

PROJECT MANUAL

FOR

PAINTING PROJECT

AT

**Strawberry Point & Tam Valley Elementary Schools
Mill Valley, CA 94941
Project No. 2019/20-SP-TV-02**

Mill Valley School District

**425 Sycamore Ave
Mill Valley, CA 94941
415-389-7701
02/24/2020**

PAINTING
PROJECT MANUAL
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SUMMARY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Access to site.
 - 4. Coordination with occupants.
 - 5. Specification and drawing conventions.
- B. Related Section:
 - 1. Division 01.

1.02 PROJECT INFORMATION

- A. Project Identification: Painting Project
 - 1. Project Locations: Strawberry Point Elementary School, 117 E. Strawberry Lane, Mill Valley, CA 94941
 - 2. Project Locations: Tam Valley Elementary School, 350 Bell Lane, Mill Valley, CA 94941
- B. Owner: Mill Valley School District, 425. Sycamore Ave., Mill Valley, CA 94941.
 - 1. Owner's Representative: John Binchi, Project Manager, jbinchi@mvschools.org 415-389-7701.

1.03 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of the Project is defined by the Contract Documents and consists of the following:
 - 1. This Project for the Mill Valley School District is known as the "Painting Project. Project No. 2019/20-SP-TV-02" The project consists of painting the exterior of the main buildings at the Strawberry Point Elementary School, wooden shade structure at the entrance, exterior doors and door jams inside and out, all walkways covers and supports, gutters, downspouts, handrails, roof mounted HVAC units, exterior venting system and all ball walls. Paint the exterior of the modular/portable buildings for the Tam Valley Elementary School, exterior doors and door jams inside and out, walkway covers, supports, gutters and downspouts. Where needed at both schools, remove and replace

damaged portable building siding, wood fascia and building and window trim. Contractor to field verify all areas.

- B. Type of Contract.
 - 1. Project will be constructed under a single prime contract.
- C. General: Contractor shall have limited use of Project site for construction operations.
- D. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Driveways, Walkways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- E. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weather tight condition throughout construction period. Repair damage caused by construction operations.

1.04 COORDINATION WITH OCCUPANTS

- A. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify the Owner not less than forty-eight (48) hours in advance of activities that will affect Owner's operations.
- B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.
 - 1. Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.
 - 2. Before limited Owner occupancy, data and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain data and electrical systems serving occupied portions of Work.

3. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.05 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on the Drawings are described in detail in the Specifications. One or more of the following are used on the Drawings to identify materials and products:
 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.
 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 1000

SECTION 01 7300

EXECUTION

PART 1 - GENERAL

3.03 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. Installation of the Work.
 - 4. Cutting and patching.
 - 5. Coordination of Owner-installed products.
 - 6. Progress cleaning.
 - 7. Starting and adjusting.
 - 8. Protection of installed construction.
 - 9. Correction of the Work.

- B. Related Sections:
 - 1. Division 07 Section "Penetration Firestopping" for patching penetrations in fire-rated construction.

3.04 INFORMATIONAL SUBMITTALS

3.05 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Structural Elements: When cutting and patching structural elements, notify Owner of locations and details of cutting and await directions from the Owner before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
 - 2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Owner's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

3.06 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. General: Comply with requirements specified in other Sections.
 1. For projects requiring compliance with sustainable design and construction practices and procedures, utilize products for patching that comply with requirements of Division 01 Section "Sustainable Design Requirements."
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Owner for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.02 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Owner according to requirements in Division 01 Section "Project Management and Coordination."

3.03 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect and Construction Manager promptly.

3.04 FIELD ENGINEERING

3.05 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 1. Make vertical work plumb and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.06 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Temporary Support: Provide temporary support of work to be cut.

- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- F Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
- E. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 - 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.
- F. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.07 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.08 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

- B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.09 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
- E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 01 7300

SECTION 061000

ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide rough carpentry:
 - 1. Framing with dimension lumber.
 - 2. Framing with engineered wood products.
 - 3. Wood grounds, nailers, and blocking.
 - 4. Plywood wainscot.
 - 5. Wood stairs.
 - 6. Wood furring.
 - 7. Backing panels.
 - 8. Sheathing.
 - 9. Subflooring.
 - 10. Underlayment.
 - 11. Air infiltration barrier.
 - 12. Rough opening framing for doors, windows, and roof openings.
 - 13. Preservative treated wood materials.
 - 14. Communications and electrical room mounting boards.
 - 15. Communications and electrical room mounting boards.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Lumber Standards and Grade Stamps: U.S. Product Standard PS 20, American Softwood Lumber Standard and inspection agency grade stamps.
- C. Construction Panel Standards: PS 1, U.S. Product Standard for Construction and Industrial Plywood; APA PRP-108. (Form B455-Performance Standards and Qualification Policy for Structural-Use Panels; 2001).

- D. Wood Framing Standards: NFPA House Framing Manual.
 - 1. Exterior Wall Framing: 2 inch by 6 inch nominal studs, 24 inches on center.
 - 2. Interior Wall Framing: 2 inch by 4 inch studs, 16 inches on center.
- E. Preservative Treatment: AWPA C2 for lumber and AWPA C9 for plywood; waterborne pressure treatment. Provide for wood in contact with soil, concrete, masonry, roofing, flashing, dampproofing and waterproofing.
- F. Fire-Retardant Treatment: AWPA C20 for lumber and AWPA C27 for plywood; noncorrosive type. Provide at building interior where required by code.
- G. ASTM D 2898 - Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing; 2007.
- H. AWPA U1 - Use Category System: User Specification for Treated Wood; American Wood-Protection Association; 2007.
- I. No product materials containing asbestos will be accepted.

1.4 SUSTAINABLE DESIGN REQUIREMENTS

- A. USGBC LEED Certification: Comply with Section 011050 - LEED Requirements, Section 013350 - LEED Submittals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Dimension Lumber:
 - 1. Light Framing: Stud, No. 3 or Standard grade.
 - 2. Structural Framing: Select structural grade.
 - 3. Structural Framing: No. 1 grade.
 - 4. Structural Framing: No. 2 grade.
 - 5. Structural Framing: No. 3 grade.
 - 6. Species: Any species of grade indicated.
 - 7. Exposed Framing: Appearance grade.
- B. Boards:
 - 1. Exposed Boards: 15 percent moisture content max. (S-dry or MC19)
 - 2. Exposed Boards: 19 percent moisture content max. (S-dry or MC19)
 - 3. Concealed Boards: 19 percent moisture content max. (S-dry or MC19)
- C. Miscellaneous Lumber:
 - 1. Moisture Content: 19 percent max. (S-dry or MC19)
 - 2. Grade: Standard grade light framing.
- D. Engineered Wood Products:

1. Laminated Veneer Lumber: Laminated wood veneers with exterior type adhesive; design stresses for use intended.
 2. Prefabricated Wood I Joists: Stress-graded lumber bonded to APA performance rated panel with exterior type adhesive; design stresses for use intended.
 3. Composite Joists and Headers: Laminated lumber veneers; design stresses for use intended.
- E. Construction Panels:
1. Combination Subfloor-Underlayment: APA PRP-108 Sturd-I-Floor, Exterior.
 2. Combination Subfloor-Underlayment: APA PRP-108 Sturd-I-Floor, Exposure 1.
 3. Subflooring: APA Sheathing, APA PRP-108/APA PRP-108, Form B455 Exterior.
 4. Subflooring: APA Sheathing, APA PRP-108/APA PRP-108, Exposure 1.
 5. Wall Sheathing: APA Sheathing, APA PRP-108/APA PRP-108, Form B455 Exterior.
 6. Wall Sheathing: APA Sheathing, Plywood, PS 1, Grade C-D Exposure 1.
 7. Roof Sheathing: Sheathing, APA PRP-108/APA PRPR-108, Form B455 Exterior.
 8. Roof Sheathing: Sheathing, APA PRP-108/APA PRPR-108, Form B455 Exposure 1.
 9. Plywood Wainscot: 3/4-inch APA C-D Plugged Exposure 1 with exterior glue; use at drywall construction at traffic areas.
 10. Plywood Backing Panels: APA C-D Plugged Exposure 1 with exterior glue, fire-retardant treated.
 11. Plywood Underlayment for Resilient Flooring: APA Underlayment Exterior.
 12. Construction Panel Underlayment for Resilient Flooring: APA Sturd-I-Floor, Exterior.
 13. Construction Panel Underlayment for Ceramic Tile: APA PRP-108/APA PRPR-108, Form B455 Sturd-I-Floor, Exposure 1.
 14. Plywood Underlayment for Carpet: APA PRP-108/APA PRPR-108, Form B455 Underlayment Exposure 1.
- F. Particleboard:
1. Underlayment: ANSI A 208.1, grade 1-M-1, grade marked.
 2. Subflooring: ANSI A 208.1, grade 2-M-W (waferboard) or Grade 2-M-3.
 3. Wall Sheathing: ANSI A 208.1, grade 2-M-1.
 4. Roof Sheathing: ANSI A 208.1, grade 2-M-W (waferboard).
- G. Gypsum Sheathing:
1. Material: Gypsum sheathing board with water-resistant core.
 2. Material: ASTM C 1177/C 1177M Glass-fiber-surfaced gypsum sheathing board.
 3. Type: Regular ASTM C 79.
 4. Type: Type X fire-resistant ASTM C 79.

H. Auxiliary Materials:

1. Air Infiltration Barrier: Asphalt-saturated organic felt, ASTM D 226, Type I, No. 15 felt, unperforated.
2. Air Infiltration Barrier: High density polyethylene.
3. Air Infiltration Barrier: Woven polyolefin sheet.
4. Sill Sealer Gaskets: Glass fiber strip resilient insulation.
5. Framing Anchors and Fasteners: Non-corrosive, suitable for load and exposure. Drywall screws are not acceptable.
6. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E 84, painted with fire retarding paint- all sides.

C. Preservative Treatment

1. Preservative Pressure Treatment of Lumber Above Grade: AWWA Use Category UC3B, Commodity Specification A (Treatment C2) using waterborne preservative to 0.25 lb/cu ft (4.0 kg/cu m) retention.
 - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
 - b. Treat lumber exposed to weather.
 - c. Treat lumber in contact with roofing, flashing, or waterproofing.
 - d. Treat lumber in contact with masonry or concrete.
2. Preservative Pressure Treatment of Plywood Above Grade: AWWA Use Category UC2 and UC3B, Commodity Specification F (Treatment C9) using waterborne preservative to 0.25 lb/cu ft (4.0 kg/cu m) retention.
 - a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.
 - b. Treat plywood in contact with roofing, flashing, or waterproofing.
 - c. Treat plywood in contact with masonry or concrete.
 - d. Treat plywood less than 18 inches (450 mm) above grade.
3. Preservative Pressure Treatment of Lumber in Contact with Soil: AWWA Use Category UC4A, Commodity Specification A (Treatment C2) using waterborne preservative to 0.4 lb/cu ft (6.4 kg/cu m) retention.
 - a. Preservative for Field Application to Cut Surfaces: As recommended by manufacturer of factory treatment chemicals for brush-application in the field.
 - b. Restrictions: Do not use lumber or plywood treated with chromated copper arsenate (CCA) in exposed exterior applications subject to leaching.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Wood framing: Comply with recommendations of NFPA Manual for House Framing, NFPA Recommended Nailing Schedule, and NFPA National Design Specifications for Wood Construction.
- B. Plywood: Comply with recommendations of APA Design and Construction Guide - Residential and Commercial.

- C. Provide nailers, blocking and grounds where required. Set work plumb, level and accurately cut.
- D. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with other work.
- E. Comply with manufacturer's requirements for cutting, handling, fastening and working treated materials.
- F. Restore damaged components. Protect work from damage.

End of Section

SECTION 099100

PAINING

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide the following:
 - 1. Painting and surface preparation for interior unfinished surfaces as scheduled.
 - 2. Painting and surface preparation for exterior unfinished surfaces as scheduled.
 - 3. Repainting and surface preparation at areas of remodeling.
 - 4. Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials.
 - 5. Mechanical and electrical piping, unless otherwise indicated.

- B. Items not requiring painting:
 - 1. Factory finished items, unless otherwise indicated.
 - 2. Structural steel, steel joists and metal deck, unless otherwise indicated.
 - 3. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 4. Floors, unless specifically so indicated.
 - 5. Glass.
 - 6. Concealed pipes, ducts, and conduits.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish.
- C. Include manufacturer's full range of color and finish options if additional selection is required
- D. See Section 013000 - Administrative Requirements, for submittal procedures.
- E. Manufacturer's Instructions: Indicate special surface preparation procedures.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers.

- B. Deliver, handle, and store materials in accordance with manufacturer's instructions
- C. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- D. Regulations: Compliance with VOC and environmental regulations.
- E. Mock-Ups: Provide 4 foot by 4 foot mock-up on each type of substrate, for each color selected, as required to demonstrate color and quality of workmanship.
- F. Extra Stock: Provide labeled maintenance stock of new material, 4 gallons of each color and type installed.

1.4 SUSTAINABLE DESIGN REQUIREMENTS

- A. USGBC LEED Certification: Comply with Section 011050 - LEED Requirements, Section 013350 - LEED Submittals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Substitutions: Materials will be considered for substitutions subject to requirements specified by the project manager. Submit chemical formulations of material proposed for substitution is similar to formulation of specified product; or results of test showing performance of substitution is equivalent to performance of specified product.
- B. Acceptable Products: Unless otherwise specified in the Paint Schedule, acceptable products include the following or equal:
 1. Galvanized Metal Primer:
Benjamin-Moore; M04 Acrylic Metal Primer
Dunn Edwards Corp; Galv-Alum 43-7
ICI Paint; 4020 Devflex
Kelley-Moore Paint Co; 1722 Kel-Guard Galvanized Iron Primer
Sherwin-Williams Co; DTM Primer/Finish B66W1
 2. Ferrous Metal:
Benjamin-Moore; M04 Acrylic Metal Primer
Dunn Edwards Corp; Block Rust 43-7
ICI Paint; 4020 Devflex
Kelley-Moore Paint Co; 1710 Kel-Guard Galvanized Iron Primer
Sherwin-Williams Co; Controls Rust Alkyd Metal Primer B49WJ900
 3. Wood Primer:
Benjamin-Moore; 166 Superspec Busan 100% Acrylic Exterior Primer
Dunn Edwards Corp; W708 E-Z Primer
ICI Paint; 3210 Gripper
Kelley-Moore Paint Co; 220 Exterior Primer
Sherwin-Williams Co; A-100 Latex Wood Primer B43W41

4. Enamel House Paint – Gloss:
 - Benjamin-Moore; Impervex 309 Latex High Gloss Metal & Wood Enamel
 - Dunn Edwards Corp; Ultrashield IP630
 - ICI Paint; D834
 - Kelley-Moore Paint Co; 1225 Alkyd Gloss House paint
 - Sherwin-Williams Co; A-100 Acrylic Gloss AB Series

5. Wood Trim Enamel – Semi Gloss:
 - Benjamin-Moore; 170 Mooncraft Superspec Latex House and Trim
 - Dunn Edwards Corp; Permasheen W901E
 - ICI Paint; 4020 Decra Shield Flat Finish
 - Kelley-Moore Paint Co; 1250 Acry-Lustre Acrylic Semi-Gloss
 - Sherwin-Williams Co; A-100 Exterior Latex Gloss A8 Series

- C. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.
- D. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
- E. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
- F. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
- G. Volatile Organic Compound (VOC) Content:
 1. Provide coatings that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Inspect surfaces, report unsatisfactory conditions in writing; beginning work means acceptance of substrate.
- B. Comply with manufacturer's instructions and recommendations for preparation, priming and coating work. Coordinate with work of other sections. Test sample area for adhesion for each type of paint.
- C. Remove cover plates and protect hardware and adjacent surfaces. Sand before painting until smooth and flat and sand between coats. Apply paint to achieve manufacturer's recommended dry film thicknesses.
- D. At existing areas to be repainted, remove blistered or peeling paint to sound substrates. Remove chalk deposits and mildew and wash all surfaces with mild detergent. Perform related minor preparation including caulk and glazing compounds. Spot prime bare areas before priming and painting as specified.

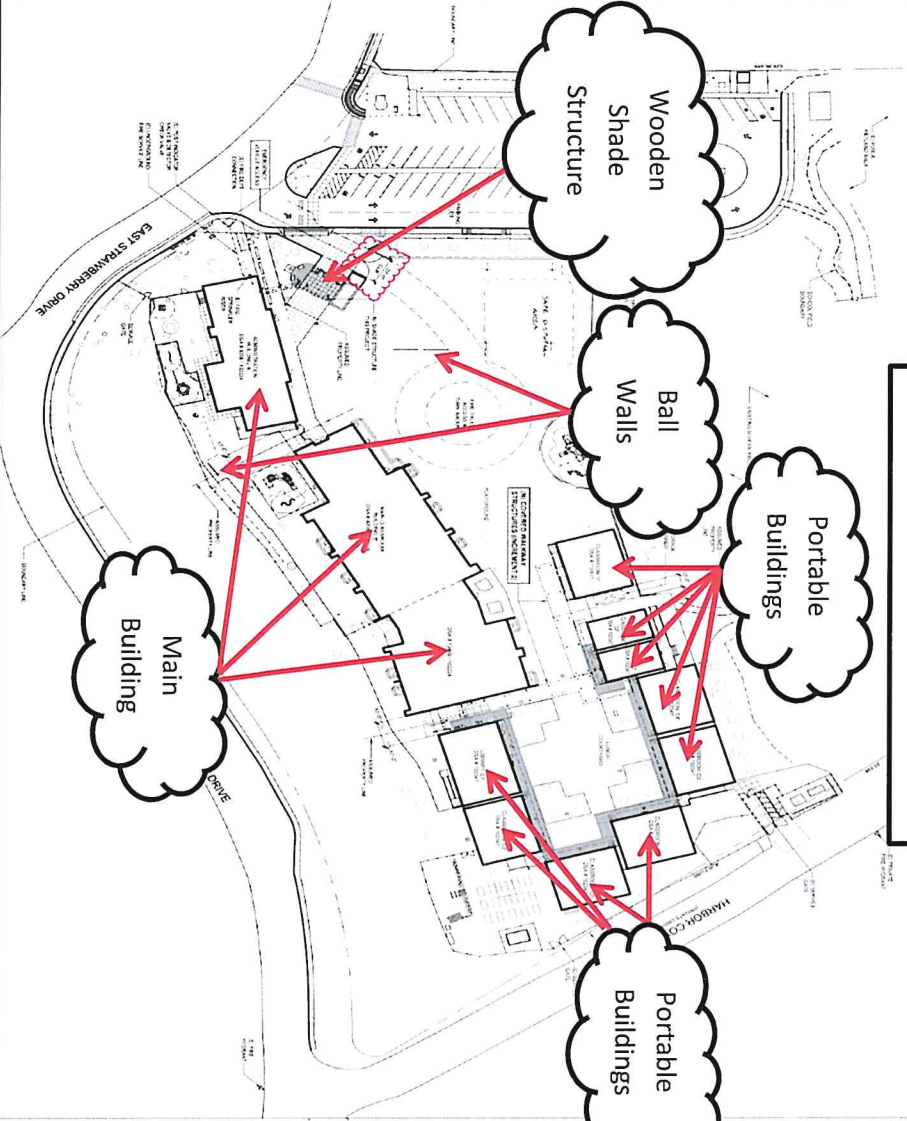
- E. Match approved mock-ups for color, texture, and pattern. Re-coat or remove and replace work which does not match, shows bleed-through, or shows loss of adhesion.
- F. Clean paint spatter from adjacent surfaces and glass. Clean up, touch up and protect work.
- G. Use drop cloths to protect floor, counters, and equipment from paint spatter.

3.2 EXTERIOR PAINT SCHEDULE

- A. Steel Doors and Frames – High Performance Semi-Gloss:
 - 1. 1 coat Organic Zinc Primer
 - 2. 2 coats Polyurethane Enamel - Gloss
- B. Iron & Steel - Gloss:
 - 1. 2 coat Ferrous Metal Primer
 - 2. 1 coat intermediate Metal Undercoating - Exterior
 - 3. 1 coats Enamel House Paint - Gloss
- C. Ferrous Metal, High Gloss: Omit primer at shop-primed units.
 - 1. 1 coat, rust-inhibiting primer
 - 2. 2 coats alkyd enamel finish
- D. Galvanized Metal, High Gloss: Omit primer at shop-primed units.
 - 1. 1 coat, galvanized metal primer
 - 2. 2 coats alkyd enamel finish
- E. Wood-Painted Semi-Gloss.
 - 1. 1 coat Wood Trim Enamel – Semi-Gloss
- F. Plaster – Painted Semi-Gloss
 - 1. 1 coat Acrylic Finish Coat – Flat-Exterior

End Of Section

Strawberry Point Elementary School Site Plan



LEGEND

| | |
|------|----------------|
| 1.00 | ASPHALT DRIVE |
| 1.01 | CONCRETE DRIVE |
| 1.02 | GRAVEL DRIVE |
| 1.03 | GRAVEL DRIVE |
| 1.04 | GRAVEL DRIVE |
| 1.05 | GRAVEL DRIVE |
| 1.06 | GRAVEL DRIVE |
| 1.07 | GRAVEL DRIVE |
| 1.08 | GRAVEL DRIVE |
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| 1.49 | GRAVEL DRIVE |
| 1.50 | GRAVEL DRIVE |

DSI FIRE AUTHORITY REVIEW

DATE: 11/11/2020

REVIEWER: [Signature]

PROJECT: Strawberry Point Elementary School Site Plan

PROJECT NO: [Number]

PROJECT ADDRESS: [Address]

PROJECT CITY: [City]

PROJECT STATE: [State]

PROJECT ZIP: [ZIP]

PROJECT CONTACT: [Name]

PROJECT PHONE: [Phone]

PROJECT FAX: [Fax]

PROJECT EMAIL: [Email]

PROJECT WEBSITE: [Website]

PROJECT DESCRIPTION: [Description]

PROJECT STATUS: [Status]

PROJECT PHASE: [Phase]

PROJECT BUDGET: [Budget]

PROJECT SCHEDULE: [Schedule]

PROJECT RISK: [Risk]

PROJECT COMPLIANCE: [Compliance]

PROJECT APPROVAL: [Approval]

PROJECT SIGNATURE: [Signature]

PROJECT DATE: [Date]

KEY PLAN

DSI APPROVAL

DATE: 11/11/2020

REVIEWER: [Signature]

PROJECT: Strawberry Point Elementary School Site Plan

PROJECT NO: [Number]

PROJECT ADDRESS: [Address]

PROJECT CITY: [City]

PROJECT STATE: [State]

PROJECT ZIP: [ZIP]

PROJECT CONTACT: [Name]

PROJECT PHONE: [Phone]

PROJECT FAX: [Fax]

PROJECT EMAIL: [Email]

PROJECT WEBSITE: [Website]

PROJECT DESCRIPTION: [Description]

PROJECT STATUS: [Status]

PROJECT PHASE: [Phase]

PROJECT BUDGET: [Budget]

PROJECT SCHEDULE: [Schedule]

PROJECT RISK: [Risk]

PROJECT COMPLIANCE: [Compliance]

PROJECT APPROVAL: [Approval]

PROJECT SIGNATURE: [Signature]

PROJECT DATE: [Date]

HEBER HARMACHE

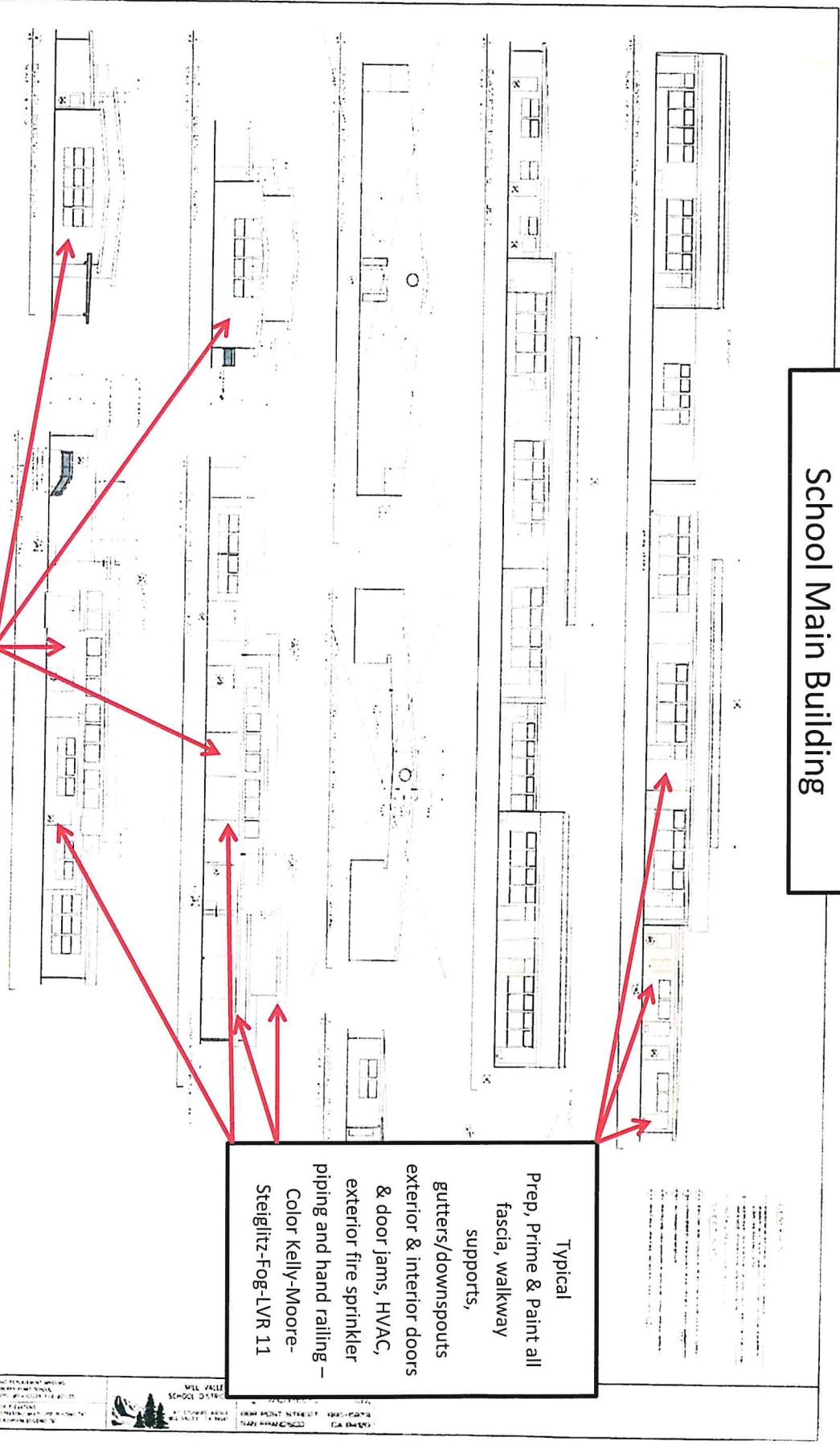
2000 Strawberry Point Elementary School Site Plan

11/11/2020

12:38 PM

2/17/2020

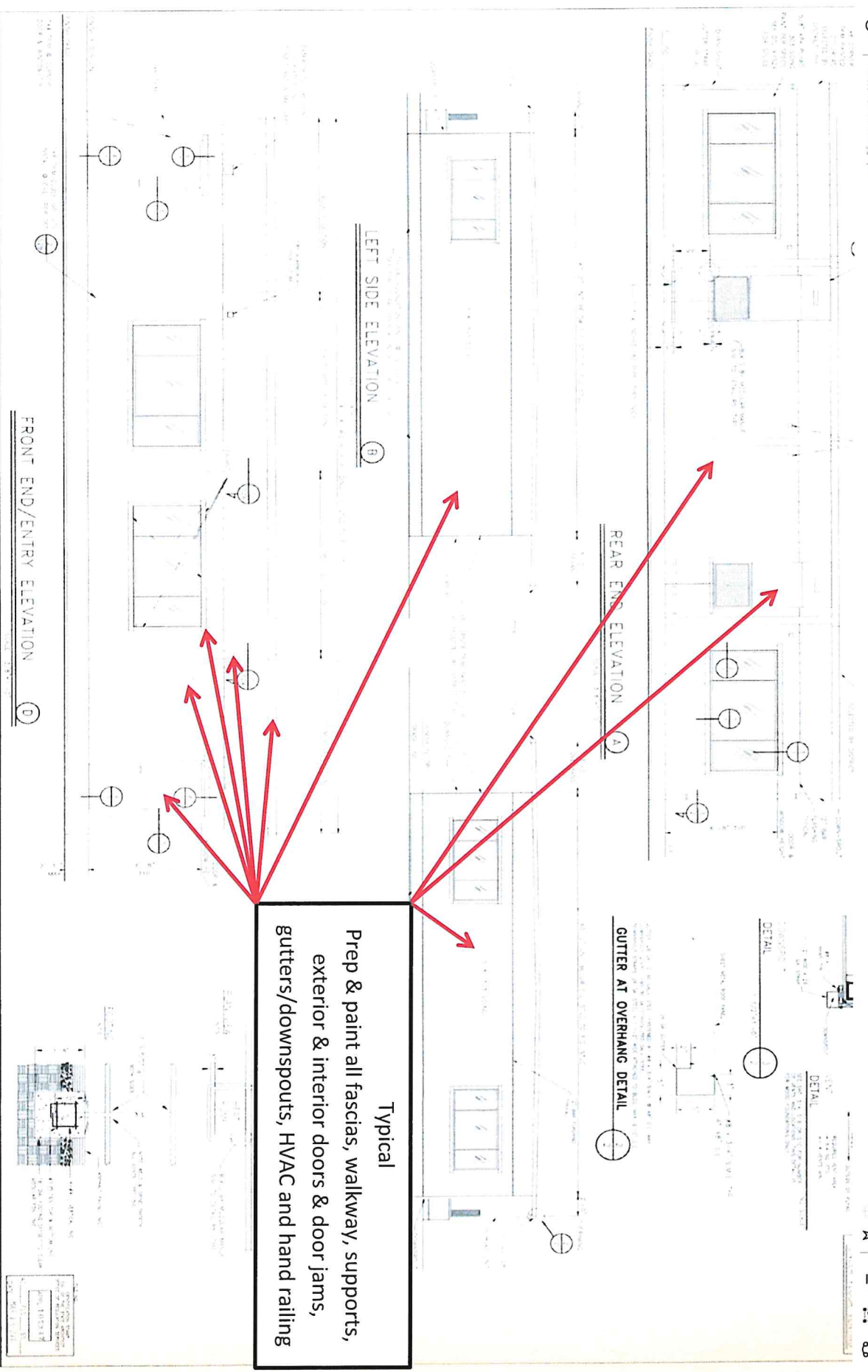
Strawberry Point Elementary School Main Building



Typical
Prep, Prime & Paint all
fascia, walkway
supports,
gutters/downspouts
exterior & interior doors
& door jams, HVAC,
exterior fire sprinkler
piping and hand railing –
Color Kelly-Moore-
Steiglitz-Fog-LVR 11

Prep & Paint Main Building Color Dunn-Edwards-
Reclaimed Wood-DT625-LRV47

Strawberry Typical Portable Building



Typical
Prep & paint all fascias, walkway, supports, exterior & interior doors & door jams, gutters/downspouts, HVAC and hand railing

48140 FC
ELECTRICAL
CASSIDIAN

American Modular Systems

CUSTOMER
STRAWBERRY TYPICAL PORTABLE BUILDING

EXTERIOR ELEVATIONS

| NO. | DESCRIPTION | DATE | BY | CHKD. |
|-----|-------------------------|----------|-----|-------|
| 1 | ISSUED FOR PERMIT | 11/11/19 | ... | ... |
| 2 | ISSUED FOR CONSTRUCTION | 11/11/19 | ... | ... |
| 3 | ISSUED FOR OCCUPANCY | 11/11/19 | ... | ... |

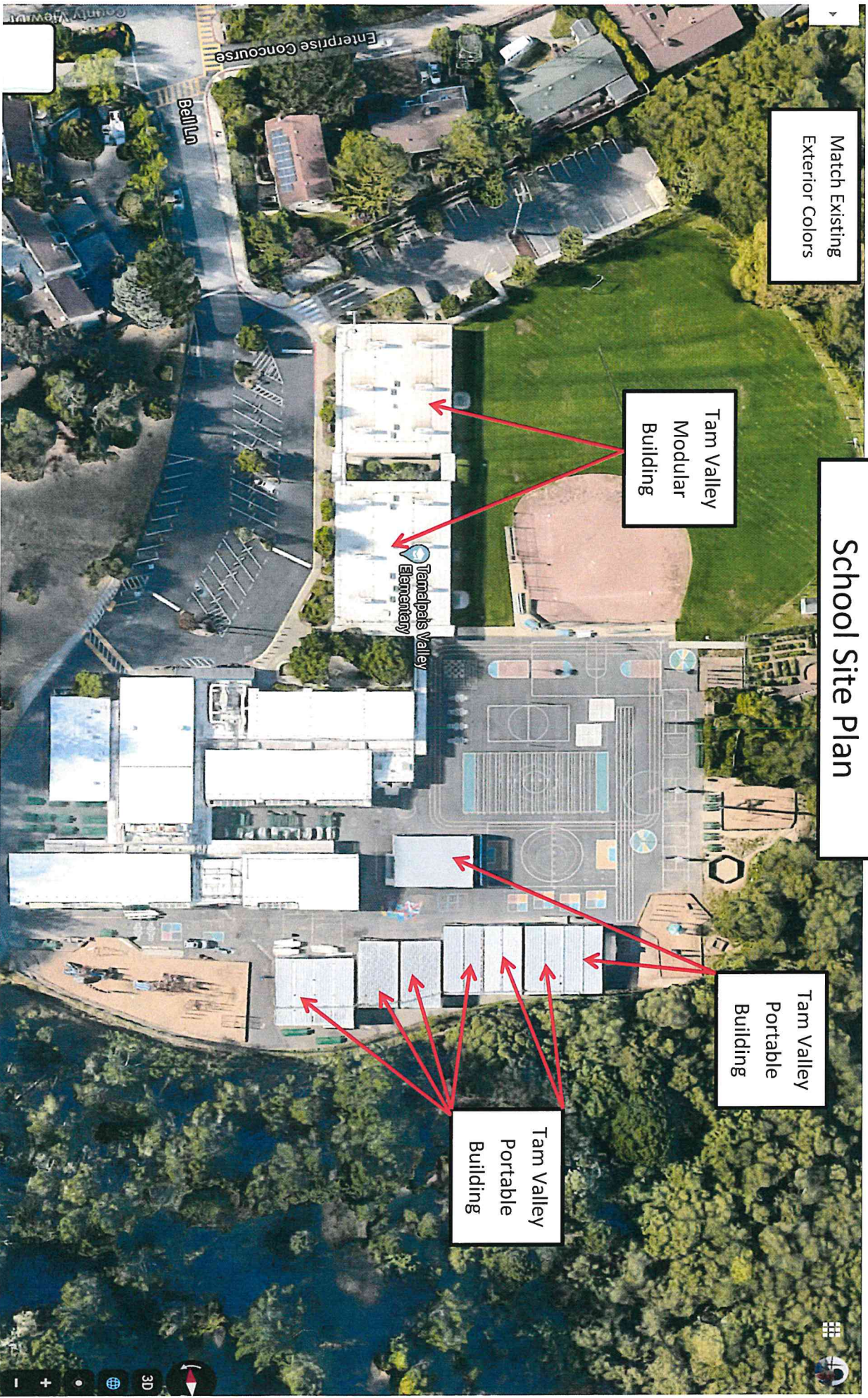
Tam Valley Elementary School Site Plan

Match Existing
Exterior Colors

Tam Valley
Modular
Building

Tam Valley
Portable
Building

Tam Valley
Portable
Building



County Highway 100

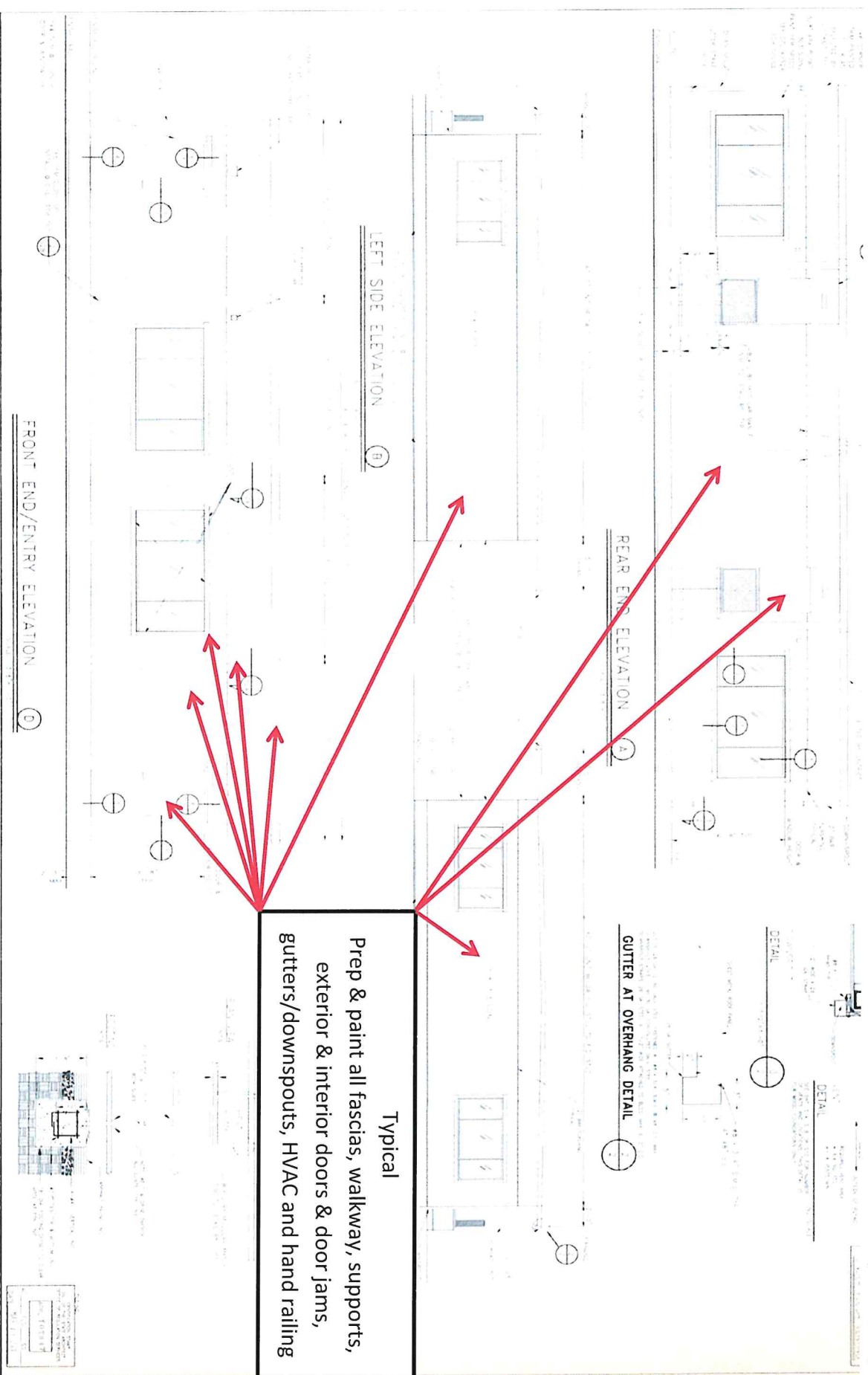
Bell Ln

Enterprise Concourse

Tam Valley
Elementary



Tam Valley Typical Portable Building



Typical
Prep & paint all fascias, walkway, supports,
exterior & interior doors & door jams,
gutters/downspouts, HVAC and hand railing