



300 8<sup>th</sup> Avenue  
Suite 202 San Mateo  
California 94401  
[www.bartosarchitecture.com](http://www.bartosarchitecture.com)

# ADDENDUM 02

<b>TO</b>	All Plan Holders	<b>ISSUE DATE</b>	22 November 2022
		<b>PROJECT #</b>	17-006.12
<b>REGARDING</b>	<b>Reroof &amp; Mechanical, Exterior Painting, Window Replacement at Mission Hill Middle School</b>	<b>NARRATIVE PAGES</b>	2
		<b>SPECIFICATION PAGES</b>	24
<b>DISTRICT</b>	Santa Cruz City Schools District	<b>DRAWING SHEETS</b>	4
		<b>TOTAL PAGES</b>	30

The information contained herein is issued as an Addendum to the Bid Documents for the Project listed above. All information included herein shall become a part of the Bid Documents for that Project.

All bidders are required to acknowledge this Addendum on their Proposal Documents.

Failure to acknowledge receipt of this Addendum shall deem the Proposal unresponsive and the proposal shall be disqualified.

ITEM	REFERENCE	DESCRIPTION OF CHANGE
		<i>All revised sheets and specification sections will be issued in conform set pending DSA approval of addendum</i>

## Addresses: replace addresses listed in drawings or project manual with the following

- 01**      **Santa Cruz City Schools Facility Department**  
536 Palm Street  
Santa Cruz, California 95060  
**Bartos Architecture, Inc.**  
300 8th Avenue, Suite 202  
San Mateo, California 94401

## Convenience Contacts

- 01**      *All specified components are "or equivalents" : the following contacts are provided for bidders convenience: These are design intent manufacturers*
- PHP Systems/Design: Alex Ramirez at [alex@phpsd.com](mailto:alex@phpsd.com)
  - Winco: Bob Sharman at [bob@wincowest.com](mailto:bob@wincowest.com)
  - Mecho Shade: Kelly Lloyd at [Kelly.Lloyd@mechoshade.com](mailto:Kelly.Lloyd@mechoshade.com)

## Project Manual Revisions

- 02**    **00 30 00**      **Proposal Form**
- An updated Proposal Form is included with this addendum. This form replaces previously published proposal
- 03**    **00 11 00.12**      **Proposal Submission**
- Proposal submission is electronic / online. Refer to published bid advertisement.

## Roofing and Mechanical Scope at Gymnasium

- 04**    **M2.0**      **Mechanical Demolition**
- **Clarification:** Revise sheet note 9 to read as follows: "remove boiler [flu] through roof..." (boiler was previously removed)
  - **Clarification:** Contractor shall remove all existing equipment and curbs as necessary to install new equipment and curbs. Patch any remaining openings with necessary blocking, plywood and roofing to match existing adjacent roofing"
- A5.0**      • **Clarification:** Notes referring to roofing indicated on Exterior elevations of gymnasium do not apply. The only roofing at Gymnasium building is that roofing related to installation of new mechanical equipment.

ITEM	REFERENCE	DESCRIPTION OF CHANGE
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## Roofing Scope at Area of New Egress

- |            |   |
|------------|---|
| 04    A2.1 | <ul style="list-style-type: none"> <li>• <b>Clarification</b> of electrical scope Contractor to provide all code compliant electrical wiring to panels for newly placed Egress lighting.</li> </ul> |
|------------|---|

## Auditorium Interior Finishes

- |                           |  |
|---------------------------|--|
| Update to<br>Mecho Shades | <ul style="list-style-type: none"> <li>• <b>Update</b> to Mecho-shade Specification: Mecho Shade Clarification: Include the 10 motor power panel 120 voltage to power panel located in auditorium – convert to low voltage. Low voltage controls and low voltage power to mecho shade roller mechanisms.               <ul style="list-style-type: none"> <li>○ ElectroShade by Mecho</li> <li>○ IQ3-DC w/MechoNet</li> <li>○ 10 motor power panel</li> <li>○ Wired wall switches</li> <li>○ Select swatches from Mecho’s Quick Ship Swatches</li> </ul> </li> </ul> |
|---------------------------|--|

## Windows

- |                                  |  |
|----------------------------------|--|
| General                          | <ul style="list-style-type: none"> <li>• <b>Clarification:</b> Window controls at Auditorium are Clearline – mechanically controlled. Bid this as indicated. After bids are award district may consider electrically controlled openers – but acceptance is not guaranteed.</li> <li>• <b>Clarification.</b> Provide Cam locks for operable windows below 6’ and poles for windows over 6’ where shown to be operable. Except at Auditorium Windows (3B) which are to have Clearline operators</li> <li>• <b>Clarification:</b> At all windows with existing wood sills, include aluminum panning over the wood sill, jambs and heads.</li> <li>• <b>Clarification:</b> Include louvers to be 2” deep and glazed into the windows. Include insect screens. Match window frame finish</li> <li>• <b>Revision:</b> Windows 9C (1) and 3E (2) are at kitchen pass through. See detail issued with Addendum 1. Revise these windows to be sliders. (not push up)</li> <li>• <b>Clarification:</b> Toilet room windows are: 1B (1 location) and 2C (2 locations) at Ground Floor. Provide laminated glass these locations.</li> </ul> |
| AD2-Damper<br>HVAC at<br>Windows | <ul style="list-style-type: none"> <li>• <b>Clarification:</b> At all locations where louvers are indicated (see exterior elevations), remove existing air dampers (relief and OA-intake) as needed to install new windows with integral louvers. Retain and re-attach existing dampers as necessary for positive connection, and sealed air-tight joints. Re-attach existing dampers and ensure ductwork remains connected as currently exists. Remove and replace existing ceiling tiles as necessary in order to remove existing windows and re-install new windows. Patch existing ceiling and repair/re-attach any damaged ceiling grid components. See attached Addendum Sketch AD2-Damper</li> </ul>  |
| AD1.0                            | <ul style="list-style-type: none"> <li>• All new windows to be Dark Bronze (correct typo on addendum 01: not “brown”)</li> </ul>   |

## Painting Scope

- |                    |  |
|--------------------|--|
| 09 90 11           | <ul style="list-style-type: none"> <li>• The Painting specification is re-issued in its entirety as attached.</li> </ul>   |
| AD2-Paint<br>1,2,3 | <ul style="list-style-type: none"> <li>• <b>Clarification:</b> Refer to attached Exterior Elevations <b>AD2- Paint 1, AD2-Paint 2, AD2-Paint 3.</b> indicating clarification of painting scope. Completely paint existing Main Building and Gymnasium Buildings in their entirety. This includes all necessary repair and body color, doors, and trims.</li> <li>• The entire exterior of Main Building and Gymnasium are to be prepped, repaired, and re-painted.</li> <li>• Paint all existing unpainted exterior handrails</li> <li>• Paint existing wood fencing at courtyard (see attached drawings)</li> </ul> |

## Acknowledgement

PLEASE ENSURE THAT THIS ADDENDUM IS ACKNOWLEDGED ON YOUR BID

## END OF ADDENDUM ITEMS

ISSUED BY

Mojgan Aghamir  
ma@bartosarchitecture.com

# Bid Form

Reissued with Addendum **02**

For

**Envelope Improvements**  
Mission Hill Middle School

## Bid Opening Location

Santa Cruz City Schools District  
536 Palm Street  
Santa Cruz, California, 95060

## Bid Opening Date & Time

As described in published bid advertisement or as modified by addendum

*Refer also to "Notice to Contractors" for Proposal due dates, Pre-Proposal Conference dates and other pertinent schedule information. Information contained in those documents has not been repeated herein.*

### Dear Board Members:

The undersigned doing business under the firm name of: \_\_\_\_\_  
hereby propose and agree to enter into a Contract, with **Santa Cruz City Schools** ("Owner"), to furnish any and all labor, materials, applicable taxes, equipment and services for the completion of Work as described hereinafter and in the Contract Documents:

In accordance with the Plans and Specifications prepared by:

### **Bartos Architecture**

300 8<sup>th</sup> Avenue  
San Mateo, CA 94401

Architect's Project Number: **17-006.9 and 12**

To:

The Board of Trustees

### **Santa Cruz City Schools**

Therefore, the undersigned hereby proposes to furnish all labor and materials for completion of said work in strict accordance with said Plans, and Specifications for the following sum:

### Bidder:

.....  
Company Name

.....  
Address

.....  
Telephone

**Base Bid:**

The Winning Bidder will be selected based on the **Lowest Base Bid**

For all Labor and Materials required to complete the Work of this Project as shown on the Drawings, Specifications and Addenda. **NOTE: PROPOSER SHALL NOT STRIKE OUT OR MODIFY THIS FORM IN ANY WAY INTENDED TO QUALIFY THE BID REQUIREMENTS**

Form: **LUMP SUM PROPOSAL**

Amount:

	(\$	)
Text	Dollars	

After Award of Contract, the District will determine whether to proceed with the work defined by Alternate Prices. The Construction Contract will be executed based on Base Price plus the sum of District chosen Alternate Prices.

**Additive Alternate Price 01: Additional Window Replacement**

Refer to Drawings, Specifications and Addenda.

Amount:

	(\$	)
Text	Dollars	

**Additive Alternate Price 02: Gymnasium Mechanical and Related roofing/flashings**

Refer to Drawings, Specifications and Addenda.

Amount:

	(\$	)
Text	Dollars	

**Additive Alternate Price 03: Remove miscellaneous cabinetry at science classrooms**

Refer to Drawings, Specifications and Addenda.

Amount:

	(\$	)
Text	Dollars	

**Additive Alternate Price 04: Interiors at Auditorium, Including Shades and related power/controls**

Refer to Drawings, Specifications and Addenda.

Amount:

	(\$	)
Text	Dollars	



The following unit prices will **not** be utilized as a basis for selection of the lowest responsive bid. These unit prices may be utilized by District – at District’s **option** to determine appropriate pricing for change orders.

**Unit Prices**

<u>TBD</u>	<u>Unit Price: Text</u>	<u>(\$ )</u> Dollars per Square Foot
<u>TBD</u>	<u>Unit Price: Text</u>	<u>(\$ )</u> Dollars per Square Foot
<u>TBD</u>	<u>Unit Price: Text</u>	<u>(\$ )</u> Dollars per Linear Foot
<u> </u>	<u> </u>	<u>(\$ )</u>

If written notice of the Award of Contract is mailed, faxed, or delivered to the undersigned at any time before this bid is withdrawn, the undersigned shall, within ten (10) days after the date of such mailing, faxing, or delivering of such notice, execute and deliver an agreement in the form of agreement present in these Contract Documents and give Performance and Payment Bonds in accordance with the specifications and bid as accepted.

The undersigned hereby designates as the office to which such Notice of Award of Contract may be mailed, faxed, or delivered:

|

Our Public Liability and Property Damage Insurance is placed with:

Our Workers' Compensation Insurance is placed with:

Circular letters, bulletins, addenda, etc., bound with the specifications or issued during the time of bidding are included in the bid, and, in Completing the Contract, they are to become a part thereof.

**Addenda**

The following individual acknowledges receipt of all Addenda. A list of published Addenda is available from the Architect. All Addenda shall be reviewed and acknowledges for Proposal to be considered responsive.

Addenda Received:

		Initials
Addendum	Date	
Addendum	Date	
Addendum	Date	
Addendum	Date	
Addendum	Date	
Addendum	Date	
Addendum	Date	

**Bidder (Signature)**



The undersigned agrees that the bid amount stated shall remain valid for a period as defined in Section 00110 from the bid opening date. All bid documents shall be retained until the contract has been awarded or until all bids have been rejected.

If awarded the Contract the undersigned hereby agrees to commence work within a maximum of ten (10) days after execution of the contract unless defined elsewhere in the Instructions to Bidders or the Contract Documents.

**Required Documents**

This Proposal is not valid unless accompanied by the documents defined in **Instructions to Bidders section 00 20 00 and required documents section 00 20 01.**

**Execution**

The undersigned has examined the location of the proposed work and is familiar with the local conditions at the place where the work is to be performed and has carefully examined the plans and specifications and acknowledges their sufficiency for purposes of completing this proposal.

Signed

Print

Company Name

Address

Contractor’s License Number

Class and Date of Expiration

Public Works Contractor DIR  
Registration Number

Phone Number for Verification  
of Authority

Dated

Bidder (Signature)

End of Section

# Painting – New and Existing Construction

## Part 1. General

### 1.01 Related Documents

- A. The Drawings and general provisions of the Contract, including General and Special Conditions and Division 1, General Requirements, apply to the work specified in this section.
- B. Parts 1,2,3,4,5,6, Title 24 of the California Code of Regulations (California Building Code) is to be considered an integral part of this section.
- C. All California Prevailing Wage Laws apply to the work of this section.

### 1.02 Work Included

- A. The following is a general description of the work included in this section. This description does not limit the scope of work shown in the drawings nor does it relieve the Contractor of any responsibility for coordination of **ALL** work of this Contract.

Item	Description
General	<ul style="list-style-type: none"> <li>Provision and installation of all painted coatings regardless of location on project</li> <li>All preparation, surface cleaning, sanding, filling, de-glossing and priming required and not specified in other sections</li> </ul>

- B. Related work may be described in other sections of this Project Manual. All sections of this project manual are related. Contractor shall coordinate the work of this section with all other sections.

### 1.03 Submittals

- A. Provide the following submittals per the requirements of Division 1.

Item	Description
Catalog Cuts Samples	<ul style="list-style-type: none"> <li>n/a</li> <li>Submit samples for Architect's review of color and texture only. Compliance with all other requirements is the exclusive responsibility of the Contractor. Provide a listing of the materials and application for each coat of each finish sample</li> <li>On 12" x 12" hardboard, provide two samples of each color and material, with texture to simulate actual conditions. Resubmit each sample as requested until required sheen, color, and texture is achieved</li> <li>Include samples of proposed <b>Tinted Primer Color</b>. Refer <b>PART 2 – Products</b> For Primer Color Requirements</li> <li>Samples shall be created utilizing the same process that will be used in the field. If painting is to be sprayed, then samples shall be sprayed. If painting is to be brushed, then samples shall be brushed. If painting is to be rolled, then samples shall be rolled</li> </ul>
Product Data	<ul style="list-style-type: none"> <li>Submit two copies of the manufacturer's MSDS and PDS sheets which will include paint-label analysis and application instructions for each material specified</li> </ul>
Paint Schedule	<ul style="list-style-type: none"> <li>Submit a paint schedule that includes manufacturer and paint system for each type of surface and substrate to be</li> </ul>

Shop Drawings  
Schedule

- painted. Do not begin work until this schedule is approved by the Architect in writing.
- n/a
- Include Schedule entry and conclusion on Gantt Chart for Installation of all coatings for this project.
- Provide a Schedule of the products to be used on each building component. Include Manufacturer, product, sheen, number of coats and proposed method for installation as well as the intended preparation to successfully install the coating systems.

#### 1.04 References / Standards

- A. The following References and Standards are incorporated into the requirements of this Section as they apply to products, assembly, manufacturing procedures and installation. References shall be utilized in determining "Industry Standards" and other acceptable manufacture and installation methods but shall not relieve the Contractor of any other responsibilities of the Contract. Where conflicts occur between multiple listed references, the Contractor shall assume that the more restrictive standard applies and shall seek determination from the Architect regarding applicable standard.

References

- In addition to compliance with all pertinent codes and regulations, meet or exceed "Standard Type 1", as defined by the Painting and Decorating Contractors of America in the "Modern Guide to Paint Specifications", latest edition
- Meet or exceed requirements of SSPC for all steel surfaces
- MPI – Master Painters Institute, Architectural Painting Specifications Manual <http://www.specifypaint.us>

Standard

- EPA Method 24 – Determination of Volatile Matter Content, water Content, Density, Volume Solids, and Weight Solids of surface coating.
- ASTM E2129, Standard Practice for Data Collection for Sustainability Assessment of Building Products
- ASTM D3960, Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
- ASTM D5116, Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products
- ASTM D6670, Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products.

#### 1.05 Quality Assurance

- A. Provide the following per Division 1

Item

Supervision

Description

- Full time supervision and observation by the Contractor of all on-site Construction Activities including ordering, procurement and delivery of all materials and products manufactured or assembled off-site.
- **Superintendent:** Contractor shall provide knowledgeable personnel – Superintendent or Foreman – familiar with the scope of the Project and capable of communicating the status of the Work on a daily basis to the Architect and at all Required Inspections.

Qualifications of Workers

- General Contractor shall ensure that all workers providing labor on this project are fully competent and experienced in the area of work being performed. All

Product Acceptance

Substrate Acceptance

workers will have at least two years of training from the supplying contractor. Documentation will be required.

- Use only qualified journeymen painters for the mixing and applications of paint on exposed surfaces; in the acceptance or rejection of installed painting, no allowance will be made for lack of skill.
- General Contractor shall require subcontractors to remove any unqualified workers from the project.
- General Contractor (Superintendent) shall verify and accept all products delivered to site prior to installation.
- Architect reserves the right to reject any material not installed per current industry standards or recommended installation instructions of the Manufacturer, or not installed per these Specifications.
- General Contractor (Superintendent) shall verify all substrates / conditions prior to allowing installation of any primer, finish system or patching/repair product.
- Inspection: Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence. Refer Part 3 – Execution for more detailed Contractor Inspection requirements.
- Moisture levels of all surfaces will be tested and documented by the painting contractor and the General Contractor. Additionally, all exposed masonry surfaces will be tested for PH and documented. All PH levels tested will be below: 10 PH before any repair, priming or painting will begin.
- All existing coatings will be tested and verified to be lead free before any work can begin.

**1.06 Quality Control by Contractor**

- A. The following specific procedures shall be required to demonstrate adequate levels of quality provided for project components and systems. Exclusion of any item from this list does not relieve the Contractor of any responsibilities for quality procedures covered elsewhere in the Contract Documents.

Item	Description
Supervision	<ul style="list-style-type: none"><li>• Per Division 1</li></ul>
Testing	<ul style="list-style-type: none"><li>• n/a</li></ul>
Special Inspections	<ul style="list-style-type: none"><li>• Per DSA Testing and Inspection Form</li></ul>
Mock Ups	<ul style="list-style-type: none"><li>• Provide mock-up for each color and sheen selection on each building component on the project. Use the same primer, paint, number of coats, and installation method that will be used for the final installation</li><li>• Coordinate exact location for mock up in field with the Architect</li><li>• Designated surface shall be the standard of quality for related surfaces upon review and acceptance by Architect</li></ul>

**1.07 Quality Control by Owner**

- A. The following specific procedures shall be required to demonstrate adequate levels of quality provided for project components and systems. Exclusion of any item from this list does not relieve the Contractor of any responsibilities for quality procedures covered elsewhere in the Contract.

Item	Description
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Observation Inspection	<ul style="list-style-type: none"> <li>• Per Division 1.</li> <li>• Per CCR Title 24: Continuous Inspection by DSA Certified inspector</li> <li>• Per CCR Title 24: Continuous Inspection by DSA Certified inspector</li> <li>•</li> </ul>
Review by Architect	<ul style="list-style-type: none"> <li>• Contractor shall notify Architect at the following milestones so that Architect may review the condition of the work. Failure to coordinate these reviews may result in later work being removed for corrections in the earlier work: <ul style="list-style-type: none"> <li>• After power washing, cleaning, de-glossing, and preparation of all surfaces to receive paint</li> <li>• After completed application of prime coat</li> <li>• After application of final coat</li> <li>• After final post application site clean-up operations are completed</li> <li>• Prior to release of final payment</li> </ul> </li> </ul>

#### **1.08 Close Out**

- A. Provide the following Close Out materials in accordance with Division 1.

<b>Item</b>	<b>Description</b>
Product Manuals	<ul style="list-style-type: none"> <li>• Maintenance and Operations instructions / manuals provided by all product / material manufacturers.</li> </ul>
System Manuals	<ul style="list-style-type: none"> <li>• Maintenance and Operations instructions / manuals provided by subcontractors for assemblies / systems.</li> </ul>
Surplus Materials	<ul style="list-style-type: none"> <li>• Provide (5) gallons of each type and color of paint used on the project</li> </ul>
Training	<ul style="list-style-type: none"> <li>• n/a</li> </ul>

#### **1.09 Warranty**

- A. Provide written warranty in accordance with Division 1.

<b>Item</b>	<b>Description</b>
Warranty Form	<ul style="list-style-type: none"> <li>• Per Division 1</li> <li>• Sub Contractor and manufacturer to provide warranty against defects in materials or workmanship. Replacement or repair of such defects shall be repaired or replaced in a timely fashion at no additional cost to the Owner</li> </ul>
Warranty Period	<ul style="list-style-type: none"> <li>• 3 years</li> </ul>
Warranty Start	<ul style="list-style-type: none"> <li>• Date of Substantial Completion</li> </ul>

#### **1.10 Painting Scope**

- A. General
1. Painting and finishing of exposed items and surfaces throughout the Project, except as herein specified.
  2. Study Drawings and Schedules and Specifications of other trades and include priming and preparation where no other is specified. Be responsible for total mil thickness of coating systems as specified herein, including others' shop coats
  3. "Paint", as used herein, means all coating systems materials, including primers, emulsions, enamels, sealers and fillers, stains and other applied materials, whether used as prime, intermediate or finish coats.



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4. Paint all exposed *paintable* surfaces, whether or not colors are designated in "schedules", except where the natural finish of the material is obviously intended to be exposed and not painted. (Obviously, do not paint window glass, masonry, fire equipment, etc.)
  5. Paint all wood and steel fences and gates (Excludes steel chain link fences).
  6. Paint all steel chipping containers identified on plans, including stenciled signage.

B. Colors:

1. Colors per plan.
2. Unless otherwise noted, provide all materials from a single manufacturer.
3. The contractor shall allow for a range of colors and shall anticipate the possibility of a different color on each type of material included in the project. No limits shall be assumed regarding numbers of colors, including selection of deep tones, except that colors will not be changed within the bound of a given material.
4. Generally and unless otherwise specified herein or noted on Finish Schedules the quantity of colors and finishes shall be based on the following criteria:
  - (a) Color selection will be based on (1) base color and up to (4) accent colors, which may be deep or bright colors.

C. Existing Construction: Renovated Finish

1. Where existing clear finishes occur on wood surfaces and are scheduled for "Renovated Finishes", provide preparation, surface repair, stripping (where required) and new finishes
2. In some cases, existing finish may be adequate as base for new finish
3. All areas requiring renovated finish will be reviewed in the field with the Architect prior to execution. Areas deemed to be heavily damaged may be re-designated for painted finish at the discretion of the Architect

D. Floor Coatings

1. Refer to other sections of this Project Manual for floors to receive paint, sealer, or similar coatings.

- E. Specific Items Included: The following is intended to clarify items requiring paint. This list does not limit the scope of work shown in the drawings nor does it relieve the Contractor of any responsibility for coordination of all work of this Contract. The general contractor shall make all new surfaces, existing surfaces and repaired surfaces "ready for paint." Once the Painting contractor has applied primer or paint to a surface he/she has assumed complete responsibility for the "readiness" of that substrate.

Exterior Paint

- Building walls and overhangs
- Covered walkway ceilings
- Building and covered walkway fascia
- Doors and windows
- Gutters, downspouts, and rain water leaders
- Guardrails, fences, gates
- Architectural sheet metal, flashing, and trim
- Covered walkway support posts
- Site walls, where indicates
- Exposed conduit, pipes, and wires

- 
- Lockers, where indicated
  - Equipment, where indicated
  - Bollards, fire hydrants, and misc features where indicated
  - Vent louvers, sun shades

#### **1.11 Painting / Renovation Not Included**

- A. The following categories of work are not included as part of the painter-applied finish work, or are included in other Sections of these Specifications, unless otherwise shown or specified. No finish on the following

Do Not Paint:

- Stainless steel and nonferrous metals when used for metal doors and windows, counters, hardware, electrical plates, lighting fixtures, etc.
- Galvanized surfaces identified per plans to remain unpainted.
- Soffit vent screens that are currently unpainted
- Electrical, mechanical, and plumbing equipment and ductwork, **except noted electrical conduits**, ceiling registers, grilles, and diffusers which shall be field painted over manufacturer's prime coat
- Acoustical surfaces
- Fire alarm equipment: Smoke detectors, heat detectors, strobes, horns. Including protective cages or enclosures around such equipment.
- Factory-finished surfaces, equipment, etc
- Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceilings in concealed areas and inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, and shafts
- Existing concrete or masonry surfaces not specifically indicated as to receive paint, including concrete columns and masonry walls. These surfaces are to be renovated per Project Manual Section 09912.
- Operating Parts and Labels
- Where necessary to gain access or protect surfaces the painting contractor shall remove and replace at no extra cost removable items such as fittings, awnings, shutters, cover plates, doors and handles.
- Any surface where a coating will interfere with movement and fit such as threads and hinges
- Glass, porcelain, plastic, textiles and other materials not suitable to be painted
- Shop coated, powder coated and baked enamel surfaces
- School name, logo. Or mascot. These are to be cleaned and graffiti coated.

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- B. Do not paint any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, door closers, sensing devices, motor and fan shafts, unless otherwise indicated.
  - C. Do not paint over any code-required labels, such as UL and, fire ratings, Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.
  - D. All masking, tape, paper, and plastic adhered to these items shall be removed by the Painting Contractor upon completion of painting and after required drying time. Absolutely no tape residue will be left on any surface. No tape will remain on an exterior surface for more than (14) days.

## **Part 2. Products**

### **2.01 Paint**

- A. Paint, surface treatments, and finishes are shown in the Finish Schedules, Elevations, or indicated in the Specifications of the Contract Documents. Paint colors will be selected from the manufacturer's mixed colors prior to installation.
  - 1. All surfaces shall receive a paint finish, except the exclusions in 1.10 and 1.11. If no finish is particularly indicated, the finish shall be the minimum coating specified in the paint finish schedule of this Section, for the particular substrate involved. It is the responsibility of the Painting Contractor to verify the exact coating choice, color, and sheen, as it relates to each and every substrate before a coating or primer is applied to any surface.
- B. All paints shall comply with Flame Spread limitations defined in 2010 CBC Table 803.9. Refer to Drawings for specific requirements based on usage.
- C. Final acceptance of colors will be from brush-out samples applied *in situ*.
- D. Proprietary names used to designate colors or materials are not intended to imply that products of the manufacturer's are required to the exclusion of equivalent products of other manufacturer's.
- E. Bids are to be based on specified coatings as manufactured by Benjamin Moore & Co., except as otherwise specified.
- F. Requests for changes or variations must be made in writing by the Contractor to the Architect detailing the reasons, extra cost or savings per hour of labor and/or per gallon of paint. It is the burden of the Painting Contractor to prove the equivalency of any intended substitution of primers or coatings four weeks before beginning the project.
- G. Paint Coordination: Provide finish coats and primers that are compatible and manufactured by the same manufacturer, except as otherwise specified. Review other Sections of these Specifications in which prime paints are to be provided to ensure compatibility of total coating systems for various substrates. Upon request from other trades, furnish information on characteristics of specified finish materials, to ensure compatible prime coats are used. Provide barrier coats over incompatible primers or remove and re-prime as required. Notify the Architect, in writing, of any anticipated problems using specified coating systems with substrates primed by others.
- H. **Primer:** All primers and undercoats are to be tinted to the approximate shade of the selected finish coat, but the tint shall be sufficiently different to allow easy determination of the boundaries between coats. Where the color schedule calls for the use of deep tones, it is the responsibility of the Painting Contractor to utilize the appropriate Deep Base Primers

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as Manufactured by Benjamin Moore & Co. (or equal) for use on the surface for which they are intended.

**2.02 Surface Repair / Stabilization Materials**

- A. Hardener for wood that is damaged, slightly decayed, softened, or weathered:
  - 1. Quick drying, Solvent-borne resin hardener, such as Minwax High Performance Wood Hardener, System 3 End Rot, Abatron Liquid Wood, or approved equal.
- B. Filler for defects in wood.
  - 1. 2-part Epoxy filler such as Minwax High Performance Wood Filler, System 3 Wood Putty, Abatron Wood Filler, or approved equal.

Filler defects for metal.

  - 2. 2 component filler such as 3m Bondo or approved equal.
- C. Metal Etch / rust converter for rusty surfaces:
  - 1. Phosphoric Acid metal etch and prep such as Jasco Prep n' Prime, Ospho Rust Treatment, or approved equal.

**2.03 Material Quality**

- A. Provide premium quality grade of the various types of coatings as regularly manufactured by approved paint materials manufacturers. Materials not displaying the manufacturer's identification as a standard, premium-grade product will not be acceptable.
- B. Provide undercoat paint (Primer) produced by the same manufacturer as the finish coats. Use only thinners approved by the paint manufacturer, and use only within recommended limits.

**2.04 Materials**

- A. Unless otherwise specified, the products indicated under "Painting" are products of "Benjamin Moore & Co.;" comparable-quality products of Dunn-Edwards, ICI, Kelly-Moore, Pratt & Lambert or approved equivalent will be acceptable. Proof of equivalence is required in writing by the Painting Contractor.
- B. Colors used shall be selected for their permanence and non-fading qualities. In addition, colors that are used over concrete and plaster shall not be applied if the concrete or plaster surface has a Ph rating higher than 13.
- C. All paint and coatings must be delivered to the job site in the manufacturer's original and unopened containers, plainly marked with the proper designation of the product, as well as the name of the manufacturer. All coating materials at the job site shall be subject to inspection by the Architect.
- D. The contractor shall retain sufficient quantities of paint of the same batch until completion of the entire project to permit uniform touch-up. Normal minor damages to painted areas by other trades during the course of the construction project shall be touched-up by the Painting Contractor at no extra cost.
- E. It is to be understood by the General Contractor and the Painting Contractor that all coatings must conform to all state and local regulations including VOC rules at the time of application.

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## **Part 3. Execution**

### **3.01 Contractor's Inspection**

- A. It is the General Contractor and Painting Contractors responsibility to examine the areas and conditions under which painting work is to be applied. Notify the Architect, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected and inspected by the Architect.
- B. All surfaces to be painted must be free of dirt, rust, scale, grease, moisture, scuffed surfaces, glossy, or conditions otherwise detrimental to the formation of a durable paint film.
- C. Any surface which has been primed or painting constitutes acceptance of the surfaces and the conditions within any particular area.
- D. Surfaces not being painted shall be protected from drips, spatter, over-spray and other paint contamination by means of masking, drop sheets and protective covers.

### **3.02 Surface Preparation**

- A. General: Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instruction and as herein specified for each particular substrate condition.
  - 1. The Painting Contractor shall be wholly responsible for the quality of his work, and is not to commence any part of it until the surface is in proper condition.
  - 2. If the Painting Contractor considers a surface unsuitable for proper finishing, he shall notify the Architect in writing. The Painting Contractor is not to apply any material until corrective measures have been taken, or the Architect has instructed them to proceed.
  - 3. If the Painting Contractor has been instructed by the General Contractor to begin painting under conditions and circumstances he believes could result in poor performance and early failure of the coating, he shall immediately inform the Architect in writing and request from the Architect for a decision in writing.
- B. General, Existing Construction:
  - 1. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for the complete painting of the items and adjacent surfaces. Following completion of painting of each space or area, reinstall the removed items by workmen skilled in the trades involved.
  - 2. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease or waxes prior to mechanical cleaning. Schedule the cleaning and painting so that containments from the cleaning process will not fall onto wet, or newly painted surfaces.
  - 3. Refer to the manufacture's Technical Data Sheet for specified product and comply with the requirements regarding application such as: mixing of the components, thinning, pot life, and application equipment such as: roller type and nap length, brush type, tip size and gun type, air and fluid pressure, hose length and hose I.D., etc.
  - 4. Ensure that expectations of humidity, precipitation and temperature (substrate, ambient and material) during application and curing of paints are within the range permitted by the manufacturer.
  - 5. When substrate temperatures are high, care must be taken while applying the paint to prevent formation of voids, pinholes, and bubbles due to the rapid evaporation of solvent.

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C. Wood:

1. Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, solvent, and sandpaper, as required. Sand smooth all finished surfaces and remove dust. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac other approved sealer before application of the priming coat multiple thin coats of white shellac may be necessary to "seal" the knot from "bleeding". After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sandpaper smooth when dried. Spot prime over all exposed fillers. Preapproval from the Architect in writing is required before any **wood surfaces can be pressure washed All wood surfaces that are intended to be power washed will need to be identified and agreed upon in advance by the painting contractor, Architect and General Contractor.**
2. Repair of defects, decay, and stabilization of soft areas: On all wood not identified to be replaced, all imperfections, divots, soft and weathered wood, and minor damaged areas shall be repaired before painting. All end grain shall be treated with wood hardener prior to repair and painting. All "butt" joints will be caulked with a Urethane base caulking to ensure a flexible joint to allow for the lateral expansion and contraction of the joint. The repair areas shall blend seamlessly into the surrounding surface.
  - a. Scrape and remove all loose material from the damaged area.
  - b. Treat the area with wood hardener per manufacturer's instructions
  - c. Fill with epoxy filler. Multiple coats may be required
  - d. Sand smooth and blend into surrounding area. Inspect and apply additional filler if required.
  - e. Spot prime over patched and repaired surfaces.
3. Fill all cracks, joints, seams with caulk and allow to cure (see caulking manufacturer recommendations as it pertains to "cure: times).
4. Multiple coats of paint that are in an advanced state of deterioration and prior applications of cement-based paints must be removed by scraping, sanding or by the use of mechanical grinder. These areas will be referenced by the Architect and General Contractor during the "walk through".
5. New Wood must be dry, free of grease, oil mildew, mortar and asphalt spatters and mill glaze. Rough surfaces are to be sanded smooth. Cracks are to be caulked ; door and window trim and joints are to be caulked after surfaces have been primed so as to create a "sandwich" effect between the caulking/putty and the primed substrate. Nail holes are not to be filled. Painting is not to be done during or immediately following foggy, rainy or frosty weather, nor when the temperature is expected to go below 50°F before the coating has dried. Avoid painting surfaces while they are exposed directly to the hot sun, and refrain from painting during windy or threatening weather. Pressure treated wood (PTW) must be tested prior to coating to determine proper penetration of coating. Surface must be sprinkled with water to determine absorption into substrate. If water drops remain on PTW surface, do not paint. If water penetrates immediately into the surface, prepare surface as you would any wood and then prime. Smooth planed clapboards or siding must be sanded thoroughly with 80 grit sandpaper to remove the "mill glaze" to allow proper penetration and adhesion of the paint coating. If mildew is evident, it must be removed by scrubbing with a commercial mildew wash formulated for this purpose. Caution: Follow manufacturer's directions; wear rubber gloves, work goggles and protective clothing.
  - (a) All timber delivered to the job site shall be tested with a moisture meter. All wood testing at or below 18% moisture content shall be immediately primed.

- 
- (b) Prime edges, ends, face, undersides, and backsides of such wood surfaces. When transparent finish is required, use spar varnish for back priming.
  - (c) Timber surfaces to be embedded in plaster or masonry shall be fully primed prior to installation. All timber end grain is to receive one extra primer coat.
  - (d) Back prime all new exterior wood.
  - (e) If more than (14) days have expired since the time of original priming all surfaces to be top-coated shall be lightly sanded or re-primed before a finish coat can be applied.
- 6. Previously Painted Wood must have all blistered, peeling, scaling and deteriorating paint removed to a clean, sound substrate, by scraping, grinding, sanding and/or wire brushing. Spot prime where bare wood is exposed. Chalk must be thoroughly removed to a sound substrate by wire brushing, sanding or by power washing. Remove all loose or split caulking, putty or glazing
  - 7. Previously stained exterior wood:
    - (a) After ensuring that wood is dry, free of grease, oil mildew, mortar and asphalt spatters and mill glaze, sand with 80 grit sand paper to achieve an adequate profile for complete primer adhesion.
    - (b) Prime with a stain blocking acrylic primer.
- D. New Exterior Cement Plaster:
- 1. Surfaces are to be dry, free of greasy residue, mortar and asphalt spatters. Thoroughly brush with a stiff fiber brush to remove loose particles.
  - 2. Remove form release agents with appropriate solvents.
  - 3. Remove laitance deposits by hand or power wire brushing, or other appropriate means.
  - 4. Allow poured concrete and precast concrete to cure for 60-90 days; block and stucco surfaces 30-60 days. Fill all structural cracks and crevices with the appropriate caulking/patching compound. If efflorescence is present, first dampen the surface with water, and then scrub the surface with a 10% solution of muriatic acid. Caution: Wear rubber boots and gloves, work goggles, and protective clothing. After treatment, thoroughly flush the surface with clean water to remove all acid and allow to dry thoroughly before painting. If mildew is evident, it must be removed by scrubbing with a commercial mildew wash formulated for this purpose. Caution: Follow manufacturer's directions; use rubber gloves, work goggles and wear protective clothing.
- E. Previously painted Exterior Cement Plaster:
- 1. Remove all peeling, scaling and deteriorating paint and chalk to a sound substrate by hand scraping, use of mechanical grinders or high-pressure washing. Fill all structural cracks and crevices with the appropriate caulking/patching compound. If mildew is present, remove by scrubbing with a commercial mildewcide wash formulated for this purpose.
  - 2. Caution: Follow manufacturer's directions; wear rubber gloves, work goggles, and wear protective clothing.
- F. Ferrous Metals:
- 1. Thoroughly clean New steel surfaces to remove all grease in accordance with SSPC-SP1 "Solvent Cleaning"

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2. Remove rust, mill scale, etc., in accordance with SSPC-SP2-63 "Hand Tool Cleaning" or SSPC-SP3-63 "Power Tool Cleaning". Particular care is to be exercised to remove welding flux, slag and fume deposits as is possible by blast cleaning, washing with water, Phosphate rinsing, or power tool cleaning. Weld Spatters and burs must be removed. Primer coats should be applied immediately after the surface is dry and within the same day as the acid wash was applied so that rust does not reappear do to overnight moisture. Factory applied "shop coat" primers must be re-primed with a rust inhibitive 2 component epoxy primer before finish coats are applied.
- G. Previously painted steel:
1. Thoroughly clean following SSPC-SP1-63 to remove all grease, oil and dirt.
  2. All loose, peeling and scaling paint is to be removed by hand scraping or power tool cleaning. Rusted surfaces should be cleaned in accordance with SSPC-SP2\_63" Hand Tool Cleaning" or SSPC-SP3-63 "Power Tool Cleaning".
  3. Surfaces are to be thoroughly cleaned after sanding, scraping, hand and tool cleaning, etc. Dull all glossy surfaces by sanding.
  4. Removal of multiple coats of paint that are in an advanced state of deterioration shall be accomplished by sandblasting or by the use of a mechanical grinder.
- H. New galvanized metals:
1. Thoroughly clean to remove all grease, oil dirt and contaminants in accordance with SSPC-SP1 "Solvent Cleaning".
- I. Metal Downspouts and Structural Posts:
1. Remove all foreign material including but not limited to tape and previous painted coatings that are flaking or chipped.
  2. All existing paint shall be removed completely down to bare metal prior to installation of new primer and paint. All rust areas shall be sanded smooth and treated with metal etch / rust converter.
- J. Weathered previously painted galvanized metal:
1. Remove all peeling and scaling paint, rust and chalk by scraping, sanding and wire brushing.
  2. After scraping, sanding, and wire brushing thoroughly clean the surface, re-prime exposed metal with a 95% zinc primer by Rustoleum or other pre-approved manufacturer, and finish as specified.
- K. Painting of special assemblies
1. Existing louvers, vents, and screens:
    - a. Clean all sides of all fixed and operating louvers. Clean all aluminum frames of louvers, if existing.
    - b. Remove screens on the exterior of louvers, if equipped, and strip down to bare metal as specified by the Architect.**
    - c. Clean all excess paint from operable louvers if interfering with their operation. Clean all chains, gears, and all moving parts.
    - d. Paint louvers and screens separately and reassemble when dry.
  2. Doors and frames
    - a. Remove all paint if it will interfere with adhesion of the new coating system.



- 
- b. Fill all dents, holes, and other surface imperfections with epoxy filler.
  - c. Sand smooth all chipped areas and apply several coats of primer to build up the surface until smooth.
  - d. Finish coats of paint shall be sprayed or brushed. NOT ROLLED. Rolled-on paint or any paint applied otherwise with a rough or "stippled/orange peeled" final texture will be rejected.
  - e. Carefully paint doors which will touch adjoining surfaces when closed. To prevent blocking (fusing of uncured coating), the doors are not to be closed until the coating is cured enough as to not allow the door and jam to fuse together. Where excessive coating film thickness impacts the operation, previous paint and excess film thickness shall be removed by sanding, grinding or stripping and the item repainted.
3. Wood Windows
- a. Refer to section 08800 Glass and Glazing for glass replacement and glazing compound spot repair.
  - b. Carefully paint operable wood windows which will touch adjoining surfaces when closed. To prevent blocking (fusing of uncured coating), the windows are not to be closed until the coating is cured enough as to not allow the door and jam to fuse together. Where excessive coating film thickness prevents windows from closing, previous paint and excess film thickness shall be removed and the item repainted.
4. Lockers – as indicated on plans
- a. Thoroughly clean all lockers, remove all stickers and other foreign matter.
  - b. Repair minor dents and surface imperfections with a 2 component plastic filler.
  - c. Remove all staples, tacks, and other foreign items from the wood end caps at the ends of the banks. Fill all imperfections with epoxy and sand smooth.
  - d. Mask all hardware and tags on the door faces before painting.
  - e. Lockers shall be painted by airless, conventional or HVLP sprayer.

### **3.03 Materials Preparation**

- A. Mix and prepare painting materials in accordance with manufacturer's directions.
- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing, and application of paint in a clean condition, free of foreign materials and residue. Store materials not in actual use out of the direct sun at all times.
- C. Stir materials before application to produce a mixture of uniform density, and stir as required during the application of the materials. Do not stir surface film into the material. Remove the film, and if necessary, strain the material before using.

### **3.04 Application**

- A. General:
  - 1. See Operations and Sequence section below for the definition of a "Coat" of paint or finish.

- 
2. Apply paint in accordance with the Manufacturer's directions paying particular attention to recommended square feet per gallon. Use applicators and techniques best suited for the type of material being applied and that will provide a smooth professional, brush mark free finished surface.
  3. Apply additional coats when undercoats, stains, or other conditions show through the final coat of paint, until the paint film is of uniform finish, color, and appearance.
  4. Paint surfaces behind moveable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only. **Re-set all moveable equipment or furnishings in their original location upon completion and inspection by Architect.**
  5. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black paint.
  6. Paint the backside of access panels and removable or hinged covers to match the exposed surfaces in the coating specified for the substrate.
  7. Finish exterior doors on tops, bottoms, and side edges the same as the exterior faces, unless otherwise indicated.
  8. Sand lightly between each succeeding enamel or varnish coat and remove all sanding dust before work commences.
  9. No spraying to be done without prior written approval of the Architect or Owner.
- B. Minimum Coating Thickness
1. Provide a total dry-film thickness as recommended by manufacturer, but not less than 4.5 mils for the entire coating system of prime the finish coat for three-coat work.
  2. Prime Coats: Apply a prime coat to material which is required to be painted, and which has not been prime-coated by others.
  3. Re-coat primed and sealed walls and ceilings where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn through or other defects due to insufficient sealing.
  4. 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.
  5. Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections are not acceptable and shall be repaired and re-painted.
  6. Transparent (Clear) Finishes: Use multiple coats to produce a glass-smooth surface film of even luster. Always apply the first two coats in gloss and the final coat in the referenced final finish sheen. Provide a finish free of laps, cloudiness, color, irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections.
- (a) Provide finish for final coats, unless otherwise indicated.(Unnecessary)

### 3.05 Clear Finish Renovation

- A. Repairs
1. Do not begin finish renovation until all repairs have been made. Repairs may include patching, insertion of new panels or wood parts and spot wood repair.
- B. Preparation:
1. Do not accept substrates in which panels, trims or other materials are loose, bowed or otherwise not in full contact with substrate.
  2. Fill all nail holes and small cracks with permanent hardening putty to match final finish. **Do NOT fill originally existing joints between panels.**
  3. Sand after putty has hardened to remove all residues and produce a smooth finish.

- 
4. Light sand all wood surfaces prior to application of first coat. Sanding shall knock down all previous stubble and residue from previous finishes.
  5. Clean with tack cloth to remove sanding dust.
  6. Fully clean area and ensure that dust will not become airborne from movement of or air infiltration.

C. Application

1. Apply gloss clear finish with high quality brush or spray. Stroke parallel to grain and pull stroke full length to avoid brush ends and runs.
2. After first coat is dry, and per manufacturer specification, light sand completed finish to knock down all stubble, dust and residue.
3. Apply second coat of clear gloss fully covering all areas applied by the first coat. Allow to dry and inspect.
4. All areas that remain rough, or stubbled or include dust shall be sanded, cleaned and final coated again with the referenced final sheen.

**3.06 Operations and Sequence**

- A. All work is conditioned on adequate coating and finishing of all visible surfaces. Contractor shall provide all equipment necessary to meet this requirement. Equipment shall include lifts, scaffolding, ladders and any other appurtenances required to access surfaces.
- B. Sequence of operations shall be determined by the requirements of the paint manufacturer and the finish requirements of this specification. Finish quality shall not be compromised by limitations resulting from equipment movement or setup.
- C. Multiple setups may be required to apply different coatings or colors.
- D. Multiple passes at each surface will be required to allow for multiple coatings and interim curing time. Contractor shall allow for as many passes as necessary to adequately coat each surface.
- E. Contractor shall allow for multiple passes where the requirements of one finish component are different than those of another.
- F. **Drying Time between coats:** Time between coats of primer and finish coats shall be dictated by the Required Inspections (refer to PART 1.) Each coat shall be allowed to dry completely before application of next coat.
  1. **"Coat"** shall constitute a complete covering of any surface according to mfr. instructions for application of the particular coating specified and shall include manufacturer's specified drying time between coats. If mfr. specified curing time has not accrued prior to a subsequent coat, then the subsequent coat shall be considered a part of the previous coat and shall not constitute a required coat per these specifications. Multiple passes of any application device used for any coating shall not be considered multiple coats.

**3.07 Cleanup and Protection**

- A. Cleanup:
  1. During the progress of the work, remove from the Project daily all discarded paint materials, rubbish, cans, and rags.
    - (a) Comply with local regulations for disposal of all paint materials including paint, stain, wood preservative finishes, solvents, and other related materials.
    - (b) Recycle paint as available in jurisdiction. Separate materials by type. Where paint recycling is not available, materials shall be treated as hazardous waste and disposed in an appropriate manner.

- 
2. Upon completion of painting work, clean all window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damaged finished surfaces. Cut and face all operating windows. All operable windows need to be shown to work correctly to the Architect before the project will be considered complete.
- B. Protections: Protect the work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct any damages by cleaning, repairing, or replacing and repainting as directed by Architect.
    1. Provide "Wet Paint" signs as required to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.
- 3.08 Product Delivery, Handling and Storage**
- A. Delivery all materials to the job site in original, new, and unopened packages and containers bearing manufacturer's name and label.
- 3.09 Job Conditions**
- A. Do not apply water-base paints when the temperature of surfaces to be painted and the surrounding air temperatures are below 50 degrees F., unless otherwise permitted by the paint manufacturer's printed instructions.
  - B. Do not apply solvent-thinned paints when the temperature of surfaces to be painted and the surrounding air temperatures are below 45 degrees F., unless otherwise permitted by the paint manufacturer's printed instructions.
  - C. Do not apply paint in snow, rain, fog, or mist or when the relative humidity exceeds 85% or to damp or wet surfaces, unless permitted by the paint manufacturer's printed instructions. Painting may be continued during inclement weather only if the areas and surfaces to be painted are enclosed and heated within the temperature limits specified by the paint manufacturer during application and drying period.

## **Part 4. Coating Systems**

### **4.01 Materials**

- A. For purposes of scheduling, the products indicated under Painting Systems are products of Benjamin Moore & Co.
- B. Products used shall be selected for their permanence and non-fading qualities.
- C. Colors and Finishes: Paint colors, surfaces treatments, and finishes are shown on the Drawings and indicated in the Schedules of the Contract Documents.
- D. Use only vinyl acrylic or 100% acrylic paint; no oil (alkyd) based paints are allowed unless otherwise specified.

### **4.02 Paint Schedule**

- A. This schedule is comprehensive, there may be items listed here that are not within the scope of this project. Refer to Section 4.03 for items scheduled for Clear Finish.

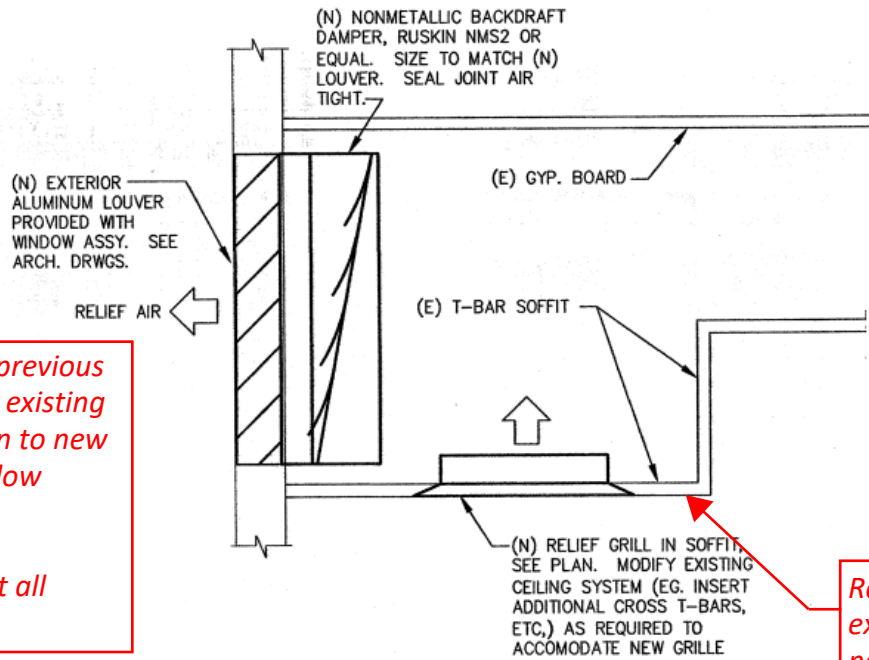
Location	Components	Product
New Exterior Cement Plaster or stucco	First Coat:	Benjamin Moore #068 Super Spec Masonry Primer OR Benjamin Moore #066 Acrylic Masonry sealer
	Second Coat	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
	Third Coat:	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
Existing Exterior Cement & Gypsum Plaster (Previously Painted)	First Coat	Benjamin Moore #068 Super Spec Masonry Primer OR Benjamin Moore #066 Acrylic Masonry sealer
	Second Coat	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
	Third Coat	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
New Exterior Gypsum Plaster	First Coat	Benjamin Moore #066-01 Acrylic Masonry sealer
	Second Coat	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
	Third coat	Benjamin Moore #541 Ben 100% Acrylic Flat Finish
Existing Exterior Wood Trim (including doors and windows)	First Coat	Benjamin Moore #046 Fresh Start 100% Acrylic Exterior Primer Benjamin Moore #024 Fresh Start Alkyd Exterior Primer (required for window sash)  Note: Refer section 08800 Glass and glazing for painting under new glazing compound on wood windows.
	Second Coat	Benjamin Moore #543 Ben Exterior Semi Gloss Finish
	Third Coat	Benjamin Moore #543 Ben Exterior Semi Gloss Finish
Existing Exterior Steel Fence, Railings, Gates, louvers	First Coat	<i>Over existing painted surfaces:</i> Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer <i>Over bare metal substrates:</i> Benjamin Moore /corotech V155 100% solid epoxy pre primer
	Second Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
Exposed Metal Ductwork and Registers	First Coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
	Third Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
New Hollow Metal Doors	First Coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
	Third Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
New Hollow Metal Frames	First Coat:	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
	Third Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
Existing Hollow Metal Doors (Previously Painted)	First Coat	Benjamin Moore #046 Fresh Start 100% Acrylic Exterior Primer
	Second Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
	Third Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi

Location	Components	Product Gloss Finish
Existing Hollow Metal Frames (previously painted)	First Coat:	Benjamin Moore #046 Fresh Start 100% Acrylic Exterior Primer
	Second Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
	Third Coat	Finish with Benjamin Moore #M29 100% Acrylic Direct to Metal Semi Gloss Finish
New Metal Flashing, gutters, and rain water leaders	First Coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
Existing Painted Metal Flashing, gutters, and rain water leaders	First Coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
New Exposed Metallic Ductwork and Registers	First Coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
Existing steel structural posts and downspouts	First Coat	<i>Over existing painted surfaces:</i> Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer <i>For bare metal substrates:</i> Benjamin Moore /corotech V155 100% solid epoxy pre primer
	Second Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third Coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
Existing steel lockers	First coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
	Third coat	Finish with Benjamin Moore/Corotech V510 Aliphatic Acrylic Urethane Semi-Gloss
Existing Fire Hydrants, bollards, light poles, and vehicular gates	First coat	Prime with Benjamin Moore/Corotech V110 Acrylic Metal Primer
	Second coat	Finish with Benjamin Moore/Corotech V500 Aliphatic Urethane Gloss Enamel
	Third coat	Finish with Benjamin Moore/Corotech V500 Aliphatic Urethane Gloss Enamel

**End of Section**

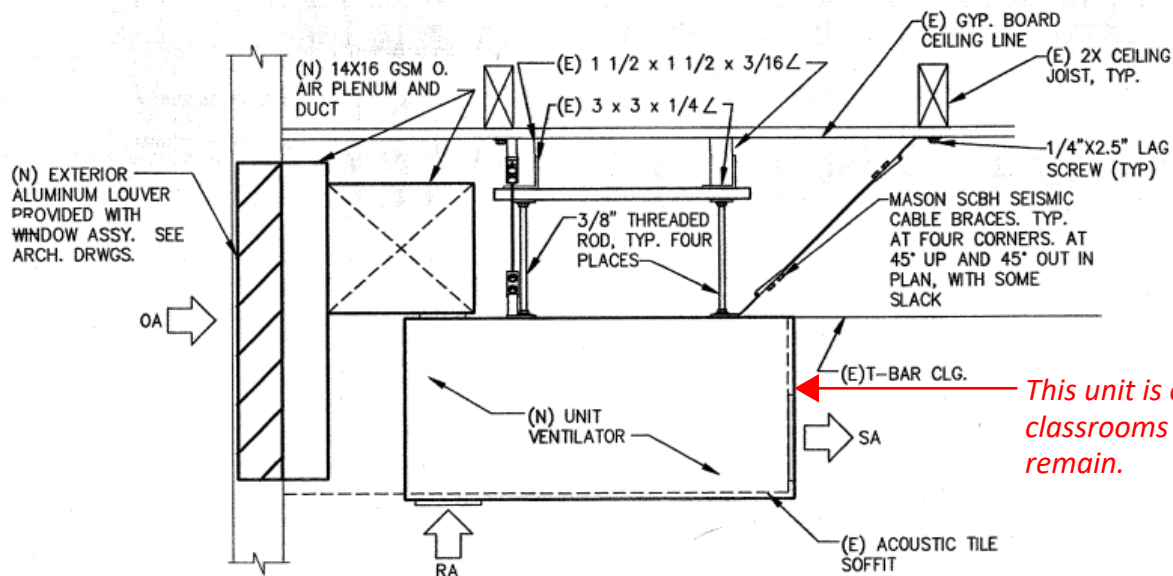
These drawings are from previous project - 2005 - indicating existing dampers and reconnection to new louvers integral with window assemblies.

Contractor shall reconnect all dampers and OA intakes



Remove and replace existing ceiling tiles as necessary to remove existing windows and install new windows.

**2 RELIEF DAMPER MOUNTING**  
MO.1 NO SCALE



This unit is existing in classrooms and is to remain.

**1 UNIT VENTILATOR MOUNTING**  
MO.1 NO SCALE



300 8<sup>th</sup> Avenue  
Suite 202 San Mateo  
California 94401

TITLE: Reference at Louvers  
PROJECT: Mission Hill Middle School- Envelope Improvements  
OWNER: Santa Cruz City School District

DATE 11/20/2022  
SCALE  
REFER SHT

DSA File:  
DSA Appl.:

**AD2-Dampers**



Color Key

- 1

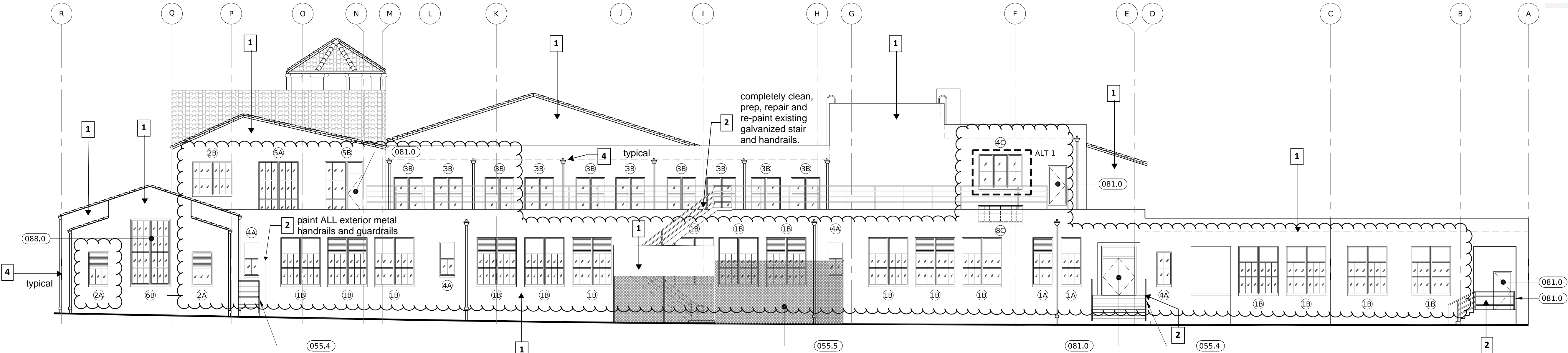
**Field Color**  
Color: Broken White  
MFR: Benjamin Moore
- 2

**Window Frame/ Railing**  
Color: Black  
MFR: Benjamin Moore
- 3

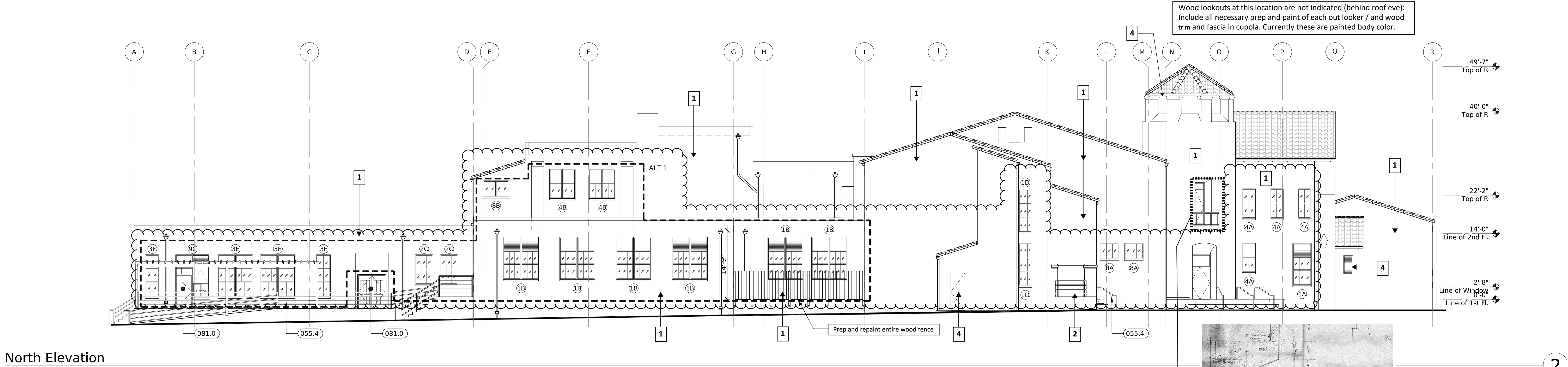
**Clay Tile Roof**  
Color: Red Clay  
MFR: Boral Roofing (One piece S shaped Barrell Tile)
- 4

**Downspouts/ Doors**  
Color: French Press (AF-170)  
MFR: Benjamin Moore
- 5

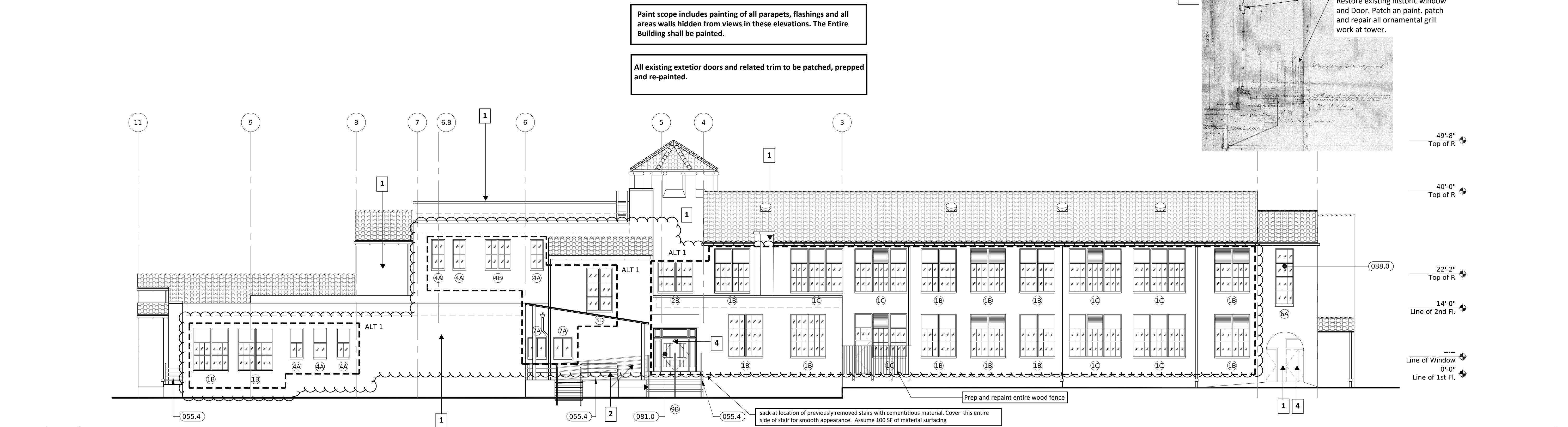
**Concrete Base**







North Elevation



East Elevation

## Color Key

1	<b>Field Color</b> <b>Color:</b> Broken White <b>MFR:</b> Benjamin Moore
2	<b>Window Frame/ Railing</b> <b>Color:</b> Black <b>MFR:</b> Benjamin Moore
3	<b>Clay Tile Roof</b> <b>Color:</b> Red Clay <b>MFR:</b> Boral Roofing (One piece S shaped Barrell Tile)
4	<b>Downspouts/ Doors</b> <b>Color:</b> French Press (AF-170) <b>MFR:</b> Benjamin Moore
5	<b>Concrete Base</b>

Refer sheet AD2-Paint-1 for notes not indicated here that apply to all sheets

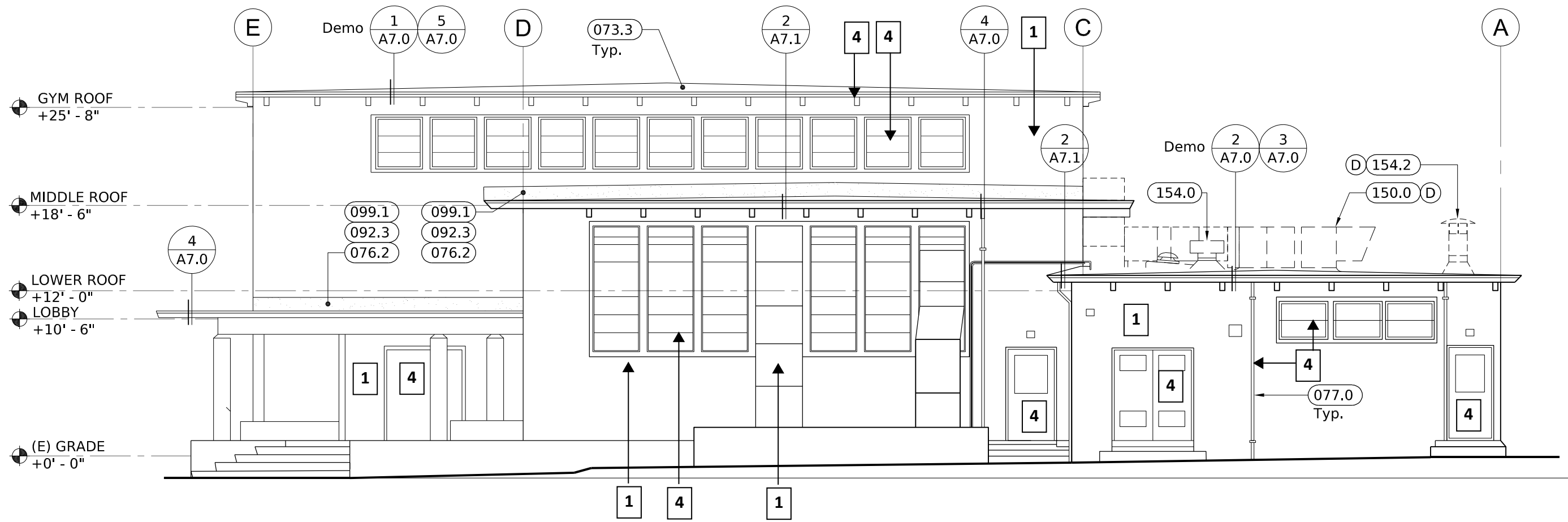
## Keynotes

123.1	Keynotes are arranged by CSI section. Refer Specifications for additional information.
05	<b>Metals</b> (E) Metal railings (E) Metal fence
08	<b>Openings (Doors/Windows)</b> (E) Door frame and hardware to remain. (E) Window to remain

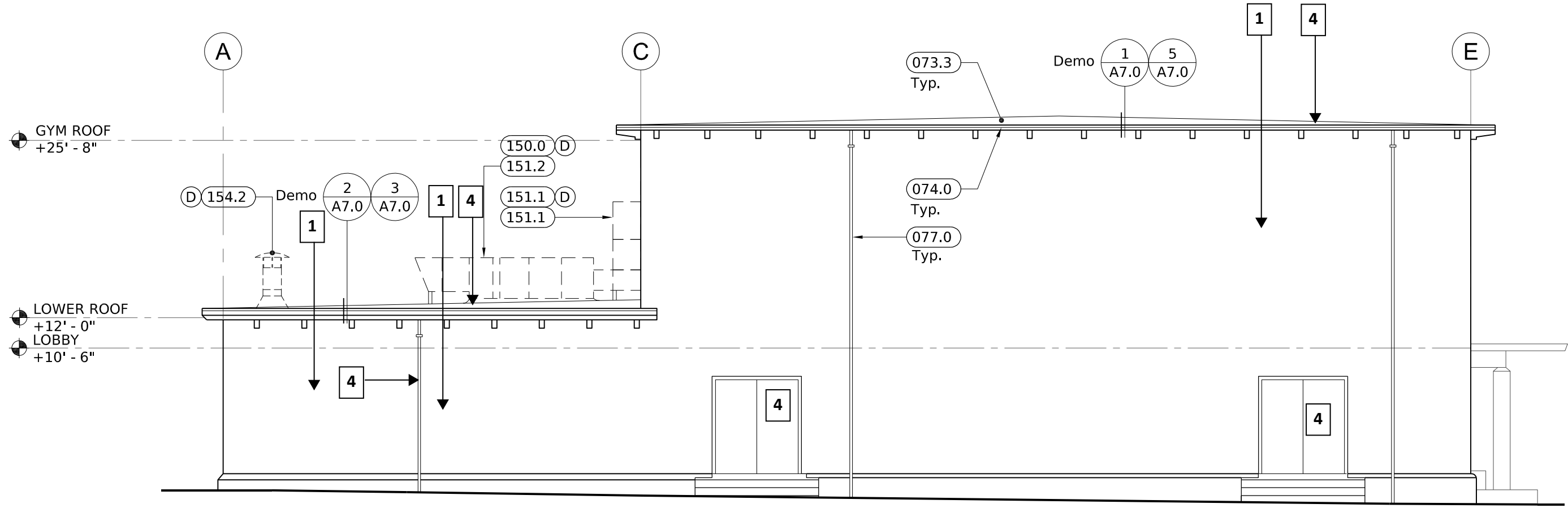
## AD2-Paint-2

This sheet issued as clarification to painting scope only. All other painting scope described on other sheets remains as part of project scope.

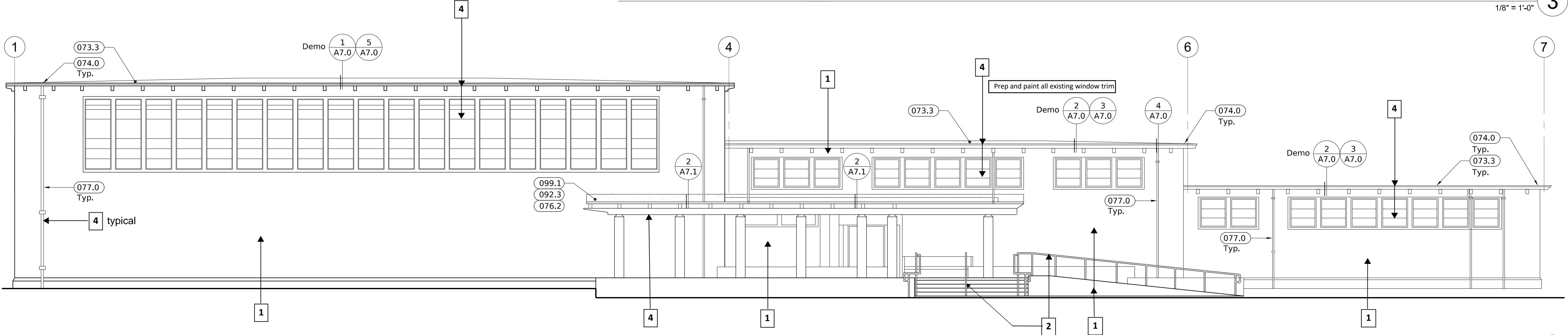




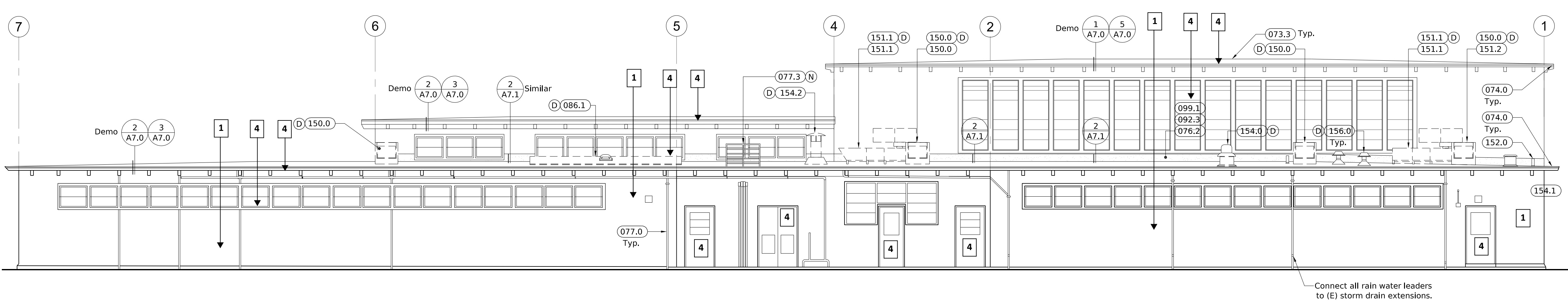
North Elevation



South Elevation



East Elevation



West Elevation

Refer sheet AD2-Paint-1 for notes not indicated here that apply to all sheets

### Color Key

1	<b>Field Color</b> <b>Color:</b> Broken White <b>MFR:</b> Benjamin Moore
2	<b>Window Frame/ Railing</b> <b>Color:</b> Black <b>MFR:</b> Benjamin Moore
3	<b>Clay Tile Roof</b> <b>Color:</b> Red Clay <b>MFR:</b> Boral Roofing (One piece S shaped Barrell Tile)
4	<b>Downspouts/ Doors</b> <b>Color:</b> French Press (AF-170) <b>MFR:</b> Benjamin Moore
5	<b>Concrete Base</b>

### AD2-Paint-3

This sheet issued as clarification to painting scope only. All other painting scope described on other sheets remains as part of project scope.