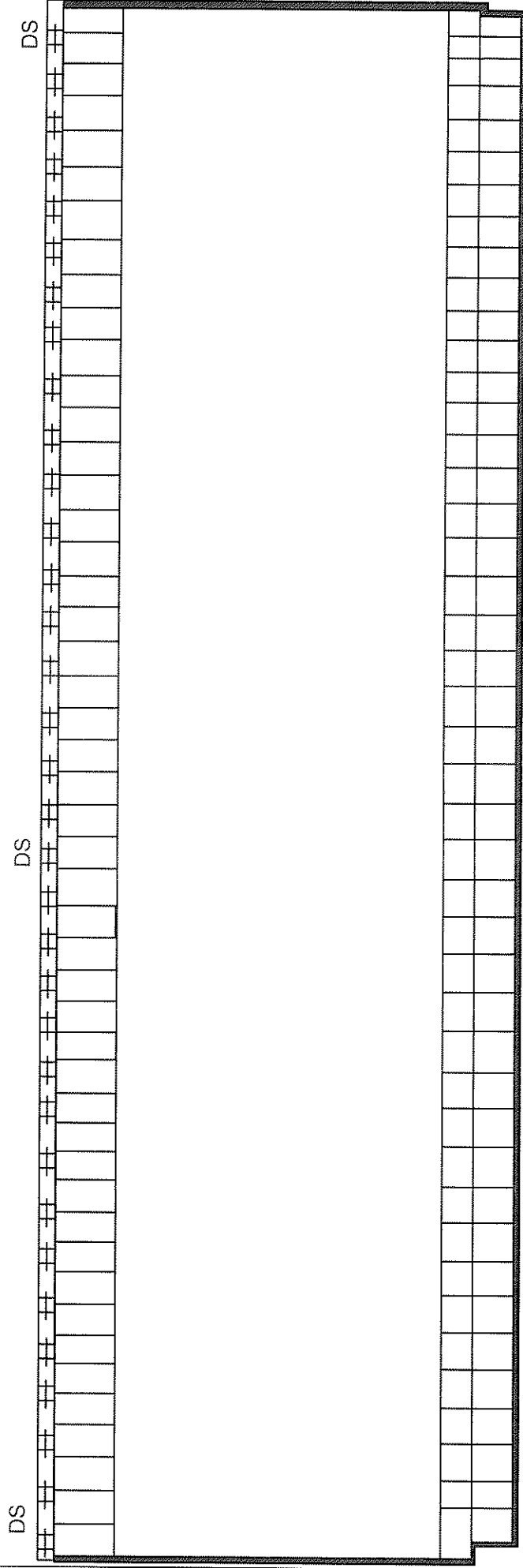


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

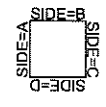
Site: Lake Center Middle School - Building 600
Address: 10503 South Pioneer Blvd.
Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

Building 600 - Exterior



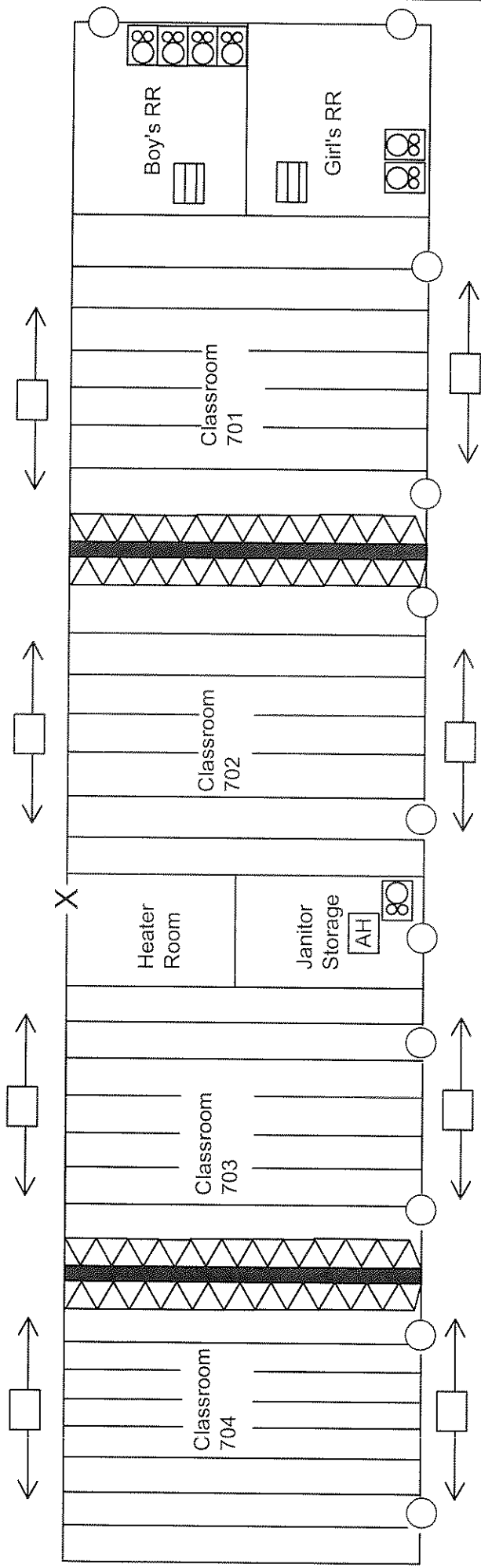
- ++ - Metal Gutter
- DS - Downspout
- Wood Over Hang Ceiling & Covered Walkway
- Fascia



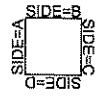
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Building 600 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

Building 700



- Wood Cabinet
- Wood Ceiling
- Wood Door
- Wood Door Frame
- Metal, Lead Coated Sink & Porcelain Sink
- Wood Beam
- Wood Walls
- Wood Window Frames
- Attic Hatch



Client: Little Lake City School District **Project #:** 14-Z0187-0003 **Info:** Lead-Containing Materials Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Lake Center Middle School - Building 700
10503 South Pioneer Blvd.
Address: Santa Fe Springs, California 90670

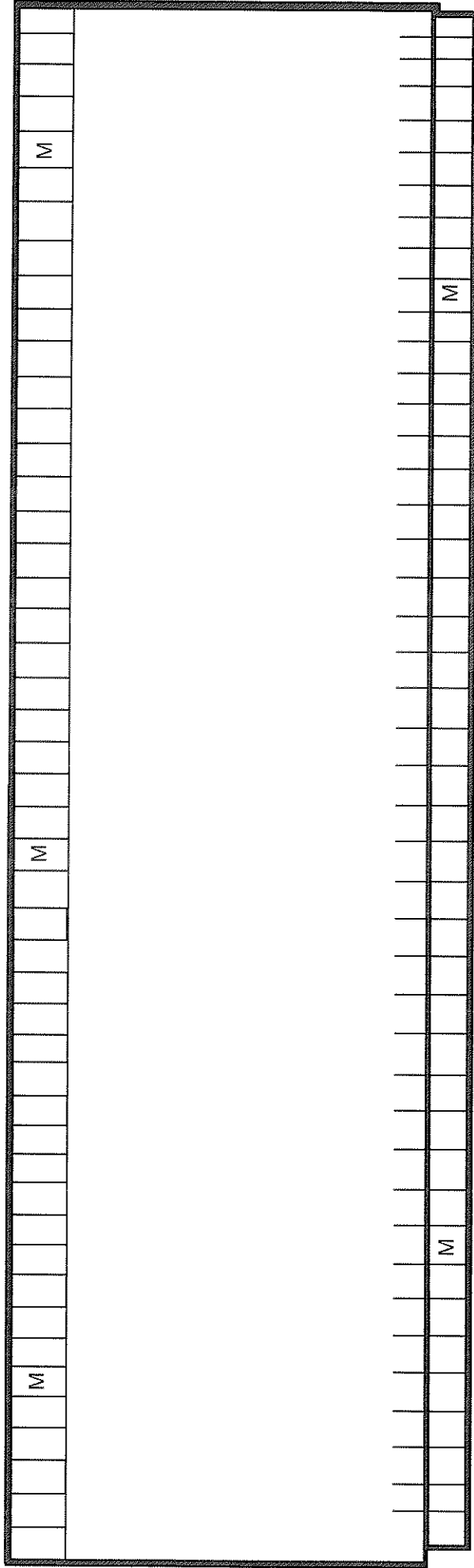
Drawing Not to Scale - © 2012

Building 700 - Exterior

DS

DS


DS



M - Metal Conduit

DS - Downspout

 - Wood Over Hang Ceiling & Covered Walkway

 - Wood Fascia



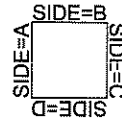
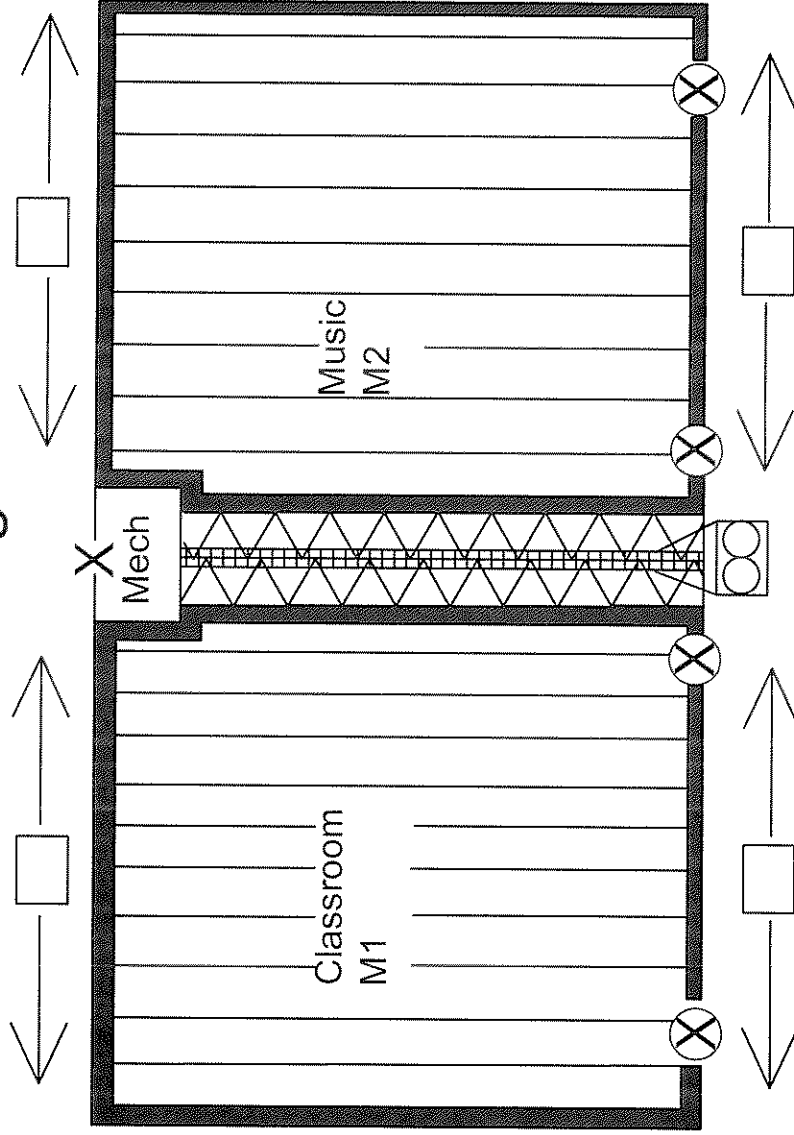
Client: Little Lake City School District **Project #:** 14-Z0187-0003 **Info:** Lead-Containing Materials Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Lake Center Middle School - Building 700
Address: 10503 South Pioneer Blvd.
Santa Fe Springs, California 90670

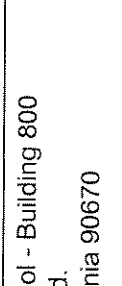
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Building 800

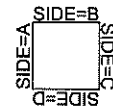
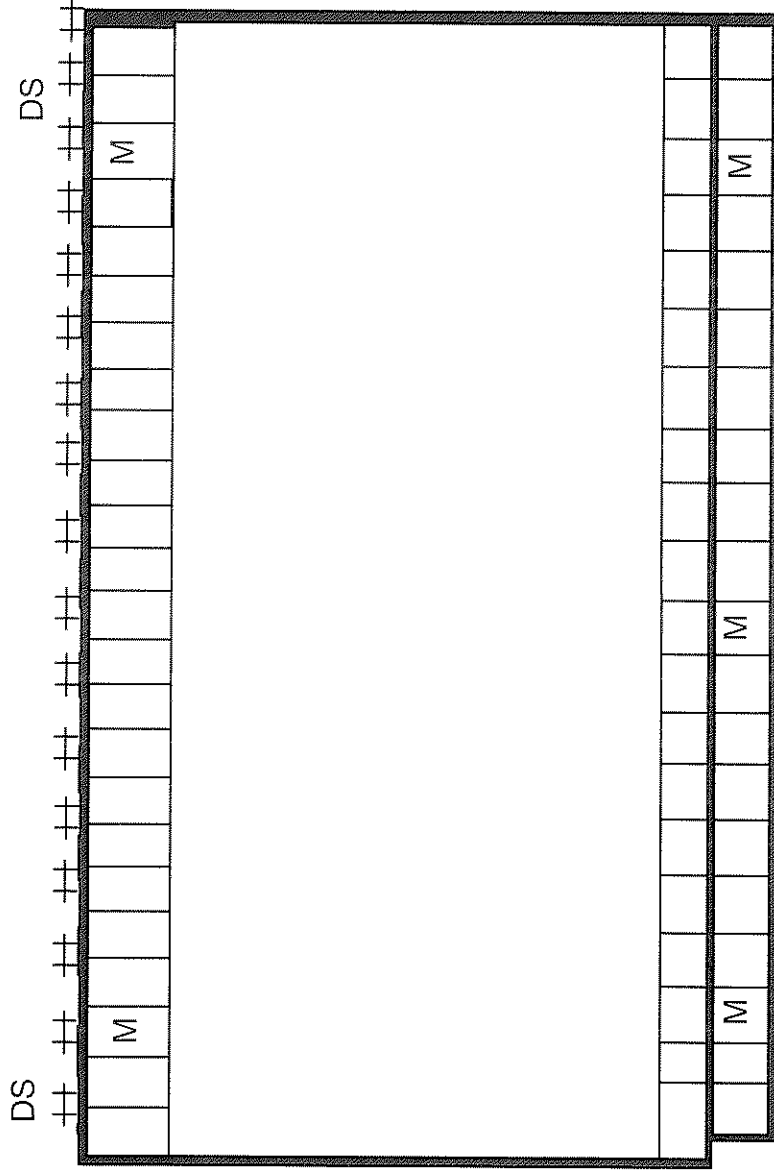


- X - Wood Door
- - Wood Door Frame
- (with two circles) - Wood Soffit
- ▬ (thick) - Wood Baseboard
- ▬ (grid) - Wood Beam
- ▬ (brick) - Wood Wall
- △ - Wood Cabinet
- (with two circles) - Wood Window Frame



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 800 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		

Building 800 - Exterior

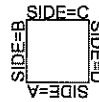
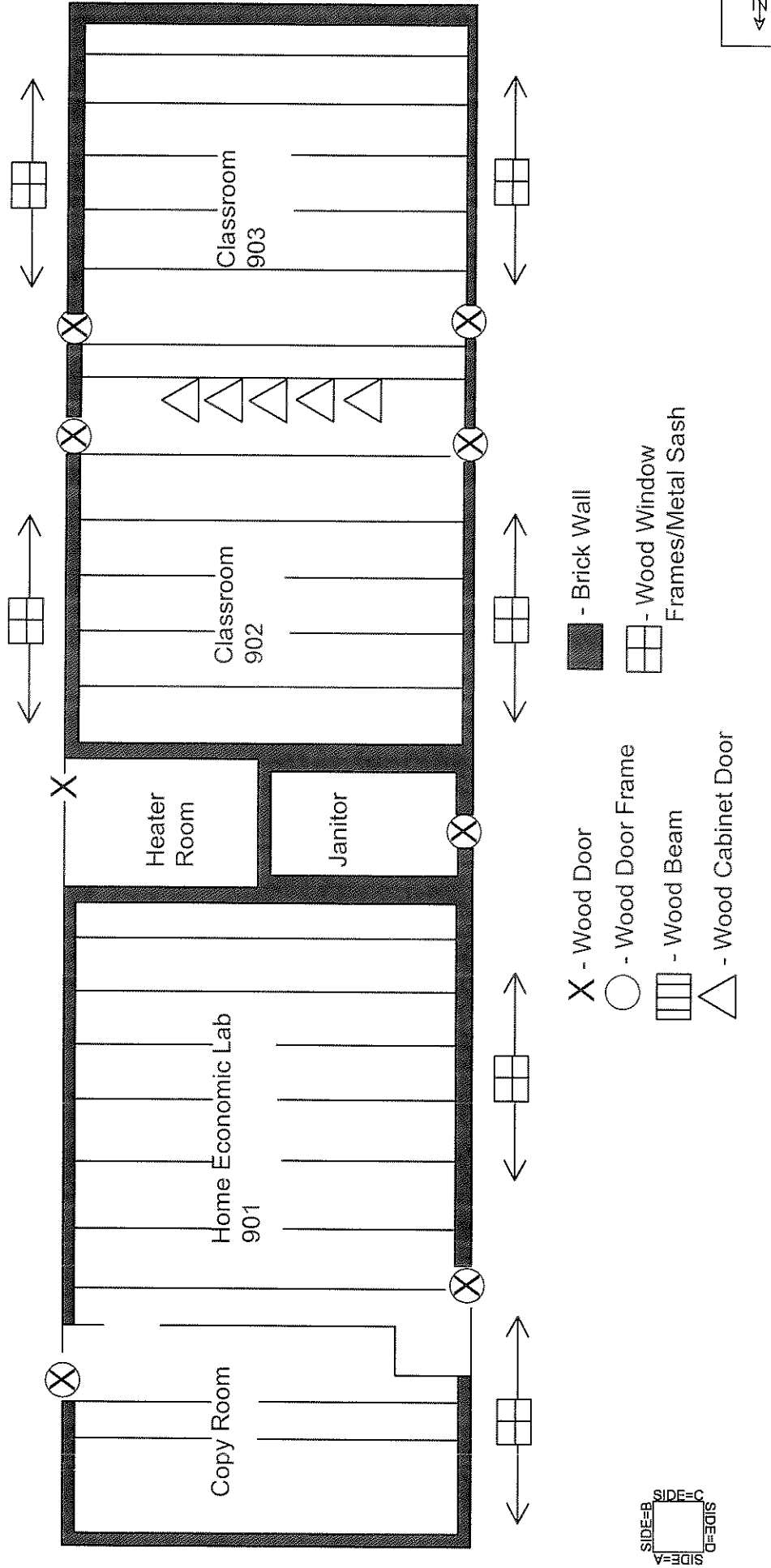


- M - Metal Conduit
- DS - Metal Downspout
- Wood Over Hang Ceiling & Covered Walkway
- Wood Fascia
- Metal Gutter



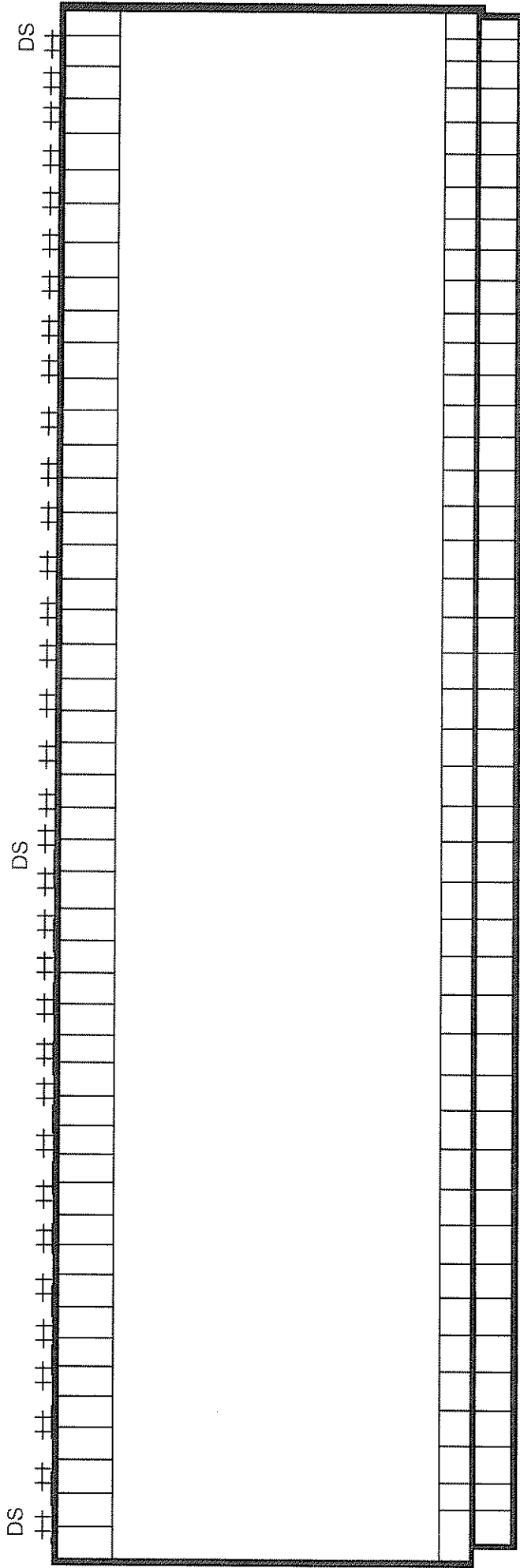
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 800 Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
		Drawing Not to Scale - © 2012



Building 900

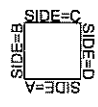



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified
		Site: Lake Center Middle School - Building 900 10503 South Pioneer Blvd. Address: Santa Fe Springs, California 90670
Drawing Not to Scale - © 2012		

Building 900 - Exterior

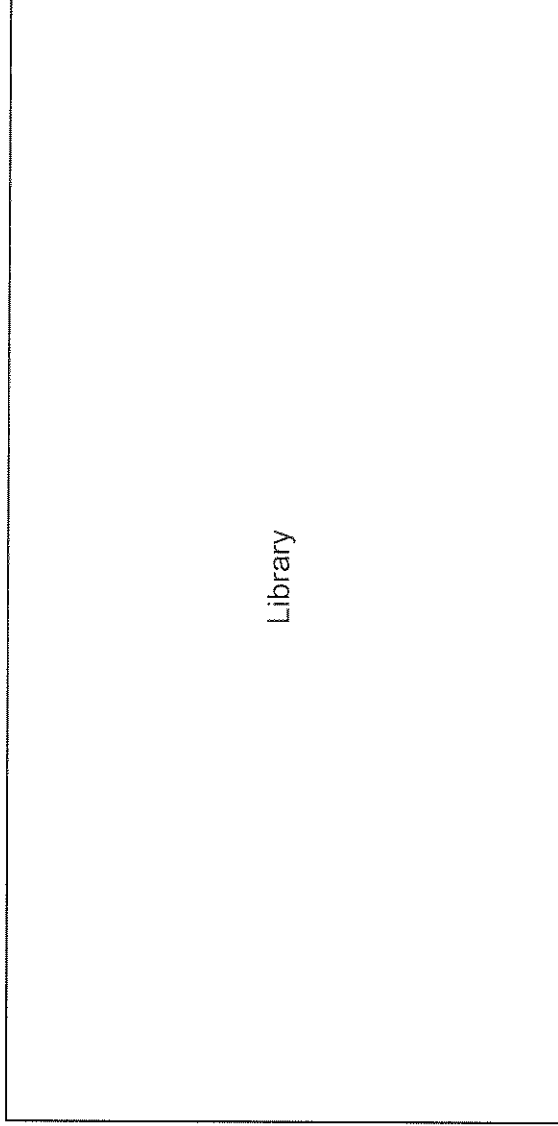


- ++ - Metal Gutter
- DS - Downspout
-  - Wood Over Hang Ceiling & Covered Walkway
-  - Wood Fascia

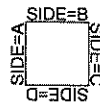


Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: Lead-Containing Materials Identified	
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Building 900 10503 South Pioneer Blvd.	Address: Santa Fe Springs, California 90670
Drawing Not to Scale - © 2012			

Library Building




Library



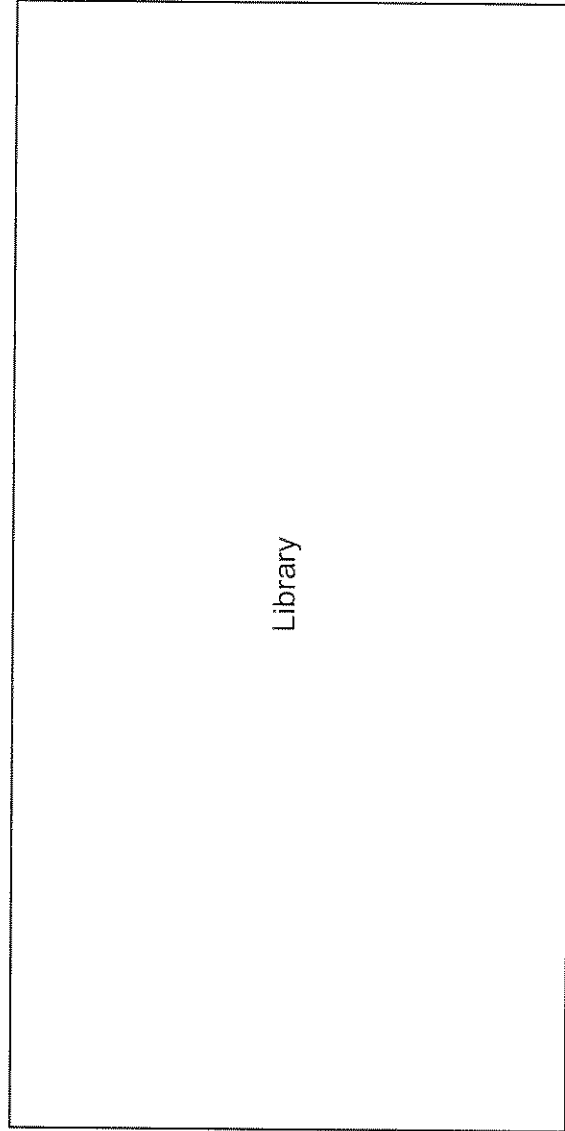
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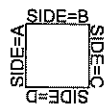
Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: No Lead-Containing Materials Identified
 EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		Site: Lake Center Middle School - Library Building Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670

Drawing Not to Scale - © 2012

Library Building - Exterior




Library



No Lead Containing Materials Identified



Client: Little Lake City School District	Project #: 14-Z0187-0003	Info: No Lead-Containing Materials Identified
		Site: Lake Center Middle School - Library Building Address: 10503 South Pioneer Blvd. Santa Fe Springs, California 90670
<small>Drawing Not to Scale - © 2012</small>		

APPENDIX C – LEAD HAZARD EVALUATION REPORT

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 01/02/14 - 01/08/14

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

Lead Inspection Risk assessment Clearance Inspection Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)] 10503 S. Pioneer Blvd.		City Santa Fe Springs	County Los Angeles	Zip Code 90670
Construction date (year) of structure	Type of structure <input type="checkbox"/> Multi-unit building <input checked="" type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 — Owner of Structure (if business/agency, list contact person)

Name Little Lake City School District (John Shook)		Telephone number (562) 868-8241		
Address [number, street, apartment (if applicable)] 10515 S. Pioneer Blvd.		City Santa Fe Springs	State CA	Zip Code 90670

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

No lead-based paint detected Intact lead-based paint detected Deteriorated lead-based paint detected
 No lead hazards detected Lead-contaminated dust found Lead-contaminated soil found Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name George Valverde		Telephone number (626) 441-7050		
Address [number, street, apartment (if applicable)] 310 E. Foothill Blvd.		City Arcadia	State CA	Zip Code 91006
CDPH certification number 24605	Signature 			Date 01/08/14

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
 Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
 California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656

APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A, and XLi 303A.

XLp 300A, XLp 301A, XLp 302A, and XLp 303A.

XLi 700A, XLi 701A, XLi 702A, and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to greater than the Retest Tolerance Limit a second time, then the inspection should be consider deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges of thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX E – EE’S REPORT NO. 11-Z0187-0187, DATED AUGUST 02, 2012



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LEAD-CONTAINING PAINT/CERAMIC TILE PAINT INSPECTION REPORT

Conducted at:

LAKE CENTER MIDDLE SCHOOL
200 BUILDING
10503 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared for:


MR. JOHN SHOOK
DIRECTOR OF FACILITIES, MAINTENANCE AND OPERATIONS
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 12-Z0187-0187
August 2, 2012

Report generated/reviewed by:


Yepenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:

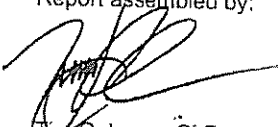

Yepenia G. Galeana, CLP
Senior Project Manager
Executive Environmental

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- II. SAMPLING PROTOCOL
- III. SAMPLING METHODOLOGY
- IV. SAMPLE ANALYSIS
- V. CONCLUSIONS/RECOMMENDATIONS
- VI. DISCLAIMER/REPORT LIMITATIONS

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- APPENDIX A – XRF SUMMARY RESULTS
- APPENDIX B – SITE DRAWING
- APPENDIX C – LEAD HAZARD EVALUATION REPORT
- APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

LEAD-CONTAINING PAINT/CERAMIC TILE INSPECTION

Project Number: EE 12-Z0187-0187

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Lake Center Middle School
200 Building
10503 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Use: School Property

Contact Person: Mr. John Shook
Director of Facilities, Maintenance and Operations
Phone: (562) 868-8241, ext. 247

Inspection Date: July 23, 2012

Inspected By: Mr. Rhys Kuzmic
Certified Lead Professional, DHS # 18093

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Lead Professional, DHS # 3732

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Lead Professional (CLP) to conduct a lead-containing paint/ceramic tile inspection of the interior and exterior surfaces of the 200 Building at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California. EE provided a Department of Health Services Certified Lead Inspector to conduct the inspection. Lead-based paint and lead-containing glaze were detected during this inspection. EE's CLP conducted these services on July 23, 2012.

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of at least 1.0 mg/cm² (milligrams per centimeter squared) by XRF, or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program, established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm² via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm² action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction, Code of Federal Regulations, Title 29, Section 1926 (abbreviated as 29 CFR 1926). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the interior and exterior surfaces of the 200 Building was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being lead-containing paint or ceramic tile. After identifying the materials suspected of containing lead paint or ceramic tile, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g., classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm²). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Niton Corporation.

The following specifications apply to the Niton XRF:

- Ability to report both the K and L shell line x-ray emission energies simultaneously and report the lead concentration in mg/cm².
- Accuracy for a single reading on all building materials within 0.2 mg/cm², at 95 percent confidence, at 0 to 1 mg/cm².
- Equipped with a 40 milli-curie (mCi) cadmium, 109-sealed, radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state, and federal standards, the following components that were analyzed with the Niton XRF instrument during this inspection are considered to be positive for lead content.

SAMPLE ANALYSIS DATA Lake Center Middle School 200 Building ^A 10503 South Pioneer Boulevard Santa Fe Springs, California 90670				
Area	Component	Substrate	Approx. Qty.	XRF Result Mg/cm ²
Men's restroom	Sink	Porcelain	2 EA	26.9
Rooms 201 through 204 interior	Windows components	Wood	16 EA	1.1-1.3
Exterior lower windows	Window sills	Wood	16 EA	1
Room 203, interior	Sink faucet and drinking fountain	Metal	1 EA	17.8

Note: This table must be used in conjunction with the entire report.

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a lead-containing paint/ceramic tile inspection of the interior and exterior surfaces of the 200 Building at Lake Center Middle School, located at 10503 South Pioneer Boulevard, Santa Fe Springs, California. The following conclusions and/or recommendations apply:

Lead-Containing Paint/Ceramic Tile Inspection

- Exterior and interior surfaces of the 200 Building were tested via the Niton XRF for the presence of lead.
- The components listed in the previous table were identified as being coated with a lead-based paint material or lead-containing ceramic glaze.
- The painted surfaces were observed to be in good condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

It is recommended that all renovation, remodeling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint be performed by properly trained and qualified personnel.

^A Building 200: rooms 203 and 204 have bare metal sinks.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – XRF SUMMARY RESULTS

Little Lake City School District
Lake Center Middle School

Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error	PbK Error
1	07/23/12	Paint			Shutter calibrate					5.16	0	0.82	0
2	07/23/12	Paint			Calibrate				Positive	1	0.2	1	0.2
3	07/23/12	Paint			Calibrate				Positive	1.1	0.2	1.1	0.2
4	07/23/12	Paint			Calibrate				Positive	1.1	0.3	1.1	0.3
5	07/23/12	Paint	Building 200	Women's restroom	Door	Wood	A	Intact	Negative	0.19	0.09	0.19	0.09
6	07/23/12	Paint	Building 200	Women's restroom	Door frame	Wood	A	Intact	Negative	0.09	0.17	0.09	0.17
7	07/23/12	Paint	Building 200	Women's restroom	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02
8	07/23/12	Paint	Building 200	Women's restroom	Wall	Brick	B	Intact	Negative	0.02	0.03	0.02	0.03
9	07/23/12	Paint	Building 200	Women's restroom	Wall	Brick	D	Intact	Negative	0.02	0.03	0.02	0.03
10	07/23/12	Paint	Building 200	Women's restroom	Wall	Plaster	C	Intact	Negative	0.02	0.02	0.02	0.02
11	07/23/12	Paint	Building 200	Women's restroom	Ceiling	Plaster	Upper	Intact	Negative	0.01	0.02	0.01	0.02
12	07/23/12	Paint	Building 200	Women's restroom	Ceiling beam	Wood	Upper	Intact	Negative	0.18	0.36	0.18	0.36
13	07/23/12	Paint	Building 200	Women's restroom	Floor	Terrazzo	Lower	Intact	Negative	0	0.02	0	0.02
14	07/23/12	Paint	Building 200	Women's restroom	Wall	Terrazzo	A	Intact	Null	0	0.02	0	0.02
15	07/23/12	Paint	Building 200	Women's restroom	Wall	Terrazzo	A	Intact	Null	0	0.02	0	0.02
16	07/23/12	Paint	Building 200	Women's restroom	Wall	Terrazzo	A	Intact	Negative	0.01	0.02	0.01	0.02
17	07/23/12	Paint	Building 200	Women's restroom	Restroom stall	Metal	C	Intact	Negative	0.03	0.1	0.03	0.1

Little Lake City School District
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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
18	07/23/12	Paint	Building 200	Women's restroom	Restroom stall	Metal	C	Intact	Negative	0.02	0.05	0.02	0.05	-0.5	2.32
19	07/23/12	Paint	Building 200	Women's restroom	Sink	Porcelain	C	Intact	Negative	0.02	0.08	0.02	0.08	-0.09	2.37
20	07/23/12	Paint	Building 200	Women's restroom	Toilet	Porcelain	C	Intact	Negative	0.07	0.22	0.07	0.22	0.22	1.91
21	07/23/12	Paint	Building 200	Men's restroom	Toilet	Porcelain	C	Intact	Negative	0.09	0.3	0.09	0.3	0.14	2.4
22	07/23/12	Paint	Building 200	Men's restroom	Sink	Porcelain	A	Intact	Negative	0.03	0.12	0.03	0.12	0.18	1.88
23	07/23/12	Paint	Building 200	Men's restroom	Sink	Porcelain	A	Intact	Positive	26.9	14.2	6.6	2.9	26.9	14.2
24	07/23/12	Paint	Building 200	Men's restroom	Urinal	Porcelain	C	Intact	Negative	0.01	0.02	0.01	0.02	0.7	1.9
25	07/23/12	Paint	Building 200	Men's restroom	Wall	Plaster	A	Intact	Negative	0.04	0.05	0.04	0.05	-0.06	0.79
26	07/23/12	Paint	Building 200	Men's restroom	Ceiling	Plaster	Upper	Peeling	Negative	0	0.02	0	0.02	-0.34	1.43
27	07/23/12	Paint	Building 200	Men's restroom	Wall	Brick	B	Intact	Negative	0.01	0.03	0.01	0.03	-0.28	1.45
28	07/23/12	Paint	Building 200	Men's restroom	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	-0.05	0.8
29	07/23/12	Paint	Building 200	Men's restroom	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	0.24	0.73
30	07/23/12	Paint	Building 200	Men's restroom	Restroom stall	Metal	D	Intact	Negative	0.04	0.09	0.04	0.09	0	2.07
31	07/23/12	Paint	Building 200	Men's restroom	Door	Wood	B	Intact	Negative	0.1	0.12	0.1	0.12	-0.49	1.31
32	07/23/12	Paint	Building 200	Men's restroom	Door frame	Wood	B	Intact	Negative	0.02	0.05	0.02	0.05	0.21	1.15
33	07/23/12	Paint	Building 200	Room 204	Door frame	Wood	A	Intact	Negative	0.16	0.21	0.16	0.21	0.19	1.2
34	07/23/12	Paint	Building 200	Room 204	Door trim	Wood	A	Intact	Negative	0.15	0.16	0.15	0.16	0.23	1.03

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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC Error	PbC	PbL Error	PbL	PbK Error	PbK
35	07/23/12	Paint	Building 200	Room 204	Door	Wood	A	Intact	Negative	0.3	0.32	0.3	0.32	-0.29	1.05
36	07/23/12	Paint	Building 200	Room 204	Door	Wood	A	Intact	Negative	0.14	0.18	0.14	0.18	-0.15	1.25
37	07/23/12	Paint	Building 200	Room 204	Window casing	Wood	A	Intact	Negative	0.22	0.24	0.22	0.24	0.4	1.2
38	07/23/12	Paint	Building 200	Room 204	Window sill	Wood	A	Intact	Negative	0.22	0.36	0.22	0.36	-0.02	0.97
39	07/23/12	Paint	Building 200	Room 204	Window sill	Wood	A	Intact	Positive	1.1	0.4	0.9	0.2	1.1	0.4
40	07/23/12	Paint	Building 200	Room 204	Wall	Brick	A	Intact	Negative	0.03	0.03	0.03	0.03	-0.04	0.81
41	07/23/12	Paint	Building 200	Room 204	Wall	Brick	B	Intact	Negative	0.02	0.04	0.02	0.04	0.01	0.78
42	07/23/12	Paint	Building 200	Room 204	Wall	Brick	C	Intact	Negative	0.03	0.04	0.03	0.04	0.4	0.8
43	07/23/12	Paint	Building 200	Room 204	Cabinet	Wood	D	Intact	Negative	0.13	0.21	0.13	0.21	-0.04	1.35
44	07/23/12	Paint	Building 200	Room 204	Cabinet	Wood	D	Intact	Negative	0.13	0.21	0.13	0.21	-0.03	1.06
45	07/23/12	Paint	Building 200	Room 204	Cabinet	Wood	D	Intact	Negative	0.03	0.07	0.03	0.07	-0.16	1.28
46	07/23/12	Paint	Building 200	Room 203	Window	Metal	C	Intact	Negative	0.1	0.14	0.1	0.14	-0.61	2.9
47	07/23/12	Paint	Building 200	Room 203	Window casing	Wood	C	Intact	Negative	0.22	0.22	0.22	0.22	0.7	1.3
48	07/23/12	Paint	Building 200	Room 203	Cabinet	Wood	C	Intact	Negative	0.02	0.03	0.02	0.03	-0.11	1.15
49	07/23/12	Paint	Building 200	Room 203	Cabinet	Wood	D	Intact	Negative	0.01	0.03	0.01	0.03	0.3	0.82
50	07/23/12	Paint	Building 200	Room 203	Cabinet	Wood	B	Intact	Negative	0.14	0.14	0.14	0.14	0.05	1.24
51	07/23/12	Paint	Building 200	Room 203	Window frame	Metal	A	Intact	Negative	0.16	0.24	0.16	0.24	0.05	1.84

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Reading No	Date	Type	Misc-1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
52	07/23/12	Paint	Building 200	Room 203	Window casing	Wood	A	Intact	Negative	0.19	0.23	0.19	0.23	0.5	1.1
53	07/23/12	Paint	Building 200	Room 203	Window sill	Wood	A	Intact	Positive	1.3	0.5	1.3	0.5	1	1
54	07/23/12	Paint	Building 200	Room 203, storage	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.4	0.7
55	07/23/12	Paint	Building 200	Room 203, storage	Wall	Brick	D	Intact	Null	0.01	0.02	0.01	0.02	0.6	0.6
56	07/23/12	Paint	Building 200	Room 203, storage	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	-0.03	0.8
57	07/23/12	Paint	Building 200	Room 203, storage	Wall	Plaster	B	Intact	Negative	0.02	0.04	0.02	0.04	0.24	0.7
58	07/23/12	Paint	Building 200	Room 203, storage	Ceiling	Plaster	Upper	Intact	Negative	0	0.02	0	0.02	0.23	0.62
59	07/23/12	Paint	Building 200	Room 203, storage	Conduit	Metal	D	Intact	Negative	0.09	0.25	0.09	0.25	0.3	2.34
60	07/23/12	Paint	Building 200	Room 203, storage	Conduit	Metal	D	Intact	Negative	0.15	0.37	0.15	0.37	0.27	2.9
61	07/23/12	Paint	Building 200	Room 203, storage	Electrical box	Metal	D	Intact	Negative	0.07	0.12	0.07	0.12	-0.05	2.71
62	07/23/12	Paint	Building 200	Room 203, storage	Shelf	Wood	D	Intact	Negative	0	0.02	0	0.02	0.4	0.9
63	07/23/12	Paint	Building 200	Room 203, storage	Plenum access	Metal	Upper	Intact	Negative	0	0.02	0	0.02	-0.1	1.09
64	07/23/12	Paint	Building 200	Room 203, storage	Door frame	Metal	B	Intact	Negative	0.01	0.04	0.01	0.04	-0.74	2.01
65	07/23/12	Paint	Building 200	Room 203, storage	Door frame	Wood	D	Intact	Negative	0.02	0.04	0.02	0.04	0.5	1.3
66	07/23/12	Paint	Building 200	Room 202	Door frame	Wood	A	Intact	Negative	0.17	0.23	0.17	0.23	0.5	1.2
67	07/23/12	Paint	Building 200	Room 202	Door	Wood	A	Intact	Negative	0.1	0.13	0.1	0.13	0	1.18
68	07/23/12	Paint	Building 200	Room 202	Door frame	Wood	A	Intact	Negative	0.01	0.02	0.01	0.02	0.4	1.1

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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
69	07/23/12	Paint	Building 200	Room 202	Door frame	Wood	D	Intact	Negative	0.02	0.06	0.02	0.06	0.1	0.98
70	07/23/12	Paint	Building 200	Room 202	Cabinet	Wood	D	Intact	Negative	0.12	0.17	0.12	0.17	0.04	1.05
71	07/23/12	Paint	Building 200	Room 202	Wall	Wood	D	Intact	Negative	0.03	0.08	0.03	0.08	-0.09	0.89
72	07/23/12	Paint	Building 200	Room 202	Window frame	Wood	D	Intact	Negative	0.01	0.02	0.01	0.02	0.28	1.02
73	07/23/12	Paint	Building 200	Room 202	Door frame	Wood	A	Intact	Negative	0.3	0.37	0.3	0.37	-0.02	1.16
74	07/23/12	Paint	Building 200	Room 202	Door frame	Wood	A	Intact	Negative	0.18	0.19	0.18	0.19	0.5	1.2
75	07/23/12	Paint	Building 200	Room 202	Door	Wood	A	Intact	Negative	0.11	0.12	0.11	0.12	-0.4	1.2
76	07/23/12	Paint	Building 200	Room 202	Door	Wood	A	Intact	Negative	0.06	0.08	0.06	0.08	0.08	1.05
77	07/23/12	Paint	Building 200	Room 202, office	Door frame	Wood	A	Intact	Negative	0.01	0.02	0.01	0.02	-0.54	1.19
78	07/23/12	Paint	Building 200	Room 202, office	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	0.4	2.2
79	07/23/12	Paint	Building 200	Room 202, office	Wall	Wood	B	Intact	Negative	0.03	0.07	0.03	0.07	-0.33	1.1
80	07/23/12	Paint	Building 200	Room 202, office	Wall	Wood	A	Intact	Negative	0.01	0.05	0.01	0.05	-0.02	1.09
81	07/23/12	Paint	Building 200	Room 202, office	Baseboard	Wood	A	Intact	Negative	0	0.02	0	0.02	0.3	0.81
82	07/23/12	Paint	Building 200	Room 202, office	Baseboard	Wood	B	Intact	Negative	0	0.02	0	0.02	0.21	0.65
83	07/23/12	Paint	Building 200	Room 202, office	Baseboard	Wood	C	Intact	Negative	0.4	0.3	0.4	0.3	0.4	0.8
84	07/23/12	Paint	Building 200	Room 202, office	Baseboard	Wood	D	Intact	Negative	0.16	0.14	0.16	0.14	0.7	1.2
85	07/23/12	Paint	Building 200	Room 201	Door	Wood	A	Intact	Negative	0.3	0.21	0.3	0.21	0.28	0.81

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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
86	07/23/12	Paint	Building 200	Room 201	Door frame	Wood	A	Intact	Negative	0.16	0.18	0.16	0.18	0.5	0.9
87	07/23/12	Paint	Building 200	Room 201	Door frame	Wood	B	Intact	Negative	0.01	0.03	0.01	0.03	-0.05	1.01
88	07/23/12	Paint	Building 200	Room 201	Window frame	Wood	B	Intact	Negative	0	0.02	0	0.02	-0.01	1
89	07/23/12	Paint	Building 200	Room 201	Window sill	Wood	B	Intact	Negative	0.06	0.19	0.06	0.19	0.3	0.88
90	07/23/12	Paint	Building 200	Exterior	Window sill	Wood	A	Intact	Negative	0.4	0.3	0.4	0.3	0.6	0.6
91	07/23/12	Paint	Building 200	Exterior	Window casing	Wood	A	Intact	Negative	0.18	0.34	0.18	0.34	0.4	1.1
92	07/23/12	Paint	Building 200	Exterior	Window frame	Wood	A	Intact	Negative	0	0.02	0	0.02	0.3	0.81
93	07/23/12	Paint	Building 200	Exterior	Door	Wood	A	Intact	Negative	0.22	0.25	0.22	0.25	0.15	0.92
94	07/23/12	Paint	Building 200	Exterior	Door frame	Wood	A	Intact	Negative	0.17	0.28	0.17	0.28	0.4	0.9
95	07/23/12	Paint	Building 200	Exterior	Door trim	Wood	A	Intact	Negative	0.15	0.12	0.15	0.12	0.5	0.5
96	07/23/12	Paint	Building 200	Exterior	Door trim	Wood	A	Intact	Negative	0.13	0.21	0.13	0.21	0.4	0.8
97	07/23/12	Paint	Building 200	Exterior	Door frame	Wood	A	Intact	Negative	0.04	0.1	0.04	0.1	-0.2	1.24
98	07/23/12	Paint	Building 200	Exterior	Door	Wood	A	Intact	Negative	0.11	0.15	0.11	0.15	-0.13	1.1
99	07/23/12	Paint	Building 200	Exterior	Window sill	Wood	A	Intact	Positive	1	0.2	1	0.2	0.9	0.3
100	07/23/12	Paint	Building 200	Exterior	Window frame	Wood	A	Intact	Negative	0	0.02	0	0.02	0.6	0.9
101	07/23/12	Paint	Building 200	Exterior	Window casing	Wood	A	Intact	Null	0.5	1.9	0.5	1.9	0.22	3.01
102	07/23/12	Paint	Building 200	Exterior	Window casing	Wood	A	Intact	Negative	0.11	0.17	0.11	0.17	0.5	1.1

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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
103	07/23/12	Paint	Building 200	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	0.28	0.75
104	07/23/12	Paint	Building 200	Exterior	Vent	Metal	A	Intact	Negative	0.08	0.08	0.08	0.08	-0.47	0.88
105	07/23/12	Paint	Building 200	Exterior	Vent	Metal	A	Intact	Negative	0.04	0.07	0.04	0.07	-0.12	1.85
106	07/23/12	Paint	Building 200	Exterior	Door	Wood	A	Intact	Negative	0.15	0.26	0.15	0.26	-0.23	1.02
107	07/23/12	Paint	Building 200	Exterior	Door frame	Wood	A	Intact	Negative	0.03	0.06	0.03	0.06	0.3	1.12
108	07/23/12	Paint	Building 200	Exterior	Overhang	Wood	A	Intact	Negative	0.3	0.25	0.3	0.25	0.7	0.9
109	07/23/12	Paint	Building 200	Exterior	Overhang beam	Wood	A	Intact	Negative	0.3	0.27	0.3	0.27	0.7	1.2
110	07/23/12	Paint	Building 200	Exterior	Fascia	Wood	A	Intact	Negative	0.4	0.3	0.4	0.3	0.4	0.4
111	07/23/12	Paint	Building 200	Exterior	Drip edge	Metal	A	Intact	Negative	0	0.02	0	0.02	0.07	2.08
112	07/23/12	Paint	Building 200	Exterior	Drip edge	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.31	1.73
113	07/23/12	Paint	Building 200	Exterior	Fascia	Wood	A	Intact	Negative	0.3	0.21	0.3	0.21	0.3	0.47
114	07/23/12	Paint	Building 200	Exterior	Window frame	Metal	A	Intact	Negative	0.02	0.04	0.02	0.04	-0.62	2.72
115	07/23/12	Paint	Building 200	Exterior	Window casing	Metal	A	Intact	Negative	0.06	0.1	0.06	0.1	0.12	2.17
116	07/23/12	Paint	Building 200	Exterior	Upper overhang	Stucco	A	Intact	Negative	0	0.02	0	0.02	0.8	0.7
117	07/23/12	Paint	Building 200	Exterior	Upper transom	Wood	A	Intact	Negative	0	0.02	0	0.02	0.05	0.83
118	07/23/12	Paint	Building 200	Exterior	Upper window frame	Wood	A	Intact	Negative	0.2	0.23	0.2	0.23	0.3	1.27
119	07/23/12	Paint	Building 200	Exterior	Upper window frame	Wood	A	Intact	Negative	0.13	0.24	0.13	0.24	0.19	1.19

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Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
120	07/23/12	Paint	Building 200	Exterior	Upper window casing	Wood	A	Intact	Negative	0.06	0.12	0.06	0.12	0.4	1.2
121	07/23/12	Paint	Building 200	Exterior	Upper window sill	Wood	A	Intact	Negative	0.16	0.29	0.16	0.29	-0.09	1.15
122	07/23/12	Paint	Building 200	Exterior	Upper window frame	Metal	A	Intact	Negative	0.03	0.08	0.03	0.08	0.6	2.3
123	07/23/12	Paint	Building 200	Exterior	Upper window frame	Metal	A	Intact	Negative	0.15	0.27	0.15	0.27	-0.24	2.02
124	07/23/12	Paint	Building 200	Exterior	Upper transom	Wood	A	Intact	Negative	0	0.02	0	0.02	0.5	1.1
125	07/23/12	Paint	Building 200	Exterior	Upper window flashing	Metal	A	Intact	Negative	0.22	0.49	0.22	0.49	0.6	1.8
126	07/23/12	Paint	Building 200	Exterior	Overhang	Metal	B	Intact	Negative	0	0.02	0	0.02	0.4	0.6
127	07/23/12	Paint	Building 200	Exterior	Overhang beam	Metal	B	Intact	Null	0.05	0.15	0.05	0.15	0.5	1.2
128	07/23/12	Paint	Building 200	Exterior	Overhang beam	Metal	B	Intact	Negative	0.01	0.02	0.01	0.02	0.11	0.69
129	07/23/12	Paint	Building 200	Exterior	Overhang pole	Metal	B	Intact	Negative	0.28	0.35	0.28	0.35	0.5	2
130	07/23/12	Paint	Building 200	Exterior	Door	Wood	B	Intact	Negative	0.13	0.17	0.13	0.17	0.4	1.1
131	07/23/12	Paint	Building 200	Exterior	Door frame	Wood	B	Intact	Negative	0.12	0.15	0.12	0.15	0.8	1
132	07/23/12	Paint	Building 200	Exterior	Door frame	Wood	B	Intact	Negative	0.12	0.19	0.12	0.19	0	1.13
133	07/23/12	Paint	Building 200	Exterior	Door	Wood	B	Intact	Negative	0.24	0.34	0.24	0.34	-0.15	1.28
134	07/23/12	Paint	Building 200	Exterior	Door trim	Wood	B	Intact	Negative	0.29	0.34	0.29	0.34	0	0.98
135	07/23/12	Paint	Building 200	Exterior	Wall	Brick	B	Intact	Null	0	0.02	0	0.02	-0.24	1.73
136	07/23/12	Paint	Building 200	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.4	0.7

Little Lake City School District
Lake Center Middle School

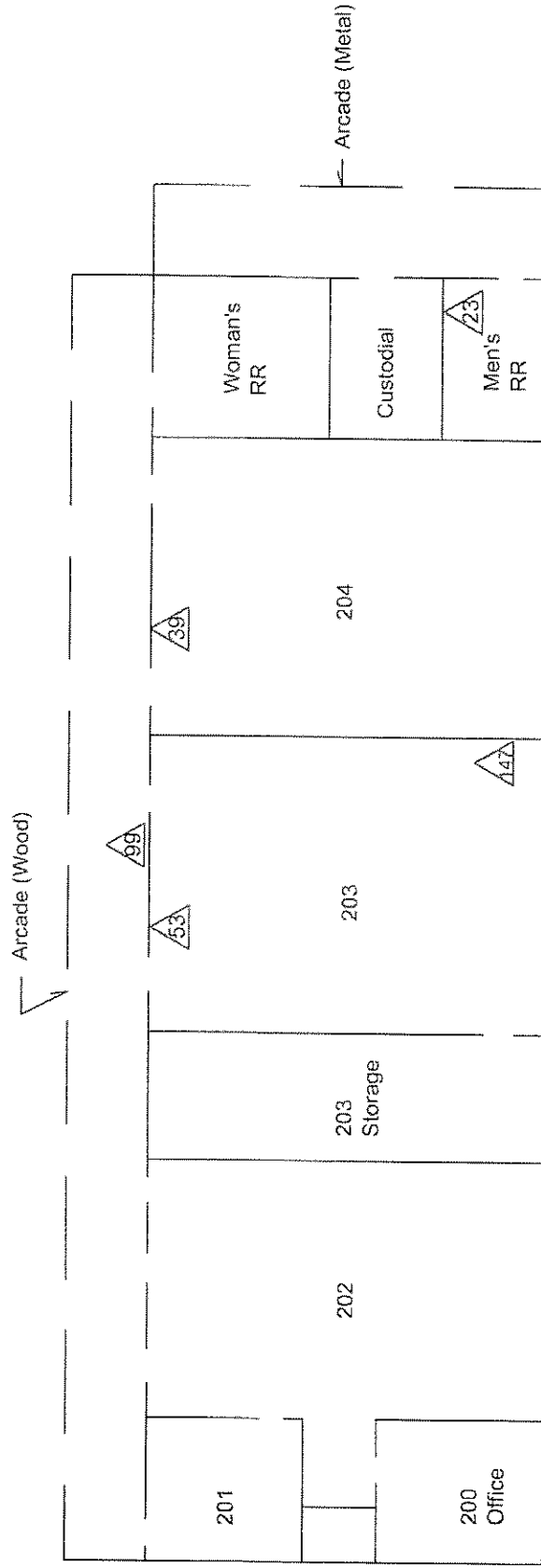
Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC Error	PbC	PbL Error	PbL	PbK Error	PbK
137	07/23/12	Paint	Building 200	Exterior	Wall	Brick	C	Intact	Null	0	0.02	0	0.02	0.6	3.2
138	07/23/12	Paint	Building 200	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.5	0.7
139	07/23/12	Paint	Building 200	Exterior	Downspout	Metal	C	Intact	Negative	0.3	0.21	0.3	0.21	0.3	0.91
140	07/23/12	Paint	Building 200	Exterior	Downspout	Metal	C	Intact	Negative	0.24	0.44	0.24	0.44	-0.15	2.83
141	07/23/12	Paint	Building 200	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	0.23	0.76
142	07/23/12	Paint	Building 200	Exterior	Gutter	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.04	1.87
143	07/23/12	Paint	Building 200	Exterior	Fascia	Wood	C	Intact	Negative	0.09	0.17	0.09	0.17	0.16	1
144	07/23/12	Paint	Building 200	Exterior	Overhang	Stucco	C	Intact	Negative	0	0.02	0	0.02	0.3	0.65
145	07/23/12	Paint	Building 200	Exterior	Downspout	Metal	C	Intact	Negative	0.01	0.03	0.01	0.03	0.09	0.95
146	07/23/12	Paint	Building 200	Exterior	Window frame	Metal	C	Intact	Negative	0.08	0.15	0.08	0.15	0.07	2.37
147	07/23/12	Paint	Building 200	Exterior	Sink faucet	Metal	B	Intact	Positive	17.8	11.7	0.4	0.5	17.8	11.7
148	07/23/12	Paint	Building 200	Exterior	Sink	Metal	B	Intact	Negative	0.01	0.02	0.01	0.02	0.2	1.8
149	07/23/12	Paint	Building 200	Exterior	Sink counter	Wood	B	Intact	Negative	0	0.02	0	0.02	0.4	1.4
150	07/23/12	Paint	Building 200	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	1	2.1
151	07/23/12	Paint	Building 200	Exterior	Conduit	Metal	A	Intact	Negative	0.02	0.08	0.02	0.08	0.07	1.95
152	07/23/12	Paint	Building 200	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	0.6	1.8
153	07/23/12	Paint			Calibrate				Positive	1.1	0.3	1.1	0.3	1	1.5

Little Lake City School District
 Lake Center Middle School

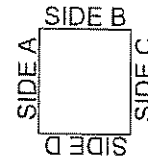
Reading No	Date	Type	Misc 1	Room	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error	PbK Error
154	07/23/12	Paint			Calibrate				Positive	0.9	0.1	0.1	0.7
155	07/23/12	Paint			Calibrate				Positive	1	0.2	1	0.6

APPENDIX B – SITE DRAWING

Bldg 200, Rooms 200-204



△ - Positive XRF Shots



Client: Little Lake City SD

Project#: 12-Z0187-0187

Info: Positive XRF Shot Locations

Site: Lake Center MS, Rms 200-204
 Address: 10503 South Pioneer Boulevard
 Santa Fe Springs, California 90670



Drawing Not to Scale - ©2002

APPENDIX C – LEAD HAZARD EVALUATION REPORT

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 7/23/12

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

Lead Inspection Risk assessment Clearance Inspection Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)] 10503 South Pioneer Blvd.	City Santa Fe Springs	County Los Angeles	Zip Code 90670
---	---------------------------------	------------------------------	--------------------------

Construction date (year) of structure N/A	Type of structure (check one box only) <input type="checkbox"/> Multi-unit building <input checked="" type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other (specify) _____
---	--

Section 4 — Owner of Structure (if business/agency, list contact person)

Name Little Lake City School District (John Shook)	Telephone number 562-868-8241 Ext. 247
--	--

Address [number, street, apartment (if applicable)] 10515 South Pioneer Blvd.	City Santa Fe Springs	State Los Angeles	Zip Code 90670
---	---------------------------------	-----------------------------	--------------------------

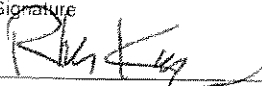
Section 5 — Results of Lead Hazard Evaluation (check all that apply)

No lead-based paint detected. Lead-based paint detected.
 No lead hazards detected. Lead hazards detected.

Section 6 — Individual Conducting Lead Hazard Evaluation

Name Rhys Kuzmic	Telephone number 626-441-7050
----------------------------	---

Address [number, street, apartment (if applicable)] 310 East Foothill Blvd. Suite 200	City Arcadia	State CA	Zip Code 91006
---	------------------------	--------------------	--------------------------

CDPH certification number 18093	Signature 	Date 7/23/12
---	--	------------------------

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLP 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLI and XLP series:

XLI 300A, XLI 301A, XLI 302A, and XLI 303A.
 XLP 300A, XLP 301A, XLP 302A, and XLP 303A.
 XLI 700A, XLI 701A, XLI 702A, and XLI 703A.
 XLP 700A, XLP 701A, XLP 702A, and XLP 703A.

Note: The XLI and XLP versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to greater than the Retest Tolerance Limit a second time, then the inspection should be consider deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges of thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED ASBESTOS INSPECTION REPORT

Conducted at:

STUDEBAKER ELEMENTARY SCHOOL
ROOFING AND PAINTING PROJECT
11800 HALCOURT AVENUE
NORWALK, CALIFORNIA 90650

Prepared for:

MR. BRENT GRIFFEN
DIRECTOR OF MAINTENANCE AND OPERATIONS AND CUSTODIAL SERVICES
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 18-Z0187-0030
March 22, 2018

Report assembled by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report generated/reviewed by:

Tim Galeana, CAC # 98-2470
Senior Project Manager
Executive Environmental

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- I. EXECUTIVE SUMMARY
- II. SAMPLING METHODOLOGY
- III. SAMPLE ANALYSIS
- IV. FINDINGS
- V. CONCLUSIONS/RECOMMENDATIONS
- VI. DISCLAIMER/REPORT LIMITATIONS

APPENDICES

APPENDIX A – LABORATORY ANALYSIS REPORT

APPENDIX B – SITE DRAWING

LIMITED ASBESTOS INSPECTION REPORT

Project Number: EE 18-Z0187-0030

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Studebaker Elementary School
Roofing and Painting Project
11800 Halcourt Avenue
Norwalk, California 90650

Site Use: School Property

Contact Person: Mr. Brent Griffen
Director of M&O and Custodial Services
Phone: (562) 868-8241

Inspection Date: March 6, 7 and 12, 2018

Inspected By: Mr. George Valverde
Certified Site Surveillance technician, # 10-4615

Mr. Juan A. Lopez
Industrial Hygienist

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Site Surveillance Technician and an Industrial Hygienist to conduct a limited asbestos inspection of the permanent buildings, portables and covered walkways at Studebaker Elementary School, located at 11800 Halcourt Avenue, Norwalk, California. The inspection was conducted as a precursor to the upcoming exterior painting and roofing project. Asbestos-Containing Materials (ACM's) were identified during this inspection. *This is considered a limited inspection. The inspection was limited to materials on the permanent buildings, portables and covered walkways that may be impacted by the exterior painting and/or roofing projects as directed by the client.*

II. SAMPLING METHODOLOGY

A visual inspection of the permanent buildings, portables and covered walkways was conducted prior to the collection of any bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were collected. The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared, and the samples were delivered to the laboratory for analysis. LA Testing of South Pasadena, California analyzed the samples using Polarized Light Microscopy (PLM). LA Testing of South Pasadena is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 200232-0, and is also accredited by the American Industrial Hygiene Association (AIHA), No. 102814. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

III. SAMPLE ANALYSIS

One hundred and forty-seven (147) suspect asbestos-containing material samples were collected during this inspection. The laboratory analysis results are listed in the following table. Materials determined not to contain asbestos are listed as "No Asbestos Detected" (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed, because the entire homogeneous area must be considered positive.

**Sampling results begin on the next page.
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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Covered Walkway						
1	Black roofing material (core sample)	On metal roof top	3,000 Square Feet	1803060030JL-01	West	5% Chrysotile
				1803060030JL-02	Center	60% Chrysotile
				1803060030JL-03	East	5% Chrysotile
				1803060030JL-04	West	NAD ^A
2	Texture coat	On metal ceiling	3,900 Square Feet	1803060030JL-05	West	NAD
				1803060030JL-06	Center	NAD
				1803060030JL-07	Center	NAD
				1803060030JL-08	East	NAD
				1803060030JL-09	East	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

**Sampling results continues on the next page.
The remainder of this page is intentionally blank.**

^A NAD – No Asbestos Detected

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 100						
3	Rolled roofing material (core sample)	Rooftop	3,750 Square Feet	1803060030JL-10	South	NAD ^B
				1803060030JL-11	Center	NAD
				1803060030JL-12	North	NAD
4	Roof penetration mastic	Rooftop at seams, patches and penetrations	65 Square Feet	1803060030JL-13	North	NAD
				1803060030JL-14	Center	NAD
				1803060030JL-15	South	NAD
5	Window putty	Throughout exterior side of window frames	250 Linear Feet	1803060030JL-16	Northeast	NAD
				1803060030JL-17	East	NAD
				1803060030JL-18	South	NAD
6	Brick mortar	Exterior perimeter walls	400 Square Feet	1803060030JL-19	Southwest	NAD
				1803060030JL-20	West	NAD
				1803060030JL-21	Northwest	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

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^B NAD – No Asbestos Detected

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 200						
7	Rolled roofing material (core sample)	Rooftop	6,250 Square Feet	1803060030JL-22	North	NAD ^c
				1803060030JL-23	Center	NAD
				1803060030JL-24	South	NAD
8	Roof penetration mastic	Rooftop at seams, patches and penetrations	100 Square Feet	1803060030JL-25	South	NAD
				1803060030JL-26	Center	NAD
				1803060030JL-27	North	NAD
9	Texture coat	Perimeter wood fascia	360 Linear Feet	1803060030JL-28	Northeast	NAD
				1803060030JL-29	East	NAD
				1803060030JL-30	Southeast	NAD
10	Window putty	Throughout exterior side of window frames	1,500 Linear Feet	1803060030JL-31	Southwest	NAD
				1803060030JL-32	West	NAD
				1803060030JL-33	Northwest	NAD
11	Brick mortar	Exterior perimeter walls	500 Square Feet	1803060030JL-34	Northeast	NAD
				1803060030JL-35	East	NAD
				1803060030JL-36	Southeast	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 300						
12	Rolled roofing material (core sample)	Rooftop	6,100 Square Feet	1803060030JL-37	North	NAD ^p
				1803060030JL-38	Center	NAD
				1803060030JL-39	South	NAD
13	Roof penetration mastic	Rooftop at seams, patches and penetrations	60 Square Feet	1803060030JL-40	South	NAD
				1803060030JL-41	Center	NAD
				1803060030JL-42	North	NAD
14	Window putty	Throughout exterior side of window frames	1,400 Linear Feet	1803060030JL-43	Southwest	NAD
				1803060030JL-44	West	NAD
				1803060030JL-45	Northwest	NAD
15	Stucco	Exterior, north side at drinking fountain	20 Square Feet	1803060030JL-46	North	NAD
				1803060030JL-47	North	NAD
				1803060030JL-48	North	NAD
16	Brick mortar	Exterior perimeter walls	450 Square Feet	1803060030JL-49	Northeast	NAD
				1803060030JL-50	East	NAD
				1803060030JL-51	Southeast	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 400						
17	Rolled roofing material (core sample)	Rooftop	6,100 Square Feet	1803060030JL-52	North	NAD ^E
				1803060030JL-53	Center	NAD
				1803060030JL-54	South	NAD
18	Roof penetration mastic	Rooftop at seams, patches and penetrations	60 Square Feet	1803060030JL-55	South	NAD
				1803060030JL-56	Center	NAD
				1803060030JL-57	North	NAD
19	Window putty	Throughout exterior side of window frames	1,400 Linear Feet	1803060030JL-58	Southwest	NAD
				1803060030JL-59	West	NAD
				1803060030JL-60	Northwest	NAD
20	Stucco	Exterior, north side at drinking fountain	20 Square Feet	1803060030JL-61	North	NAD
				1803060030JL-62	North	NAD
				1803060030JL-63	North	NAD
21	Brick mortar	Exterior perimeter walls	450 Square Feet	1803060030JL-64	Northeast	NAD
				1803060030JL-65	East	NAD
				1803060030JL-66	Southeast	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

**Sampling results continues on the next page.
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E NAD – No Asbestos Detected

Executive Environmental
Limited Asbestos Inspection Report

Studebaker ES – Roofing and Painting Project
Project Number EE 18-Z0187-0030
March 22, 2018

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 500						
22	Rolled roofing material (core sample)	Rooftop	6,100 Square Feet	1803070030JL-67	Northeast	NAD ^F
				1803070030JL-68	Center	NAD
				1803070030JL-69	Southwest	NAD
23	Roof penetration mastic	Rooftop at seams, patches and penetrations	60 Square Feet	1803070030JL-70	Southwest	NAD
				1803070030JL-71	Center	NAD
				1803070030JL-72	Northeast	NAD
24	Window putty	Throughout exterior side of window frames	1,400 Linear Feet	1803070030JL-73	North	NAD
				1803070030JL-74	West	NAD
				1803070030JL-75	Southwest	NAD
25	Stucco	Exterior, south side at drinking fountain	20 Square Feet	1803070030JL-76	Southwest	NAD
				1803070030JL-77	Southwest	NAD
				1803070030JL-78	Southwest	NAD
26	Brick mortar	Exterior perimeter walls	450 Square Feet	1803070030JL-79	South	NAD
				1803070030JL-80	East	NAD
				1803070030JL-81	Northeast	NAD

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Administration Building^G						
27	Rolled roofing material (core sample)	Rooftop	3,000 Square Feet	1803070030JL-82	North	NAD ^H
				1803070030JL-83	Center	NAD
				1803070030JL-84	South	NAD
28	Roof penetration mastic	Rooftop at seams, patches and penetrations	20 Square Feet	1803070030JL-85	South	NAD
				1803070030JL-86	Center	NAD
				1803070030JL-87	North	NAD
29	Window putty	Throughout exterior side of window frames	450 Linear Feet	1803070030JL-88	East	NAD
				1803070030JL-89	Northeast	NAD
				1803070030JL-90	North	NAD
30	Brick mortar	Exterior perimeter walls	315 Square Feet	1803070030JL-91	South	NAD
				1803070030JL-92	Southwest	NAD
				1803070030JL-93	West	NAD

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**Sampling results continues on the next page.
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^G NOTE; 1) No stucco identified.
^H NAD – No Asbestos Detected

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Multi-Purpose Building¹						
31	Rolled roofing material (core sample)	Rooftop no. 1	3,400 Square Feet	1803070030JL-94	East	NAD ^J
				1803070030JL-95	Center	NAD
				1803070030JL-96	South	NAD
32	Roof penetration mastic (core sample)	Rooftop no. 1 at seams, patches and penetrations	20 Square Feet	1803070030JL-97	South	NAD
				1803070030JL-98	Center	NAD
33	Rolled roofing material (core sample)	Rooftop no. 2	2,300 Square Feet	1803070030JL-99	East	NAD
				1803070030JL-100	Northeast	NAD
34	Roof penetration mastic (core sample)	Rooftop no. 2 at seams, patches and penetrations	50 Square Feet	1803070030JL-101	Center	NAD
				1803070030JL-102	Southwest	NAD
				1803070030JL-103	Northeast	NAD
35	Stucco	Overhangs of rooftops no. 1 & 2 and perimeter of windows	550 Square Feet	1803070030JL-104	Center	NAD
				1803070030JL-105	Southwest	NAD
				1803070030JL-106	Northeast	NAD
36	Brick mortar	Exterior perimeter walls	315 Square Feet	1803070030JL-107	Center	NAD
				1803070030JL-108	Southwest	NAD
				1803070030JL-109	West	NAD
				1803070030JL-110	Southwest	NAD
				1803070030JL-111	South	NAD

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¹ NOTE: 1) No window putty identified.
J NAD – No Asbestos Detected

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Building 600^k						
37	Rolled roofing material (core sample)	Rooftop	6,100 Square Feet	1803120030GV-112	North	NAD ^L
				1803120030GV-113	East	NAD
				1803120030GV-114	South	NAD
38	Roof penetration mastic	Rooftop at seams, patches and penetrations	120 Linear Feet	1803120030GV-115	North	NAD
				1803120030GV-116	Center	NAD
				1803120030GV-117	South	NAD
39	Window putty	Throughout exterior side of window frames	20 Square Feet	1803120030GV-118	South	NAD
				1803120030GV-119	South	NAD
				1803120030GV-120	South	NAD
40	Brick mortar	Throughout exterior walls	450 Square Feet	1803120030GV-121	Southwest	NAD
				1803120030GV-122	East	NAD
				1803120030GV-123	Northeast	NAD

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**Sampling results continues on the next page.
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^k NOTE: 1) No window putty.
^L NAD – No Asbestos Detected

Executive Environmental
Limited Asbestos Inspection Report

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
11800 Halcourt Avenue
Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Portables^M						
41	Roof penetration mastic	Media Center: Rooftop seams, patches and penetrations	150 Linear Feet	1803120030GV-124	Northeast	NAD ^N
				1803120030GV-125	Northwest	NAD
				1803120030GV-126	Southwest	NAD
42	Roof penetration mastic	Portable 701: Rooftop seams, patches and penetrations	80 Linear Feet	1803120030GV-127	North	NAD
				1803120030GV-128	East	NAD
				1803120030GV-129	Southwest	NAD
43	Roof penetration mastic	Portable 702: Rooftop seams, patches and penetrations	80 Linear Feet	1803120030GV-130	Northwest	NAD
				1803120030GV-131	East	NAD
				1803120030GV-132	Southeast	NAD
44	Roof penetration mastic	Portable 703: Rooftop seams, patches and penetrations	80 Linear Feet	1803120030GV-133	West	NAD
				1803120030GV-134	Center	NAD
				1803120030GV-135	East	NAD
45	Roof penetration mastic	Portable 704: Rooftop seams, patches and penetrations	60 Linear Feet	1803120030GV-136	Northwest	NAD
				1803120030GV-137	Center	NAD
				1803120030GV-138	Southeast	NAD
46	Roof coating mastic	Portable 206: Throughout rooftop	900 Square Feet	1803120030GV-139	Southwest	NAD
				1803120030GV-140	Center	NAD
				1803120030GV-141	Northeast	NAD

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**Sampling results continues on the next page.
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^M NOTE: 1) Metal roof on Media Center, Rooms 701, 702, 703, 704, 206, 207 and 208.
^N NAD – No Asbestos Detected

Executive Environmental
Limited Asbestos Inspection Report

Studebaker ES – Roofing and Painting Project
Project Number EE 18-Z0187-0030
March 22, 2018

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Studebaker Elementary School
 11800 Halcourt Avenue
 Norwalk, California 90650

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Sample Number	Sample Location	Analytical Results
Portables						
47	Roof coating mastic	Portables 207: Throughout rooftop	900 Square Feet	1803120030GV-142	Northwest	NAD ^o
				1803120030GV-143	South	NAD
				1803120030GV-144	Southeast	NAD
48	Roof coating mastic	Portable 208: Throughout rooftop	900 Square Feet	1803120030GV-145	Northeast	NAD
				1803120030GV-146	Southeast	NAD
				1803120030GV-147	Northwest	NAD

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IV. FINDINGS

EE conducted a limited asbestos inspection of the permanent buildings, portables and covered walkways at Studebaker Elementary School, located at 11800 Halcourt Avenue, Norwalk, California.

Forty-eight (48) homogeneous material groups were identified during the visual property inspection. One hundred and forty-seven (147) samples of suspect asbestos-containing materials were collected and delivered to LA Testing of South Pasadena, CA for analysis. The homogeneous areas and sampling results are listed on the table in Section III.

The analytical data revealed that the following material contain asbestos:

Covered Walkway:

- Roof penetration mastic: The roof penetration mastic located on metal rooftop at jacks, seams, patches and penetrations tested positive for asbestos content.

V. CONCLUSIONS/RECOMMENDATIONS

Normally, asbestos-containing material found to be in good condition is not considered a hazard, unless it is disturbed. Prior to the start of any activity, such as remodeling, demolition, or renovation, that might disturb this material, a Certified Asbestos Consultant should be contracted to design and monitor the project. A California-licensed asbestos contractor should be hired to complete the asbestos abatement procedures.

If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321805459

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Attention: Yesenia Galeana
Executive Environmental Services Corp.
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Phone: (626) 441-7050

Fax: (626) 441-0016

Received Date: 03/07/2018 8:00 AM

Analysis Date: 03/09/2018 - 03/12/2018

Collected Date: 03/06/2018

Project: 18-Z0187-0030 | Sampler: Juan A. Lopez (18-Z0187-0030)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-01 A 321805459-0001	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1803060030JL-01 B 321805459-0001A QC	Gray Non-Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
1803060030JL-02 321805459-0002	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1803060030JL-03 321805459-0003	Gray/Black Fibrous Homogeneous		50% Non-fibrous (Other)	50% Chrysotile
1803060030JL-04 321805459-0004	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-05 321805459-0005	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-06 321805459-0006	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-07 321805459-0007	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-08 321805459-0008	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-09 321805459-0009	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-10-A 321805459-0010	Gray/Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-10-B 321805459-0010A	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-10-C 321805459-0010B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-10-D 321805459-0010C	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-10-E 321805459-0010D	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-11-A 321805459-0011	Gray/Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected

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LA Testing

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LA Testing Order: 321805459

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-11-B 321805459-0011A	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-11-C 321805459-0011B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-11-D 321805459-0011C	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-11-E 321805459-0011D	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-12-A 321805459-0012	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1803060030JL-12-B 321805459-0012A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-12-C 321805459-0012B	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-12-D 321805459-0012C	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-12-E 321805459-0012D	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-13 321805459-0013	Gray/Black Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
1803060030JL-14 321805459-0014	Gray/Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803060030JL-15 321805459-0015	Gray/Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1803060030JL-16 321805459-0016	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-17 321805459-0017	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-18 321805459-0018 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-19 321805459-0019 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-20 321805459-0020	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-21 321805459-0021	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-22-A 321805459-0022	Gray/Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected

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LA Testing

520 Mission Street South Pasadena, CA 91030
 Tel/Fax: (323) 254-9960 / (323) 254-9982
 http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321805459
Customer ID: 32EXEC52
Customer PO:
Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-22-B <small>321805459-0022A</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-22-C <small>321805459-0022B</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-22-D <small>321805459-0022C</small>	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-22-E <small>321805459-0022D</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-23-A <small>321805459-0023</small>	Gray/Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-23-B <small>321805459-0023A</small>	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-23-C <small>321805459-0023B</small>	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-23-D <small>321805459-0023C</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-23-E <small>321805459-0023D</small>	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-24-A <small>321805459-0024</small>	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1803060030JL-24-B <small>321805459-0024A</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-24-C <small>321805459-0024B</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-24-D <small>321805459-0024C</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-24-E <small>321805459-0024D</small>	Black/Pink Non-Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-25 <small>321805459-0025</small> QC	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803060030JL-26 <small>321805459-0026</small>	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803060030JL-27 <small>321805459-0027</small> QC	Black Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
1803060030JL-28 <small>321805459-0028</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-29 <small>321805459-0029</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing

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LA Testing Order: 321805459
Customer ID: 32EXEC52
Customer PO:
Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-30 321805459-0030	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-31 321805459-0031	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-32 321805459-0032	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-33 321805459-0033	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-34 321805459-0034	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-35 321805459-0035	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-36 321805459-0036 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-37-A 321805459-0037	Gray/Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-37-B 321805459-0037A	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-37-C 321805459-0037B	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-37-D 321805459-0037C	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-37-E 321805459-0037D	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-38-A 321805459-0038	Gray/Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
1803060030JL-38-B 321805459-0038A	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-38-C 321805459-0038B	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-38-D 321805459-0038C	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-38-E 321805459-0038D	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-39-A 321805459-0039	Gray/Black Fibrous Homogeneous		20% Vermiculite 80% Non-fibrous (Other)	None Detected
1803060030JL-39-B 321805459-0039A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected

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LA Testing

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321805459
Customer ID: 32EXEC52
Customer PO:
Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-39-C <small>321805459-0039B</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-39-D <small>321805459-0039C</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-39-E <small>321805459-0039D</small>	Tan/Black Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-40 <small>321805459-0040</small>	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803060030JL-41 <small>321805459-0041</small>	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803060030JL-42 <small>321805459-0042</small>	Gray/Black/Silver Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803060030JL-43 <small>321805459-0043</small>	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-44 <small>321805459-0044</small>	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-45 <small>321805459-0045</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-46-A <small>321805459-0046</small>	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-46-B <small>321805459-0046A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-47-A <small>321805459-0047</small>	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-47-B <small>321805459-0047A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-48-A <small>321805459-0048</small> QC	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-48-B <small>321805459-0048A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-49 <small>321805459-0049</small> QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-50 <small>321805459-0050</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-51 <small>321805459-0051</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-52-A <small>321805459-0052</small>	Gray/Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected

Initial report from: 03/12/2018 12:45:17



LA Testing

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 Tel/Fax: (323) 254-9960 / (323) 254-9982
<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321805459
 Customer ID: 32EXEC52
 Customer PO:
 Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-52-B <small>321805459-0052A</small>	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-52-C <small>321805459-0052B</small>	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-52-D <small>321805459-0052C</small>	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-52-E <small>321805459-0052D</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-53-A <small>321805459-0053</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-53-B <small>321805459-0053A</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-53-C <small>321805459-0053B</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-53-D <small>321805459-0053C</small>	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-53-E <small>321805459-0053D</small>	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-53-F <small>321805459-0053E</small>	Black Non-Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-54-A <small>321805459-0054</small>	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1803060030JL-54-B <small>321805459-0054A</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-54-C <small>321805459-0054B</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-54-D <small>321805459-0054C</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803060030JL-54-E <small>321805459-0054D</small>	Black Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
1803060030JL-55 <small>321805459-0055 QC</small>	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803060030JL-56 <small>321805459-0056</small>	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-57 <small>321805459-0057</small>	Black/Silver Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1803060030JL-58 <small>321805459-0058</small>	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803060030JL-59 321805459-0059 QC	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-60 321805459-0060	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-61-A 321805459-0061	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-61-B 321805459-0061A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-62 321805459-0062	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-63-A 321805459-0063	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-63-B 321805459-0063A QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-64 321805459-0064	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-65 321805459-0065	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803060030JL-66 321805459-0066	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Arturo Casas (40)
Guillermo Hernandez (81)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 03/12/2018 12:45:17

#321805459

 <p>EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SOLUTIONS</p>	<p>Executive Environmental Laboratory Submittal ASBESTOS</p>	Originating Office: <input checked="" type="checkbox"/> 310 E. Foothill Blvd, Suite 200 Arcadia, CA 91006 Phone: 626 441 7050 Fax: 626 441 0016	Lab Submitted to: <input checked="" type="checkbox"/> LA Testing (Sierra Madre) <input type="checkbox"/> AmeriSci <input type="checkbox"/> EMLab (Glendale)
---	---	---	--

<input checked="" type="checkbox"/> Routine (3 working days)	<input type="checkbox"/> RUSH (surcharges may apply) Circle 6 24 48 One hours hours hours	Results Required by: (date and Time): _____
--	--	--

Project #: 18-20167-0030 Submitted by: Juan A. Lopez Date: 3/6/19 Page 1 of 1

The receiving Laboratory is required to complete the following:

- All invoices are to be sent to: 310 E. Foothill Blvd, Ste 200, Arcadia, CA 91006 with a copy of the lab report.
- All lab reports and invoices are to contain the Project Number from above.
- Unsigned reports marked "draft" are unacceptable.
- Report to the attention of: Yesenia Galeana Ph: (562) 889-1327

Optional Items to be completed by the Laboratory if check marked:

- Fax report to: 626.441.0016 Other: JLopez@execenv.com
 Email Report to: Info@EXECENV.com Other: _____
 PHONE & Email RESULTS TO: Yesenia Galeana @626-873-2300 & ygaleana@execenv.com

Analyses Codes for Analyses: **PCM** -- NIOSH 7400 **PLM** -- PLM EPA 600/R-93/116 **TEM** -- AHERA 40 CFR, Part 763
 Requested Column for Asbestos: **Point Count** - 1000 Point Count w/Gravimetric Reduction **Other** - Contact office & write Method In w/description

Lab No.:	Sample No.:	Media	Air Volume	Analyses Requested
Sample Number Prefix: 1803060030JL	-01	Bulk	N/A	PLM
		-66		

Notes: 1) Laboratory to assign sequential Alpha Letter starting with "A" to each layer of layered samples analyzed.

Relinquished by: [Signature] Date: 3/6/19 Time: 10:40
 Received by: D. Flores (Dag Bee) Date: 3/7/19 Time: 8am
 Received in Lab by: _____ Date: _____ Time: _____



LA Testing

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LA Testing Order: 321805863
Customer ID: 32EXEC52
Customer PO:
Project ID: 18-Z0187-0030

Attention: Yesenia Galeana
Executive Environmental Services Corp.
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006
Project: 18-Z0187-0030 | Sampler: Juan Angel Lopez (18-Z0187-0030)

Phone: (626) 441-7050
Fax: (626) 441-0016
Received Date: 03/09/2018 4:05 PM
Analysis Date: 03/14/2018
Collected Date: 03/07/2018

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803070030JL-67-A <small>321805863-0001</small>	Gray/Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-67-B <small>321805863-0001A</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-67-C <small>321805863-0001B</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-67-D <small>321805863-0001C</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-67-E <small>321805863-0001D</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-68-A <small>321805863-0002</small>	Gray/Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-68-B <small>321805863-0002A</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-68-C <small>321805863-0002B</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-68-D <small>321805863-0002C</small>	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-68-E <small>321805863-0002D</small>	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-69-A <small>321805863-0003</small>	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803070030JL-69-B <small>321805863-0003A</small>	Brown/Black Non-Fibrous Homogeneous	25% Cellulose 15% Glass	60% Non-fibrous (Other)	None Detected
1803070030JL-69-C <small>321805863-0003B</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-69-D <small>321805863-0003C</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-69-E <small>321805863-0003D</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-70 <small>321805863-0004</small>	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected

Initial report from: 03/14/2018 14:39:29



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LA Testing Order: 321805863

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803070030JL-71 321805863-0005	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803070030JL-72 321805863-0006	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-73 321805863-0007	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-74 321805863-0008	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-75 321805863-0009	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-76-A 321805863-0010	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-76-B 321805863-0010A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-77-A 321805863-0011	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-77-B 321805863-0011A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-78-A 321805863-0012	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-78-B 321805863-0012A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-79 321805863-0013 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-80 321805863-0014 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-81 321805863-0015 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-82-A 321805863-0016	Gray/Black Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-82-B 321805863-0016A	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-82-C 321805863-0016B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-82-D 321805863-0016C	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected

Initial report from: 03/14/2018 14:39:29



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LA Testing Order: 321805863

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803070030JL-82-E 321805863-0016D	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-83-A 321805863-0017	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1803070030JL-83-B 321805863-0017A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-83-C 321805863-0017B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-83-D 321805863-0017C	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-83-E 321805863-0017D	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-84-A 321805863-0018	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803070030JL-84-B 321805863-0018A	Brown/Black Non-Fibrous Homogeneous	25% Cellulose 15% Glass	60% Non-fibrous (Other)	None Detected
1803070030JL-84-C 321805863-0018B	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-84-D 321805863-0018C	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-84-E 321805863-0018D	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-85 321805863-0019	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-86 321805863-0020	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-87 321805863-0021	Black/Silver Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1803070030JL-88 321805863-0022 QC	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-89 321805863-0023	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-90 321805863-0024	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-91 321805863-0025	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-92 321805863-0026	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/14/2018 14:39:29



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LA Testing Order: 321805863

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Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803070030JL-93 321805863-0027	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-94-A 321805863-0028	White/Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
1803070030JL-94-B 321805863-0028A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-94-C 321805863-0028B	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-94-D 321805863-0028C	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-94-E 321805863-0028D	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-95-A 321805863-0029	White/Black Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-95-B 321805863-0029A	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-95-C 321805863-0029B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-95-D 321805863-0029C	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-95-E 321805863-0029D	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-96-A 321805863-0030	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803070030JL-96-B 321805863-0030A	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-96-C 321805863-0030B	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-96-D 321805863-0030C	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-97 321805863-0031	Gray/Black/Silver Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-98 321805863-0032 QC	Gray/Black/Silver Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-99 321805863-0033 QC	Gray/Black/Silver Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
1803070030JL-100-A 321805863-0034	Gray/Black Non-Fibrous Homogeneous	3% Cellulose 20% Glass	77% Non-fibrous (Other)	None Detected

Initial report from: 03/14/2018 14:39:29



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Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803070030JL-100-B 321805863-0034A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-100-C 321805863-0034B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-100-D 321805863-0034C	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-101-A 321805863-0035	Gray/Black Non-Fibrous Homogeneous	5% Cellulose 15% Glass	80% Non-fibrous (Other)	None Detected
1803070030JL-101-B 321805863-0035A	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-101-C 321805863-0035B	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-101-D 321805863-0035C	Black Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
1803070030JL-101-E 321805863-0035D	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-102-A 321805863-0036	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803070030JL-102-B 321805863-0038A	Brown/Black Non-Fibrous Homogeneous	25% Cellulose 15% Glass	60% Non-fibrous (Other)	None Detected
1803070030JL-102-C 321805863-0038B	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-102-D 321805863-0036C	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803070030JL-103 321805863-0037	Gray/Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-104 321805863-0038	Gray/Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-105 321805863-0039 QC	Gray/Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
1803070030JL-106 321805863-0040	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-107 321805863-0041 QC	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-108 321805863-0042	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-109 321805863-0043	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/14/2018 14:39:29



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@lateesting.com

LA Testing Order: 321805863

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos
		% Fibrous	% Non-Fibrous	% Type
1803070030JL-110 <small>321805863-0044 QC</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803070030JL-111 <small>321805863-0045 QC</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Guillermo Hernandez (63)

Nahid Motamedi (30)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 03/14/2018 14:39:29

#321805863

EXECUTIVE ENVIRONMENTAL
HEALTH, SAFETY & EMPLOYMENT

Executive Environmental
Laboratory Submittal
ASBESTOS

Originating Office:
 310 E. Foothill Blvd., Suite 200
 Arcadia, CA 91006
 Phone: 626 441 7050
 Fax: 626 441 0016

Lab Submitted to:
 LA Testing (Sierra Madre)
 AmeriSci
 EMLab (Glendale)

Routine
(3 working days)

RUSH (surcharges may apply)
 Circle **6 24 48**
 One hours hours hours

Results Required by: (date and Time): _____

Project #: 18-20187-0030 Submitted by: Juan Angel Lopez Date: 03/07/18 Page 1 of 1

- The receiving Laboratory is required to complete the following:
- All invoices are to be sent to: 310 E. Foothill Blvd, Ste 200, Arcadia, CA 91006 with a copy of the lab report.
 - All lab reports and invoices are to contain the Project Number from above.
 - Unsigned reports marked "draft" are unacceptable.
 - Report to the attention of: Yesenia Galeana Ph: (562) 889-1327

Optional Items to be completed by the Laboratory if check marked:

Fax report to: 626.441.0016 Other: JLopez @execenv.com

Email Report to: Info@EXECENV.com Other: _____

PHONE & Email RESULTS TO: Yesenia Galeana @626-873-2300 & ygaleana@execenv.com

Analyses Codes for Analyses: PCM -- NIOSH 7400 PLM -- PLM EPA 600/R-93/116 TEM -- AHERA 40 CFR, Part 763
 Requested Column for Asbestos: Point Count - 1000 Point Count w/Gravimetric Reduction Other - Contact office & write Method In w/description

Lab No.:	Sample No.:	Media	Air Volume	Analyses Requested
Sample Number Prefix: 1803070030 JL	67	Bulk	N/A	PLM
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓
	↓	↓	↓	↓

Notes: 1) Laboratory to assign sequential Alpha Letter starting with "A" to each layer of layered samples analyzed.

Relinquished by: [Signature] Date: 03/08/18 Time: 5:00am
 Received by: [Signature] Date: 03/08/18 Time: 8:05am
 Received in Lab by: T. [Signature] Date: 3-8-18 Time: 4:05pm



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321806082

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Attention: Yesenia Galeana
Executive Environmental Services Corp.
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Phone: (626) 441-7050

Fax: (626) 441-0016

Received Date: 03/14/2018 8:00 AM

Analysis Date: 03/17/2018

Collected Date: 03/12/2018

Project: 18-Z0187-0030 | Sampler: George Valverde (18-Z0187-0030)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos % Type
		% Fibrous	% Non-Fibrous	
1803120030GV-112-A <small>321806082-0001</small>	White/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803120030GV-112-B <small>321806082-0001A</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803120030GV-112-C <small>321806082-0001B</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803120030GV-112-D <small>321806082-0001C</small>	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
1803120030GV-113-A <small>321806082-0002</small>	White/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803120030GV-113-B <small>321806082-0002A</small>	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803120030GV-114-A <small>321806082-0003</small>	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803120030GV-114-B <small>321806082-0003A</small>	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
1803120030GV-114-C <small>321806082-0003B</small>	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
1803120030GV-115 <small>321806082-0004</small>	White/Black Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
1803120030GV-116 <small>321806082-0005</small>	Black/Silver Non-Fibrous Homogeneous	10% Cellulose 3% Synthetic	87% Non-fibrous (Other)	None Detected
1803120030GV-117 <small>321806082-0006</small>	Gray/Black/Silver Non-Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1803120030GV-118-A <small>321806082-0007</small>	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-118-B <small>321806082-0007A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-118-C <small>321806082-0007B</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-119-A <small>321806082-0008</small> QC	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/17/2018 11:24:39



LA Testing

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Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321806082

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos
		% Fibrous	% Non-Fibrous	% Type
1803120030GV-119-B <small>321806082-0008A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-119-C <small>321806082-0008B</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-120-A <small>321806082-0009</small>	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-120-B <small>321806082-0009A</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-120-C <small>321806082-0009B</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-121 <small>321806082-0010</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-122 <small>321806082-0011 QC</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-123 <small>321806082-0012</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-124 <small>321806082-0013</small>	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-125 <small>321806082-0014</small>	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-126 <small>321806082-0015</small>	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-127 <small>321806082-0016</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-128 <small>321806082-0017</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-129 <small>321806082-0018</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-130-A <small>321806082-0019</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-130-B <small>321806082-0019A</small>	Gray Non-Fibrous Homogeneous	45% Fibrous (Other)	55% Non-fibrous (Other)	None Detected
1803120030GV-131 <small>321806082-0020</small>	Gray Non-Fibrous Homogeneous	45% Synthetic	55% Non-fibrous (Other)	None Detected
1803120030GV-132 <small>321806082-0021</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-133 <small>321806082-0022</small>	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/17/2018 11:24:39



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321806082

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos
		% Fibrous	% Non-Fibrous	% Type
1803120030GV-134 321806082-0023	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-135 321806082-0024	White Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-136 321806082-0025 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-137 321806082-0026	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-138 321806082-0027 QC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-139 321806082-0028	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-140 321806082-0029 QC	Gray/Black Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
1803120030GV-141 321806082-0030 QC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-142 321806082-0031	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-143 321806082-0032	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-144 321806082-0033	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-145 321806082-0034	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-146 321806082-0035	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1803120030GV-147 321806082-0036	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/17/2018 11:24:39



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321806082

Customer ID: 32EXEC52

Customer PO:

Project ID: 18-Z0187-0030

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Appearance	Non-Asbestos		Asbestos
		% Fibrous	% Non-Fibrous	% Type

Analyst(s)

Julie Vong (16)

Nahid Motamedi (33)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 03/17/2018 11:24:39

#321806082

 <p>EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SOLUTIONS</p>	<p>Executive Environmental Laboratory Submittal ASBESTOS</p>	<p>Originating Office:</p> <input checked="" type="checkbox"/> 310 E. Foothill Blvd Suite 200 Arcadia, CA 91006 Phone: 626 441 7050 Fax: 626 441 0016	<p>Lab Submitted to:</p> <input checked="" type="checkbox"/> LA Testing (Sierra Madre) <input type="checkbox"/> AmeriSci <input type="checkbox"/> EMLab (Glendale)
---	---	--	--

Routine
(3 working days)

RUSH (surcharges may apply)
 Circle **6 24 48**
 One **hours hours hours**

Results Required by: (date and Time): _____

Project #: 16-70187-0030 Submitted by: GEORGE VALVERDE Date: 3-12-18 Page 1 of 1

The receiving Laboratory is required to complete the following:

- All invoices are to be sent to: 310 E. Foothill Blvd, Ste 200, Arcadia, CA 91006 with a copy of the lab report.
- All lab reports and invoices are to contain the Project Number from above.
- Unsigned reports marked "draft" are unacceptable.
- Report to the attention of: Yesenia Galeana Ph: (562) 889-1327

Optional Items to be completed by the Laboratory if check marked:

Fax report to: 626.441.0016 Other: _____

Email Report to: Info@EXECENV.com Other: _____

PHONE & Email RESULTS TO: Yesenia Galeana @626-873-2300 & ygaleana@execenv.com

Analyses Codes for Analyses: PCM -- NIOSH 7400 PLM -- PLM EPA 600/R-93/116 TEM -- AHERA 40 CFR, Part 763
 Requested Column for Asbestos: Point Count - 1000 Point Count w/Gravimetric Reduction Other - Contact office & write Method In w/description

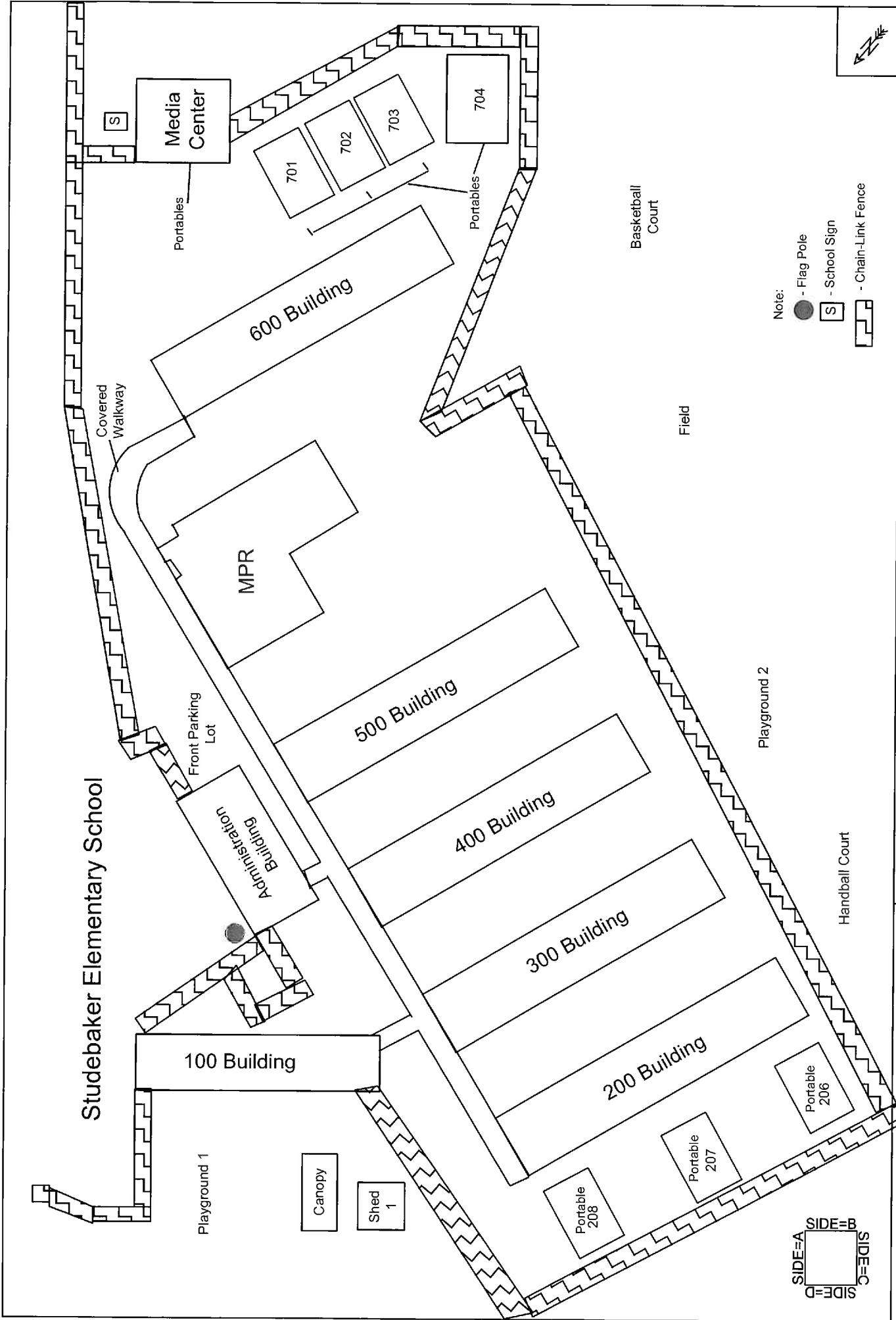
Lab No.:	Sample No.:	Media	Air Volume	Analyses Requested
Sample Number Prefix: 1803/2003060	112	BULK	N/A	PLM
	113			
	114			
	147			

Notes: 1) Laboratory to assign sequential Alpha Letter starting with "A" to each layer of layered samples analyzed.

Root/box

Relinquished by: _____	Date: _____	Time: _____
Received by: <u>DF Flores (Drop Box)</u>	Date: <u>3/14/18</u>	Time: <u>8am</u>
Received in Lab by: _____	Date: _____	Time: _____

APPENDIX B – SITE DRAWING



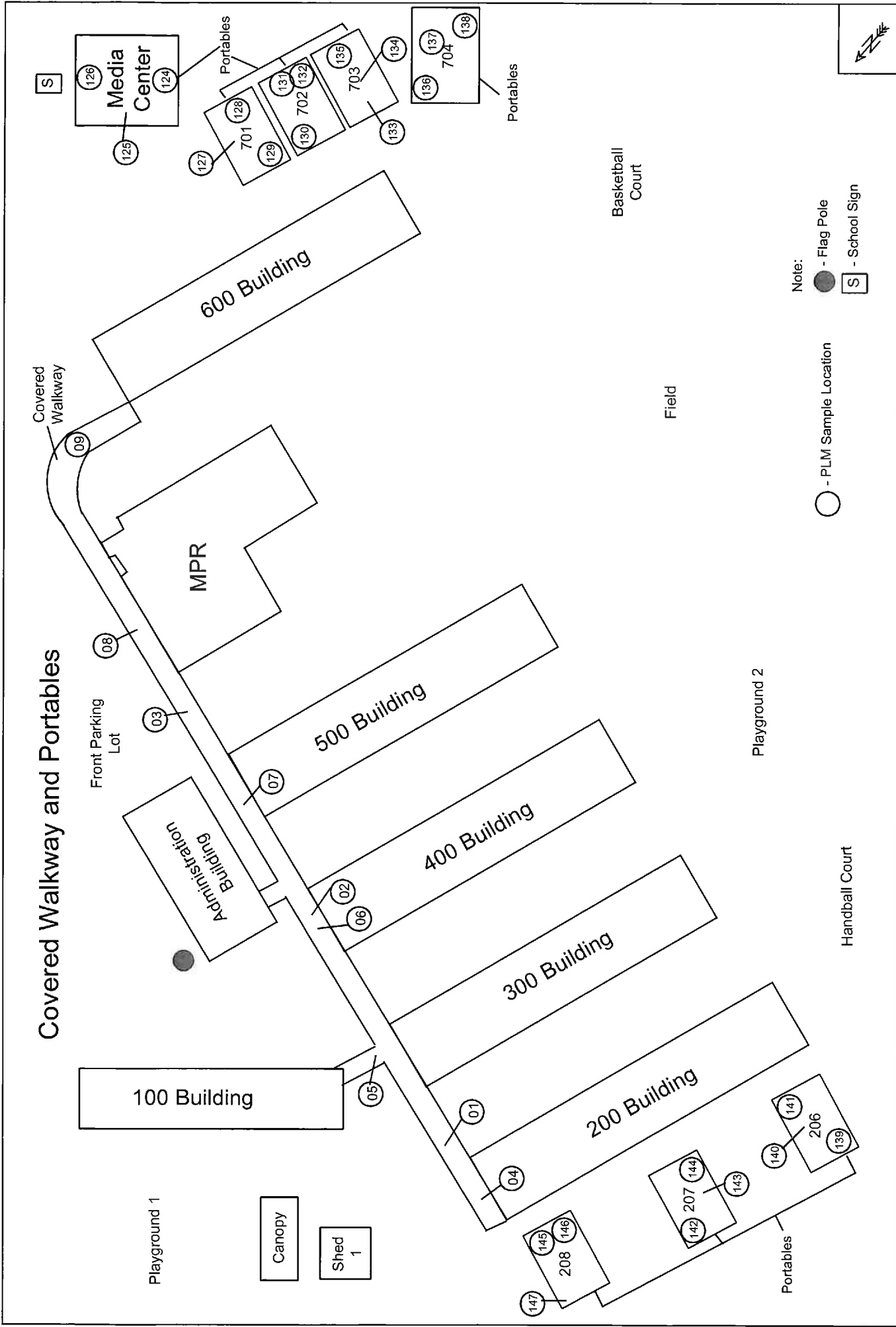
- Note:
- Flag Pole
 - School Sign
 - Chain-Link Fence

<p>Client: Little Lake City SD</p>	<p>Project #: 18-Z0187-0030</p>	<p>Info: Site Map</p>
<p>Site: Stuebaker ES-Roofing and Painting Project Address: 11800 Halcourt Avenue Norwalk, California 90650</p>		

EXECUTIVE ENVIRONMENTAL
 HEALTH & SAFETY SIMPLIFIED

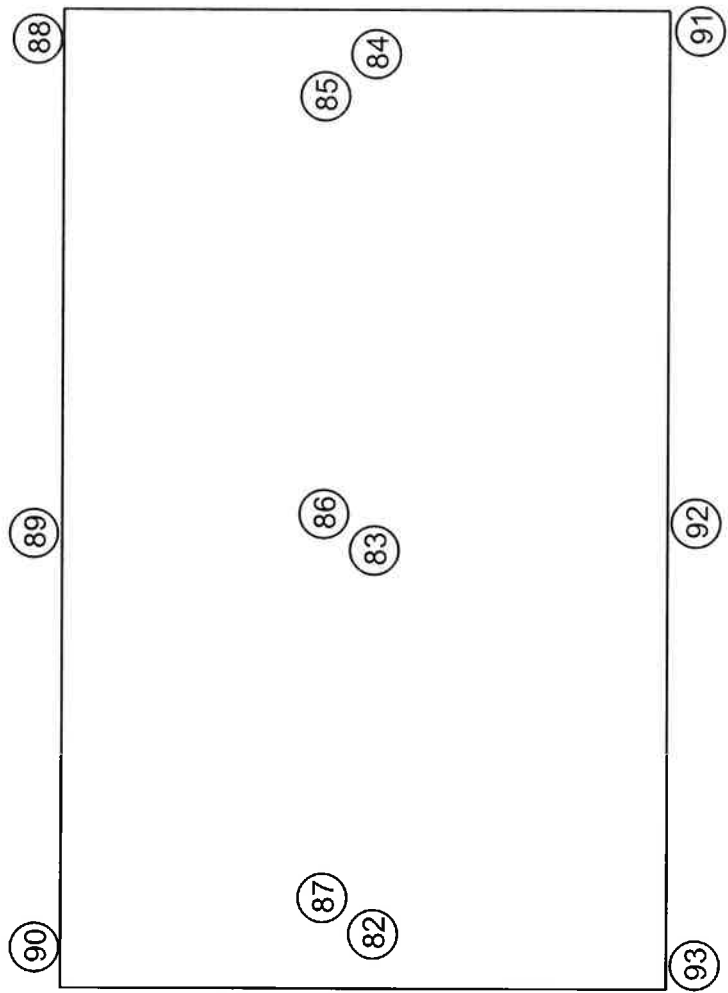


Drawing Not to Scale - © 2012




<p>Client: Little Lake City SD</p>	<p>Project #: 18-Z0187-0030</p>	<p>Info: PLM Sample Locations</p>
<p>EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED</p> <p>Site: Studebaker ES-Roofing and Painting Project 11800 Halcourt Avenue Norwalk, California 90650</p> <p><small>Drawing Not to Scale - © 2012</small></p>		

Administration Building

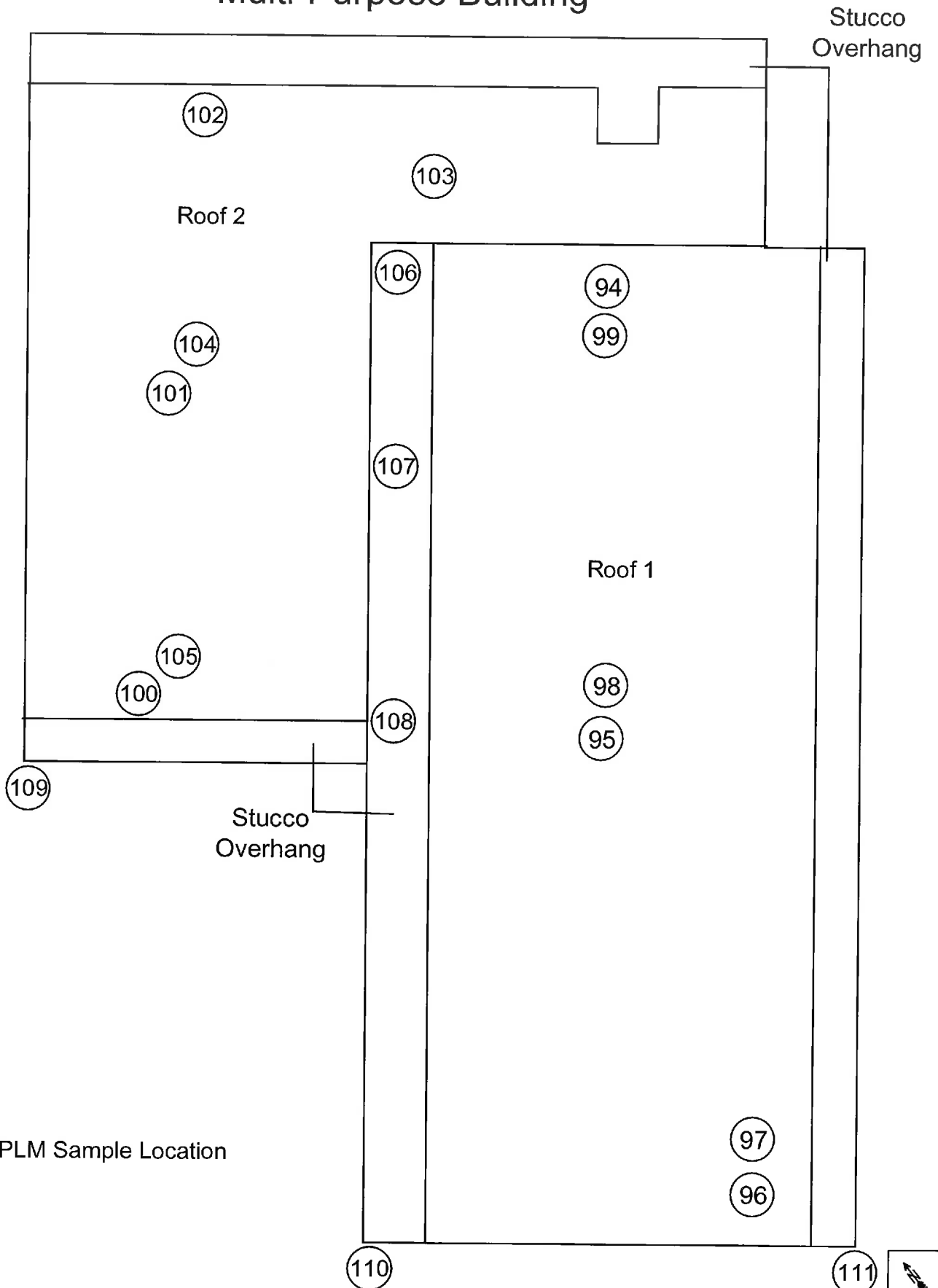


○ - PLM Sample Location



Client: Little Lake City SD	Project #: 18-Z0187-0030	Info: PLM Sample Locations
		Site: Studebaker ES-Roofing and Painting Project Address: 11800 Halcourt Avenue Norwalk, California 90650
<small>Drawing Not to Scale © 2012</small>		

Multi-Purpose Building



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

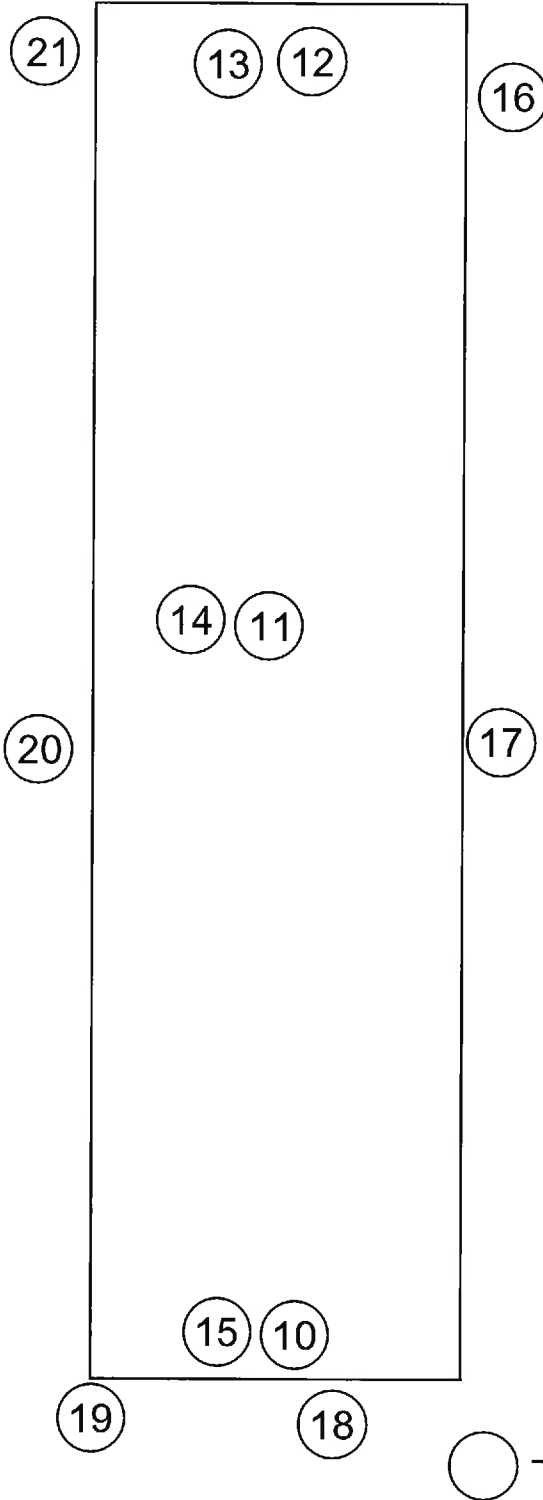


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

Drawing Not to Scale - © 2012

Building 100



○ - PLM Sample Location



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

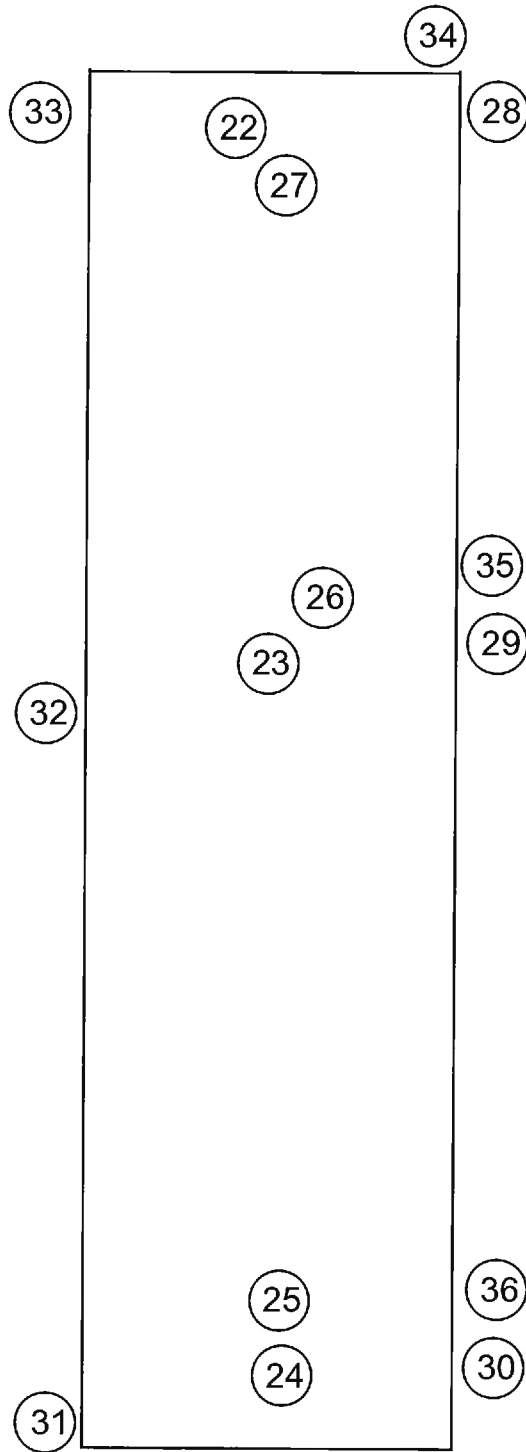


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

Drawing Not to Scale - © 2012

Building 200



○ - PLM Sample Location



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

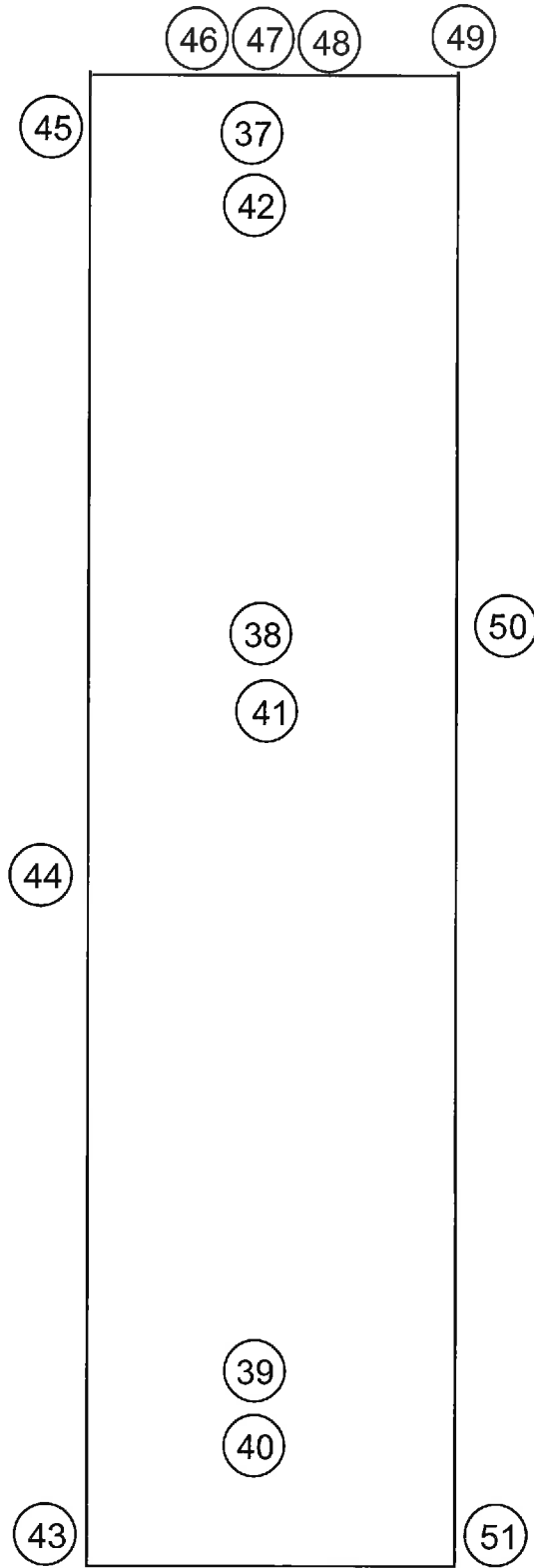


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

Drawing Not to Scale - © 2012

Building 300



○ - PLM Sample Location



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

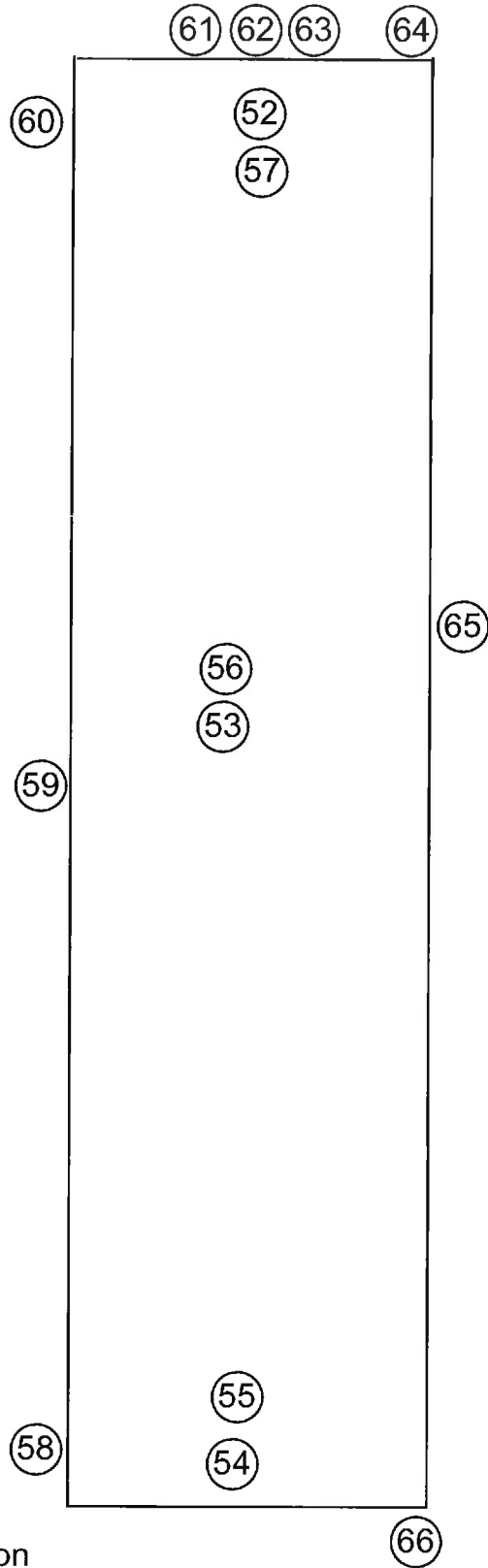


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Stuebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 400



○ - PLM Sample Location



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

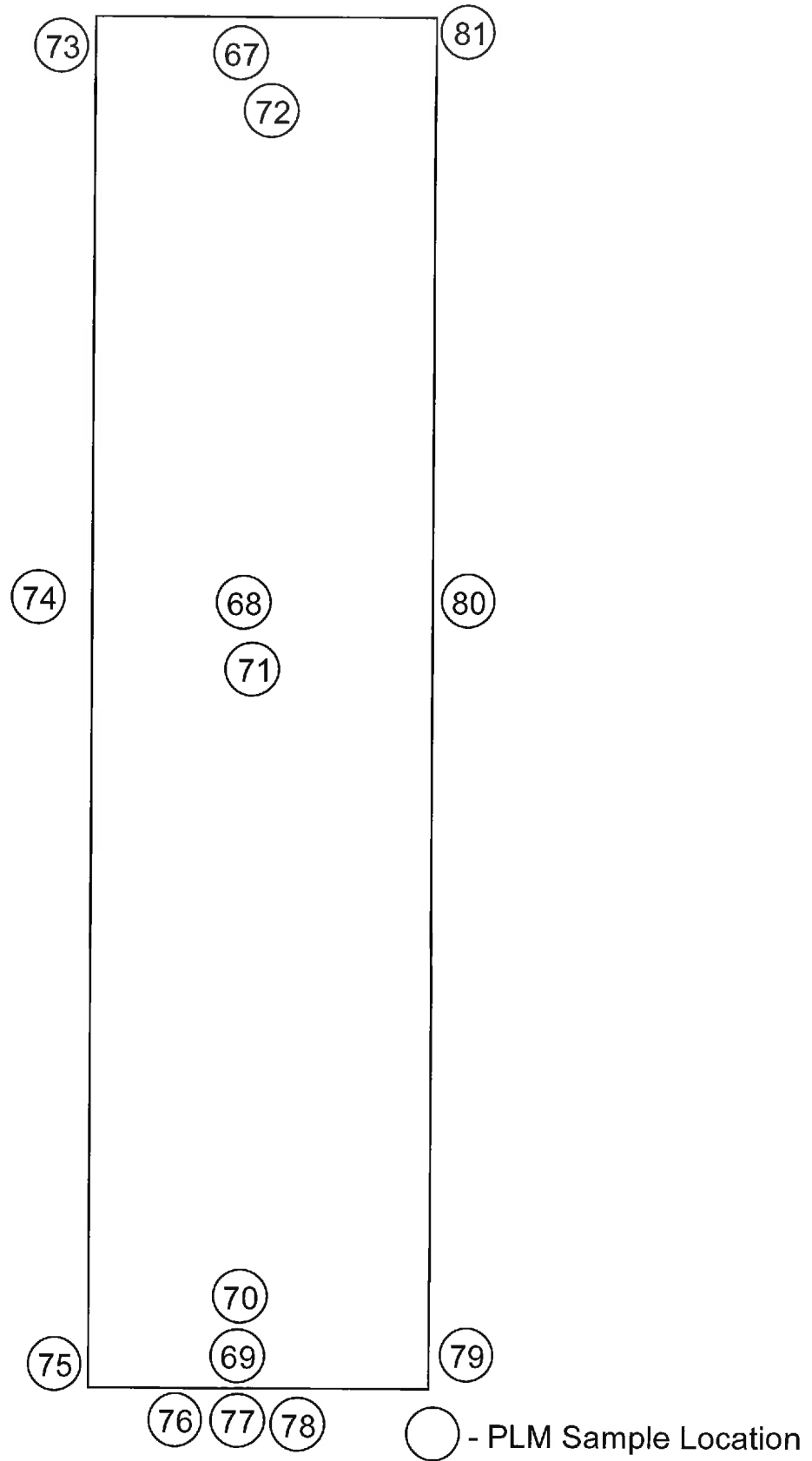


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 500



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations

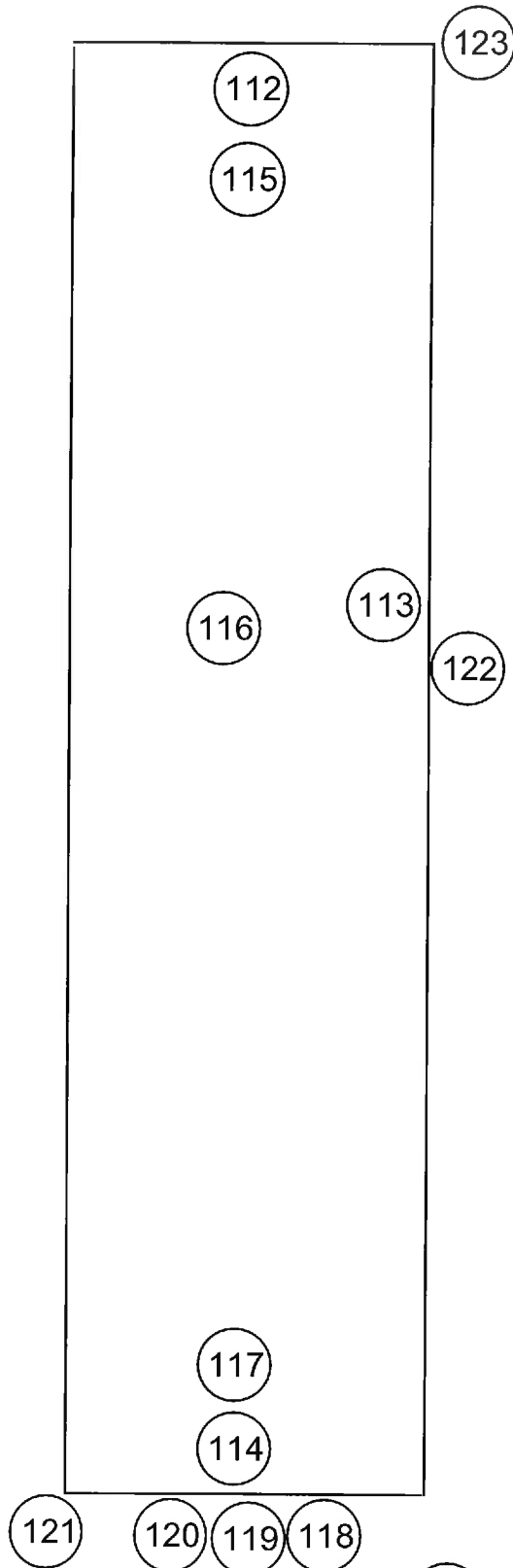


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 600



○ - PLM Sample Location



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: PLM Sample Locations



EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Stuebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED LEAD-BASED PAINT/CERAMIC TILE INSPECTION REPORT

Conducted at:

STUDEBAKER ELEMENTARY SCHOOL
ROOFING AND PAINTING PROJECTS
11800 HALCOURT AVENUE
NORWALK, CALIFORNIA 90650

Prepared for:

MR. BRENT GRIFFEN
DIRECTOR OF MAINTENANCE AND OPERATIONS AND CUSTODIAL SERVICES
LITTLE LAKE CITY SCHOOL DISTRICT
10515 SOUTH PIONEER BOULEVARD
SANTA FE SPRINGS, CALIFORNIA 90670

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
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Project Number EE 18-Z0187-0030
March 22, 2018

Report assembled by:

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LIMITED LEAD-BASED PAINT/CERAMIC TILE INSPECTION

Project Number: EE 18-Z0187-0030

Client: Little Lake City School District
10515 South Pioneer Boulevard
Santa Fe Springs, California 90670

Site Location: Studebaker Elementary School
Roofing and Painting Projects
11800 Halcourt Avenue
Norwalk, California 90650

Site Use: School Property

Contact Person: Mr. Brent Griffen
Director of M&O and Custodial Services
Phone: (562) 868-8241

Inspection Date: March 5 thru 8, 2018

Inspected By: Mr. George Valverde
Certified Lead Professional, CDPH #24605

Report Assembled By: Ms. Yesenia G. Galeana
Technical Report Writer

Report Generated/Reviewed By: Mr. Tim Galeana
Certified Lead Professional, CDPH # 3732

I. EXECUTIVE SUMMARY

Executive Environmental (EE) was retained by the Little Lake City School District to conduct a limited lead-based paint/ceramic tile inspection of permanent buildings, portables and covered walkways at Studebaker Elementary School, located at 11800 Halcourt Avenue, Norwalk, California. The inspection was conducted as a precursor to upcoming roofing and exterior painting projects. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Regulated lead-based paint and/or ceramic tile was detected during this inspection. EE's Certified Lead Professional (CLP) conducted these services on March 5, 6, 7 and 8, 2018. *This is considered a limited inspection. The inspection was limited to exterior surfaces and components anticipated to be impacted by the roofing project and/or the exterior painting project, as directed by the client.*

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard

Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of at least 1.0 mg/cm² (milligrams per centimeter squared) by X-Ray Fluorescence (XRF) analysis, or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm² via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm² action level was used for determining the lead-based paint in this inspection because it is more stringent than the HUD guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction Rule 29 Code of Federal Regulation (CFR) 1926.62 and California Code of Regulations Title 8, Section 1532.1 Lead (8CCR1532.1) and Title 8, Section 5198, Lead (8CCR5198). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being coated with lead-based paint or ceramic glaze that will be impacted by the roofing and painting projects. After identifying the materials suspected of being coated with a lead-based paint, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g., classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times even though they appeared uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint and/or glaze was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint within the range of 0 to 50 milligrams per centimeter squared (mg/cm²). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Niton Corporation.

The following specifications apply to the Niton XRF:

- Ability to report both the K and L shell line x-ray emission energies simultaneously and report the lead concentration in mg/cm².

- Accuracy for a single reading on all building materials within 0.2 mg/cm², at 95 percent confidence, at 0 to 1 mg/cm².
- Equipped with a 40 milli-curie (mCi) cadmium, 109-sealed, radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state, and federal standards, the following surfaces and/or components that were analyzed with the Niton XRF instrument during this inspection are considered to be coated with a regulated lead-based paint or ceramic glaze.

XRF SAMPLE ANALYSIS DATA				
Studebaker Elementary School 11800 Halcourt Avenue Norwalk, California 90650				
Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm²
Building 100^A				
Exterior	Window components	Metal	865 Linear Feet	1.9 -2.6
Exterior – sides B and D	Transom	Wood	24 Square Feet	1.5
	Wall trim (above windows)	Wood	100 Linear Feet	1.5
	Overhang beam	Wood	185 Linear Feet	4
Exterior	Fascia	Wood	100 Linear Feet	2
Building 200^B				
Exterior – side D	Transom	Wood	32 Square Feet	1.2
Exterior – sides B and D	Window components	Metal	1,650 Linear Feet	1.4-2.1
	Wall trim (above windows)	Wood	200 Linear Feet	1.7
	Overhang beam	Wood	195 Linear Feet	2.5
Exterior – side D	Vent	Metal	3 Linear Feet	3.9
Exterior	Fascia	Wood	380 Linear Feet	2.9

Note: This table must be used in conjunction with the entire report.

^A NOTE: Paint on the fascia (side C) was identified as being in poor condition (peeling). District should consider stabilization of peeling paint and clean-up of visible debris as soon as possible.

^B NOTE: Paint on the fascia (side A) was identified as being in poor condition (peeling). District should consider stabilization of peeling paint and clean-up of visible debris as soon as possible.

XRF SAMPLE ANALYSIS DATA				
Studebaker Elementary School 11800 Halcourt Avenue Norwalk, California 90650				
Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm²
Building 300^C				
Exterior – side D	Transom	Wood	32 Square Feet	1.7
Exterior – sides B and D	Window components	Metal	615 Linear Feet	2.2
	Wall trim (above windows)	Wood	200 Linear Feet	1.9
	Overhang	Wood	1,820 Square Feet	2.7
	Overhang beam	Wood	195 Linear Feet	2.7
Exterior	Fascia	Wood	375 Linear Feet	1.9
Building 400^D				
Exterior – side D	Transom	Wood	32 Square Feet	2.4
Exterior – sides B and D	Window components	Metal	615 Linear Feet	2.1-2.2
	Wall trim (above windows)	Wood	200 Linear Feet	2.8
	Overhang	Wood	1,820 Square Feet	1.2
	Overhang beam	Wood	195 Linear Feet	2.8
Exterior	Fascia	Wood	375 Linear Feet	2.6

Note: This table must be used in conjunction with the entire report.

^C NOTE: Note: 1) No coat on metal drinking fountain and metal handrail.

^D NOTE: NOTE: 1) Paint on the overhang fascia (side A) was identified as being in poor condition (peeling). District should consider stabilization of peeling paint and clean-up of visible debris as soon as possible. 2) No coat on metal drinking fountain and metal handrail.

XRF SAMPLE ANALYSIS DATA				
Studebaker Elementary School 11800 Halcourt Avenue Norwalk, California 90650				
Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm²
Building 500^E				
Exterior – side D	Transom	Wood	32 Square Feet	1.4
Exterior – sides B and D	Window components	Metal	615 Linear Feet	2.7-2.8
	Wall trim (above windows)	Wood	200 Linear Feet	2.2
	Overhang	Wood	1,820 Square Feet	1.3
	Overhang beam	Wood	195 Linear Feet	2.7
Exterior	Fascia	Wood	375 Linear Feet	1.3
Building 600^F				
<i>No regulated lead-based paint and/or ceramic glaze was identified on the exterior surfaces or components of Building 600.</i>				
Administration Building				
Exterior – sides B and D	Vent	Metal	4 Square Feet	2.8
Exterior	Window components	Metal	600 Linear Feet	1.2-2.5
Exterior – sides B and D	Overhang	Wood	1,820 Square Feet	1.3
	Gutter	Metal	140 Linear Feet	1.2
Multi-Purpose Building^G				
Rooftops 1 and 2	Fascia	Wood	420 Linear Feet	1.3-2.1

Note: This table must be used in conjunction with the entire report.

^E NOTE: NOTE: 1) No coat on metal drinking fountain and metal handrail.

^F NOTE: NOTE: 1) No coat on metal drinking fountain and metal handrail..

^G NOTE: NOTE: 1) No coat on metal drinking fountain and metal handrail..

XRF SAMPLE ANALYSIS DATA				
Studebaker Elementary School 11800 Halcourt Avenue Norwalk, California 90650				
Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm²
Covered Walkway				
Exterior	Ceiling beam	Metal	1,065 Linear Feet	5.9-7.7
Campus				
North parking lot	Curb (yellow)	Concrete	210 Linear Feet	2.8-2.9
	Floor stripes (yellow)	Concrete	600 Linear Feet	0.8
No regulated lead-based paint and/or ceramic glaze was identified on the exterior surfaces or components of the Basketball Court, Handball Court, Benches, Field, Storage Shed 1, Playgrounds, Canopy, Flag pole, School Sign, Perimeter Gates and Fences.				
Portables				
No regulated lead-based paint and/or ceramic glaze was identified on the exterior surfaces or components of Portables 206, 207, 208, 701, 702, 703, 704 and Media Center.				

Note: This table must be used in conjunction with the entire report.

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a limited lead-based paint and/or ceramic glaze inspection of the permanent buildings, portables and covered walkways at Studebaker Elementary School, located at 11800 Halcourt Avenue, Norwalk, California. The following conclusions and/or recommendations apply:

Limited Lead-Based Paint/Ceramic Tile Inspection

- Exterior painted surfaces and components of the permanent buildings, portables and covered walkways at Jersey Elementary School were tested via the Niton XRF for the presence of lead.
- The items listed in the previous table were identified as being coated with a regulated lead-based paint and/or ceramic glaze.
- The surfaces/components were observed to be in poor to intact condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

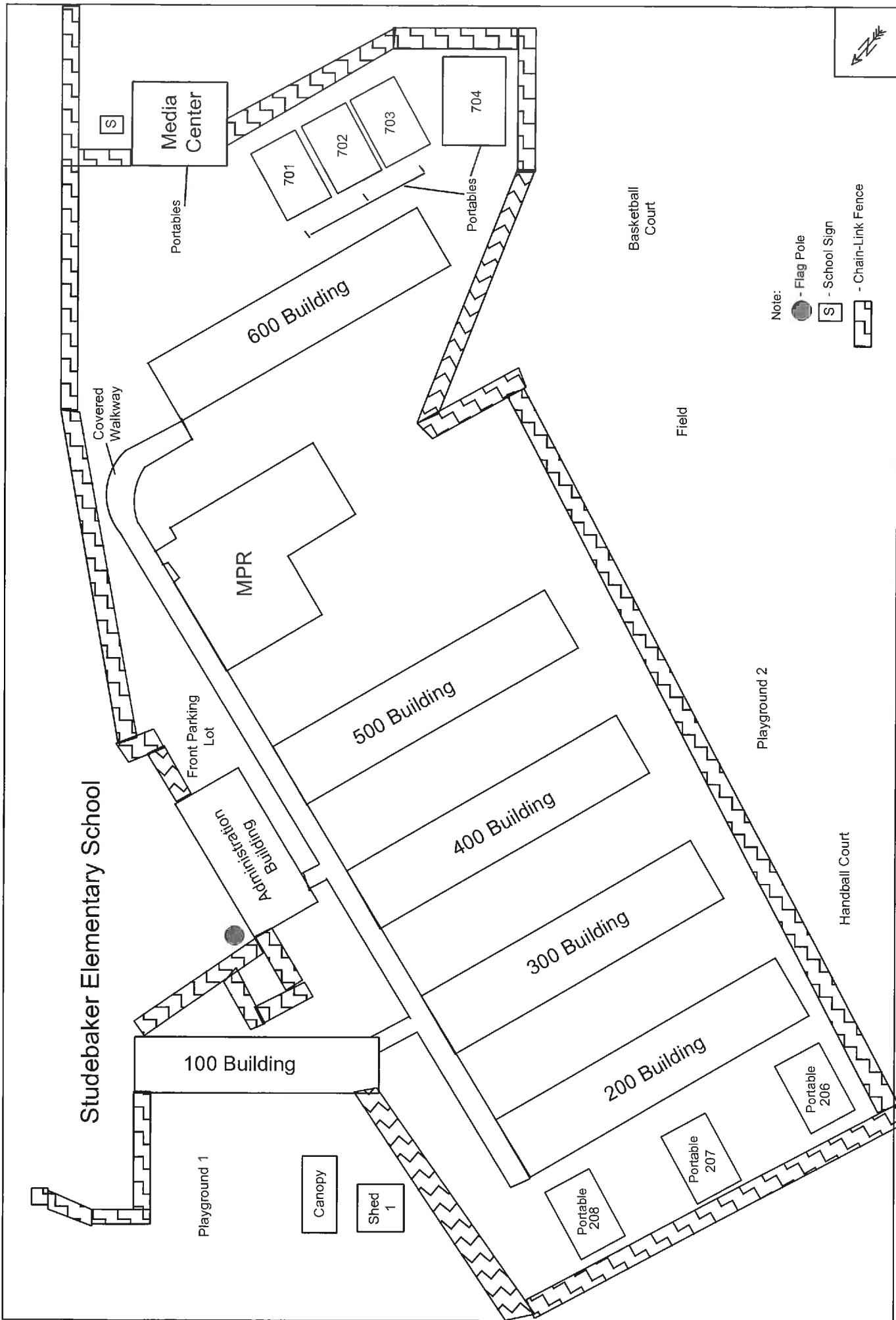
It is recommended that all renovation, remodeling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint and/or ceramic glaze be performed by properly trained and qualified personnel.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

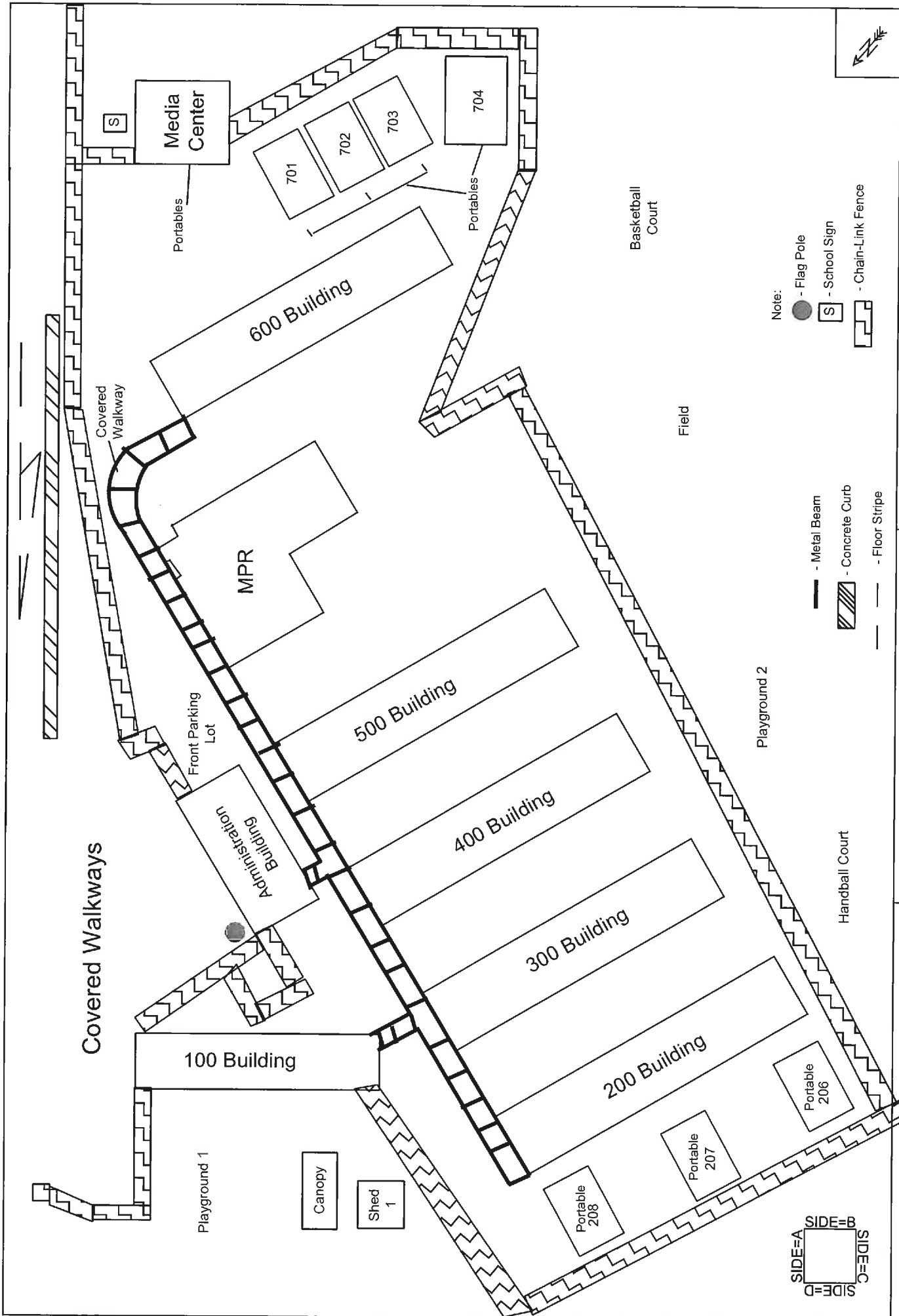
APPENDIX A – SITE DRAWINGS



- Note:
- Flag Pole
 - School Sign
 - Chain-Link Fence

<p>Client: Little Lake City SD</p>	<p>Project #: 18-Z0187-0030</p>	<p>Info: Site Map</p>
<p>Site: Studebaker ES-Roofing and Painting Project Address: 11800 Halcourt Avenue Norwalk, California 90650</p>		





Client: Little Lake City SD

Project #: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

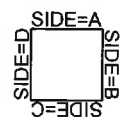
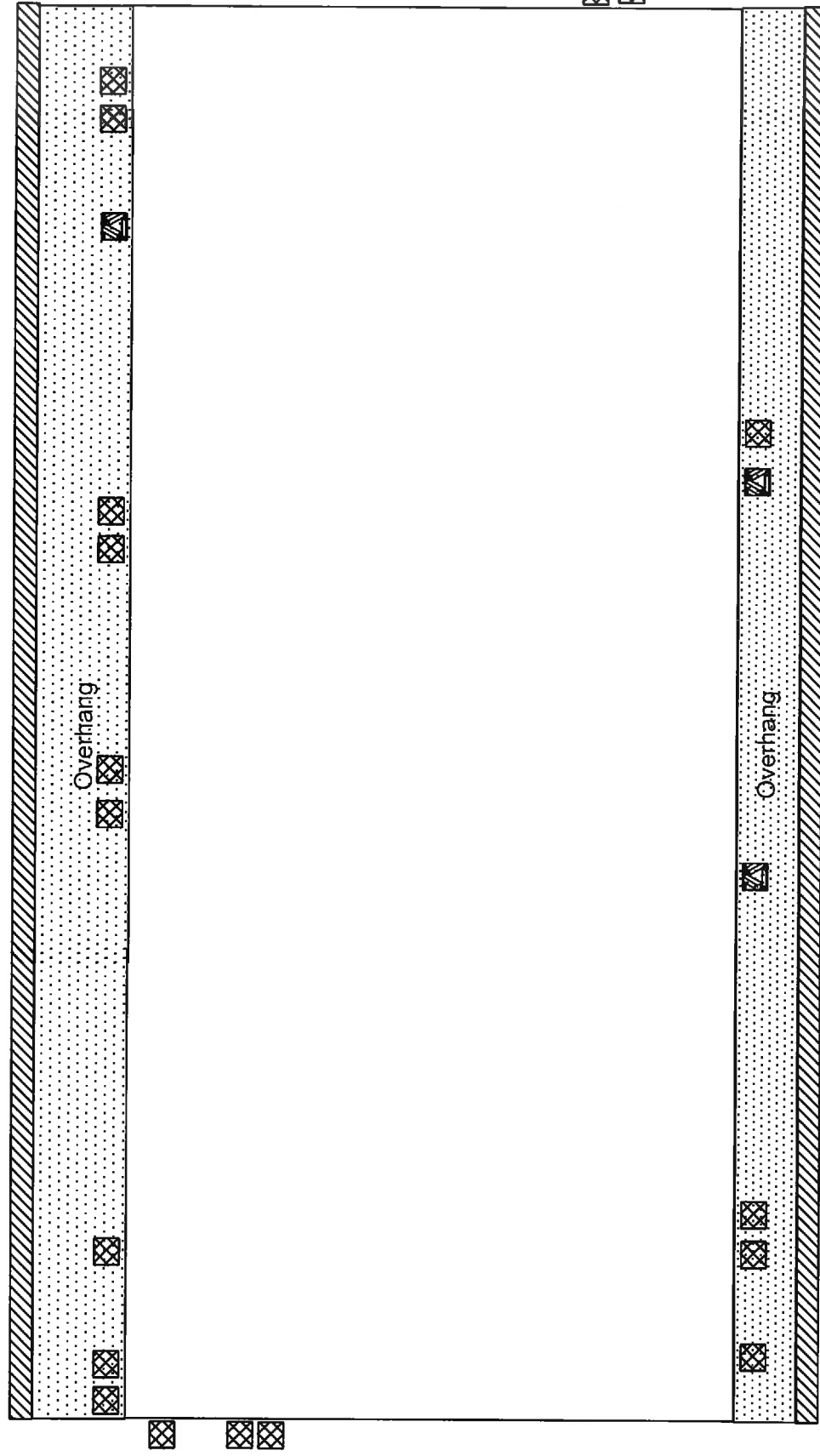
Site: Stuebaker ES-Roofing and Painting Project
11800 Halcourt Avenue
Address: Norwalk, California 90650

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Logo: [Stylized 'E' logo for Executive Environmental]

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Administration Building



-  - Wood Overhang
-  - Metal Window Component
-  - Metal Vent
-  - Metal Gutter

Client: Little Lake City SD

Project #: 18-Z0187-0030

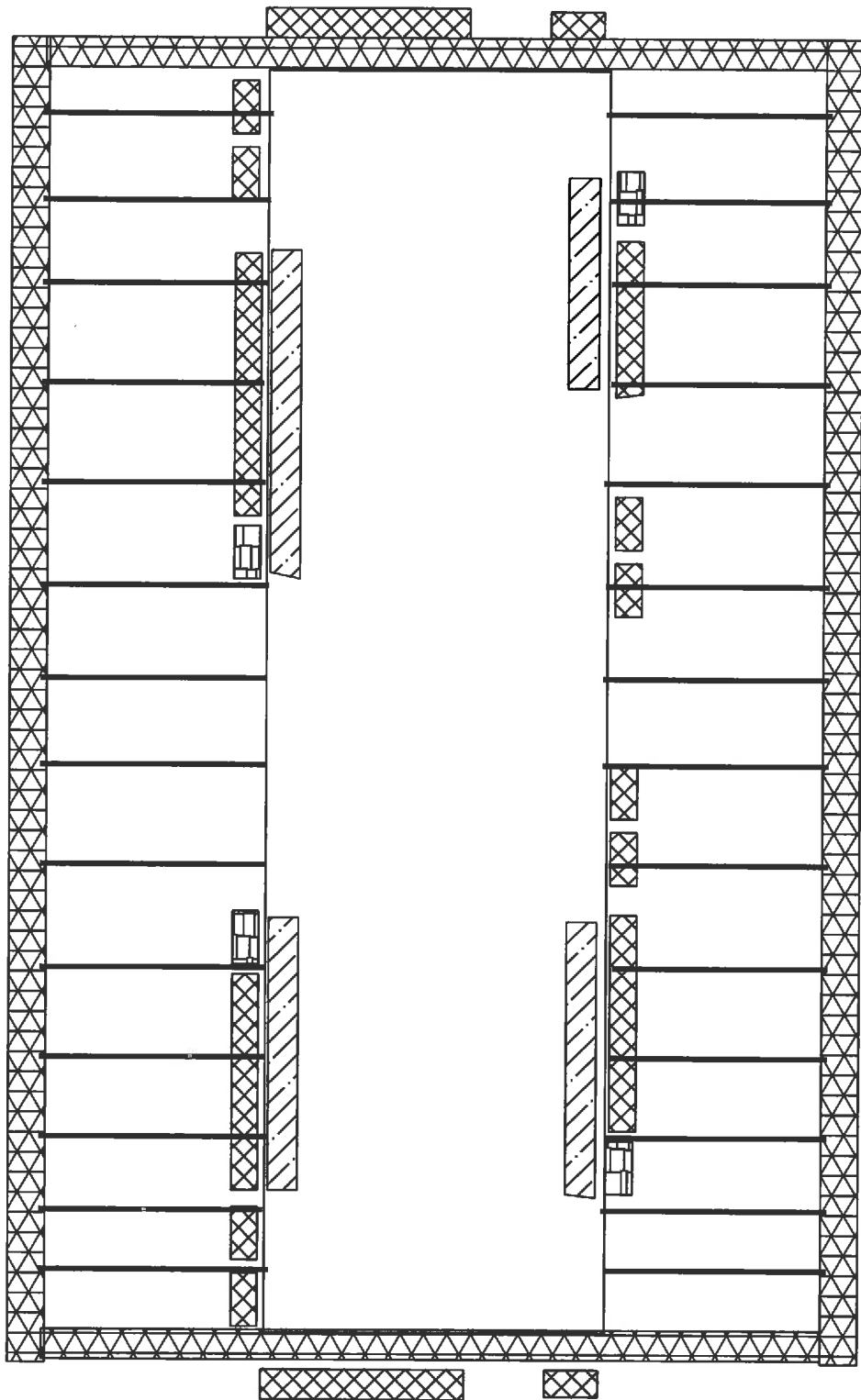
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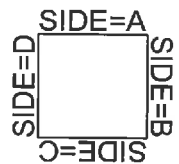
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
 Norwalk, California 90650

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Building 100



-  - Metal Window Components
-  - Wood Transom
-  - Wood Beam
-  - Wood Wall Trim above Windows
-  - Wood Fascia



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

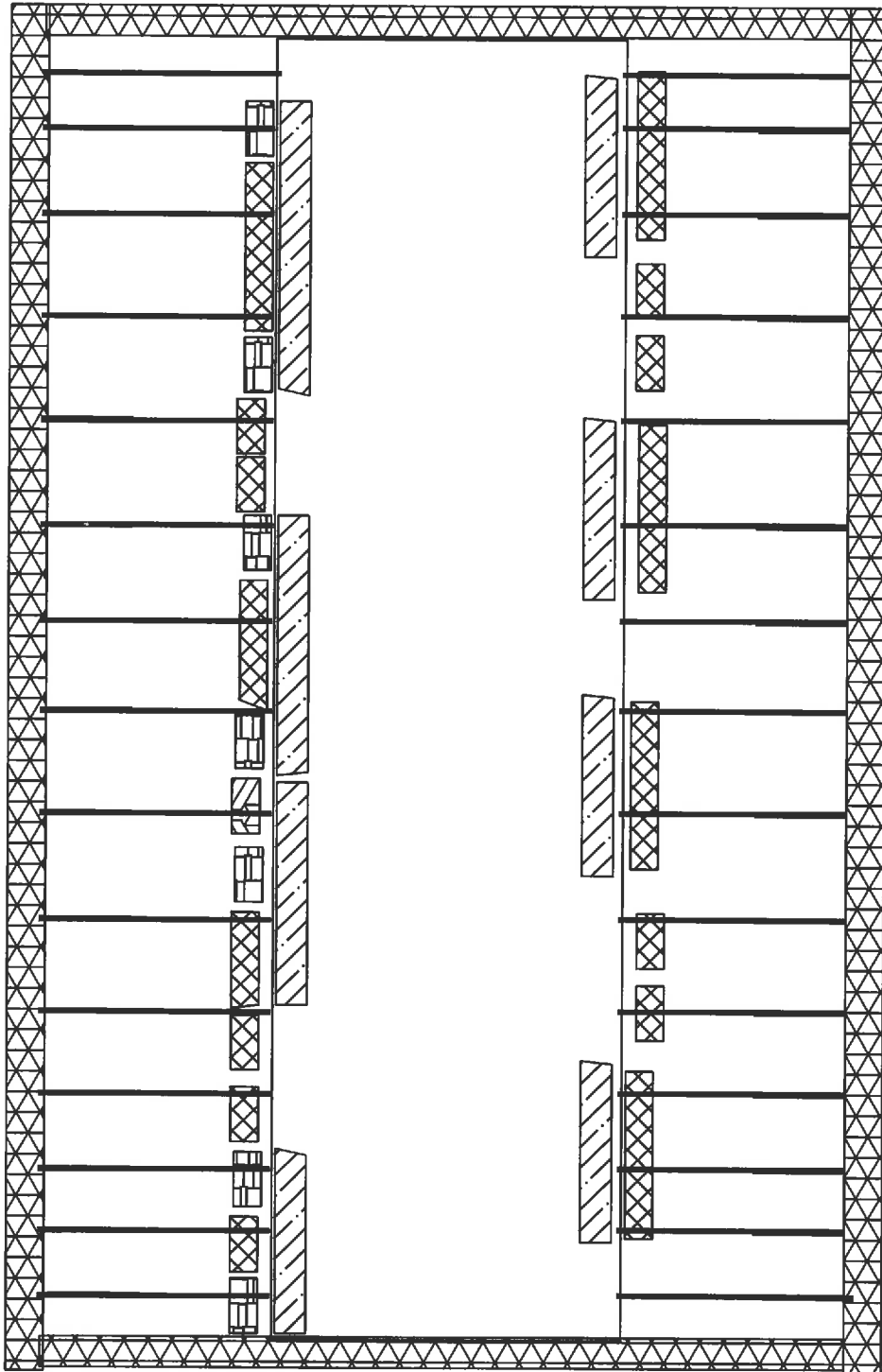








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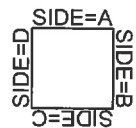
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 200



-  - Metal Window Components
-  - Wood Transom
-  - Wood Beam
-  - Wood Wall Trim above Windows
-  - Wood Fascia
-  - Metal Vent



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

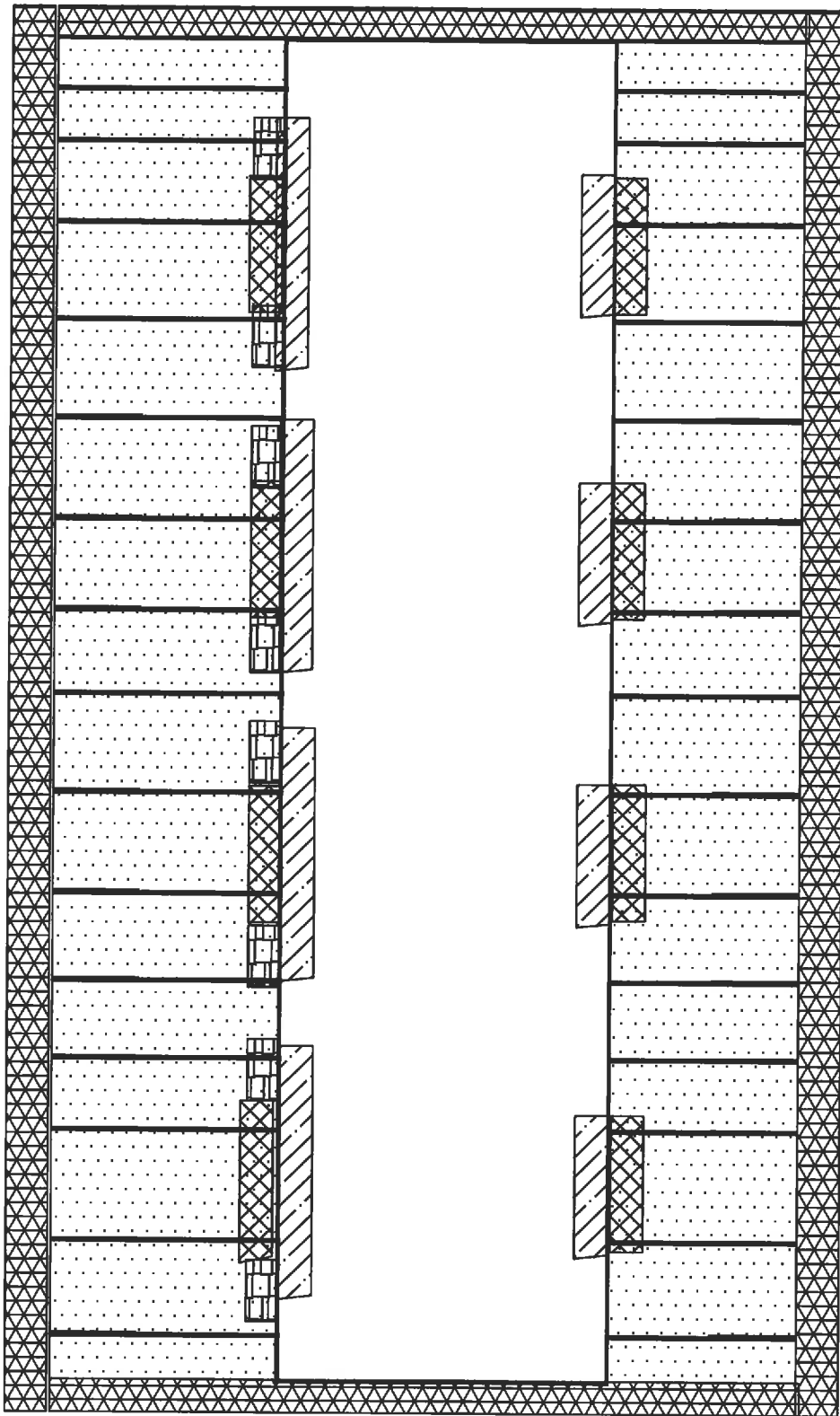


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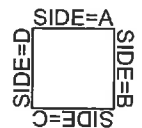
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 300



-  - Metal Window Components
-  - Wood Transom
-  - Wood Beam
-  - Wall Trim above Windows
-  - Wood Fascia
-  - Wood Overhang



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

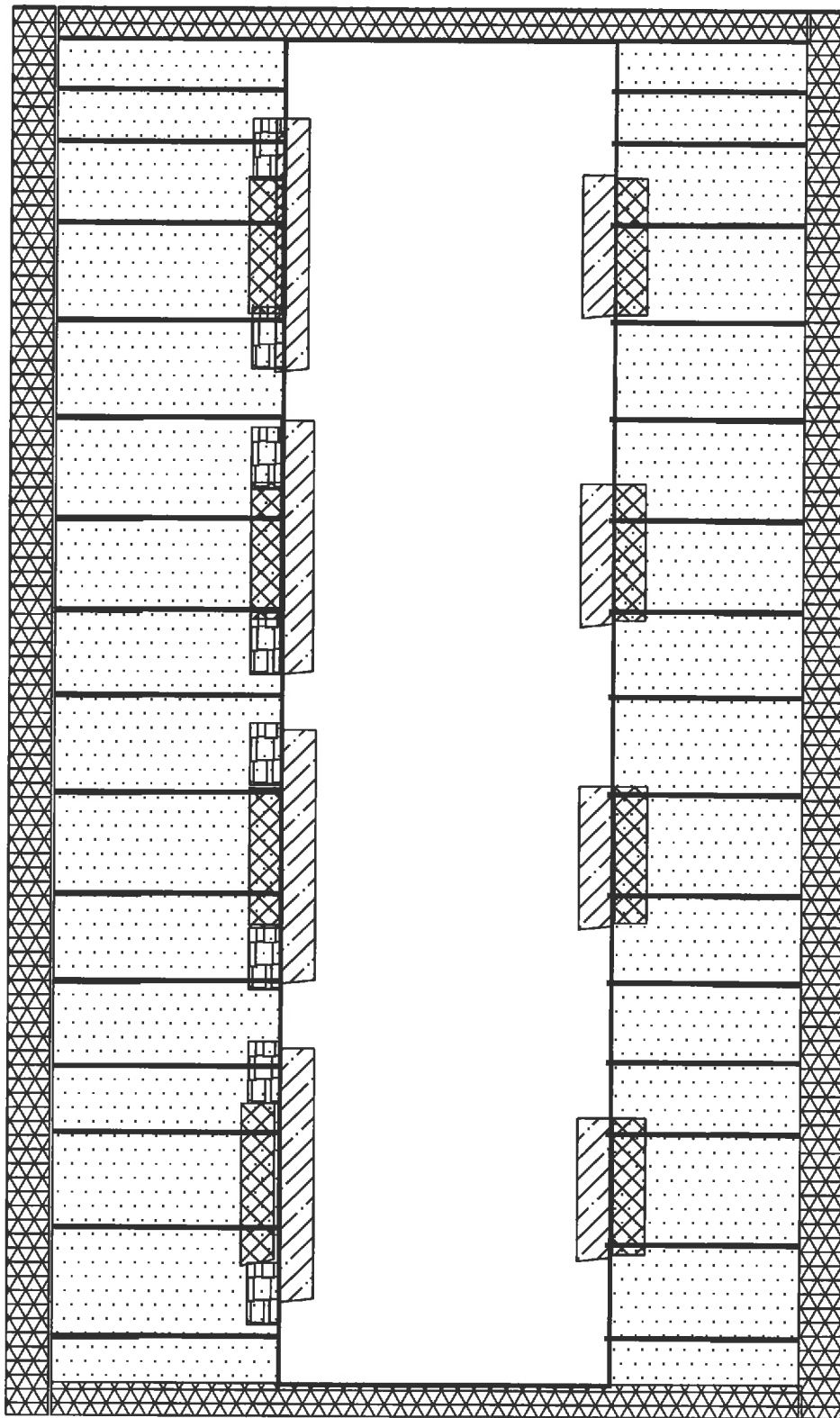








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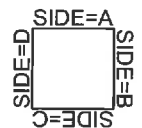
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 400



-  - Metal Window Components
-  - Wood Transom
-  - Wood Beam
-  - Wood Wall Trim above Windows
-  - Wood Fascia
-  - Wood Overhang



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

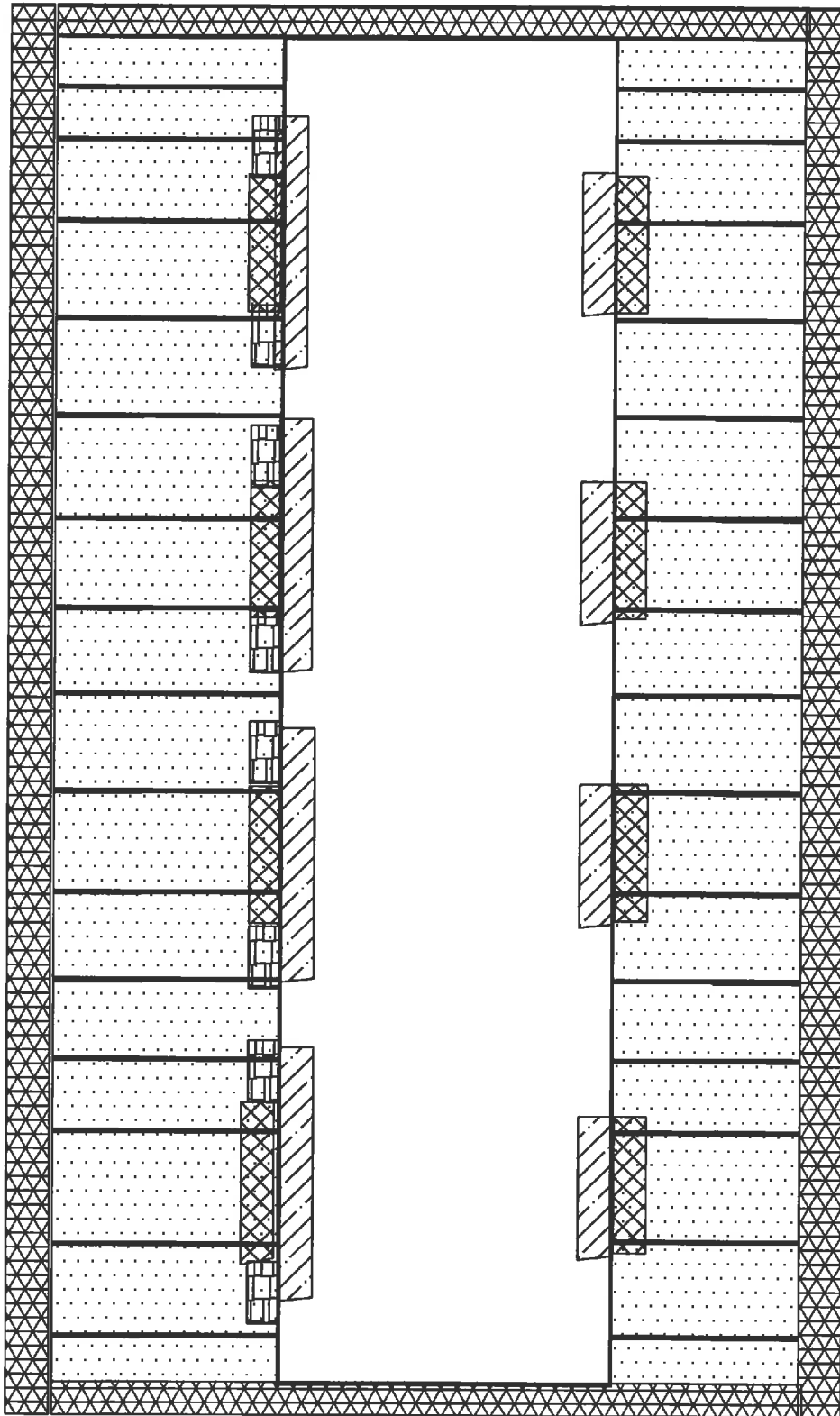


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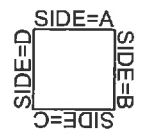
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 500



-  - Metal Window Components
-  - Wood Transom
-  - Wood Beam
-  - Wood Wall Trim above Windows
-  - Wood Fascia
-  - Wood Overhang



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified

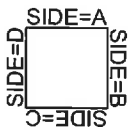
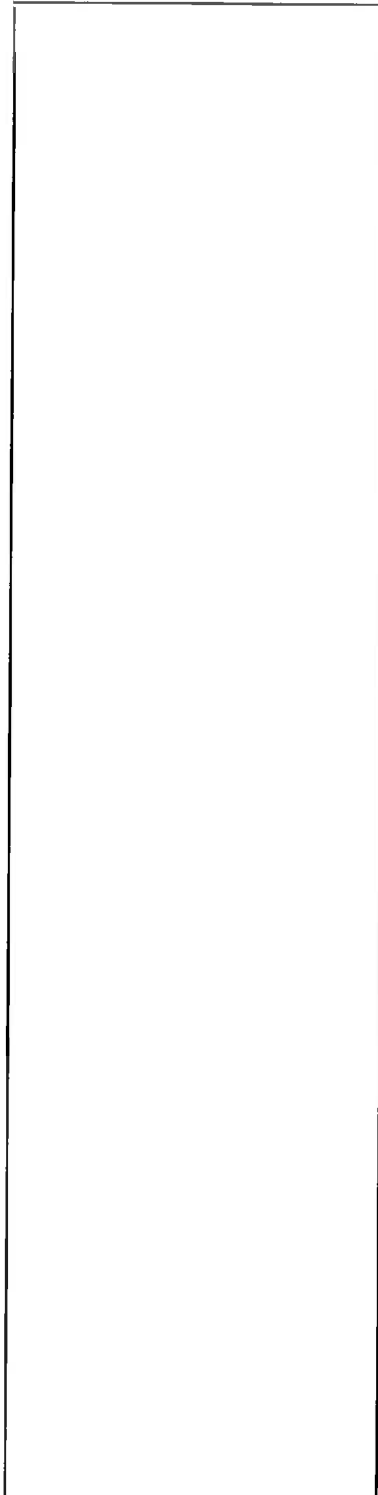


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Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Building 600



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: No Lead-Based Paint/Glaze Identified

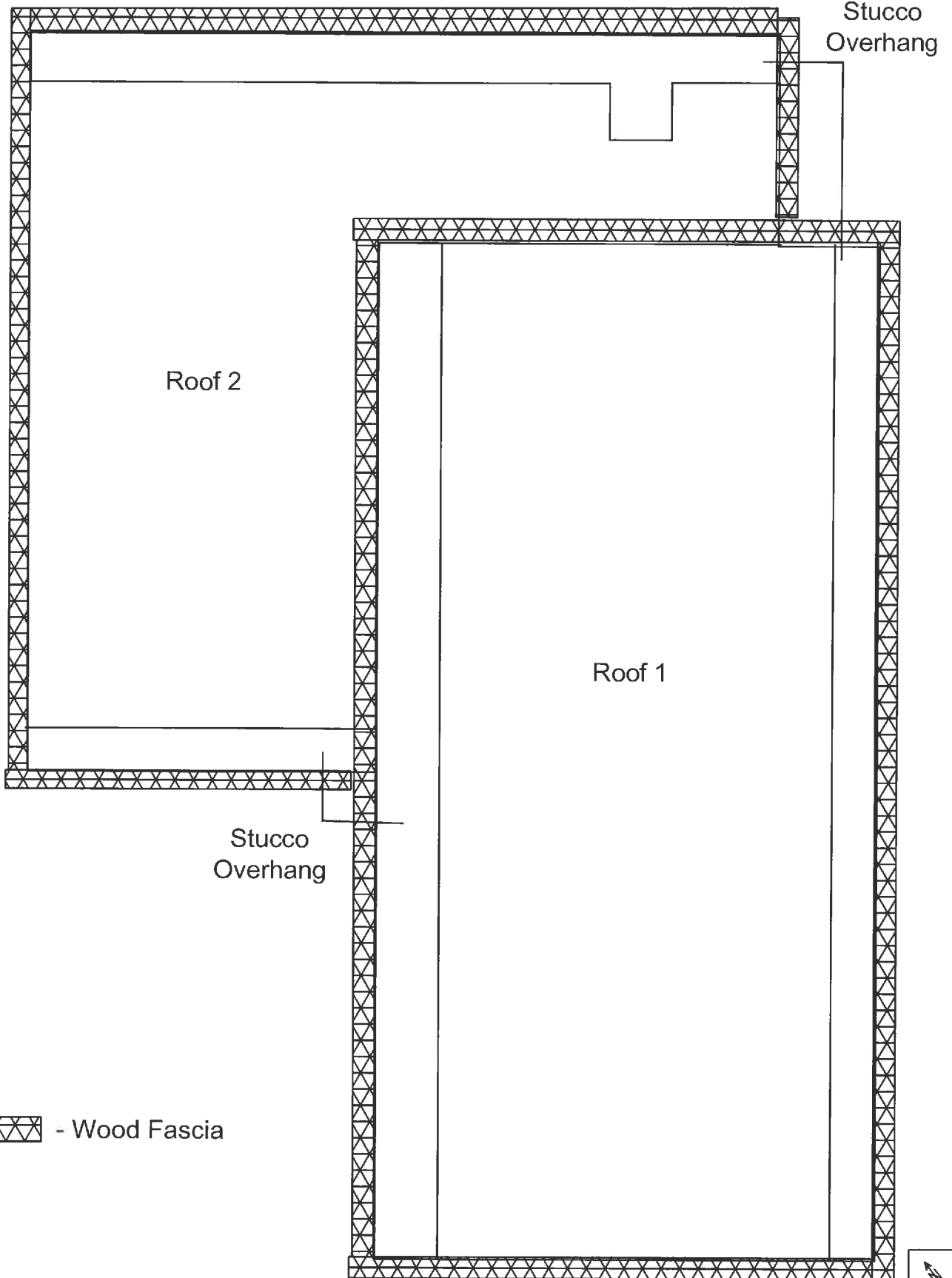


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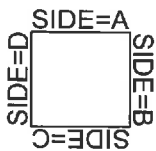
Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Multi-Purpose Building



 - Wood Fascia



Client: Little Lake City SD

Project#: 18-Z0187-0030

Info: Lead-Based Paint/Glaze Identified



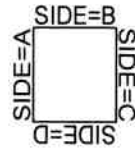
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Site: Studebaker ES - Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Portable

Media Center



Client: Little Lake City SD

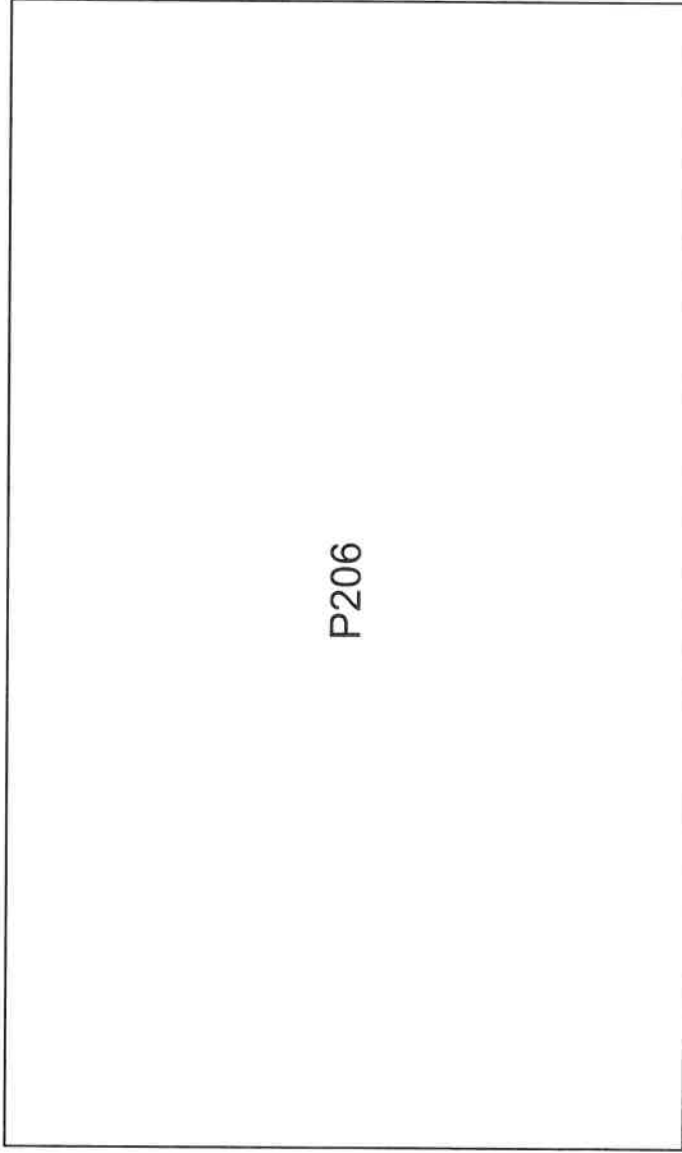
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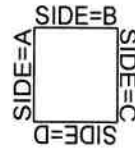
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Site: Studebaker ES-Roofing and Painting Project
11800 Halcourt Avenue
Address: Norwalk, California 90650

Portable



P206



Client: Little Lake City SD

Project #: 18-Z0187-0030

Info: No Lead-Based Paint/Glazed Identified

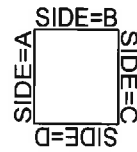


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Site: Studebaker ES-Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

Portable

P207



Client: Little Lake City SD

Project #: 18-Z0187-0030

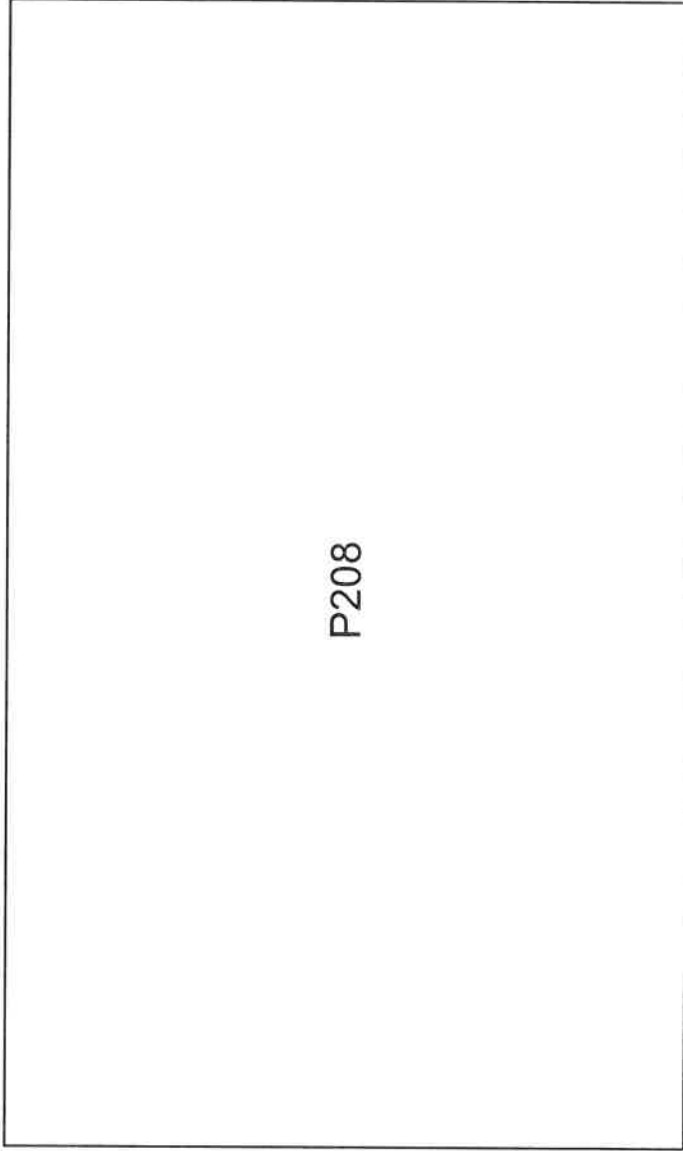
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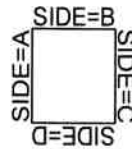
Site: Stuebaker ES-Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Portable



P208



Client: Little Lake City SD

Project #: 18-Z0187-0030

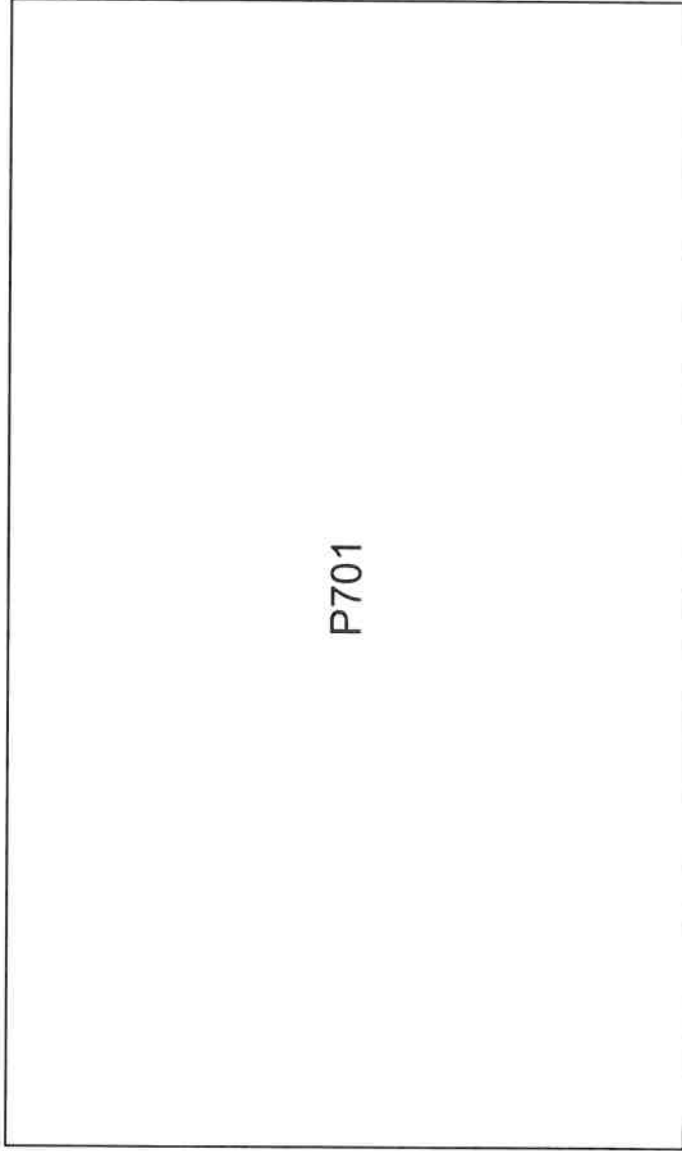
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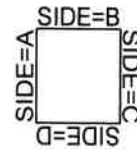
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES-Roofing and Painting Project
11800 Halcourt Avenue
Address: Norwalk, California 90650

Portable



P701



Client: Little Lake City SD

Project #: 18-Z0187-0030

Info: No Lead-Based Paint/Glazed Identified

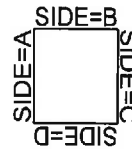


EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES-Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

Portable

P702



Client: Little Lake City SD

Project #: 18-Z0187-0030

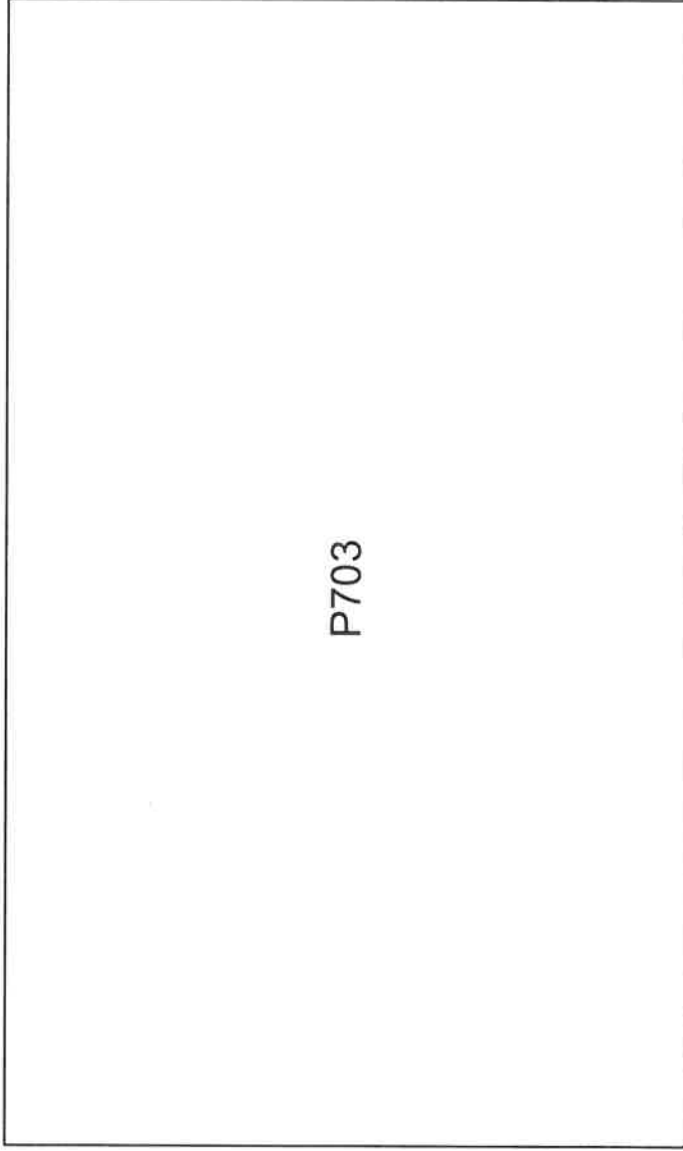
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HEALTH & SAFETY SIMPLIFIED

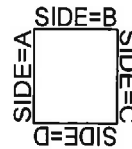
Site: Studebaker ES-Roofing and Painting Project
Address: 11800 Halcourt Avenue
Norwalk, California 90650

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Portable



P703



Client: Little Lake City SD

Project #: 18-Z0187-0030

Info: No Lead-Based Paint/Glazed Identified

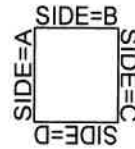
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES-Roofing and Painting Project
11800 Halcourt Avenue
Address: Norwalk, California 90650

Drawing Not to Scale - © 2012

Portable

P704



Client: Little Lake City SD

Project #: 18-Z0187-0030

Info: No Lead-Based Paint/Glazed Identified



EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Studebaker ES-Roofing and Painting Project
Address: 11800 Halcourt Avenue
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APPENDIX B – XRF SUMMARY RESULTS

Little Lake City School District
Studebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK Error
1	3/5/18	Paint			Shutter calibrate					1.34	0	0.25	0
2	3/5/18	Paint			Calibrate				Positive	1.6	0.5	1.6	2
3	3/5/18	Paint			Calibrate				Positive	1.4	0.4	1.4	1.9
4	3/5/18	Paint			Calibrate				Positive	1.8	0.8	1.8	1.3
5	3/5/18	Paint	Portable 206	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02
6	3/5/18	Paint	Portable 206	Exterior	Wall	Wood	B	Intact	Negative	0	0.02	0	0.02
7	3/5/18	Paint	Portable 206	Exterior	Wall	Wood	C	Poor	Negative	0	0.02	0	0.02
8	3/5/18	Paint	Portable 206	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	0	0.02
9	3/5/18	Paint	Portable 206	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02
10	3/5/18	Paint	Portable 206	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02
11	3/5/18	Paint	Portable 206	Exterior	Door frame trim	Wood	B	Intact	Negative	0	0.02	0	0.02
12	3/5/18	Paint	Portable 206	Exterior	Hang rack	Wood	B	Intact	Negative	0	0.02	0	0.02
13	3/5/18	Paint	Portable 206	Exterior	Frame	Metal	B	Intact	Negative	0.02	0.09	0.02	0.23
14	3/5/18	Paint	Portable 206	Exterior	Overhang	Metal	B	Intact	Negative	0	0.02	0	0.02
15	3/5/18	Paint	Portable 206	Exterior	Fascia	Metal	C	Intact	Negative	0	0.02	0	0.02

Little Lake City School District
Studebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
16	3/5/18	Paint	Portable 206	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	0.25	2.78
17	3/5/18	Paint	Portable 206	Exterior	Base	Metal	C	Intact	Negative	0	0.02	0	0.02	0.5	1.8
18	3/5/18	Paint	Portable 206	Exterior	Base	Concrete	C	Intact	Negative	0	0.02	0	0.02	0.6	0.6
19	3/5/18	Paint	Portable 206	Exterior	HVAC unit	Metal	D	Intact	Negative	0.03	0.08	0.03	0.08	-0.25	2.04
20	3/5/18	Paint	Portable 206	Exterior	Conduit	Metal	D	Intact	Negative	0.12	0.24	0.12	0.24	-0.33	2.68
21	3/5/18	Paint	Portable 206	Exterior	Electrical box	Metal	D	Intact	Negative	0	0.02	0	0.02	0.4	2.4
22	3/5/18	Paint	Portable 206	Exterior	Electrical unit	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.31	2.28
23	3/5/18	Paint	Portable 206	Exterior	Gutter	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.02	1.6
24	3/5/18	Paint	Portable 206	Exterior	Downspout	Metal	D	Intact	Negative	0.04	0.16	0.04	0.16	-0.14	1.59
25	3/5/18	Paint	Portable 206	Exterior	Pole	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.32	1.29
26	3/5/18	Paint	Portable 206	Exterior	Pipe	PVC	A	Intact	Negative	0	0.02	0	0.02	-0.53	1.86
27	3/5/18	Paint	Portable 207	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02	0.11	1.29
28	3/5/18	Paint	Portable 207	Exterior	Wall	Wood	B	Fair	Negative	0	0.02	0	0.02	0.2	1.62
29	3/5/18	Paint	Portable 207	Exterior	Wall	Wood	C	Intact	Negative	0.01	0.07	0.01	0.07	-0.23	1.13
30	3/5/18	Paint	Portable 207	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.08	1.46

Little Lake City School District
Stuebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK	PbK Error
31	3/5/18	Paint	Portable 207	Exterior	Door	Metal	B	Intact	Negative	0	0	0.02	-0.38	2.39
32	3/5/18	Paint	Portable 207	Exterior	Door frame	Metal	B	Intact	Negative	0	0	0.02	0.2	2.74
33	3/5/18	Paint	Portable 207	Exterior	Door frame trim	Wood	B	Intact	Negative	0	0	0.02	0.5	1.2
34	3/5/18	Paint	Portable 207	Exterior	Hang rack	Wood	B	Intact	Negative	0	0	0.02	0.6	1.1
35	3/5/18	Paint	Portable 207	Exterior	Frame	Metal	B	Intact	Negative	0	0	0.02	-0.03	2.62
36	3/5/18	Paint	Portable 207	Exterior	Overhang	Metal	B	Intact	Negative	0	0	0.02	-0.03	2.56
37	3/5/18	Paint	Portable 207	Exterior	Fascia	Metal	C	Intact	Negative	0	0	0.02	-0.33	2.64
38	3/5/18	Paint	Portable 207	Exterior	Flashing	Metal	C	Intact	Negative	0	0	0.02	0.08	2.46
39	3/5/18	Paint	Portable 207	Exterior	Base	Metal	C	Intact	Negative	0	0	0.02	-0.27	2.48
40	3/5/18	Paint	Portable 207	Exterior	Base	Concrete	C	Poor	Negative	0	0	0.02	0.9	0.3
41	3/5/18	Paint	Portable 207	Exterior	HVAC unit	Metal	D	Intact	Negative	0.01	0.01	0.04	0.28	2.12
42	3/5/18	Paint	Portable 207	Exterior	Conduit	Metal	D	Intact	Negative	0.07	0.07	0.23	0.3	2.58
43	3/5/18	Paint	Portable 207	Exterior	Electrical box	Metal	D	Intact	Negative	0	0	0.02	0.8	2.6
44	3/5/18	Paint	Portable 207	Exterior	Gutter	Metal	D	Intact	Negative	0	0	0.02	0.01	1.68
45	3/5/18	Paint	Portable 207	Exterior	Downspout	Metal	D	Intact	Negative	0	0	0.02	0.05	1.42

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
46	3/5/18	Paint	Portable 207	Exterior	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.05	2.54
47	3/5/18	Paint	Portable 207	Exterior	Electrical unit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.05	2.36
48	3/5/18	Paint	Portable 208	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02	0.11	1.64
49	3/5/18	Paint	Portable 208	Exterior	Wall	Wood	B	Fair	Negative	0	0.02	0	0.02	0.13	1.54
50	3/5/18	Paint	Portable 208	Exterior	Wall	Wood	C	Intact	Negative	0	0.02	0	0.02	0.07	1.6
51	3/5/18	Paint	Portable 208	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.33	1.7
52	3/5/18	Paint	Portable 208	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.12	2.45
53	3/5/18	Paint	Portable 208	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.84	2.56
54	3/5/18	Paint	Portable 208	Exterior	Door frame trim	Wood	B	Intact	Negative	0	0.02	0	0.02	0.5	1.2
55	3/5/18	Paint	Portable 208	Exterior	Floor stripe	Concrete	B	Fair	Negative	0	0.02	0	0.02	0.03	0.97
56	3/5/18	Paint	Portable 208	Exterior	Hang rack	Wood	B	Intact	Negative	0	0.02	0	0.02	0.13	1.27
57	3/5/18	Paint	Portable 208	Exterior	Frame	Metal	B	Intact	Negative	0	0.02	0	0.02	0.25	1.2
58	3/5/18	Paint	Portable 208	Exterior	Fascia	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.57	2.7
59	3/5/18	Paint	Portable 208	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.3	2.64
60	3/5/18	Paint	Portable 208	Exterior	Conduit	Metal	C	Intact	Negative	0.12	0.2	0.12	0.2	0.22	2.73

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
61	3/5/18	Paint	Portable 208	Exterior	Electrical box	Metal	C	Intact	Negative	0	0.02	0	0.02	0.3	1.05
62	3/5/18	Paint	Portable 208	Exterior	Base	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.58	2.33
63	3/5/18	Paint	Portable 208	Exterior	Base tile	Ceramic	C	Poor	Negative	0	0.02	0	0.02	0.15	0.82
64	3/5/18	Paint	Portable 208	Exterior	HVAC unit	Metal	D	Intact	Negative	0.02	0.08	0.02	0.08	0.4	2.4
65	3/5/18	Paint	Portable 208	Exterior	Gutter	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.09	1.7
66	3/5/18	Paint	Portable 208	Exterior	Downspout	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.13	1.49
67	3/5/18	Paint	Portable 208	Exterior	Pipe	Metal	A	Intact	Negative	0	0.02	0	0.02	0.27	2.26
68	3/5/18	Paint	Portable 208	Exterior	Pipe	PVC	A	Intact	Negative	0	0.02	0	0.02	-0.01	1.6
69	3/5/18	Paint	Portable 208	Exterior	Overhang	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.18	1.45
70	3/5/18	Paint	Campus	Playground 1	Shed	Wood		Intact	Negative	0	0.02	0	0.02	-0.3	1.67
71	3/5/18	Paint	Campus	Playground 1	Shed	Wood		Intact	Negative	0	0.02	0	0.02	-0.03	1.67
72	3/5/18	Paint	Campus	Playground 1	Canopy	Metal		Intact	Negative	0	0.02	0	0.02	0.12	2.94
73	3/5/18	Paint	Campus	Playground 1	Bench	Metal		Intact	Negative	0	0.02	0	0.02	-0.22	0.74
74	3/5/18	Paint	Campus	Playground 1	Bench	Metal		Intact	Negative	0	0.02	0	0.02	-0.11	2.51
75	3/5/18	Paint	Campus	Playground 1	Bench	Concrete		Intact	Negative	0	0.02	0	0.02	0.4	0.7

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
76	3/5/18	Paint	Campus	Playground 1	Bench	Metal		Intact	Negative	0	0.02	-0.53
77	3/5/18	Paint	Campus	Playground 1	Pole	Metal		Intact	Negative	0	0.02	0.4
78	3/5/18	Paint	Campus	Playground 1	Floor stripe	Concrete		Intact	Negative	0	0.02	-0.14
79	3/5/18	Paint	Campus	Playground 1	Play equipment	Metal		Intact	Negative	0	0.02	-0.09
80	3/5/18	Paint	Campus	Playground 1	Arch	Metal		Intact	Negative	0	0.02	0.8
81	3/5/18	Paint	Campus	Playground 1	Arch	Metal		Fair	Negative	0	0.02	-0.4
82	3/5/18	Paint	Campus	Playground 1	Arch	Metal		Poor	Negative	0	0.02	-0.22
83	3/5/18	Paint	Campus	Playground 1	Ladder	Metal		Intact	Negative	0	0.02	-0.29
84	3/5/18	Paint	Campus	Playground 1	Stair	Metal		Intact	Negative	0	0.02	-0.28
85	3/5/18	Paint	Campus	Playground 2	Pole	Metal		Intact	Negative	0	0.02	-0.03
86	3/5/18	Paint	Campus	Playground 2	Ladder	Metal		Intact	Negative	0	0.02	0.02
87	3/5/18	Paint	Campus	Playground 2	Bar	Metal		Poor	Negative	0	0.02	0.13
88	3/5/18	Paint	Campus	Playground 2	Beam	Metal		Intact	Null	0	0.02	1.2
89	3/5/18	Paint	Campus	Playground 2	Beam	Metal		Intact	Negative	0	0.02	0.4
90	3/5/18	Paint	Campus	Playground 2	Floor stripe	Concrete		Fair	Negative	0	0.02	0.2

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
91	3/5/18	Paint	Campus	Playground 2	Bench	Metal		Intact	Negative	0	0.02	0	0.02	-0.35	2.52
92	3/5/18	Paint	Campus	Playground 2	Bench	Metal		Intact	Negative	0	0.02	0	0.02	-0.47	2.23
93	3/5/18	Paint	Campus	Playground 2	Pole	Metal		Intact	Negative	0	0.02	0	0.02	0.19	2.75
94	3/5/18	Paint	Campus	Handball court	Wall	Wood		Intact	Negative	0	0.02	0	0.02	-0.2	1.46
95	3/5/18	Paint	Campus	Handball court	Wall	Metal		Intact	Negative	0	0.02	0	0.02	0.17	2.25
96	3/5/18	Paint	Campus	Handball court	Floor stripe	Concrete		Poor	Negative	0	0.02	0	0.02	-0.05	1.05
97	3/5/18	Paint	Campus	Field	Goal post	Metal		Intact	Negative	0	0.02	0	0.02	-0.54	1.11
98	3/5/18	Paint	Campus	Field	Canopy	Metal		Intact	Negative	0	0.02	0	0.02	-0.09	2.7
99	3/5/18	Paint	Campus	Field	Bench	Metal		Intact	Negative	0	0.02	0	0.02	-0.47	2.58
100	3/5/18	Paint	Campus	Field	Bench	Metal		Intact	Negative	0	0.02	0	0.02	0.9	2.8
101	3/5/18	Paint	Campus	Basketball court	Pole	Metal		Poor	Negative	0.21	0.33	0.21	0.33	0.5	3
102	3/5/18	Paint	Campus	Basketball court	Floor stripe	Concrete		Poor	Negative	0	0.02	0	0.02	0.4	0.7
103	3/5/18	Paint	Campus	Basketball court	Pole	Metal		Poor	Negative	0.13	0.23	0.13	0.23	0.5	3
104	3/5/18	Paint	Campus	Basketball court	Pole	Metal		Poor	Negative	0.27	0.34	0.27	0.34	0.22	2.94
105	3/5/18	Paint	Campus	Storage bin	Wall	Metal		Intact	Negative	0	0.02	0	0.02	-0.27	2.68

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK	PbK Error
106	3/5/18	Paint	Campus	Storage bin	Bench	Fiberglass		Fair	Negative	0.05	0.08	0.05	-0.32	2.18
107	3/5/18	Paint	Media Center	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	0	-0.44	1.91
108	3/5/18	Paint	Media Center	Exterior	Wall	Wood	B	Peeling	Negative	0	0.02	0	-0.24	2.17
109	3/5/18	Paint	Media Center	Exterior	Wall	Wood	C	Intact	Negative	0	0.02	0	-0.62	1.35
110	3/5/18	Paint	Media Center	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	0	-0.18	2.09
111	3/5/18	Paint	Media Center	Exterior	Frame	Metal	B	Intact	Negative	0	0.02	0	0.07	2.59
112	3/5/18	Paint	Media Center	Exterior	Base	Metal	B	Fair	Negative	0	0.02	0	-0.3	1.97
113	3/5/18	Paint	Media Center	Exterior	Conduit	Metal	B	Intact	Negative	0	0.02	0	-0.56	2.98
114	3/5/18	Paint	Media Center	Exterior	Electrical box	Metal	B	Intact	Negative	0	0.02	0	-0.34	1.94
115	3/5/18	Paint	Media Center	Exterior	Overhang	Wood	B	Intact	Negative	0	0.02	0	-0.13	1.76
116	3/5/18	Paint	Media Center	Exterior	Fascia	Metal	B	Intact	Negative	0.01	0.04	0.01	-0.44	2.87
117	3/5/18	Paint	Media Center	Exterior	Flashing	Metal	B	Intact	Negative	0	0.02	0	0.23	2.98
118	3/5/18	Paint	Media Center	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.01	2.77
119	3/5/18	Paint	Media Center	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0	2.62
120	3/5/18	Paint	Media Center	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0	-0.37	2.6

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
121	3/5/18	Paint	Media Center	Exterior	Door frame trim	Wood	D	Intact	Negative	0	0.02	0.5
122	3/5/18	Paint	Media Center	Exterior	Hand rail	Metal	D	Fair	Negative	0	0.02	-0.45
123	3/5/18	Paint	Media Center	Exterior	Bench	Metal	D	Intact	Negative	0	0.02	0.04
124	3/5/18	Paint	Portable 701	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	-0.28
125	3/5/18	Paint	Portable 701	Exterior	Wall	Wood	B	Intact	Negative	0	0.02	-0.39
126	3/5/18	Paint	Portable 701	Exterior	Wall	Wood	C	Intact	Negative	0	0.02	-0.59
127	3/5/18	Paint	Portable 701	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	-0.77
128	3/5/18	Paint	Portable 701	Exterior	Gate	Wood	D	Intact	Negative	0	0.02	-0.18
129	3/5/18	Paint	Portable 701	Exterior	Base	Metal	D	Intact	Negative	0	0.02	-0.38
130	3/5/18	Paint	Portable 701	Exterior	Frame	Metal	D	Intact	Negative	0	0.02	0.25
131	3/5/18	Paint	Portable 701	Exterior	HVAC unit	Metal	D	Intact	Negative	0.01	0.02	-0.03
132	3/5/18	Paint	Portable 701	Exterior	Electrical box	Metal	D	Intact	Negative	0	0.02	-0.03
133	3/5/18	Paint	Portable 701	Exterior	Conduit	Metal	D	Intact	Negative	0.07	0.22	-0.4
134	3/5/18	Paint	Portable 701	Exterior	Electrical unit	Metal	D	Intact	Negative	0	0.02	0.12
135	3/5/18	Paint	Portable 701	Exterior	Overhang	Metal	D	Intact	Negative	0	0.02	-0.35

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
136	3/5/18	Paint	Portable 701	Exterior	Fascia	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.82	2.91
137	3/5/18	Paint	Portable 701	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.44	2.37
138	3/5/18	Paint	Portable 701	Exterior	Gutter	Metal	D	Intact	Negative	0	0.02	0	0.02	0.04	1.25
139	3/5/18	Paint	Portable 701	Exterior	Downspout	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.31	1.55
140	3/5/18	Paint	Portable 701	Exterior	Hang rack	Wood	D	Poor	Negative	0	0.02	0	0.02	0.29	1.65
141	3/5/18	Paint	Portable 701	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.72	2.58
142	3/5/18	Paint	Portable 701	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0	0.02	0.14	2.82
143	3/5/18	Paint	Portable 701	Exterior	Door frame trim	Wood	D	Intact	Negative	0	0.02	0	0.02	0.1	1.38
144	3/5/18	Paint	Portable 701	Exterior	Roof	Metal		Intact	Negative	0.01	0.05	0.01	0.05	-0.22	1.98
145	3/5/18	Paint	Portable 702	Exterior	Wall	Wood	A	Intact	Negative	0	0.02	0	0.02	-0.22	1.66
146	3/5/18	Paint	Portable 702	Exterior	Wall	Wood	B	Intact	Negative	0	0.02	0	0.02	0.03	1.6
147	3/5/18	Paint	Portable 702	Exterior	Wall	Wood	C	Intact	Negative	0	0.02	0	0.02	0.06	1.78
148	3/5/18	Paint	Portable 702	Exterior	Wall	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.21	1.84
149	3/5/18	Paint	Portable 702	Exterior	Frame	Metal	D	Intact	Negative	0.01	0.04	0.01	0.04	-0.87	2.74
150	3/5/18	Paint	Portable 702	Exterior	Conduit	Metal	D	Intact	Negative	0.1	0.22	0.1	0.22	0.01	2.76

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL Error	PbK Error
151	3/5/18	Paint	Portable 702	Exterior	Electrical box	Metal	D	Intact	Negative	0	0.02	-0.81
152	3/5/18	Paint	Portable 702	Exterior	HVAC unit	Metal	D	Intact	Negative	0	0.02	0.06
153	3/5/18	Paint	Portable 702	Exterior	Overhang	Wood	D	Intact	Negative	0	0.02	-0.58
154	3/5/18	Paint	Portable 702	Exterior	Gutter	Metal	D	Intact	Null	0	0.05	-1.77
155	3/5/18	Paint	Portable 702	Exterior	Gutter	Metal	D	Intact	Negative	0	0.02	-0.09
156	3/5/18	Paint	Portable 702	Exterior	Downspout	Metal	D	Intact	Negative	0	0.02	0.1
157	3/5/18	Paint	Portable 702	Exterior	Fascia	Metal	C	Intact	Negative	0	0.02	-0.12
158	3/5/18	Paint	Portable 702	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	-0.19
159	3/5/18	Paint	Portable 702	Exterior	Roof	Metal		Intact	Negative	0	0.02	-0.51
160	3/5/18	Paint	Portable 702	Exterior	HVAC unit	Metal	B	Intact	Negative	0	0.02	0.02
161	3/5/18	Paint	Portable 702	Exterior	Electrical unit	Metal	B	Intact	Negative	0	0.02	-0.46
162	3/5/18	Paint	Portable 702	Exterior	Hang rack	Wood	D	Poor	Negative	0	0.02	0.27
163	3/5/18	Paint	Portable 702	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0.18
164	3/5/18	Paint	Portable 702	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0.01
165	3/5/18	Paint	Portable 702	Exterior	Door frame trim	Wood	D	Intact	Negative	0	0.02	0.02

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK Error	PbK
166	3/5/18	Paint	Portable 702	Exterior	Rail	Metal	D	Fair	Negative	0	0	0.02	-0.38	2.43
167	3/5/18	Paint	Portable 703	Exterior	Wall	Wood	A	Intact	Negative	0	0	0.02	-0.38	1.97
168	3/5/18	Paint	Portable 703	Exterior	Wall	Wood	B	Intact	Negative	0	0	0.02	-0.37	1.72
169	3/5/18	Paint	Portable 703	Exterior	Wall	Wood	C	Intact	Negative	0	0	0.02	-0.38	1.76
170	3/5/18	Paint	Portable 703	Exterior	Wall	Wood	D	Intact	Negative	0	0	0.02	-0.48	1.58
171	3/5/18	Paint	Portable 703	Exterior	HVAC unit	Metal	B	Intact	Negative	0.01	0.01	0.03	-0.42	2.1
172	3/5/18	Paint	Portable 703	Exterior	Conduit	Metal	B	Intact	Negative	0	0	0.02	-0.26	2.7
173	3/5/18	Paint	Portable 703	Exterior	Electrical box	Metal	B	Intact	Negative	0	0	0.02	-0.75	2.68
174	3/5/18	Paint	Portable 703	Exterior	Overhang	Wood	D	Intact	Negative	0	0	0.02	-0.02	1.8
175	3/5/18	Paint	Portable 703	Exterior	Frame	Metal	D	Intact	Negative	0	0	0.02	-0.25	2.81
176	3/5/18	Paint	Portable 703	Exterior	Fascia	Metal	C	Intact	Negative	0	0	0.03	-0.27	2.85
177	3/5/18	Paint	Portable 703	Exterior	Flashing	Metal	C	Intact	Negative	0	0	0.02	-0.44	2.03
178	3/5/18	Paint	Portable 703	Exterior	Roof	Metal		Intact	Negative	0	0	0.02	-0.05	3.08
179	3/5/18	Paint	Portable 703	Exterior	Gutter	Metal	D	Intact	Negative	0	0	0.02	-0.04	1.51
180	3/5/18	Paint	Portable 703	Exterior	Downspout	Metal	D	Intact	Negative	0	0	0.02	-0.35	1.65

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK Error	PbK
181	3/5/18	Paint	Portable 703	Exterior	Door	Metal	D	Intact	Negative	0	0	0.02	-0.47	2.16
182	3/5/18	Paint	Portable 703	Exterior	Door frame	Metal	D	Intact	Negative	0	0	0.02	-0.11	1.04
183	3/5/18	Paint	Portable 703	Exterior	Door frame trim	Metal	D	Intact	Negative	0	0	0.02	0.21	1.21
184	3/5/18	Paint	Portable 703	Exterior	Hand rail	Metal	D	Intact	Negative	0	0	0.02	-0.22	2.71
185	3/5/18	Paint	Portable 703	Exterior	Ramp	Metal	D	Fair	Negative	0.01	0.02	0.02	0.07	0.58
186	3/5/18	Paint	Portable 703	Exterior	Hang rack	Wood	D	Poor	Negative	0	0	0.02	0.13	1.19
187	3/5/18	Paint	Portable 704	Exterior	Wall	Wood	A	Intact	Negative	0	0	0.02	-0.7	1.57
188	3/5/18	Paint	Portable 704	Exterior	Wall	Wood	B	Intact	Negative	0	0	0.02	-0.59	1.81
189	3/5/18	Paint	Portable 704	Exterior	Wall	Wood	C	Intact	Negative	0	0	0.02	-0.7	1.76
190	3/5/18	Paint	Portable 704	Exterior	Wall	Wood	D	Intact	Negative	0	0	0.02	-1.25	1.94
191	3/5/18	Paint	Portable 704	Exterior	Frame	Metal	B	Intact	Negative	0	0	0.02	-0.27	2.88
192	3/5/18	Paint	Portable 704	Exterior	HVAC unit	Metal	B	Intact	Negative	0.01	0.03	0.03	0.5	2.6
193	3/5/18	Paint	Portable 704	Exterior	Electrical box	Metal	B	Intact	Negative	0.08	0.16	0.16	0.06	2.08
194	3/5/18	Paint	Portable 704	Exterior	Electrical box	Metal	B	Intact	Negative	0	0	0.02	0.4	2.5
195	3/5/18	Paint	Portable 704	Exterior	Pipe	Metal	B	Intact	Negative	0	0	0.02	-0.82	0.81

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK	PbK Error
196	3/5/18	Paint	Portable 704	Exterior	Overhang	Wood	B	Intact	Negative	0	0	0.02	-0.37	1.23
197	3/5/18	Paint	Portable 704	Exterior	Fascia	Metal	C	Intact	Negative	0	0	0.02	-0.53	2.88
198	3/5/18	Paint	Portable 704	Exterior	Flashing	Metal	C	Intact	Negative	0	0	0.02	-1.97	2.66
199	3/5/18	Paint	Portable 704	Exterior	Gutter	Metal	B	Intact	Negative	0	0	0.02	-0.12	2.03
200	3/5/18	Paint	Portable 704	Exterior	Downspout	Metal	B	Intact	Negative	0	0	0.02	-0.63	2.01
201	3/5/18	Paint	Portable 704	Exterior	Hang rack	Metal	D	Poor	Negative	0	0	0.02	0.4	1.4
202	3/5/18	Paint	Portable 704	Exterior	Door	Metal	D	Intact	Negative	0	0	0.02	-0.31	2.53
203	3/5/18	Paint	Portable 704	Exterior	Door frame	Metal	D	Intact	Negative	0	0	0.02	0.4	2.8
204	3/5/18	Paint	Portable 704	Exterior	Door frame trim	Wood	D	Intact	Negative	0	0	0.02	0.22	1.4
205	3/5/18	Paint	Portable 704	Exterior	Hand rail	Metal	D	Fair	Negative	0	0	0.02	0.09	2.82
206	3/5/18	Paint	Portable 704	Exterior	Ramp	Metal	D	Intact	Negative	0.01	0.03	0.01	-0.54	2.76
207	3/5/18	Paint	Campus	Exterior	School sign	Metal		Intact	Negative	-0.46	0.73	0.01	-0.46	0.73
208	3/5/18	Paint	Campus	Exterior	Sign base	Concrete		Fair	Negative	0.04	0.06	0.04	0.05	0.72
209	3/5/18	Paint	Campus	Exterior	Curb (red)	Concrete		Intact	Negative	0	0.02	0	-0.17	1
210	3/5/18	Paint	Campus	North parking	Curb (yellow)	Concrete		Intact	Positive	2.9	1.3	2.9	1.3	2.8

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
211	3/5/18	Paint	Campus	North parking	Curb (yellow)	Concrete		Intact	Positive	2.8	1.7	2.8	1.7	1.8	3.7
212	3/5/18	Paint	Campus	North parking	Floor stripe (yellow)	Concrete		Fair	Positive	0.8	0.2	0.8	0.2	0.9	0.7
213	3/5/18	Paint	Campus	North parking	Floor stripe (white)	Concrete		Poor	Negative	0	0.02	0	0.02	0.12	0.95
214	3/5/18	Paint	Campus	North parking	Curb (blue)	Concrete		Intact	Negative	0.01	0.02	0.01	0.02	0.17	0.88
215	3/5/18	Paint	Campus	North parking	Floor stripe (blue)	Concrete		Intact	Negative	0.01	0.02	0.01	0.02	-0.26	1.15
216	3/5/18	Paint	Campus	North parking	Flag pole	Metal		Poor	Negative	0.1	0.31	0.1	0.31	-0.58	2.73
217	3/5/18	Paint			Calibrate				Positive	1.8	0.6	1.8	0.6	1.1	3
218	3/5/18	Paint			Calibrate				Positive	1.6	0.8	1.6	0.8	0.9	4.3
219	3/5/18	Paint			Calibrate				Positive	1.5	0.5	1.5	0.5	0.8	2.8
220	3/6/18	Paint			Shutter calibrate					1.59	0	0.26	0	0	0
221	3/6/18	Paint			Calibrate				Positive	1.6	0.5	1.6	0.5	0.4	2.5
222	3/6/18	Paint			Calibrate				Positive	1.7	0.6	1.7	0.6	1	2.8
223	3/6/18	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	0.5	2.3
224	3/6/18	Paint	Portable 206	Exterior	Roof	Metal		Intact	Negative	0	0.02	0	0.02	-0.31	2.27
225	3/6/18	Paint	Portable 207	Exterior	Roof	Metal		Intact	Negative	-0.1	0.71	0.03	0.07	-0.1	0.71

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK Error	PbK
226	3/6/18	Paint	Portable 208	Exterior	Roof	Metal		Intact	Null	0	0	0.02	0.03	2.18
227	3/6/18	Paint	Portable 208	Exterior	Roof	Metal		Intact	Negative	0.01	0.01	0.02	-0.59	1.57
228	3/6/18	Paint	Covered walkway	Exterior	Ceiling	Metal		Intact	Negative	0.03	0.03	0.04	0.4	0.8
229	3/6/18	Paint	Covered walkway	Exterior	Beam	Metal		Intact	Positive	5.9	0.9	1.3	5.9	3.3
230	3/6/18	Paint	Covered walkway	Exterior	Roof	Metal		Poor	Negative	0.08	0.08	0.1	0.15	2.12
231	3/6/18	Paint	Covered walkway	Exterior	Electrical box	Metal		Intact	Negative	0	0	0.02	0.5	2.4
232	3/6/18	Paint	Covered walkway	Exterior	Pole	Metal		Intact	Negative	0.15	0.15	0.24	-0.16	1.93
233	3/6/18	Paint	Covered walkway	Exterior	Pole	Metal		Intact	Negative	0.06	0.06	0.11	0.5	2.2
234	3/6/18	Paint	Covered walkway	Exterior	Pole	Metal		Intact	Negative	0.15	0.15	0.1	0.16	0.72
235	3/6/18	Paint	Covered walkway	Exterior	Conduit	Metal		Intact	Negative	0	0	0.02	0.15	1.89
236	3/6/18	Paint	Covered walkway	Exterior	Beam	Metal		Intact	Positive	7.7	4.7	3.1	7.7	4
237	3/6/18	Paint	Covered walkway	Exterior	Gutter	Metal		Intact	Negative	0.01	0.01	0.02	0.21	1.64
238	3/6/18	Paint	Covered walkway	Exterior	Downspout	Metal		Intact	Negative	0.06	0.06	0.13	0.7	3
239	3/6/18	Paint	100 Building	Exterior	Wall	Brick	A	Intact	Negative	0	0	0.02	-0.22	1.01
240	3/6/18	Paint	100 Building	Exterior	Wall	Brick	B	Intact	Null	0	0	0.02	0.4	1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
241	3/6/18	Paint	100 Building	Exterior	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	-0.16	1.07
242	3/6/18	Paint	100 Building	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	0.02	0.82
243	3/6/18	Paint	100 Building	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.24	0.81
244	3/6/18	Paint	100 Building	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	-0.07	0.94
245	3/6/18	Paint	100 Building	Exterior	Window frame	Metal	A	Intact	Positive	2.5	1.3	2.5	1.3	2.4	3.6
246	3/6/18	Paint	100 Building	Exterior	Window sash	Metal	A	Intact	Positive	2.6	1.5	2.6	1.5	2	3.6
247	3/6/18	Paint	100 Building	Exterior	Window frame	Metal	B	Intact	Positive	1.9	0.9	1.9	0.9	2	3.7
248	3/6/18	Paint	100 Building	Exterior	Window sash	Metal	B	Intact	Positive	2.1	0.9	2.1	0.9	2.5	3.4
249	3/6/18	Paint	100 Building	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.38	2.47
250	3/6/18	Paint	100 Building	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.17	2.57
251	3/6/18	Paint	100 Building	Exterior	Floor stripe	Concrete	B	Intact	Negative	0	0.02	0	0.02	-0.5	1.24
252	3/6/18	Paint	100 Building	Exterior	Hang rack	Wood	B	Intact	Negative	0	0.02	0	0.02	0.19	1.46
253	3/6/18	Paint	100 Building	Exterior	Conduit	Metal	B	Intact	Negative	0.09	0.16	0.09	0.16	0.8	2.9
254	3/6/18	Paint	100 Building	Exterior	Panel	Wood	B	Intact	Negative	0.06	0.2	0.06	0.2	-0.18	1.42
255	3/6/18	Paint	100 Building	Exterior	Door	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.57	2.63

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
256	3/6/18	Paint	100 Building	Exterior	Door frame	Metal	B	Intact	Negative	0	0.02	0	0.02	0	2.65
257	3/6/18	Paint	100 Building	Exterior	Transom	Wood	B	Intact	Positive	1.5	0.5	1.5	0.5	1	1
258	3/6/18	Paint	100 Building	Exterior	Drinking fountain	Terrazzo	D	Intact	Negative	0.01	0.02	0.01	0.02	-0.27	1.21
259	3/6/18	Paint	100 Building	Exterior	Hang rack			Intact	Negative	0	0.02	0	0.02	0.3	1.7
260	3/6/18	Paint	100 Building	Exterior	Conduit	Metal		Intact	Negative	0.17	0.24	0.17	0.24	0.02	3.06
261	3/6/18	Paint	100 Building	Exterior	Wall trim (above windows)	Wood	B	Intact	Positive	1.5	0.7	1.5	0.7	1.3	1.6
262	3/6/18	Paint	100 Building	Exterior	Overhang	Wood	B	Intact	Negative	0.5	0.2	0.5	0.2	0.8	0.5
263	3/6/18	Paint	100 Building	Exterior	Overhang beam	Wood	B	Intact	Positive	4	2.1	4	2.1	2.4	2.3
264	3/6/18	Paint	100 Building	Exterior	Fascia	Wood	B	Intact	Positive	2	0.9	1.8	0.6	2	0.9
265	3/6/18	Paint	100 Building	Exterior	Fascia	Metal	C	Poor	Negative	0.4	0.2	0.4	0.2	0.6	1.9
266	3/6/18	Paint	100 Building	Exterior	Flashing	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.16	2.13
267	3/6/18	Paint	100 Building	Exterior	Conduit	Metal	C	Intact	Negative	0	0.02	0	0.02	0.11	1.87
268	3/6/18	Paint	100 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.46	2.26
269	3/6/18	Paint	200 Building	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.03	0.01	0.03	-0.69	1.72
270	3/6/18	Paint	200 Building	Exterior	Wall	Brick	B	Intact	Null	0.01	0.06	0.01	0.06	0.5	4.7

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK	PbK Error
271	3/6/18	Paint	200 Building	Exterior	Wall	Brick	B	Intact	Negative	0.02	0.02	0.04	-0.4	1.04
272	3/6/18	Paint	200 Building	Exterior	Wall	Brick	C	Intact	Null	0	0	0.02	-0.31	2.97
273	3/6/18	Paint	200 Building	Exterior	Wall	Brick	C	Intact	Negative	0	0	0.02	0.15	0.96
274	3/6/18	Paint	200 Building	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.01	0.02	-0.04	1.06
275	3/6/18	Paint	200 Building	Exterior	Hang rack	Wood	D	Intact	Negative	0	0	0.02	0.1	1.33
276	3/6/18	Paint	200 Building	Exterior	Window frame	Metal	D	Intact	Positive	2.1	2.6	0.9	2.1	1.3
277	3/6/18	Paint	200 Building	Exterior	Window sash	Metal	D	Intact	Positive	1.4	1.7	0.4	1.4	0.7
278	3/6/18	Paint	200 Building	Exterior	Window frame	Metal	B	Intact	Positive	1.4	1.4	0.5	1.6	1.2
279	3/6/18	Paint	200 Building	Exterior	Window sash	Metal	B	Intact	Null	1.4	1.4	0.2	1.2	0.5
280	3/6/18	Paint	200 Building	Exterior	Window sash	Metal	B	Intact	Positive	1.5	1.5	0.6	1.1	2.3
281	3/6/18	Paint	200 Building	Exterior	Door	Metal	D	Intact	Negative	0	0	0.02	-0.2	2.66
282	3/6/18	Paint	200 Building	Exterior	Door frame	Metal	D	Intact	Negative	0	0	0.02	-0.47	2.71
283	3/6/18	Paint	200 Building	Exterior	Transom	Wood	D	Intact	Null	1.1	1.1	0.3	0.6	0.5
284	3/6/18	Paint	200 Building	Exterior	Transom	Wood	D	Intact	Positive	1.2	1.2	0.3	0.7	0.5
285	3/6/18	Paint	200 Building	Exterior	Casing	Wood	D	Intact	Negative	0.2	0.2	0.3	0.6	1.6

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK Error
286	3/6/18	Paint	200 Building	Exterior	Floor stripe	Concrete	D	Intact	Negative	0	0	0.02	-0.77
287	3/6/18	Paint	200 Building	Exterior	Conduit	Metal	D	Intact	Negative	0	0	0.02	-0.27
288	3/6/18	Paint	200 Building	Exterior	Wall trim (above windows)	Wood	D	Intact	Positive	1.7	1.7	0.5	0.6
289	3/6/18	Paint	200 Building	Exterior	Overhang	Wood	D	Intact	Null	1.5	1.5	0.3	1.1
290	3/6/18	Paint	200 Building	Exterior	Overhang	Wood	D	Intact	Negative	0.09	0.09	0.27	0.12
291	3/6/18	Paint	200 Building	Exterior	Overhang beam	Wood	D	Intact	Positive	2.5	2.5	1.3	1.3
292	3/6/18	Paint	200 Building	Exterior	Drinking fountain	Porcelain	D	Intact	Negative	-0.5	0.03	0.07	-0.5
293	3/6/18	Paint	200 Building	Exterior	Hand rail	Metal	D	Intact	Negative	0.1	0.1	0.16	0.9
294	3/6/18	Paint	200 Building	Exterior	Vent	Metal	D	Intact	Null	1.7	1.7	0.6	1.1
295	3/6/18	Paint	200 Building	Exterior	Vent	Metal	D	Intact	Positive	3.9	3.9	2.1	4.7
296	3/6/18	Paint	200 Building	Exterior	Conduit	Metal	D	Intact	Negative	0.15	0.15	0.33	-0.14
297	3/6/18	Paint	200 Building	Exterior	Fascia	Wood	A	Poor	Positive	2.9	2.9	1.3	1.6
298	3/6/18	Paint	200 Building	Exterior	Flashing	Metal	A	Intact	Negative	0	0	0.02	0.23
299	3/6/18	Paint	200 Building	Exterior	Gutter	Metal	D	Intact	Negative	0	0	0.02	0.14
300	3/6/18	Paint	200 Building	Exterior	Conduit	Metal	D	Intact	Negative	0	0	0.02	-0.02

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
301	3/6/18	Paint	200 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.64	2.29
302	3/6/18	Paint	300 Building	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	-0.4	1.1
303	3/6/18	Paint	300 Building	Exterior	Wall	Brick	B	Intact	Negative	0.01	0.02	0.01	0.02	-0.18	1.19
304	3/6/18	Paint	300 Building	Exterior	Wall	Brick	C	Intact	Negative	0.02	0.04	0.02	0.04	-0.24	1.13
305	3/6/18	Paint	300 Building	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	-0.21	1.1
306	3/6/18	Paint	300 Building	Exterior	Wall	Stucco	A	Intact	Negative	0.01	0.03	0.01	0.03	-0.79	1.86
307	3/6/18	Paint	300 Building	Exterior	Door	Metal	A	Intact	Negative	0	0.02	0	0.02	0.8	3
308	3/6/18	Paint	300 Building	Exterior	Door frame	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.37	2.61
309	3/6/18	Paint	300 Building	Exterior	Vent	Metal	B	Intact	Negative	0.4	0.4	0.4	0.4	-0.37	2.79
310	3/6/18	Paint	300 Building	Exterior	Floor stripe	Concrete	A	Intact	Negative	0	0.02	0	0.02	-0.57	1.26
311	3/6/18	Paint	300 Building	Exterior	Panel	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.34	1.64
312	3/6/18	Paint	300 Building	Exterior	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.33	2.65
313	3/6/18	Paint	300 Building	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	0.06	2.7
314	3/6/18	Paint	300 Building	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.23	1.98
315	3/6/18	Paint	300 Building	Exterior	Casing	Wood	D	Intact	Negative	0.16	0.24	0.16	0.24	0.4	1.6

Little Lake City School District
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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
316	3/6/18	Paint	300 Building	Exterior	Transom	Wood	D	Intact	Null	1.6	2.3	1.6	2.3	3.8	5.8
317	3/6/18	Paint	300 Building	Exterior	Transom	Wood	D	Intact	Null	1.5	1.6	1.5	1.6	0.6	2.3
318	3/6/18	Paint	300 Building	Exterior	Transom	Wood	D	Intact	Positive	1.7	0.5	1.7	0.5	0.9	0.8
319	3/6/18	Paint	300 Building	Exterior	Window frame	Metal	D	Intact	Positive	2.2	1.1	2.2	1.1	1	3
320	3/6/18	Paint	300 Building	Exterior	Window sash	Metal	D	Intact	Positive	2.2	1	2.2	1	2.2	3.5
321	3/6/18	Paint	300 Building	Exterior	Hang rack	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.15	1.54
322	3/6/18	Paint	300 Building	Exterior	Wall trim (above windows)	Wood	D	Intact	Positive	1.9	1	1.9	1	2	1.8
323	3/6/18	Paint	300 Building	Exterior	Overhang	Wood	D	Intact	Negative	0.26	0.23	0.26	0.23	0.4	1.3
324	3/6/18	Paint	300 Building	Exterior	Overhang	Wood	D	Intact	Positive	2.7	1.3	2.7	1.3	2.6	2.2
325	3/6/18	Paint	300 Building	Exterior	Overhang beam	Wood	D	Intact	Positive	2.7	1.1	2.8	1	2.7	1.1
326	3/6/18	Paint	300 Building	Exterior	Fascia	Wood	D	Intact	Positive	1.9	0.5	1.9	0.5	1.9	1.1
327	3/6/18	Paint	300 Building	Exterior	Flashing	Metal	D	Intact	Negative	0.01	0.03	0.01	0.03	0.3	2.12
328	3/6/18	Paint	300 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.21	1.79
329	3/6/18	Paint	300 Building	Exterior	Pole	Metal	A	Intact	Negative	0.01	0.03	0.01	0.03	0.5	3.1
330	3/6/18	Paint			Calibrate				Positive	1.6	0.4	1.6	0.4	0.6	2.1

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
331	3/6/18	Paint			Calibrate				Positive	1.7	0.6	1.7	0.6	0.7	3
332	3/6/18	Paint			Calibrate				Positive	1.6	0.5	1.6	0.5	0.9	2.8
333	3/7/18	Paint			Shutter calibrate					1.56	0	0.3	0	0	0
334	3/7/18	Paint			Calibrate				Positive	1.7	0.5	1.7	0.5	1.1	2.4
335	3/7/18	Paint			Calibrate				Positive	1.6	0.5	1.6	0.5	1.2	2.6
336	3/7/18	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	0.7	2.3
337	3/7/18	Paint	400 Building	Exterior	Wall	Brick	A	Intact	Negative	0.02	0.05	0.02	0.05	0.16	0.94
338	3/7/18	Paint	400 Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	-0.41	1.02
339	3/7/18	Paint	400 Building	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	0.13	0.91
340	3/7/18	Paint	400 Building	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	-0.06	1.12
341	3/7/18	Paint	400 Building	Exterior	Wall	Stucco	A	Intact	Negative	0	0.02	0	0.02	-0.04	1.02
342	3/7/18	Paint	400 Building	Exterior	Door	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.61	2.69
343	3/7/18	Paint	400 Building	Exterior	Door frame	Metal	A	Intact	Negative	0	0.02	0	0.02	0.23	2.01
344	3/7/18	Paint	400 Building	Exterior	Floor stripe	Concrete	A	Intact	Negative	0	0.02	0	0.02	-0.05	1.1
345	3/7/18	Paint	400 Building	Exterior	Vent	Metal	B	Intact	Negative	0.3	0.3	0.3	0.3	0.08	1.98

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC Error	PbL	PbL Error	PbK	PbK Error	
346	3/7/18	Paint	400 Building	Exterior	Conduit	Metal	B	Intact	Negative	0.13	0.22	0.13	0.22	0.9	2.9
347	3/7/18	Paint	400 Building	Exterior	Panel	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.24	1.65
348	3/7/18	Paint	400 Building	Exterior	Pipe	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.24	2.97
349	3/7/18	Paint	400 Building	Exterior	Hang rack	Wood	D	Intact	Negative	0	0.02	0	0.02	0.4	1.4
350	3/7/18	Paint	400 Building	Exterior	Window frame	Metal	D	Intact	Positive	2.1	1.1	2.1	1.1	2.4	2.8
351	3/7/18	Paint	400 Building	Exterior	Window sash	Metal	D	Intact	Positive	2.2	1.2	2.5	0.8	2.2	1.2
352	3/7/18	Paint	400 Building	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.71	2.54
353	3/7/18	Paint	400 Building	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.25	2.74
354	3/7/18	Paint	400 Building	Exterior	Casing	Wood	D	Intact	Negative	0.18	0.19	0.18	0.19	0.8	1.6
355	3/7/18	Paint	400 Building	Exterior	Transom	Wood	D	Intact	Positive	2.4	1.5	2.4	1.5	2.2	2.1
356	3/7/18	Paint	400 Building	Exterior	Wall trim (above windows)	Wood	D	Intact	Positive	2.8	2.1	3.5	2	2.8	2.1
357	3/7/18	Paint	400 Building	Exterior	Overhang beam	Wood	D	Intact	Positive	2.8	1.6	2.8	1.6	2.5	2.3
358	3/7/18	Paint	400 Building	Exterior	Overhang	Wood	D	Intact	Positive	1.2	0.4	0.9	0.3	1.2	0.4
359	3/7/18	Paint	400 Building	Exterior	Fascia	Wood	A	Poor	Positive	2.6	1.3	2.6	1.3	1.6	2.2
360	3/7/18	Paint	400 Building	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	0.02	1.96

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
361	3/7/18	Paint	400 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.06	1.54
362	3/7/18	Paint	500 Building	Exterior	Wall	Brick	A	Intact	Negative	0.02	0.04	0.02	0.04	-0.08	1.05
363	3/7/18	Paint	500 Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.19	0.95
364	3/7/18	Paint	500 Building	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	-0.13	0.97
365	3/7/18	Paint	500 Building	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	-0.06	1.01
366	3/7/18	Paint	500 Building	Exterior	Conduit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.4	2.4
367	3/7/18	Paint	500 Building	Exterior	Electrical unit	Metal	B	Intact	Negative	0	0.02	0	0.02	0.5	2.7
368	3/7/18	Paint	500 Building	Exterior	Door	Metal	C	Intact	Negative	0	0.02	0	0.02	0.03	2.8
369	3/7/18	Paint	500 Building	Exterior	Door frame	Metal	C	Intact	Negative	0	0.02	0	0.02	0	2.5
370	3/7/18	Paint	500 Building	Exterior	Floor stripe	Concrete	C	Intact	Negative	0	0.02	0	0.02	0.18	0.9
371	3/7/18	Paint	500 Building	Exterior	Wall	Stucco	C	Intact	Negative	0	0.02	0	0.02	0.5	0.7
372	3/7/18	Paint	500 Building	Exterior	Vent	Metal	C	Intact	Negative	0.09	0.29	0.09	0.29	-0.25	2.74
373	3/7/18	Paint	500 Building	Exterior	Panel	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.7	1.65
374	3/7/18	Paint	500 Building	Exterior	Hang rack	Wood	D	Intact	Negative	0	0.02	0	0.02	0.22	1.36
375	3/7/18	Paint	500 Building	Exterior	Window frame	Metal	D	Intact	Positive	2.8	1.4	2.8	1.4	2.9	3.4

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
376	3/7/18	Paint	500 Building	Exterior	Window sash	Stucco	D	Intact	Positive	2.7	1.3	2.7	1.3	2.2	3.2
377	3/7/18	Paint	500 Building	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	0.4	2.9
378	3/7/18	Paint	500 Building	Exterior	Door frame	Metal	D	Intact	Negative	0	0.02	0	0.02	0	2.76
379	3/7/18	Paint	500 Building	Exterior	Casing	Wood	D	Intact	Negative	0.4	0.2	0.4	0.2	0.7	0.7
380	3/7/18	Paint	500 Building	Exterior	Transom	Wood	D	Intact	Null	1.9	1.2	1.9	1.2	1	1.6
381	3/7/18	Paint	500 Building	Exterior	Transom	Wood	D	Intact	Positive	1.4	0.4	1.4	0.4	0.7	0.7
382	3/7/18	Paint	500 Building	Exterior	Wall trim (above windows)	Wood	D	Intact	Positive	2.2	1	3	0.9	2.2	1
383	3/7/18	Paint	500 Building	Exterior	Overhang beam	Wood	D	Intact	Positive	2.7	1.4	2.7	1.4	1.9	1.8
384	3/7/18	Paint	500 Building	Exterior	Overhang	Wood	D	Intact	Positive	1.3	0.4	1.3	0.4	1.3	0.8
385	3/7/18	Paint	500 Building	Exterior	Fascia	Wood	A	Poor	Positive	1.3	0.3	1.3	0.3	1.2	0.8
386	3/7/18	Paint	500 Building	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	0.07	1.58
387	3/7/18	Paint	500 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.3	2.43
388	3/7/18	Paint			Calibrate				Positive	1.5	0.3	1.5	0.3	1.5	1.9
389	3/7/18	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	0.6	2.8
390	3/7/18	Paint			Calibrate				Positive	1.5	0.5	1.5	0.5	1.8	3.2

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
391	3/7/18	Paint	600 Building	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	-0.28	1.15
392	3/7/18	Paint	600 Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	-0.09	1.12
393	3/7/18	Paint	600 Building	Exterior	Wall	Brick	C	Intact	Negative	0.01	0.02	0.01	0.02	-0.05	1.03
394	3/7/18	Paint	600 Building	Exterior	Wall	Brick	D	Intact	Null	0	0.04	0	0.04	-0.41	5.78
395	3/7/18	Paint	600 Building	Exterior	Wall	Brick	D	Intact	Negative	0.01	0.02	0.01	0.02	0.23	0.82
396	3/7/18	Paint	600 Building	Exterior	Seal plate	Metal	A	Intact	Negative	0.27	0.15	0.27	0.15	-0.18	1.94
397	3/7/18	Paint	600 Building	Exterior	Conduit	Metal	B	Intact	Negative	0.15	0.27	0.15	0.27	-0.31	2.67
398	3/7/18	Paint	600 Building	Exterior	Electrical box	Metal	B	Intact	Negative	0	0.02	0	0.02	0.16	2.66
399	3/7/18	Paint	600 Building	Exterior	Door	Metal	C	Intact	Negative	0	0.02	0	0.02	0.6	2.6
400	3/7/18	Paint	600 Building	Exterior	Door frame	Metal	C	Intact	Negative	0	0.02	0	0.02	0.22	2.84
401	3/7/18	Paint	600 Building	Exterior	Floor stripe	Concrete	C	Intact	Negative	0	0.02	0	0.02	-0.32	1.18
402	3/7/18	Paint	600 Building	Exterior	Wall	Stucco	C	Intact	Negative	0	0.02	0	0.02	-0.11	1.04
403	3/7/18	Paint	600 Building	Exterior	Vent	Metal	C	Intact	Negative	0.19	0.39	0.19	0.39	0.4	2.4
404	3/7/18	Paint	600 Building	Exterior	Hang rack	Wood	D	Intact	Negative	0	0.02	0	0.02	0.17	1.65
405	3/7/18	Paint	600 Building	Exterior	Window frame	Metal	D	Intact	Negative	0.3	0.2	0.3	0.2	0.25	1.04

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
406	3/7/18	Paint	600 Building	Exterior	Window Frame	Metal	D	Intact	Negative	0.16	0.22	0.16	0.22	0.4	3.4
407	3/7/18	Paint	600 Building	Exterior	Window sash	Metal	D	Intact	Negative	0.26	0.26	0.26	0.26	0.29	3.02
408	3/7/18	Paint	600 Building	Exterior	Door	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.43	2.56
409	3/7/18	Paint	600 Building	Exterior	Door frame	Metal	D	Intact	Negative	0	0.03	0	0.03	-0.11	2.61
410	3/7/18	Paint	600 Building	Exterior	Casing	Wood	D	Intact	Negative	0.3	0.28	0.3	0.28	0.3	1.36
411	3/7/18	Paint	600 Building	Exterior	Panel	Wood	D	Intact	Negative	0	0.02	0	0.02	-0.74	1.53
412	3/7/18	Paint	600 Building	Exterior	Transom	Wood	D	Intact	Negative	0.15	0.11	0.15	0.11	-0.2	0.58
413	3/7/18	Paint	600 Building	Exterior	Wall trim (above windows)	Wood	D	Intact	Negative	0.4	0.2	0.4	0.2	-0.19	0.76
414	3/7/18	Paint	600 Building	Exterior	Beam	Wood	D	Intact	Negative	0.28	0.34	0.28	0.34	0.8	1.9
415	3/7/18	Paint	600 Building	Exterior	Beam	Wood	D	Intact	Negative	0.4	0.3	0.4	0.3	0.6	1.3
416	3/7/18	Paint	600 Building	Exterior	Overhang	Wood	D	Intact	Negative	0.06	0.11	0.06	0.11	0.19	1.57
417	3/7/18	Paint	600 Building	Exterior	Overhang	Wood	D	Intact	Null	0.4	0.4	0.4	0.4	0.3	1.5
418	3/7/18	Paint	600 Building	Exterior	Overhang	Wood	D	Intact	Null	0.9	1.2	0.9	1.2	0.7	2
419	3/7/18	Paint	600 Building	Exterior	Overhang	Wood	D	Intact	Negative	0.08	0.14	0.08	0.14	0.4	1.4
420	3/7/18	Paint	600 Building	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.05	2.07

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
421	3/7/18	Paint	600 Building	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.89	2.69
422	3/7/18	Paint	600 Building	Exterior	Flashing	Metal	A	Intact	Null	0	0.02	0	0.02	1.5	2.5
423	3/7/18	Paint	600 Building	Exterior	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	0.09	1.54
424	3/7/18	Paint	600 Building	Exterior	Fascia	Wood	A	Intact	Negative	0.5	0.2	0.5	0.2	0.6	0.7
425	3/7/18	Paint	600 Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	0.16	2.31
426	3/7/18	Paint			Calibrate				Positive	1.6	0.5	1.6	0.5	1	2.4
427	3/7/18	Paint			Calibrate				Positive	1.4	0.4	1.4	0.4	0.3	2.22
428	3/7/18	Paint			Calibrate				Positive	1.7	0.8	1.7	0.8	1.1	4
429	3/8/18	Paint			Shutter calibrate					1.48	0	0.27	0	0	0
430	3/8/18	Paint			Calibrate				Positive	1.6	0.5	1.6	0.5	1.1	2.8
431	3/8/18	Paint			Calibrate				Positive	1.7	0.5	1.7	0.5	0.9	2.6
432	3/8/18	Paint			Calibrate				Positive	2	0.7	2	0.7	1	3.1
433	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall	Brick	A	Intact	Negative	0.01	0.02	0.01	0.02	-0.01	1
434	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	0.19	0.97
435	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall	Brick	C	Intact	Null	0	0.02	0	0.02	0.3	2.23

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
436	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall	Brick	C	Intact	Negative	0	0.02	0	0.02	0.13	0.84
437	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall	Brick	D	Intact	Negative	0.02	0.05	0.02	0.05	0.24	0.9
438	3/8/18	Paint	Multi-Purpose Building	Exterior	Window frame	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.1	2.29
439	3/8/18	Paint	Multi-Purpose Building	Exterior	Door	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.58	2.79
440	3/8/18	Paint	Multi-Purpose Building	Exterior	Door frame	Metal	A	Intact	Negative	0	0.02	0	0.02	0.16	2.48
441	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent	Metal	A	Intact	Negative	0.13	0.25	0.13	0.25	0.4	2.5
442	3/8/18	Paint	Multi-Purpose Building	Exterior	Downspout	Metal	A	Intact	Negative	0.09	0.2	0.09	0.2	0.8	3
443	3/8/18	Paint	Multi-Purpose Building	Exterior	Door	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.2	2.21
444	3/8/18	Paint	Multi-Purpose Building	Exterior	Door frame	Metal	A	Intact	Negative	0	0.02	0	0.02	0.06	2.53
445	3/8/18	Paint	Multi-Purpose Building	Exterior	Window frame	Metal	B	Intact	Negative	0	0.02	0	0.02	0.5	2.6
446	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall plate	Metal	B	Intact	Null	1	0.5	1	0.5	0.7	2.7
447	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall plate	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.26	2.4
448	3/8/18	Paint	Multi-Purpose Building	Exterior	Wall plate	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.21	2.14
449	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent frame	Wood	B	Intact	Negative	0.17	0.23	0.17	0.23	1	1.5
450	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent	Metal	B	Intact	Negative	0.05	0.11	0.05	0.11	-0.64	1.88

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Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
451	3/8/18	Paint	Multi-Purpose Building	Exterior	Mesh vent	Metal	B	Intact	Negative	0.03	0.07	0.03	0.07	-0.31	1.4
452	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent	Metal	B	Intact	Negative	0.17	0.27	0.17	0.27	-0.23	2.36
453	3/8/18	Paint	Multi-Purpose Building	Exterior	Roll-up door	Metal	C	Intact	Negative	0.29	0.26	0.29	0.26	-0.04	2.02
454	3/8/18	Paint	Multi-Purpose Building	Exterior	Door	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.31	2.52
455	3/8/18	Paint	Multi-Purpose Building	Exterior	Door frame	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.84	2.68
456	3/8/18	Paint	Multi-Purpose Building	Exterior	Hand rail	Metal	C	Intact	Negative	0.17	0.31	0.17	0.31	0.8	3.2
457	3/8/18	Paint	Multi-Purpose Building	Exterior	Mesh vent	Metal	D	Intact	Null	0.5	0.1	0.5	0.1	1.2	0.8
458	3/8/18	Paint	Multi-Purpose Building	Exterior	Mesh vent	Metal	D	Intact	Negative	0.1	0.23	0.1	0.23	0.06	2.81
459	3/8/18	Paint	Multi-Purpose Building	Exterior	Bench	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.72	1.02
460	3/8/18	Paint	Multi-Purpose Building	Exterior	Bench	Metal	D	Intact	Negative	0	0.02	0	0.02	-0.14	2.61
461	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent	Metal	D	Intact	Negative	0.17	0.47	0.17	0.47	0.7	3
462	3/8/18	Paint	Multi-Purpose Building	Exterior	Window frame	Metal	C	Intact	Negative	0	0.02	0	0.02	-0.14	2.19
463	3/8/18	Paint	Multi-Purpose Building	Exterior	Vent	Metal	D	Intact	Negative	0.15	0.15	0.15	0.15	-0.04	0.97
464	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Overhang	Stucco	A	Intact	Null	0.02	0.02	0.02	0.02	0.8	0.5
465	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Overhang	Stucco	A	Intact	Negative	0	0.02	0	0.02	-0.01	1.07

Little Lake City School District
Studebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
466	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Fascia	Wood	B	Fair	Positive	2.1	1	2.1	1	1.6	2
467	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Flashing	Metal	B	Intact	Negative	0	0.02	0	0.02	-0.04	2.04
468	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Gutter	Metal	A	Poor	Negative	0.08	0.12	0.08	0.12	0.25	2.26
469	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Vent	Metal	Roof 2	Intact	Negative	0.1	0.12	0.1	0.12	0.24	2.01
470	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	HVAC unit	Metal	Roof 2	Intact	Negative	0	0.02	0	0.02	0.26	1.9
471	3/8/18	Paint	Multi-Purpose Building	Roof top no. 2	Flashing	Metal	D	Intact	Negative	0.04	0.07	0.04	0.07	-0.22	1.94
472	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	Vent	Metal	A	Intact	Negative	0.4	0.2	0.4	0.2	0.08	1.22
473	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	Fascia	Wood	A	Intact	Positive	1.3	0.4	1.3	0.4	1.4	0.8
474	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	Flashing	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.24	1.99
475	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	Gutter	Metal	D	Poor	Negative	0.05	0.15	0.05	0.15	0.05	2.11
476	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	HVAC unit	Metal	Roof 1	Intact	Negative	0	0.02	0	0.02	-0.08	2.28
477	3/8/18	Paint	Multi-Purpose Building	Roof top no. 1	Vent	Metal	Roof 1	Intact	Negative	0.1	0.11	0.1	0.11	-0.38	2.23
478	3/8/18	Paint	Administration Building	Exterior	Wall	Brick	A	Intact	Negative	0	0.02	0	0.02	-0.22	1.11
479	3/8/18	Paint	Administration Building	Exterior	Wall	Brick	B	Intact	Negative	0	0.02	0	0.02	-0.13	1.07
480	3/8/18	Paint	Administration Building	Exterior	Wall	Brick	C	Intact	Negative	0.02	0.04	0.02	0.04	-0.32	1.08

Little Lake City School District
Studebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
481	3/8/18	Paint	Administration Building	Exterior	Wall	Brick	D	Intact	Negative	0	0.02	0	0.02	-0.23	1.08
482	3/8/18	Paint	Administration Building	Exterior	Floor stripe	Concrete	A	Intact	Negative	0.01	0.03	0.01	0.03	0.11	1
483	3/8/18	Paint	Administration Building	Exterior	Door	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.21	2.74
484	3/8/18	Paint	Administration Building	Exterior	Door frame	Metal	A	Intact	Negative	0	0.02	0	0.02	0.12	2.83
485	3/8/18	Paint	Administration Building	Exterior	Bench	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.17	0.88
486	3/8/18	Paint	Administration Building	Exterior	Casing	Wood	A	Intact	Negative	0	0.02	0	0.02	0.4	1.4
487	3/8/18	Paint	Administration Building	Exterior	Electrical box	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.21	2.59
488	3/8/18	Paint	Administration Building	Exterior	Conduit	Metal	A	Intact	Negative	0	0.02	0	0.02	-0.12	0.73
489	3/8/18	Paint	Administration Building	Exterior	HVAC unit	Metal	A	Intact	Negative	0	0.02	0	0.02	0.4	2.3
490	3/8/18	Paint	Administration Building	Exterior	Transom	Wood	A	Intact	Negative	0	0.02	0	0.02	-0.01	1.38
491	3/8/18	Paint	Administration Building	Exterior	Vent	Metal	A	Intact	Positive	2.8	1.6	2.8	1.6	1.8	3.3
492	3/8/18	Paint	Administration Building	Exterior	Window	glass	C	Intact	Negative	0.19	0.4	0.19	0.4	0.01	2.57
493	3/8/18	Paint	Administration Building	Exterior	Window frame	Metal	C	Intact	Positive	2.5	1.2	2.5	1.2	1.8	3
494	3/8/18	Paint	Administration Building	Exterior	Window sash	Metal	C	Intact	Positive	1.2	0.5	1.2	0.5	1.2	2.2
495	3/8/18	Paint	Administration Building	Exterior	Transom	Wood	B	Intact	Negative	0	0.02	0	0.02	-0.19	1.23

Little Lake City School District
Studebaker Elementary School

Reading No	Time	Type	Building	Location	Component	Substrate	Side	Condition	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
496	3/8/18	Paint	Administration Building	Exterior	Conduit	Metal	C	Intact	Negative	0.14	0.15	0.14	0.15	0.4	2.1
497	3/8/18	Paint	Administration Building	Exterior	Overhang	Wood	C	Intact	Positive	1.3	0.4	1.3	0.4	0.7	0.7
498	3/8/18	Paint	Administration Building	Exterior	Downspout	Metal	A	Fair	Negative	-0.53	1.09	0.24	0.32	-0.53	1.09
499	3/8/18	Paint	Administration Building	Exterior	Fascia	Wood	C	Intact	Negative	0.05	0.08	0.05	0.08	0.25	1.29
500	3/8/18	Paint	Administration Building	Exterior	Flashing	Metal	D	Intact	Negative	0	0.02	0	0.02	0.1	2.25
501	3/8/18	Paint	Administration Building	Exterior	Gutter	Metal	C	Intact	Positive	1.2	0.2	1.2	0.2	0.8	1
502	3/8/18	Paint	Administration Building	Exterior	HVAC unit	Metal	Roof	Intact	Negative	0	0.02	0	0.02	-0.21	2.29
503	3/8/18	Paint	Administration Building	Exterior	Vent	Metal	Roof	Intact	Negative	0.2	0.17	0.2	0.17	0.25	2.24
504	3/8/18	Paint			Calibrate				Positive	1.8	0.6	1.8	0.6	0.22	2.53
505	3/8/18	Paint			Calibrate				Positive	1.5	0.4	1.5	0.4	1	2.5
506	3/8/18	Paint			Calibrate				Positive	1.8	0.5	1.8	0.5	1.4	2.7

APPENDIX C – LEAD HAZARD EVALUATION REPORT

LEAD HAZARD EVALUATION REPORT

Section 1 – Date of Lead Hazard Evaluation 03/05/18 - 03/08/18

Section 2 – Type of Lead Hazard Evaluation (Check one box only)

- Lead Inspection
 Risk assessment
 Clearance Inspection
 Other (specify) _____

Section 3 – Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)] <u>18000 HALCOURT AVE.</u>		City <u>NORWALK</u>	County <u>LA.</u>	Zip Code <u>90650</u>
Construction date (year) of structure <u>UNKNOWN</u>	Type of structure <input type="checkbox"/> Multi-unit building <input checked="" type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 – Owner of Structure (if business/agency, list contact person)

Name <u>LITTLE LAKE CSD (BRENT GRIFFIN)</u>		Telephone number <u>(562) 868-8241</u>		
Address [number, street, apartment (if applicable)] <u>10515 S. PIONEER BLVD.</u>		City <u>SANTA FE SPRINGS</u>	State <u>CA</u>	Zip Code <u>90670</u>

Section 5 – Results of Lead Hazard Evaluation (check all that apply)

- No lead-based paint detected
 Intact lead-based paint detected
 Deteriorated lead-based paint detected
 No lead hazards detected
 Lead-contaminated dust found
 Lead-contaminated soil found
 Other _____

Section 6 – Individual Conducting Lead Hazard Evaluation

Name <u>George Valverde</u>		Telephone number <u>(626) 441-7050</u>		
Address [number, street, apartment (if applicable)] <u>310 E. Foothill Boulevard Suite 200</u>		City <u>Arcadia</u>	State <u>CA</u>	Zip Code <u>91006</u>
CDPH certification number <u>24605</u>	Signature 		Date <u>03/08/18</u>	
Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)				

Section 7 – Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
 B. Each testing method, device, and sampling procedure used;
 C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656

APPENDIX D –XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: *Niton LLC*

Tested Model: *XLP 300*

Source: ¹⁰⁹Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLI and XLP series:

XLI 300A, XLI 301A, XLI 302A, and XLI 303A.

XLP 300A, XLP 301A, XLP 302A, and XLP 303A.

XLI 700A, XLI 701A, XLI 702A, and XLI 703A.

XLP 700A, XLP 701A, XLP 702A, and XLP 703A.

Note: The XLI and XLP versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges of thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.