



**Addendum**

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Beacon City School District  
Beacon, New York

SED NO. 13-02-00-01-0-002-021  
13-02-00-01-0-008-020  
13-02-00-01-0-003-016  
13-02-00-01-0-004-023  
13-02-00-01-0-020-012  
13-02-00-01-0-006-022

Reconstruction to  
Beacon High School  
Rombout Middle School  
JV Forrestal Elementary School  
Sargent Elementary School  
South Avenue Elementary School

Addition and Alterations to  
Glenham Elementary School

Tt Project No. 279180-22004

**BID Addendum No. 3**  
to  
**Drawings and Project Manual**

**September 7, 2023**

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To: BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents:

- Original DRAWINGS dated October 28, 2022,
- PROJECT MANUAL dated October 28, 2022,
- BID ADDENDUM NO. 1 dated August 18, 2023, and
- BID ADDENDUM NO. 2 dated August 29, 2023.

Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This BID ADDENDUM consists of Eight (8) pages and the following:

**REISSUED PROJECT MANUAL SECTIONS**

- BID FORM – GENERAL WORK GC-D1
- BID FORM – GENERAL WORK GC-D2
- SECTION 32 13 13 - CONCRETE PAVING

**NEW PROJECT MANUAL SECTIONS**

- SECTION 22 45 00 - EMERGENCY PLUMBING FIXTURES
- SECTION 32 33 43.13 - SITE SEATING STRUCTURES

**REISSUED DRAWINGS (30 x 42)**

EA400 Enlarged Plans and Details  
FA401 Enlarged Plans and Sections – Area G

**NEW DRAWINGS (11 x 17)**

BA01B Sill Details  
FP01B Partial Revised Fitness Mezzanine E198 Plan

**PROJECT MANUAL MODIFICATIONS**

ITEM 3-C-1: Refer to SECTION 00 11 13 – NOTICE TO BIDDERS.

1. Paragraph 7., AMEND to read as follows:

“Sealed Bids will be received by the Owner until the following dates and times, **Tuesday, September 19, 2023, at 2:00 p.m.** at the District Office Conference Room, 10 Education Drive, Beacon, New York 12508 at which time and place Bids received will be publicly opened and read aloud.”.

ITEM 3-C-2: Refer to SECTION 00 21 13 – INSTRUCTION TO BIDDERS.

1. Paragraph 3., a., AMEND to read as follows:

“1) Bid Opening Date and Time: **Tuesday, September 19, 2023, at 2:00 p.m.**, local time.”.

ITEM 3-C-3: Refer to BID FORM – GENERAL WORK GC-D1

1. DELETE section in its entirety and, ADD new section attached to this Addendum.

ITEM 3-C-4: Refer to BID FORM – GENERAL WORK GC-D2

1. DELETE section in its entirety and, ADD new section attached to this Addendum.

ITEM 3-C-5: Refer to SECTION 01 23 00 – ALTERNATES.

1. Paragraph 3.1, ADD as follows:

**“O. Alternate No. 15: 30 YEAR TOTAL ROOF SYSTEM WARRANTY.**

1. Alternate involves extended warranty as follows:

- a. Site Contract SC-D4: Not applicable.
- b. General Contract GC-D1: At Rombout Middle School in lieu of 20 year warranty as in the Base Bid, provide manufacturer’s 30 year total roofing system warranty as specified in Section "07 53 23 – EPDM Roofing and shown on Drawings EA190.
- c. General Contract GC-D2: At Glenham Elementary School in lieu of 20 year warranty as in the Base Bid, provide manufacturer’s 30 year total roofing system warranty as specified in Section "07 53 23 – EPDM Roofing and shown on Drawing BA400.

- d. Plumbing Contract PC-D1: Not applicable.
- e. Mechanical Contract MC-D1: Not applicable.
- f. Mechanical Contract MC-D2: Not applicable.
- g. Electrical Contract EC-D1: Not applicable.”

### **PROJECT MANUAL MODIFICATIONS - STRUCTURAL**

**ITEM 3-C-6:** Refer to SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

1. Paragraph 1.4, A, 1, ADD the following:

“k. Color pigments for integral color.”

2. Paragraph 1.4, A, ADD the following:

“4. Pigment Color: Provide full palette of manufacturer’s colors from which up to three colors will be chosen. Selected colors are to be mixed per specifications by concrete supplier. The samples are to be 6 inch square minimum. Cured samples will be reviewed and used for final color selection by Architect.”

3. Paragraph 2.5, ADD the following:

“C. Color pigment: ASTM C 979, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, free of carbon black, nonfading, and resistant to lime and other alkalis. Maximum dosage rate 10 percent of the weight of the cementitious materials of the mix.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
  - a. The Bomanite Company, [www.bomanite.com](http://www.bomanite.com)
  - b. Sika USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete.html>”

4. Paragraph 2.13, ADD the following:

“C. Exterior Slabs – Stamped and Colored: Proportion normal-weight concrete mixture as follows:

- 2. Minimum Compressive Strength: 4500 psi at 28 days.
- 3. Maximum Water-Cementitious Materials Ratio: 0.45.
- 4. Slump Limit: 4 inches, plus or minus 1 inch; or 8 inches for concrete with verified slump of 2 to 4 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch.
- 5. Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for 1-1/2-inch nominal maximum aggregate size.
- 6. Color Pigment: Add color pigment to concrete mixture according to manufacturer's written instructions and to result in hardened concrete color consistent with approved mockup.”

### **PROJECT MANUAL MODIFICATIONS – PLUMBING**

**ITEM 3-C-7:** Refer to SECTION 22 13 19 – SANITARY WASTE PIPING SPECIALTIES

1. Paragraph 1.3, A., ADD the following:

“4. Solid interceptors.”

2. Paragraph 2.4., ADD the following:

“A. Solids Interceptors:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Jay R. Smith Mfg Co; a division of Morris Group International; No. 8714ARIO or a comparable product by one of the following:
  - a. Josam Company.
  - b. MIFAB, Inc.
  - c. WATTS; A Watts Water Technologies Company.
  - d. Zurn Industries, LLC.
2. Type: Factory-fabricated interceptor made for removing and retaining sediment from wastewater.
3. Body Material: Cast iron or steel.
4. Interior Separation Device: Baffles and stainless-steel perforated gasket.
5. Interior Lining: Corrosion-resistant enamel.
6. Exterior Coating: Corrosion-resistant enamel.
7. Body Dimensions: 12-1/8 inches wide by 12-3/4 inches high.
8. Inlet and Outlet Size: NPS 1 1/2
9. End Connections: Threaded.
10. Mounting: Above floor.
11. Clear space required above unit for basket removal: 4-1/2 inches.”

ITEM 3-C-8: Refer to SECTION 22 42 16.16 – COMMERCIAL SINKS

1. Paragraph 2.1, D., 2., AMEND to read as follows:

- “2. Faucet(s): Accessible, manual type, wrist-blade-handle mixing valve faucet with integral emergency eyewash. Comply with requirements in “Sink Faucet” Article.
  - a. Number Required: One.
  - b. Mounting: On countertop, in hole(s) provided.”

ITEM 3-C-9: Refer to SECTION 22 42 16.16 – COMMERCIAL SINKS

1. Paragraph 2.2, ADD the following:

- “G. Science Sink Faucets: Accessible, manual type, wrist-blade-handle mixing valve faucet with integral emergency eyewash.
  1. Basis-of Design Product: Subject to compliance with requirements, provide Chicago Faucets; Model No. 8452-ABCP or comparable product by one of the following:
    - a. Bradley Corporation.
    - b. Speakman Company.
  2. Standards: ASME A112.18.1/CSA B125.1, ANSI/ISEA Z358.1, and ADA ANSI/ICC A117.1.
  3. General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and sink receptor.
  4. Body Type: Widespread.
  5. Body Material: General-duty, solid brass.
  6. Finish: Chrome plated.
  7. Maximum Flow Rate: 2.2 gpm.

8. Handle(s): Lever.
9. Mounting Type: Deck, exposed.
10. Spout Type: Swing, shaped tube.
11. Spout Outlet: Aerator.
12. Emergency Eyewash Outlet: 3.3 gpm at 50 psi.
13. Emergency Mixing Valve: EM TMV "A". Refer to Section 22 45 00 "Emergency Plumbing Fixtures."

## **PROJECT MANUAL MODIFICATIONS - MECHANICAL**

**ITEM 3-C-10:** Refer to SECTION 23 05 29 – GENERAL DUTY VALVES FOR HVAC PIPING

1. Part 2 – Products, **ADD** the following:

### "2.10 GATE VALVES

- B. Class 150, RS Bronze Gate Valves:

1. **Manufacturers:** Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. **Hammond Valve.**
- b. **Milwaukee Valve Company.**
- c. **NIBCO INC.**
- d. **Powell Valves.**
- e. **Watts Regulator Co.;** a division of Watts Water Technologies, Inc.

2. Description:

- a. Standard: MSS SP-80, Type 2.
- b. CWP Rating: 300 psig.
- c. Body Material: ASTM B 62, bronze with integral seat and union-ring bonnet.
- d. Ends: Threaded.
- e. Stem: Bronze.
- f. Disc: Solid wedge; bronze.
- g. Packing: Asbestos free.
- h. Handwheel: painted malleable iron

- C. Class 125, OS&Y, Iron Gate Valves:

1. **Manufacturers:** Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. **Hammond Valve.**
- b. **Milwaukee Valve Company.**
- c. **NIBCO INC.**
- d. **Powell Valves.**
- e. **Watts Regulator Co.;** a division of Watts Water Technologies, Inc.

2. Description:

- a. Standard: MSS SP-70, Type I.
- b. NPS 2-1/2 to NPS 12, CWP Rating: 200 psig.
- c. NPS 14 to NPS 24, CWP Rating: 150 psig.
- d. Body Material: ASTM A 126, gray iron with bolted bonnet.
- e. Ends: Flanged.
- f. Trim: Bronze.

- g. Disc: Solid wedge.
- h. Packing and Gasket: Asbestos free.”

2. Paragraph 3.3, ADD the following:

“H. Steam and Steam Condensate Flor Shutoff Service:

- 1. Provide valves designed for 250 F continuous service.
- 2. 2 inch and smaller: Full Port Ball or RS Gate Valves
- 3. 2-1/2” and larger: OSY Gate Valves.”

ITEM 3-C-11: Refer to SECTION 23 22 13 – STEAM AND CONDENSATE HEATING PIPING

1. Paragraph 2.2, ADD the following:

“I. Steam and Condensate Strainers

- 1. General: Cast bronze high tensile body for use with copper piping. Ductile iron, ASTM A 126, Class B cast iron, or steel body for use with steel piping. Provide strainers in size indicated on drawings or same size as connected piping if not specifically indicated, with no higher pressure drop than the design make.
  - a. Removable monel or stainless steel screen suitable for steam service:
    - 1) Strainers 3/4-inch diameter to 3-inches diameter: 1/32-inch perforations.
  - b. Pipe Connections:
    - 1) 2-inch pipe and smaller: Screwed pipe connections.
    - 2) 2-1/2-inch pipe and larger: Flanged pipe connections.
    - 3) Soldered connections not permitted.
  - c. Working Pressure Ratings: Same as fittings in lines where installed but not less than 125 PSI.
- 2. Y-Pattern Strainers:
  - a. Tapped strainer blow-down cap, provide with full size capped ball valve.
  - b. Threaded pressure taps in strainer body before and after strainer screen for connection to EMCS to alarm on excessive differential pressure.
  - c. Design make: The Metraflex Company, Spirax Sarco, Watts, or approved equal.”

2. Paragraph 3.3, ADD the following:

“L. Pipe Line Strainers:

- 1. Install strainers on the supply side of each control valve, pressure reducing valve, solenoid valve, inline pump, and elsewhere as indicated.
- 2. Install nipple and ball valve in blow down connection of strainers 2 inch and larger.”

## **DRAWING MODIFICATIONS – CIVIL**

ITEM 3-C-12: Refer to DRAWING EC120

1. Key plan note #7, AMEND to read as follows:

“Stamped and colored concrete paving – See details...”.

### **DRAWING MODIFICATIONS - ARCHITECTURAL**

ITEM 3-C-13: Refer to DRAWING BA500

1. ADD details 23 and 24 as shown on Drawing BA01B attached to this addendum.

ITEM 3-C-14: Refer to DRAWING BA600

1. Detail 3, AMEND detail references at sill for “18/BA500 SIM” to reference detail “23/BA500”.
1. Door Schedule, AMEND Door V2-1, FRAME SILL to read as follows:  
“12/BA500 AND 22/BA500”.

ITEM 3-C-15: Refer to DRAWING CA131

1. Keyed Plan Notes, ADD the following:
  - “4. Provide marine grade plywood and solid surface window sill with bullnose similar to detail 23/BA500. Verify depth of wall and length of opening in field.”
2. Detail 1, ADD Keyed Plan Note 4 to four (4) window locations in Library/Media Center 6.

ITEM 3-C-16: Refer to DRAWING EA400

1. DELETE drawing in its entirety and, ADD new drawing attached to this addendum.

ITEM 3-C-17: Refer to DRAWING EA930

1. Detail 12, AMEND note “EXISTING SILL” to read as follows:  
“PROVIDE SOLID SURFACE WINDOW SILL  
ON MARINE GRADE PLYWOOD. VERIFY  
DIMENSIONS IN FIELD.”

ITEM 3-C-18: Refer to DRAWING FA401

1. DELETE drawing in its entirety and, ADD new drawing attached to this addendum.

### **DRAWING MODIFICATIONS - PLUMBING**

ITEM 3-C-19: Refer to DRAWING EP401

1. Detail 2, ADD note to read as follows:  
“Refer to Drawing FP01B for revised work in this area.”

ITEM 3-C-20: Refer to DRAWING EP402

1. Plumbing Fixture Schedule, Sink "D" Description, AMEND to read as follows:

"Accessible, epoxy resin sink w/ manual type, wrist-blade-handle mixing valve faucet with integral emergency eyewash, supplies, emergency mixing valve, PP sink outlet fitting and corrosion resistant trap."

ITEM 3-C-21: Refer to DRAWING FP401

1. Plumbing Fixture Schedule, Sink "D" Description, AMEND to read as follows:

"Accessible, epoxy resin sink w/ manual type, wrist-blade-handle mixing valve faucet with integral emergency eyewash, supplies, emergency mixing valve, PP sink outlet fitting and corrosion resistant trap."

### **DRAWING MODIFICATIONS - MECHANICAL**

ITEM 3-C-22: Refer to DRAWING AM500

1. Detail 2, ADD note to read as follows:

"Provide line size wye strainer on steam pipe after first union and before (or on inlet side of) control valve."

ITEM 3-C-23: Refer to DRAWING DM500

1. Detail 2, ADD note to read as follows:

"Provide line size wye strainer on steam pipe after first union and before (or on inlet side of) control valve."

### **PROJECT MANUAL MODIFICATIONS – SITE**

ITEM 3-C-24: Refer to SECTION 32 13 13 - CONCRETE PAVING

1. DELETE section in its entirety and, ADD new section attached to this Addendum.

**END OF ADDENDUM**



500 Bi-County Blvd., Suite 104  
Farmingdale, NY 11735  
(631) 847-7762  
  
Farmingdale, New York  
Albany, New York  
Ithaca, New York

**BID FROM** (Bidder's Name) : \_\_\_\_\_  
  
(Address) : \_\_\_\_\_  
\_\_\_\_\_  
  
Bidder's Telephone : \_\_\_\_\_  
  
Bidder's Facsimile (Fax) : \_\_\_\_\_  
  
Bidder's E-mail Address : \_\_\_\_\_  
(if applicable)

**BID FORM**  
**(submit in duplicate)**

**CONTRACT: GENERAL WORK GC-D1**

**PROJECT TITLE: RECONSTRUCTION PROJECT D**

**DATE: OCTOBER 28, 2022**

**PROJECT NO.: 279180-22004**

**BID TO:** Beacon City School District  
10 Education Drive  
Beacon, New York 12508

The Bidder hereby certifies that it has examined and fully understands the requirements and intent of the Bidding Documents, including the Bidding Requirements and proposed Contract Documents; and proposes to furnish all labor, materials, and equipment necessary to complete the Work on, or before, the dates specified in the Contract Documents for the **BASE BID** sum of:

\_\_\_\_\_ (words)  
  
\_\_\_\_\_ (\$ \_\_\_\_\_) (figures)

Show all amounts in both words and figures; in the event of a discrepancy between amounts written in words and figures, the amount written in words shall govern.

**Refer to Division 01 Section "Allowances" for description of allowances to be included in the Base Bid above.**

**ALTERNATES**

Indicate in the spaces provided below the amount to be added to or the amount to be deducted from (as applicable) the Base Bid if the Owner accepts the following Alternates described in Division 01 Section "Alternates".

Include in the amount of each Alternate, all labor, materials, overhead and profit, modification of Work specified in the Contract Documents, and additional work that may be required by acceptance of the Alternate.

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**ALTERNATE NO. 7 - ROMBOUT MIDDLE SCHOOL CORRIDOR CEILINGS AND LIGHTING REPLACEMENT AREA D, FIRST AND SECOND FLOOR**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 8 - ROMBOUT MIDDLE SCHOOL CORRIDOR CEILINGS AND LIGHTING REPLACEMENT AREA F**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 9 - ROMBOUT MIDDLE SCHOOL CORRIDOR LIGHTING REPLACEMENT AREA A**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 10 - ROMBOUT MIDDLE SCHOOL CORRIDOR CEILINGS AND LIGHTING REPLACEMENT AREA B, SECOND FLOOR**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 15 - 30 YEAR TOTAL ROOF SYSTEM WARRANTY**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**LIST OF ADDENDA RECEIVED**

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

**BID ATTACHMENTS**

Enclosed with this Bid are the following attachments:

- Attachment #1 - Non-Collusive Bidding Certification.
- Attachment #2 - Certified Corporate Resolution.
- Attachment #3 – Iranian Energy Divestment Certification
- Attachment #4 – Certification on Violations
- Attachment #5 – Subcontractors List
- Attachment #6 – Bidder’s Qualifications
- Attachment #7 – Insurance Certification

**BID SECURITY**

Enclosed with this Bid is bid security in the amount of five percent of the Base Bid.

**EXECUTION OF CONTRACT**

If written notice of the acceptance of this Bid is transmitted to the undersigned within 45 days following the Bid opening, the undersigned will, within 10 days following the Notice of Award, execute and transmit a Contract in the form as required by the Architect.

This Bid may be withdrawn at any time prior to the Bid opening.

**SIGNATURE**

( ) NAME OF BIDDER (Corporate Name)  
 ( )  
 ( )  
 ( Corporate Seal ) \_\_\_\_\_  
 ( ) SIGNATURE (Corporate Officer)  
 ( )  
 ( ) \_\_\_\_\_  
 ( )  
 ( )  
 ( ) DATE: \_\_\_\_\_

Federal Employer’s Identification Number: \_\_\_\_\_

**BID FORM**  
**ATTACHMENT #1**

**GENERAL CONDITIONS TO BID**  
**NON-COLLUSIVE BIDDING CERTIFICATION**

No bid will be accepted that does not have this form completely executed.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

- (a) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or any competitor;
- (b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;
- (c) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition;
- (d) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as to the person signing in its behalf;
- (e) That attached hereto (if corporate bidder) is a certified copy of resolution authorizing the execution of this certified by the signature of this bid or proposal in behalf of the corporate bidder.

\_\_\_\_\_  
(Individual)

\_\_\_\_\_  
(Corporation)

Dated: \_\_\_\_\_ By \_\_\_\_\_  
(Signature of Officer)

**This Non-Collusive Bidding Certificate must be submitted with the bid.**

**BID FORM**  
**ATTACHMENT #2**

**CERTIFIED CORPORATE RESOLUTION**

RESOLVED THAT \_\_\_\_\_ be authorized to sign and submit the bid or proposal of this corporation for the following project:

\_\_\_\_\_

\_\_\_\_\_

and to include in such bid or proposal the certificate as to non-collusion required by section one hundred three-d (103-d) of the general municipal law as to the act and deed of such corporation, and for any inaccuracies or mis-statements in such certificate this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution and adopted by

\_\_\_\_\_ at a meeting of its board of directors held on the  
\_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ .

\_\_\_\_\_  
(Secretary)

**BID FORM**  
**ATTACHMENT #3**

**IRANIAN ENERGY DIVESTMENT CERTIFICATION**

**Pursuant to Section 103-g  
Of the New York State  
General Municipal Law**

- A. By submission of this bid/proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid/Proposal shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the bidder/proposer cannot make the foregoing certification set forth in Paragraph A above, the bidder/proposer shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid/proposal is made, or his designee, may award a bid/proposal, on a case by case business under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder/Proposer has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
  2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

**BID FORM**  
**ATTACHMENT #4**

**CERTIFICATION ON VIOLATIONS**

\_\_\_\_\_, a representative of \_\_\_\_\_, hereby swears to and certifies that, to the best of his or her knowledge and belief:

1. Neither \_\_\_\_\_, nor any substantially owned-affiliated entity of the Bidder (collectively the "Bidder"), has been found to be in violation of the Davis-Bacon Act pursuant to 40 U.S.C. 3144, the Copeland Act pursuant to 18 U.S.C. 874 and 40 U.S.C. 3145 or the Contract Work Hours and Safety Standards Act pursuant to 40 U.S.C. 332, or their New York State counterparts.

True       False

If False is selected, information for questions 2 and 3 must be provided. If True is selected questions 2 and 3 are not applicable, continue to question 4.

2. If the Bidder has been found to be in violation of the Davis-Bacon Act, the Copeland Act, the Contract Work Hours and Safety Standards Act, or any of their New York State counterparts, state the name of the agency, the date of the violation, the nature of the violation and any consequence of the violation, including warnings, fines and debarments below.

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3. The Bidder is not currently under investigation by any local, state or federal government agency. If Bidder is under investigation, state the name of the agency, the date of the alleged violation and the nature of the alleged violation below.

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4. The Bidder's Dun & Bradstreet D-U-N-S number is \_\_\_\_\_.

5. I have authority to execute this certification, knowing it will be relied upon by the Owner of this Project.

\_\_\_\_\_  
Name Title

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

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



**BID FORM ATTACHMENT # 6**

NAME OF BIDDER \_\_\_\_\_

**BIDDER'S QUALIFICATIONS FORM****THIS FORM MUST BE NOTARIZED AND SUBMITTED WITH THE BID**

All questions must be answered and the data given must be clear and comprehensive. If necessary, questions may be answered on separate attached sheet.

1. Name of Bidder:
2. Permanent main office address:
3. When organized:
4. If a corporation, where incorporated:
5. How many years have you been engaged in the contracting business under your present firm or trade name?
6. Contracts on hand: (List these, showing amount of each contract and the appropriate anticipated dates of completion.)
7. General character of work performed by your company:
8. Have you ever failed to complete any work awarded to you?  
If so, where and why?
9. Have you ever defaulted on a contract?  
If so, where and why?
10. List the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed.
11. List your major equipment available for this Contract.
12. List your experience in work similar to this project.
13. List the background and experience of the principal members of your organization, including officers.
14. List the work to be performed by Subcontractors and summarize the dollar value of each Subcontract.
15. Credit available: \$
16. Give bank reference:



**BID FORM ATTACHMENT #7**

Beacon City School District  
10 Education Drive  
Beacon, NY 12508

**INSURANCE CERTIFICATION FORM**  
**THIS FORM MUST BE SUBMITTED WITH THE BID**

**Project Number: 279180-22004**    **Project Name: Reconstruction to: Beacon CSD**

Your Insurance representative must complete the form below in order to be considered for the award of this Bid or Project, and it is important that you complete the Bidder's Acknowledgement section of this form (below).

Please note that a Standard Certificate of Insurance must accompany your Bid submission in order for your Bid to be considered.

**Insurance Representative's Acknowledgement:**

We have reviewed the insurance requirements set forth in the Bid and are capable of providing such insurance to our insured in accordance with such requirements in the event the Contract is awarded to our insured and provided our insured pays the appropriate premium.

Insurance Representative: \_\_\_\_\_

Address: \_\_\_\_\_

Are you an agent for the companies providing coverage? Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_  
Insurance Representative

\_\_\_\_\_  
Date

**Bidder's Acknowledgement:**

I acknowledge that I have received the insurance requirements of this Bid and have considered the costs, if any, of procuring the required insurance and will be able to supply the insurance required in accordance with the Bid, if it is awarded. I understand that a Standard Certificate of Insurance must be submitted with my Bid; and if it is not, the Beacon City School District may reject my Bid and award to the next lowest Bidder.

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

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

\_\_\_\_\_  
Bidder's Signature



500 Bi-County Blvd., Suite 104  
Farmingdale, NY 11735  
(631) 847-7762  
  
Farmingdale, New York  
Albany, New York  
Ithaca, New York

**BID FROM** (Bidder's Name) : \_\_\_\_\_  
  
(Address) : \_\_\_\_\_  
\_\_\_\_\_  
  
Bidder's Telephone : \_\_\_\_\_  
  
Bidder's Facsimile (Fax) : \_\_\_\_\_  
  
Bidder's E-mail Address : \_\_\_\_\_  
(if applicable)

**BID FORM**  
**(submit in duplicate)**

**CONTRACT: GENERAL WORK GC-D2**

**PROJECT TITLE: RECONSTRUCTION PROJECT D**

**DATE: OCTOBER 28, 2022**

**PROJECT NO.: 279180-22004**

**BID TO:** Beacon City School District  
10 Education Drive  
Beacon, New York 12508

The Bidder hereby certifies that it has examined and fully understands the requirements and intent of the Bidding Documents, including the Bidding Requirements and proposed Contract Documents; and proposes to furnish all labor, materials, and equipment necessary to complete the Work on, or before, the dates specified in the Contract Documents for the **BASE BID** sum of:

\_\_\_\_\_ (words)  
  
\_\_\_\_\_ (\$ \_\_\_\_\_) (figures)

Show all amounts in both words and figures; in the event of a discrepancy between amounts written in words and figures, the amount written in words shall govern.

**Refer to Division 01 Section "Allowances" for description of allowances to be included in the Base Bid above.**

**ALTERNATES**

Indicate in the spaces provided below the amount to be added to or the amount to be deducted from (as applicable) the Base Bid if the Owner accepts the following Alternates described in Division 01 Section "Alternates".

Include in the amount of each Alternate, all labor, materials, overhead and profit, modification of Work specified in the Contract Documents, and additional work that may be required by acceptance of the Alternate.

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**ALTERNATE NO. 1 - RECONSTRUCTION OF GLENHAM ELEMENTARY SCHOOL BOYS' T12B AND GIRLS' T12A BATHROOMS**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 2 - GLENHAM ELEMENTARY SCHOOL ATTENDANCE OFFICE E6 ALTERATIONS**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 3 - GLENHAM ELEMENTARY SCHOOL CORRIDOR LIGHTING REPLACEMENT**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 4 - GLENHAM ELEMENTARY SCHOOL STUDENT CUBBIES REPLACEMENT**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) OR (figures)

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 5 - SOUTH AVE ELEMENTARY SCHOOL CORRIDOR-STAIR CEILINGS AND LIGHTING REPLACEMENT**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) OR (figures)

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 11 - BEACON HIGH SCHOOL FITNESS CENTER ALTERATIONS**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) OR (figures)

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 12 - BEACON HIGH SCHOOL SCIENCE ROOM C150**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) OR (figures)

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 13 - BEACON HIGH SCHOOL SCIENCE ROOM C125**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 14 - BEACON HIGH SCHOOL TV STUDIO, CONTROL AND EDITING SUITE ALTERATIONS**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**ALTERNATE NO. 15- 30 YEAR TOTAL ROOF SYSTEM WARRANTY**

**ADD** to the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

**OR**

**DEDUCT** from the Base Bid the sum of:

\_\_\_\_\_ ( \$ \_\_\_\_\_ )  
(words) (figures)

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**LIST OF ADDENDA RECEIVED**

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Date \_\_\_\_\_ No. \_\_\_\_\_ Date \_\_\_\_\_

**BID ATTACHMENTS**

Enclosed with this Bid are the following attachments:

- Attachment #1 - Non-Collusive Bidding Certification.
- Attachment #2 - Certified Corporate Resolution.
- Attachment #3 – Iranian Energy Divestment Certification
- Attachment #4 – Certification on Violations
- Attachment #5 – Subcontractors List
- Attachment #6 – Bidder’s Qualifications
- Attachment #7 – Insurance Certification

**BID SECURITY**

Enclosed with this Bid is bid security in the amount of five percent of the Base Bid.

**EXECUTION OF CONTRACT**

If written notice of the acceptance of this Bid is transmitted to the undersigned within 45 days following the Bid opening, the undersigned will, within 10 days following the Notice of Award, execute and transmit a Contract in the form as required by the Architect.

This Bid may be withdrawn at any time prior to the Bid opening.

**SIGNATURE**

( ) NAME OF BIDDER (Corporate Name)  
 ( )  
 ( )  
 ( Corporate Seal ) \_\_\_\_\_  
 ( ) SIGNATURE (Corporate Officer)  
 ( )  
 ( ) \_\_\_\_\_  
 ( )  
 ( )  
 ( ) DATE: \_\_\_\_\_

Federal Employer’s Identification Number: \_\_\_\_\_

**BID FORM**  
**ATTACHMENT #1**

**GENERAL CONDITIONS TO BID**  
**NON-COLLUSIVE BIDDING CERTIFICATION**

No bid will be accepted that does not have this form completely executed.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

- (a) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or any competitor;
- (b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;
- (c) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition;
- (d) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as to the person signing in its behalf;
- (e) That attached hereto (if corporate bidder) is a certified copy of resolution authorizing the execution of this certified by the signature of this bid or proposal in behalf of the corporate bidder.

\_\_\_\_\_  
(Individual)

\_\_\_\_\_  
(Corporation)

Dated: \_\_\_\_\_ By \_\_\_\_\_  
(Signature of Officer)

**This Non-Collusive Bidding Certificate must be submitted with the bid.**

**BID FORM**  
**ATTACHMENT #2**

**CERTIFIED CORPORATE RESOLUTION**

RESOLVED THAT \_\_\_\_\_ be authorized to sign and submit the bid or proposal of this corporation for the following project:

\_\_\_\_\_

\_\_\_\_\_

and to include in such bid or proposal the certificate as to non-collusion required by section one hundred three-d (103-d) of the general municipal law as to the act and deed of such corporation, and for any inaccuracies or mis-statements in such certificate this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution and adopted by

\_\_\_\_\_ at a meeting of its board of directors held on the  
\_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ .

\_\_\_\_\_  
(Secretary)

**BID FORM**  
**ATTACHMENT #3**

**IRANIAN ENERGY DIVESTMENT CERTIFICATION**

**Pursuant to Section 103-g  
Of the New York State  
General Municipal Law**

- A. By submission of this bid/proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid/Proposal shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the bidder/proposer cannot make the foregoing certification set forth in Paragraph A above, the bidder/proposer shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid/proposal is made, or his designee, may award a bid/proposal, on a case by case business under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder/Proposer has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
  2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

**BID FORM**  
**ATTACHMENT #4**

**CERTIFICATION ON VIOLATIONS**

\_\_\_\_\_, a representative of \_\_\_\_\_, hereby swears to and certifies that, to the best of his or her knowledge and belief:

1. Neither \_\_\_\_\_, nor any substantially owned-affiliated entity of the Bidder (collectively the "Bidder"), has been found to be in violation of the Davis-Bacon Act pursuant to 40 U.S.C. 3144, the Copeland Act pursuant to 18 U.S.C. 874 and 40 U.S.C. 3145 or the Contract Work Hours and Safety Standards Act pursuant to 40 U.S.C. 332, or their New York State counterparts.

True     False

If False is selected, information for questions 2 and 3 must be provided. If True is selected questions 2 and 3 are not applicable, continue to question 4.

2. If the Bidder has been found to be in violation of the Davis-Bacon Act, the Copeland Act, the Contract Work Hours and Safety Standards Act, or any of their New York State counterparts, state the name of the agency, the date of the violation, the nature of the violation and any consequence of the violation, including warnings, fines and debarments below.

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3. The Bidder is not currently under investigation by any local, state or federal government agency. If Bidder is under investigation, state the name of the agency, the date of the alleged violation and the nature of the alleged violation below.

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4. The Bidder's Dun & Bradstreet D-U-N-S number is \_\_\_\_\_.

5. I have authority to execute this certification, knowing it will be relied upon by the Owner of this Project.

\_\_\_\_\_  
Name Title

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

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



**BID FORM ATTACHMENT # 6**

NAME OF BIDDER \_\_\_\_\_

**BIDDER'S QUALIFICATIONS FORM****THIS FORM MUST BE NOTARIZED AND SUBMITTED WITH THE BID**

All questions must be answered and the data given must be clear and comprehensive. If necessary, questions may be answered on separate attached sheet.

1. Name of Bidder:
2. Permanent main office address:
3. When organized:
4. If a corporation, where incorporated:
5. How many years have you been engaged in the contracting business under your present firm or trade name?
6. Contracts on hand: (List these, showing amount of each contract and the appropriate anticipated dates of completion.)
7. General character of work performed by your company:
8. Have you ever failed to complete any work awarded to you?  
If so, where and why?
9. Have you ever defaulted on a contract?  
If so, where and why?
10. List the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed.
11. List your major equipment available for this Contract.
12. List your experience in work similar to this project.
13. List the background and experience of the principal members of your organization, including officers.
14. List the work to be performed by Subcontractors and summarize the dollar value of each Subcontract.
15. Credit available: \$
16. Give bank reference:



**BID FORM ATTACHMENT #7**

Beacon City School District  
10 Education Drive  
Beacon, NY 12508

**INSURANCE CERTIFICATION FORM**  
**THIS FORM MUST BE SUBMITTED WITH THE BID**

**Project Number: 279180-22004**    **Project Name: Reconstruction to: Beacon CSD**

Your Insurance representative must complete the form below in order to be considered for the award of this Bid or Project, and it is important that you complete the Bidder's Acknowledgement section of this form (below).

Please note that a Standard Certificate of Insurance must accompany your Bid submission in order for your Bid to be considered.

**Insurance Representative's Acknowledgement:**

We have reviewed the insurance requirements set forth in the Bid and are capable of providing such insurance to our insured in accordance with such requirements in the event the Contract is awarded to our insured and provided our insured pays the appropriate premium.

Insurance Representative: \_\_\_\_\_

Address: \_\_\_\_\_

Are you an agent for the companies providing coverage? Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_  
Insurance Representative

\_\_\_\_\_  
Date

**Bidder's Acknowledgement:**

I acknowledge that I have received the insurance requirements of this Bid and have considered the costs, if any, of procuring the required insurance and will be able to supply the insurance required in accordance with the Bid, if it is awarded. I understand that a Standard Certificate of Insurance must be submitted with my Bid; and if it is not, the Beacon City School District may reject my Bid and award to the next lowest Bidder.

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

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

\_\_\_\_\_  
Bidder's Signature

## **SECTION 22 45 00 - EMERGENCY PLUMBING FIXTURES**

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Water-tempering equipment.

#### 1.2 DEFINITIONS

- A. Accessible Fixture: Emergency plumbing fixture that can be approached, entered, and used by people with disabilities.
- B. Plumbed Emergency Plumbing Fixture: Fixture with fixed, potable-water supply.
- C. Tepid: Between 60 and 100 deg F.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include flow rates and capacities, furnished specialties, and accessories.
  - 1. Hot-and cold-water, water-tempering equipment – EM TMV “A”.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Field Quality-Control Submittals:
  - 1. Field quality-control reports.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For emergency plumbing fixtures.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Comply with ANSI/ISEA Z358.1 for emergency plumbing fixtures including third-party certification of fixtures.

- B. Comply with ASSE 1071 for temperature-actuated mixing valves for plumbed emergency fixtures.
- C. Comply with ASME A112.18.1/CSA B125.1 for water-supply fittings.
- D. Comply with ASME A112.18.2/CSA B125.2 for plumbing waste fittings.
- E. Comply with NSF 61 and NSF 372 for fixture materials that will be in contact with potable water.
- F. Comply with requirements in ICC A117.1 for plumbing fixtures for people with disabilities.

## 2.2 WATER-TEMPERING EQUIPMENT

### A. Eyewash Hot- and Cold-Water, Water-Tempering Equipment - EM TMV "A":

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bradley Corporation; Navigator No. S19-2000 (EFX8) or comparable product by one of the following:
  - a. Armstrong International, Inc.
  - b. Haws Corporation.
  - c. Lawler Manufacturing Co., Inc.
  - d. Speakman Company.
2. Description: Factory-fabricated equipment with thermostatic mixing valve.
  - a. Thermostatic Mixing Valve: Designed to provide 85 deg F tepid, potable water at emergency plumbing fixtures, to maintain temperature at plus or minus 3 deg F throughout required 15-minute test period, and in case of unit failure to continue cold-water flow, with union connections, controls, metal piping.
3. Pressure Rating: 125 psig.
4. Type: Exposed-mounted, compact body design, thermostatically controlled, emergency fixture thermostatic mixing valve.
5. Material: Bronze body with corrosion-resistant interior components.
6. Connections: Threaded inlets and outlet.
7. Accessories: Manual temperature control, check stops on hot- and cold-water supplies, and adjustable, temperature-control handle.
8. Valve Finish: Rough bronze.
9. Piping Finish: Copper.

## 2.3 TESTING EQUIPMENT

### A. Eyewash Test Gauge:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bradley Corporation; No. 269-1444 or comparable product by one of the following:
  - a. Acorn Safety; a division of Acorn Engineering Company.

- b. Encon Safety Products.
  - c. Guardian Equipment Co.
  - d. Haws Corporation.
  - e. Speakman Company.
  - f. WaterSaver Faucet Co.
2. Transparent compliance gauge with testing instructions printed on the test gauge and integral 8-inch scale to assist in evaluation of spray pattern height.
3. Illustrations compliant with American National Standard Z358.1-2009.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine roughing-in for water piping systems to verify actual locations of piping connections before plumbed emergency plumbing fixture installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Beginning installation constitutes Contractor's acceptance of substrates and conditions.

### 3.2 INSTALLATION OF EMERGENCY PLUMBING FIXTURE

- A. Assemble emergency plumbing fixture piping, fittings, control valves, and other components.
- B. Fasten fixtures to substrate.
- C. Install shutoff valves in water-supply piping to fixtures. Comply with requirements for supply fittings specified in Section 22 42 16.16 "Commercial Sinks."

### 3.3 PIPING CONNECTIONS

- A. Connect hot- and cold-water-supply piping to hot- and cold-water, water-tempering equipment. Connect output from water-tempering equipment to emergency plumbing fixtures. Comply with requirements for hot- and cold-water piping specified in Section 22 11 16 "Domestic Water Piping."
- B. Where installing piping adjacent to emergency plumbing fixtures, allow space for service and maintenance of fixtures.

### 3.4 IDENTIFICATION

- A. Install equipment nameplates or equipment markers on emergency plumbing fixtures and equipment and equipment signs on water-tempering equipment. Comply with requirements for identification materials specified in Section 22 05 53 "Identification for Plumbing Piping and Equipment."

- B. Install valve function signage on isolation valves serving emergency fixtures. Comply with requirements for identification materials specified in Section 22 05 53 "Identification for Plumbing Piping and Equipment."

### 3.5 FIELD QUALITY CONTROL

- A. Mechanical-Component Testing: After plumbing connections have been made, test for compliance with requirements. Verify ability to achieve indicated capacities.
- B. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection.
  - 2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
  - 3. Operational Test: Start units to confirm proper unit operation.
  - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
  - 5. Emergency plumbing fixtures and water-tempering equipment will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

### 3.6 ADJUSTING

- A. Operate and adjust emergency plumbing fixtures and controls. Replace damaged and malfunctioning fixtures and controls.
- B. Adjust or replace fixture flow regulators for proper flow.
- C. Adjust equipment temperature settings.

### 3.7 CLEANING AND PROTECTION

- A. Clean emergency plumbing fixtures with manufacturers' recommended cleaning methods and materials.
- B. Install protective covering for installed emergency plumbing fixtures and fittings.
- C. Do not allow use of emergency plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 22 45 00

## **SECTION 32 13 13 - CONCRETE PAVING**

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

A. Section Includes:

1. Sidewalks.
2. Joint Sealant.
3. Concrete Sealer.
4. Curing materials.
5. Joint forming materials.
6. Joint Filler.
7. Sealers
8. Colored Concrete.
9. Imprinted and Textured Concrete.

B. Related Sections:

1. Section 03 30 00 "Cast-in-Place Concrete" for general concrete mix, materials, installation and building-related concrete requirements.

#### 1.3 SUBMITTALS, GENERAL

- A. General: Submit all action submittals and informational submittals required by this Section concurrently.
- B. Refer to Div 03 concrete section for concrete submittal requirements, material certificates, installer qualification data and other required action and informational submittals.

#### 1.4 ACTION SUBMITTALS

- A. Provide Product Data and Testing Information for each type of product indicated.
  1. Forms
  2. Form release agent
  3. Sealer
  4. Joint Sealant
  5. Curing Compound

6. Expansion Joint Material
7. Expansion Joint Forming System
8. Concrete Color Materials, Sealant, Curing Compound and Joint Sealant
9. Concrete Stamping Materials and Release Agents

#### 1.5 SHOP DRAWINGS

- A. Jointing Plan: Provide shop drawing showing concrete joint layout, specifically indicating the locations of expansion, tooled and control joints.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer. (Refer to Div 03 concrete section for requirements.)
- B. Qualification data for colored concrete supervisor.
- C. Qualification data for colored concrete installer.

#### 1.7 QUALITY ASSURANCE

- A. For Installer and Manufacturer requirements, refer to Div 03 concrete section.
- B. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  1. Build mockups of full-thickness sections of concrete paving to demonstrate typical joints; surface finish, texture, and color; curing; and standard of workmanship in the location and of the size indicated where directed by Architect and not less than 96 inches by 96 inches.
  2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. For colored, textured and/or stamped concrete installer:
  1. Provide qualified supervisor that has completed at least five colored, stamped projects similar in scope to this project. Provide minimum of three references for above projects.
  2. Colored textured stamped concrete installer to be certified by approved concrete color manufacturer. Provide copy of certification to Architect.
- D. Mock-up for Stamped and Colored Concrete: Provide 48"x48" minimum size mock-ups for color, texture and finish. Location to be designated by Architect and Owner. Do not proceed with remaining work until workmanship, color and finish are approved by Architect. Refinish mock-ups as required to produce acceptable work.

## 1.8 PREINSTALLATION MEETING

- A. Concrete Paving Preinstallation Conference: Conduct conference at Project site.
  - 1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place architectural concrete to attend, including the following:
    - a. Contractor's superintendent.
    - b. Independent testing agency responsible for concrete design mixtures.
    - c. Ready-mix concrete manufacturer.
    - d. Cast-in-place architectural concrete subcontractor.
  - 2. Review concrete finishes and finishing, cold- and hot-weather concreting procedures, curing procedures, construction joints, forms and form-removal limitations, reinforcement accessory installation, concrete repair procedures, and protection of cast-in-place architectural concrete.

## 1.9 PROJECT CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

## PART 2 - PRODUCTS

2.1 Refer to Div 03 concrete section for products, unless noted below.

### 2.2 FORMS

- A. Form Materials: Metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.
  - 1. Use flexible or uniformly curved forms for curves with a radius of 100 feet or less. Do not use notched and bent forms.
- B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

### 2.3 CONCRETE MATERIALS

- A. Refer to Div 03 concrete section for cementitious material, aggregates, admixtures, and other concrete materials.

## 2.4 FIBER REINFORCEMENT

- A. Refer to Div 03 concrete section for fiber reinforcement materials.

## 2.5 CURING MATERIALS

- A. Standard Concrete Curing Compound: Clear, Waterborne, Membrane-Forming Curing Compound in accordance with ASTM C 309, Type 1-D, Class B, dissipating, with fugitive dye. Minimum 2-coats required.
- B. Colored / Stamped Concrete Curing Compound: Solvent-Borne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.
  - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
  - 2. BASF Construction Chemicals - Building Systems; Kure-N-Seal 25 LV.
  - 3. ChemMasters; Spray-Cure & Seal Plus.
  - 4. Meadows, W. R., Inc.; CS-309/30.

## 2.6 SEALER

- A. Standard Concrete Sealer: Penetrating, Silane Sealer: Single component, 40% silane, waterbased slab sealer that forms chemical bond to the concrete. VOC compliant.
  - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. BASF Construction Chemicals; MasterProtect H 400.
    - b. Chem Masters; Aquanil Plus 40.
    - c. Dayton Superior Corporation; Weather Worker 40% J29WB.
- B. Colored/Stamped Concrete Sealer: Solvent-Borne, Membrane-Forming Sealing Compound: To be compatible with integral and color-hardened concrete system.
  - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. BASF Construction Chemicals, [www.master-builders-solutions.basf.us/en-us/contact](http://www.master-builders-solutions.basf.us/en-us/contact)
    - b. The Bomanite Company, [www.bomanite.com](http://www.bomanite.com)
    - c. Brickform, [www.brickform.com](http://www.brickform.com)
    - d. Sica USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete> (formerly L.M Scofield Company)

## 2.7 JOINT SEALANT

- A. Joint Sealant: Two-part, elastomeric polyurethane or polysulfide-based pourable self-leveling joint sealant complying with ASTM C 920, Type M, Grade P, Class 25, NT and CRD-C-506, Type 1, Classes A & B.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. BASF Building Systems; Sonolastic SL 2.
      - 1) Color for uncolored concrete: Limestone.
      - 2) Color for colored concrete: Custom color to match colored concrete.
    - b. W.R. Meadows, Inc.; Deck-O-Seal Sealant.
      - 1) Color for uncolored concrete: Stone Gray.
      - 2) Color for colored concrete: Custom color to match colored concrete.

## 2.8 EXPANSION JOINT MATERIALS

- A. Expansion/Isolation-Joint-Filler Strips: ½-inch rigid, extruded polystyrene insulation (at exterior walls) ASTM D 1751; asphalt-saturated cellulosic fiber, or ASTM D 1752.
- B. Plastic Expansion Joint Forming System (“Zip-Strip”): Plastic joint form plus cap.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following: (inserted space)
    - a. W.R. Meadows, Inc.; Snap-Cap.

## 2.9 INTEGRALLY COLORED CONCRETE

- A. Color Pigment: Refer to Div 03 concrete section for integral concrete coloring product requirements.
1. Color: As selected by Architect from manufacturer's full range.
- B. Colored Concrete Sealer: Solvent-Borne, Membrane-Forming Sealing Compound - To be compatible with integral and color-hardened concrete system.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. The Bomanite Company, [www.bomanite.com](http://www.bomanite.com)
    - b. Brickform, [www.brickform.com](http://www.brickform.com)
    - c. Sica USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete> (formerly L.M Scofield Company)
- C. Colored Concrete Curing Compound: Solvent-Borne, Membrane-Forming Curing and Sealing Compound in accordance with ASTM C 1315, Type 1, Class A. For use with stamped concrete only.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
  - a. BASF Construction Chemicals - Building Systems; Kure-N-Seal 25 LV.
  - b. ChemMasters; Spray-Cure & Seal Plus.
  - c. Meadows, W. R., Inc.; CS-309/30.

## 2.10 PIGMENTED COLOR HARDENER

- A. Pigmented Mineral Hardener: Factory-packaged, dry combination of portland cement, graded quartz aggregate, color pigments, and plasticizing admixture. Use color pigments that are finely ground, nonfading mineral oxides interground with cement.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
  - a. The Bomanite Company, [www.bomanite.com](http://www.bomanite.com)
  - b. Brickform, [www.brickform.com](http://www.brickform.com)
  - c. Sica USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete> (formerly L.M Scofield Company)

2. Color: As selected by Architect from manufacturer's full range.

- B. Pigmented Mineral Dry-Shake Hardener: Factory-packaged, dry combination of portland cement, graded quartz aggregate, color pigments, and plasticizing admixture. Use color pigments that are finely ground, nonfading mineral oxides interground with cement.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
  - a. BASF Construction Chemicals, LLC; Mastercron.
  - b. ChemMasters; ConColor.
  - c. Dayton Superior Corporation; Quartz Tuff.
  - d. Lambert Corporation; COLORHARD.
  - e. Sica USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete> (formerly L.M Scofield Company)

2. Color: As selected by Architect from manufacturer's full range.

## 2.11 IMPRINTED CONCRETE MATERIALS

- A. Imprinting Tools: Mat type imprinting tools for texturing freshly placed concrete, in multiple patterns and textures as selected by Architect from full range of patterns and textures.

1. Patterns and textures: The stamped concrete will mimic the look of a boardwalk. The concrete stamp shall produce 6 inch wide wood plank with nail pattern.
2. Submit product information for stamp and touch up tool for approval by the Architect.

- B. Imprinted Concrete Liquid Form Release Agent: Dissipative form release agent, manufactured by or compatible with coloring system.
  - 1. Finish: Clear or “antique” finish, as chosen by Architect.
  - 2. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
    - a. The Bomanite Company, [www.bomanite.com](http://www.bomanite.com)
    - b. Brickform, [www.brickform.com](http://www.brickform.com)
    - c. Sica USA, <https://usa.sika.com/en/construction/concrete/decorative-concrete> (formerly L.M Scofield Company)

## 2.12 CONCRETE MIXTURES

- A. Refer to Div 03 concrete section for concrete mixtures.
- B. Color Pigment: Add color pigment to concrete mixture according to manufacturer's written instructions and to result in hardened concrete color consistent with approved mockup.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.
- B. Proof-roll prepared subbase surface below concrete paving in accordance with Section 31 20 00 “Earth Moving”. Identify soft pockets and areas of excess yielding.
  - 1. Completely proof-roll subbase in one direction and repeat in perpendicular direction.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Beginning installation constitutes Contractor’s acceptance of substrates and conditions.

### 3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

### 3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release agent.

### 3.4 STEEL REINFORCEMENT

- A. Refer to Div 03 concrete section for steel reinforcement.

### 3.5 JOINTS

- A. General: Form construction, expansion/isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
  - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
  - 1. Keyed Joints: Provide preformed keyway-section forms or bulkhead forms with keys unless otherwise indicated. Embed keys at least 1-1/2 inches into concrete.
  - 2. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.
- C. Expansion / Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
  - 1. Locate expansion joints at intervals of 30 feet maximum unless otherwise indicated.
  - 2. Extend joint fillers full width and depth of joint.
  - 3. Plastic Expansion Joint Forming System (“Zip Strip”). Install so that cap of channel is flush with surrounding concrete pavement. Install per manufacturer’s installation instructions. Remove plastic cap after concrete is cured.
  - 4. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
  - 5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
- D. Control / Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows, to match jointing of existing adjacent concrete paving unless otherwise noted:
  - 1. Tooled / Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch radius. Repeat grooving of

contraction joints after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

- a. Tolerance: Ensure that grooved joints are within 3 inches either way from centers of dowels.
2. Tooling / Grooved and Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks. Sawed joints without tooling are not allowed.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

### 3.6 CONCRETE PLACEMENT

- A. Refer to Div 03 concrete section for concrete placement information.
- B. Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast-in.
- C. Remove snow, ice, or frost from subbase surface and steel reinforcement before placing concrete. Do not place concrete on frozen surfaces.
- D. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- E. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- F. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301, (4.3.2.1 Slump Adjustment).
  1. With each concrete mixture submittal, indicate amounts of mixing water to be withheld for later addition at Project site.
  2. Water added must not increase the water-cement ratio past the approved mix design ratio.
  3. Add additional water reducer or plasticizer to mix instead of adding water to achieve flowable, workable concrete. Do not add water to concrete after adding these admixtures to mixture.
  4. Do not add water after truck is more than half empty.
- G. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- H. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.

1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement dowels and joint devices.
- I. Screed paving surface with a straightedge and strike off.
  - J. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.
  - K. Machine-Placed Curbs and Gutters: Allowed only upon Architect approval. Use design mixture for automatic machine placement. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing.
  - L. Slip-Form Paving: Allowed only upon Architect approval. Use design mixture for automatic machine placement. Produce paving to required thickness, lines, grades, finish, and jointing.
    1. Compact subbase and prepare subgrade of sufficient width to prevent displacement of slip-form paving machine during operations.
  - M. Cold-Weather Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing, or low temperatures. Comply with ACI 306.1 and the following:
    1. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
    2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
    3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
  - N. Hot-Weather Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:
    1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated in total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
    2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
    3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

### 3.7 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.

- B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
  - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture.
- C. Pigmented Mineral Dry-Shake Hardener Finish: After initial floating, apply dry-shake materials to paving surface according to manufacturer's written instructions and as follows:
  - 1. Uniformly spread dry-shake hardener at a rate of 100 lb/100 sq. ft., unless greater amount is recommended by manufacturer to match paving color required.
  - 2. Uniformly distribute approximately two-thirds of dry-shake hardener over the concrete surface with mechanical spreader; allow hardener to absorb moisture and embed it by power floating. Follow power floating with a second application of pigmented mineral dry-shake hardener, uniformly distributing remainder of material at right angles to first application to ensure uniform color, and embed hardener by final power floating.
  - 3. After final power floating, apply pattern stamp as per manufacturer's instructions.
  - 4. Cure concrete with curing compound recommended by dry-shake hardener manufacturer. Apply curing compound immediately after final finishing.

### 3.8 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 and 305R for hot-weather protection during curing.
- B. Slabs: Protect slabs within building from precipitation accumulation. Immediately remove water, snow or ice from surface of slabs within building regardless if source is from precipitation, construction activities, etc.
- C. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- D. Formed Surfaces: Cure formed concrete surfaces, including supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
- E. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.
- F. Cure concrete according to ACI 308.1:
  - 1. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall

within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

- G. Apply penetrating, silicane sealer or curing and sealing compound for stamped concrete per manufacturer's instructions. Do not use silicane sealer on stamped concrete.

### 3.9 FIELD QUALITY CONTROL

- A. Refer to Div 03 concrete section for field quality control information.

- 1. Contractor Requirements:

- a. Provide access to concrete construction for representatives of testing agency employed by Owner to perform concrete testing.
- b. Notify Architect at least four days in advance of each concrete placement to allow notification of Owner's testing agency.

### 3.10 REPAIRS AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.
- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 32 13 13

## **SECTION 32 33 43.13 – SITE SEATING STRUCTURES**

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:

- 1. Prefabricated Site Seating Structures. Model “Solid Podium Isles” as manufactured by Streetlife USA, Inc., 230 S Broad Street, Philadelphia, PA, 19102, 215-247-0148 (usa@streetlife.com).

#### 1.3 SUBMITTALS, GENERAL

- A. General: Submit all action submittals required by this Section concurrently.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For the following:

- 1. Streetlife USA Site Seating Structures, Two (2). Product Code PI-288-120-70-PC-CU.

- B. Shop Drawings: Show fabrication and installation details for site seating structures.

- 1. Include plans, elevations, sections, and details of the seat structures and their connections. Show anchorage and accessory items.

- C. Warranty:

- a. Sample of manufacturer warranty

#### 1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of construction contiguous with site seating structures by field measurements.

## 1.6 COORDINATION

- A. Coordinate installation of anchorages (if required). Furnish setting drawings, templates, and directions for installing anchorages, including anchor bolts, and items with integral anchors, which are to be embedded in concrete. Deliver such items to Project site in time for installation.

## 1.7 WARRANTY

- A. Manufacturer warranty: Manufacturer's standard form in which Contractor agrees to repair or replace components of seating structures that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Deterioration of metals, metal finishes, coatings and other materials of the seating structures' components, including fasteners and wood or recycled composite slats.
  - 2. Warranty Period:
    - a. Metal Parts: Five (5) years from date of Substantial Completion.
    - b. Coated Metal Parts (in contact with soil): Two (2) years from date of Substantial Completion.
    - c. Coated Metal Parts (above grade): Three (3) years from date of Substantial Completion.
    - d. Wooden Parts: Two (2) years from date of Substantial Completion.
    - e. Composite Parts: Five (5) years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 METALS, SUPPORT WALLS

- A. Steel with double layer powder coating [-PC] in Streetlife colors. Color to be approved by architect from manufacturer's standard palette. Optional untreated weathering corten steel [-CT]: delivered unweathered.

### 2.2 WOOD SLATS

- A. Slat Material: untreated FSC® 100% Cumaru hardwood. Hardwood fading naturally to silver/grey, fully recyclable.
- B. Dimension hardwood slats 7×7 cm | 2.8×2.8", end-beams 7×15 cm | 2.8×5.9". Integrated comb system ensuring a slat spacing of 8 mm.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Beginning installation constitutes Contractor's acceptance of substrates and conditions.

3.2 Delivery: typically, as wall sections of max. 10ft long and sets of 6 pre-assembled slats.

### 3.3 INSTALLING PREFABRICATED SITE SEATING STRUCTURES

- A. Field Assembly: Assemble on-site according to manufacturer's instructions.
- B. Set seating structures level, plumb, true, and free of rack; and measured from established lines and levels.
- C. Installation: seating height 47 cm | 19", except where otherwise indicated, open bottom structure extends 15 cm below grade. Surface mounting is available on request.
- D. Provide for anchorage (if required); coordinate with supporting structure. Space anchoring devices to secure seating structures.

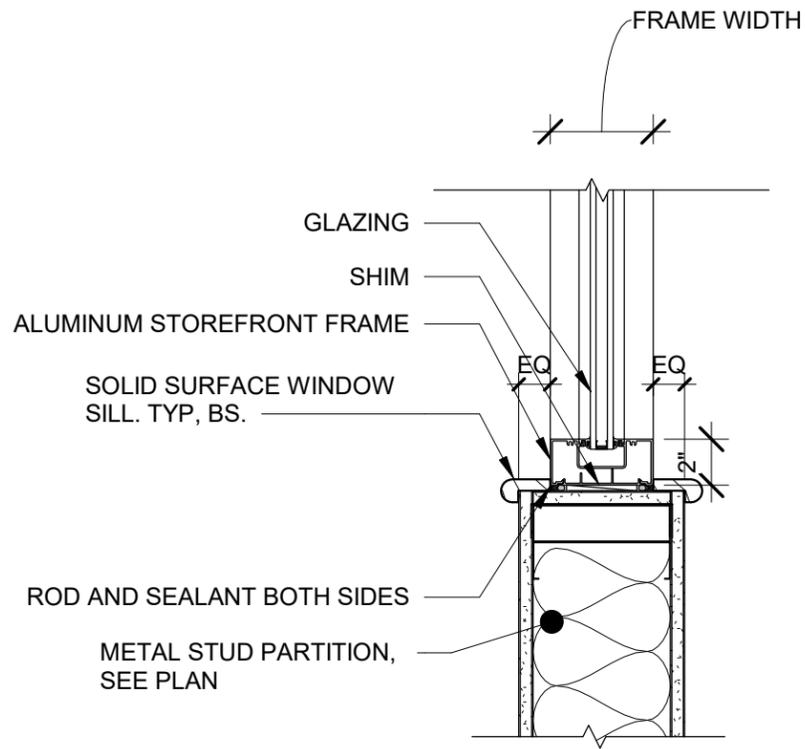
### 3.4 ADJUSTING AND CLEANING

- A. Touchup Painting and Repairs: Provide touchup painting and/or repairs to minor nicks, scratches or blemishes as recommended by the manufacturer.
- B. Site seating structures' components that have damage to the powder coated finish or slats upon delivery or prior to assembly and installation will be rejected and must be replaced.
- C. Clean all surfaces thoroughly and protect until acceptance.

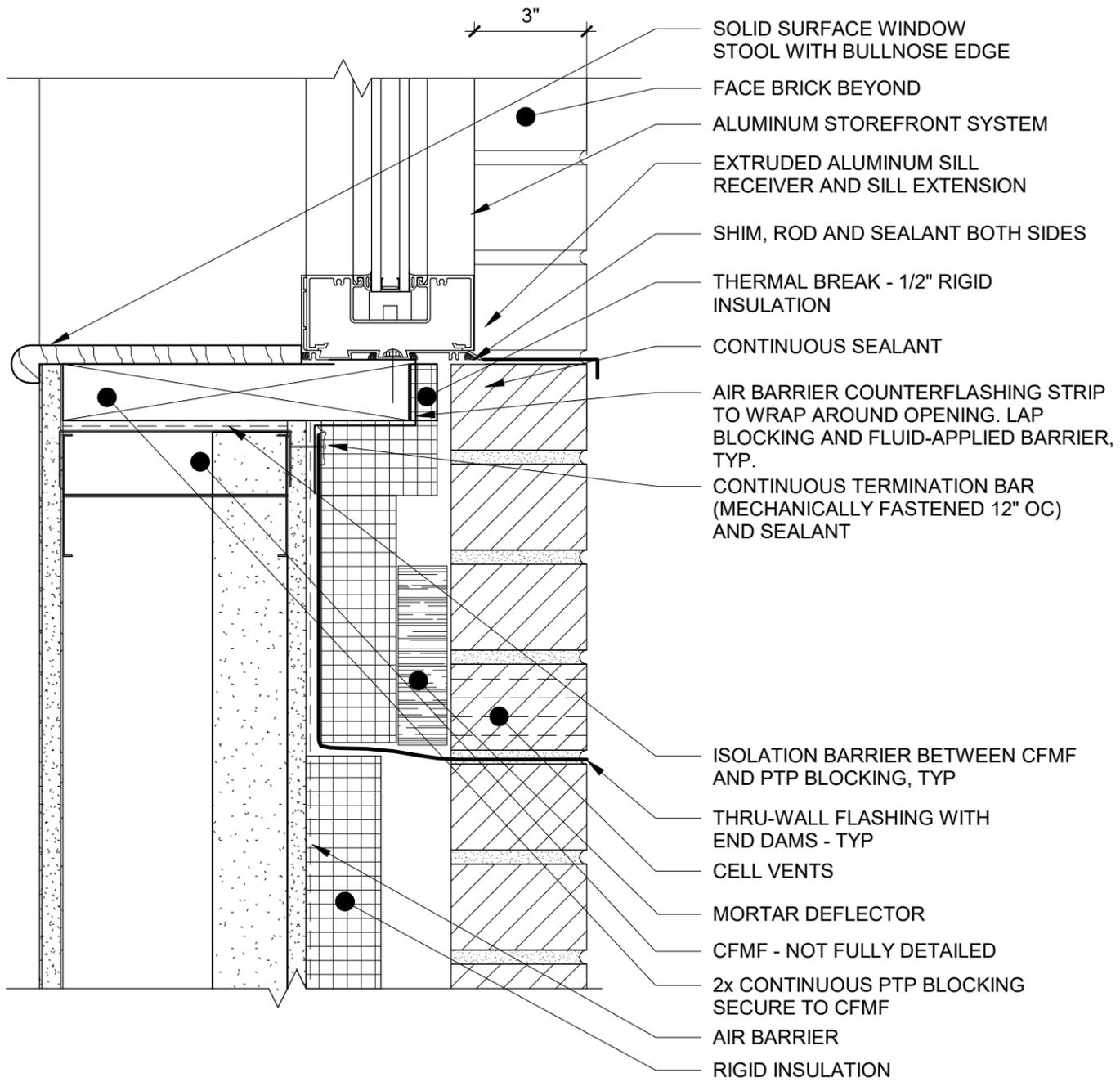
ED OF SECTION 32 33 43.13

1 2 3 4 5 6 7

A  
B  
C  
D  
E



**24** Sill Detail  
1 1/2" = 1'-0"



**23** Storefront Sill Detail  
3" = 1'-0"

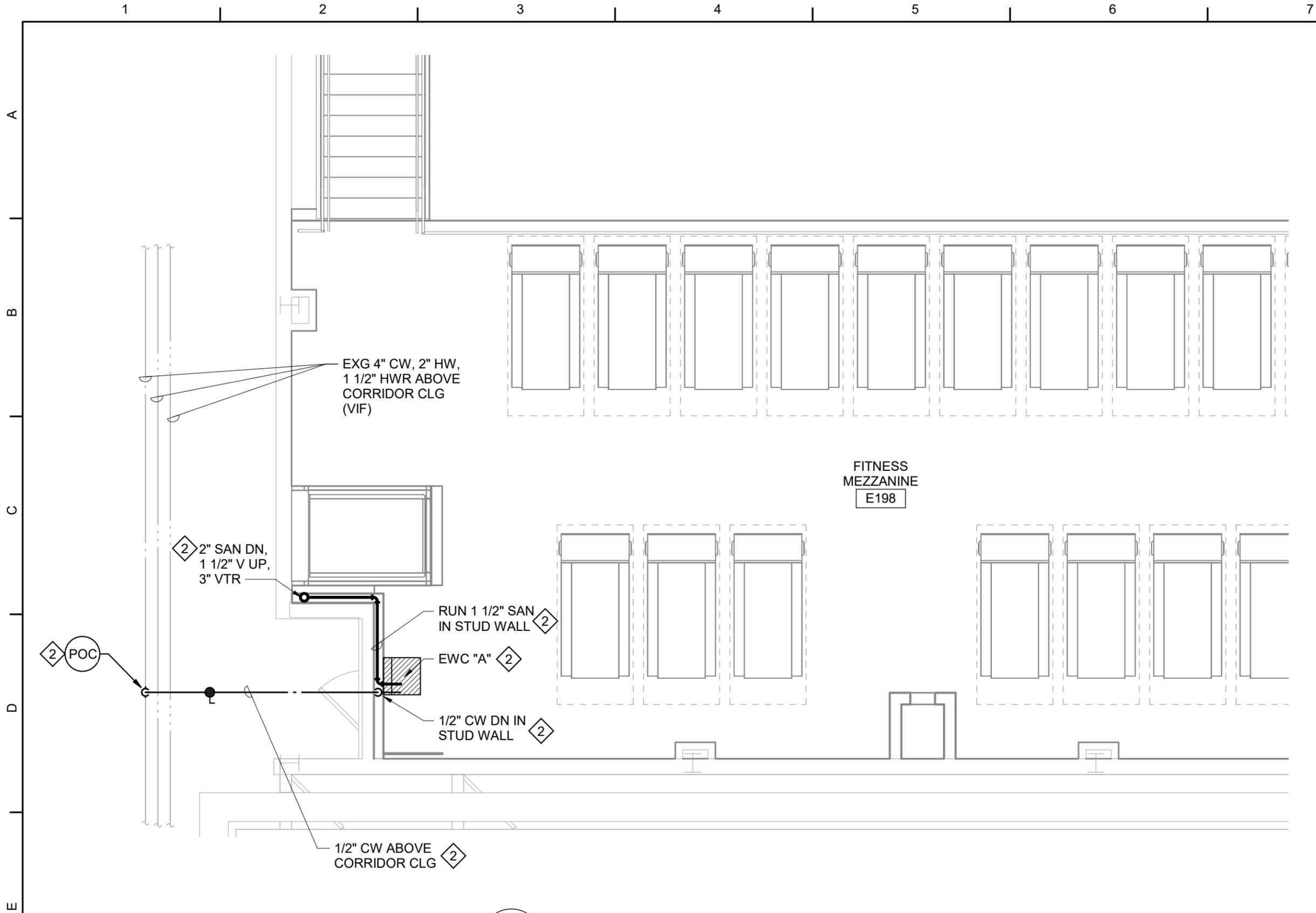
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Date: 09/07/23  
Drawn By: Author  
Drawing No.: BA01B

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Rev.:	Date:	Description:

**TETRA TECH**  
ARCHITECTS & ENGINEERS  
Tetra Tech Engineers, Architects & Landscape Architects, P.C.

**Beacon City School District**  
**Glenham Elementary School**  
**Sill Details**



1
**Partial Revised Fitness Mezzanine E198 Plan**  
 1/4" = 1'-0"

Drawing Issued by BID Addendum No. 3

Proj. No.: 279180-22004	Date: 09/08/23	Drawn By: GPD	Drawing No.: FP01B
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Rev.:	Date:	Description:



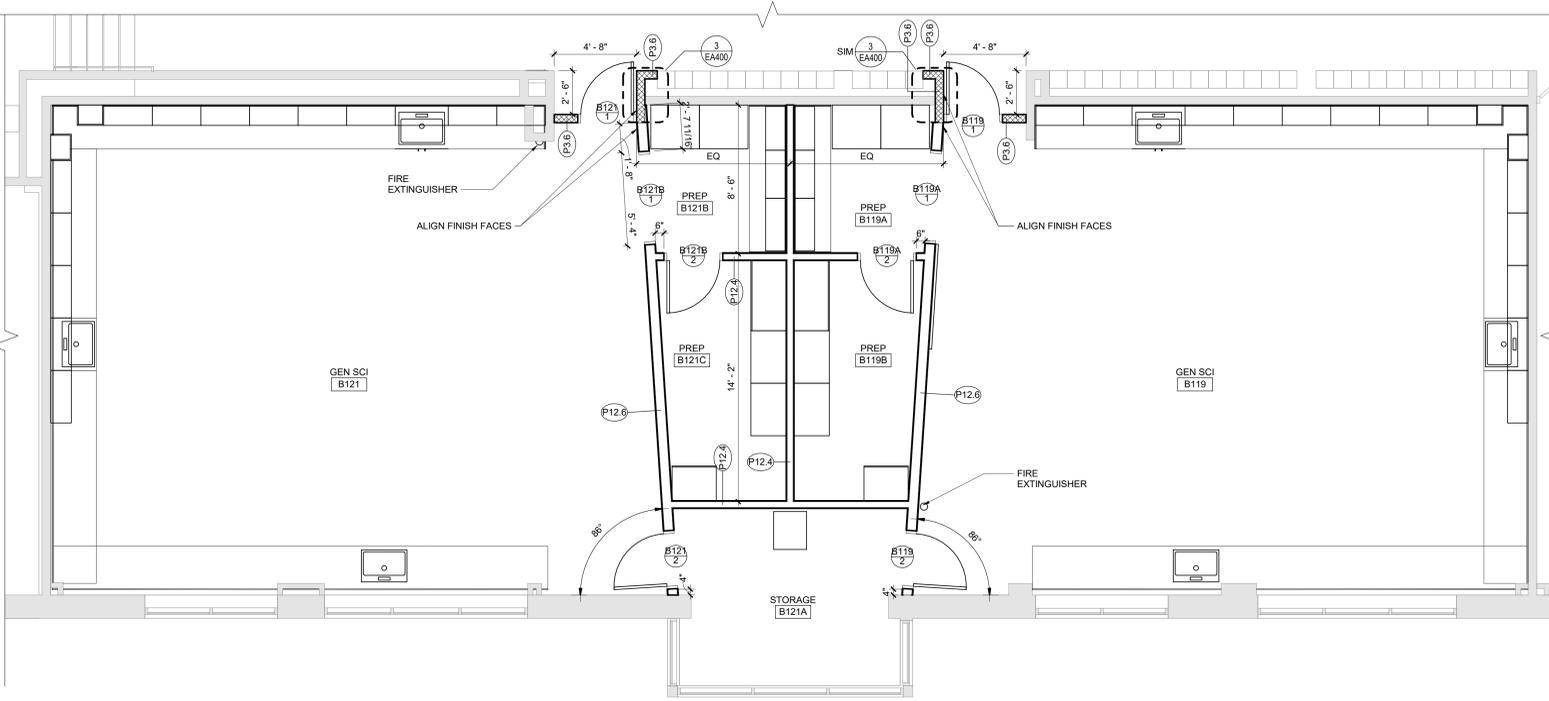
**TETRA TECH**  
ARCHITECTS & ENGINEERS

Tetra Tech Engineers, Architects & Landscape Architects, P.C.

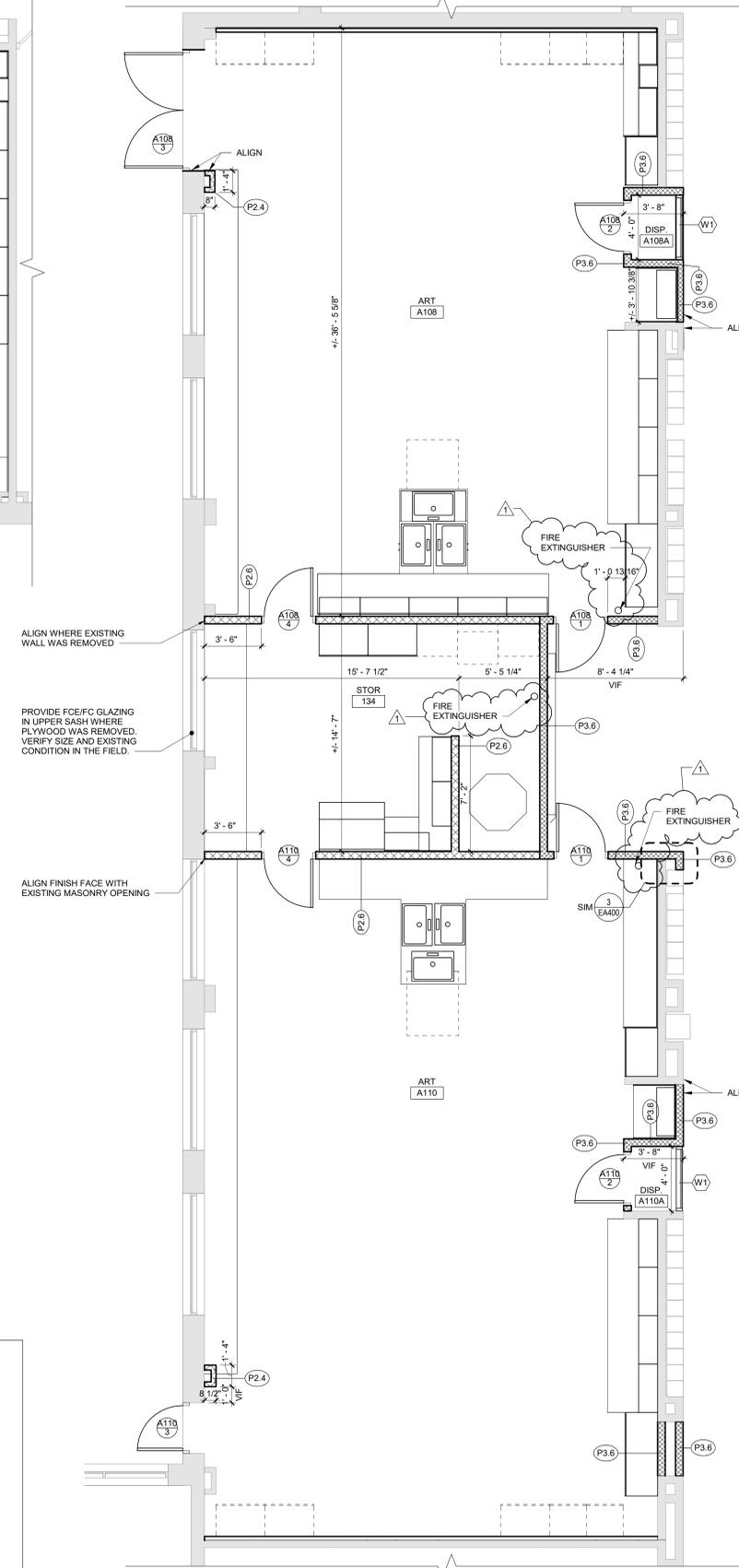
**Beacon City School District**

**Beacon City High School**

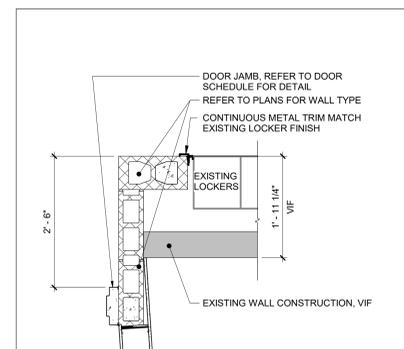
**Partial Revised Fitness Mezzanine E198 Plan**



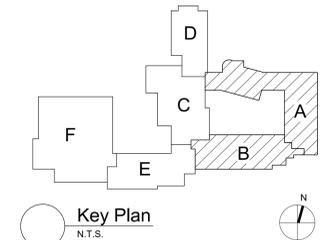
2 First Floor Area B Enlarged Science Rooms Plan  
1/4" = 1'-0"



1 First Floor Area A Enlarged Art Rooms Plan  
1/4" = 1'-0"



3 Locker Plan Detail  
3/4" = 1'-0"



S.E.D. Control No. 13-02-00-01-0-004-023

Rev. No.	Date	Description
1	9/7/23	BID ADDENDUM NO. 3



complex world | CLEAR SOLUTIONS

Tetra Tech Engineers, Architects & Landscape Architects, P.C.



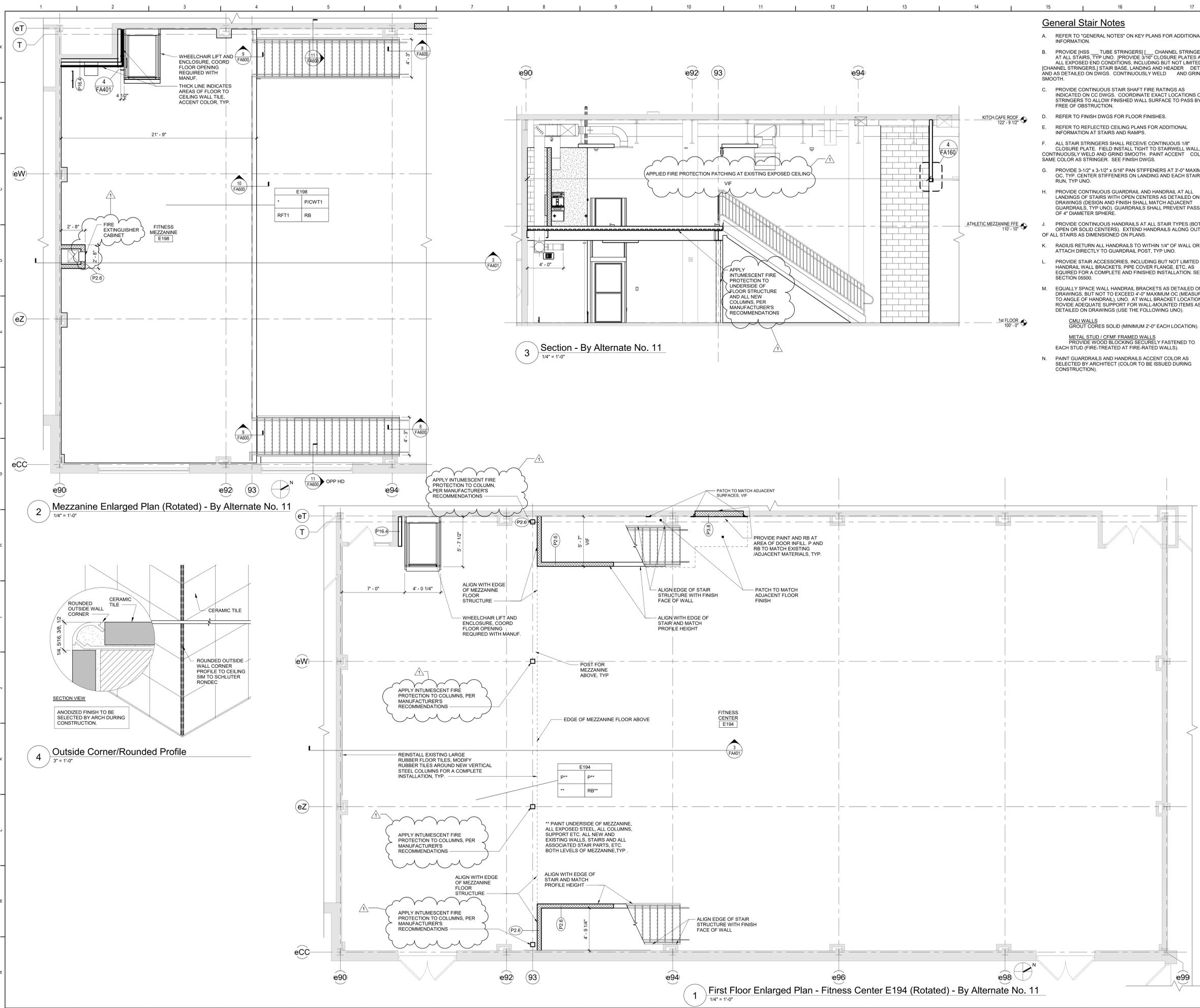
Beacon City School District  
Beacon, New York

Reconstruction to:  
Rombout Middle School

Enlarged Plans and Details

Drawn By: TTAE	Date: 10/28/2022	Drawing Number:
Project No.:	EA400	

BID SET



**General Stair Notes**

- A. REFER TO "GENERAL NOTES" ON KEY PLANS FOR ADDITIONAL INFORMATION.
- B. PROVIDE [HSS TUBE STRINGERS] [CHANNEL STRINGERS] AT ALL STAIRS, TYP UNO. PROVIDE 3/16" CLOSURE PLATES AT ALL EXPOSED END CONDITIONS, INCLUDING BUT NOT LIMITED TO: [CHANNEL STRINGERS] STAIR BASE, LANDING AND HEADER DETAILS AND AS DETAILED ON DWGS. CONTINUOUSLY WELD AND GRIND SMOOTH.
- C. PROVIDE CONTINUOUS STAIR SHAFT FIRE RATINGS AS INDICATED ON CC DWGS. COORDINATE EXACT LOCATIONS OF STRINGERS TO ALLOW FINISHED WALL SURFACE TO PASS BY FREE OF OBSTRUCTION.
- D. REFER TO FINISH DWGS FOR FLOOR FINISHES.
- E. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION AT STAIRS AND RAMPS.
- F. ALL STAIR STRINGERS SHALL RECEIVE CONTINUOUS 1/8" CLOSURE PLATE. FIELD INSTALL TIGHT TO STAIRWELL WALL, AND CONTINUOUSLY WELD AND GRIND SMOOTH. PAINT ACCENT COLOR, SAME COLOR AS STRINGER. SEE FINISH DWGS.
- G. PROVIDE 3-1/2" x 3-1/2" x 5/16" PAN STIFFENERS AT 3'-0" MAXIMUM OC, TYP. CENTER STIFFENERS ON LANDING AND EACH STAIR RUN, TYP UNO.
- H. PROVIDE CONTINUOUS GUARDRAIL AND HANDRAIL AT ALL LANDINGS OF STAIRS WITH OPEN CENTERS AS DETAILED ON DRAWINGS (DESIGN AND FINISH SHALL MATCH ADJACENT GUARDRAILS, TYP UNO). GUARDRAILS SHALL PREVENT PASSAGE OF 4" DIAMETER SPHERE.
- J. PROVIDE CONTINUOUS HANDRAILS AT ALL STAIR TYPES (BOTH OPEN OR SOLID CENTERS). EXTEND HANDRAILS ALONG OUTSIDE OF ALL STAIRS AS DIMENSIONED ON PLANS.
- K. RADIUS RETURN ALL HANDRAILS TO WITHIN 1/4" OF WALL OR ATTACH DIRECTLY TO GUARDRAIL POST, TYP UNO.
- L. PROVIDE STAIR ACCESSORIES, INCLUDING BUT NOT LIMITED TO: HANDRAIL WALL BRACKETS, PIPE COVER FLANGE, ETC. AS EQUIPPED FOR A COMPLETE AND FINISHED INSTALLATION. SEE SECTION 09500.
- M. EQUALLY SPACE WALL HANDRAIL BRACKETS AS DETAILED ON DRAWINGS, BUT NOT TO EXCEED 4'-0" MAXIMUM OC (MEASURED TO ANGLE OF HANDRAIL) UNO. AT WALL BRACKET LOCATIONS PROVIDE ADEQUATE SUPPORT FOR WALL-MOUNTED ITEMS AS DETAILED ON DRAWINGS (USE THE FOLLOWING UNO).
  - CMU WALLS  
GROUT CORES SOLID (MINIMUM 2'-0" EACH LOCATION).
  - METAL STUD / CFPM FRAMED WALLS  
PROVIDE WOOD BLOCKING SECURELY FASTENED TO EACH STUD (FIRE-TREATED AT FIRE-RATED WALLS).
- N. PAINT GUARDRAILS AND HANDRAILS ACCENT COLOR AS SELECTED BY ARCHITECT (COLOR TO BE ISSUED DURING CONSTRUCTION).

**Room Finish Key**

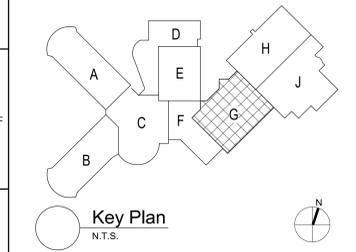
CWT1	CERAMIC WALL TILE TYPE 1
EF	EPOXY FLOORING - POURED
HPC	HIGH PERFORMANCE COATING
MCS	MOISTURE CONTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
QT	QUARRY TILE
RAF	RESILIENT ATHLETIC FLOORING
RF1	RUBBER FLOORING - TYPE 1
RS	RUBBER STAIR TREAD AND RISERS
RB	RUBBER BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
+	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

RMP	
CLG*	WALL
FLR	BASE

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING. REFER TO EACH ROOM FOR MORE INFORMATION.

REFER TO DRAWING FA820 FOR GENERAL FINISH NOTES.  
REFER TO DRAWING FA820 FOR GENERAL CASEWORK NOTES.



S.E.D. Control No. 13-02-00-01-0-020-012

1	9/7/23	BID ADDENDUM NO. 3
Rev. No.:	Date:	Description:



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**BID SET**



Beacon City School District  
Beacon, New York

Reconstruction to:  
Beacon High School

Enlarged Plans and Sections - Area G

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	
Project No.:	279180-22004	
		<b>FA401</b>