MAROTTA/MAIN
ARCHITECTS

ADDENDUM

 # 02 | 250411

Chichester School District
Chichester High School Stadium Renovation Rebid

Marotta/Main Architects Project No.
22-CSD-04

Date of Addendum: April 08, 2025

The original Project Manuals and Drawings dated March 31, 2025 for the project noted above, are amended as noted in this Addendum No. 02.

Receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of 03 Pages and all attachments listed.

GENERAL CLARIFCATIONS

02.1 This addendum includes a new bid alternate with an extension to the project schedule.

PRE-BID MEETING & ATTACHMENTS

02.2 Pre-bid Meeting Report and Sign-In Sheets are attached for review and record.

LEGAL SPECIFICATIONS

02.3 Refer to SPECIFICATIION INDEX.

a. Under DIVISION 7 – THERMAL AND MOISTURE PROTECTION, INSERT the following text:

07 24 19 WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) 07 24 19 8

02.4 Refer to specification section 00 01 15 – LIST OF DRAWING SHEETS.

a. Under STRUCTURAL insert text to read as follows:

S-1.1 SCOREBOARD SECTIONS & ELEVATION – ADD ALT. 1

02.5 Refer to specification Section 00 43 23 ALTERNATES FORM.

a. REPLACE section in its entirety with the attached section.

02.6 Refer to specification section 01 23 00 ALTERNATES.

a. REPLACE section in its entirety with the attached section.

TECHNICAL SPECIFICATIONS

ARCHITECTURAL

02.7 INSERT the attached section WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) in its entirety.

02.8 INSERT the attached section 09 24 00 CEMENT PLASTERING in its entirety.

PLUMBING

02.9 Refer to specification section 22 47 00 WATER COOLORS.

a. REPLACE section in its entirety with the attached section.

MECHANICAL

02.10 Refer to specification section 23 31 13 METAL DUCTS.

a. Under 3.10 DUCT SCHEDULE, REVISE paragraph H to read as follows:

H. Double-Wall Duct Interstitial Insulation:

1. All supply and return/relief air ductwork from the Air Handling Unit shall be double wall type with inner perforated liner.
2. All lined ductwork shall have a perforated galvanized inner liner.
3. All air terminal devices (i.e. diffusers) shall be provided with lined insulated plenum boxes (No inner galvanized liner).

DRAWINGS

STRUCTURAL

02.11 Refer to Drawing S-0.1 GENERAL STRUCTURAL NOTES, SCHEDULES & SECTIONS.

a. Replace this drawing in its entirety with the attached drawing S-0.1, renamed “GENERAL STRUCTURAL NOTES & SCHEDULES.”

b. Revisions are clouded and include:

i. Added steel inspection section to special inspections schedule.

ii. Section 1/S-0.1 “Section – Add Alt. 1”, moved to S-1.1.

iii. Section 2/S-0.1 “Plan Detail – Add Alt. 1”, moved to S-1.1.

02.12 Add Drawing S-1.1 “Scoreboard Sections & Elevation – Add Alt. 1” (attached) to the plan set after sheet S-1.0 “Foundation and Roof Framing Plan”.

02.13 Refer to Drawing S-1.0 “Foundation and Roof Framing Plan”

a. Refer to 2/S-1.0 “Foundation Plan – Scoreboard Add Alt. 1.” Revise Scoreboard column size from Galv. W16x67 to Galv. W16x77.

b. Refer to 4/S-1.0 “Scoreboard Framing Plan – Add Alt. 1.” For the following revisions

i. Revise top of steel elevation of HSS 8x8x3/8 from 18’-8” to 18’-7”.

ii. Revise “Galv. HSS6x6x3/8 (V.I.F.)” note to read, “Galv. HSS8x8x3/8 (Coord. W/ scoreboard manuf.)”

iii. Update section call out 1/S-0.1 to 1/S-1.1

iv. Update section call out 2/S-0.1 to 2/S-1.1.

v. Add Elevation mark 3/S-1.1, facing exterior face of the scoreboard.

END OF ADDENDUM 02

Respectfully Submitted,

Christina Kincaid, Project Architect
Marotta/Main Architects, Inc.

Attachments:

Pre-bid Meeting Report and Sign-in Sheet

Specifications

00 43 23 ALTERNATES FORM
01 23 00 ALTERNATES
07 24 19 WATER DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
09 24 00 CEMENT PLASTERING
22 47 00 WATER COOLER

Drawings

ASK-1 SITE STAGING PLAN
ASK-2 ALTERNATES 07A AND 09A
S0.1 GENERAL STRUCTURAL NOTES & SCHEDULES
S1.1 SCOREBOARD SECTIONS & ELEVATION – ADD ALT. 1

MAROTTA/MAIN
ARCHITECTS

PRE-BID MEETING REPORT

Chichester School District

Chichester High School Stadium Restrooms

Marotta/Main Architects Project No.

22-CSD-04

Date of Meeting: April 9, 2025

Date of Report: April 10, 2025

This meeting served as a project introduction to parties interested in bidding.

01. Project Team Introductions were made as follows:

    a. Chichester School District: Mike Civera, Director of Facilities (mcivera@chichestersd.org)
    b. Joseph Jingoli & Sons, Inc.: Mike Noll, Project Manager (mike.noll@jingoli.com)
    c. Marotta/Main Architects: Don Main, Christina Kincaid (cdk@marottamain.com), Sarah Lesniara (sjl@marottamain.com)
    d. Engineers/Consultants:

        1) Site / Civil Engineer: G.D. Houtman & Son, INC.; Gus Houtmann
        2) Structural Engineer: Joseph Barbato Associates, LLC; Michael H. Sheer, Robert Kushner
        3) Alban Engineering/RTM Engineering Consultants; Steve Cramer, Mahsa Zarrindast, Keith McFadden

02. Owner will receive sealed proposals until the time and date at the location indicated below. Owner will consider proposals prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:

    a. Bid Date: April 21, 2025
    b. Bid Time: 10:00 a.m., local time
    c. Location: Chichester School District administration building, 401 Cherry Tree Road, Aston, PA 19014.

    Bids will be thereafter publicly opened and read aloud. The Bid Documents are only available through the Architect's Office.

03. This pre-bid meeting is mandatory. All prospective prime contractors must attend the Pre-Bid meeting to submit a bid. Contractors who would like to schedule a site visit must schedule the visit through Mike Civera at 610-485-6881 Ext. 6402 or mcivera@chichestersd.org.

04. The Bid Documents are only available through the Architect's Office by emailing sjl@marottamain.com.

05. Bidding, Multiple Primes:

    a. General Construction Contract
    b. Mechanical Construction Contract
    c. Electrical Construction Contract
    d. Plumbing Construction Contract

06. Contracts being purchased directly by the Owner include:

a. Door access and security

07. Concurrent work by the Owner taking place during this project:

a. Ongoing major renovation of the High School buildings.

08. Bid Form Attachments include the following. Refer to specifications and See bid submittal checklist.

a. Schedule of Allowances
b. Schedule of Unit prices
c. Schedule of Alternates
d. Bid Bond / Security at 10% of Bid Value
e. Non-Collusion Affidavit
f. Agreement of Surety
g. Statement of Contractor's Qualification and Financial Disclosure
h. Contractor Responsibility Certification
i. Refer to the General Conditions for Insurance Requirements, A201, Article 11.

09. An RFI Form is included in the Specifications at the end of Instructions to Bidders.

a. All RFIs must be received on or before Monday, April 14, 2025.
b. RFIs should be submitted to:

1) Christina Kincaid at cdk@marottamain.com
2) Sarah Lesniara at sjl@marottamain.com

c. E-mail form is acceptable.
d. Response will be returned on the RFI, and issued as a clarification or change to contract documents if required through addendum. Please submit as Word Doc or PDF.

10. AIA Owner/Contractor Contracts will include:

a. Payment and Performance Bonds
b. Certificate of Insurance

11. Successful bidders shall commence the Work upon receipt of the Notice to Proceed and shall complete the Work within the Contract Time, as follows:

31 March 2025	Project Documents available for Bidders
09 April 2025	Pre-Bid Meeting conducted
21 April 2025	Bids Received
24 April 2025	Bid Approval (Board Meeting)
25 April 2025	Notice to Proceed Issued
12 May 2025	Start of Construction
10 October 2025	Substantial Completion
05 December 2025	Final Completion

12. Liquidated Damages apply to this project. Refer to General Conditions, A201, Articles 8.3 & 8.4 and Specification Section 00 31 13.

13. Working hours were reviewed: between 6 am and 3 pm.

14. The use of tobacco products and controlled substances is strictly prohibited on all School Property.

15. Employee screening is required. Fingerprint, State Police and Child Abuse background checks will be required on all employees prior to being on site.

16. Building Permit fees will be paid by the Owner. Contractors are responsible for all licensing fees.

17. It was noted that Upper Chichester Township has a licensing requirement for contractors.

18. Drawings and specifications will be updated by addendum following this meeting, as necessary. Meeting report and attendee list will be provided as well.

19. Bidders were encouraged to walk the site.

20. Additional site visits, if required outside of this meeting, can be arranged by contacting Mike Civera.

21. Contractors are encouraged to submit RFIs for any questions they may have.

22. Bidders with budget questions should please contact the Architect's office for information on the Architect's budget.

This report describes our understanding of the items discussed. Please notify the Architect's office in writing with any comments or revisions. Unless our office is notified within one week of receipt, these minutes will stand as written.

Respectfully Submitted,
Marotta/Main Architects

Christina Kincaid, AIA
Project Architect

Attachments: Sign-in Sheets

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DOCUMENT 00 43 23 - ALTERNATES FORM

1.1 BID INFORMATION

A. Bidder: _____.

B. Prime Contract: _____.

C. Project Name: Chichester High School Stadium Restrooms

D. Project Location: Chichester High School, 3333 Chichester Ave, Boothwyn, PA 19061

E. Owner: Chichester School District, 401 Cherry Tree Road. Aston, PA 19014

F. Architect: Marotta/Main Architects

G. Architect Project Number: 22-CSD-04

1.2 BID FORM SUPPLEMENT

A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

1. Cost-Plus-Fee Contract: Alternate price given below includes adjustment to Contractor's Fee.

B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."

C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

D. The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.

E. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within **60** days of the Notice of Award unless otherwise indicated in the Contract Documents.

F. Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

A. Alternate Bid No. 1 - NEW SCOREBOARD (to be bid by the GC and EC only)

ADD _____ Dollars ($_____)

B. Alternate Bid No. 2 - SCHEDULE (to be bid by all Primes)

ADD _____ Dollars ($_____)

C. Alternate Bid No. 07A – EIFS (to be bid by GC only)

ADD/DEDUCT _____Dollars ($_____)

D. Alternate Bid No. 09A – CEMENT PLASTER (to be bid by GC only)

ADD/DEDUCT _____Dollars ($_____)

E. Alternate Bid No. 23A – COOLING (to be bid by the MC and EC only)

ADD _____ Dollars ($_____)

1.5 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, 20___.

B. Submitted By:_____(Insert name of bidding firm or corporation).

C. Authorized Signature:_____(Handwritten signature).

D. Signed By:_____(Type or print name).

E. Title:_____(Owner/Partner/President/Vice President).

END OF DOCUMENT 00 43 23

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. NEW SCOREBOARD (to be bid by the GC and EC only)

1. Alternate Bid No. 1 - SCOREBOARD

a. Base Bid: Provide all electrical scope for the restroom facility as described in the contract documents.

b. ADD Alternate Bid: Provide the additional cost to demo existing scoreboard and columns; connect and install new Owner-provided scoreboard with all columns, footers and associated electrical components.

B. SCHEDULE (to be bid by all Primes)

1. Alternate BID No. 2 - SCHEDULE

a. Base Bid: Carry out the Work in accordance with completion dates, and associated liquidated damages, as defined in the contract documents.

b. DEDUCT Alternate Bid: Provide the cost savings to carry out the Work with an additional (2) months to completion; no liquidated damages would apply.

a) Alternate date of substantial completion: December 05, 2025

b) Alternate date of full and final completion: January 30, 2026.

C. DIVISION 07 – THERMAL AND MOISTURE PROTECTION (to be bid by the GC only)

1. Alternate Bid No. 07A - EIFS

a. Base Bid: Provide 4” split face masonry veneer on exterior walls as shown on exterior elevations and wall sections.

b. Add/Deduct Alternate Bid: Provide the cost difference to provide EIFS system applied to exterior walls IN LIEU of 4” split face block.

D. DIVISION 09 – FINISHES (to be bid by the GC only)

1. Alternate Bid No. 09A – CEMENT PLASTER

a. Base Bid: Provide 4” split face masonry veneer on exterior walls as shown on exterior elevations and wall sections.

b. Add/Deduct Alternate Bid: Provide the cost difference to provide 4” standard concrete masonry units and with cement plaster base coats and textured acrylic finish coat IN LIEU OF 4” split face block veneer.

E. DIVISION 23 – HEATING VENTILATION AND AIR CONDITIONING (to be bid by the MC and EC only)

1. Alternate Bid No. 23A – COOLING

a. Base Bid: Provide mechanical and electrical systems for the building to include heating/ventilation only.
b. ADD Alternate Bid: Provide the additional cost to install cooling to the building.

END OF SECTION 01 23 00

SECTION 07 24 19 - WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Water-drainage exterior insulation and finish system (EIFS).
   1. EIFS-clad drainage-wall assemblies that are field applied over substrate.
   2. Water-resistive barrier coatings.

1.2 DEFINITIONS

A. Definitions in ASTM E2110 apply to Work of this Section.

B. EIFS: Exterior insulation and finish system(s).

C. IBC: International Building Code.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each EIFS component, trim, and accessory including water-resistive barrier coatings.

B. Shop Drawings:
   1. Include details for EIFS buildouts.
   2. Include details for parapet cap flashing.

C. Samples: For each exposed product and for each color and texture specified, 8 inches (200 mm) in size**.**

D. Samples for Initial Selection: For each type of finish-coat color and texture indicated.
   1. Include similar Samples of exposed accessories involving color selection.

E. Samples for Verification: 24-inch- (600-mm-) square panels for each type of finish-coat color and texture indicated, prepared using same tools and techniques intended for actual work.
   1. Include exposed trim and accessory; Samples to verify color selected.
   2. Include a typical control joint filled with sealant of color selected, as specified in Section 07 92 00 "Joint Sealants."

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Manufacturer Certificates: Signed by EIFS manufacturer, certifying the following:
   1. EIFS complies with requirements.
   2. Substrates to which EIFS is indicated to be attached are acceptable to EIFS manufacturer.
   3. Accessory products installed with EIFS, including joint sealants**,** flashing, water-resistive barrier coatings, **t**rim**,** whether or not furnished by EIFS manufacturer and whether or not specified in this Section, are acceptable to EIFS manufacturer.

C. Product Certificates: For cementitious materials and aggregates and for insulation and joint sealant, from manufacturer.

D. Product Test Reports: For each EIFS assembly and component, and for water-resistive barrier coatings, for tests performed by a qualified testing agency.

E. Field quality-control reports.

F. Sample Warranty: For manufacturer's special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For EIFS to include in maintenance manuals.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An installer who is certified in writing by AWCI International as qualified to install Class PB EIFS using trained workers.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, to set quality standards for materials and execution, and to set quality standards for fabrication and installation.
   1. Build mockup of typical wall area as shown on Drawings.
   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. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original, unopened packages with manufacturers' labels intact and clearly identifying products.

B. Store materials inside and under cover; keep them dry and protected from weather, direct sunlight, surface contamination, aging, corrosion, damaging temperatures, construction traffic, and other causes.
   1. Stack insulation board flat and off the ground.
   2. Protect plastic insulation against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.
   3. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

1.9 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions and ambient outdoor air, humidity, and substrate temperatures permit EIFS to be applied, dried, and cured according to manufacturers' written instructions and warranty requirements.
   1. Proceed with installation of adhesives or coatings only when ambient temperatures have remained, or are forecast to remain, above 40 deg F (4.4 deg C) for a minimum of 24 hours before, during, and after application. Do not apply EIFS adhesives or coatings during rainfall.

1.10 WARRANTY

A. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace components of EIFS-clad drainage-wall assemblies that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Bond integrity and weathertightness.
      b. Deterioration of EIFS finishes and other EIFS materials beyond normal weathering.
   2. Warranty coverage includes the following components of EIFS-clad drainage-wall assemblies:
      a. EIFS finish, including base coats, finish coats, and reinforcing mesh.
      b. Insulation installed as part of EIFS.
      c. Insulation adhesive and mechanical fasteners.
      d. EIFS accessories, including trim components and flashing.
      e. Water-resistive barrier coatings.
      f. EIFS drainage components.
   3. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

A. Basis of design product: Subject to requirements, provide Outsulation HDCI System as a manufactured by Dryvit Systems, Inc, or equal approved by one of the following:

1. Sika Corporation..
2. Sto Corporation.

B. Source Limitations: Obtain EIFS from single source from single EIFS manufacturer and from sources approved by EIFS manufacturer as compatible with EIFS components.

2.2 PERFORMANCE REQUIREMENTS

A. EIFS Performance: Comply with ASTM E2568 and with the following:
1. Weathertightness: Resistant to uncontrolled water penetration from exterior, with a means to drain water entering EIFS to the exterior.
2. System Fire Performance: Fire-resistance rating of wall assembly.
3. Structural Performance of Assembly and Components:
   a. Wind Loads:
      1) Uniform pressure as indicated on Drawings.
4. Impact Performance: ASTM E2568, Ultra High impact resistance.
5. Abrasion Resistance of Finish Coat: Sample consisting of 1-inch- (25.4-mm-) thick EIFS mounted on 1/2-inch- (12.7-mm-) thick gypsum board; cured for a minimum of 28 days and shows no cracking, checking, or loss of film integrity after exposure to 528 quarts (500 L) of sand when tested in accordance with ASTM D968, Method A.
6. Mildew Resistance of Finish Coat: Sample applied to 2-by-2-inch (50.8-by-50.8-mm) clean glass substrate; cured for 28 days and shows no growth when tested in accordance with ASTM D3273 and evaluated in accordance with ASTM D3274.
7. Drainage Efficiency: 90 percent average minimum when tested in accordance with ASTM E2273.

2.3 EIFS MATERIALS

A. Water-Resistive Barrier Coating: EIFS manufacturer's standard formulation and accessories for use as water-resistive barrier coating; compatible with substrate.
1. Water-Resistance: Comply with physical and performance criteria of ASTM E2570/E2570M.

B. Flexible-Membrane Flashing: Cold-applied, self-adhering, self-healing, rubberized-asphalt, and polyethylene-film composite sheet or tape and primer; EIFS manufacturer's standard or product recommended in writing by EIFS manufacturer.

C. Insulation Adhesive: EIFS manufacturer's standard formulation designed for indicated use; specifically formulated to be applied to back side of insulation in a manner that creates open vertical channels designed to serve as an integral part of the water-drainage system of the EIFS-clad drainage-wall assembly**;** compatible with substrate; and complying with one of the following:
1. Job-mixed formulation of portland cement complying with ASTM C150/C150M, Type I, and polymer-based adhesive specified for base coat.
2. Factory-blended dry formulation of portland cement, dry polymer admixture, and fillers specified for base coat.
3. Factory-mixed noncementitious formulation designed for adhesive attachment of insulation to substrates of type indicated, as recommended by EIFS manufacturer.

D. Drainage Mat: Three-dimensional, nonwoven, entangled filament, nylon or plastic Woven or fused, self-furring, PVC mesh lath mat designed to drain incidental moisture by gravity; EIFS manufacturer's standard or product recommended in writing by EIFS manufacturer, with manufacturer's standard corrosion-resistant mechanical fasteners suitable for intended substrate.

E. Molded, (Expanded) Rigid Cellular Polystyrene Board Insulation: Comply with ASTM E2430/E2430M, unless otherwise noted, and the following:

1. Flame-Spread and Smoke-Developed Indexes: 25 and 450 or less, respectively, in accordance with ASTM E84.
2. Dimensions: Provide insulation boards of not more than 24 by 48 inches (610 by 1219 mm), with thickness indicated on Drawings.
3. Channeled Board Insulation: EIFS manufacturer's standard factory-fabricated profile with linear, vertical-drainage channels, slots, or waves on the back side of board.
4. Foam Buildouts: Provide with profiles and dimensions indicated on Drawings.

F. Reinforcing Mesh: Balanced, alkali-resistant, open-weave, glass-fiber mesh treated for compatibility with other EIFS materials, made from continuous multiend strands with retained mesh tensile strength of not less than 120 lbf/in. (21 dN/cm) in accordance with ASTM E2098/E2098M and the following:
1. Reinforcing Mesh for EIFS, General: Not less than weight required to comply with impact-performance level specified in "Performance Requirements" Article.
2. Strip-Reinforcing Mesh: Not less than As recommended by EIFS manufacturer.
3. Detail-Reinforcing Mesh: Not less than As recommended by EIFS manufacturer.
4. Corner-Reinforcing Mesh: As recommended by EIFS manufacturer

G. Base Coat: EIFS manufacturer's standard mixture complying with one of the following:
1. Job-mixed formulation of portland cement complying with ASTM C150/C150M, Type I, white or natural color; and manufacturer's standard polymer-emulsion adhesive designed for use with portland cement.
2. Job-combined formulation of manufacturer's standard polymer-emulsion adhesive and manufacturer's standard dry mix containing portland cement.
3. Factory-blended dry formulation of portland cement, dry polymer admixture, and inert fillers to which only water is added at Project site.
4. Factory-mixed noncementitious formulation of polymer-emulsion adhesive and inert fillers that is ready to use without adding other materials.

H. Water-Resistant Base Coat: EIFS manufacturer's standard water-resistant formulation complying with one **of** the following:
1. Job-mixed formulation of portland cement complying with ASTM C150/C150M, Type I, white or natural color; and manufacturer's standard polymer-emulsion adhesive designed for use with portland cement.
2. Job-combined formulation of manufacturer's standard polymer-emulsion adhesive and manufacturer's standard dry mix containing portland cement.

I. Primer: EIFS manufacturer's standard factory-mixed, elastomeric-polymer primer for preparing base-coat surface for application of finish coat.

J. Finish Coat: EIFS manufacturer's standard acrylic-based coating formulated with hydrophobic properties complying with the following:
1. Factory-mixed formulation of polymer-emulsion binder, colorfast mineral pigments, sound stone particles, and fillers.
2. Colors Custom color match as selected by Architect to match district’s brand color – maroon.
3. Textures: As selected by Architect from manufacturer's full range.
    a. Basis of design texture: to be selected from Quartzputz HDP, Sandblast HDP, or Sandpebble HDP as manufactured by Dryvit.

K. Sealer: Manufacturer's waterproof, clear acrylic-based sealer for protecting finish coat.

L. Water: Potable.

M. Trim Accessories: Type as designated or required to suit conditions indicated and to comply with EIFS manufacturer's written instructions; manufactured from UV-stabilized PVC; and complying with ASTM D1784, manufacturer's standard cell class for use intended, and ASTM C1063.
1. Casing Bead: Prefabricated, one-piece type for attachment behind insulation, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg.
2. Drip Screed/Track: Prefabricated, one-piece type for attachment behind insulation with face leg extended to form a drip, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg.

3. Weep Screed/Track: Prefabricated, one-piece type for attachment behind insulation with perforated face leg and weep holes in track bottom, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg; designed to drain incidental moisture that gets into wall construction to the exterior at terminations of EIFS with drainage.
4. Expansion Joint: Closed-cell polyethylene backer rod and elastomeric sealant 3/4-inch- (19-mm-) minimum.

2.4 MIXING

A. Comply with EIFS manufacturer's requirements for combining and mixing materials. Do not introduce admixtures, water, or other materials, except as recommended by EIFS manufacturer. Mix materials in clean containers. Use materials within time period specified by EIFS manufacturer or discard.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roof edges, wall framing, flashings, openings, substrates, and junctures at other construction for suitable conditions where EIFS will be installed.

C. Proceed with installation only after unsatisfactory conditions have been corrected.
1. Begin coating application only after surfaces are dry.
2. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Protect contiguous work from moisture deterioration and soiling caused by application of EIFS. Provide temporary covering and other protection needed to prevent spattering of exterior finish coats on other work.

B. Protect EIFS, substrates, and wall construction behind them from inclement weather during installation. Prevent penetration of moisture behind drainage plane of EIFS and deterioration of substrates.

C. Prepare and clean substrates to comply with EIFS manufacturer's written instructions to obtain optimum bond between substrate and adhesive for insulation.
1. Concrete Substrates: Provide clean, dry, neutral-pH substrate for insulation installation. Verify suitability of substrate by performing bond and moisture tests recommended by EIFS manufacturer.

3.3 INSTALLATION OF EIFS, GENERAL

A. Comply with ASTM C1397, ASTM E2511, and EIFS manufacturer's written instructions for installation of EIFS as applicable to each type of substrate indicated.

3.4 APPLICATION OF SUBSTRATE PROTECTION

A. Water-Resistive Barrier Coating: Apply over sheathing <**Insert substrate>** to provide a water-resistive barrier.
1. Tape and seal joints, exposed edges, terminations, and inside and outside corners of sheathing unless otherwise indicated by EIFS manufacturer's written instructions.

B. Flexible-Membrane Flashing: Install over water-resistive barrier coating, applied and lapped to shed water; seal at openings, penetrations, and terminations. Prime substrates with flashing primer if required and install flashing.

3.5 INSTALLATION OF TRIM

A. Trim: Apply trim accessories at perimeter of EIFS, at expansion joints, and elsewhere as indicated. Coordinate with installation of insulation.
   1. Weep Screed/Track: Use at bottom termination edges, at window and door heads off water-drainage EIFS unless otherwise indicated.
   2. Windowsill Flashing: Use at windows unless otherwise indicated.
   3. Expansion Joint: Use where indicated on Drawings.
   4. Casing Bead: Use at other locations.

3.6 INSTALLATION OF DRAINAGE MAT

A. Drainage Mat: Apply wrinkle free, continuously, with edges overlapped and mechanically secured with fasteners over water-resistive barrier coating.

3.7 INSTALLATION OF INSULATION

A. Board Insulation: Adhesively attach insulation to substrate in compliance with ASTM C1397 and the following:
   1. Apply adhesive to insulation by notched-trowel method, with notches oriented vertically to produce drainage channels that remain functional after the insulation is adhered to substrate.
   2. Apply adhesive to insulation by notched-trowel method in a manner that results in coating the entire surface of drainage mat with adhesive once insulation is adhered to drainage mat.
   3. Apply adhesive to ridges on back of channeled insulation by notched-trowel method in a manner that results in full adhesive contact over the entire surface of ridges, leaving channels free of adhesive once insulation is adhered to substrate.
   4. Press and slide insulation into place. Apply pressure over entire surface of insulation to accomplish uniform contact, high initial grab, and overall level surface.
   5. Allow adhered insulation to remain undisturbed for not less than 24 hours, before beginning rasping and sanding insulation or applying base coat and reinforcing mesh.
   6. Apply insulation over substrates in courses with long edges of boards oriented horizontally.
   7. Begin first course of insulation from a level base line and work upward.
   8. Begin first course of insulation from screed/track and work upward. Work from perimeter casing beads toward interior of panels if possible.
   9. Stagger vertical joints of insulation boards in successive courses to produce running bond pattern. Locate joints, so no piece of insulation is less than 12 inches (300 mm) wide or 6 inches (150 mm) high. Offset joints not less than 6 inches (150 mm) from corners of window and door openings.
      a. Adhesive Attachment: Offset joints of insulation not less than 6 inches (150 mm) from horizontal and 4 inches (100 mm) from vertical joints in sheathing.
      b. Mechanical Attachment: Offset joints of insulation from horizontal joints in sheathing.
   10. Apply channeled insulation, with drainage channels aligned vertically.
   11. Interlock ends at internal and external corners.
   12. Abut insulation tightly at joints within and between each course to produce flush, continuously even surfaces without gaps or raised edges between boards. If gaps greater than 1/16 inch (1.6 mm) occur, fill with insulation cut to fit gaps exactly; insert insulation without using adhesive or other material.
   13. Cut insulation to fit openings, corners, and projections precisely and to produce edges and shapes complying with details indicated.
   14. Rasp or sand flush entire surface of insulation to remove irregularities projecting more than 1/32 inch (0.8 mm) from surface of insulation and to remove yellowed areas due to sun exposure; do not create depressions deeper than 1/16 inch (1.6 mm). Prevent airborne dispersal and immediately collect insulation raspings or sandings.
   15. Cut aesthetic reveals in outside face of insulation with high-speed router and bit configured to produce grooves, rabbets, and other features that comply with profiles and locations indicated. Do not reduce insulation thickness at aesthetic reveals to less than 3/4 inch (19 mm).
   16. Interrupt insulation for expansion joints where indicated.
   17. Form joints for sealant application by leaving gaps between adjoining insulation edges and between insulation edges and dissimilar adjoining surfaces. Make gaps wide enough to produce joint widths indicated after encapsulating joint substrates with base coat and reinforcing mesh.

18. Form joints for sealant application with back-to-back casing beads for joints within EIFS and with perimeter casing beads at dissimilar adjoining surfaces. Make gaps between casing beads and between perimeter casing beads and adjoining surfaces of width indicated.
19. Before installing insulation and before applying field-applied reinforcing mesh, fully wrap board edges. Cover edges of board and extend encapsulating mesh not less than 2-1/2 inches (64 mm) over front and back face unless otherwise indicated on Drawings.
20. Treat exposed edges of insulation as follows:
    a. Except for edges forming substrates of sealant joints, encapsulate with base coat, reinforcing mesh, and finish coat.
    b. Encapsulate edges forming substrates of sealant joints within EIFS or between EIFS and other work with base coat and reinforcing mesh.
    c. At edges trimmed by accessories, extend base coat, reinforcing mesh, and finish coat over face leg of accessories.
21. Coordinate installation of flashing and insulation to produce wall assembly that does not allow water to penetrate behind flashing and water-resistive barrier coating.

B. Expansion Joints: Install at locations indicated, where required by EIFS manufacturer, and as follows:
1. At expansion joints in substrates behind EIFS.
2. Where EIFS adjoin dissimilar substrates, materials, and construction, including other EIFS.
3. At floor lines in multilevel wood-framed construction.
4. Where wall height or building shape changes.
5. Where EIFS manufacturer requires joints in long continuous elevations.

3.8 APPLICATION OF BASE COAT

A. Water-Resistant Base Coat: Apply full-thickness coverage to exposed insulation and to exposed surfaces indicated on Drawings.

B. Reinforcing Mesh: Embed reinforcing mesh in wet base coat to produce wrinkle-free installation with mesh continuous at corners, overlapped not less than 2-1/2 inches (64 mm) or otherwise treated at joints to comply with ASTM C1397. Do not lap reinforcing mesh within 8 inches (200 mm) of corners. Completely embed mesh, applying additional base-coat material if necessary, so reinforcing-mesh color and pattern are invisible.

C. Double-Layer Reinforcing-Mesh Application: Where indicated or required, apply second base coat and second layer of reinforcing mesh, overlapped not less than 2-1/2 inches (64 mm) or otherwise treated at joints to comply with ASTM C1397 in same manner as first application. Do not apply until first base coat has cured.

D. Additional Reinforcing Mesh: Apply strip-reinforcing mesh around openings, extending 4 inches (100 mm) beyond perimeter. Apply additional 9-by-12-inch (230-by-300-mm) strip-reinforcing mesh diagonally at corners of openings (re-entrant corners). Apply 8-inch- (200-mm-) wide, strip-reinforcing mesh at both inside and outside corners unless base layer of mesh is lapped not less than 4 inches (100 mm) on each side of corners.
1. Embed strip-reinforcing mesh in base coat before applying first layer of reinforcing mesh.

E. Foam Buildouts: Fully embed reinforcing mesh in base coat.

F. Double Base-Coat Application: Where indicated, apply second base coat in same manner and thickness as first application, except without reinforcing mesh. Do not apply until first base coat has cured.

3.9 APPLICATION OF FINISH COAT

A. Primer: Apply over dry base coat.

B. Finish Coat: Apply full-thickness coverage over dry primed base coat, maintaining a wet edge at all times for uniform appearance, to produce a uniform finish of color and texture matching approved sample and free of cold joints, shadow lines, and texture variations.
1. Embed aggregate in finish coat to produce a uniform applied-aggregate finish of color and texture matching approved sample.

C. Sealer Coat: Apply over dry finish coat, in number of coats and thickness required by EIFS manufacturer.

3.10 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:
   1. Water-resistive barrier coatings applied over sheathing.

B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

C. EIFS Tests and Inspections: In accordance with ASTM E2359/E2359M.

D. EIFS will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

3.11 CLEANING AND PROTECTION

A. Remove temporary covering and protection of other work. Promptly remove coating materials from window and door frames and other surfaces outside areas indicated to receive EIFS coatings.

END OF SECTION 07 24 19

SECTION 09 24 00 - CEMENT PLASTERING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Metal lath.
2. Base-coat cement plaster.
3. Cement plaster finish coats.
4. Accessories.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data:

1. Metal lath.
2. Base-coat cement plaster.
3. Cement plaster finish coats.
4. Accessories.

B. Shop Drawings: Show locations and installation of control and expansion joints, including plans, elevations, sections, details of components, and attachments to other work.

C. Samples: For each type of factory-prepared finish coat and for each color and texture specified.

D. Samples for Initial Selection: For each type of factory-prepared finish coat and for each color and texture specified.

E. Samples for Verification: For each type of factory-prepared finish coat and for each color and texture specified, 12 by 12 inches (305 by 305 mm), and prepared on rigid backing.

1.4 MOCKUPS

A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Build mockups for each substrate and finish texture indicated for cement plastering, including accessories.
a. Size: 100 sq. ft. in surface area.
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. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

A. Store materials inside under cover, and keep them dry and protected against damage from weather, moisture, direct sunlight, surface contamination, corrosion, construction traffic, and other causes.

1.6 FIELD CONDITIONS

A. Comply with ASTM C926 requirements.

B. Exterior Plasterwork:
1. Apply and cure plaster to prevent plaster drying out during curing period. Use procedures required by climatic conditions, including moist curing, providing coverings, and providing barriers to deflect sunlight and wind.
2. Apply plaster when ambient temperature is greater than 40 deg F (4.4 deg C).
3. Protect plaster coats from freezing for not less than 48 hours after set of plaster coat has occurred.

C. Factory-Prepared Finishes: Comply with manufacturer's written recommendations for environmental conditions for applying finishes.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain plaster materials from single source from single manufacturer.

2.2 METAL LATH

A. Expanded-Metal Lath: ASTM C847, cold-rolled carbon-steel sheet with ASTM A653/A653M, G60 (Z180), hot-dip galvanized-zinc coating.
1. Basis of design product: Subject to compliance with requirements provide product by CEMCO, California Expanded Metal Products Co. Expanded Metal or comparable product by one of the following:
a. Alabama Metal Industries Company; a Gibraltar Industries company
b. Clark Dietrich.
c. Marino WARE.

2. Diamond-Mesh Lath: Self-furring, 3.4 lb/sq. yd. (1.8 kg/sq. m).

2.3 BASE-COAT CEMENT PLASTER

A. General: Comply with ASTM C926 for applications indicated.
1. Fiber Content: Add fiber to base-coat mixes after ingredients have mixed at least two minutes. Comply with fiber manufacturer's written instructions for fiber quantities in mixes, but do not exceed 1 lb of fiber/cu. yd. (0.6 kg of fiber/cu. m) of cementitious materials.

B. Basis of Design Product: Subject to compliance with requirements, provide

1. StucCoat One-Coat System as manufactured by Drvyit/Tremco CPG Inc., or equal approved, consisting of cement plaster stucco cladding assembly installed as a 2-coat scratch and brown conventional application at a minimum of 7/8 inch thickness, including the following materials:
a. Cement Plaster base coat
1) A factory prepared, dry blended, fiber-reinforced, modified Portland cement when mixed with proper type and amount of water forms a stucco plaster paste.
b. Crack isolation membrane: provide fiberglass mesh reinforced base coat laminary layer applied over minimum 7-day cured plaster material surface.
1) Base Coat: Cementitious polymer-based material as manufactured by Dryvit/Temco CPP inc. and supplied by authorized distributor.
a) Genisis DM: A ready mixed dry blend cementitious, copolymer-based fiber reinforced base coat field mixed with water.
c. Reinforcing mesh: Material approved and supplied by Dryvit/Tremco CPG authorized distributor.
1) StucCoat Reinforcing Mesh: an open-weave, glass fiber fabric treated for compatibility with crack isolation membrane base coat.
d. Primer Coating: A water-based, pigmented acrylic primer applied over fully cured reinforced crack isolation membrane base coat to improve adhesion and provide a more uniform appearance.
1) Color: Color Prime as manufactured by Dryvit/Tremco CPG Inc. and supplied by authorized distributor.

2.4 CEMENT PLASTER FINISH COATS

A. Acrylic-Based Finish Coatings: Factory-mixed acrylic-emulsion coating systems formulated with colorfast mineral pigments and fine aggregates; for use over cement plaster base coats. Include manufacturer's recommended primers and sealing topcoats for acrylic-based finishes.

B. Basis of Design Product: HDP Finish as manufactured by Dryvit, or equivalent approved.
1. Color: Custom color match as selected by Architect to match district's brand color – maroon.
2. Texture: As selected by Architect from manufacturer's standard range (Quartzputz, Sandpebble or Sandblast).

2.5 ACCESSORIES

A. General: Comply with ASTM C1063, and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.

B. Metal Accessories:
1. Depth of accessories (grounds) shall be sized for the plaster thickness.
2. Foundation Weep Screed: Fabricated from hot-dip galvanized-steel sheet, ASTM A653/A653M, G60 (Z180) zinc coating.
3. Cornerite: Fabricated from metal lath with ASTM A653/A653M, G60 (Z180), hot-dip galvanized-zinc coating.
4. External- (Outside-) Corner Reinforcement: Fabricated from metal lath with ASTM A653/A653M, G60 (Z180), hot-dip galvanized-zinc coating.
5. Cornerbeads: Fabricated from anodized aluminum.
   a. Smallnose cornerbead with expanded flanges; use unless otherwise indicated.
   b. Smallnose cornerbead with perforated flanges; use on curved corners.
   c. Smallnose cornerbead with expanded flanges reinforced by perforated stiffening rib; use on columns and for finishing unit masonry corners.
   d. Bullnose cornerbead, radius 3/4 inch (19 mm) minimum, with expanded flanges; use at locations indicated on Drawings.
6. Casing Beads: Fabricated from anodized aluminum; square-edged style; with expanded flanges.
7. Control Joints: Fabricated from zinc or zinc-coated galvanized steel; one-piece-type, folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face of control joint.
8. Expansion Joints: Fabricated from zinc or zinc-coated galvanized steel; folded pair of unperforated screeds in M-shaped configuration; with expanded flanges.
9. Two-Piece Expansion Joints: Fabricated from anodized aluminum; formed to produce slip-joint and square-edged reveal that is adjustable from 1/4 to 5/8 inch (6 to 16 mm) wide; with perforated flanges.
10. Provide fasteners for accessory trim which are corrosion resistant/galvanized, appropriate for underlying substrate, meet structural design requirements with proper size, type, length and penetration and complying with ASTM C1063 and IAMPO evaluation report #382.

2.6 PLASTER MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I.
1. Color for Finish Coats: Gray.

B. Masonry Cement: ASTM C91/C91M, Type N.
1. Color for Finish Coast: Gray.

C. Plastic Cement: ASTM C1328/C1328M.

D. Colorants for Job-Mixed Finish Coats: Colorfast mineral pigments that produce finish plaster color to match Architect's sample.

E. Lime: ASTM C206, Type S; or ASTM C207, Type S.

F. Sand Aggregate: ASTM C897.
1. Color for Job-Mixed Finish Coats: In color matching Architect's sample.

2.7 MISCELLANEOUS MATERIALS

A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.

B. Fiber for Base Coat: Alkaline-resistant glass or polypropylene fibers, 1/2 inch (13 mm) long, free of contaminants, manufactured for use in cement plaster.

C. Bonding Compound: ASTM C932.

D. Fasteners for Attaching Metal Lath to Substrates: ASTM C1063.

E. Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, not less than 0.0475-inch (1.21-mm) diameter unless otherwise indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect adjacent work from soiling, spattering, moisture deterioration, and other harmful effects caused by plastering.

B. Prepare smooth, solid substrates for plaster in accordance with ASTM C926.

3.3 INSTALLATION OF ACCESSORIES

A. Install in accordance with ASTM C1063 and at locations indicated on Drawings.

B. Reinforcement for External (Outside) Corners:
1. Install **c**ornerbead at exterior locations.

C. Control Joints: Locate as approved by Architect for visual effect and as follows:
1. As required to delineate plasterwork into areas (panels) of the following maximum sizes:
   a. Vertical Surfaces: 144 sq. ft. (13.4 sq. m).
   b. Horizontal and Other Nonvertical Surfaces: 100 sq. ft. (9.3 sq. m).
2. At distances between control joints of not greater than 18 feet (5.5 m) o.c.
3. As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2-1/2:1.
4. Where control joints occur in surface of construction directly behind plaster.
5. Where plasterwork areas change dimensions, to delineate rectangular-shaped areas (panels) and to relieve the stress that occurs at the corner formed by the dimension change.

3.4 APPLICATION OF BASE-COAT CEMENT PLASTER

A. General: Comply with ASTM C926.
1. Do not deviate more than plus or minus 1/4 inch in 10 feet (6 mm in 3 m) from a true plane in finished plaster surfaces when measured by a 10-foot (3-m) straightedge placed on surface.
2. Finish plaster flush with metal frames and other built-in metal items or accessories that act as a plaster ground unless otherwise indicated. Where casing bead does not terminate plaster at metal frame, cut base coat free from metal frame before plaster sets and groove finish coat at junctures with metal.
3. Provide plaster surfaces that are ready to receive field-applied finishes indicated.

B. Bonding Compound: Apply on unit masonry substrates for direct application of plaster.

C. Walls; Base-Coat Mix: For base (scratch) coat, for two-coat plasterwork and having 3/8-inch (10-mm) thickness on masonry, as follows:
   1. Portland cement mix.

3.5 APPLICATION OF CEMENT PLASTER FINISH COATS

A. Acrylic-Based Finish Coatings: Apply coating system, including primers, finish coats, and sealing topcoats, according to manufacturer's written instructions.

B. Concealed Exterior Plasterwork: Where plaster application is used as a base for adhered finishes, omit finish coat.

3.6 REPAIR

A. Repair or replace work to eliminate cracks, dents, blisters, buckles, crazing and check cracking, dry outs, efflorescence, sweat outs, and similar defects and where bond to substrate has failed.

3.7 CLEANING

A. Remove temporary protection and enclosure of other work after plastering is complete.

B. Promptly remove plaster from door frames, windows, and other surfaces not indicated to be plastered.

C. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.

END OF SECTION 09 24 00

SECTION 22 47 00 - WATER COOLERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following water coolers and related components:

1. Bottle Filling Station.
2. Fixture supports.

1.3 DEFINITIONS

A. Accessible Bottle Filling Station: Fixture that can be approached and used by people with disabilities.

B. Cast Polymer: Dense, cast-filled-polymer plastic.

C. Fitting: Device that controls flow of water into or out of fixture.

D. Fixture: Water cooler unless one is specifically indicated.

E. Water Cooler: Electrically powered fixture for generating and delivering cooled drinking water.

F. Drinking Fountain: Fixture with nozzle for delivering stream of water for drinking.

1.4 SUBMITTALS

A. Product Data: For each fixture indicated. Include rated capacities, furnished specialties, and accessories.

B. Shop Drawings: Diagram power, signal, and control wiring.

C. Field quality-control test reports.

D. Operation and Maintenance Data: For fixtures to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for fixtures for people with disabilities.

B. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.

PART 2 - PRODUCTS

2.1 BOTTLE FILLING STATION

A. Bottle Filler, P-6 (Accessible):

1. Manufacturers: Basis of Design Product: Subject to compliance with requirements, provide Elkay Outdoor ezH2O Single Arm Bottle Filling Statin Wall Mount, non-filtered, non-refrigerated or a comparable product by one of the following:

   a. Haws Corporation.
   b. Oasis Corporation.

2. Description: Accessible, wall-mounted bottle filler.

   a. Cabinet: heavy duty, vandal resistant, 300 series satinless.
   b. Bubbler: no bubbler.
   c. Control: Front button.
   d. Supply: NPS 3/8 (DN 10) with ball, gate, or globe valve.
   e. Drain(s): Grid with NPS 1-1/4 (DN 32) minimum horizontal waste and trap complying with ASME A112.18.1.
   f. Cooling System: Non-refrigerated
   g. Support: wall mounting structure must be capable of supporting 300 lb load minimum. To secure unit, use 3/8” minimum fasteners.
   h. Filter: Without filter
   i. P-trap; not included, to be provided and installed in the wall by the plumbing contractor.
   j. Water supply: plumbing contractor to provide and install service stop per manufacturer’s recommendations.

3. Standards: ADA, ICC A 117.1, NSF/ANSI 61 and 372.

2.2 FIXTURE SUPPORTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Josam Co.
2. MIFAB Manufacturing, Inc.
3. Smith, Jay R. Mfg. Co.
4. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
5. Wade.
6. Zurn Plumbing Products Group.
7. Elkay

B. Description: ASME A112.6.1M, water cooler carriers. Include vertical, steel uprights with feet and tie rods and bearing plates with mounting studs matching fixture to be supported.

1. Type I: Hanger type carrier with two vertical uprights.
2. Supports for accessible fixtures: Include rectangular, vertical, steel uprights instead of steel pipe uprights.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in for water and waste piping systems to verify actual locations of piping connections before fixture installation. Verify that sizes and locations of piping and types of supports match those indicated.

B. Examine walls and floors for suitable conditions where fixtures are to be installed.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATIONS

A. Use carrier off-floor supports for wall-mounting fixtures, unless otherwise indicated.

B. Use mounting frames for recessed water coolers, unless otherwise indicated.

C. Set freestanding and pedestal drinking fountains on floor.

D. Set remote water coolers on floor, unless otherwise indicated.

E. Use chrome-plated brass or copper tube, fittings, and valves in locations exposed to view. Plain copper tube, fittings, and valves may be used in concealed locations.

3.3 INSTALLATION

A. Install off-floor supports affixed to building substrate and attach wall-mounting fixtures, unless otherwise indicated.

B. Install fixtures level and plumb. For fixtures indicated for children, install at height required by authorities having jurisdiction.

C. Install water-supply piping with shutoff valve on supply to each fixture to be connected to water distribution piping. Use ball, gate, or globe valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Division 22 Section "General-Duty Valves for Plumbing Piping."

D. Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.

E. Install pipe escutcheons at wall penetrations in exposed, finished locations. Use deep-pattern escutcheons where required to conceal protruding pipe fittings. Escutcheons are specified in Division 22 Section "Escutcheons for Plumbing Piping."

F. Seal joints between fixtures and walls and floors using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 07 Section "Joint Sealants."

G. Install mounting frames affixed to building construction and attach recessed, wall-mounted bottle filler to mounting frames.

3.4 CONNECTIONS

A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

C. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."

D. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.5 FIELD QUALITY CONTROL

A. Bottle Filler Testing: Test for compliance with requirements. Test and adjust controls and safeties.

1. Remove and replace malfunctioning units and retest as specified above.
2. Report test results in writing.

3.6 ADJUSTING

A. Adjust fixture flow regulators for proper flow and stream height.

3.7 CLEANING

A. After completing fixture installation, inspect unit. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.

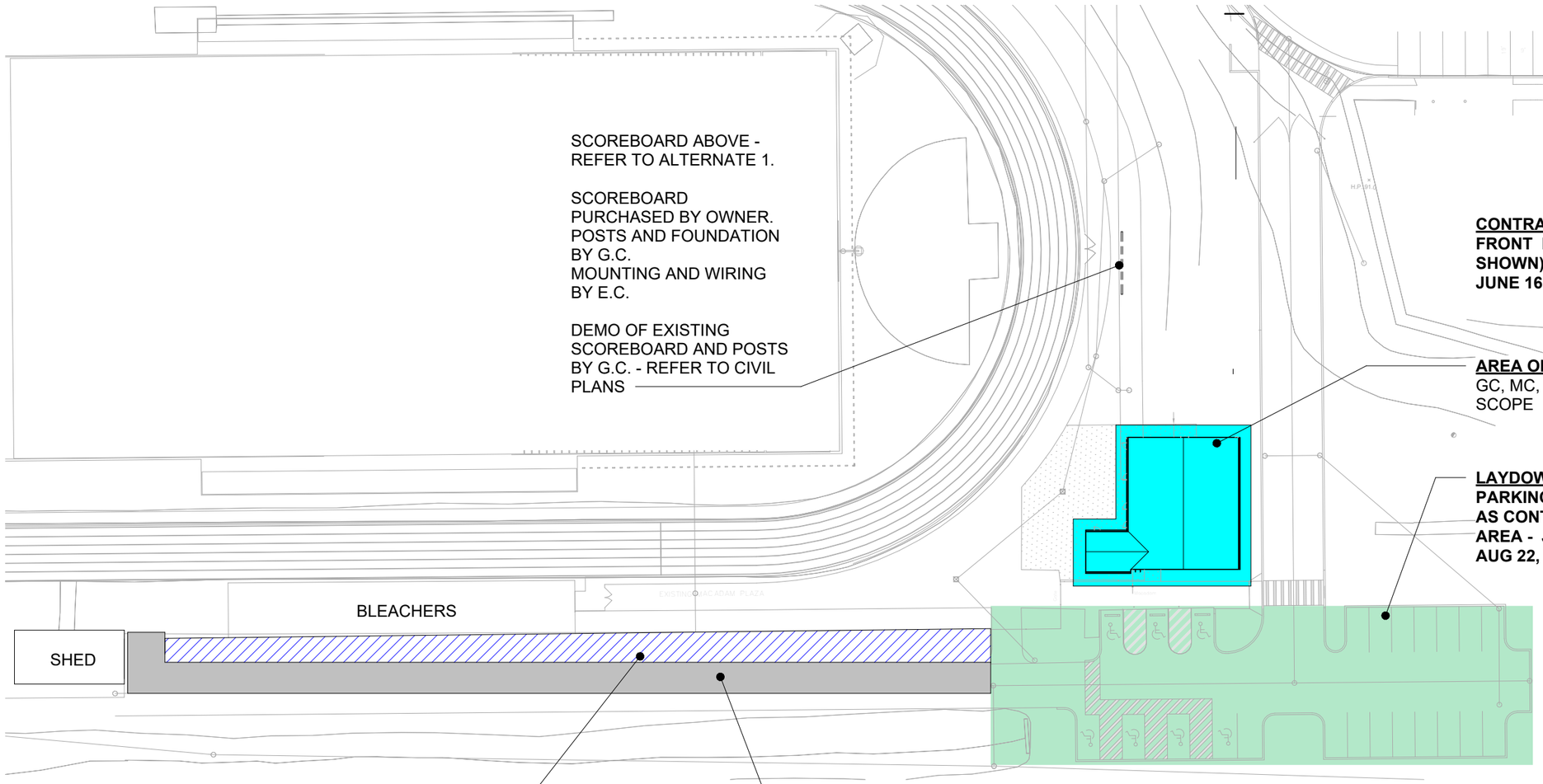
B. Clean fixtures, on completion of installation, according to manufacturer's written instructions.

3.8 WARRANTY

A. Provide five (5) year warranty for bottle filler and a five (5) year parts, labor warranty.

B. Warranty shall start at substantial completion.

END OF SECTION 22 47 00



1 CONTRACT SCOPE AND SITE STAGING PLAN - REVISED

ASK-1 1" = 50'-0"

NOTE: SCHOOL BUILDINGS, DRIVEWAYS, PARKING LOTS AND STADIUM FACILITY WILL BE OCCUPIED AND IN USE BY OWNER UNTIL JUNE 16, 2025 AND STARTING AGAIN AFTER AUGUST 22, 2025.

SKETCH SHEET REFERENCE DWG. NUMBER: A1.1

MAROTTA/MAIN ARCHITECTS
WWW.MAROTTAMAIN.COM

NEW STADIUM RESTROOMS
CHICHESTER HIGH SCHOOL
CHICHESTER SCHOOL DISTRICT
3333 CHICHESTER AVE,
BOOTHWYN, PA 19061

DRAWN BY: CDK

DATE: 04/11/25

SHEET TITLE: SITE STAGING PLAN

SHEET NUMBER: ASK-1

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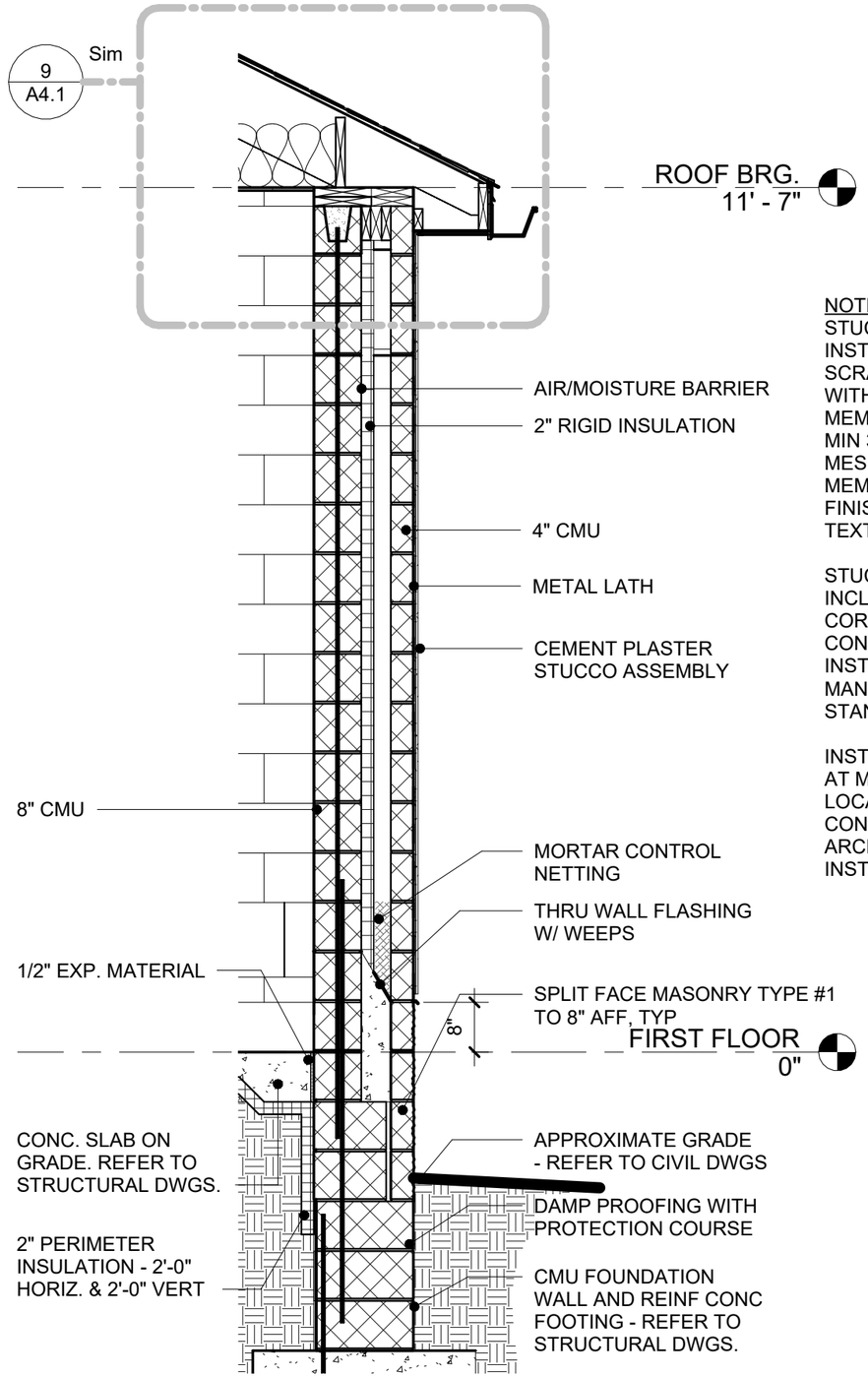


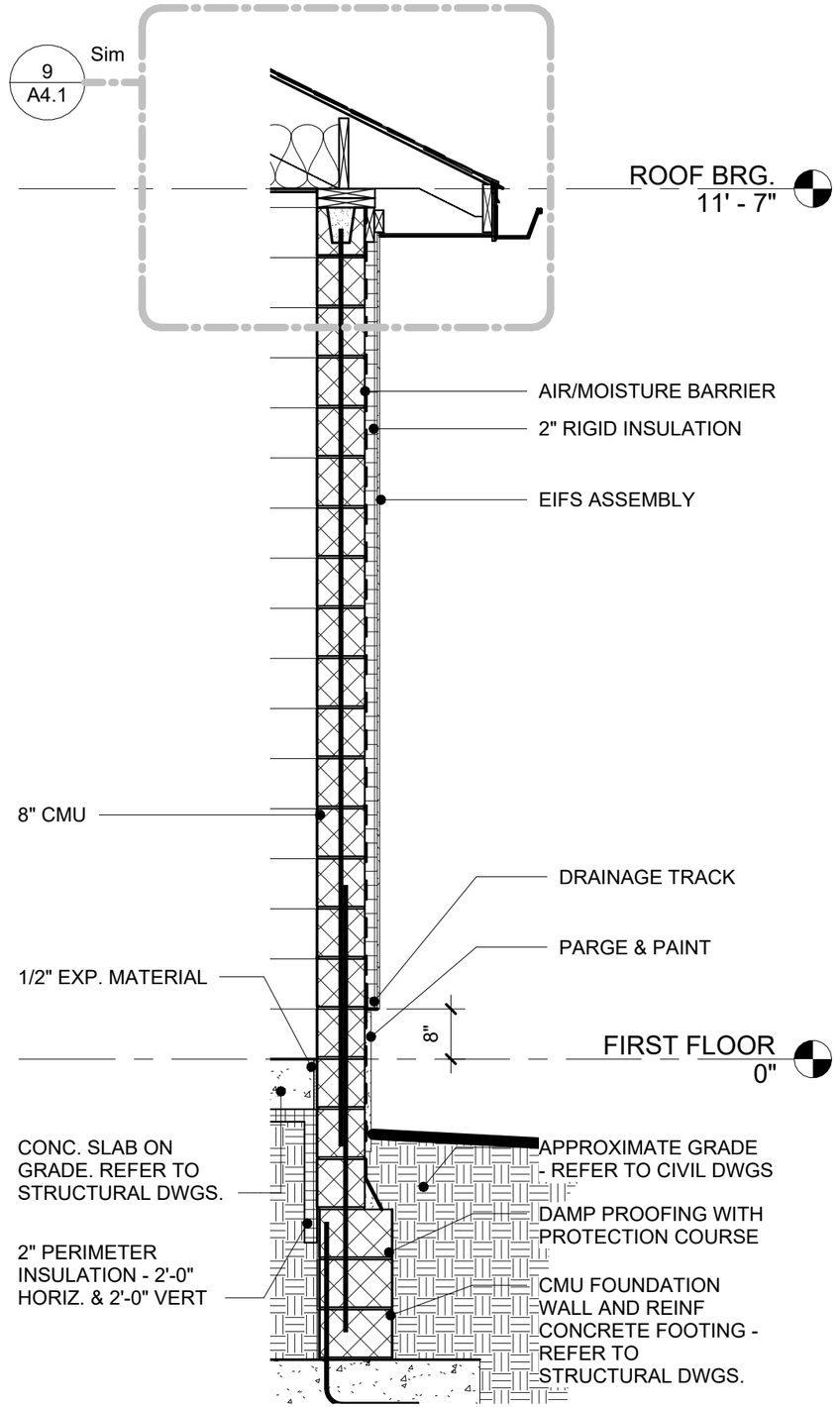
NOTE: CEMENT PLASTER STUCCO ASSEMBLY TO BE INSTALLED AS TWO-COAT SCRATCH AND BROWN WITH CRACK ISOLATION MEMBRANE BASE COAT, MIN 3/8", REINFORCING MESH, CRACK ISOLATION MEMBRANE, PRIMER AND FINISH COAT WITH TEXTURED ACRYLIC FINISH

STUCCO ASSEMBLY TO INCLUDE CASING BEADS, CORNER BEADS AND CONTROL JOINT TRIMS INSTALLED TO MANUFACTURER'S STANDARD DETAILS.

INSTALL CONTROL JOINTS AT MIN 12'-0" SPACING, LOCATIONS TO BE CONFIRMED WITH ARCHITECT BEFORE INSTALLATION.

1 ASK-2 TYPICAL EXTERIOR WALL - ALTERNATE 09A

1/2" = 1'-0"



2 ASK-2 TYPICAL EXTERIOR WALL - ALTERNATE 07A

1/2" = 1'-0"

SKETCH SHEET REFERENCE DWG. NUMBER: A3.1,A4.1

MAROTTA/MAIN ARCHITECTS
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NEW STADIUM RESTROOMS
CHICHESTER HIGH SCHOOL
CHICHESTER SCHOOL DISTRICT

3333 CHICHESTER AVE,
BOOTHWYN, PA 19061

DRAWN BY: CDK

DATE: 04/08/25

SHEET TITLE:
ALTERNATES 07A AND 09A

SHEET NUMBER:
ASK-2

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GENERAL STRUCTURAL NOTES

WOOD FRAMING NOTES CONT.:

13. All plates, anchors, nails, bolts, nuts, washers, and other miscellaneous hardware shall be hot dip galvanized.

14. All plates, anchors, nails, bolts, nuts, washers, and other miscellaneous hardware to be in permanent contact with wood treated with Alkaline Copper Quat and/or Copper Azole shall be hot dipped galvanized (coating G185) or stainless steel type 304 or 316. Galvanized and stainless steel fasteners and connects shall not be used simultaneously in any one connection.

POST-INSTALLED ANCHOR NOTES

1. Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types as provided by HILTI, Inc. Contact HILTI at (800) 879-8000 for product related questions.
   A. Anchorage to solid grouted masonry
      1. Adhesive anchors use:
         A. HILTI HIT-HY 270 safe set system with HILTI hollow drill bit and vacuum per ICC ESR-4143
         B. Steel anchor element shall be HILTI has continuously threaded rod or continuously deformed steel rebar
      2. Mechanical anchors use:
         A. HILTI KWIK BOLT-TZ2 expansion anchor per ICC ESR-4561

2. Anchor capacity used in design shall be based on the technical data published by HILTI or other such method as approved by the structural engineer of record. Substitution requests for alternate products must be approved in writing by the structural engineer of record prior to use. Contractor shall provide calculations that have been sealed by another licensed engineer demonstrating that the substituted product is capable of meeting the performance of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature, installation temperature, moisture condition of concrete, and drilling methods.

3. Use of diamond core bit with roughening tool for anchor holes requires approval from engineer of record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.

4. Install anchors per the manufacturer's printed installation instructions, as included in the anchor packaging.

5. Overhead adhesive anchors must be installed using the HILTI Profi Piston Plug System.

6. ACI/CRSI adhesive anchor installer certification is required for all installers of adhesive anchors in horizontal or upwardly inclined orientation. The HILTI Adhesive Anchor Installer Certification Program (HAAICP) is an approved equivalent.

7. The contractor shall arrange an anchor manufacturer's representative to provide onsite installation training for all anchor products specified. The structural engineer of record must receive documented confirmation that all personnel who install anchors are trained prior to the commencement of anchor installation.

8. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

SCHEDULE OF SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE(S) BELOW.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS:
IBC 2018 TABLE 1705.6 & GEOTECHNICAL REPORT

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION:
IBC 2018 TABLE 1705.3

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	—	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1–26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	— — X	X X —	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X —	— X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	—
5. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3–26.5.5	1908.9
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(b)	—

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM [1]	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) ∅ JOINT PENETRATIONS ∅ DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) ∅ CLEANLINESS (CONDITION OF STEEL SURFACES) ∅ TACKING (TACK WELD QUALITY AND LOCATION) ∅ BACKING TYPE AND FIT (IF APPLICABLE)	O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) ∅ JOINT PENETRATIONS ∅ DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) ∅ CLEANLINESS (CONDITION OF STEEL SURFACES) ∅ TACKING (TACK WELD QUALITY AND LOCATION)	P	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS ∅ DIMENSIONS (ALIGNMENT, GAPS AT ROOT) ∅ CLEANLINESS (CONDITION OF STEEL SURFACES) ∅ TACKING (TACK WELD QUALITY AND LOCATION	O	O
CHECK WELDING EQUIPMENT	O	—

[1] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED, STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE-STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	QC	QA
USE QUALIFIED WELDERS	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES ∅ PACKAGING ∅ EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS ∅ WIND SPEED WITHIN LIMITS ∅ PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED ∅ SETTINGS ON WELDING EQUIPMENT ∅ TRAVEL SPEED ∅ SELECTING WELDING MATERIALS ∅ SHIELDING GAD TYPE/FLOW RATE ∅ PREHEAD APPLIED ∅ INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) ∅ PROPER POSITION (F, V, H, OH)	O	O
WELDING TECHNIQUES ∅ INTERPASS AND FINAL CLEANING ∅ EACH PASS WITHIN PROFILE LIMITATIONS ∅ EACH PASS MEETS QUALITY REQUIREMENTS	O	O

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE-STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY. 2

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA ∅ CRACK PROHIBITION ∅ WELD/BASE-METAL FUSION ∅ CRATER CROSS SECTION ∅ WEKD PROFILES ∅ WELD SIZE ∅ UNDERCUT ∅ POROSITY	P	P
ARC STRIKES	P	P
k-AREA[1]	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

[1] WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN (77 MM) OF THE WELD.

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE-STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:
IBC 2018 1705.2.1 & AISC 360-16

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
DOCUMENT APPECTANCE OR REJECTION OF BOLT CONNECTIONS	P	P

STRUCTURAL STEEL NOTES:
1. *QUALITY CONTROL* (QC) – SHALL BE PROVIDED BY THE FABRICATOR OR ERECTOR
2. *QUALITY ASSURANCE* (QA) – SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE *AUTHORITY HAVING JURISDICTION* (AHJ), *APPLICABLE BULDING CODE* (ABC), PURCHASER, OWNER, OR *ENGINEER OF RECORD* (EOR).
3. O – OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
4. P – PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, AND/OR EACH STEEL ELEMENT.

2

REQUIRED SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION:
IBC 2018 1705.4 & TMS 402/ACI 520/ASCE5 & TMS 602/ACI 530.1/ASCE 6

TABLE 3.1.2 – LEVEL B QUALITY ASSURANCE

MINIMUM TESTS

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT

VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE

MINIMUM SPECIAL INSPECTION

INSPECTION TASKS	FREQUENCY (a)		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ ASCE 5	TMS 602/ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		Art. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. PROPORTIOINS OF SITE-PREPARED MORTAR		X		Art. 2.1, 2.6 A
B. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
C. LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES		X		Art. 3.4 B, 3.6 A
3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
A. GROUT SPACE		X		Art. 3.2 D, 3.2 F
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		X	SEC. 6.1	Art. 2.4, 3.4
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORS		X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
D. PROPORTIONS OF SITE-PREPARED GROUT		X		Art. 2.6 B, 2.4 G.1.b
E. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
4. VERIFY DURING CONSTRUCTION				
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		Art. 3.3 F
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1 (e), 6.1.4.3, 6.2.1	
C. WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4 (b)	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X		Art. 1.8 C, 1.8 D
E. PLACEMENT OF GROUT IS IN COMPLIANCE	X			Art. 3.5, 3.6 C
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		Art. 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	COMMENTS
SF-36	CONT. 3'-0" x 1'-0"	(4) #5 LONG. & #5 @ 24" O.C. TRANSV.	CONT. FTG.

PROJECT LINTEL SCHEDULE (U.N.O. ON PLANS/DETAILS)

NEW INTERIOR MASONRY WALLS	
MASONRY OPENING	LINTEL
0' < M.O. ≤ 6'-4" (4", 8", 12", 16", 20" CMU)	P.C. 4x8 PER 4" OF WALL THICKNESS (4", 8", 12", 16", 20" CMU)
0' < M.O. ≤ 6'-4" (6" CMU)	P.C. 6x8
NEW EXTERIOR MASONRY WALLS	
MASONRY OPENING W/ BRICK	LINTEL
0' < M.O. ≤ 6'-4" (8" CMU + VENEER)	P.C. 4x8 PER 4" OF WALL THICKNESS + L5x3 1/2x5/16 (LLV) FOR VENEER

NOTES:
1. ALL STEEL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
2. P.C. LINTELS TO BE REINFORCED WITH #3 TOP & #4 BOTTOM U.N.O.
3. PROVIDE MIN. 8" BEARING EACH END OF LINTEL BEARING ON MASONRY, U.N.O.
4. LINTELS ARE REQUIRED AT OPENINGS OF MORE THAN 12" FOR BRICK-SIZE UNITS AND 24" FOR BLOCK-SIZE UNITS U.N.O. IF LESS THAN 8" OF MASONRY EXISTS BETWEEN ADJACENT OPENINGS THEY SHALL BE CONSIDERED AS ONE SINGLE OPENING.
5. REFER TO E/S-2.0 FOR TYPICAL LINTEL DETAIL.

NAILING SCHEDULE

FRAMING CONDITION	TYPE	COMMON NAILS
BRIDGING TO JOIST	TOE NAIL	(2) 8d
DOUBLE TOP PLATES	FACE NAIL	16d @ 16"O.C.
TOP PLATES LAPS & INTERSECTIONS	TOE NAIL	(2) 16d
ROOF TRUSS TO PLATE	SEE SECTION	FRAMING ANCHOR
PLYWOOD SHEATHING TO STUDS & RIM BAND	@ EDGES	10d @ 6"O.C.
	INTERMEDIATE	10d @ 12"O.C.
PLYWOOD ROOF DECK TO RAFTERS OR TRUSSES	@ EDGES	8d @ 6"O.C.
	INTERMEDIATE	8d @ 6"O.C.

NOTE:
PROVIDE STEEL PLATE CONNECTORS W/ MANUFACTURER'S NAILS WHERE INDICATED IN SCHEDULE AND ON DRAWINGS.

MAROTTA/MAIN ARCHITECTS
WWW.MAROTTAMAIN.COM

CONSULTANT:
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NEW TEAM ROOMS AND STADIUM RENOVATIONS FOR
CHICHESTER HIGH SCHOOL
CHICHESTER SCHOOL HIGH SCHOOL
3333 CHICHESTER AVE
BOOTHWYN, PA 19061

ISSUE DATES
DATE: DESCRIPTION:
03/17/2025 PERMIT SET
03/31/2025 BID SET
04/11/2025 ADDENDUM 02

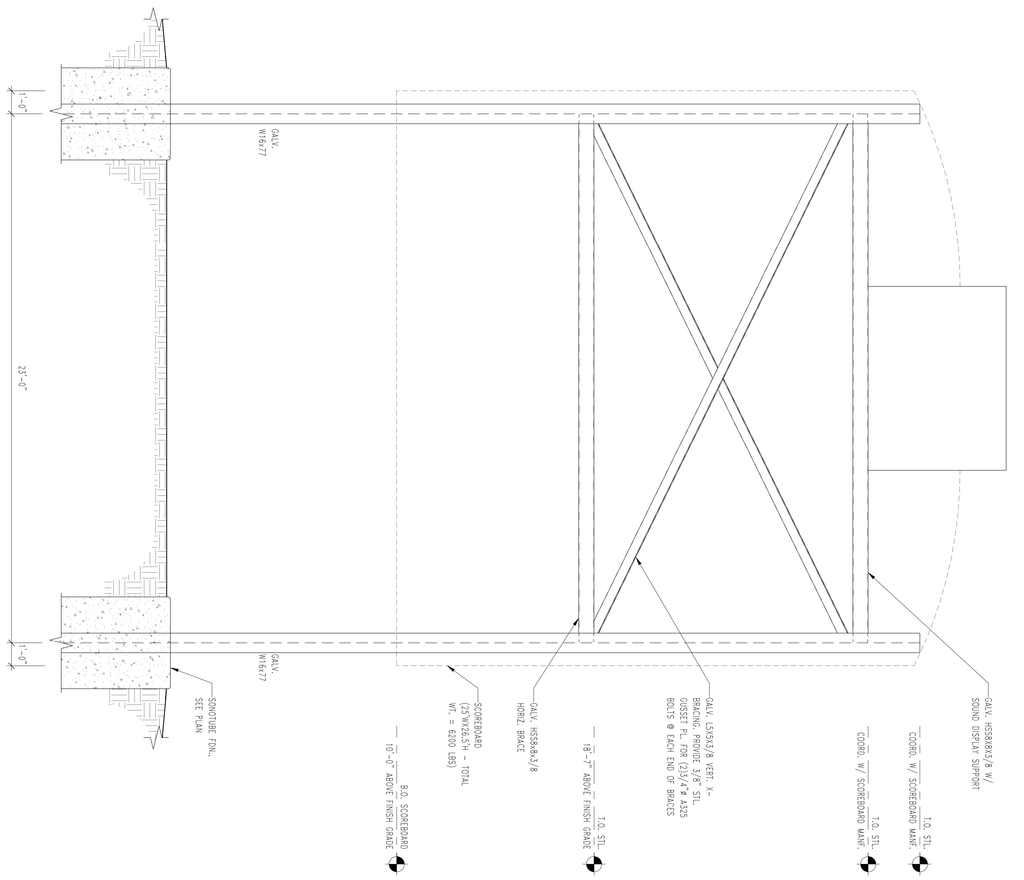
PROJ # : MM2503 DRAWN BY : RK

SHEET TITLE:
GENERAL STRUCTURAL NOTES & SCHEDULES

SHEET NUMBER:
S-0.1

ADDENDUM 02

4/11/2025 11:36:04 AM



3 S-1.1 SCOREBOARD STL. ELEVATION - ADD ALT. 1
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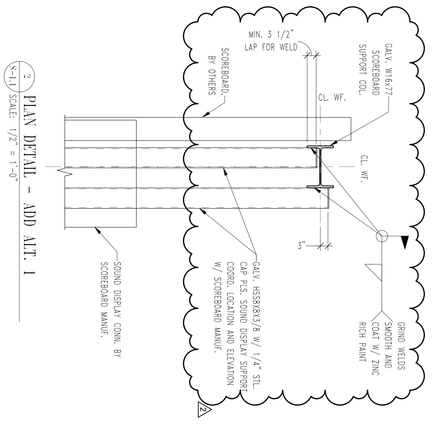

2 S-1.1 PLAN DETAIL - ADD ALT. 1
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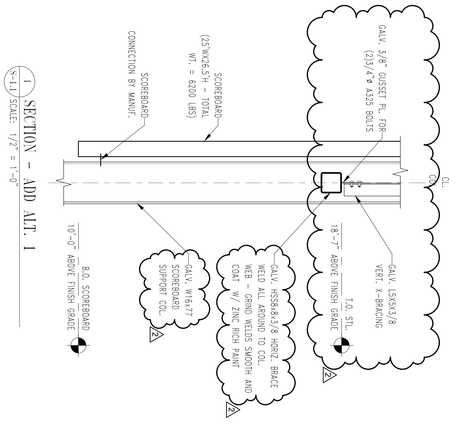

1 S-1.1 SECTION - ADD ALT. 1
SCALE: 1/2" = 1'-0"

ISSUE DATES

DATE:	DESCRIPTION:
04/11/2025	ADDENDUM 02

NEW TEAM ROOMS AND STADIUM RENOVATIONS FOR

CHICHESTER HIGH SCHOOL

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PROJ #: MM2503 DRAWN BY: RK

SHEET TITLE:
SCOREBOARD SECTIONS & ELEVATION - ADD ALT. 1

SHEET NUMBER:
S-1.1

ADDENDUM 02