

DATE: November 29, 2022
TO: Bidders
FROM: Alex Bryson
RE: Purchasing Department / Fiscal Services
Bid No. 20223-01-055B Exterior Paint Project – Laurel Elementary

Addendum No 1

NEW BID DUE DATE – 12-2-2022 - BEFORE 2PM

Page 2 – Questions and Answers

Page 3 – Bid Proposal

Page 4 – Designation of Subcontractors

Page 5 – Information Required of Bidders

Page 7 – Equal Opportunity Statement

Page 8 – Certification of Non-Debarment

Page 9 – Acknowledgment of Addendum

Exhibit A – Project Drawings

Exhibit B – Project Specifications

Questions and Answers:

Q: ... I was reviewing the bid forms for this project and noticed that there is no form to put the total project price on the bid, only alternate/additive bids. Please advise if this is where we put our total bid price on?

A: Please see page 3 titled “Bid Proposal”

Q: ... after further reviewing the bid documents the following pages are missing.

Certification of contractor and subcontractor DIR Registration form.
Information required of bidder’s form.
Equal opportunity statement form.
Certificate of non-debarment form.

A: Please see following pages

Page 4 - Designation of Subcontractors

Page 5 - Information Required of Bidder’s

Page 6 - Equal Opportunity Statement

Page 7 - Certificate of Non-Debarment.

Exhibit A + B – No changes with exception of inclusion of title blocks and paint keys

BID PROPOSAL

Business Name: _____

Contact Name: _____

Business Address: _____

Business Telephone: (_____) _____

E-Mail Address: _____

TO: Oceanside Unified School District, acting by and through its Governing Board, herein called the "Owner:"

Pursuant to and in compliance with your Notice to Contractors Calling for Bids and the 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, and with the specifications and other contract documents, hereby proposes and agrees to perform, within the time stipulated, the contract, including all of its component parts, and everything required to be performed, 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 and with all in strict conformity with the specifications and other contract documents, including addenda, if any for the following project:

Bid No. 2023-01-055B – Exterior Paint Project – Laurel Elementary

BASE BID SCOPE OF WORK	BID PRICE (IN WRITTEN FORM)	BID PRICE (IN NUMBERS)
Exterior Paint Project – Laurel Elementary		\$
TOTAL BASE BID		\$

In case of discrepancy between the written price and the numerical price, the written price will prevail.

DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act of the Public Contract Code of the State of California, each bidder shall set forth below: (a) the name, the location of the place of business, and the California contractor license number of each subcontractor and (b) the portion of the work which will be done by each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work in an amount in excess of one-half of one percent (0.5%) of the Contractor's Total Bid Price. No additional time shall be granted to provide the below requested information, except as permitted by law.

If no subcontractor is specified, for a portion of the work, or if more than one subcontractor is specified for the same portion of Work, to be performed under the Contract in excess of one-half of one percent (0.5%) of the Contractor's Total Bid Price, then the Contractor shall be deemed to have agreed that it is fully qualified to perform that Work, and that it shall perform that portion itself.

Portion of Work	Subcontractor Name & License # and DIR Registration #	Location of Business

Name of Bidder _____

Signature _____

Title _____

Dated _____

Board of Education

Eleanor Evans

Eric Joyce

Stacy Begin, Ed.D.

Raquel Alvarez

Mike Blessing

INFORMATION REQUIRED OF BIDDERS

BIDDER REFERENCES AND RESPONSIBILITY INFORMATION

- a. The District expressly reserves the right to reject the bid of any bidder who, upon investigation, has been determined to fail to complete similar contracts in a timely fashion or in a satisfactory manner. Such rejection would, if applicable, be based upon the principle that the bidder is “non-responsible” and poses a substantial risk of being unable to complete the work in a cost-effective, professional and timely manner.
- b. In performing the above-described responsibility determination, the District reserves the right to utilize all possible sources of information in making its determination, including but not limited to: inquiries to regulatory State Boards and agencies; credit reports; inquiries to companies and public entities for which the contractor has previously performed work; reference checks and examination of all public records.
- c. The bidder must provide the following information:
- 1) Firm Name and Address:

 - 2) Telephone: _____ Fax: _____
E-mail Address: _____
 - 3) Type of Firm: Individual _____
(check one) Partnership _____
Corporation _____
 - 4) Contractor’s License: Primary Class _____ Lic. No. _____
License Expiration Date: _____
 - 5) Names and titles of all officers of the firm:

 - 6) Number of years as a contractor in construction of This type: _____

- d. The bidder must also demonstrate knowledge of school construction techniques and should possess a working ability to perform similarly sized construction work for a public agency. This knowledge and ability shall be shown by furnishing the names, current phone numbers, address, points of contact and scope of work of at least five (5) customers served within the past three (3) years with requirements similar to the needs of the Oceanside Unified School District.

- 1) **FAILURE TO FURNISH THE REFERENCES (*IN THE COMPLETE FORMAT REQUIRED*) MAY CAUSE YOUR BID TO BE REJECTED AS NON-RESPONSIVE.**

EXAMPLE: Your references should be listed in the following format (facts are example only)

- (a) Work for X Y Z Unified School District
- (b) Phone # (222) 123-4567
- (c) 999 Holly Drive, L.A., CA 92000
- (d) Contact: J.Q. Jones III at above #
- (e) Renovated Hills High in 1990 for \$1.3 Million.

Bidder's Name: _____

Reference #1

District or Entity: _____

Phone #: _____

Address: _____

Name of Contact: _____

Scope of Work & \$ Amount: _____

Reference #2

District or Entity: _____

Phone #: _____

Address: _____

Name of Contact: _____

Scope of Work & \$ Amount: _____

Board of Education

Eleanor Evans

Eric Joyce

Stacy Begin, Ed.D.

Raquel Alvarez

Mike Blessing

Reference #3

District or Entity: _____

Phone #: _____

Address: _____

Name of Contact: _____

Scope of Work & \$ Amount: _____

Reference #4

District or Entity: _____

Phone #: _____

Address: _____

Name of Contact: _____

Scope of Work & \$ Amount: _____

Reference #5

District or Entity: _____

Phone #: _____

Address: _____

Name of Contact: _____

Scope of Work & \$ Amount: _____

Board of Education

Eleanor Evans

Eric Joyce

Stacy Begin, Ed.D.

Raquel Alvarez

Mike Blessing

EQUAL EMPLOYMENT OPPORTUNITY STATEMENT

“I hereby certify to the Oceanside Unified School District that I (if an individual) or we (if a company or corporation) do not discriminate against any employee or applicant for employment because of race, color, sex, religion, or national origin.”

Signature of Authorized Representative

Printed Name of Above

Title

Name of Company

CERTIFICATION OF NON-DEBARMENT

Debarment, Suspension, and other Responsibility Matters:

A. The applicant certifies that it and its principles:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

(b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of the certification; and

(d) Have not within a three-year period preceding This application had one or more public transactions (Federal, State, or local) terminated for cause or default; and

B. Where the applicant is unable to certify to any of the statements in This certification, he or she shall attach an explanation to This.

It further agrees, by accepting and executing This Agreement, that it will include This language without modification in all lower tier transactions, solicitations, proposals, contracts and subcontracts. Where the Contractor or any lower tier participant is unable to certify This statement, it shall attach an explanation to This Agreement.

Proper name of Individual, Company or Corporation

By _____

Title _____

Address _____

Telephone _____

Date _____

Board of Education

Eleanor Evans

Eric Joyce

Stacy Begin, Ed.D.

Raquel Alvarez

Mike Blessing

ACKNOWLEDGMENT OF ADDENDA

The Applicant acknowledges the receipt and review of all Addenda, if any, for this Procurement by indicating below the Addendum Number and Date thereof. This form must be signed and returned with Firm's Statement of Qualifications and Proposal. Acknowledgement does not count against page limit. All other terms and conditions remain in full force and effect.

PROJECT NAME: Exterior Paint Project – Laurel Elementary

PROCUREMENT NUMBER: Bid No - 2023-01-055B

ACKNOWLEDGMENT OF ADDENDA: All scope of work/specification remain unchanged except sections or parts of sections added to, revised, deleted or clarified by an addendum. This Addendum shall be considered part of the Bid documents for the above-mentioned solicitation as though it had been issued at the same time and shall be incorporated integrally herewith. The proposers are hereby notified that they shall make any necessary adjustments in their proposals on account of this addendum. Applicant acknowledges the receipt and review of all Addenda, if any, for this Procurement by indicating below the Addendum Number and Date thereof. This form must be signed and returned with Bid. Acknowledgement does not count against page limit. All other terms and conditions remain.

PROCUREMENT NUMBER/NAME:

Addendum Number No. ____ Received: _____

Sign Addendum Number No. ____ Received: _____

Sign Company Name: _____

By: _____

Date: _____

Exhibit A – Project Drawings

LAUREL ELEMENTARY

OCEANSIDE UNIFIED SCHOOL DISTRICT

EXTERIOR PAINT PROJECT BID NO. 2023-01-055B

1410 LAUREL STREET
OCEANSIDE, CA 92058

DRAWING INDEX

- P-0 TITLE SHEET
- P-1 SITE PLAN & VIEW LOCATIONS
- P-2 GENERAL NOTES & PAINT LEGEND
- P-3 PAINT LOCATION VIEWS 1 - 3
- P-4 PAINT LOCATION VIEWS 4 - 7

PREPARED BY
KIPKEMOI DESIGN, LLC COLOR CONSULTANT
864 GRAND AVENUE #301, SAN DIEGO, CA 92109

PREPARED FOR
OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 MISSION AVENUE, OCEANSIDE CA 92058

LAUREL ELEMENTARY
1410 LAUREL STREET
OCEANSIDE, CA 92058

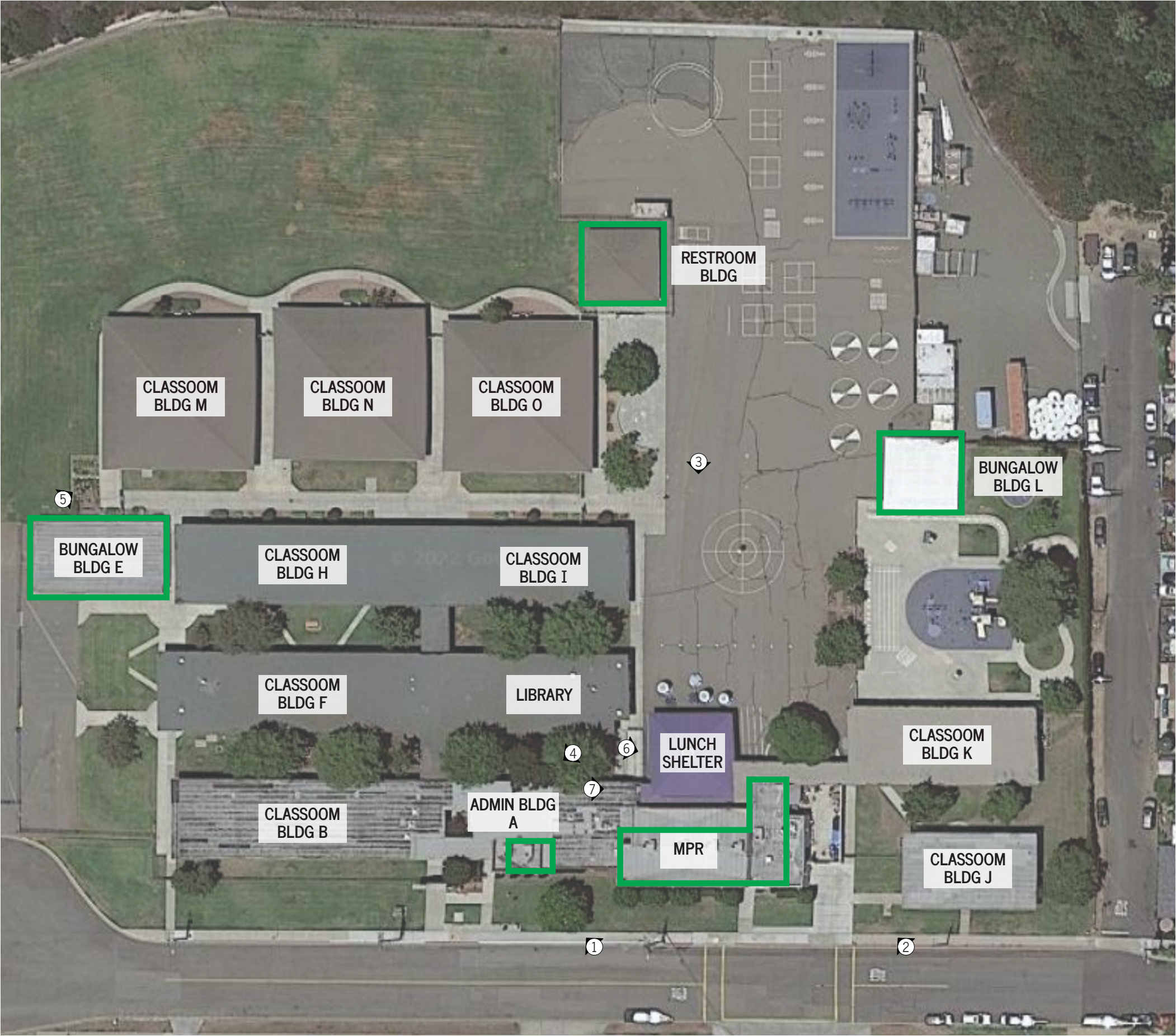
TITLE SHEET
EXTERIOR PAINT PROJECT

BID NO.
2023-01-055B

DATE
11/01/2022

REVISIONS

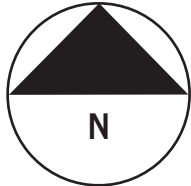
SHEET NO.
P-0
1 OF 5 SHEETS



LEGEND

COLOR BELOW IS NOT REPRESENTATIVE OF AN ACTUAL PAINT COLOR AND USED TO DESIGNATE WHERE THE ACCENT BODY COLOR IS LOCATED. SEE SHEET P-2 FOR SPECIFIC PAINT PRODUCTS & COLORS.

ACCENT BODY COLOR P-2



SITE PLAN SUPPLIED
BY GOOGLE MAPS

PREPARED BY KIPKEMOI DESIGN, LLC COLOR CONSULTANT 864 GRAND AVENUE #301 SAN DIEGO, CA 92109	LAUREL ELEMENTARY 1410 LAUREL STREET OCEANSIDE, CA 92058	
PREPARED FOR OCEANSIDE UNIFIED SCHOOL DISTRICT 2111 MISSION AVENUE, OCEANSIDE CA 92058	SITE PLAN & VIEW LOCATIONS EXTERIOR PAINT PROJECT	
BID NO.	2023-01-055B	
DATE	11/01/2022	
REVISIONS		
SHEET NO.	P-1 2 OF 5 SHEETS	

GENERAL NOTES

- 1) BASIS OF DESIGN AND PAINT SPECIFICATIONS BASED UPON SHERWIN WILLIAMS OR EQUAL. FOR ALL SPECIFIED COLORS NOTED HEREIN, PROVIDE 3QTY FULL SET OF DRAW-DOWNS INCLUDING ALL FINISHES TO COLOR CONSULTANT FOR FINAL APPROVAL PER SPECIFICATION PRIOR TO PAINTING. COLOR LOCATIONS AND CONDITIONS TO BE VERIFIED. CONTACT DISTRICT SHERWIN WILLIAMS REP KEVIN FLANAGAN CELL: (760) 688-6570 EMAIL: KEVIN.D.FLANAGAN@SHERWIN.COM WITH QUESTIONS.
- 2) ALL PAINTED EXTERIOR STUCCO, MASONRY, CONCRETE, METAL AND WOOD SURFACES - POWER-WASH & THOROUGHLY CLEAN, PREP, REPAIR, PATCH ALL SIGN HOLES, PRIME AND PAINT PER SPECIFICATION INCLUDING 4" BELOW GRADE ALONG WALLS AND FOOTINGS. AT AREAS WITH LANDSCAPING, PULL LANDSCAPING BACK AND PROTECT FROM PAINT SPLATTER.
- 3) **ALL SIGNS ON PAINTED WALLS & DOORS/FRAMES/ARCHITECTURAL FENCING/GATES INCLUDING ROOM IDS, BUILDING IDS INDIVIDUAL LETTERS, METAL PANELS (NO TRESPASSING, CAMPUS RULES, KEEP GATE CLOSED, ETC) - TO BE REMOVED. SAVE BUILDING IDS AND METAL PANELS FOR RE-INSTALLATION BY SIGNAGE CONTRACTOR. DO NOT REMOVE CAST METAL PLAQUES OR SIGNS ON GLASS. THOROUGHLY PATCH ALL HOLES PER SPECIFICATIONS.**
- 4) ALL STUCCO & PAINTED CONCRETE - PATCH STUCCO AND PAINT AS NOTED PER SPECIFICATION AND HEREIN USING SHERWIN WILLIAMS LATITUDE EXTERIOR ACRYLIC LATEX SATIN FINISH. SPRAY AND BACKROLL PRIMER AND PAINT PER SPECIFICATION.
- 5) PAINTED METAL INCLUDING INTERIOR & EXTERIOR SIDES OF DOORS, EXTERIOR FRAME SYSTEM (CUT PAINT AT DOOR STOP), PAINTED ROLL UP DOORS, LOUVERS IN DOORS, FENCING & GATES, STORAGE CONTAINERS, TUBE STEEL, GUTTERS, ARCHITECTURAL METAL DETAILS, RAILINGS, LADDERS, AND METAL RAMPS - PAINT AS NOTED HEREIN USING SHERWIN WILLIAMS PROINDUSTRIAL ACRYLIC SEMI-GLOSS FINISH PER SPECIFICATION.
- 6) METAL LUNCH SHELTER UNDERSIDE - PAINT AS NOTED HEREIN USING SHERWIN WILLIAMS PROINDUSTRIAL ACRYLIC EG-SHEL FINISH PER SPECIFICATION.
- 7) PREFINISHED WINDOW FRAMES - TO BE CLEAN PER SPECIFICATION AND REMAIN UNPAINTED U.N.O.
- 8) PAINTED METAL (GALVANIZED AND FERROUS) INCLUDING FLASHINGS, COPING, DOWNSPOUTS, PIPES, CONDUIT, SPEAKER HOUSINGS, LOUVERS IN WALLS/CEILINGS AND ALUMINUM REVEALS - PAINT COLOR OF ADJACENT SURFACE, CUTTING COLOR AS NEEDED FOR UNIFORM LOOK U.N.O. USING SHERWIN WILLIAMS LATITUDE EXTERIOR ACRYLIC LATEX SATIN FINISH PER SPECIFICATION.
- 9) WOOD PANEL SUBSTRATES INCLUDING PLYWOOD, T-111 SIDING, FASCIAS, AND SOFFITS - PAINT AS NOTED HEREIN USING SHERWIN WILLIAMS LATITUDE EXTERIOR ACRYLIC LATEX SATIN FINISH PER SPECIFICATION. THOROUGHLY BACKROLL PRIMER AND PAINT FINISH COAT WITH MANUFACTURES RECOMMENDED ROLLER PER SPECIFICATION.
- 10) WOOD DOORS & TRIM - PAINT AS NOTED HEREIN USING SHERWIN WILLIAMS PROINDUSTRIAL ACRYLIC SEMI-GLOSS FINISH PER SPECIFICATION.
- 11) SECURITY CAMERAS, MURALS, PLAQUES, DIGITAL MARQUEE, UTILITY COMPANY SIGNAGE, PREFINISHED ROOF, DRINKING FOUNTAIN & DECORATIVE TILE, LIGHT FIXTURES, UNPAINTED CONCRETE, HARDSCAPE, AND ALL PREFINISHED AND UNPAINTED MATERIALS INCLUDING DOORS, FRAMES, RAILINGS, HVAC UNITS, VENTS, ACCESS PANELS, FIRE SAFETY EQUIPMENT - REMAIN UNPAINTED U.N.O. POWER-WASH & CLEAN PER SPECIFICATION THEN MASK AND PROTECT SURFACE FROM PAINT SPLATTER. COORDINATE COVERING SECURITY CAMERAS WITH DISTRICT. ANYTHING NOT COVERED HEREIN MUST BE BROUGHT TO THE COLOR CONSULTANTS ATTENTION FOR REVIEW.
- 12) STANDALONE STORAGE CONTAINERS - PAINT P-2 USING SHERWIN WILLIAMS PROINDUSTRIAL ACRYLIC SEMI-GLOSS FINISH PER SPECIFICATION
- 13) NONSKID DECK COATING FOR RAMPS - PAINT USING SHERWIN WILLIAMS PORCH & FLOOR ENAMEL PRE-MIXED WITH 100# SILICA SAND PER MANUFACTURER'S RECOMMENDATION, COLOR SHERWIN WILLIAMS, COLOR TBD.
- 14) REPAINT ALL FIRE HYDRANTS, WATER UTILITIES, FIRE EQUIPMENT, AND GAS LINES TO MATCH EXISTING COLORATION PER FIRE DEPARTMENT REQUIREMENTS & DISTRICT STANDARDS. MAIN CAMPUS FIRE HYDRANTS TO BE PAINTED SAFETY RED. BOLLARDS TO BE PAINTED SAFETY YELLOW. GAS LINES TO BE PAINTED GRAY. CLEAN, PREP, REPAIR AND PRIME PER SPECIFICATION. PAINT WITH COLORS AS NOTED HEREIN USING SHERWIN WILLIAMS PROINDUSTRIAL ACRYLIC SEMI-GLOSS FINISH PER SPECIFICATION:
- RED: SHERWIN WILLIAMS, SAFETY RED

- BLUE: SHERWIN WILLIAMS, SAFETY BLUE

- YELLOW: SHERWIN WILLIAMS, SAFETY YELLOW

- WHITE: SHERWIN WILLIAMS, WHITE

- GREEN: SHERWIN WILLIAMS, RAIN FOREST #SW4071

- GAS LINE GRAY: SHERWIN WILLIAMS, GRIZZLE GRAY #SW7068
- 15) ADDITIONAL PAINT STOCK - PROVIDE AN UNOPENED 1 GALLON CONTAINER TO DISTRICT OF PAINT FOR EACH COLOR, TYPE AND FINISH. DISTRICT WILL NOT ACCEPT ANY USED PAINT.
- 16) ANY CLARIFICATION OF PAINT LOCATIONS NOT COVERED HEREIN MUST BE BROUGHT TO THE COLOR CONSULTANT'S ATTENTION FOR REVIEW.

PAINT COLOR LEGEND



P-1 (MAIN BODY)
TBD



P-2 (ACCENT BODY COLOR)
TBD



P-3 (FASCIA / GUTTER / COLUMNS / DOORS)
TBD



P-4 (FENCE / GATES)
TBD

PAINT COLORS PENDING DISTRICT APPROVAL.

PREPARED BY
KIPKEMOI DESIGN, LLC COLOR CONSULTANT
864 GRAND AVENUE #301 SAN DIEGO, CA 92109

PREPARED FOR
OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 MISSION AVENUE, OCEANSIDE CA 92058

LAUREL ELEMENTARY
1410 LAUREL STREET
OCEANSIDE, CA 92058

GENERAL NOTES & PAINT LEGEND
EXTERIOR PAINT PROJECT

BID NO.
2023-01-055B

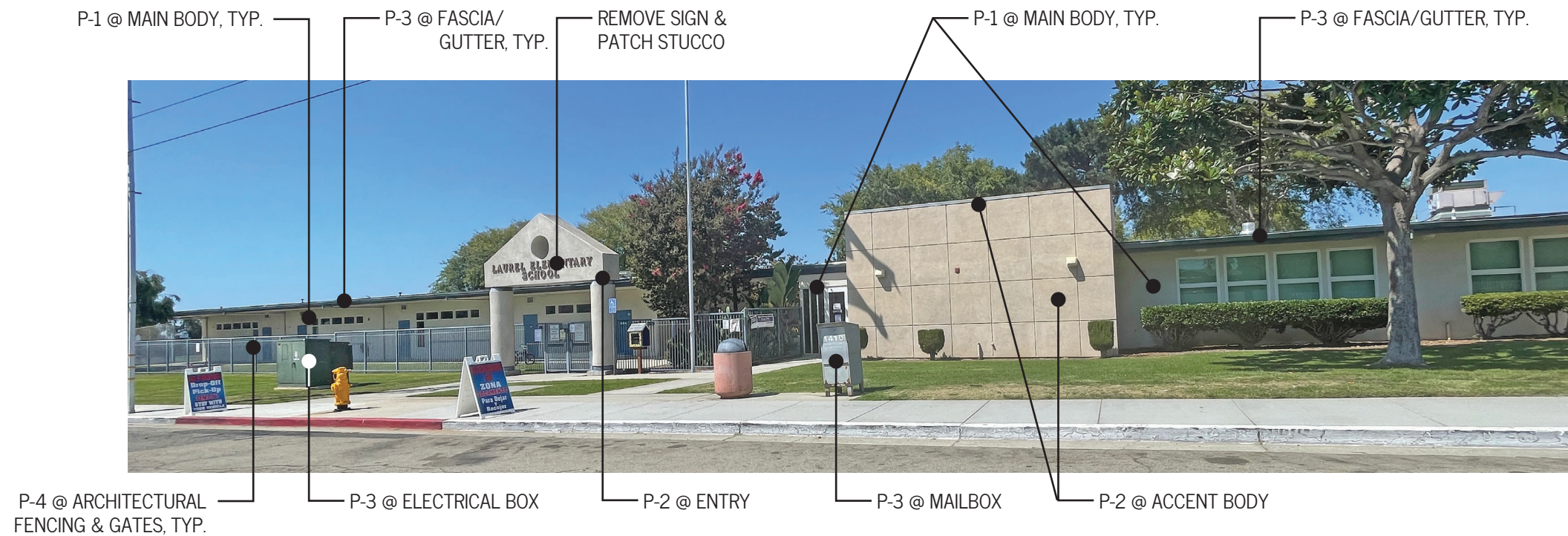
DATE
11/01/2022

REVISIONS

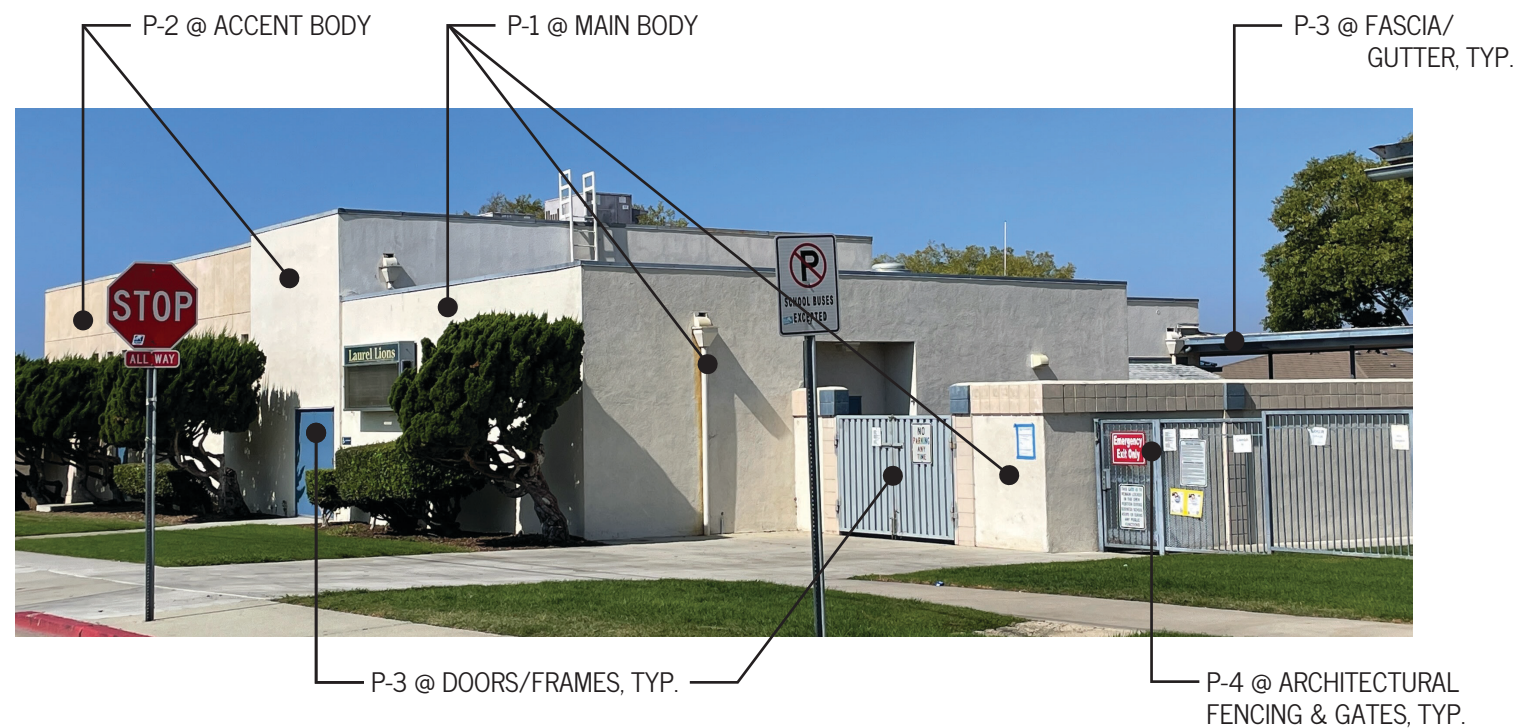
SHEET NO.

P-2

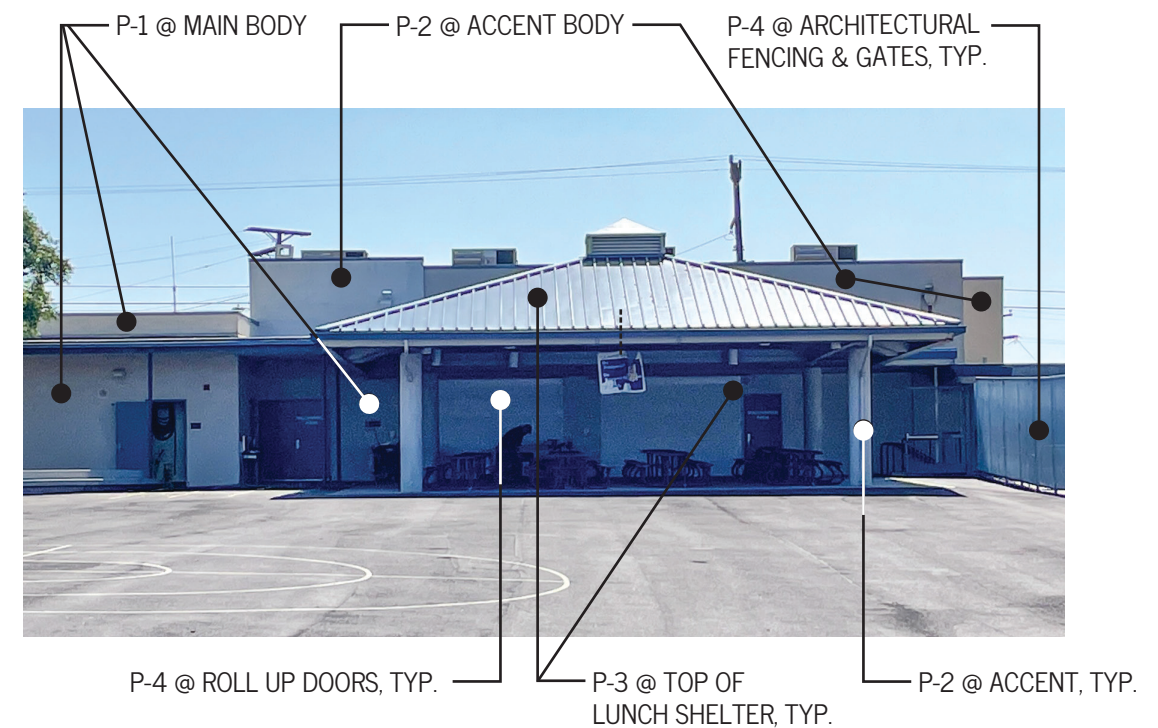
3 OF 5 SHEETS



VIEW 1 FRONT OF SCHOOL BUILDING B & ADMINISTRATION - TYPICAL AT THIS CONDITION



VIEW 2 MPR BUILDING - TYPICAL AT THIS CONDITION



VIEW 3 LUNCH SHELTER - TYPICAL AT THIS CONDITION

GENERAL NOTES

- NOTE 1: REFER TO PAINT LEGEND ON SHEET P-2 FOR SPECIFIC COLORS & FINISHES AND DETAILS. PHOTOS SHOW CURRENT CONDITIONS,
- NOTE 2: FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 7, 8, & 10, CFC AND TITLE 19 REQUIREMENTS.

PREPARED BY
KIPKEMOI DESIGN, LLC COLOR CONSULTANT
864 GRAND AVENUE #301 SAN DIEGO, CA 92109

PREPARED FOR
OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 MISSION AVENUE, OCEANSIDE CA 92058

LAUREL ELEMENTARY
1410 LAUREL STREET
OCEANSIDE, CA 92058

PAINT LOCATION VIEWS 1 - 3
EXTERIOR PAINT PROJECT

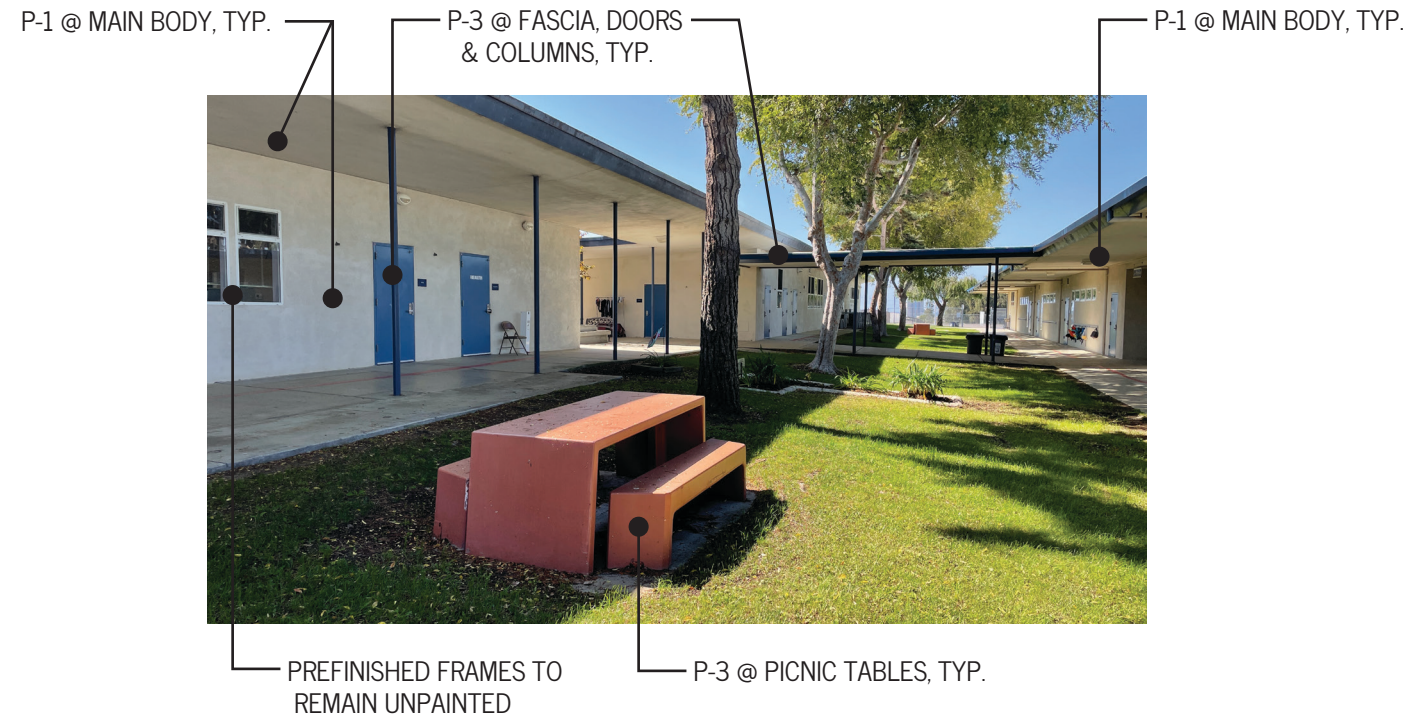
BID NO.
2023-01-055B

DATE
11/01/2022

REVISIONS

SHEET NO.

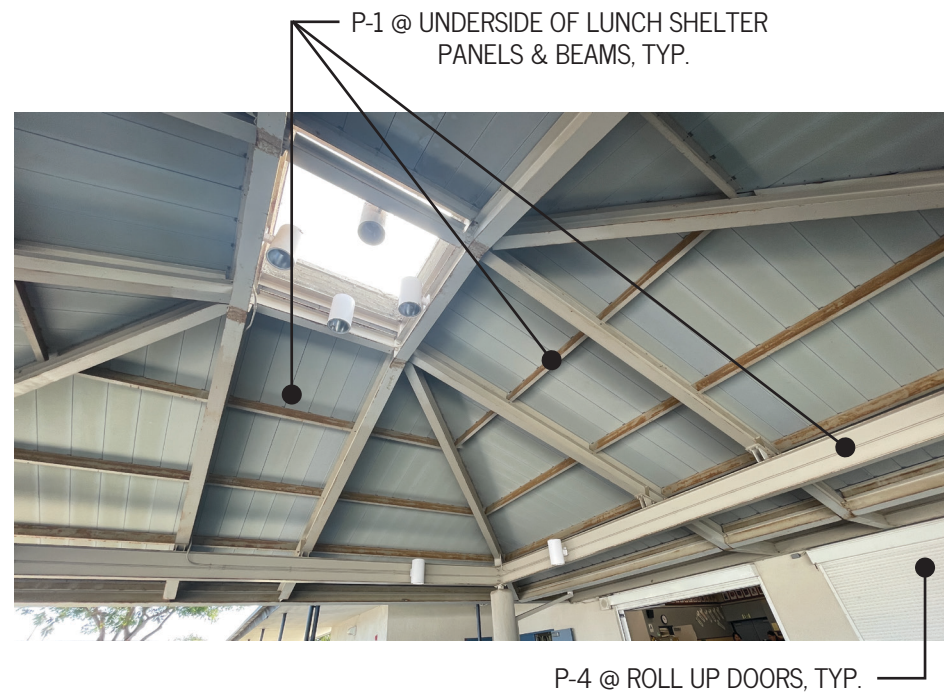
P-3
4 OF 5 SHEETS



VIEW 4 ADMINISTRATION AND BUILDINGS B & F - TYPICAL AT THIS CONDITION



VIEW 5 BUILDING M - TYPICAL AT THIS CONDITION



VIEW 6 UNDERSIDE OF LUNCH SHELTER - TYPICAL AT THIS CONDITION



VIEW 7 ADMINISTRATION AND LUNCH SHELTER - TYPICAL AT THIS CONDITION

GENERAL NOTES

- NOTE 1: REFER TO PAINT LEGEND ON SHEET P-2 FOR SPECIFIC COLORS & FINISHES AND DETAILS.
- NOTE 2: FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 7, 8, & 10, CFC AND TITLE 19 REQUIREMENTS.

PREPARED BY
KIPKEMOI DESIGN, LLC COLOR CONSULTANT
864 GRAND AVENUE #301 SAN DIEGO, CA 92109

PREPARED FOR
OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 MISSION AVENUE, OCEANSIDE CA 92058

LAUREL ELEMENTARY
1410 LAUREL STREET
OCEANSIDE, CA 92058

PAINT LOCATION VIEWS 4 - 7
EXTERIOR PAINT PROJECT

BID NO.
2023-01-055B

DATE
11/01/2022

REVISIONS

SHEET NO.
P-4
5 OF 5 SHEETS

Exhibit B – Project Specifications

PROJECT MANUAL

Construction Document Specifications
for

Exterior Paint Project

at

Laurel Elementary
1410 Laurel St, Oceanside, CA 92058

prepared for

Oceanside Unified School District
2111 Mission Avenue, Oceanside, CA 92058

Bid No. 2023-01-055B

November 1, 2022

TABLE OF CONTENTS

09 24 00 PORTLAND CEMENT PLASTERING

09 91 13 EXTERIOR PAINTING

SECTION 09 24 00 - STUCCO PATCHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes all labor, materials, and equipment necessary for patching of previously painted stucco from sign removal and existing large cracks, voids, and holes.
- B. Related Sections: The work of the following sections applies to the work of this section. Other sections of the specifications, not referenced below, shall also apply to the extent required for proper performance of this work.
 - 1. 09 91 13 – Exterior Painting

1.3 REFERENCES

- A. ASTM C150 – Portland Cement
- B. ASTM C897/C144 - Aggregate for Job-Mixed Portland Cement-Based Plaster
- C. ASTM C834 - Latex Sealants
- D. ASTM C920 - Elastomeric Joint Sealants
- E. ICC-ES ESR-1194
- F. ICC-ES Acceptance Criteria for Water-resistive Barriers (AC308)
- G. Omega Diamond Wall One Coat Systems Details (DWS)

1.4 SYSTEM DESCRIPTION

- A. General: The Diamond Wall One Coat System is an exterior stucco system comprised of Diamond Wall base coat mixed with AkroLoc bonder to fill holes, large cracks, and voids prior to applying OmegaFlex finish coat for texture.
- B. Methods: The systems are applied directly to a structure at the construction site before priming and painting per section 09 91 13.

1.5 SUBMITTALS

- A. Product Data: For each system specified.
 - 1. Material List: Provide an inclusive list of required system materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
 - 2. Manufacturer's Information: Provide manufacturer's technical information, including manufacturer's material safety data sheet, warranty, label analysis and instructions for handling, storing, and applying each system material proposed for use.
- B. Samples for Verification: For each type of product indicated submitted upon request.
 - 1. Retain approved samples at the construction site throughout the application process.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: System component materials shall be manufactured or approved by manufacture and shall be distributed by the same or its authorized dealers.
- B. Plastering Contractor:
 - 1. Shall specialize in cement plasterwork with documented experience.
 - 2. Shall provide proof of current contractor's license and bond where required.
 - 3. Shall show proof of current approved applicator certificate issued by manufacture.
- C. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Prior to commencement of work, provide a mock-up area patching 2 room ID signs for approval.
 - 2. Mock-up suitable to represent the products to be installed for each color and texture constructed using the same tools and techniques to be utilized on the project.
 - 3. Retain approved mock-up at job site throughout the application process.
 - 4. Where acceptable to the District Representative, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVER, STORAGE, AND HANDLING

- A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
 - 1. Product name or title of material.
 - 2. Product description (generic classification or binder type).
 - 3. Manufacturer's stock number and date of manufacture.
 - 4. Contents.
 - 5. Thinning instructions.
 - 6. Application instructions.
 - 7. Color name and number.
 - 8. VOC content.
- B. Store unused materials in tightly covered containers in a cool, dry location; away from direct contact with the ground and/or concrete; out of direct sunlight; and protect from weather and other damage. Storage to be clean, and free of foreign materials and residue. Store all products per manufacturer's recommendations.
 - 1. Keep storage area neat and orderly.
 - 2. Remove rags and waste daily.
 - 3. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.8 PROJECT CONDITIONS

- A. Environmental Requirements: Follow product manufacturer's recommendations for environmental conditions and surface preparation.
 - 1. Temperatures: Before, during and following the application of the Diamond Wall One Coat System, the ambient and surface temperatures must remain above 40°F (4°C) for a minimum period of 24 hours. Protect stucco from uneven and excessive evaporation, especially during hot, dry, and/or windy weather. Protect Diamond Wall stucco from freezing for a period of not less than 24-hours after set has occurred.

2. Substrates: Prior to installation, inspect the wall for surface contamination or other defects that may adversely affect the performance of the materials, and shall be free of residual moisture. Do not apply Diamond Wall stucco to substrates whose temperature are less than 40°F (4°C) or contain frost or ice.
3. Inclement Weather: Protect applied material from inclement weather until dry.

1.9 SEQUENCING AND SCHEDULING

- A. Sequencing: Patchwork repairs to be completed before priming and painting. Use Diamond Wall One Coat System mixed with AkroLoc per and OmegaFlex 100% acrylic-based finish manufactured by Omega Products International, Inc. per manufactures recommendation.
- B. Staffing: Provide sufficient manpower to ensure continuous operation, free of cold joints, scaffolding lines, variations in texture, etc.

1.10 WARRANTY

- A. System Warranty: Submit documentation on Diamond Wall's standard system warranties. At completion of work, provide written system warranty documentation.
- B. Warranty Length: 7 years commencing at the time of substantial completion. See Omega Product's System Warranties for more information. The warranty length can vary depending upon the combination of products used in the system.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Material Compatibility: Provide materials for use within each system 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.
- B. Where a specific name is not given for a product or ingredient, provide item of the best quality of the approved manufacturer, which is normally used for the intended purpose.

2.2 MANUFACTURERS:

- A. Available Manufacturers: Omega Products International, Inc. products are the basis of design and specified to establish expected level of quality. Subject to compliance with requirements, manufacturers offering comparable products may be incorporated into the work as an equal.
- B. Comparable products: Products must meet performance and physical characteristics of basis of design products.
- C. Source Limitations: Obtain materials from single source from single listed manufacturer.

2.3 ONE COAT STUCCO BASE COAT

- A. Diamond Wall Concentrate: A factory prepared blend of portland cement complying with C150, chopped fibers, and proprietary ingredients manufactured by Omega Products International, Inc.
- B. Diamond Wall Sanded: A factory prepared blend of portland cement complying with C150, sand, chopped fibers, and proprietary ingredients manufactured by Omega Products International, Inc.
- C. Sand:
 1. Sand must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter.

2. Sampling and testing must comply with ASTM C144 or C897.
3. Sand must be graded in accordance with ASTM C144 or C897 or within the following limits:

RETAINED ON U.S. STANDARD SIEVE	PERCENT RETAINED BY WEIGHT ± 2 PERCENT	
	Natural Sand	Manufactured Sand
	Min. / Max	Min. / Max.
No. 4	0 / 0	0 / 0
No. 8	0 / 10	0 / 10
No. 16	10 / 40	10 / 40
No. 30	30 / 65	30 / 65
No. 50	70 / 90	60 / 80
No. 100	95 / 100	75 / 90

- D. Water: Clean and potable without foreign matter.
- E. AkroLoc: A 100% acrylic polymer bonder or admixture manufactured by Omega Products International, Inc per manufacturers recommendation.

2.4 FINISH

- A. OmegaFlex 100% acrylic-based finish manufactured by Omega Products International, Inc.
 1. Texture: Finish texture shall match surrounding texture at no additional cost to the owner.

2.5 MIXES

- A. Diamond Wall Base Coat: Mixing requirements are contained in the Diamond Wall Concentrate product data sheets by Omega Products International, Inc. and the ICC-ES ESR-1194. Add 4 to 7 quarts of Omega AkroLoc admix per sack of Diamond Wall Concentrate per manufactures recommendation.
- B. Finishes: Mixing and tinting instructions are contained in the appropriate product data sheets by Omega Products International, Inc.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions with the Owner present, under which stucco patching will be performed. Surfaces that cannot be prepared or painted as specified shall be brought to the attention of the Owner in writing.
 1. Do not begin to apply stucco patching until unsatisfactory conditions have been corrected and surfaces are thoroughly dry.
 2. Acceptable substrates must be securely fastened per applicable building code requirements.
 3. Start of stucco patching will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 1. Notify the District Representative about anticipated problems using the materials specified over substrates.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations as applicable to substrates and systems indicated.
- B. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 1. Sign Removal: Remove all existing signs on walls, ceilings, such as room IDs, building & school name individual letters/numbers, and metal panels prior to power-washing to remove debris and loose or peeling materials.
 - 2. After completing operations in each space or area, reinstall items (except signs) removed using workers skilled in the trades involved.
 - 3. Do not cover labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- C. Cleaning: Before applying, clean the substrates ensuring there are no foreign materials present that could impair the bond of the various coatings. Remove oil, grease, dirt, dust from release agents, efflorescence, wax, water replants, moisture, frost, extended nails that may rupture the barrier and loose, peeling or incompatible paints before cleaning.
 - 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on newly patched or painted surfaces.
 - 2. Power-wash all exterior surfaces. Clean any visible run-off. Test PSI in an inconspicuous spot to ensure the power-washing will not harm the prefinished coating or erode the block face and mortar joints.
 - 3. Remove incompatible primers and re-prime substrate with compatible primers as required to produce paint systems indicated per specification.
- D. Preparation of previously painted surfaces for stucco patching:
 - 1. After cleaning surfaces, remove loose paint and stucco by wet sanding or wet scraping. Comply with requirements of the Lead and Asbestos abatement specifications and Cal/OSHA requirements for handling lead in construction (if applicable). **Failure to protect a school site from lead and/or asbestos contamination will result in the immediate removal of the subcontractor from this Project.** When removing loose and flaking paint, feather all edges by wet sanding and prime within four hours.
 - 2. Remove existing foreign items such as nails, staples & tape. Hammer down or tighten loose nails and screw. Do not apply materials on surfaces until they are properly fastened.
 - 3. Holes, large cracks and voids must be routed out and opened to a sound surface. Lightly sand to create an even, flush surface. Flush out the opening to remove all dust. Fill holes and cracks as required herein.
- E. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
 - 1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - 2. Stir material as required before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
 - 3. Use only thinners approved by manufacturer and only within recommended limits.

3.3 APPLICATION

- A. General: Apply stucco patching materials according to manufacturer's written instructions and recommendations. Refer to ICC-ES ESR-1194 or the appropriate manufacturer's product data sheet for additional installation requirements and recommendations. Use applicators and techniques best suited for substrate and type of material being applied. **The District Representative reserves the right to inspect all phases of the surface preparation and application. Each step for each building can be inspected including cleaning, preparation, base coat and each finish coat. If the District Representative finds any step failing to meet specifications it will result in re-work and re-inspection back charges to the Contractor. The District Representative reserves the right to ask the Contractor to make a checklist to be approved by the District Representative to be used for all operations.**
1. Do not apply over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable smooth paint film.
 2. Correct all previously repaired areas to match surrounding wall surfaces. Re-texture surfaces as required to achieve a uniform finished surface and to conceal large cracks, holes and other blemishes.
 3. Seal the surface with manufactures approved primer to bind any remaining dust to the surface.
 4. If undercoats or other conditions show through painted topcoat, at NO ADDITIONAL COST TO THE OWNER, repair and reapply additional coats as required to achieve a uniform finish, color and appearance, and without surface imperfections.
 5. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned-tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.
- B. Scheduling Stucco Patching: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for stucco patching as soon as practical after preparation and before subsequent surface deterioration.
1. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer.
- C. Installing Diamond Wall Base Coat: The exterior cementitious coating is applied by hand-troweling for patching to fill holes, large cracks, and voids per manufactures recommendation. The product must be smoothed over the repair area enough to prevent filler from falling into the hole and may require multiple coats. Feather edges smooth to prevent the repaired area from telegraphing through the subsequent finishes to achieve a uniform finished surface. Minimum and maximum thicknesses per manufactures recommendation.
1. Moist Curing: Moist curing must be provided for a minimum 24 hours after coating applications. The length of time and most effective procedure for moist curing will depend on climatic and job conditions.
- D. Install OmegaFlex Finish Coat: Apply per manufactures product data sheet and recommendation. Texture to match surrounding surfaces.
- E. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 FIELD QUALITY CONTROL

- A. The Owner reserves the right to invoke the following test procedure at any time and as often as the Owner deems necessary during the period when paint is being applied:

1. The Owner will engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the project will be taken, identified, sealed, and certified in the presence of the Contractor.
2. The Owner may direct the Contractor to stop stucco patching if test results show material being used does not comply with specified requirements. The Contractor shall remove noncomplying materials from the site, pay for testing, and resurface previously coated areas with the rejected materials.

3.5 SITE CLEANING

- A. Cleanup: At the end of each workday, remove empty containers, debris, rags, rubbish, and other discarded materials from the site. Do not use drinking fountains or restroom sinks to clean materials.
 1. After completing, clean all glass and spattered surfaces. Be careful not to scratch or damage adjacent finished surfaces. **Do not leave any surplus materials at the school site.**

3.6 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage by stucco patching. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Owner.
- B. Remove temporary protective wrappings provided by others to protect their work after completing operations.
 1. At completion of construction activities of other trades, touch up and restore damaged or defaced surfaces.

END OF SECTION 09 24 00

SECTION 09 91 13 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes surface preparation and the application of exterior paint systems restoration, preparation, and the application of paint systems to previously painted substrates and new stucco patching. Exterior substrates to be re-painted include the following:
 - 1. Concrete.
 - 2. Clay masonry.
 - 3. Concrete block.
 - 4. Ferrous metal.
 - 5. Galvanized metal (previously painted only).
 - 6. Aluminum (not anodized or otherwise coated).
 - 7. Wood.
 - 8. Plastic trim fabrications.
 - 9. Exterior Portland cement (stucco).
 - 10. Exterior gypsum board.
- B. Related Sections: The work of the following sections applies to the work of this section. Other sections of the specifications, not referenced below, shall also apply to the extent required for proper performance of this work.
 - 1. 09 24 00 – Stucco Patching
- C. Paint all exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether or not schedules indicate colors.
 - 1. Painting includes field priming and painting of exposed bare and covered pipes and ducts, hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.
 - 2. Paint all gas valves per District standard and stencil “Gas Shut Off Valve” on wall above valve with 3” letters.
- D. Do not paint prefinished items, concealed surfaces, finished metal surfaces, galvanized metal (other than conduit), operating parts, artistic works, and labels. Prefinished items include the following factory-finished components:
 - 1. Factory finished architectural woodwork and casework.
 - 2. Elevator equipment.
 - 3. Finished mechanical and electrical equipment.
 - 4. Light fixtures, unless otherwise noted.
 - 5. Signage.
 - 6. Plastic electrical surface mounted raceway (note: paint metal raceway and previously painted raceway).
 - 7. Artistic works on concrete and stucco walls.

- E. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:
 - 1. Foundation spaces.
 - 2. Furred areas.
 - 3. Utility tunnels.
 - 4. Pipe spaces.
 - 5. Duct shafts.
 - 6. Elevator shafts.
- F. Operating parts include moving parts of operating equipment and the following:
 - 1. Valve and damper operators.
 - 2. Linkages.
 - 3. Sensing devices.
 - 4. Motor and fan shafts.
- G. Labels: Do not paint over Underwriters Laboratories (UL), Factory Mutual (FM), or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

1.4 DEFINITIONS

- A. General: Standard coating terms defined in ASTM D 16 apply to this Section.
 - 1. Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree meter.
 - 2. Eggshell refers to low-sheen finish with a gloss range between 5 and 20 when measured at a 60-degree meter.
 - 3. Satin refers to low-sheen finish with a gloss range between 15 and 35 when measured at a 60-degree meter.
 - 4. Semi-gloss refers to medium-sheen finish with a gloss range between 30 and 65 when measured at a 60-degree meter.
 - 5. Full gloss refers to high-sheen finish with a gloss range more than 65 when measured at a 60-degree meter.

1.5 SUBMITTALS

- A. Product Data: For each paint system specified. Include block fillers, sealers, and primers.
 - 1. Material List: Provide an inclusive list of required paint system materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
 - 2. Manufacturer's Information: Provide manufacturer's technical information, including manufacturer's material safety data sheet, label analysis and instructions for handling, storing, and applying each paint system material proposed for use.
 - 3. Certification by the manufacturer that products supplied comply with the governing regulations controlling use of volatile organic compounds (VOCs).
- B. Samples for Initial Selection: For each type of topcoat product indicated.
- C. Samples for Verification: For each type of paint system including each color and gloss of topcoat indicated. "Drawdown" samples to be approved by Color Consultant.
 - 1. Submit drawdown samples on rigid backing, minimum 8 inches square.
 - 2. Step coats on samples to show each coat required for system.
 - 3. Label each coat of each sample.
 - 4. Label each sample for location and application area.

D. Product List: For each product indicated, include the following:

1. Cross-reference to paint system and locations of application areas. Use same designations indicated on drawings and in schedules.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain block fillers, primers, sealers and undercoat materials for each coating system from the same manufacturer as the finish coats.
- B. The quantity of Volatile Organic Compounds (VOC) used in paint products shall not exceed the limits permitted under current regulations for architectural coatings of the South Coast Air Quality Management District.
- C. Preparation and Workmanship: Comply with manufacturer written requirements for products and paint systems indicated.
- D. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Owner will select one surface to represent surfaces and conditions for application of each coating system specified in Part 3. Provide samples of at least 150 sq. ft.
 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Color Consultant at no added cost to Owner.
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Color Consultant specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
 1. Product name or title of material.
 2. Product description (generic classification or binder type).
 3. Manufacturer's stock number and date of manufacture.
 4. Contents by volume, for pigment and vehicle constituents.
 5. Thinning instructions.
 6. Application instructions.
 7. Color name and number.
 8. VOC content.
- B. Store unused materials in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F. Storage to be clean, and free of foreign materials and residue.
 1. Protect from freezing.
 2. Keep storage area neat and orderly.
 3. Remove oily rags and waste daily.
 4. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.8 PROJECT CONDITIONS

- A. Do not apply paint in snow, rain, fog, or mist; or when the relative humidity exceeds 85 percent; or at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide materials for use within each paint system 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.
- B. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- C. Colors: Provide color selections as documented and made by the Owner.
- D. Do not thin primers, paints or sealers. Use all materials as they come from the container, except as otherwise approved.
- E. Tint undercoats to gray as recommended by the manufacturer when applying top coats with dark or vibrant colors. Use manufacturers recommended base color for all paint colors and products. Obtain approval of colors before proceeding with the finishing operations.
- F. Where a specific name is not given for a product or ingredient, provide item of the best quality of the approved manufacturer, which is normally used for the intended purpose.

2.2 COLOR SELECTION:

- A. Paint and finish colors will be selected by the Owner from manufacturer's entire range of standard and custom color selections and special colors selected to match or compliment the colors of other materials, equipment, or components which comprise the work.
- B. Unless otherwise indicated, paint previously painted access doors, registers, exposed piping, electrical conduit and mechanical/electrical panels the same color as adjacent walls.
- C. Unless otherwise indicated, paint exterior doors, frames and trim a contrasting color to adjacent walls.
- D. Unless otherwise indicated, paint doors the same color as each other.
- E. Unless otherwise indicated, paint exterior steel fabrications a contrasting color to adjacent walls.

2.3 MANUFACTURERS

- A. Available Manufacturers: Sherwin Williams products are the basis of design and specified to establish expected level of quality. Subject to compliance with requirements, manufacturers offering comparable products that may be incorporated into the work include the following:
 - 1. Benjamin Moore,
 - 2. PPG,
 - 3. Or Dunn Edwards.

- B. Comparable products: Products must meet performance and physical characteristics of basis of design product including published ratio of solids by volume, plus or minus two percent.
- C. Source Limitations: Obtain paint materials from single source from single listed manufacturer.
 - 1. Manufacturer's designations listed on a separate color schedule are for color reference only and do not indicate prior approval.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions with the Owner present, under which painting will be performed. Surfaces that cannot be prepared or painted as specified shall be brought to the attention of the Owner in writing.
 - 1. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
 - 2. Masonry (clay and concrete): 12 percent.
 - 3. Wood: 15 percent.
 - 4. Plaster: 12 percent.
 - 5. Gypsum Board: 12 percent.
- C. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 - 1. Notify the Owner about anticipated problems using the materials specified over substrates primed by others.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations as applicable to substrates and paint systems indicated.
- B. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
 - 2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 3. To the greatest extent practical, maintain natural ventilation during and after application of coatings.
- C. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil, grease, dirt, dust from release agents, efflorescence, wax, water replants, moisture, frost, extended nails that may rupture the barrier and incompatible paints before cleaning.
 - 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

2. For re-painting projects, power-wash all exterior surfaces. Clean any visible run-off. Test PSI in an inconspicuous spot to ensure the power-washing will not harm the prefinished coating or erode the block face and mortar joints.
3. Remove incompatible primers and re-prime substrate with compatible primers as required to produce paint systems indicated.

D. Preparation of previously painted surfaces:

1. Clean surfaces of loose dirt and dust. Remove loose paint by wet sanding or wet scraping. Comply with requirements of the Lead and Asbestos abatement specifications and Cal/OSHA requirements for handling lead in construction (if applicable). **Failure to protect a school site from lead and/or asbestos contamination will result in the immediate removal of the subcontractor from this Project.** When removing loose and flaking paint, feather all edges by wet sanding and prime within four hours.
2. Remove existing foreign items such as nails, staples & tape. Hammer down or tighten loose nails and screws and replace missing nails and screws and other fasteners. Do not paint loose wood, trim, gypsum board or other surfaces until they are properly fastened.
3. Fill holes and blemished wood surfaces with wood patching compound and spot prime.
4. Voids around doors, windows, fixtures, other permanent items shall be caulked with Shermax Urethane Caulking, or an equal sealant compound. Gaps and crevices between metal overhangs shall be filled with White Lightning STOP GAP!, or equal. Spot prime patched and repaired areas with a primer-sealer as recommended by the paint manufacturer for the surfaces to be refinished.
5. **Sign Removal:** Remove all existing signs on walls, ceilings, & metal doors/frames/fencing/gates such as room IDs, building & school name individual letters, and metal panels (no trespassing, campus rules, keep gate closed, etc) prior to power-washing to remove debris and loose or peeling paint.
 - a. **For metal surface hole repairs:** After power-washing surface, clean, prep, and fill all sign holes and uneven surfaces with Bondo All Purpose Putty or equal per manufacturer's recommendation to match existing surrounding surface. The product must be smoothed over the repair area enough to prevent filler from falling into the hole and may require multiple coats. Feather edges smooth to prevent the repaired area from telegraphing through the subsequent finishes to achieve a uniform finished surface. Additional metal preparation noted herein.
 - b. **For stucco patching:** See specification 09 24 00.
6. **Cementitious Material Substrates:** Prepare previously painted concrete, concrete masonry, clay masonry, and cement plaster surfaces to be painted and repair as needed. Remove all efflorescence, chalk, dust, dirt, grease, and loose or peeling paint by power-washing.
 - a. **For cracks from 1/32" to 1/8" (hairline cracks):** Lightly sand hairline cracks to create an even, flush surface. Full face prime all previously painted cementitious materials. Back-roll primer over hairline cracks to create a flush surface, being careful not to overfill primer to prevent any profiling/flashing.
 - b. **For holes, voids & cracks larger than 1/8" thick (cracks the thickness of a putty knife):** See specification 09 24 00 for stucco patching.
 - c. Seal the surface with Loxon Conditioner to bind any remaining dust to the surface.
7. Factory Finish, hard, slick, or glossy surfaces as scheduled including metal finishes on columns, light poles, doors, frames, handrails, poles, and associated surfaces:
 - a. Wash all surfaces with a compliant solvent or biodegradable detergent to remove all surface contaminants. Neutralize/rinse all surfaces as needed. Follow the manufacturers recommendation for solution strength and rinsing instructions. Allow all surfaces to dry.

- Cleaning the surfaces must be done prior to any sanding or abrading. This is to ensure that the contaminants will not be "burnt" into the surface during sanding.
- b. Sand all surfaces to provide a profile for the primer to adhere to. This should have the approximate roughness of 150 grit sandpaper. Remove all sanding dust.
 - c. Apply the specified primer as per the manufacturer's recommendations. Surface temperatures must be taken into consideration. These should be done as early in the day as possible to avoid priming a heated surface. Allow all surfaces to dry thoroughly. The top coat should be applied within 24 - 48 hours.
8. Previously Painted Ferrous and Non-Ferrous Metals: Clean all previously painted metal surfaces with Simple Green or equal, per SSPC-SP1. Prepare all metal by mechanical means by Hand Tool Cleaning per SSPC-SP2, Power Tool Cleaning per SSPC-SP3. Remove rust, oil, grease, dirt, and loose or peeling paint. Additionally, refer to paint manufacturer's recommendations for proper surface preparation of metal.
- a. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
 - b. Touch up bare areas and shop-applied prime coats that have been damaged, referencing the above surface preparation.
 - c. Any voids in the metal must be patched and primed. Rust must be removed from the affected metal area prior to patch and repair. Remove rust accordingly to SSPC recommendations. Depending on the size and severity of the rust, there are several methods for repair. Possible methods may include, but not limited to; using epoxy putty for small, dime-sized voids to welding a new metal panel over the affected area. Proper repair method is determined by the size and severity of the rust, which may require another trade to repair the damaged/rusted metal surface. The paint contractor will coordinate and oversee the metal repair work if another trade is needed to do such repairs.
9. Galvanized-metal substrates should not be chromate passivated (commercially known as "bonderized") if primers are field applied. If galvanized metal is chromate passivated, consult manufacturers for appropriate surface preparation and primers.
- a. Galvanized-Metal Substrates: Prepare surfaces as recommended by the paint manufacturer. Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
10. Aluminum Substrates: Remove surface oxidation.
11. Wood Substrates: Clean surfaces of dirt, oil, and other foreign substances with scrapers and sandpaper as required. Sand surfaces exposed to view smooth and dust off. Unless performed under containment by certified personnel, wet sand and wet scrape only. Perform all painting prep work in accordance with Lead and Asbestos specifications and all requirements of Cal/OSHA "Lead in Construction Special Emphasis Program".
- a. Scrape, sand, and clean all previously painted wood to remove all chalk, dirt, grease, and loose or peeling paint. Remove all loose and peeling paint back to tightly adhered coating.
 - b. Prime bottom edges of T-111 siding. Prime exposed ends, faces, and undersides of wood. Spot prime all bare wood and patched areas.
 - c. Replace plywood panels that are warped beyond repair.
 - d. After priming, fill holes and imperfections in wood with appropriate wood filler. Sand smooth when dried.
12. Plastic Trim Fabrication Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.
13. Plaster Substrates: Do not begin paint application until plaster is fully cured and dry.

14. Exterior Gypsum Board Substrates: Do not begin paint application until finishing compound is dry and sanded smooth.
- E. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
 3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.3 APPLICATION

- A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied. **The District Representative reserves the right to inspect all phases of the surface preparation and paint application. Each step for each building can be inspected including cleaning, preparation, prime coat, and each finish coat. If the District Representative finds any step failing to meet specifications it will result in re-work and re-inspection back charges to the Contractor. The District Representative reserves the right to ask the Contractor to make a checklist to be approved by the District Representative to be used for all painting operations.**
1. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable smooth paint film.
 2. Provide finish coats that are compatible with primers used.
 3. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convactor covers, covers for finned-tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.
 4. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before the final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 5. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
 6. Finish doors and fence on tops, bottoms, and side edges the same as faces.
 8. Sand lightly between each succeeding enamel coat.
 9. Two finish coats are specified. If undercoats or other conditions show through topcoat, at NO ADDITIONAL COST TO THE OWNER, apply additional coats of finish paint as required to achieve a uniform finish, color and appearance, without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practical after preparation and before subsequent surface deterioration.
1. The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
 2. Omit primer on metal surfaces that have been shop primed and touchup painted.

3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- C. Application Procedures: Apply paints and coatings by brush, roller, or spray according to manufacturer's written instructions.
 1. Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.
 2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
 3. Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required.
 - D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.
 - E. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces completely where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.
 - F. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
 - G. Transparent (Clear) Finishes: Use the required number of coats to produce a glass-smooth surface film of even luster. Provide a finish free of laps, runs, cloudiness, color irregularity, brush marks, orange peel, nail holes, or other surface imperfections.
 - H. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling, such as laps, irregularity in texture, skid marks, or other surface imperfections.
 - I. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 FIELD QUALITY CONTROL

- A. The Owner reserves the right to invoke the following test procedure at any time and as often as the Owner deems necessary during the period when paint is being applied:
 1. The Owner will engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the project will be taken, identified, sealed, and certified in the presence of the Contractor.
 2. The testing agency will perform appropriate tests for the following characteristics as required by the Owner:
 - a. Quantitative material analysis,
 - b. Abrasion resistance,
 - c. Apparent reflectivity,
 - d. Flexibility,
 - e. Washability,
 - f. Absorption,
 - g. Accelerated weathering,
 - h. Dry opacity,

- i. Accelerated yellowing,
 - j. Skinning,
 - k. Color retention.
3. The Owner may direct the Contractor to stop painting if test results show material being used does not comply with specified requirements. The Contractor shall remove noncomplying paint from the site, pay for testing, and repaint surfaces previously coated with the rejected paint. If necessary, the Contractor may be required to remove rejected paint from previously painted surfaces if, on repainting with specified paint, the 2 coatings are incompatible.

3.5 SITE CLEANING

- A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site. Do not use drinking fountains or restroom sinks to clean paint materials. Do not leave masking on buildings overnight.
 - 1. After completing painting, clean all glass and paint-spattered surfaces. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces. **Do not leave any surplus materials at the school site.**

3.6 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by District Representative.
- B. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
 - 1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.7 EXTERIOR PRIMING & PAINTING SCHEDULE

- A. Concrete Substrates:
 - 1. Stucco:
 - a. Full Body Prime: SW Loxon Primer or Conditioner - spray and back-roll
 - b. First Coat: SW Latitude Exterior Acrylic Latex Satin
 - c. Second Coat: SW Latitude Exterior Acrylic Latex Satin - spray and back-roll
 - 2. Painted Concrete:
 - a. Full Body Prime: SW Loxon Primer or Conditioner - spray and back-roll
 - b. First Coat: SW Latitude Exterior Acrylic Latex Satin
 - c. Second Coat: SW Latitude Exterior Acrylic Latex Satin - spray and back-roll
- B. Ferrous and Non-ferrous Metal Substrates:
 - 1. Flashings, copings, downspouts, conduit, flashings, vents, covers, fascia, soffit, speaker housing, panels & overhangs:
 - a. Full Prime: SW ProCryl Acrylic Metal Primer or Monopole Monobond Primer
 - b. First Coat: SW Latitude Exterior Acrylic Latex Satin or SW ProIndustrial Acrylic Eg-Shel
 - c. Second Coat: SW Latitude Exterior Acrylic Latex Satin or SW ProIndustrial Acrylic Eg-Shel
 - 2. Doors, trim, handrails, poles, gates, fences, bollards, and metal mesh panels:
 - a. Full Prime: SW ProCryl Acrylic Metal Primer or Monopole Monobond Primer
 - b. First Coat: SW ProIndustrial Acrylic Semi-Gloss
 - c. Second Coat: SW ProIndustrial Acrylic Semi-Gloss

3. Steel fire hydrants, water utilities, gas lines:
 - a. Full Prime: SW ProCryl Acrylic Metal Primer or Monopole Monobond Primer
 - b. First Coat: SW ProIndustrial Acrylic Semi-Gloss
 - c. Second Coat: SW ProIndustrial Acrylic Semi-Gloss
4. Metal areas with extensive rust:
 - a. Full Prime: SW Pro-Line 801 Rust Conversion Primer
 - b. First Coat: SW ProIndustrial Acrylic Eg-Shel or Semi-Gloss
 - c. Second Coat: SW ProIndustrial Acrylic Eg-Shel or Semi-Gloss

C. Wood Panel Substrates:

1. T-111 siding, plywood, fascia boards, soffit:
 - a. Full Prime: SW Preprite ProBlock Primer or Monopole Monobond Primer - spray and backroll
 - b. First Coat: SW Latitude Exterior Acrylic Latex Satin
 - c. Second Coat: SW Latitude Exterior Acrylic Latex Satin – spray and back-roll
2. Doors, trim:
 - a. Full Prime: SW Preprite ProBlock Primer or Monopole Monobond Primer
 - b. First Coat: SW ProIndustrial Acrylic Semi-Gloss
 - c. Second Coat: SW ProIndustrial Acrylic Semi-Gloss

END OF SECTION 09 91 13