

# GRIMM + PARKER

ARCHITECTS

February 9, 2026

**New Combination Harford Academy and Elementary School**  
**ADDENDUM NO. 5**  
**22419**

TO THE CONTRACT DRAWINGS AND SPECIFICATIONS FOR THE REFERENCED PROJECT, DATED JANUARY 12, 2026, AS PREPARED BY GRIMM AND PARKER ARCHITECTS, 11720 BELTSVILLE DRIVE, SUITE 600, CALVERTON, MARYLAND 20705.

This Addendum includes changes and clarifications to the Contract Documents. The information includes the following:

**SPECIFICATION ITEMS:**

ITEM NO. 1: SECTION 00 01 10 – TOC  
00 01 10-3 Division 08 - OPENINGS  
**DELETE** 08 17 00 INTEGRATED DOOR OPENING ASSEMBLIES

00 01 10-3 Division 32 – EXTERIOR IMPROVEMENTS  
**ADD** 32 18 13 SYNTHETIC TURF SURFACING

ITEM NO. 2: SECTION 00 00 20 – INVITATION TO BID  
00 00 20-1  
**REVISE** Last sentence of first paragraph to read:  
“The Board of Education will receive bids until 2:00 pm local time on February 17, 2026, at the *Harford County Public Schools Planning & Construction Department Facilities Training Center at 2209 Conowingo Road, Bel Air, MD 21015.*”

ITEM NO. 3: SECTION 00 10 00 – INSTRUCTIONS TO BIDDERS  
00 10 00-1  
**REVISE** Part 1.1, first sentence to read:  
“Sealed proposals for: New Combination Harford Academy and Elementary School, 1605 Eva Mar Boulevard, Bel Air, MD shall be received at the *Harford County Public Schools Planning & Construction Department Facilities Training Center at 2209 Conowingo Road, Bel Air, MD*, until **2:00 p.m.** local time on **February 17, 2026.**”

ITEM NO. 4: SECTION 00 30 00 – FORM OF PROPOSAL  
00 30 00

**REPLACE** Section 00 30 00 in its entirety.

ITEM NO. 5: SECTION 00 49 00 – CAPITAL EQUIPMENT INFORMATIONAL PRICES

00 49 00

**REPLACE** Section 00 49 00 in its entirety.

ITEM NO. 6: SECTION 00 83 00 – CONTRACT PACKAGES

00 83 00-26

**ADD**

Paragraph 3.02.B.61 to read:

“61. 2A Contractor to include an allowance in the amount of \$500,000 for the Offsite Roadway Improvements; reference Note 26 on Sheet C001 and Addendum #5 Question No. 172. Allowance to be included as a separate line item in SOV.”

00 83 00-30

**REVISE**

First Sentence of Paragraph 3.03.B.16. to read:

“Contractor shall furnish, install, and remove site construction entrances.”

00 83 00-39

**ADD**

Paragraph 3.05.B.35. to read:

“5A contractor to furnish elevator hoist beam and hoist beam bearing plates to 4A contractor for installation. In accordance with recent DLLR requirements, 5A Contractor shall furnish W8x21 Safety Beam and associated bearing plates, similar to Hoist Beam. 4A Contractor shall install Safety Beam. Location to be coordinated with 6A Contractor.”

00 83 00-42

**ADD**

Sentence to Paragraph 3.06.B.24. to read:

“In accordance with recent DLLR requirements, 5A Contractor shall furnish W8x21 Safety Beam and associated bearing plates, similar to Hoist Beam. 4A Contractor shall install Safety Beam. Location to be coordinated with 6A Contractor.”

00 83 00-44

**DELETE**

Reference to 01 50 00 Temporary Facilities and Controls from list of specification sections in Paragraph 3.07.A.

00 83 00-44

**DELETE**

Reference to 08 11 16 Aluminum Flush Doors from list of specification sections in Paragraph 3.07.A.

.

00 83 00-44

**DELETE**

Reference to 08 17 00 Integrated Door Opening Assemblies from list of specification sections in Paragraph 3.07A.

00 83 00-44

**REVISE**

Reference 11 66 23 Gymnasium Curtains to 11 66 23 Gymnasium Equipment in list of specification sections in Paragraph 3.07.A.

00 83 00-50

**DELETE**

Reference to 07 72 73 Membrane Leak Detection and Testing from list of specification sections in Paragraph 3.08.A.

00 83 00-53

**ADD**

Reference to 08 11 16 Aluminum Flush Doors to list of specification sections in Paragraph 3.09.A.

00 83 00-65

**REVISE**

Paragraph 3.14.B.1. to read:

1. "Provide finish carpentry and interior architectural woodwork, including, but not limited to, wood and solid surface sills/caps, plastic laminate (PLAM), countertops, grommets, backsplashes, brackets, accessories, lockers, hardware, shelving (utility, closet, stackable, adjustable, etc.), casework, trim, millwork, **ballet barres**, veneered plywood, and related for complete systems."

00 83 00-67

**REVISE**

All references from 2B to 2A in Paragraph 3.15.B.4.

00 83 00-83

**REVISE**

Scope callout at "5/8" Exterior Gypsum Sheathing" from "7A" to "9A" in Sketch I. CMSK009.

00 83 00-86

**REVISE**

Scope callout at "Stainless Steel Receiver and Counterflashing" from "4A" to "7A Furnish/4A Install" in Sketch L. (CMSK012) to coincide with 4A scope language.

00 83 00-92

**REVISE**

Scope callout at "Stainless Steel Receiver and Counterflashing" from "4A" to "7A Furnish/4A Install" to coincide with 4A scope language.

ITEM NO. 7:

SECTION 01 23 00 – ADD ALTERNATES

01 23 00-2

**REVISE**

Paragraph 1.4.E.2 to read:

- "a. Alternate No. 5: Provide fall protection using a Safety U-bar Tie-Off System and free standing, non-penetrating modular railing system on main building roof and penthouse roofs as indicated on sheet A105,

A440, structural drawings, and specification sections 07 72 69 and 07 72 00.

- b. Alternate No. 5A: Provide fall protection using a Safety U-bar Tie-Off System and free standing, non-penetrating modular railing system on main building roof and penthouse roofs as indicated on sheet A105, A440, structural drawings, and the specifications. And provide fall protection using a Safety U-bar Tie-Off System on roof of Alternate Bid No. 1; see Sheet A105, A440, structural drawings, and specification Section 07 72 69 and 07 72 00."

ITEM NO. 8: SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

06 40 23-9

**DELETE**

Paragraph 2.8.F in its entirety.

ITEM NO. 9: SECTION 07 41 13.16 - STANDING-SEAM METAL ROOF PANELS

07 41 13.16-4

**REVISE**

Paragraph 2.3.C.3.b to read:

"b. Gutter Supports:

1. Brackets and straps sized per SMACNA Table 1-B.
2. At shade structures 1 through 4: Heavy duty aluminum brackets with angled fascia support; heavy duty brackets by Prater Brackets or equal. Provide as directed by manufacturer no greater than 24 inches o.c."

07 41 13.16-6

**REVISE**

Paragraph 3.1.D.1.a. to read (delete existing sub-subparagraphs):

"b. Gutter Supports: 24 inches o.c. maximum, unless manufacturer requires reduced spacing."

ITEM NO. 10: SECTION 07 71 00 - ROOF SPECIALTIES

07 71 00-1

**REVISE**

Paragraph 1.1.A to read:

- A. Manufactured roof specialties, including prefabricated copings and fascias; and custom fabricated ledge cap flashing as indicated by Detail E6/A430 and similar with sprung galvanized plate and cleat.

07 71 00-3

**ADD**

Paragraph 2.1.C to read:

- C. Custom Fabricated Ledge Cap Flashing as Indicated by Detail E6/A430 and Similar: Assembly of same material and finish requirements as coping, constructed with 0.063 aluminum covers.

ITEM NO. 11: SECTION 07 71 23 - MANUFACTURED GUTTERS AND DOWNSPOUTS

07 71 23-2

**REVISE**

Subparagraph 2.5.B.5 to read:

5. Connect to storm drain fitting with custom downspout section with cleanout provisions, per manufacturer's design. Cleanout access must be vandal/tamper resistant design.

ITEM NO. 12: SECTION 08 17 00 - INTEGRATED DOOR OPENING ASSEMBLIES

**DELETE**

This section in its entirety.

ITEM NO. 13: SECTION 08 71 00 – DOOR HARDWARE

**REPLACE**

This section in its entirety.

ITEM NO. 14: SECTION 09 51 00 - ACOUSTICAL CEILINGS

09 51 00-5

**DELETE**

Paragraph 3.5.B in its entirety; it is repetitive.

09 51 00-5

**REVISE**

Paragraph 3.6.A to read (subparagraphs remain unchanged):

- A. Acoustical Panels Type APC-3: Conforming to the following

ITEM NO. 15: SECTION 10 00 05 - MISCELLANEOUS SPECIALTIES

10 00 05-1

**ADD**

Subparagraph 1.1.D.6 to read:

6. Ballet barres.

10 00 05-3

**ADD**

Subsection 2.6 to read:

2.6 BALLETS BARRES

- A. Basis-of-Design: Metro Double Wall Mount Ballet Barre Brackets.
- B. Description:
  1. Bracket: Steel 3/16-inch heavy gauge welded construction.
  2. Barre: 1-3/4-inch Poplar sanded.
  3. Finish: Powder; color to be selected by Architect from manufacturer's available colors.
  4. Bracket Spacing: Maximum 48 inches; solid attachment to wall framing.
  5. Provide gasket between bracket and mirror.
  6. Architect to review mounting height prior to install.

ITEM NO. 16: SECTION 11 66 23 - GYMNASIUM EQUIPMENT

11 66 23-3

**REVISE**

Subparagraphs 2.3.A.1 and 2.3.A.2 to read:

1. Main Court: Performance Sports #3103 Clear-Vu backstop, ceiling suspended, rear-braced forward folding with #1171 electrically operated height adjuster.
  - a. Backstop Finish: Powder coat White.
2. Side Courts: Performance Sports #3107 Clear-Vu backstop, ceiling suspended, front-braced forward folding with #1171 electrically operated height adjuster.
  - a. Backstop Finish: Powder coat White.

ITEM NO. 17: SECTION 11 66 43 - BASKETBALL SCOREBOARDS

11 66 43-3

**ADD**

Paragraph 2.2.H to read:

- H. Quantity: 3.

ITEM NO. 18: SECTION 11 66 47 - BASKETBALL SHOT TIMER SCOREBOARD

11 66 47-2

**REVISE**

Subparagraph 2.1.A.1 to read:

1. Quantity: One mounted to each main court basketball backstop within Elementary School Gymnasium.

ITEM NO. 19: SECTION 11 66 53 - GYMNASIUM DIVIDERS

11 66 53-3

**REVISE**

Paragraph 2.2.E to read (delete subparagraphs 2.2.E.1 through 4):

- E. Control System: Operated by Performance Sports #TSC1500 electronic control panel (Basis-of-Design) and remote keypad, as provided under Section 11 66 23.

ITEM NO. 20: SECTION 12 35 50 - EDUCATIONAL CASEWORK

**REPLACE**

Section in its entirety with revised section attached to this Addendum; section formatting issues corrected and technical changes are signified by track changes.

ITEM NO. 21: SECTION 12 66 00 - TELESCOPING STANDS

**REPLACE**

Section in its entirety with revised section attached to this Addendum.

ITEM NO. 22: SECTION 13 34 13 - GREENHOUSE AND GREENHOUSE RELATED EQUIPMENT  
13 34 13-3

**REVISE**

Paragraph 2.3.J to read:

- J. Glazing Members: Provide extruded aluminum glazing bars held in place with stainless self-tapping screws. Place extruded aluminum glazing bars in the roof of sufficient size and mechanical properties to carry design loads specified. Bars shall be spaced to properly receive polycarbonate glazing. Bars must extend in one piece from gutter to ridge (on slopes without roof vents) and shall be supported by purlins. Extruded aluminum glazing bars of sufficient size and section modulus to carry design loads specified shall be placed in gables, extending from the wall sill to gable rafter. Provide camber on both top and bottom of bar for fastening purposes.

ITEM NO. 23: SECTION 22 40 00 - PLUMBING FIXTURES

22 40 00-8 Part 2, 2.6 A.

**REVISE**

“Shower, **SH-2**” to “Shower, **SH-1**”

ITEM NO. 24: SECTION 27 05 28 TELECOMMUNICATIONS PATHWAYS AND SPACES

27 05 28-5 Part 2.1.F.1:

**REPLACE**

“APC NET9RMBLK – 9 outlet 120V” with “APC AP9567 PDU, 15a, 100/120v, 14 NEMA 5-15 outlets – 2 per rack”

27 05 28-5 Part 2.1.G:

**REPLACE**

2. “one” with “two”

**REPLACE**

4. “4-15A” with “6-15A”

**ADD**

8. Model number SMTL2200RM2UCNC.

ITEM NO. 25: SECTION 27 12 50 STRUCTURED CABLING FOR TELECOMMUNICATIONS

27 12 50-6 Part 2.1.A.2:

**REPLACE**

a. “standard 8-position, RJ-45 style, un-keyed, FCC-compliant receptacle” with “keystone jack, unloaded”

**REPLACE**

d. “4-pair, 100 ohm balanced unshielded twisted pair (UTP) cable” with “keystone jack termination”

**DELETE**

e., f., i., j., k. Complete line items.

**ADD**

m. “HPJ48” model number after “6A”

27 12 50-6 Part 2.1.A.4:

**DELETE**

Complete line item.

ITEM NO. 26: SECTION 28 20 00 VIDEO SURVEILLANCE SYSTEM

28 20 00-2 <b>DELETE</b>	Part 1.4.B.2: Complete line item as this is provided by Division 27
28 20 00-4 <b>ADD</b>	Part 2.1.D.3: “terminated in biscuit box above ceiling.” to end of sentence after gray jacks.
28 20 00-4 <b>DELETE</b>	Part 2.1.D.4: Complete line item as this is provided by Division 27
28 20 00-4 <b>ADD</b>	Part 2.1.E.1: 48 port keystone patch panels.
28 20 00-4 <b>DELETE</b>	Part 2.1.E.2: Complete line item as this is provided by Division 27
ITEM NO. 27:	<u>SECTION 31 20 00 - EARTH MOVING</u>
31 20 00-2 <b>DELETE</b>	PART 1.1.B.1                      Related Requirements Subparagraph 1: Section 01 22 20 “Site-Civil Unit Prices” for unit prices affecting changes in Site Work.
31 20 00-2 <b>DELETE</b>	PART 1.3.A.3                      EXCAVATION CLASSIFICATION Subparagraph 3: Refer to Section 01 22 20 “Unit Prices” for undercutting, excavation, disposal, and replacement of Rock and/or Unsatisfactory Soil materials <u>below subgrades</u> .
31 20 00-13 <b>DELETE</b>	3.4                                      EXCAVATION, GENERAL Subparagraph A.4: Refer to Section 01 12 20 “Allowances” for additional information and applicable requirements.
<b>DELETE</b>	Subparagraph A.5: Refer to Section 01 22 20 “Site-Civil Unit Prices” for additional information and applicable requirements.
ITEM NO. 28:	<u>SECTION 32 12 16 - ASPHALT PAVING</u>
32 12 16-1 <b>DELETE</b>	PART 1.1.B.2                      Related Requirements Subparagraph 2: Section 01 22 20 “Site-Civil Unit Prices” for asphalt paving related unit prices.
ITEM NO. 29:	<u>SECTION 32 18 13 - SYNTHETIC TURF SURFACING</u>
<b>ADD</b>	Section 32 18 13                      SYNTHETIC TURF SURFACING in its entirety.
ITEM NO. 30:	<u>SECTION 32 18 16.13 -PLAYGROUND PROTECTIVE SURFACING</u>
<b>32 18 16.13-3 REVISE</b>	Part 1.1.2 to read: 2. Protective Surfacing Warranty Period: Ten (10) years from date of Substantial Completion, predicated upon recommended routine



maintenance and "topping off" of protective surfacing performed by Owner."

ITEM NO. 31: SECTION 32 31 13 - CHAIN LINK FENCES, GATES AND BACKSTOPS

32 31 13-1 PART 1.2.A.4 SUMMARY

**ADD** 4. Grounding for fences and gates.  
PART 1.4.B.1.g ACTION SUBMITTALS

**ADD** 4. Grounding components for fences and gates.  
PART 2.1.E BASIS OF DESIGN

**ADD** E. Fence Grounding System: Maximum resistance-to-ground value of 25 ohms at each grounding location along fence under normal dry conditions.

**ADD** PART 2.9 GROUNDING MATERIALS  
Paragraphs A, B, and C.

- A. Comply with requirements in Section 26 05 26 "Grounding and Bonding for Electrical Systems".
- B. Connectors and Grounding Rods: Listed and labeled for complying with UL 467.
  - 1. Connectors for Below-Grade Use: Exothermic welded type.
- C. Grounding Rods: Copper-clad steel, 5/8-inch (5/8") by ninety-six inches (96").

**ADD** Article 3.5 GROUNDING

- A. Comply with requirements in Section 26 05 26 "Grounding and Bonding for Electrical Systems."
- B. Fence and Gate Grounding:
  - 1. Ground for fence and fence posts shall be a separate system from ground for gate and gate posts.
  - 2. Install ground rods and connections as indicated on the Drawings.
  - 3. Ground fence on each side of gates and other fence openings as indicated on the Drawings.
  - 4. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is **6-inches (6")** below finished grade.
    - a. Connect rod to fence with No. 6 AWG conductor.
    - b. Connect conductor to each fence component at grounding location.
- C. Connections:
  - 1] Make connections with clean, bare metal at points of contact.
  - 2. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
  - 3. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
  - 4. Make above-grade ground connections with mechanical fasteners.
  - 5. Make below-grade ground connections with exothermic welds.
  - 6. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

**DRAWING ITEMS:      CIVIL**

ITEM NO. C1:	<u>SHEET C001</u>	<u>GENERAL NOTES</u>
<b>ADD</b>	Sheets C155, C206A, C405, C415, C541-C545, C603, & C653-C672 to the Civil & LA Sheet List	
<b>REVISE</b>	Sheet numbers for the SWM Landscape Plans and SWM Landscape Notes, Details, & Schedule sheets in the Civil & LA Sheet List	
<b>REVISE</b>	Sheet names for sheets C600 – C603 in the Civil & LA Sheet List	
ITEM NO. C2:	<u>SHEET C100</u>	<u>EXISTING CONDITIONS &amp; DEMOLITION CONTEXT PLAN</u>
<b>REVISE</b>	Prior Mill & Overlay to Full Depth Removal	
ITEM NO. C3:	<u>SHEET C102</u>	<u>EXISTING CONDITIONS &amp; DEMOLITION PLAN</u>
<b>ADD</b>	Pavement removal for utility trenching per pre-bid RFI #93	
ITEM NO. C4:	<u>SHEET C103</u>	<u>EXISTING CONDITIONS &amp; DEMOLITION PLAN</u>
<b>REVISE</b>	C&G Demolition notes to clarify existing curb to be removed and existing to remain.	
ITEM NO. C5:	<u>SHEET C104</u>	<u>EXISTING CONDITIONS &amp; DEMOLITION PLAN</u>
<b>REVISE</b>	Pavement removal from mill & overlay to full depth removal per pre-bid RFI #82.	
<b>REVISE</b>	Demolition Note D-18 per pre-bid RFI #96.	
<b>REVISE</b>	C&G Demolition notes to clarify existing curb to be removed and existing to remain.	
ITEM NO. C6:	<u>SHEET C111</u>	<u>SITE GEOMETRY PLAN</u>
<b>REVISE</b>	Sidewalk limits along drop-off and entrances as indicated.	
ITEM NO. C7:	<u>SHEET C112</u>	<u>SITE GEOMETRY PLAN</u>
<b>ADD</b>	Construction notes C-1 & C-2, and associated plan callouts.	
<b>ADD</b>	Dimension from wall to bollard.	
<b>ADD</b>	Labyrinth dimensions.	
ITEM NO. C8:	<u>SHEET C113</u>	<u>SITE GEOMETRY PLAN</u>
<b>REVISE</b>	Sidewalk limits along drop-off and entrances as indicated.	
ITEM NO. C9:	<u>SHEET C115</u>	<u>SITE GEOMETRY COURTYARD ENLARGEMENTS</u>
<b>REVISE</b>	Limit of tinted concrete under shade structure in Detail 3.	

ITEM NO. C10: SHEET C116 SITE GEOMETRY POINT TABLES

**REVISE** Geometry points as indicated.

ITEM NO. C11: SHEET C120 DETAIL REFERENCE CONTEXT PLAN

**REVISE** General Changes on Context Plan referenced. See Enlargements for Details.

ITEM NO. C12: SHEET C121 DETAIL REFERENCE PLAN

**REVISE** Bench types as indicated.

**ADD** Mountable curb and plan references for maintenance accesses.

**REVISE** Asphalt walk from Detail 8/C201 to Detail 7/C201

ITEM NO. C13: SHEET C122 DETAIL REFERENCE PLAN

**REVISE** Bench types as indicated.

**REMOVE** Concrete bench pads in playgrounds.

**ADD** Asphalt walk pavement replacement for utility trenching per pre-bid RFI #93 and associated detail 8 / C201 plan references.

**ADD** Mountable curb and plan references for maintenance access.

**ADD** Construction Note C-23 and plan references.

ITEM NO. C14: SHEET C123 DETAIL REFERENCE PLAN

**ADD** Mountable curb and plan references for maintenance access.

**REMOVE** Truncated domes from ADA ramps adjacent to access aisles.

**REVISE** ADA ramp detail reference.

ITEM NO. C15: SHEET C124 DETAIL REFERENCE PLAN

**REVISE** Bench types as indicated.

**REMOVE** Concrete bench pads in playgrounds.

**ADD** Mountable curb and plan references for maintenance access.

**REVISE** Limits of guardrail near mountable curb.

**REVISE** Maintenance fence location at early learning play area.

**REMOVE** Truncated domes from ADA ramp adjacent to access aisle.

**REVISE** ADA ramp detail reference.

ITEM NO. C16: SHEET C125 DETAIL REFERENCE COURTYARD ENLARGEMENTS

**REVISE** Bench types as indicated.

**REMOVE** Concrete bench pads in playgrounds.

**REVISE** Limit of tinted concrete under shade structure in Detail 3.

**ADD** Playground layout note.

ITEM NO. C17: SHEET C140 UTILITY CONTEXT PLAN

**ADD** General Note 2 and general context plan revisions. See enlargements for details.

ITEM NO. C18: SHEET C141 UTILITY PLAN

**REVISE** Pipe size from M-222 to M-221 from 18" to 24" and associated steel casing pipe from 24" to 30."

**REVISE** Size of riprap at E-701

**REVISE** Alignment of 18" pipe downstream of M-603

ITEM NO. C19: SHEET C142 UTILITY PLAN

**REVISE** Utility modifications and outfall modifications as indicated.

**ADD** Utility modifications and outfall modifications as indicated.

ITEM NO. C20: SHEET C143 UTILITY PLAN

**REVISE** Utility modifications as indicated to address County W&S and SWM comments. Relocate SD alignment to address CM comments.

**ADD** Utility additions as indicated to address County W&S and SWM comments.

ITEM NO. C21: SHEET C144 UTILITY PLAN

**REVISE** Utility modifications as indicated to address County W&S and SWM comments. Relocate SD alignment to address CM comments.

**ADD** Utility additions as indicated to address County W&S and SWM comments.

ITEM NO. C22: SHEET C150 GRADING CONTEXT PLAN

**REVISE** General grading to address County comments. See enlargements for details.

ITEM NO. C23: SHEET C151 GRADING PLAN

**REVISE** Grading as indicated to address County SWM comments.

**REVISE** Grading details for sidewalk changes.

ITEM NO. C24: SHEET C152 GRADING PLAN

**ADD** Proposed grading as indicated.

**ADD** Grading details for County required level spreaders.

ITEM NO. C25: SHEET C153 GRADING PLAN

**REVISE** Proposed grading as indicated.

ITEM NO. C26: SHEET C154 GRADING PLAN

**REVISE** Proposed grading as indicated.

ITEM NO. C27: SHEET C155 GRADING PLAN

**ADD** New Sheet to show grading by existing trailer.

ITEM NO. C28: SHEET C201 SITE DETAILS

**REVISE** Detail 4 and 5 to clarify contraction joints as indicated.

**REVISE** Detail 9 to clarify acrylic surface coating.

**REVISE** Detail 11 to clarify stone outfall at curb openings.  
**REPLACE** Detail 12 with revised Detail 12 included in this Addendum.  
Note that benches installed within playground safety surfacing shall be in-ground mounted.

ITEM NO. C29: SHEET C202 SITE DETAILS

**REVISE** Detail 1 to clarify isolation joints as indicated.

ITEM NO. C30: SHEET C203 SITE DETAILS

**REVISE** Detail 1 to include playground safety surface condition adjacent to lawn.

**REVISE** Detail 2 to indicate 1/8" per 1' wash on top of wall.

**REPLACE** Detail 3 with revised Detail 3 for playground wall.

**ADD** Detail 5 for mountable curb and gutter.

ITEM NO. C31: SHEET C204 SITE DETAILS

**REVISE** Detail 1 as noted to clarify dimensions and show concrete mow strip.

**REVISE** Detail 1 notes as indicated.

**REVISE** Detail 1 Double Swing Gate drop bar callout to be installed in concrete, not ground.

**REVISE** Detail 2 to clarify hardware.

**REVISE** Detail 3 to clarify trench drain grate loading, concrete broom finish, isolation joint, and to remove trench drain size (note that trench drain sizes are indicated on the storm drain profiles).

**REVISE** Detail 4 to include grounding and clarify space under the chain link fabric.

**REVISE** Detail 5 to indicate mow strip in condition where artificial turf is adjacent to the building.

**REVISE** Detail 5 to indicate 1/8" per 1' wash on top of wall.

ITEM NO. C32: SHEET C206 SITE DETAILS

**REVISE** Construction 60' Baseball Diamond Detail to remove sod provide a skinned infield and indicate soil depth in skinned area.

**REVISE** Detail Wing & Dougout Chain Link Fence to indicate mow strip, grounding & footing details.

**REVISE** Typical Backstop Layout D Style Backstops Shown with 60 Ft Field Detail to indicate concrete paving behind backstop.

**REVISE** F-5, 8' Chain Link Fence Detail to indicate mow strip & footing details.

**REVISE** Mowing Table Baseball Backstop Detail to indicate mow strip detail; note that width, depth, and joints shall be installed per the indicated detail, layout shall be installed per Typical Plan shown on this detail.

ITEM NO. C33: SHEET C206A SITE DETAILS

**ADD** This sheet in its entirety.

ITEM NO. C34: SHEET C207 SITE DETAILS

**REVISE** Detail 1 dimension to clarify footing size.

**REVISE** Detail 6 as indicated to clarify nosing extents on stair risers.

ITEM NO. C35: SHEET C301 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C36: SHEET C302 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C37: SHEET C303 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C38: SHEET C304 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C39: SHEET C305 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C40: SHEET C306 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C41: SHEET C307 STORM DRAIN PROFILES  
**REVISE** Profiles as indicated.

ITEM NO. C42: SHEET C308 STORM DRAIN STRUCTURE TABLES  
**REVISE** Structure tables as indicated.

ITEM NO. C43: SHEET C309 STORM DRAIN STRUCTURE TABLES  
**REVISE** Structure table as indicated.  
**REVISE** Profile as indicated.  
**ADD** Profile as indicated.

ITEM NO. C44: SHEET C311 SANITARY PROFILES  
**REVISE** Profile as indicated.

ITEM NO. C45: SHEET C321 WATER PROFILES  
**REVISE** Profile as indicated.

ITEM NO. C46: SHEET C322 WATER PROFILES  
**REVISE** Profile as indicated.

ITEM NO. C47: SHEET C400 EXISTING EROSION & SEDIMENT CONTROL CONTEXT PLAN  
**REVISE** General ESC as indicated. See enlargements for details.

ITEM NO. C48: SHEET C401 EXISTING EROSION & SEDIMENT CONTROL PLAN  
**REVISE** Diversion fence.

ITEM NO. C49: SHEET C402 EXISTING EROSION & SEDIMENT CONTROL PLAN  
**REVISE** Diversion and same day stabilization as indicated.  
**ADD** ESC measures for removal of existing building.

ITEM NO. C50: SHEET C403 EXISTING EROSION & SEDIMENT CONTROL PLAN  
**REVISE** To accommodate County comments as indicated.

ITEM NO. C51: SHEET C404 EXISTING EROSION & SEDIMENT CONTROL PLAN  
**REVISE** To accommodate County comments as indicated.

ITEM NO. C52: SHEET C405 EXISTING EROSION & SEDIMENT CONTROL PLAN  
**ADD** New sheet in its entirety.

ITEM NO. C53: SHEET C410 PROPOSED EROSION & SEDIMENT CONTROL CONTEXT PLAN  
**REVISE** General ESC as indicated. See enlargements for details.

ITEM NO. C54: SHEET C411 PROPOSED EROSION & SEDIMENT CONTROL PLAN  
**REVISE** Diversion fence.

ITEM NO. C55: SHEET C412 PROPOSED EROSION & SEDIMENT CONTROL PLAN  
**REVISE** To accommodate County comments as indicated.

ITEM NO. C56: SHEET C413 PROPOSED EROSION & SEDIMENT CONTROL PLAN  
**REVISE** To accommodate County comments as indicated.

ITEM NO. C57: SHEET C414 PROPOSED EROSION & SEDIMENT CONTROL PLAN  
**REVISE** To accommodate County comments as indicated.

ITEM NO. C58: SHEET C415 PROPOSED EROSION & SEDIMENT CONTROL PLAN  
**ADD** New sheet in its entirety.

ITEM NO. C59: SHEET C431 PROPOSED EROSION & SEDIMENT CONTROL PROFILES  
**REVISE** Temp profile as indicated.

ITEM NO. C60: SHEET C500 STORMWATER MANAGEMENT CONTEXT PLAN  
**REVISE** To address County comments as indicated.

ITEM NO. C61: SHEET C501 STORMWATER MANAGEMENT PLAN  
**REVISE** Grading and outfall as shown to address County comments.

ITEM NO. C62: SHEET C502 STORMWATER MANAGEMENT PLAN  
**REVISE** Grading and outfall as shown to address County comments.

ITEM NO. C63: SHEET C503 STORMWATER MANAGEMENT PLAN  
**REVISE** Grading as shown to address County comments.

ITEM NO. C64: SHEET C504 STORMWATER MANAGEMENT PLAN  
**REVISE** Grading as shown to address County comments.

ITEM NO. C65: SHEET C511 SWM DETAILS & NOTES  
**ADD** Level Spreader detail.  
**ADD** General note #2.

ITEM NO. C66: SHEET C521 SWM SECTIONS  
**REVISE** Invert as indicated.

ITEM NO. C67: SHEET C522 SWM SECTIONS  
**REVISE** Invert as indicated.

ITEM NO. C68: SHEET C528 SWM SECTIONS  
**REVISE** Invert as indicated.

ITEM NO. C69: SHEET C529 SWM SECTIONS  
**REVISE** Grading, utility and facility to address County comments.

ITEM NO. C70: SHEET C530 SWM SECTIONS  
**ADD** New sheet in its entirety.

ITEM NO. C71: SHEET C531 SWM SECTIONS  
**REVISE** Sheet in its entirety.

ITEM NO. C72: SHEETS C541 AS-BUILT TABLES  
**ADD** This sheet in its entirety.

ITEM NO. C73: SHEETS C542 AS-BUILT TABLES  
**ADD** This sheet in its entirety.

ITEM NO. C74: SHEETS C543 AS-BUILT TABLES  
**ADD** This sheet in its entirety.

ITEM NO. C75: SHEETS C544 AS BUILT TABLES  
**ADD** This sheet in its entirety.

ITEM NO. C76: SHEETS C545 AS-BUILT TABLES  
**ADD** This sheet in its entirety.

ITEM NO. C77: SHEET C551 SWM LANDSCAPE PLAN  
**REVISE** Sheet number from C541 to C551



- ITEM NO. C78: SHEET C552 SWM LANDSCAPE PLAN  
**REVISE** Sheet number from C542 to C552
- ITEM NO. C79: SHEET C553 SWM LANDSCAPE PLAN  
**REVISE** Sheet number from C543 to C553
- ITEM NO. C80: SHEET C554 SWM LANDSCAPE PLAN  
**REVISE** Sheet number from C544 to C554
- ITEM NO. C81: SHEET C555 SWM LANDSCAPE NOTES, DETAILS, & SCHEDULE  
**REVISE** Sheet number from C545 to C555
- ITEM NO. C82: SHEET C600 CSA NO. 20372 PUBLIC WATER & SEWER PLANS  
**REPLACE** The prior public water and sewer plan in its entirety.
- ITEM NO. C83: SHEET C601 CSA NO. 20372 PUBLIC WATER & SEWER PLANS  
**REPLACE** The prior public water and sewer plan in its entirety.
- ITEM NO. C84: SHEET C602 CSA NO. 20372 PUBLIC WATER & SEWER PLANS  
**REPLACE** The prior public water and sewer plan in its entirety.
- ITEM NO. C85: SHEET C603 CSA NO. 20372 PUBLIC WATER & SEWER PLANS  
**REPLACE** The prior public water and sewer plan in its entirety.

#### **DRAWING ITEMS: LANDSCAPING**

- ITEM NO. L1: SHEET L103 LANDSCAPE PLAN  
**REVISE** Foundation plantings as indicated.
- ITEM NO. L2: SHEET L104 LANDSCAPE PLAN  
**REVISE** Foundation plantings as indicated.
- ITEM NO. L3: SHEET L201 LANDSCAPE NOTES & DETAILS  
**ADD** Boulder Installation Detail  
**REVISE** Plant schedule as indicated.
- ITEM NO. L4: SHEET L301 PLAYGROUND PLANS  
**ADD** Notes as indicated.
- ITEM NO. L5: SHEET L302 PLAYGROUND PLANS  
**ADD** Notes as indicated.

ITEM NO. L6:	<u>SHEETS L500</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L7:	<u>SHEETS L501</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L8:	<u>SHEETS L502</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L9:	<u>SHEETS L503</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L10:	<u>SHEETS L504</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L11:	<u>SHEETS L505</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	
ITEM NO. L12:	<u>SHEETS L506</u>	<u>FOREST CONSERVATION PLANS</u>
<b>REPLACE</b>	Black and white sheet with approved color version.	

**DRAWING ITEMS:      ARCHITECTURAL**

ITEM NO. A1:	<u>SHEET A001</u>	<u>CODE STUDY – FIRST FLOOR</u>
<b>REVISE</b>	Door and wall location in Area B	
ITEM NO. A2:	<u>SHEET A006</u>	<u>ARCHITECTURAL SITE PLAN</u>
<b>REVISE</b>	Enlarged paving scoring patterns.	
<b>ADD</b>	Paving scoring patterns.	
<b>REVISE</b>	Dimension of guardrail at loading.	
ITEM NO. A3:	<u>SHEET A101B</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA B</u>
<b>REVISE</b>	Placement of Door C16 and wall in corridor C16.	
ITEM NO. A4:	<u>SHEET A101G</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA G</u>
<b>ADD</b>	2 CMU column enclosures in corridor C26.	

ITEM NO. A5:	<u>SHEET A105</u>	<u>ROOF PLAN</u>
<b>ADD</b>	Alternate plan K15 – Roof Fall Protection Anchor Location Diagram – Alt	
<b>ADD</b>	Detail references at Area A Entry Canopy Roof edges.	
<b>REVISE</b>	Detail reference at area A 2 <sup>nd</sup> level & PH level roof.	
<b>REVISE</b>	Slope arrows to match Structural in Area F & G.	
<b>ADD</b>	Roof door sill detail at Penthouse 05.	
<b>ADD</b>	BOD elevations at area C, D, & E Penthouses.	
<b>ADD</b>	BOD elevations in area C.	
<b>ADD</b>	Detail reference H14/A442 in area D, E, & A/G Courtyards.	
ITEM NO. A6:	<u>SHEET A212</u>	<u>SITE WALLS &amp; SPECIAL SHAPES</u>
<b>ADD</b>	Note to detail E18.	
ITEM NO. A7:	<u>SHEET A213</u>	<u>MOCK-UP PANEL</u>
<b>ADD</b>	References for plan details on A18.	
<b>ADD</b>	Enlarged plan G8 showing scoring patterns for central courtyard.	
ITEM NO. A8:	<u>SHEET A303</u>	<u>FINISH SCHEDULE</u>
<b>ADD</b>	Revision column to schedule.	
<b>ADD</b>	Note 18 to Typical Notes	
<b>REVISE</b>	Numbered remark 7	
<b>REVISE</b>	Finishes on rooms designated in revision column of schedule	
ITEM NO. A9:	<u>SHEET A304</u>	<u>DOOR SCHEDULE</u>
<b>REVISE</b>	Revision column to reflect changes to door information.	
<b>REVISE</b>	Remark note 19.	
ITEM NO. A10:	<u>SHEET A305</u>	<u>DOOR SCHEDULE</u>
<b>REVISE</b>	Revision column to reflect changes to door information.	
<b>REVISE</b>	Remark note 19.	
ITEM NO. A11:	<u>SHEET A442</u>	<u>ROOF DETAILS – METAL PANEL – SINGLE PLY MEMBRANE</u>
<b>ADD</b>	Detail H14	
ITEM NO. A12:	<u>SHEET A450</u>	<u>BUS DROP OFF CANOPY</u>
<b>ADD</b>	Expansion joint location and detail reference.	
<b>ADD</b>	Electrical conduit routing for light fixtures.	
<b>DELETE</b>	Perforated panel.	
<b>REVISE</b>	Detail name.	
ITEM NO. A13:	<u>SHEET A451</u>	<u>BUS DROP OFF CANOPY DETAILS</u>
<b>REVISE</b>	Detail reference numbers.	
<b>ADD</b>	Area extents of high-performance coating.	
ITEM NO. A14:	<u>SHEET A452</u>	<u>BUS DROP OFF CANOPY DETAILS</u>
<b>REVISE</b>	Reference note for location of areas of high-performance coating.	
<b>REVISE</b>	Detail A10	

<b>DELETE</b>	Perforated panel.
<b>DELETE</b>	Detail of secondary bent plate trim along edge of decks.
<b>ADD</b>	Trim detail for metal panel soffit ceiling.
<b>ADD</b>	Extension of beam at high canopy and electrical conduit cover.
<b>ADD</b>	Detail F5 for lower canopy edge.
<b>ADD</b>	Detail K18 for canopy expansion joint.
ITEM NO. A15:	<u>SHEET A453</u> <u>SHADE STRUCTURE PLANS</u>
<b>REVISE</b>	Sheet in its entirety.
ITEM NO. A16:	<u>SHEET A454</u> <u>SHADE STRUCTURE DETAILS</u>
<b>REVISE</b>	Sheet in its entirety.
ITEM NO. A17:	<u>SHEET A520</u> <u>ENLARGED STAIR PLANS AND SECTIONS</u>
<b>REVISE</b>	Details A5, A9, E5, F9 to show updated shaftwall assembly.
<b>ADD</b>	Detail K7
ITEM NO. A18:	<u>SHEET A610</u> <u>INTERIOR ELEVATIONS</u>
<b>DELETE</b>	Acoustic panel in detail D12.
<b>REVISE</b>	Casework door elevations in details F13, D12, D5
<b>REVISE</b>	Dimension in details A5, A18, D12
<b>REVISE</b>	View extents of detail H16
ITEM NO. A19:	<u>SHEET A615</u> <u>INTERIOR ELEVATIONS</u>
<b>DELETE</b>	AESS note at two column locations
<b>ADD</b>	2 CMU column enclosures.
<b>REVISE</b>	Accent paint note on detail L16.
ITEM NO. A20:	<u>SHEET A701B</u> <u>PARTIAL FIRST FLOOR RCP – AREA B</u>
<b>REVISE</b>	Placement of wall and ceiling layout in corridors C15 and C16.
<b>DELETE</b>	Detail references along corridor C20.
ITEM NO. A21:	<u>SHEET A802H</u> <u>PARTIAL SECOND FLOOR FURNITURE PLAN – AREA H</u>
<b>ADD</b>	Furniture and display board tags to room C52A.
ITEM NO. A22:	<u>SHEET A900</u> <u>INTERIOR MATERIALS SCHEDULE</u>
<b>REVISE</b>	Decorative film product number.
<b>REVISE</b>	PLAM color and location.
<b>REVISE</b>	APC1 and APC2 style number.
ITEM NO. A23:	<u>SHEET A901G</u> <u>PARTIAL FIRST FLOOR FINISH PLAN – AREA G</u>
<b>REVISE</b>	Accent paint extents at Dining ES door.
<b>ADD</b>	Accent paint at display case outside of Dining ES
<b>REVISE</b>	Accent paint in Corridor C26 to include column enclosures.
<b>REVISE</b>	Accent paint in Dining PDS
ITEM NO. A24:	<u>SHEET A903</u> <u>FIRST FLOOR FLOOR PATTERN PLAN</u>
<b>REVISE</b>	VCT color in rooms 283, 284, 229, 228.

**ADD** Missing room tags.

ITEM NO. A25: SHEET A905 OVERALL FIRST FLOOR RCP – ACCENT COLOR  
**REVISE** Bulkhead at Serving 258A.

**DRAWING ITEMS: FOOD SERVICE**

ITEM NO. K1: SHEET K301 PLUMBING SCHEDULE & DETAILS  
**REVISE** Detail 3

**DRAWING ITEMS: STRUCTURAL**

ITEM NO. S1: SHEET S003 SCHEDULES  
**ADD** Footing size F80A, F90A, and F100A.  
**ADD** C2A type - Anchor bolt sizes for lateral columns.  
**ADD** C3A type - Anchor bolt sizes for lateral columns.  
**ADD** Footing type F60A, F70A, F80A, F90A, and F100A in footing schedule.

ITEM NO. S2: SHEET S101A FOUNDATION AND SLAB ON GRADE PLAN – AREA A  
**ADD** Step footing elevation callout notes along gridline Z between gridline 10.7 and 11.5.  
**ADD** Step footing elevation callout notes along gridline Z between gridline 12 and 12.6.  
**ADD** Wall footing elevation callout notes along gridline Z between gridline 12.8 and 13.7.  
**ADD** Step footing elevation callout notes along gridline Z between gridline 14 and 16.  
**ADD** Step footing elevation at gas enclosure.  
**REVISE** Step footing elevation callout notes along gridline Z between gridline 15' and 16.  
**REVISE** Column footing elevation at gridline Z-15'.  
**REVISE** Column footing elevation at gridline Z-10.  
**REVISE** Column footing elevation at gridline Z-11.5.  
**REVISE** Column footing elevation at gridline Z-12.6.  
**REVISE** Column footing elevation at gridline Z-13.7.  
**REVISE** Column footing elevation at gridline Z-16.  
**REVISE** Column footing sizes at gridline U-16.7, U-15, U-12.8, U-12, and U-11.  
**REVISE** Column footing sizes at gridline V-16.7, V-15, V-12.8, and V-12.

ITEM NO. S3: SHEET S101B FOUNDATION AND SLAB ON GRADE PLAN – AREA B  
**REVISE** Wall footing elevation along gridline 16.9 between gridlines N.2 and P.6.  
**REVISE** Shade structure footing and pier elevations at gridlines SS2-A – SS2-2 and SS2-B – SS2-1.

ITEM NO. S4:	<u>SHEET S101C</u>	<u>FOUNDATION AND SLAB ON GRADE PLAN – AREA C</u>
REVISE	Wall footing elevation along gridline 4* between gridlines A* and A.7*.	
REVISE	Column footing elevation at gridline A*-4*.	
REVISE	Wall footing elevation along gridline A* between gridlines 4* and 2.8*.	
REVISE	Column footing elevation at gridline A*-3*.	
REVISE	Wall footing elevation along gridline A* between gridlines 1.9* and 2.8*.	
REVISE	Column footing elevation at gridline A*-1*.	
REVISE	Wall footing elevation along gridline A* between gridlines 1* and 1.7*.	
ITEM NO. S5:	<u>SHEET S101D</u>	<u>FOUNDATION AND SLAB ON GRADE PLAN – AREA D</u>
REVISE	Wall footing elevation along gridline A* between gridlines 1* and 11.9.	
REVISE	Column footing elevation at gridline A*-11.9 and A-11.8.	
REVISE	Wall footing elevation along gridline A between gridlines 4 and 11.8.	
REVISE	Column footing elevation at gridline A-11.4.	
REVISE	Column footing elevation at gridline A-10.2.	
ADD	Wall step footing between gridlines 10.2 & 11.4 and A & A.8.	
REVISE	Column footing elevation at gridline A-5.3.	
ADD	Wall step footing between gridlines 4 & 5.3 and A & A.8.	
REVISE	Column footing elevation at gridline A-4 and A-3.85.	
REVISE	Wall footing elevation along gridline A between gridlines 4 and 3.	
REVISE	Shade structure footing and pier elevations at gridlines SS1-B - SS1-1 and SS1-A - SS1-2.	
ITEM NO. S6:	<u>SHEET S101E</u>	<u>FOUNDATION AND SLAB ON GRADE PLAN – AREA E</u>
DELETE	Wall step footing along gridline A.1 between gridline 2 and 15.3'.	
REVISE	Wall step footing along gridline B' between gridline 10.2' and 15.3'.	
REVISE	Column footing elevation at gridline B'-14'.	
REVISE	Column footing elevation at gridline B'-12'.	
REVISE	Wall step footing along gridline 12' between gridline B' and C'.	
REVISE	Shade structure footing and pier elevations at gridlines SS4-A – SS4-2 and SS4-B – SS4-1.	
REVISE	Wall footing elevations near gridlines SS4-A and SS4-2.	
ITEM NO. S7:	<u>SHEET S101J</u>	<u>FOUNDATION AND SLAB ON GRADE PLAN – SHADE STRUCTURE</u>
REVISE	Shade structure footing and pier elevations at gridlines SS3-A – SS3-2 and SS3-B – SS3-2.	
ITEM NO. S8:	<u>SHEET S102A</u>	<u>SECOND FLOOR AND MAIN ROOF FRAMING PLAN – AREA A</u>
REVISE	Joists to beams at fall protection locations.	
ADD	Fall protection locations on roof framing plan.	
ITEM NO. S9:	<u>SHEET S102B</u>	<u>PENTHOUSE FLOOR AND MAIN ROOF FRAMING PLAN – AREA B</u>
REVISE	Joists to beams at fall protection locations.	
REVISE	Beam sizes at fall protection locations.	
ADD	Fall protection locations on roof framing plan.	

ITEM NO. S10: SHEET S102C PENTHOUSE FLOOR AND MAIN ROOF FRAMNG PLAN – AREA C  
**REVISE** Joists to beams at fall protection locations.  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S11: SHEET S102D PENTHOUSE FLOOR AND MAIN ROOF FRAMNG PLAN – AREA D  
**REVISE** Joists to beams at fall protection locations.  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S12: SHEET S102E PENTHOUSE FLOOR AND MAIN ROOF FRAMNG PLAN – AREA E  
**REVISE** Joists to beams at fall protection locations.  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.  
**ADD** A beam at fall protection location between gridline 4.9' and 6.7'.

ITEM NO. S13: SHEET S102F MAIN ROOF FRAMNG PLAN – AREA F  
**REVISE** Joists to beams at fall protection locations.  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S14: SHEET S102G MAIN ROOF FRAMNG PLAN – AREA G  
**REVISE** Joists to beams at fall protection locations.  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S15: SHEET S103A PENTHOUSE FLOOR AND ROOF FRAMING PLAN – AREA A  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S16: SHEET S103B PENTHOUSE ROOF FRAMING PLAN – AREA B, C, D, AND E  
**REVISE** Beam sizes at fall protection locations in areas B, C, D, and E.  
**ADD** Fall protection locations on roof framing plan in areas B, C, D, and E.  
**REVISE** Beam sizes along gridlines 12 and 15.3 in area B.

ITEM NO. S17: SHEET S103F ROOF FRAMING PLAN – AREA F  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S18: SHEET S103G ROOF FRAMING PLAN – AREA G  
**REVISE** Beam sizes at fall protection locations.  
**ADD** Fall protection locations on roof framing plan.

ITEM NO. S19: SHEET S103H PENTHOUSE FLOOR AND ROOF FRAMING PLAN – AREA H

**REVISE** Beam sizes at fall protection locations.

**ADD** Fall protection locations on roof framing plan.

ITEM NO. S20: SHEET S104 PENTHOUSE ROOF FRAMING PLAN – AREA A AND H

**REVISE** Beam sizes at fall protection locations.

**ADD** Fall protection locations on roof framing plan.

ITEM NO. S21: SHEET S201 BUS DROP OFF CANOPY FOUNDATION PLANS

**REVISE** Top pier elevation for the downspout at 18.05 – CA, 11.65-CA, and 11.65-CB locations.

**REVISE** Top pier elevation along CA and CB gridlines.

ITEM NO. S22: SHEET S202 BUS DROP OFF CANOPY FRAMING PLANS

**DELETE** Note 3 for roof opening.

**REVISE** Note 1 for galvanized coating and deck thickness.

**REVISE** Note 5 for holes in HSS member.

ITEM NO. S23: SHEET S303 TYPICAL DETAILS

**ADD** Section M for fall protection anchor details.

ITEM NO. S24: SHEET S510 FRAMING SECTIONS

**REVISE** Section J – dimension and angle size.

ITEM NO. S25: SHEET S511 FRAMING SECTIONS

**REVISE** Section A, E, and K for conduit openings.

#### **DRAWING ITEMS:      MECHANICAL**

ITEM NO. M1: SHEET M101B PART FIRST FLOOR PLAN – DUCTWORK – AREA B

**REVISE** Ductwork routing to accommodate architectural wall changes.

#### **DRAWING ITEMS:      PLUMBING**

ITEM NO. P1: SHEET P002 PLUMBING SCHEDULES

**REVISE** Plumbing Fixture Schedule. SH-1 removed, SH-2 designation revised to SH-1.



ITEM NO. P2: SHEET P100A PART FOUNDATION PLAN – PLUMBING – AREA A  
**REVISE** Drawing note at incoming gas to #30.

ITEM NO. P3: SHEET P101B PART FIRST FLOOR PLAN – PLUMBING – AREA B  
**ADD** Size annotation for overflow storm water.

ITEM NO. P4: SHEET P101C PART FIRST FLOOR PLAN – PLUMBING – AREA C  
**ADD** Size annotations for overflow storm water.

ITEM NO. P5: SHEET P101D PART FIRST FLOOR PLAN – PLUMBING – AREA D  
**REVISE** Size annotations for overflow storm water.

ITEM NO. P6: SHEET P101E PART FIRST FLOOR PLAN – PLUMBING – AREA E  
**REVISE** Size annotations for overflow storm water.

ITEM NO. P7: SHEET P204 PART FLOOR PLANS – PLUMBING – AREA F  
**REVISE** Size annotations for overflow storm water.

ITEM NO. P8: SHEET P301 PLUMBING RISER DIAGRAMS – DOMESTIC WATER  
**REVISE** Plumbing fixture tags.

ITEM NO. P9: SHEET P302 PLUMBING RISER DIAGRAMS – DOMESTIC WATER  
**REVISE** Plumbing fixture tags.

ITEM NO. P10: SHEET P303 PLUMBING RISER DIAGRAMS – DOMESTIC WATER  
**REVISE** Plumbing fixture tags.

ITEM NO. P11: SHEET P304 PLUMBING RISER DIAGRAMS – DOMESTIC WATER  
**REVISE** Cold water piping in RM 302 to show wall hydrant.

**DRAWING ITEMS: ELECTRICAL**

ITEM NO. E1: SHEET E001 ELECTRICAL LEGEND, ABBREVIATIONS, & GENERAL NOTES  
**REVISE** Abbreviation list.

ITEM NO. E2: SHEET E002 SITE PLAN - ELECTRICAL  
**REVISE** Location of BGE equipment.

ITEM NO. E3: SHEET E101F PART FIRST FLOOR PLAN – POWER – AREA F  
**REVISE** Gymnasium equipment power connections.

ITEM NO. E4: SHEET E101H PART FIRST FLOOR PLAN – POWER – AREA H  
**REVISE** Gymnasium equipment power connections.  
**ADD** Bleacher power connections.  
**ADD** Shot clock power connections.

ITEM NO. E5: SHEET E302H PART SECOND FLOOR PLAN – FIRE ALARM – AREA H  
**ADD** Heat and smoke detector in top of elevator shaft.

ITEM NO. E6: SHEET E501 ELECTRICAL DETAILS  
**REVISE** Detail 4 and detail 9

ITEM NO. E7: SHEET E701 ELECTRICAL SCHEDULES  
**REVISE** 12-way detail.  
**ADD** Split system detail.

ITEM NO. E8: SHEET E709 PANELBOARD SCHEDULES – ELEC RM F1  
**REVISE** Panel schedule RPF1-2.

ITEM NO. E9: SHEET E710 PANELBOARD SCHEDULES – ELEC RM H1A  
**REVISE** Panel schedules MRPH1A and RPH1A-1.

**DRAWING ITEMS:**      **TECHNOLOGY**

ITEM NO. T1: SHEET T001 TECHNOLOGY GENERAL NOTES  
**ADD** “AV” type outlet to detail 1 Technology Symbols

ITEM NO. T2: SHEET T101F TECHNOLOGY FIRST FLOOR PLAN – AREA F  
**DELETE** “L” and “M” audio inputs from Gym 232 and Platform 239  
**ADD** “AV” outlets to Gym 232, Fitness Lab 240, and Gym 242

ITEM NO. T3: SHEET T101G TECHNOLOGY FIRST FLOOR PLAN – AREA G  
**ADD** “AV” outlets to Dining 256 and Dining 268  
**DELETE** “D” outlet, associated duplex power receptacle to remain but to be mounted at 60”  
**ADD** “V” outlet to Dining 268

ITEM NO. T4: SHEET T101H TECHNOLOGY FIRST FLOOR PLAN – AREA H  
**DELETE** “L” and “M” audio inputs from Platform 277  
**ADD** “AV” outlet to Gym 275  
**ADD** “DD” outlet to Support Staff Office 427

ITEM NO. T5: SHEET T901 TECHNOLOGY FACEPLATE DETAILS  
**REVISE** “V” outlet cable type for Dining 256 & 268

ITEM NO. T6:	<u>SHEET T902</u>	<u>TECHNOLOGY PATHWAY DETAILS</u>
REVISE	"PR" type outlet call out for contractor to provide pull strings.	
ADD	"AV" type outlet pathway.	
ITEM NO. T7:	<u>SHEET T903</u>	<u>TECHNOLOGY ROOM AND RACK DETAILS 1</u>
ADD	Second rack mounted UPS to each rack.	
REVISE	Rack elevations to show vertical PDUs.	
REVISE	All patch panels from Cat 6 / 6A to Keystone style patch panels.	
REVISE	Server stack rack to show space of owner provided PA headend.	
DELETE	CCTV cabinet.	
ADD	Four post rack with vented shelves for owner provided equipment.	
ADD	Anticipated locations of security and access control panels in each telecom room. Final location to be coordinated with owner prior to installation.	
ITEM NO. T8:	<u>SHEET T904</u>	<u>TECHNOLOGY ROOM AND RACK DETAILS 2</u>
ADD	Second rack mounted UPS to each rack.	
REVISE	Rack elevations to show vertical PDUs.	
REVISE	All patch panels from Cat 6 / 6A to Keystone style patch panels.	
ADD	Anticipated locations of security and access control panels in each telecom room. Final location to be coordinated with owner prior to installation.	
ADD	Detail 3 Cable and Jack Color Code and Labeling requirements.	
ITEM NO. T9:	<u>SHEET T905</u>	<u>PUBLIC ADDRESS SYSTEM DETAILS</u>
REVISE	Detail 1, PA system equipment line diagram.	
ADD	Rough-in for owner provided sound cabinets in detail 2.	
REVISE	Detail 2, SP pathway notes for required power coordination for owner provide powered speakers.	
ADD	Note for contractor to provide pull strings in all sound system outlet types for owner use in detail 2.	
ITEM NO. T10:	<u>SHEET T906</u>	<u>ACCESS CONTROL AND INTRUSION DETECTION</u>
ADD	Note 7 detailing required cable slack.	
ADD	Access control system installation responsibilities table.	
ITEM NO. T11:	<u>SHEET T907</u>	<u>CCTV SYSTEM</u>
REVISE	Detail 1 camera rough-in requirements and denote cameras by owner.	
ADD	CCTV camera cable termination detail for device end.	
REVISE	Detail 2 CCTV cabinet to reflect utilizing two post racks for CCTV camera patch panels.	
REVISE	Detail 2 notes 2, 5, & 6	

### **BIDDER'S QUESTIONS:**

**Please see Attachment C for Bidders Questions.**

#### ***Attachments:***

- Attachment A: Specifications
- Attachment B: Drawings
- Attachment C: Bidder Questions

End of Addendum No. 5

\*\*\*\*\*

## ATTACHMENT A

**SECTION 00300 - FORM OF PROPOSAL – PREVAILING WAGE RATE**

Proposal of: \_\_\_\_\_ (firm name)

\_\_\_\_\_

Bid Package No. \_\_\_\_\_

Re: *New Combination Harford Academy and Elementary School,  
1605 Eva Mar Boulevard, Bel Air, Maryland*

Date: \_\_\_\_\_

To: Board of Education of Harford County  
Harford County Public Schools  
102 South Hickory Avenue  
Bel Air, Maryland 21014

All:

Having examined the Instruction to Bidders, the Drawings and the Specification, including Addenda Nos. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_, thereto, and other proposed Contract Documents prepared by Grimm and Parker Architects and having examined the site and other conditions affecting the construction, the undersigned hereby proposes to furnish all labor, materials, equipment and services to perform all work required for New Combination Harford Academy and Elementary School, 1605 Eva Mar Boulevard, Bel Air, Maryland, in strict accordance with the Contract Documents for the sums listed in the following bid items:

It is understood that if no figure is listed for an Alternate, that the Alternate may be accepted and there shall be no change in the Base Bid amount indicated below:

1. BASE BID:

The Lump Sum Base Bid for the New Combination Harford Academy and Elementary School

Add \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

2. ADD ALTERNATE 1:

Elementary School Classroom Addition

Add \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

## 3. ADD ALTERNATE 2/2A:

Floor finish in high traffic locations.

Add No. 2 \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)Add No. 2A \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

## 4. ADD ALTERNATE 3/3A:

LVT floor finish

Add No. 3 \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)Add No. 3A \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

## 5. ADD ALTERNATE 4/4A:

Quartz tile floor finish in high traffic locations

Add No. 4 \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)Add No. 4A \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

## 6. ADD ALTERNATE 5/5A:

Fall Protection

Add No. 5 \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)Add No. 5A \_\_\_\_\_, Dollars (\$ \_\_\_\_\_)

## 7. Unit Prices:

The following unit costs shall be the basis for any **additional** or **deleted** services from the project scope of work as requested by the Owner/CM. The undersigned acknowledges the unit price values as part of this bid proposal and agrees to add or delete items for the unit prices identified when directed to do so by the Construction Manager. Unit prices listed are applicable to all work in this project involving extra materials/services performed by the Contractor or its Subcontractors and/or credits to the Owner/CM for materials/services deleted from the project. Unit price includes all overhead, profit, applicable taxes, bonds, labor, fringes, materials, equipment, burden and any other incidentals related to the completion of the work. Prices as stated shall remain in effect through the end of the Contract period. The undersigned acknowledges the unit price values as part of this bid and agrees to add or delete items for the unit prices

<u>NUMBER</u>	<u>DESCRIPTION OF ITEM</u>	<u>UNIT</u>	<u>PRICE</u>
1.	Earth Excavation – machine	cu. yd.	<u>\$ 4.50</u>
2.	Earth Excavation – hand	cu. yd.	<u>\$ 320.00</u>
3.	Trench Machine earth excavation	cu. yd.	<u>\$ 8.50</u>
4.	Open area rock excavation and removal	cu. yd.	<u>\$ 125.00</u>
	(Over 2,500 cu. yds. to be negotiated at a lower rate)		

5.	Trench rock excavation and removal	cu. yd.	<u>\$ 225.00</u>
6.	Sodding	sq. yd.	<u>\$ 7.50</u>
7.	Hydroseeding	sq. yd.	<u>\$ 1.75</u>
8.	Concrete Walk (4", with mesh)	sq. yd.	<u>\$ 99.00</u>
9.	Gravel under slab	cu. yd.	<u>\$ 56.00</u>
10.	Bituminous Paving Standard Duty (Parking detail)	sq. yd.	<u>\$ 45.00</u>
11.	Bituminous Paving Heavy Duty (Bus areas)	sq. yd.	<u>\$ 57.00</u>
12.	Reinforced Concrete Footings – does not include excavation	cu. yd.	<u>\$ 475.00</u>
13.	Imported Topsoil (Spread)	cu. yd.	<u>\$ 52.00</u>
14.	Removal of unsuitable excavated material from site		
	Yardage under 5,000	cu. yd.	<u>\$ 40.00</u>
15.	Yardage over 5,000 up to 20,000	cu. yd.	<u>\$ 38.00</u>
16.	Yardage over 20,000 to be negotiated at a lower rate	cu. yd.	Negotiated
17.	Excavate unsuitable material and store on site	cu. yd.	<u>\$ 6.00</u>
18.	Furnish, deliver, spread and compact suitable material from on-site	cu. yd.	<u>\$ 6.50</u>
19.	Ground Stabilization Cloth	sq. yd.	\$ 2.50
20.	Longitudinal under-drain	lin. ft.	\$20.00
21.	Furnish, deliver, spread and compact Imported fill material		
	Yardage under 5,000	cu. yd.	\$25.00
22.	Yardage over 5,000 up to 20,000	cu. yd.	\$ 24.00
23.	Yardage over 20,000 to be negotiated at a lower rate	cu. yd.	negotiated
24.	Concrete curb and gutter	Lin. Ft	\$33.00
25.	Geotextile fabric for Site Pavement	sq. yd.	\$ 2.50
26.	4 foot vinyl coated chain link fence	lin. ft.	<u>\$ 24.00</u>
27.	6 foot vinyl coated chain link fence	lin. ft.	<u>\$ 26.00</u>
28.	8 foot vinyl coated chain link fence	in. ft.	<u>\$ 32.00</u>
29.	Import and place #2 stone	cu. yd.	\$56.00
30.	Import and place CR6 stone	cu. yd.	\$52.00
31.	Removal of stone offsite	cu. yd.	\$35.00
32.	4" Concrete Masonry Unit Walls	sq. ft.	<u>\$13.50</u>
33.	6" Concrete Masonry Unit Walls	sq. ft.	<u>\$14.50</u>
34.	8" Concrete Masonry Unit Walls	sq. ft.	<u>\$15.50</u>
35.	12" Concrete Masonry Unit Walls	sq. ft.	<u>\$ 20.00</u>
36.	4" Face Brick	sq. ft.	<u>\$26.50</u>
37.	Vinyl Composition Tile	sq. ft.	<u>\$ 4.60</u>
38.	Carpeting	sq. yd.	<u>\$40.00</u>
39.	Vinyl Wall Base	Lin. ft.	<u>\$ 2.25</u>
40.	Quartz Tile	Sq. ft.	<u>\$ 15.00</u>
41.	Acoustical ceiling	Sq. ft.	<u>\$ 7.00</u>
42.	Drywall ceiling	Sq. ft.	<u>\$ 7.50</u>
43.	Floor leveling w/Ardex self leveling gout mixture	Sq. ft.	<u>\$ 4.55</u>
44.	Duplex electrical receptacle	Each	<u>\$225.00</u>
45.	Toggle light switch	Each	<u>\$ 20.00</u>
46.	Single Data/Communication outlet	Each	<u>\$ 275.00</u>
47.	Double Data/Communication outlet	Each	<u>\$ 325.00</u>
48.	Cable TV outlet	Each	<u>\$ 225.00</u>
49.	Recessed Fire Extinguisher & cabinet	Each	<u>\$ 850.00</u>
50.	Wall footings	Cu. Yd.	<u>\$ 380.00</u>
51.	Column footings	Cu. Yd.	<u>\$ 380.00</u>
52.	Wood blocking for parapets	Lin. ft.	<u>\$ 3.75</u>
53.	Walk pads	Sq. ft.	<u>\$ 6.00</u>
54.	Duct	Lb.	<u>\$ 12.50</u>
55.	Hollow metal door frame Door	Each	<u>\$ 1,159.00</u>

56.	Drywall bulkhead	Sq. ft.	<u>\$11.00</u>
57.	Drywall partitions	Sq.ft.	<u>\$9.50</u>
58.	Markerboard/Tackboard	Sq. ft.	<u>\$ 31.00</u>

**PERFORMANCE BOND**

The undersigned intends that the surety company, noted here, shall furnish the performance bond:

\_\_\_\_\_

**EXECUTION:**

The undersigned affirms that the Base Bid stated above represents the entire cost of the Project in accordance with the Bid Documents and that no claim shall be made on account of any increase in wage, scales, material prices, taxes, insurance, cost indexes, or any other rate affecting the construction industry and/or this project.

The undersigned agrees, upon receipt of written notice of the acceptance of this bid within (90) calendar days after the date of opening of bids to execute the standard form of contract in accordance with the bid as accepted, and to give performance and payment bond with good and sufficient surety or sureties, for the faithful performance of the contract and for the protection of all persons supplying labor and materials in the prosecution of the work, within ten (10) calendar days after the prescribed forms are presented for signature.

Signature of:

X \_\_\_\_\_  
Bidder if the bidder is an individual

\_\_\_\_\_  
Name and Title (printed)

Registered Maryland Contractor No. \_\_\_\_\_

**OR**

X \_\_\_\_\_  
Partner if the bidder is a partnership

\_\_\_\_\_  
Name and Title (printed)

Registered Maryland Contractor No. \_\_\_\_\_

**OR**

X \_\_\_\_\_  
Officer if bidder is a corporation

\_\_\_\_\_



Name and Title (printed)

Registered Maryland Contractor No. \_\_\_\_\_

**ALL**

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

X \_\_\_\_\_  
Notary Public

My Commission expires: \_\_\_\_\_

NOTE: The following items shall be completed and submitted as attachments to the Bid at the time of the Bid opening:

- \*☐ 1. Section 00430 Bid Bond
- \*☐ 2. Section 00660 Minority Business Enterprise Utilization Affidavit – Attachment A
- \* ☐ 3. Section 00660 Minority Business Enterprise Schedule of Participation – Attachment B
- ☐ 4. Section 00630 Affidavit of Qualification to Bid

**\*NOTE: Items 1, 2, and 3 must be submitted in proper form and content at the time of bid opening or the bid will be rejected as non-responsive.**

**ADDENDUM NO. 5**

**SECTION 00490 – Capital Equipment Informational Prices**

The apparent low bidder shall provide prices for all items listed below within 48 hours after Bid Opening. Prices will be reviewed by the Interagency Committee on School Construction of the State of Maryland and must be approved before construction begins. These prices will not affect the awarding of the project.

ITEM I.D.	DESCRIPTION	PRICE PER UNIT	QUANTITY	TOTAL COST
<b>General Furnishing Schedule and Metal Shelving Schedule (Sheets A-9.0 thru A-9.3C)</b>				
A	Metal Shelving			
B	Metal Shelving			
C	Metal Shelving			
D	Metal Shelving			
E	Metal Shelving			
F	Metal Shelving			
G	Metal Shelving			
H	Metal Shelving			
<b>Equipment Schedule</b>				
E1	2 Burner Cooktop			
E2	Ice Machine			
E4	Science Refrigerator			
E7	Range, Freestanding			
E8	Range Hood – 30"			
E9	Range Hood – 21"			
E10	Dishwasher			
E11	Dryer – Athletic			
E12	Washer - Athletic			
<b>Media Furnishing Schedule</b>				
L1	<b>Mobile Double Faced Shelving</b> Add. No. 4 (02/06/26)			
L4	<del>Mobile Book Truck</del> Add. No. 4 (02/06/26)			
L7	<del>Mobile Double Face Bookshelf</del> Add. No. 4 (02/06/26)			
<b>Physical Education Equipment</b>				
P5	Divider Curtain			
P6	Divider Curtain			
P13	Team Cart			
	Safety Wall Pads			

**ADDENDUM NO. 5**

<b>Kitchen Equipment Schedule</b>				
2	Mobile Utility Cart			
6	Shelving, Mobile			
7	Dunnage Rack			
11	Shelving			
12	Shelving			
13	Dunnage Rack			
14	Worktable			
19	Slicer			
20	Ice Machine			
23	Tilting Kettle, 30 Gallon			
26	Convection Oven, Mobile			
28	Ingredient Bin, Mobile			
29	Mixer, 20 Qt.			
30	Pan Rack Cart, Mobile			
31	Worktable, Mobile			
32	Worktable			
34	Pot and Pan Shelving, Mobile			
36	Pass-Thru Heated Cabinet, Mobile			
37	Pass-Thru Refrigerator, Mobile			
40f	Cashier's Stand			
41	Cash Register			
50	Flatware & Tray Dispenser, Mobile			
51	Condiment Counter, Mobile			
<b>Equipment</b>				
104400	Portable Fire Extinguishers			
102123	Health Room Cubicle Curtains			
122113	Horizontal Louver Blinds			
122413	Window Shade Systems			
126133	Loose Upholstered Seating			
230900	Portable Operator Terminal			
265555	TV Studio Curtains			
271500	Cat 6 Patch Cords			
281301	Access Control Cards			

**END OF SECTION**

**ADDENDUM NO. 5**

**SECTION 08 71 00 - DOOR HARDWARE**

**PART 1 - GENERAL**

**1.1 SUMMARY**

**A. Section Includes:**

1. Everything necessary for and incidental to the execution and completion of all door hardware work, as indicated on the drawings and specified herein.

**1.2 REFERENCES**

**A. The publications listed below, including the amendments, addenda and designated changes, form a part of this specification to the extent referenced.**

1. Accessibility Codes:
  - a. Americans with Disabilities Act (ADA): Standards for Accessible Design.
  - b. ICC/ANSI A117.1: Accessible and Usable Buildings and Facilities.
2. American National Standards Institute (ANSI):
  - a. A156.6, Architectural Door Trim.
  - b. A156.18, Materials and Finishes.
  - c. A156.19, Power Assist and Low Energy Power Operated Doors.
3. Building Code: International Building Code (IBC), Basic Building Code.
4. Door and Hardware Institute (DHI):
  - a. Abbreviations and Symbols.
  - b. Recommended Locations for Builder's Hardware for Custom Steel Doors and Frames.
5. Electrical Code: 2020 National Electrical Code with Local Amendments.
6. Federal Specifications (FS): FF-H-111C-74 Hardware, Builders Shelf and Miscellaneous.
7. National Fire Protection Association (NFPA):
  - a. Standard 80, Fire Doors and Windows.
  - b. Standard 105, Standard for Smoke Door Assemblies and Other Opening Protectives.
  - c. Standard 252, Standard Methods of Fire Tests of Door Assemblies.
8. Underwriters Laboratories, Inc. (UL):
  - a. UL-BMD, Building Materials Directory.
  - b. UL 294, Standard for Safety Access Control System Units.

**1.3 SUBMITTALS**

**A. Sustainable Design Submittals:**

1. Product Data for LEED Credit MR 4: For products have recycled content, documentation indicating percentages by weight of pre-consumer and post-consumer recycled content.
  - a. Include statement indicating costs for each product having recycled content.

**B. Supplier's Hardware Schedule: Submit a door hardware schedule in accordance with Division 01 in the manner and format prescribed and used herein, complying with the actual construction progress. Hardware schedules are intended for coordination of the work. Review and acceptance by the Architect or Owner does not relieve the Contractor of his exclusive responsibility to fulfill the requirements as shown and specified.**

**ADDENDUM NO. 5**

1. Hardware Schedule Content: Based on hardware indicated, organize hardware schedule into Sets or sets showing complete designations of every item required for each door opening. Schedule shall be vertical layout similar to the format used herein. Lines shall be double spaced with pages numbered and dated.
  - a. For doors of different sizes or where hinges, locks or closers are different, a separate heading shall be used. No labeled openings shall be combined with non-labeled openings. Horizontal hardware schedules are not acceptable. Include the following:
    - 1) Number, location, hand, fire rating, size and material of each door opening (hands and swings to be determined in relation to key side of opening).
    - 2) Type, style, function, size, finish and quantity of each hardware item.
    - 3) Name and manufacturer of each item.
    - 4) Fastening requirements.
    - 5) Explanation of abbreviations used (use nomenclature consistent with DHI's "Abbreviations and Symbols" wherever possible).
    - 6) Special mounting locations and instructions.
  - b. Combined submittals are not acceptable. Do not combine hardware schedules with door and frame shop drawings.
  - c. Schedules not adhering to these parameters will not be reviewed.
- C. Hardware Schedule Index: Furnish an index cross referencing Contract Document Door Number and Hardware Set, and Supplier's hardware set.
- D. Product Data:
  1. Submit copies of manufacturers' specifications, maintenance and keying manuals, and installation instructions for each item of door hardware.
  2. Include photographs, catalog cuts, marked templates and other data as may be required to show compliance with these Specifications.
- E. Samples: Submit full size hardware samples as requested by Architect.
  1. Items shall remain on file in the Architect's office until all other similar items have been installed in the project. At that time, items on file will become Owner Maintenance Stock.
- F. Informational Submittals:
  1. Qualification Data: Submit Hardware Suppliers' and Hardware Installers' qualifications verifying years of experience and hardware manufacturers' certifications; include list of completed projects having similar scope of work identified by name, location, date, reference names and phone numbers.
    - a. Furnish written proof of certification of all qualified installers and/or hardware installation firms/subcontractors responsible for installation of hardware specified.
    - b. Certifications of installers must be submitted for approval prior to the start of installation.
  2. Templates: Provide necessary templates and/or physical hardware to all trades or factories requiring them so they may cut, reinforce or otherwise prepare their material or product to receive the hardware item. If any manufacturer requires physical hardware, ship to them such hardware via prepaid freight in sufficient time to prevent any delay in the execution of their work.
    - a. Openings indicated to be equipped with security hardware devices (e.g. electric strikes, door contacts, etc.) in the Hardware Sets shall be factory prepared for all door- and frame-mounted equipment being provided by the Owner's designated Security System Vendor. Acquire templates for such material in sufficient time to prevent delay in the fabrication of affected doors and frames.
- G. Other Informational Submittals: After Hardware Schedule has received approval; submit the following:

#### **ADDENDUM NO. 5**

- ~~1. Keying Schedule: Detailed keying system schedule, indicating Owner's approved keying system, for Owner's review and approval. Include the following:~~
  - ~~a. Schematic keying diagram~~
  - ~~b. Index identifying each key set to unique door designations.~~
  - ~~c. Bitting list.~~

12. Wiring Diagrams: Details of electrified door hardware. Include fire alarm and/or access control system interface where applicable.
  - a. Diagrams shall be complete by opening and shall indicate connections between all components affected. Manufacturers' standard line diagrams are not acceptable. Include the following:
    - 1) System schematic.
    - 2) Point-to-point wiring diagram.
    - 3) Riser diagram.
    - 4) Elevation of each door.
  - b. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.

#### **H. Closeout Submittals:**

1. Operating Instructions and Maintenance Data: Furnish one USB Flash Drive containing the Operation and Maintenance information. Coordinate delivery with the post-installation job site meeting. The drive shall be clearly labeled with the project name on the front. Include the following in clearly identified individual PDF files:
  - a. Maintenance instructions for each item of hardware supplied.
  - b. Copy of the final Door Hardware Schedules for all doors.
  - c. Current catalogs for each Hardware Manufacturer provided.
  - d. Names and phone numbers of the factory representatives for each item supplied.
  - ~~e. Copy of the final Keying Schedule.~~
  - ef. Copy of the final Wiring Diagrams.
2. Maintenance Tools: Furnish a complete set of specialized tools as needed for the Owner's continued adjustment, maintenance, removal, and replacement of door hardware.
3. Furnish three dozen extra screws and other fasteners of each type, size and finish used.
4. Warranty: Special warranties specified in this Section.

#### **1.4 QUALITY ASSURANCE**

- A. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
- B. Contractor: Assign all door hardware installation activities to a qualified and experienced Hardware Installer, who meets the following criteria:
  1. Completed door hardware installations similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
  2. Factory-certified training in the installation of Locksets, Exit Devices, Door Closers and Power Operators.
  3. At least one certified Installer must be on site during installation for the purpose of guidance and inspection of all hardware installation, to ensure compliance to manufacturers' recommended installation procedures and bid specifications.
  4. Installer shall arrange through Contractor to set up and attend pre-installation conference prior to installing door hardware. This conference will cover mechanical and electrical hardware components including all locksets, door closers, and exit hardware.
  5. All hardware shall be installed with factory-provided fasteners using factory provided installation instructions & templates.

**ADDENDUM NO. 5**

- C. Supplier Qualifications: Recognized architectural door hardware supplier, with warehousing facilities in Project's vicinity, who has been furnishing hardware in the Project's vicinity for a period of not less than five years.
1. Supplier must employ an Architectural Hardware Consultant (AHC) who shall be available throughout the course of the Work to consult with Contractor, Architect, and Owner about door hardware.
  2. Electrified Door Hardware Supplier Qualifications: An experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
  3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- D. Architectural Hardware Consultant Qualifications:
1. A person who is currently certified by the Door and Hardware Institute as an AHC and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
    - a. Consultant must be knowledgeable in electrified components and systems and be able to produce wiring diagrams for review and consultation as needed.
    - b. Supplier's AHC shall certify that all submitted hardware is fully compatible.
- E. Accessibility for Disabled Persons: Special hardware requirements for knurling, slow acting closers or other barrier free opening requirements shall be provided as indicated in the Hardware Set Schedule and as required to comply with the U.S. Department of Justice's "ADA Standards for Accessible Design" and ICC/ANSI A117.1.
- F. Hardware for Fire Doors and Exit Doors: Hardware for fire doors shall conform to NFPA 80; hardware for exit doors shall conform to all applicable provisions of IBC. Other requirements specified shall also apply. Such hardware shall comply with the applicable UL standards for the intended use specified and be listed in UL BMD or be labeled and listed by another testing laboratory deemed acceptable by the Authorities Having Jurisdiction (AHJ).
1. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to the AHJ, for fire ratings indicated, based on testing according to NFPA 252.
    - a. Test Pressure: After five minutes into the test, neutral pressure level in furnace shall be established at 40-inches or less above the sill.
- G. Electrified Door Hardware: Listed and labeled as defined in the National Electrical Code, by a testing agency acceptable to the AHJ, and marked for intended use.
- ~~H. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01. In addition to the Contractor's Project Manager and Superintendent and the Owner, conference participants shall also include Hardware Subcontractor as well as any others requested by the Owner.~~
- ~~1. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
    - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - b. Preliminary key system schematic diagram.
    - c. Requirements for key control system.
    - d. Address for delivery of permanent keys and cores.~~
- H. Pre-Installation Conference: Conduct conference at Project site. Review methods and procedures related to door hardware installation including, but not limited to, the following:

**ADDENDUM NO. 5**

1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
2. Review sequence of operation for each type of electrified door hardware.
3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review required testing, inspecting, and certifying procedures.

1d. Reference Standards: Except as otherwise required by governing authorities or Contract Documents, comply with applicable provisions of Door and Hardware Institute.

**1.5 DELINEATION OF DOOR CONTROL INTERFACE RESPONSIBILITIES**

- A. Furnish and install electrified locking hardware, power transfers, magnetic door contacts, etc., as required for the system to perform the functions as defined herein.
- B. Provide a single point of interconnection at the hinge or power transfer.
- C. Provide a wiring interface for the project's Security System Integrator to make connections to the control systems. The wiring interface shall be a Molex-Type connector. The mating connector to which the Security system conductors are connected shall be furnished as part of the connector assembly and shall be furnished with conductor "pigtail" having a minimum length of six inches.
- D. Where required, furnish door hardware power supplies as required to power the specific equipment.
- E. Provide solenoids for direct current (DC) application with diodes for transient protection.
- F. Provide boxes or pockets in the door frame as required to accommodate magnetic door contacts, locks, power transfers, etc., coordinate with door and frame manufacturers.
- G. Provide interconnecting conduit in the door frame between all switches, monitoring devices, and electrified hardware.

**1.6 PRODUCT DELIVERY**

- A. Deliver door hardware to the Contractor. Direct factory shipments (drop shipments) to the job site are not acceptable.
  1. Deliver items of hardware at the proper times to the proper locations (shop or project site) in their original individual containers, complete with necessary appurtenances including screws, keys, manufacturers' printed instructions, and where necessary, installation templates for manufacturer's suggested installation. Mark each individual container with the manufacturer's name and catalog number as they appear in the hardware schedule.
- B. Representatives of the Contractor and the Hardware Supplier shall jointly inventory the door hardware. Replace items damaged in shipment promptly and with proper material without additional cost to the Contractor. Handle all hardware in a manner to eliminate marring, scratching or damage.
- C. Keys and Cores:
  1. Supply construction master keys and cores to Contractor when cylinders and locks are delivered, for use during construction.
  2. Prior to the scheduled completion of the project, manufacturer shall ship all permanent keys and cores directly to the HCPS Locksmith Owner via Registered Mail, Return Receipt Requested or other pre-approved means.
  3. Under no circumstance shall any permanent keys or cores be furnished directly to the Contractor.
- D. Key Cabinet: Deliver key cabinet prior to building occupancy.



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### **1.7 WARRANTIES**

- A. Warranties shall be furnished in accordance with Division 01.
- B. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fails in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including excessive deflection, cracking, or breakage.
    - b. Faulty operation of operators and door hardware.
    - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
    - d. Electrical component defects and failures within the systems operation
  - 2. Minimum Warranty Periods:
    - a. Hinges: Life of the installation.
    - b. Manual Closers: Twenty-five years from date of Substantial Completion.
    - c. Continuous Hinges: Ten years from date of Substantial Completion.
    - d. Exit Devices and Locksets:
      - 1) Mechanical: Three years from date of Substantial Completion
      - 2) Electrified: Two years from date of Substantial Completion.
    - e. All other hardware items: Two years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 GENERAL**

- A. Template Hardware: Hardware to be applied to metal or pre-finished doors and frames shall be made to template. Coordinate hardware locations to prevent interference with other hardware items.
- B. Identification: All hardware items shall be clearly and permanently marked by the manufacturer where it will be visible after installation.

### **2.2 HARDWARE ITEMS**

- A. Butt Hinges: Ives.
  - 1. Butt hinges shall be Ives 5BB1 Series.
  - 2. Furnish two butt hinges for doors 60-inches or less in height and one additional butt hinge for each additional 30-inches of height or fraction thereof. Unless otherwise specified, butt hinges for doors through 40-inches wide shall be 4.5" x 4.5"; hinges for doors over 40-inches wide shall be heavyweight 5" x 4.5".
  - 3. Butt hinges shall have five knuckles. Furnish non-removable pins (NRP) for all reverse bevel doors receiving keyed locks, rigid outside trim or exit only hardware. Provide butt hinges with holes in the bottom plug to facilitate pin removal.
  - 4. Butt hinges for labeled doors shall comply with the requirements of NFPA 80.
- B. Cylinders: Schlage Lock Company.
  - 1. Provide cylinders for locksets, deadlocks, exit devices, and all other locking devices indicated in Hardware Sets.
  - 2. Description:
    - a. Cylinders shall be Schlage Everest / D Family, Level 9G (exact part number to be determined) interchangeable core with cores removable by special control key.
    - b. Cylinder parts manufactured from brass, bronze, stainless steel, or nickel silver.

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- c. Equip all cylinders with brass color-coded, temporary cores for use during construction and for testing the hardware; plastic cores are prohibited.
    - ~~c. All cylinders shall be construction master keyed. Equip locks with manufacturer's special pin tumbler cylinders that permit voiding construction keys without removal of the cylinder.~~
    - d. Include all necessary extensions, cams, tail pieces and hardened collars required for a complete installation.
- C. Locks and Latches: Corbin Russwin Architectural Hardware, Sargent Manufacturing Company or Schlage Lock Company.
  - 1. Locks and latches shall be equal to Schlage L Series with 06A lever trim and ADA thumbturns.
    - a. All internal working parts shall be brass, bronze, steel or stainless steel. For each lock and latchset, provide strike box and square corner ASA strike with curved lips of sufficient length to protect frames; at pairs of doors furnish flat lip strikes.
  - 2. Furnish keyed devices with cylinders keyed to building system.
- D. Exit Devices and Exit Device Accessories: Interior Doors: Corbin Russwin Architectural Hardware, Sargent Manufacturing Company or Von Duprin, Inc. Exterior Doors: Von Duprin, Inc.
  - 1. Refer to the Hardware Set Schedule for grade and function.
    - a. Where lever handle functions are required on exit devices, they shall match the design and construction of lever handles specified for mortise locks.
    - b. At mortise exit devices, provide strike box and square corner, stainless steel ASA strike with curved lips of sufficient length to protect frames; at pairs of doors furnish flat lip strikes.
  - 2. Furnish with provision for concealed mounting, through bolts will not be acceptable.
  - 3. Furnish keyed devices with cylinders keyed to building system.
  - 4. Fire Exit Devices: Provide UL-labeled fire-exit hardware at all fire- and smoke-rated openings. Complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire protection, based on testing according to NFPA 252.
  - 5. Electrical Modifications:
    - a. Exit devices indicated to have electric latch retraction (QEL) shall be modified to electrically unlatch (dog down) upon receipt of a maximum 1.0amp, 24V signal and will remain unlatched until signal is interrupted.
    - b. Field-connect electrified exit devices to associated power transfer units. Coordinate electrical connection and installation with Divisions 26 and 28.
- E. Automatic Flush Bolts and Coordinators: Ives, Rockwood Manufacturing Company or Trimco.
  - 1. Coordinators: Provide integral device mounted at head frame, complete with closer brackets as required, for full opening width.
  - 2. Provide standard strikes with wrought boxes for top bolts.
- F. Surface Closers: ~~Interior Doors: dormakaba,~~ LCN Closers or Sargent Manufacturing Company. Exterior Doors: LCN Closers.
  - 1. Surface closers shall be ~~dormakaba 8900 Series,~~ LCN 4010 Series or Sargent 281 Series.
  - 2. Closer arms shall be forged and fluid shall accommodate all applicable weather conditions.
    - a. At parallel arm installations, provide manufacturer's heaviest-duty arm assembly.
  - 3. Where factory sized closers are specified, sizes are to be determined by manufacturer's recommendations for door size, location and applicable handicap requirements.
    - a. Door opening forces shall comply with ADA Standards 309.4 and 404.2.9.

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4. Install surface closers on the least conspicuous side of the door (side opposite public view).
    - a. Where required to avoid interference with acoustical seals, provide closer mounting brackets for proper frame attachment. Field-paint brackets to match frame finish.
  5. Provide surface closers complete with accessory items and attachments, including full closer covers, special arms, soffit shoes, and drop plates. Corner bracket installations are not acceptable.
    - a. Closers, covers, brackets and other components shall not extend below bottom of top horizontal rail of door.
  6. Furnish with provision for concealed mounting, through bolts will not be acceptable.
- G. Power Operators: Horton Automatics or LCN Closers.
1. Power operators shall be Horton 4100LE or LCN 9500.
  2. Operators shall be of heavy-duty construction. Sizes are to be determined by manufacturer's recommendations for door size and location.
    - a. Units shall operate as manual door closers unless operator is activated and when power is lost.
    - b. Comply with ANSI A156.19 and ADA Standards 309.4, 404.3.5 and 404.2.9.
  3. Operation: Activating switch automatically opens door leaf to 90-degrees, operator then manually closes door after variable time delay expires.
  4. Actuator Switches: Provide hands-free 2 3/4" (W) x 4-1/2" (H) rectangular wall- and pedestal-mounted, and 1-3/4" (W) x 4-1/2" (H) jamb-mounted actuator plates as indicated.
    - a. Wireless actuators shall operate at minimum 900MHz; jamb-mounted actuators shall operate on 24VDC provided by operator.
    - b. Engraved with "WAVE TO OPEN" and the Universal Accessibility Symbol.
  5. Control Unit:
    - a. Micro-processor controlled.
    - b. Provide adjustable opening speed, adjustable backcheck speed, adjustable closing speed, and adjustable hold-open period.
    - c. Provide built-in 3-position switch for "OFF", "ON" and "HOLD-OPEN" operation and to deactivate actuator switches.
    - d. At concealed operators switch must located underside of operator.
    - e. Provide safety-stop feature: If object or obstruction is encountered during opening and/or closing cycles, door operator stops and slowly returns to closed or open position respectively.
    - f. Provide with safety circuit so that if actuator switch is activated when door is latched or locked, power operator resets without operator and/or door damage.
  6. Accessories: Furnish complete with fastenings, fittings, and other accessories as required for a complete installation.
  7. Manufacturer shall provide detailed wiring diagrams showing point-to-point hook-up of all components affected (e.g., operators, actuators, power, security system, etc.).
  8. Coordinate electrical connection and installation with Divisions 26 and 28.
- H. Architectural Door Trim: Hager Companies, Ives or Rockwood Manufacturing Company.
1. Protection Plates: Beveled on three sides, equal to Hager #193S.
    - a. Unless otherwise indicated, or where narrow bottom rails dictate a smaller size, kick plates shall be 10-inches high and armor plates 34-inches high. Width shall be 1.5-inches less than the door width on single doors and 1-inch less than the door width on double doors. Mop plates shall be 6-inches high and 1/2-inch less than the door width.
    - b. Armor plates on labeled doors shall comply with the requirements of NFPA 80.

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2. Push and Pull Plates:
  - a. Plates shall be beveled on all sides, fabricated from .050-inch thick stainless steel.
    - 1) Unless otherwise indicated in the Hardware Set Schedule, plates shall be 4-inches wide and 16-inches high.
  - b. Pulls: Pulls shall be 10-inches center-to-center.
    - 1) Fabricate pulls from 1-inch round solid bar stock.
3. Fasteners: Furnish all flat goods with Phillips undercut countersunk screws. Trusshead screws are not acceptable.
- I. Auxiliary Hardware: Ives, Rockwood Manufacturing Company or Trimco.
  1. Manual Flush Bolts: Top manual flush bolts shall not exceed 74-inches from floor to centerline.
  2. Provide wall stops equal to Rockwood #403 wherever door strikes wall. Where wall stops are not suitable, furnish floor stops equal to Rockwood #441.
  3. Silencers: Furnish rubber silencers equal to Rockwood #608 for hollow metal frames; three per single door and two per pair.
    - a. Silencers are not required at aluminum frames or at doors specified to receive continuous weather-stripping or seals.
- J. Overhead Holders and Stops: Glynn-Johnson.
  1. Where wall stops will not work, furnish Glynn-Johnson #GJ90S surface-mounted overhead stops.
  2. Furnish with provision for concealed mounting, through bolts will not be acceptable.
- K. Thresholds, Weather-stripping and Seals: DHSI, National Guard Products, Inc., Pemko Manufacturing Company or Reese Enterprises, Inc..
  1. Provide DHSI #105 continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and wet areas.
  2. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated.
    - a. Smoke Seals: At all fire-rated wood doors, all 20-minute rated doors, and any other doors required to be 'smoke resistant', provide the following:
      - 1) DHSI #105.
      - 2) Refer to the Drawings for locations.
  3. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
  4. Door Bottoms: Door sweeps used on exterior doors shall be NGP 101V or 100V as listed. Door bottom seals used on interior doors for sound, light transfer, smoke reduction or security shall be DHSI #CS-36, #A-MDB3 or #SSDB3 as selected and detailed in the hardware set schedule.
  5. Where required, field-modify thresholds to receive strikes for exit devices and flush bolts.
- L. Key Control System: Lund Key Cabinets, MMF Industries or TELKEE, Inc.
  1. Wall-mounted metal cabinet with baked-enamel finish; containing key-holding hooks, labels, two sets of key tags with self-locking key holders, key-gathering envelopes, and temporary and permanent markers; with key capacity of 150% of the number of cylinders required herein.

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- a. Equip cabinet with hinged-panel door, key-holding panels, and pin-tumbler cylinder door lock.
  - b. Cross-Index System: Multiple-index system for recording key information. Include three receipt forms for each key-holding hook. Set up by Key Control System Manufacturer.
  - c. Place keys on markers and hooks in the cabinet as determined by the final keying schedule.
- M. Electric Strikes: Folger Adam Company or Von Duprin, Inc.
- 1. Units shall operate at 24V current; refer to the Hardware Set Schedule for grade and function.
  - 2. Products must be UL 294 Listed.
  - 3. Coordinate installation and electrical connection with Divisions 26 & 28.
- N. Magnetic Door Contacts: George Risk Industries, Schlage Electronics or Securitron Magnalock Corporation.
- 1. Unless otherwise indicated, door contacts shall be equal to Schlage #679-05HM. Provide built-in, end of line resistors as required by the Electronic Security Control System.
  - 2. Coordinate electrical connection and installation with Division 28.
- O. Boxed Power Supplies: Modular unit in National Electrical Contractors Association Standard NEMA ICS 6, Type 4 enclosure; filtered and regulated; voltage rating and type matching requirements of door hardware served; and listed and labeled for use with fire alarm systems.
- P. Special Tools: Provide any necessary special tools (e.g. spanner and socket wrenches, dogging keys, etc.) required to service and adjust hardware items.
- Q. Power Transfer Pivots: Von Duprin, Inc.
- 1. Concealed PTFE-jacketed wires, secured at each leaf and continuous through sleeve.
  - 2. Field-connect power transfer units to associated electrified locking hardware. Coordinate electrical connection and installation with Divisions 26 and 28.

#### 2.3 HARDWARE FINISHES

- A. Base metals: Produce hardware units of basic metal and forming method indicated, using manufacturers standard metal alloy composition, temper and hardness, but in no case of lesser quality than specified or inferred by use of a particular manufacturer's number, style or grade or as established by appropriate referenced specification listed herein.
- B. Finishes: Finishes shall conform to the quality of finish including thickness of plating or coating (if any), composition, hardness and other qualities complying with manufacturer's standards, but in no case less than the standards established by ANSI/BHMA A156.18 or Federal Specifications FF-H-111C as applicable.
- 1. Unless otherwise indicated, all exposed hardware except surface closers, power operators and non-ferrous hinges shall be satin chrome plated, ANSI/BHMA 626/US26D.
    - a. Surface closers and power operators shall be factory-finished to match satin chrome.
    - b. Non-ferrous hinges shall be satin stainless steel, ANSI/BHMA 630/US32D.
    - c. Items of hardware not available satin chrome plated shall be furnished in satin stainless steel.
  - 2. Where painting of primed surfaces is required, refer to Division 09 specifications.

#### 2.4 KEYING

- A. General: Permanent cores shall be furnished "zero-bitted".

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- A. ~~General: Cylinders shall be keyed to the existing SchlageEverest / D Family, Level 9G key system.~~
1. The HCPS Locksmith will handle the keying of permanent cores.
  1. ~~Keying is the responsibility of the Contractor; and shall be performed by the cylinder supplier.~~
  2. ~~Key System Summary, Cover Sheet, and Letter of Authorization shall accompany Keying Schedule and Purchase Order sent to Factory.~~
- B. Keys: Provide keys ~~of nickel silver only~~ in the following quantities:
1. Grand Master Keys: TenTwo.
  2. Master Keys: FiveThree per set.
  3. Change Keys: Five per key set symbolThree for each cylinder.
  4. Key Blanks: 100.
  5. Construction Master Keys: Ten.
  6. Control keys (for removal of cores): Ten - six permanent and four temporary/construction.
- C. Identification:
1. Stamp all change keys with keyset symbol (VKC), but do not stamp with key section or biting number.
  2. Stamp master keys and grand master keys "DO NOT DUPLICATE".

#### 2.5 FASTENERS

- A. Manufacture hardware to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping or sheet metal screws except as specifically indicated.
1. Furnish screws for installation with each hardware item. Provide Phillips flat head or oval head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match the hardware finish or, if exposed in surfaces of other work, to match the finish of such work as closely as possible, except as otherwise indicated.
    - a. Where wood screws are required, they shall be full thread (to the head) type. Combination wood/machine screws, in lieu of wood screws, are not acceptable.
  2. Provide concealed fasteners for hardware units which are exposed when the door is closed, except to the extent no standard manufactured units of the type specified are available with concealed fasteners. Do not use through bolts for installation except where it is not possible to adequately reinforce the work, to accept machine screws or concealed fasteners or another standard type, to satisfactory avoid the use of through bolts. Grommet nuts and seal nuts are not acceptable.
  3. Furnish fasteners which are compatible with both the unit fastened and the substrate, and which will not cause corrosion or deterioration of hardware, base material reinforcement or fastener. Furnish wall stops with "Toggler" anchors and wood screws. Furnish thresholds and floor stops with lead anchors and 1/4-20 stainless steel machine screws.

#### PART 3 - EXECUTION

##### 3.1 STORAGE AND HANDLING

- A. Representatives of the Contractor and the Hardware Supplier shall jointly inventory the door hardware. Replace items damaged in shipment promptly and with proper material without additional cost to the Contractor. Handle all hardware in a manner to eliminate marring, scratching or damage.
1. A dry, locked storage space complete with adequate shelving shall be set aside for the purpose of unpacking, sorting out, checking and storage. Control the handling and

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installation of hardware items, whether immediately replaceable or not, so completion of the work will not be delayed by losses before or after installation.

2. Tag each item or package separately, with identification related to the final approved hardware schedule, and include basic installation instructions in the package. Furnish hardware items of proper design for use on doors and frames of thickness, profile, swing, security and similar requirements indicated as necessary for proper installation and function.

### **3.2 COORDINATION**

- A. Coordinate Door Hardware Schedule submission and hardware ordering to insure delivery of all items as directed by the Contractor.
  1. Prior to ordering any hardware, examine the shop drawings and details of doors and frames and other substrate suppliers to determine that the proper type and size pieces of hardware are being furnished. No extra for material or labor will be allowed for any corrections that should have been eliminated by proper prior coordination.
- B. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, and access control system.
- D. Concrete, reinforcement, and formwork requirements are specified in Division 03.

### **3.3 EXAMINATION**

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.4 INSTALLATION**

- A. Install each hardware item in accordance with final approved Hardware Schedule and manufacturer's instructions.
  1. Set hardware level, plumb and true to line and location.
  2. Adjust and reinforce attachment substrate as required for proper installation and operation of hardware.
  3. Drill and countersink units which are not factory-prepared for anchorage fasteners; space fasteners and anchors uniformly, in accordance with industry standards.
- B. Hardware Mounting Heights:
  1. The following mounting heights supersede manufacturers' recommendations and shall apply throughout the work unless otherwise shown or specified.
    - a. Centerline of strike for levers: 40".
    - b. Centerline of exit device touch pad: 40".
    - c. Centerline of thumbturn/cylinder for deadlocks: 46".
    - d. Centerline of push plates and pull plates: 41".
    - e. Centerline of door pulls: 38".
    - f. Centerline of push bars: 40".

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- g. Centerline of viewer: 60".
  - 2. Coordinate mounting height of exit device with door mid-rail location.
- C. Fire Doors and Exit Doors:
  - 1. Install hardware for labeled fire doors in accordance with the requirements of NFPA 80.
  - 2. Hardware for listed exit doors shall conform to all applicable provisions of IBC.
- D. Hinges:
  - 1. Install steel doors and wood doors to comply with reference standards, as specified in door sections.
  - 2. Where shimming is required to comply with tolerances, provide metal shims only.
- E. Electrified Hardware:
  - 1. Pre-wire and make field connections between all electrically operated and monitored hardware items including, but not limited to, locks, exit devices, power transfers and magnetic door contacts.
  - 2. All wiring must be 18 gauge or thicker.
- F. Closers:
  - 1. Do not install parallel arm closers until after weather-stripping or seals have been installed on head frame (where weather-stripping or seals are scheduled).
  - 2. Do not cut weather-stripping or seals for attachment of closer brackets or shoes.
  - 3. Adjust closers to control door swing and to provide positive latching of doors.
    - a. Adjust closers not to exceed following manual opening forces:
      - 1) Exterior doors: As required to close and latch each leaf.
      - 2) Interior doors (non-fire-rated): Maximum 5-pound opening force.
      - 3) Fire-rated doors: As required to close and latch each leaf.
    - b. After air-handling system has been balanced, make final adjustment of all closers.
- G. Door Stops:
  - 1. Install stops for maximum degree of door opening swing allowed by conditions of installation.
  - 2. Locate floor stops so as not to create a tripping hazard.
  - 3. Locate wall stops centered on spindle of lever handles.
- H. Weather-stripping and Seals:
  - 1. Install continuous around door heads and jambs, and meeting stiles of pairs of doors.
  - 2. Install bottom weather-stripping and automatic door bottoms for full width of door.
  - 3. Do not cut weather-stripping or seals for attachment of closer brackets or shoes.
  - 4. Installation of Adhesive Gasketing and Seals: The following installation instructions must be strictly adhered to. Failure to comply can result in premature product failure. Contractor will be required to remove failed product entirely and properly install new materials.
    - a. Before installation, thoroughly clean the frame with the manufacturer-enclosed cleansing towelette to remove grease, dust or cleanser build-up. Before installation, wait for frame surface to completely dry (evaporate). As an alternative or substitute cleanser, use isopropyl (rubbing) alcohol. Mineral spirits or other petroleum-based cleaning products should NOT be used.
    - b. Application Temperature: Do not install if frames are below 50°F or above 100°F.
    - c. When to Install:
      - 1) Installation should take place after construction is completed, flooring is installed, and final cleaning is completed.



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- 2) Paint on frame must be cured for at least 5-7 days. Paint cannot be wet under dry surface when gaskets are pressed on. Avoid quick-dry primers, which leave a powdery surface preventing sufficient adhesion.
    - 3) When applying to a wood frame, the surface must be non-porous and sealed. Follow standard industry guidelines on sealed wood frames and/or rough surface before applying.
  5. Weather-stripping, gasketing and seals must form an airtight barrier around the full perimeter of the door. There can be no gaps that allow air, light, sound, or smoke to pass through.
    - a. Contractor is responsible for adjusting the alignment of doors and seals until the above conditions are met. If gaps cannot be avoided because the door or frame is not properly sized, plumb, and level, the offending components must be replaced at contractor expense.
  6. Align rain drips with the bottom edge of the door frame rabbet.
  7. Set rain drips and exterior thresholds in full bed of mastic sealant and attach with stainless steel fasteners.
- I. Key Cabinet:
  1. Install in accordance with manufacturer's instructions in location as directed. Instruct the Owner in the use of the key control system.
  2. Keys shall be tagged, neatly installed within the key cabinet, and delivered to the Property Manager or designated representative. Submit documentation of keying compliance including copies of signed transmittals for all building keys and cabinet provided by the Hardware Supplier.
- J. Coordination with Adjacent Finishes:
  1. If cutting and fitting are required to install hardware onto or into surfaces that are later painted or finished in another way, install each item completely and then remove and store in secure place during finish application.
  2. After completion of finishes, reinstall each item.
  3. Do not install surface mounted items until finishes are complete on substrate.
- K. Cylinder Cores:
  1. After construction work is complete, the HCPS Locksmith will remove construction cores and install permanent cores.
  2. Construction cores and keys will be returned to the Contractor.
    - a. It is the Contractor's responsibility to return the construction cores and keys to the manufacturer. Construction cores and keys remain the property of the Cylinder Manufacturer

**3.5 ADJUST AND CLEAN**

- A. General: To ensure proper operation and function of every unit, adjust and check each operating item of hardware and each door. Lubricate moving parts with type lubrication recommended by the manufacturer (graphite-type if no other recommended). Replace unit that cannot be adjusted and lubricated to operate freely and smoothly as intended for the application made.
  1. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Verify that the Owner has been supplied with manufacturers' installation and maintenance manuals, catalogs, and any special adjusting tools normally supplied by the manufacturer.
- B. Continuity Testing: Inspect all connections between electrically operated and monitored hardware items including, but not limited to, electrified locks and exit devices, power transfers

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and power supplies. Upon completion of inspection, furnish the Architect with itemized report indicating any problems found and steps taken to repair anomalies.

- C. Final Adjustment: Wherever hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and perform a final check and adjustment of all hardware items in such space or area. Clean and re-lubricate as necessary to restore proper function and finish of hardware and doors.
1. Prior to acceptance of any electrical hardware system, an operational test shall be performed to determine if devices are functioning as intended by the specifications. Wiring shall be tested for correct voltage, current-carrying capacity, and proper grounding. Stray voltages in lock wiring shall be eliminated to prevent locking devices from releasing in critical situations.
- D. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
1. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements.
  2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.
  3. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units.
  4. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.
  5. Deliver Operations and Maintenance Manuals and any other special tools needed to maintain the hardware.

#### 3.6 HARDWARE SET SCHEDULE

- A. The following hardware set schedule is to be used in conjunction with the architectural drawings as a guide for furnishing the door hardware.
1. The Hardware Supplier shall coordinate the hardware sets with door types, sizes and details to properly verify the function of each item.
- B. The hardware schedule shall include, in each set, the door operation, electrical contractor notes and any other special notes as stated in the specification set.
- C. The description of the locations listed in each hardware set is intended to strictly be a guide in assigning the sets. The appropriate application and code requirements must be considered when applying a set to a specific opening.

#### 3.4 HARDWARE SETS

##### Set A Chain Link Fence Gate with Panic Hardware - Single

1 set	Hinges	Gate Manufacturer
1	Exit device LD-XP99EO x VR910NL x 1609 strike	Von Duprin
4	<del>Nightlatch function exit device ED41 x PB1100 x PB-NLED</del>	<del>LockeyUSA</del>
1	Cylinder	Schlage
1	Stop 467	Rockwood
Coordinate all hardware with gate manufacturer prior to ordering		

##### Set B Chain Link Fence Gate with Panic Hardware - Pair

2 sets	Hinges	Gate Manufacturer
1	Exit device LD-XP99EO x VR910NL x 1609 strike	Von Duprin
4	<del>Nightlatch function exit device ED41 x PB1100 x PB-NLED</del>	<del>LockeyUSA</del>
1	Cylinder	Schlage
1	Cane bolt 0524.00023SS x floor keeper	Richards-Wilcox
2	Stops 467	Rockwood
Coordinate all hardware with gate manufacturer prior to ordering		

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## Set C Chain Link Fence Gate with Lockset - Pair

2 sets Hinges

Gate Manufacturer

1 Storeroom function lockset L9080 with Strike Keeper Schlage

~~1 Storeroom function lockset CLH-LA with Strike Keeper Locinox~~

1 Cylinder Schlage

1 Cane bolt 0524.00023SS x floor keeper Richards-Wilcox

2 Stops 467 Rockwood

Coordinate all hardware with gate manufacturer prior to ordering

## Set 110

Hinges 5BB1 Ives

1 Passage function latchset L9010 Schlage

1 Stop Ives

## Set 111

Hinges 5BB1 Ives

1 Passage function latchset L9010 Schlage

1 Kick plate 8400 Ives

1 Stop Ives

## Set 112

Hinges 5BB1-32D Ives

1 Privacy function latchset L9040 x L283-722 Schlage

1 Coat hook 941P Hager

1 Kick plate 8400 Ives

1 Mop plate 8400 (at inswing doors only) Ives

1 Stop Ives

## Set 113

Hinges 5BB1-32D Ives

1 Privacy function latchset L9040 x L283-722 Schlage

1 Surface closer 4011 / 4111 LCN

1 Coat hook 941P Hager

1 Kick plate 8400 Ives

1 Mop plate 8400 (at inswing doors only) Ives

1 Stop Ives

## Set 114

Hinges 5BB1 Ives

1 Passage function latchset L9010 Schlage

1 Surface closer 4011 / 4111 LCN

1 Kick plate 8400 Ives

1 Stop Ives

## Set 115

Hinges 5BB1-32D Hager

1 Passage function latchset L9010 Schlage

1 Kick plate 8400 Ives

1 Mop plate 8400 (at inswing doors only) Ives

1 Stop Rockwood

## Set 116

Hinges 5BB1 Ives

1 Privacy function latchset L9040 x L283-722 Schlage

1 Surface closer 4011 LCN

1 Kick plate 8400 Ives

1 Coat hook 941P Hager

1 Stop Ives

**ADDENDUM NO. 5**

Set 117

	Hinges 5BB1	Ives
1	Passage function latchset L9010	Schlage
1	Surface closer with integral stop 4111-SCNS	LCN
1	Kick plate 8400	Ives

Set 122

	Hinges 5BB1	Ives
1	Passage function latchset L9010	Schlage
1 set	Automatic flush bolts FB51P	Ives
1	Dust strike DP2	Ives
1	Coordinator COR x FB (field-paint to match frame)	Ives
2	Surface closers 4111 x 180-degree swing	LCN
2	Kick plates 8400	Ives
2	Stops	Ives
	Astragal by door manufacturer	

Set 210

	Hinges 5BB1HW-32D	Ives
1	Classroom function deadlock L463T x 34" AFF to thumbturn (below push-pull)	Schlage
1	Push plate 8200	Ives
1	Pull plate 8302 (TB pull & conceal fasteners under push plate)	Ives
1	Surface closer with delay-action 4011-DEL	LCN
1	Kick plate 8400	Ives
1	Mop plate 8400	Ives
1	Stop	Ives

Set 211

	Hinges 5BB1-32D	Ives
1	Entrance function deadlock L460T x 34" AFF to thumbturn (below push-pull)	Schlage
1	Push plate 8200	Ives
1	Pull plate 8302 (TB pull & conceal fasteners under push plate)	Ives
1	Surface closer with delay-action 4011-DEL	LCN
1	Kick plate 8400	Ives
1	Mop plate 8400	Ives
1	Holder-stop WS45	Ives

Set 212

	Hinges 5BB1-32D	Ives
1	Push plate 8200	Ives
1	Pull plate 8302 (TB pull & conceal fasteners under push plate)	Ives
1	Surface closer 4011	LCN
1	Kick plate 8400	Ives
1	Stop	Ives

Set 220

	Hinges 5BB1HW-32D	Ives
2	Push plates 8200	Ives
1	Pull plate 8302 (TB pull & conceal fasteners under push plate)	Ives
2	Surface closers with delay-action 4011-DEL	LCN
2	Kick plates 8400	Ives
2	Mop plates 8400	Ives
2	Stops	Ives