

## DIVISION 4

*Include the following paragraph if pre-blended bulk mortar is desired.*

### SECTION 04 21 00 – CLAY MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2

#### DELETE:

D. Mortar Type: As shown on the Drawings.

#### SUBSTITUTE:

D. Mortar Type:

1. Pre-blended bulk mortar:
  - a. Provide SPEC/MIX pre-blended lime, cement mortar, sand, and color mix manufactured by Quikrete Colorado, Inc.
  - b. Under controlled conditions in a factory, weigh the dry mortar mix materials including cementitious material, aggregate, and color if specified. Completely dry and pre-blend all ingredients of the mortar material off the jobsite.
  - c. Add only clean, potable water at the jobsite.
  - d. Do not add admixtures unless approved by the ENGINEER prior to construction.
  - e. Deliver to the jobsite in bulk sacks weighing 2,600 pounds or 3,000 pounds.
  - f. Store mortar mix in accordance with the Manufacturer's instructions to prevent contamination by extraneous chemicals.
  - g. Design criteria: In accordance with ASTM C 1142 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi].
  - h. Mixing:
    - 1) Thoroughly mix in quantities needed for immediate use.
    - 2) Mix mortar for a period of time not less than 5 minutes nor more than 10 minutes in a mechanical mixer with the amount of water required for the desired workability.
    - 3) Mortar may be retempered by adding water as required. Use mortar within [2 1/2] [ ] hours after initial mixing at ambient temperatures below [80] [ ]°F and within [1 1/2] [ ] hours after initial mixing at ambient temperatures over [80] [ ]°F.
    - 4) Provide uniformity of color in exposed mortar.

*Include the following paragraph if pre-blended, cement-lime mortar is desired.*

### SECTION 04 21 00 – CLAY MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2

#### DELETE:

D. Mortar Type: As shown on the Drawings.

#### SUBSTITUTE:

D. Mortar Type:

1. Pre-blended, cement lime mortar:
  - a. Provide portland/lime [S] [ ] pre-blended portland cement and lime, and color mix manufactured by US Mix Products Company.
  - b. Under controlled conditions in a factory, weigh the dry mortar mix materials including cementitious material and color. Completely dry and pre-blend all ingredients of the pre-blended material off the jobsite.
  - c. Add only clean, potable water and specified sand at the jobsite.
  - d. Do not add admixtures unless approved by the ENGINEER prior to construction.
  - e. Deliver to the jobsite in bulk sacks weighing 70 pounds.
  - f. Store mortar mix in accordance with the Manufacturer's instructions to prevent contamination by extraneous chemicals.

- g. Design criteria: In accordance with ASTM C 109 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi]. Pre-blended portland cement and lime product is to be a performance-based mix containing equal parts Type I portland cement and Type [S] [ ] lime, with the specified color pigment added as required to achieve the color specified by the ENGINEER.
- h. Mixing:
  - 1) Thoroughly mix in quantities needed for immediate use.
  - 2) Mix mortar for a period of time not less than 5 minutes nor more than 10 minutes in a mechanical mixer with the amount of water required for the desired workability.
  - 3) Mortar may be retempered by adding water as required. Use mortar within [2 1/2] [ ] hours after initial mixing at ambient temperatures below [80] [ ]°F and within [1 1/2] [ ] hours after initial mixing at ambient temperatures over [80] [ ]°F.
  - 4) Provide uniformity of color in exposed mortar.

*Include the following paragraph if site-mixed mortar is desired.*

#### **SECTION 04 21 00 – CLAY MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

D. Mortar Type: As shown on the Drawings.

**SUBSTITUTE:**

D. Mortar Type:

- 1. Site-mixed mortar:
  - a. Provide site-mixed mortar, portland cement, sand, and color mix when color is specified.
  - b. Design criteria: In accordance with ASTM C 270 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi].
  - c. Jobsite mixing of mortar:
    - 1) Mix using mechanical mixer. Hand mixing is not permitted.
    - 2) Mix appropriately three-quarters of required water, all of cement and lime, and one-half of aggregate for minimum of 2 minutes.
    - 3) Add remainder of water and aggregate; mix for a minimum of 3 minutes.

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#### **SECTION 04 22 00 – CONCRETE MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

A. CMU: *(in its entirety)*

**SUBSTITUTE:**

A. CMU:

- 1. In accordance with ASTM C 90, Type [II, non-moisture controlled].
- 2. Provide [ ] weight density, (density greater than or equal to 125 pcf).
- 3. Provide a minimum CMU 28 day compressive strength, F'm, as shown on the Drawings.
- 4. Provide standard units with face dimensions of [ ]-inches long by [ ]-inches high nominal. Provide block thickness as shown on the Drawings.
- 5. Provide special shapes shown on the Drawings.

*Include the following paragraph if pre-blended bulk mortar is desired.*

#### **SECTION 04 22 00 – CONCRETE MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2.C.**

**ADD:**

- 3. Pre-blended bulk mortar:
  - a. Provide SPEC/MIX pre-blended lime, cement mortar, sand, and color mix manufactured by Quickrete Colorado, Inc.

- b. Under controlled conditions in a factory, weigh the dry mortar mix materials including cementitious material, aggregate, and color if specified. Completely dry and pre-blend all ingredients of the mortar material off the jobsite.
- c. Add only clean, potable water at the jobsite.
- d. Do not add admixtures unless approved by the ENGINEER prior to construction.
- e. Deliver to the jobsite in bulk sacks weighing 2,600 pounds or 3,000 pounds.
- f. Store mortar mix in accordance with the Manufacturer's instructions to prevent contamination by extraneous chemicals.
- g. Design criteria: In accordance with ASTM C 1142 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi].
- h. Mixing:
  - 1) Thoroughly mix in quantities needed for immediate use.
  - 2) Mix mortar for a period of time not less than 5 minutes nor more than 10 minutes in a mechanical mixer with the amount of water required for the desired workability.
  - 3) Mortar may be retempered by adding water as required. Use mortar within [2 1/2] [ ] hours after initial mixing at ambient temperatures below [80] [ ]°F and within [1 1/2] [ ] hours after initial mixing at ambient temperatures over [80] [ ]°F.
  - 4) Provide uniformity of color in exposed mortar.

*Include the following paragraph if pre-blended, cement-lime mortar is desired.*

### **SECTION 04 22 00 – CONCRETE MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2.C.**

**ADD:**

- 3. Pre-blended, cement lime mortar:
  - a. Provide portland/lime [S] [ ] pre-blended portland cement and lime, and color mix manufactured by US Mix Products Company.
  - b. Under controlled conditions in a factory, weigh the dry mortar mix materials including cementitious material and color. Completely dry and pre-blend all ingredients of the pre-blended material off the jobsite.
  - c. Add only clean, potable water and specified sand at the jobsite.
  - d. Do not add admixtures unless approved by the ENGINEER prior to construction.
  - e. Deliver to the jobsite in bulk sacks weighing 70 pounds.
  - f. Store mortar mix in accordance with the Manufacturer's instructions to prevent contamination by extraneous chemicals.
  - g. Design criteria: In accordance with ASTM C 109 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi]. Pre-blended portland cement and lime product is to be a performance-based mix containing equal parts Type I portland cement and Type [S] [ ] lime, with the specified color pigment added as required to achieve the color specified by the ENGINEER.
  - h. Mixing:
    - 1) Thoroughly mix in quantities needed for immediate use.
    - 2) Mix mortar for a period of time not less than 5 minutes nor more than 10 minutes in a mechanical mixer with the amount of water required for the desired workability.
    - 3) Mortar may be retempered by adding water as required. Use mortar within [2 1/2] [ ] hours after initial mixing at ambient temperatures below [80] [ ]°F and within [1 1/2] [ ] hours after initial mixing at ambient temperatures over [80] [ ]°F.
    - 4) Provide uniformity of color in exposed mortar.

*Include the following paragraph if site-mixed mortar is desired.*

### **SECTION 04 22 00 – CONCRETE MASONRY UNIT, PART 2, SUBPARAGRAPH 2.2.C.**

**ADD:**

- 3. Site-mixed mortar:
  - a. Provide site-mixed mortar, portland cement, sand, and color mix when color is specified.
  - b. Design criteria: In accordance with ASTM C 270 Type [S 1,800 min. psi] [M 2,500 min. psi] [N 750 min. psi].

- c. Jobsite mixing of mortar:
- 1) Mix using mechanical mixer. Hand mixing is not permitted.
  - 2) Mix appropriately 3/4 of required water, all of cement and lime, and 1/2 of aggregate for minimum of 2 minutes.
  - 3) Add remainder of water and aggregate; mix for a minimum of 3 minutes.

**DIVISION 5**

*The following table is to be added if required for the project.*

**SECTION 05 05 26 – WELDING, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

E. Welding and Nondestructive Testing Requirements:

<b>WELDING AND NONDESTRUCTIVE TESTING</b>						
Specification Section No.	Governing Welding Codes or Standards	Submit Welding Procedure Spec.	Submit Welder/ Welding Operator Qual.	Onsite Welding Construction Project Inspector Req'd	Submit Written Nondestructive Testing Procedure Specifications	Nondestructive Testing Requirements
05 05 26 05 50 00	AWS D1.1, Structural Welding Code-Steel	Yes	Yes	No	No	100% VT <sup>(1)</sup> of all welds; as specified in Section 05 05 26

<sup>(1)</sup> VT = Visual Testing

*Edit the following to suit the Project requirements.*

**SECTION 05 50 00 – METAL FABRICATIONS, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

B. System Description:

1. Minimum design loads:
  - a. Pedestrian loading:
    - 1) Uniform load of [100] [ ] psf.
    - 2) Concentrated load of [300] [ ] lbs.
    - 3) Maximum deflection under loading: [L/180] [L/240].
  - b. Vehicular loading:
    - 1) Uniform load of [500] [ ] PSF.
    - 2) Concentrated load of [2000] [ ] lbs.
    - 3) Maximum deflection under loading: [L/180] [L/240].
  - c. Guard rails and handrails:
    - 1) Concentrated lateral force of [250] [ ] lbs. at any point.
    - 2) Uniform load of [50] [ ] lbs. per linear foot applied in any direction.
    - 3) Maximum deflection under loading: [L/180] [ ].
  - d. Ladders and Cage Ladders:
    - 1) Concentrated vertical rung load of 300 lbs. at any location.
    - 2) Concentrated side rail lateral load of 100 lbs. in any direction.
    - 3) Concentrated loads to act at 10-foot vertical intervals.
    - 4) Concentrated and uniform loads do not need to be applied simultaneously.
    - 5) Fabricate guard rails and handrails in accordance with ASTM E 985.

*Include the following for full size mockups for review of construction, coordination of Work of several sections, testing, or observation of operation. Minimize mockups on smaller, less complex projects.*

**SECTION 05 50 00 – METAL FABRICATIONS, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

- C. Mockup:
1. Provide mockup of [ ].
  2. Size: [ ].
  3. Show: [ ].
  4. Locate [where directed] [ ].
  5. The approved mockup may [not] remain as part of the Work.

*Use the following to specify applicable finishes to be used on the Project.*

**SECTION 05 50 00 – METAL FABRICATIONS, PART 2**

**ADD:**

**2.5 FINISHES**

- A. [Exterior] Ferrous Metal: Galvanized; ASTM A 123, to [1.3] [2.0] [ ] ounces psf.
- B. [Interior] Ferrous Metal:
1. Shop painted except steel to be encased in concrete and surfaces to be welded.
  2. Surface preparation: in accordance with SSPC SP2 – Hand Tool Cleaning or SSPC SP3 – Power Tool Cleaning.
  3. Application: One coat; follow the coating Manufacturer's instructions.
  4. Minimum DFT: [2.0] [ ] mils.
- C. Aluminum: Mill finish.

\*\*\*\* OR \*\*\*\*

*In the following paragraphs, Class I anodized aluminum is suitable for exterior or interior use. Class II is typically used for interior locations only.*

- D. Aluminum: AAMA 611, Architectural Class [I] [II] anodized, clear.

\*\*\*\* OR \*\*\*\*

- D. Aluminum: AAMA 611, Architectural Class [I] [II] anodized, [light] [medium] [dark] bronze [black] [ ] color.

\*\*\*\* OR \*\*\*\*

- D. Aluminum: AAMA 2605 fluoropolymer coating containing minimum [50] [70]% polyvinylidene resins, [2] [3] [4] coat system, [custom] [ ] color [to be selected from Manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

- D. Aluminum: AAMA [2603 thermosetting modified acrylic enamel] [2604 polyester enamel] coating, [custom] [ ] color [to be selected from Manufacturer's full color range].
- E. Stainless Steel: NAAMM AMP 503; [No. 4 satin] [No. 8 mirror polished] [ ].

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*Edit the following paragraphs to suit the Project requirements.*

**SECTION 05 51 00 – STEEL STAIRS, PART 1, SUBPARAGRAPH 1.4.E.1**

**DELETE:**

- a. Fabricate the stair assembly to support a uniform live load of 100 pounds psf and a concentrated load of 300 pounds, with a maximum deflection of 1/240 of the span.

**SUBSTITUTE:**

- a. Fabricate the stair assembly to support a uniform live load of [ ] pounds psf and a concentrated load of [ ] pounds, with a maximum deflection of [1/180] [ ] of the span.

*Include the following for metal grating landings.*

**SECTION 05 51 00 – STEEL STAIRS, PART 2, SUBPARAGRAPH 2.2.A**

**ADD:**

6. Gratings: NAAMM MBG 531, [welded] [pressure locked] [riveted] type, [main] bar size of [ ] [by] [ ] inches, [plain] [serrated] [ ] top surface.

## DIVISION 6

*Include the following for full size mockups for review of construction, coordination of Work of several sections, testing, or observation of operation. Minimize mockups on smaller, less complex projects.*

### SECTION 06 40 00 – ARCHITECTURAL WOODWORK, PART 1, SUBPARAGRAPH 1.4

#### ADD:

- C. Mockups:
1. Size: [[8] [ ]]-feet long]. [ ]].
  2. Show: [Each trim profile]. [ ]].
  3. Locate [where directed]. [ ]].
  4. The approved mockup may [not] remain as part of the Work.

*Include the following for a Pre-Installation Conference attended by the parties performing the Work of this Section. Minimize conferences on smaller, less complex projects.*

### SECTION 06 40 00 – ARCHITECTURAL WOODWORK, PART 1, SUBPARAGRAPH 1.4

#### ADD:

- D. Pre-Installation Conference:
1. Convene [2] [ ] weeks prior to beginning Work of this Section.
  2. Attendance: ENGINEER, [OWNER], [CONTRACTOR], installer, and related trades.
  3. Review, discuss, and resolve:
    - a. Critical dimensions.
    - b. Product delivery and storage.
    - c. Staging and sequencing.
    - d. Protection of completed Work.

*Modify the following section to suit the Project:*

### SECTION 06 40 00 – ARCHITECTURAL WOODWORK, PART 2, SUBPARAGRAPH 2.1

#### DELETE:

- A. Interior trim shall be as shown on the Drawings.

#### SUBSTITUTE:

- A. Interior Trim:
1. Graded in accordance with AWI Section 100 requirements for quality grade specified, average moisture content of [6] [ ]%.
  2. [ ] species, [ ] cut, of quality suitable for [opaque] [transparent] finish.
  3. [Open] [Closed] grain [hardwood], [softwood], of quality suitable for opaque finish.

*Include the following to specify applicable finishes for the Project:*

### SECTION 06 40 00 – ARCHITECTURAL WOODWORK, PART 2

#### ADD:

#### 2.4 FINISHES

- A. Finish System: In accordance with AWI Section 1500, Finish System No. [TR-1, Standard Lacquer]. [TR-2, Catalyzed Lacquer]. [TR-6 Catalyzed Polyurethane]. [TR-7 Polyester]. [OP-1, Standard Lacquer]. [OP-2, Catalyzed Lacquer]. [ ].
- B. Finish Standard: AWI [Custom] [Premium] [Economy] standards.

- C. Color: [ ]. [To be selected from Manufacturer's full color range].
- D. Sheen: [Satin]. [ ].

*Include the following for full size mockups for review of construction, coordination of Work of several sections, testing, or observation of operation. Minimize mockups on smaller, less complex projects.*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

- B. Mockup:
  - 1. Size: [Base [and wall] cabinet, minimum [48] [ ]-inches wide]. [ ].
  - 2. Show: Cabinets, [countertops], and hardware.
  - 3. Locate [where directed]. [ ].
  - 4. The approved mockup may [not] remain as part of the Work.

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

- A. Plastic Laminate: In accordance with NEMA LD-3; laminate grades included are standard. *(in its entirety)*

**SUBSTITUTE:**

- A. Panel Products:
  - 1. Graded in accordance with AWI Section 200 requirements for quality grade specified.
  - 2. Exposed and semi-exposed veneers: [ ] species, [ ] cut, of quality suitable for [opaque] [transparent] finish.

\*\*\*\* OR \*\*\*\*

- 1. [Open] [Closed] grain [hardwood], [softwood], of quality suitable for opaque finish.
  - 2. Certified to FSC STD-04-004.
  - 3. Panel core: Particleboard or medium density fiberboard.
  - 4. Plastic laminate: NEMA LD-3.
- B. Horizontal Surfaces:
  - 1. Backing sheet: Grade [BGF]. [ ].
  - 2. Postformed surfaces: Grade [HGP]. [ ].
  - 3. Acid resisting: Grade [LGP]. [ ].
  - 4. Other surfaces: Grade [HGS]. [ ].
- C. Vertical Surfaces:
  - 1. Backing sheet: Grade [BKL]. [ ].
  - 2. Cabinet liner: Grade [CLS]. [ ].
  - 3. Other surfaces: Grade [VGP]. [ ].
  - 4. Melamine laminate: Grade VGL.
  - 5. Colors: [ ]. [To be selected from Manufacturer's full color range].
  - 6. Finish: [Matte]. [Gloss]. [Textured]. [ ].
- D. Lumber:
  - 1. Graded in accordance with AWI Section 100 requirements for quality grade specified, average moisture content of [6] [ ]% for hardwood and [11] [ ]% for softwood.
  - 2. Exposed and semi-exposed locations: [ ] species, [ ] cut, of quality suitable for [opaque] [transparent] finish.

\*\*\*\* OR \*\*\*\*

- 1. [Open] [Closed] grain [hardwood], [softwood], of quality suitable for opaque finish.
  - 2. Certified to FSC STD-04-004.

*For plastic laminate cabinets, use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 2, SUBPARAGRAPH 2.4**

**DELETE:**

- A. Cabinets – Plastic Laminate Finish: *(in its entirety)*

**SUBSTITUTE:**

- A. Cabinets – Plastic Laminate Finish:
1. Quality: In accordance with AWI Architectural Woodwork Quality Standards, Section 400 B, [ ] Grade.
  2. Type: [ ].
  3. Semi-exposed surfaces: [Plastic laminate]. [ ].
  4. Fit exposed and semi-exposed panel edges with matching [PVC] edging.

*Include the following for wood veneer faced cabinets:*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 2, SUBPARAGRAPH 2.4**

**DELETE:**

- B. Cabinets – Transparent Finish: *(in its entirety)*

**SUBSTITUTE:**

- B. Cabinets – [Opaque] Finish:
1. Quality: In accordance with AWI Architectural Woodwork Quality Standards, Section 400 A, [ ] Grade.
  2. Type: [ ].
  3. Semi-exposed surfaces: [Wood suitable for opaque finish]. [Plastic laminate].
  4. Fit exposed and semi-exposed panel edges with matching wood edging.

*Include the following for plastic laminate countertops:*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 2, SUBPARAGRAPH 2.4**

**DELETE:**

- C. Plastic Laminate Countertops: *(in its entirety)*

**SUBSTITUTE:**

- C. Plastic Laminate Countertops:
1. In accordance with AWI Architectural Woodwork Quality Standards, Section 400 C, [ ] Grade.
  2. Fabricate from panel product.
  3. Locate end joints centered or symmetrical; join sections with concealed clamp fasteners; locate plastic laminate butt joints a minimum of 2 feet away from sinks.
  4. Provide holes and cutouts for the mounting of [ ].
  5. Edge treatment: [Postformed] [Lumber edge for transparent finish] [PVC].

*Include the following finish for wood cabinets:*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 2, SUBPARAGRAPH 2.4**

**ADD:**

- I. Wood Cabinets:
1. Transparent Finish System: AWI Section 1500, Finish System No. [TR-1, Standard Lacquer]. [TR-2, Catalyzed Lacquer]. [TR-6 Catalyzed Polyurethane]. [TR-7 Polyester]. [ ].

\*\*\*\* OR \*\*\*\*

1. Opaque finish system: AWI Section 1500, Finish System No. [OP-1, Standard Lacquer]. [OP-2, Catalyzed Lacquer]. [ ].
2. Finish standard: AWI [Custom] [Premium] [Economy] standards.
3. Color: [ ]. [To be selected from Manufacturer's full color range].
4. Sheen: [Satin]. [ ].

*Include the following for a schedule listing the required hardware for products in this Section. Coordinate with Part 2 – Products.*

**SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK, PART 3**

**ADD:**

3.5 FINISH HARDWARE SCHEDULE

DESCRIPTION	MANUFACTURER	MODEL
Door and drawer pull		
Drawer slide		
Door hinge		
Door hinge		
Cabinet lock		
Adjustable shelf standards and brackets		

## DIVISION 7

**Engineer: If SECTION 07 11 13 is applicable to your project, the following change MUST stay in the Supplementary Technical Specifications.**

### SECTION 07 11 13 – BITUMINOUS DAMPROOFING, PART 3, SUBPARAGRAPH 3.2

#### DELETE:

3.2 APPLICATION *(in its entirety)*

#### SUBSTITUTE:

3.2 APPLICATION

- A. Apply to buried structures including below grade concrete, brick, and precast concrete structures from 2 inches below finish grade elevation to the top of footings, the bottom of lower level slab, or as shown on the Drawings.
- B. Apply emulsion by brushes, rollers, or spray to a continuous and uniform coverage.
- C. Apply in 2 coats at a minimum rate of 30 sfpg/coat to 35 sfpg/coat or as recommended by the Manufacturer.
- D. In accordance with the product Manufacturer's recommendations for drying time between successive coats. Seal items projecting through dampproofing watertight with reinforcing fabric embedded in mastic.

**Engineer: If SECTION 07 13 13 is applicable to your project, the following change MUST stay in the Supplementary Technical Specifications.**

### SECTION 07 13 13 – WATERPROOFING MEMBRANE, PART 3, SUBPARAGRAPH 3.2

#### DELETE:

3.2 INSTALLATION *(in its entirety)*

#### SUBSTITUTE:

3.2 INSTALLATION

- A. Apply to roof, top and sides of slabs, hatches, and sides of buried structures including below-grade concrete, brick, and precast concrete structures, or as shown on the Drawings.
- B. Waterproofing:
  1. Prime surfaces and apply membrane to horizontal surfaces, vault roof, and vertical surfaces in accordance with the Manufacturer's recommendations.
  2. Install the waterproofing system in accordance with the Manufacturer's instructions and the NRCA Waterproofing Manual.
  3. Apply primer to the coverage rate required by the Manufacturer.
    - a. Allow the primer to dry until it is tack free.
    - b. Cover only the area to be covered with membrane in the same day.
    - c. Reapply if left uncovered for more than one day.
  4. Schedule: Apply waterproofing membrane to the entire area, up vertical access collars to 6 inches above grade, and down walls a minimum of 3 feet, or as shown on the Drawings.
  5. Form a 3/4-inch fillet with liquid membrane on the inside corners; extend a minimum of 6 inches on both sides of the corner at a minimum of 90 mils thick.
  6. Cover static cracks and joints in the substrate with a minimum 9-inch wide membrane strip.
  7. Cover dynamic cracks and joints with a minimum 8-inch wide membrane strip applied in reverse, with the release paper left in place to form a bond breaker. Then, cover with an 18-inch wide strip placed in normal manner.

8. Cover inside and outside corners with a minimum 12-inch wide membrane centered over the corner.
  9. Apply the membrane with a minimum 2 1/2 inch side and 5 inch end laps; roll the surface to eliminate wrinkles and air spaces.
  10. Lap the top edge of the membrane over the top of the wall. Terminate the top edge of the wall membrane at grade and seal with a bead of mastic.
  11. Terminate the bottom edge of the membrane within one inch of the bottom of the wall and seal the edge with a trowel bead of mastic.
  12. Apply the membrane on horizontal surfaces starting at the low point, laying the membrane perpendicular to slope. Overlap joints as recommended by the Manufacturer.
  13. Provide a double membrane layer a minimum of 6 inches around penetrations and seal with mastic.
  14. If the application is not complete at the end of the Work day, seal the exposed edges with mastic.
- C. Drainage Board:
1. Apply drainage board the same day the membrane is applied.
  2. Install in accordance with the Manufacturer's instructions.
  3. Cut pieces from roll to required length. Cut to fit around penetrations and at the perimeter.
  4. Secure sheets to the waterproofing membrane with adhesive. Place with the filter fabric to the earth.
  5. Overlap and secure filter fabric on adjacent sheets.
- D. Protection Board:
1. Apply protection board the same day the membrane is applied.
  2. Install in accordance with the Manufacturer's instructions.
  3. Apply adhesive at the rates recommended by the Manufacturer. Set boards in adhesive with edges butted.
  4. Complete backfilling as soon as possible after the application of protection board, within 7 days at a maximum.

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*Substitute if necessary to revise flame spread requirements for Project.*

#### **SECTION 07 21 15 – THERMAL INSULATION, PART 1, SUBPARAGRAPH 1.4**

**DELETE:**

- A. Fire Hazard Classification: *(in its entirety)*

**SUBSTITUTE:**

- A. Fire Hazard Classification:
1. Rigid insulation: Classified by UL.
  2. Batt insulation: Noncombustible, tested in accordance with ASTM E 136.

**\*\*OR\*\***

2. Batt insulation: Flame spread rating of [25] [200] or less, tested in accordance with ASTM E 84.

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*In this Section, verify wind pressures in accordance to ASCE 7 and the local and national building codes and insert positive and negative wind pressures and modify Project requirements using the text below.*

#### **SECTION 07 41 00 – METAL PANELS, PART 1, SUBPARAGRAPH 1.4**

**DELETE:**

- B. System Description: *(in its entirety)*

**SUBSTITUTE:**

- B. System Description:
  - 1. Design requirements; design roof system to withstand:
    - a. Live and dead loads in accordance with Building Code.
    - b. Minimum wind pressures [Building Code], [ ] to withstand dead and live loads caused by wind pressures as follows:
      - 1) Positive pressure: [20] psf normal to panel.
      - 2) Negative pressure: [20] psf normal to panel.
      - 3) Maximum allowable deflection of [ ], tested in accordance with [ ].
    - c. Movement caused by an ambient temperature range of [ ]°F and a surface temperature range of [ ]°F.
  - 2. Roof panel performance requirements:
    - a. Air leakage: Maximum [no measurable leakage] per square foot of roof area, measured at reference differential pressure across assembly of [ ] psf, tested in accordance with ASTM E 1680.
    - b. Water penetration: None, tested in accordance with ASTM E 1646 with test pressure of [ ] psf.
    - c. Wind Uplift: UL 90 rated roof system, tested in accordance with UL 580 test procedure.
  - 3. Wall panel/soffit performance requirements:
    - a. Air leakage: Maximum [ ] per linear foot of panel seam measured at reference differential pressure across assembly of [ ] psf, tested in accordance with ASTM E 283.
    - b. Water penetration: None, tested in accordance with ASTM E 331 with test pressure of [ ] psf.

*Use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 07 41 00 – METAL PANELS, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

- B. Roof Panels: *(in its entirety)*
- C. Wall Panels and Soffits: *(in its entirety)*

**SUBSTITUTE:**

- B. Roof Panels:
  - 1. Material: Fabricate panels from a minimum [ ] gauge steel sheet.
  - 2. Panel profile: [ ] inch high [ ] seams spaced [12] [ ] inches on center.
  - 3. Texture: [Striated] pan.
  - 4. Seam sealant: Continuous factory-installed, hot-melt sealant on the bottom edge of the female seam so as not to be interfered by the panel clip.
  - 5. Color: [ ].
- C. Wall Panels and Soffits:
  - 1. Material: Fabricate panels from a minimum [ ] gauge steel sheet.
  - 2. Panel profile: [ ]-inch wide by [ ]-inch deep, interlocking edges for concealed fasteners.
  - 3. Texture: [Flat with 2 stiffening ribs]. [Waved pattern].
  - 4. Color: [ ].

*Use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 07 41 00 – METAL PANELS, PART 2, SUBPARAGRAPH 2.3**

**DELETE:**

- A. Perimeter Underlayment: *(in its entirety)*

**SUBSTITUTE:**

- A. Perimeter Underlayment:

1. Minimum [ ] mil thick, SBS-modified asphalt-fabric-reinforced, self-adhering with release film facing in accordance with ASTM D 146.
2. Elongation: Minimum [ ]%.
3. Tensile strength: Minimum [ ] psi, tested in accordance with ASTM D 882.

*Delete if the entire roof is covered with the product above:*

**SECTION 07 41 00 – METAL PANELS, PART 2, SUBPARAGRAPH 2.3**

**DELETE:**

- B. Base Sheet: Asphalt saturated felt, No. 30, in accordance with ASTM D 226.

*Modify the CPCS if underlayment is used for the entire roof surface:*

**SECTION 07 41 00 – METAL PANELS, PART 3, SUBPARAGRAPH 3.1.A**

**DELETE:**

2. Install base sheet at the entire surface to receive roofing.

**SUBSTITUTE:**

2. Install underlayment at the remaining entire surface to receive roofing.

---

*Modify below as required to suit the Project:*

**SECTION 07 51 13 – BUILT UP ASPHALT ROOFING, PART 3, SUBPARAGRAPH 3.2.B**

**DELETE:**

5. Mechanically fasten to the substrate in the Manufacturer's recommended fastening pattern for the corner, perimeter, and field uplift pressures specified.

**SUBSTITUTE:**

5. Mechanically fasten to the substrate in the Manufacturer's recommended fastening pattern for the [FM windstorm classification] specified.

**\*\*OR\*\***

*Include the following for an adhered application:*

**SECTION 07 51 13 – BUILT UP ASPHALT ROOFING, PART 3, SUBPARAGRAPH 3.2.B**

**SUBSTITUTE:**

5. Install each layer of insulation and cover board and adhere to substrate in a solid mopping of hot roofing asphalt. Fit insulation to other boards and at perimeter and around penetrations with maximum [1/4] [ ] inch voids.

---

*Include the following for full size mockups for review of construction, coordination of Work of several sections, testing, or observation of operation. Minimize mockups on smaller, less complex projects.*

**SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

- C. Mockup:
1. Size: [ ].
  2. Include: [Counterflashing] [Coping] [Downspout] [ ].

3. Locate [where directed]. [ ].
4. The approved mockup may [not] remain as part of the Work.

*Use the CPCS text and delete the following, or markup to replace the CPCS text:*

## **SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM, PART 2**

### **DELETE:**

2.2 MATERIALS *(in its entirety)*

### **SUBSTITUTE:**

2.2 MATERIALS

- A. Galvanized Steel Sheet:
  1. Structural quality, [ ] gauge core steel, in accordance with ASTM A 653, [ ] coating class.
  2. Where sheet metal is to be painted, apply phosphate film at the factory.
- B. Pre-coated Galvanized Steel Sheet:
  1. Steel, [ ] gauge, in accordance with ASTM A 792.
  2. Finish: Pre-coated with fluoropolymer coating, containing minimum 70% PVDF resins, to be selected from the Manufacturer's full color range.
- C. Aluminum-Zinc Alloy Coated Steel Sheet: In accordance with ASTM A 792, Commercial Quality, [ ] aluminum-zinc alloy coating, [ ] gauge core steel unless noted otherwise.
- D. Lead Sheet: Common lead, weighing 4 lbs/sf, in accordance with ASTM B 749, Type L50049.

*Specify finish color for the Project:*

## **SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM, PART 2, SUBPARAGRAPH 2.5.A**

### **ADD:**

5. Color: As selected by the ENGINEER from [AEP] [ ] standard colors.

*Use as specified in the CPCS and delete below, or modify using text below.*

## **SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM, PART 2, SUBPARAGRAPH 2.5**

### **DELETE:**

- B. Pre-Manufactured Flashing: *(in its entirety)*
- C. Pre-Manufactured Coping: *(in its entirety)*

### **SUBSTITUTE:**

- B. Pre-Manufactured Flashing:
  1. Manufactured [ ] gauge [prefinished], 2-piece reglet and counterflashing.
  2. Type: [CO] [MA].
  3. Corners: Provide the Manufacturer's standard factory mitered and sealed [inside] corners.
  4. Fasteners: Manufacturer's standard drive pins with 7/8-inch diameter stainless steel washers with neoprene facing.
- C. Pre-Manufactured Coping:
  1. [Aluminum] [prefinished] coping system, with Kynar coating: [0.052 inch] [ ] gauge.
  2. Concealed splice shall match the color and finish of cap.
  3. Galvanized steel gutter chairs and anchor cleats: 20 gauge.
  4. Provide the Manufacturer's standard corners and end caps.

---

*Replace CPCS text if 12 inches is insufficient, or delete this text:*

## SECTION 07 72 00 – MANUFACTURED ROOF CURBS, PART 2, SUBPARAGRAPH 2.2.A.1

### DELETE:

- a. Height: 12-inches, minimum.

### SUBSTITUTE:

- a. Height: [16] [ ]-inches, minimum.
- 

*Replace CPCS text with the following modified text, or delete this text:*

## SECTION 07 72 33 – ROOF HATCHES, PART 2, SUBPARAGRAPH 2.2

### DELETE:

- B. Manufactured Units: *(in its entirety)*
- C. Ladder Extension: 42-inch high, telescoping steel tube, automatically locking when extended.

### SUBSTITUTE:

- B. Manufactured Units:
  - 1. Roof Hatch:
    - a. Type: [ ] leaf, [ ] access.
    - b. Nominal opening size: [ ]-inches wide by [ ]-inches long.
    - c. Frame: Minimum [ ] gauge aluminum with [ ]-inch high curb, integral cap flashing, [ ]-inch wide flanges with attachment holes and [ ]-inch thick fiberboard insulation bonded to exterior.
    - d. Cover: Minimum [ ] gauge aluminum exterior and [ ]-inch thick aluminum liner bonded to [ ]-inch thick rigid insulation core.
    - e. Hardware – stainless steel:
      - 1) Stainless steel pintle hinges.
      - 2) Neoprene weather seal.
      - 3) Compression spring-operated lifting mechanism.
      - 4) Automatic locking hold open arms.
      - 5) Latching device with inside and outside handles.
      - 6) Inside padlock hasp.
    - f. Finish: [ ].
  - C. Ladder Extension: [ ]-inch high, telescoping steel tube, automatically locking when extended.

*Replace CPCS text with the following for vault and reservoir utility hatches.*

## SECTION 07 72 33 – ROOF HATCHES, PART 2

### DELETE:

- 2.1 APPROVED MANUFACTURERS *(in its entirety)*
- 2.2 MATERIALS *(in its entirety)*

### SUBSTITUTE:

- 2.1 APPROVED MANUFACTURERS
  - A. Roof Hatches:
    - 1. Babcock-Davis Hatchways, Inc.
    - 2. Bilco Company, Type E
    - 3. Milcor/Lima Register
    - 4. Precision Ladder, LLC
  - B. Ladder Extension:
    - 1. Bilco Co., LadderUP Safety Post, Model LU-1
  - C. Anchor Bolts
    - 1. ITW Ramset/Red Head, Wood Dale, IL; Trubolt Wedge Anchor

2. Hilti, Inc. Tulsa, OK; Kwik-Bolt II Stud Anchor
3. The Rawplug Company, New Rochelle, NY; Rawl-Stud Anchor
4. Wej-It Corp., Tulsa, OL; ANKRtite Wedge Anchor

## 2.2 MATERIALS

- A. Aluminum Sheet: In accordance with ASTM B 209, alloy 3003.
- B. Manufactured Units:
  1. Cover Leaf:
    - a. The door leaf shall be manufactured from 11 gauge aluminum with an 18 gauge aluminum liner.
    - b. The cover shall be insulated with one inch glass fiber between the liner and cover material.
    - c. The cover shall have a continuous extruded gasket all around the cover perimeter to provide a positive, complete, seal onto the top surface of the curb to prevent entry of insects, dust and snow when the cover is closed. Splices or gaps in the gasket are unacceptable.
    - d. The equipment hatch cover shall be equipped with an enclosed 2 point snap lock.
    - e. Covers shall automatically lock in the open position with a rigid hold open arm equipped with a vinyl grip to permit easy release for opening.
  2. Curb:
    - a. The 12 inch high fully enclosed curb shall be manufactured from 11 gauge aluminum inside and outside. The curb shall have a 3 1/2-inch flange with holes for anchors to secure the hatch to the concrete pedestal. The curb shall be equipped with an integral 11 gauge aluminum cap flashing fully welded at the corners and weathertight.
    - b. Anchor bolt holes in the flange of the curb shall be 7/16 inch diameter and spaced no greater than 9 inches.
  3. Anchor bolts:
    - a. Wedge style, stainless steel.
  4. Hardware:
    - a. Hardware shall be stainless steel, Type 302 or 304, including the latch assembly, arm guide bracket, hinges, hinge pins, hold open arm, lock strike, spring tubes, shoes and all fasteners.
    - b. Cover hardware shall be bolted to the cover into heavy gauge channel supports welded to the underside of the cover and concealed within the insulation space.
    - c. The hatch shall be completely assembled with heavy pintle hinges and compression spring operators enclosed in telescopic tubes. The upper tube shall be the outer tube to prevent accumulation of moisture, grit and debris inside the tube assembly.
    - d. The lock strike shall be 5/8 inch wide. Strike width shall be shown on the Drawings.
  5. Handle:
    - a. Provide a plain handle with no hasp or padlock on the lid.
    - b. OWNER will weld a box around the handle and install its own lock design to secure the hatch.

---

*Modify to meet project requirements.*

## SECTION 07 92 00 – JOINT SEALERS, PART 3

**ADD:**

### 3.4 JOINT SEALER SCHEDULE

- A. Sealant Color Selection: Submit color charts of all available colors and wet samples of colors from the initial selection as specified in this Section.
- B. Color selection for sealants will not be limited to one color for each sealant type.
- C. The ENGINEER may select different sealant colors for the same sealant type at exterior and interior joint conditions if applicable.
- D. The ENGINEER may select up to 2 colors for each joint sealer type.
- E. The ENGINEER may select up to   custom colors on the Project.

F. Products listing schedule:

JOINT LOCATION OR TYPE	SEALER TYPE
Exterior Joints:	
Floor Control and expansion joints subject to [pedestrian] [or] [vehicular] traffic	1
Expansion joint between concrete slab-on-grade and building walls or other elements	1
Perimeters of exterior openings where window and door frames meet adjacent building materials	[2] [5]
Wall expansion and control joints, joints between precast concrete pieces, sections of masonry	[2]
Joints in [fountains] [water features] [ ]	7
Joints in vertical surfaces at dissimilar materials	[2] [3] [9]
Expansion joint between concrete slab-on-grade and building walls or other elements at chemical storage areas and areas with the possibility of being exposed to chemicals from adjacent chemical areas or rooms	[7]
Interior Joints:	
Floor Control and expansion joints subject to [pedestrian] [or] [vehicular] traffic	1
Floor Control and expansion joints at chemical storage areas and areas with the possibility of being exposed to chemicals from adjacent chemical areas or rooms	[7]
Seal interior perimeters of exterior openings as detailed on drawings	[2]
Perimeters of interior frames, as detailed and itemized	[2] [4]
Joints at perimeter of plumbing fixtures	6
Wall control and expansion joints	[2]
Joints in acoustical assemblies	8
Field painted vertical and overhead joints not indicated otherwise	4

## DIVISION 8

*Modify the following to establish wind load requirements:*

### SECTION 08 36 00 – SECTIONAL OVERHEAD DOORS, PART I, SUBPARAGRAPH 1.3.A.1

**ADD:**

- a. Design wind load: [20] psf.

*Use as specified in the CPCS and delete below or modify using text:*

### SECTION 08 36 00 – SECTIONAL OVERHEAD DOORS, PART 2

**DELETE:**

- 2.3 OPERATION *(in its entirety)*

**SUBSTITUTE:**

- 2.3 OPERATION

- A. Type: [Manual push-up] [Chain hoist] [Motor with chain hoist] operation.
- B. Electric Operator:
1. Type: [trolley] type [gear] drive with a totally enclosed motor, with an instant reversing feature.
  2. Rating: Continuous duty [1/3] [1/2] [ ] hp as recommended by the door Manufacturer for the size and type of door.
  3. Electrical characteristics: [115/230 VAC 1-Phase].
  4. Control station: [ ] V; [ ] station marked OPEN, CLOSE, and STOP.
- C. Entrapment Protection – Door Bottom Safety Edge: Full door width, weather edge seal, electric sensing type, to reverse the door travel to the fully open position upon the striking of an object.

\*\*\*\* OR \*\*\*\*

- C. Entrapment Protection – Photoelectric Sensor: Detect obstruction and reverse the door to the fully open position without requiring the door to contact the obstruction.

*Use as specified in the CPCS and delete below or modify using text:*

### SECTION 08 36 00 – SECTIONAL OVERHEAD DOORS, PART 2

**DELETE:**

- 2.4 COMPONENTS *(in its entirety)*

**SUBSTITUTE:**

- 2.4 COMPONENTS

- A. Door Sections:
1. Construction: Exterior and interior steel skins separated by a continuous dual durometer vinyl extrusion held in place by a mechanical interlock to form an effective thermal break and a complete weather-tight seal along the section joint.
  2. Exterior skin: [ ] gauge roll formed, commercial quality hot-dipped galvanized steel, in accordance with ASTM A 924 and ASTM A 653.
  3. Interior skin: [ ] gauge roll formed, commercial quality hot-dipped galvanized steel, in accordance with ASTM A 924 and ASTM A 653.
  4. Section thickness: [ ]-inches.
  5. End stiles: [ ] gauge channel galvanized steel, full height, separated from the exterior skin with a vinyl thermal break.
- B. Insulation: 2 7/8-inch thickness expanded polystyrene.

- C. Reinforcing: Steel struts as required for the design wind load and to limit door deflection in the horizontal position to a maximum of 1/120 of the door width.
- D. Track:
  - 1. Material: [2]-inch galvanized steel, in accordance with ASTM A 653, Grade 40.
  - 2. Vertical track: Continuous angle-mounted tracks for steel or concrete jambs, graduated to provide wedge type weathertight closing, and fully adjustable for sealing the door to the jamb.
  - 3. Horizontal track: Reinforce with a continuous angle consistent with door size and weight.
  - 4. Lift type: [Standard lift] [High lift] [Vertical lift] [Low headroom].
- E. Counterbalance: Heavy duty, oil-tempered wire torsion springs on a continuous ball bearing cross header steel shaft:
  - 1. Provide a minimum of [50,000] [25,000] cycles of use.
  - 2. Galvanized aircraft type lifting cables with a minimum safety factor of 5 to 1.
- F. Hardware:
  - 1. Hinges and brackets: Form from hot-dipped galvanized steel.
  - 2. Track rollers: Full floating ball bearing type with hardened steel races.
- G. Windows:
  - 1. Lights: Extruded PVC light frames, size 36-inch by 14-inch or 42-inch by 14-inch, use the [ ].
  - 2. Glazing: [ ]-inch thickness [exterior pane] [tinted] [reflective], color [ ].
- H. Weatherstripping:
  - 1. Door head: A continuous length EPDM rubber sealing strip.
  - 2. Jambs: A clip-on rigid retainer and replaceable rubber seal.
  - 3. Bottom: A continuous length aluminum retainer and a U-shaped [vinyl] seal.
  - 4. Between sections: A dual-durometer vinyl weather seal, mechanically interlocked thermal break.

**Coordinate the following to determine compatibility with the Owner's keying system:**

- I. Lock: Interior lock, deadbolt mounted on section engaging through the track to accept OWNER's padlock.
- \*\*\*\* OR \*\*\*\*
- I. Lock: Exterior lock, masterkeyable tumbler type with a night latch and steel bar engaging the track

**Use as specified in the CPCS and delete below, or modify using text below.**

**SECTION 08 41 13 – ALUMINUM ENTRANCES AND STOREFRONT, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

- B. Storefront Framing: *(in its entirety)*
- C. Entrance Doors: *(in its entirety)*

**SUBSTITUTE:**

- B. Storefront Framing:
  - 1. Frame nominal wall thickness: 0.080-inches.
  - 2. Frame member depth: [ ] inches.
  - 3. Frame member face: [ ] inches.
  - 4. Thermal barrier: Rigid, structural thermal barrier providing a separation between interior and exterior aluminum surfaces consisting of 2-part, chemically curing, high-density polyurethane.
- C. Entrance Doors:
  - 1. Type: Stile and rail design of 1 3/4-inch tubular framing members, with welded and mechanical joints using heavy reinforcing channels with backup plates.
  - 2. Frame nominal wall thickness: 0.125-inches.
  - 3. Door moldings nominal wall thickness: 0.050-inches.

4. Stile width: [ ]-inches.
5. Top rail height: [ ]-inches.
6. Mid rail height: [ ]-inches.
7. Bottom rail height: [ ]-inches, [ ].

*Use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 08 41 13 – ALUMINUM ENTRANCES AND STOREFRONT, PART 2,  
SUBPARAGRAPH 2.3**

**DELETE:**

- A. Hardware: *(in its entirety)*

**SUBSTITUTE:**

- A. Hardware:
1. Refer to the hardware schedule as specified in SECTION 08 71 00 for items noted below that are not provided by the entrance system Manufacturer:
    - a. Continuous hinges: [Geared type hinge provided by the door manufacturer]
    - b. Surface mounted door closers: [See hardware schedule].
    - c. Cylinders: [See hardware schedule].
    - d. Panic: [See hardware schedule].
    - e. Pull handles: [See hardware schedule].
    - f. Threshold: [See hardware schedule].
    - g. Weatherstrip: Door Manufacturers standard at head and jambs. [See hardware schedule for sill sweep].
    - h. Sill sweep.

*Include the following to specify finishes for the Project:*

**SECTION 08 41 13 – ALUMINUM ENTRANCES AND STOREFRONT, PART 2**

**ADD:**

**2.5 FINISHES**

- A. Aluminum: AAMA 611, [AA-M12-C22-A44], Architectural Class I anodized to 0.0007-inch minimum thickness, [dark] bronze [ ] color.

\*\*\*\* OR \*\*\*\*

- A. Aluminum: AAMA 2605, [AA-M12-C42-R1X], organic with 70% PVDF fluoropolymer coating, [ ] color.

---

*Use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 08 44 13 – ALUMINUM CURTAINWALL, PART 2, SUBPARAGRAPH 2.2**

**DELETE:**

- B. Curtainwall Framing: *(in its entirety)*

**SUBSTITUTE:**

- B. Curtainwall Framing:
1. Frame nominal wall thickness: 0.093-inch to 0.125-inch.
  2. Frame member depth: [ ] inches.
  3. Frame member face: [ ] inches.
  4. Thermal barrier: A rigid, structural thermal barrier providing a separation between the interior and exterior aluminum surfaces consisting of extruded PVC.

*Include the following to specify finishes for the Project.*

**SECTION 08 44 13 – ALUMINUM CURTAINWALL, PART 2**

**ADD:**

2.4 FINISHES

A. Aluminum: AAMA 611, [AA-M12-C22-A44], Architectural Class I anodized to 0.0007-inch minimum thickness, [dark bronze] [ ].

**\*\*OR\*\***

A. Aluminum: AAMA 2605, [AA-M12-C42-R1X], organic with 70% PVDF fluoropolymer coating, [ ] color.

---

*Use if required to modify compression seal windows or delete text.*

**SECTION 08 51 13 – ALUMINUM WINDOWS, PART 1, SUBPARAGRAPH 1.4.D.1.**

**DELETE:**

a. Product type: *(in its entirety)*

**SUBSTITUTE:**

a. Product type:

- 1) Compression seal windows: [C - Casement]. [VP - Vertical Pivoted]. [HP - Horizontally Pivoted]. [SHW - Single-Hinged Inswinging]. [TH - Top-Hinged Inswinging].
- 2) Fixed windows: F – Fixed.

*Use if required for sliding windows or delete text:*

**SECTION 08 51 13 – ALUMINUM WINDOWS, PART 1, SUBPARAGRAPH 1.4.D.1.**

**DELETE:**

a. Product type: *(in its entirety)*

**SUBSTITUTE:**

a. Product type:

- 1). Sliding windows: [H - [Single] [Double] [Triple] Hung]. [HS - Horizontal Sliding]. [DW-Dual]. [VS - Vertical Slide].

*Include the following for full size mockups for review of construction, coordination of Work of several sections, testing, or observation of operation. Minimize mockups on smaller, less complex projects. Delete text if not required.*

**SECTION 08 51 13 – ALUMINUM WINDOWS, PART 1, SUBPARAGRAPH 1.4**

**ADD:**

E. Mockup:

1. Size: [One full sized window unit]. [ ].
2. Locate [where directed]. [ ].
3. The approved mockup may [not] remain as part of the Work.

*If other window types other than projected windows are being specified, edit the requirements below accordingly:*

**SECTION 08 51 13 – ALUMINUM WINDOWS, PART 2, SUBPARAGRAPH 2.2.A.8**

**ADD:**

- c. Horizontal sliding windows: Extruded PVC interfacing tracks and cam type lock.
- d. [Single] [Double] hung windows: Concealed [spiral] [block and tackle] [tape] sash counterbalances, cam locks, and pulls.
- e. [Casement] [Awning] [ ] windows: [Lever action handle] [Geared rotary handle] operator, projecting sash arms with limit stops, and cam type lock.

*Include the following to specify finishes for the Project:*

**SECTION 08 51 13 – ALUMINUM WINDOWS, PART 2**

**ADD:**

**2.5 FINISHES**

- A. Aluminum: AAMA 611, [AA-M12-C22-A44], Architectural Class I anodized to 0.0007-inch minimum thickness, [[dark] bronze] [ ] color.

\*\*\*\* OR \*\*\*\*

- A. Aluminum: AAMA 2605, [AA-M12-C42-R1X], organic with 70% PVDF fluoropolymer coating, [ ] color.

---

*Determine the design wind pressure for the Project and insert applicable criteria below:*

**SECTION 08 63 00 – FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLIES, PART 1, SUBPARAGRAPH 1.4.E.2.a**

**ADD:**

- 1) The system shall withstand the following loads: [ ] psf positive pressure and [ ] psf negative pressure.
- 2) Live and dead loads in accordance with [Building Code]. The system shall withstand the following loads: [ ] psf. Dead load: [ ] psf.

---

*Choose project colors or delete text if not required.*

**SECTION 08 80 00 – GLAZING, PART 2, SUBPARAGRAPH 2.2.B**

**ADD:**

- 1. Color: [Green] [ ].

*Choose project colors or delete text if not required.*

**SECTION 08 80 00 – GLAZING, PART 2, SUBPARAGRAPH 2.2.E**

**ADD:**

- 1. Color: [Green] [ ].

*Choose project colors or delete text if not required.*

## **SECTION 08 80 00 – GLAZING, PART 2, SUBPARAGRAPH 2.2.F**

**ADD:**

1. Color: [Green] [ ].

*Include the following for a schedule listing the products in this Section. Coordinate with Part 2 – Products.*

## **SECTION 08 80 00 – GLAZING, PART 3**

**ADD:**

### **3.5 SCHEDULE**

- A. Type [GL-1]:
  1. Description: [ ]
    - a. Outboard lite: [1/4]-inch thick [tinted] glass, [heat strengthened or] tempered where required, [with low-e coating on No. [2] [3[surface]].
    - b. Inboard lite: [1/4]-inch thick clear glass, [tempered where required].
    - c. Total unit thickness: [One]-inch.
  2. Performance characteristics:
    - a. Visible transmittance: [73]%.  
b. Solar transmittance: [52]%.  
c. Ultraviolet transmittance: [36]%.  
d. Visible reflectance: [17]%.  
e. Solar reflectance: [14]%.  
f. U-value: [0.33] winter nighttime; [0.33] summer daytime.  
g. Shading coefficient: [0.76].  
h. Relative heat gain: [0.66].  
i. Emissivity: [0.15].  
j. Locations: [Aluminum windows] [ ].
- B. Type [GL-2]:
  1. Description: [1/4]-inch thick clear tempered glass.
  2. Locations: Interior doors and glazed openings at locations subject to human impact.
- C. Type [GL-3]:
  1. Description: [1/4]-inch thick clear glass.
  2. Locations: Interior glazed openings at locations not subject to human impact.
- D. Type [GL-4]:

*Select 3/16-inch firelite for rated conditions and 5/16-inch firelite for rated conditions requiring impact safety-rated glazing.*

1. Description: [3/16] [5/16]-inch fire-rated glass.
2. Locations: [Door] [window] openings as indicated.

## DIVISION 9

*Use the following to specify tile setting methods required for the Project:*

### SECTION 09 30 00 – TILE, PART 3, SUBPARAGRAPH 3.2

#### DELETE:

P. Setting Methods: In accordance with the Contract Documents.

#### SUBSTITUTE:

P. Setting Methods:

1. General: Provide reinforcing, membrane, and other accessories required in specific TCNA methods specified below.

*Choose from the setting methods listed below to suit Project conditions, or add methods from the TCA Handbook for Ceramic Tile Installation. Edit the materials sections to show only the materials applicable to the selected methods.*

2. Floor: Thin-set installation, heavy performance level, dry interior locations over concrete slabs and floor structures with deflection not to exceed 1/360 of the span.

*TCA Method F111 is the preferred method for concrete structures subject to movement and deflection. TCA Method F113 with acrylic polymer emulsion admixtures to mortar and grout may be acceptable when installation occurs at above grade structures with a substrate deflection greater than 1/360 of the span but less than 1/240 of the span; verify with the mortar/grout Manufacturer.*

- a. TCA Method F113.
- b. Mortar: In accordance with ANSI A118.4 latex portland cement.
- c. Grout: [In accordance with ANSI A118.7 polymer modified grout] [In accordance with ANSI A118.6 standard cement grout].
- d. Installation specification: In accordance with ANSI A108.5 and ANSI A108.10.
3. Floor: Thick-set installation, heavy performance level, dry interior locations over concrete floors subject to bending and deflection.
  - a. TCA Method F111.
  - b. Mortar bed: In accordance with ANSI A108.1B portland cement, reinforcing cleavage membrane.
  - c. Grout: [In accordance with ANSI A118.7 polymer modified grout] [In accordance with ANSI A118.6 standard cement grout].
  - d. Installation specification: In accordance with ANSI A108.1B and ANSI A108.10.

*The following is for shower floors:*

4. Shower floors: Thick-set installation, heavy performance level, wet shower locations over concrete or wood floors.
  - a. TCA Method F415, used in conjunction with Method W244 at walls. Slope setting bed to drain.
  - b. Mortar: In accordance with ANSI A118.4 latex portland cement.
  - c. Grout: [In accordance with ANSI A118.7 polymer modified grout] [In accordance with ANSI A118.6 standard cement grout].
  - d. Fiber cement underlayment: In accordance with ASTM C 1288. Slope substrate to drain.
  - e. Waterproof membrane: In accordance with ANSI A118.10 and ANSI A118.12 elastomeric.
  - f. Installation specification: In accordance with ANSI A108.1B and ANSI A108.10.
5. Wall: Dry interior locations over gypsum board:
  - a. TCA Method W243.
  - b. Mortar: In accordance with ANSI A118.4 latex portland cement.
  - c. Grout: [In accordance with ANSI A118.7 polymer modified grout] [In accordance with ANSI A118.6 standard cement grout].

- d. Installation specification: In accordance with ANSI A108.5 and ANSI A108.10.
6. Wall: Wet interior locations over cementitious backer board:
  - a. TCA Method W244.
  - b. Mortar: In accordance with ANSI A118.4 latex portland cement.
  - c. Grout: [In accordance with ANSI A118.7 polymer modified grout] [In accordance with ANSI A118.6 standard cement grout].
  - d. Moisture-resistant membrane: 15# asphalt roofing felt.
  - e. Installation specification: In accordance with ANSI A108.5 and ANSI A108.10.

---

*Replace CPCS text with the following modified text, or delete this text:*

**SECTION 09 51 00 – ACOUSTICAL CEILINGS, PART 1, SUBPARAGRAPH 1.4**

**DELETE:**

- C. Fire Hazard Classification: Class A rated, tested in accordance with ASTM E 84.

**SUBSTITUTE:**

- C. Fire Hazard Classification: Class [ ] rated, tested in accordance with ASTM E 1264.

*Use as specified in the CPCS and delete below, or modify using text below:*

**SECTION 09 51 00 – ACOUSTICAL CEILINGS, PART 2**

**DELETE:**

2.2 MATERIALS *(in its entirety)*

**SUBSTITUTE:**

2.2 MATERIALS

A. Suspension Grid System:

1. [Light] [Heavy] duty, die cut, interlocking ends, in accordance with ASTM C 635.
2. Grid type: [ ].
3. Material: [ ].
4. Runners: 1 1/2-inches high, [ ]-inch exposed width, [ ] profile.
5. Perimeter molding: [ ] shape.
6. Finish: [ ], [ ] color.
7. Accessories: Stabilizer bars, clips, splices and [ ].

B. Acoustical Panels:

1. Size: [24-inch by 24-inch] by [ ]-inch thick.
2. Edge configuration: [Tegular] [ ]
3. Performance requirements:
  - a. Tested in accordance with ASTM E 1264.
    - 1) NRC: [ ].
    - 2) CAC: [ ]
  - b. Tested in accordance with ASTM E 84:
    - 1) Flame spread: [ ].
    - 2) Smoke developed: [ ].

*Modify the blue text for washable ceiling tile:*

C. Acoustical Panels:

1. Size: [24-inch by 24-inch] by [ ]-inch thick.
2. Edge configuration: [ ].
3. Performance requirements:
  - a. Tested in accordance with ASTM E 1264:

- 1) NRC: [ ].
  - 2) CAC: [ ].
- b. Tested in accordance with ASTM E 84.
- D. Maintenance:
1. Extra materials: Minimum 2% of acoustical panels; not less than 10 units.
  2. Grid: 20 linear feet.

---

*Replace CPCS text with the following modified text, or delete this text.*

## **SECTION 09 65 13 – RESILIENT BASE, PART 2, SUBPARAGRAPH 2.2**

### **DELETE:**

- A. Resilient Base: *(in its entirety)*

### **SUBSTITUTE:**

- A. Resilient Base:
1. Type: In accordance with ASTM F 1861, Type [thermoset vulcanized rubber] thermoset vulcanized rubber Group I.
  2. Thickness: [ ]-inch.
  3. Profile: [ ].
  4. Height: [ ]-inches.
  5. Length: [ ] feet, [ ].
  6. Color: [ ].

*Include the following if premolded corners or ends are required.*

7. [End units] [and] [preformed] [inside] [and] [outside corners]: Preformed; profile, size, and color to match base.

*Replace CPCS text with the following modified text, or delete this text.*

## **SECTION 09 65 13 – RESILIENT BASE, PART 3, SUBPARAGRAPH 3.2**

### **DELETE:**

- E. Install internal corners from preformed material or fabricated from base materials, or mitered and coped.
- F. At outside corners use preformed material or a V-cut back of base to 2/3 of its thickness and bend around the corner.

### **SUBSTITUTE:**

- E. Install internal corners [from preformed material] [fabricated from base materials Mitered coped].
- F. At outside corners [use preformed material] [“V” cut back of base to 2/3 of its thickness and bend around corner].

---

*Replace CPCS text with the following modified text, or delete this text.*

## **SECTION 09 65 19 - RESILIENT TILE FLOORING, PART 2, SUBPARAGRAPH 2.2.A**

### **DELETE:**

1. In accordance with ASTM F 1066, Class 2 through pattern.
2. Size: 12-inch by 12-inch by 1/8-inch thick.
3. Color: To be selected from the Manufacturer's full color range.

### **SUBSTITUTE:**

1. In accordance with ASTM F 1066, Class [ ].

2. Size: 12-inch by 12-inch by [ ]-inch thick.
3. Color: [ ].

---

**Engineer: If SECTION 09 90 00 is applicable to your project, the following change MUST stay in the Supplementary Technical Specifications.**

## **SECTION 09 90 00 – PAINTING AND COATING, PART 2, SUBPARAGRAPH 2.1**

### **DELETE:**

- A. High Performance Coatings: *(in its entirety)*

### **SUBSTITUTE:**

- A. High Performance Coatings:
  1. Ameron Protective Coatings
  2. DuPont Chemical Company
  3. Hempel Inc.
  4. Keeler and Long, PPG
  5. Master Builders, Inc.
  6. Pittsburgh Paints
  7. Plas-Chem Coatings
  8. Porter-International
  9. Sigma Coatings, Inc.
  10. Tnemec Coatings
  11. Valspar Corporation
  12. Wisconsin Protective Coatings

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**Engineer: If SECTION 09 97 13.01 is applicable to your project, the following change MUST stay in the Supplementary Technical Specifications.**

## **SECTION 09 97 13.01 - POLYURETHANE LININGS AND COATINGS FOR STEEL WATER PIPELINES AND FITTINGS, PART 2**

### **DELETE:**

- 2.1 APPROVED MANUFACTURERS *(in its entirety)*

### **SUBSTITUTE:**

- 2.1 APPROVED MANUFACTURERS
  - A. Chemline, Chemthane, 2265
  - B. Futura Coatings
  - C. Lifelast, Inc.
  - D. Valspar Corporation
  - E. Melt Stick or Patch Repair Materials:
    1. Canusa, 3M 206P
    2. Canusa, CRP Patch
    3. Raychem, Melt Stick
    4. Raychem, PERP
  - F. Pneumatic Pull-Off Equipment for Test Coating Adhesion to Steel Substrates:
    1. Delfesko, PosiTest AT-A
  - G. Holiday Testing:
    1. Coating Application Plant Testing Equipment: Tinker & Razor, Model APS Holiday Detector
    2. Field Testing Equipment: Tinker & Razor Model APS or M/1 Holiday Detector
  - H. Thickness Instrument:
    1. Elcometer

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**Engineer: If SECTION 09 97 13.02 is applicable to your project, the following change MUST stay in the Supplementary Technical Specifications.**

**SECTION 09 97 13.02 - EPOXY LININGS AND COATINGS FOR STEEL WATER PIPELINES AND FITTINGS, PART 2**

**DELETE:**

2.1 APPROVED MANUFACTURERS *(in its entirety)*

**SUBSTITUTE:**

2.1 APPROVED MANUFACTURERS

- A. Interior Linings:
  - 1. Devoe, RustBar 233H
  - 2. Sherwin Williams, Sherplate PW or Macropoxy PW
  - 3. Tnemec, Series 20 or Series 140
- B. Exterior Coatings:
  - 1. Sherwin Williams, Macropoxy
  - 2. Tnemec, Series 20 or Series 140 or Hi-build
  - 3. Purple, Pantone 2577U, for recycled; blue or white for potable:
  - 4. Sherwin William, Corothane I HS
- C. Pneumatic Pull-Off Equipment for Test Coating Adhesion to Steel Substrates:
  - 1. Delfesko, PosiTest AT-A
- D. Holiday Testing:
  - 1. Coating Application Plant Testing Equipment: Tinker & Razor, Model APS Holiday Detector
  - 2. Field Testing Equipment: Tinker & Razor Model APS or M/1 Holiday Detector
- E. DFT Tester:
  - 1. Elcometer

## DIVISION 10

*Include the following for a schedule listing the products in this Section. Coordinate with the products in Part 2 – Products.*

### SECTION 10 14 23 – INTERIOR PANEL SIGNS, PART 3

**ADD:**

#### 3.3 SIGN SCHEDULE

Location	Sign Size (inches)	Content
Men's Toilets	[x by x]	"MEN" and accessible symbol
Women's Toilets	[x by x]	"WOMEN" and accessible symbol
Unisex Toilets	[x by x]	"TOILET" and accessible symbol
Room Signs	[x by x]	Room number, room name, and braille symbol
Safety Sign	[x by x]	[Fire extinguisher] [ ]
NFPA Sign	[x by x]	[NFPA four color chlorine symbol]

*Include the following for a schedule listing the products in this Section. Coordinate with the products in Part 2 – Products.*

### SECTION 10 14 60 – EXTERIOR SIGNS, PART 3

**ADD:**

#### 3.2 SIGN SCHEDULE

Count	Sign Size (inches)	Content
[ ]	[x by x]	[Stop sign]
[ ]	[x by x]	[No parking sign]
[ ]	[x by x]	Handicapped accessible parking sign

### SECTION 10 51 00 – LOCKERS, PART 2, SUBPARAGRAPH 2.3

**DELETE:**

A. General: In accordance with the Contract Documents for style, size, and description.

**SUBSTITUTE:**

A. General:

1. Style: [Single] [Double] [Triple] [Four] tier, [one] [two] person, [duplex] [ ].
2. Size: [12-inches by 15-inches] [18-inches by 24-inches] [ ].
3. Description: Unit type, each locker with an individual door and frame, and top, bottom, back, and shelves with common intermediate uprights separating units.

### SECTION 10 51 00 – LOCKERS, PART 2, SUBPARAGRAPH 2.3.C

**DELETE:**

1. Construction 16 gauge steel, formed with a full channel shape on the lock side to fully conceal the lock bar, a channel formation on the hinge side, and a right angle formation across the top and the bottom.
  - a. Single tier doors more than 60-inches in height and 18-inches in width: Provide a diagonal reinforcing angle welded to the inner surface.

**SUBSTITUTE:**

1. Construction 16 gauge steel, formed with a full channel shape on the lock side to fully conceal the lock bar, a channel formation on the hinge side, and a right angle formation across the top and the bottom.
  - a. Single tier doors more than [ ]-inches in height and [ ]-inches in width: Provide a diagonal reinforcing angle welded to the inner surface.