Troy School District

RFP #2425-09 - Addendum #1
BP#2B High School Athletics - Phase #2
January 21st, 2025

Content Included in this Addendum:

Cover Page (1 Page)
Barton Malow Write Up (6 Pages)
TMP Architecture Addendum #1 Write-Up (44 Pages)
Pre-Bid Walk Through Sign-In Sheet (1 Page)

TOTAL PAGES: 52 Pages

January 21, 2025

Troy Schools District – RFP #2425-09 BP#2B High School Athletics Renovations - Phase #2

Addendum #1 Bidder Clarifications

A. General Clarifications

- Project bid due date has been extended 1 week. The new bid due date is **1/28/25 @ 2PM**. No change to the bid submittal process and location.
- **Construction Milestones for Project**
  - Troy High School
    - Tennis Courts: **May 19th-September 1st**
    - Parking lot, sidewalks, concessions building, tickets building, existing toilet building: **March 12th-August 8th**
  - Athens High School
    - Dirt and artificial turf fields and connecting concourses: **June 2nd-September 19th**
    - Track and Field: **June 2nd-August 8th**
- Reference Note #8 on Drawing C-3.0 for Athens High School and correlating G2 report for geotechnical investigation report.
- Below is the schedule for post bid interviews. If BMB chooses your company for this process, you must have a representative available during this day/time.
-

CATEGORY	DATE	TIME
SITEWORK	1/29	9AM
GENERAL TRADES	1/29	10AM
ELECTRICAL	1/29	1PM
MECHANICAL	1/29	2PM
FOOD SERVICE EQUIP.	1/29	3PM

B. Clarifications and Additions to Work Scopes

- **Site Work scope**
  - Added Alternate No 2
    - Removal of furnishing (6) poles for 20' protective netting around new schools at Athens. Price still to include installation but poles will be provided by Troy School District.
- Refer to TMP Architecture write-up.

C. RFI Responses

Q: Per the drawings the refer to Allowance, are we to include the quantities provided in base bid or are those recommendations that you have included in the $100,000.00 allowance.
A: The $100,000 allowance noted in ***SPECIAL CONSIDERATIONS*** in the sitework contractors' scope of work is in addition to any and all allowances noted on the drawings.

Q: Permits and tap fees I assume are part of our $100,000.00 allowance

A: Any/all permits and tap fees included in the contractors' scope of work is not included in the ***SPECIAL CONSIDERATIONS*** allowances in the Project Manual.

Q: Confirm that the turf is being furnished and installed by the owner.
A: Yes, all turf is being furnished and installed by the district's representative.

Q: Will there be a schedule released for this project?
A: Yes. Refer to the ***PROCUREMENT TIMETABLE*** in Section 000102 for desired start and completion dates. In addition to this a construction schedule will be provided regularly throughout the process once contracts are awarded.

Q: Will there be a logistics plan released for this project?
A: Yes. A logistics plan will be discussed and distributed by Barton Malow before construction begins.

Q: Undercuts for poor or unsuitable underlaying soils handled through the $100,000.00 allowance
A: This is at the contractor's discretion. Include allowances for undercutting noted on drawings. Specifically allowances and Note #8 on Drawing C-3.0 for Athens High School.

Q: Site furnishings furnish and installed benches, bike racks, etc. by Architectural/General trades per their scope?
A: Site furnishings and installation are to be provided by Sitework Contractor.

Q: Please confirm foundations are part of the Architectural/General trades scope?
A: All foundations are part of the Sitework Contractors scope of work.

Q: Foundation spoils and backfill required are by Architectural/General trades scope?
A: Foundation spoils and backfill are part of the Sitework Contractors scope of work.

Q: Are wash stations really required? Can a track off mat or rumble mate suffice?
A: Provide pricing as specified. Alternative means and methods can be discussed and addressed after awarded contracts. In addition, all voluntary alternates should be provided on bid documents.

Q: Does the turf contractor have final grading? Will they furnish and install fines for final grading?
A: All final grading is under the sitework contractor's scope.

Q: Are you willing to extend the due date for this project by 1 week?
A: Yes. The new bid due date is 1/28/25 @ 2pm.

Q: Please provide model numbers for the security fixtures in spec section 22-4600.
A: Model numbers are not provided as there are multiple approved manufacturers for this specification.

Q: Electrical scope includes the removal and reinstallation of existing scoreboards with an alternate for new scoreboards. Is there a structural detail for the steel framing need to mount the existing? Also if replacing with new is there a structural detail for the new scoreboards?
A: Refer to Drawing LD1.01 for Scoreboard elevation details. Also refer to Section 11 6842 - Scoreboard in the specifications for new and existing scoreboard basis of design.

Q: It is mentioned in the project manual that electrical is to provide and install the fire alarm system. I can not find the specs or manufacture that we should use in the spec book.
A: Disregard instructions for Electrical Contractor to provide and install Fire Alarm systems. There is no Fire alarm systems for this project.

Q: Sheet C6.0 is showing an allowance for 48" CMP of 201 lineal feet and 48" end section of 1 – is this work part of base bid?
A: Yes.

Q: Sheet C3.0 is showing an allowance for subgrade undercut of 2040 cyd and 4” drain tile of 2000 lft – is this work part of base bid?
A: Yes, include cost in base bid.

Q: Sheet C2.0 is showing an allowance to remove storm pipe of 200 lineal foot – is this work part of base bid?
A: Yes, include cost in base bid.

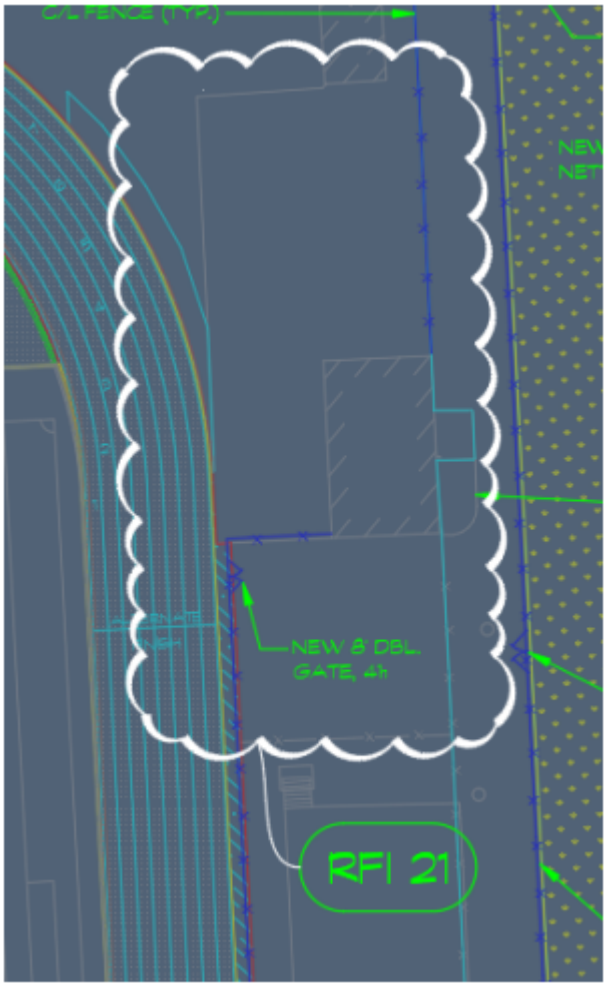
Q: Who is responsible for the concrete stoop caps?
A: Sitework contractor is responsible for all concrete stoops complete.

Q: Not seeing the heights for the dimensional letters for the exterior of the building. Please advise
A: Refer to detail 1/A1.1 and Sign elevation detail 13/S6.1.

Q: Who is the specified controls contractor?
A: MCMI.

Q: For the Athens track, the specs say to install the leveling at 2.5” but the plans say 2”. Please clarify.
A: Leveling course shall be 2-1/2” depth as specified.

Q: At Athens HS C3.0 Shows the 4’ High Fence on the east side of the track extending north 108 LF past the 8’ Double Gate then taking a 90 degree turn east to an existing building. This same line is not shown on the Foresite Drawings L1.00 or L1.02. Please advise if this fence is to be installed.
A: The 4’ fence noted on the civil sheets is to be removed and reflected as shown on the Landscape drawings. Contractor shall install new 4’ fence east from end of track fence and terminate/but next to existing building.



Q: At Troy High School C3.1 calls out GUARDRAIL in the northwest corner of the drawing and refers us to C9.0 for detail, no Guardrail detail is shown. Is this intended to be handrail as the detail shows, or W-Beam Highway Guardrail?
A: Contractor is to install MDOT type 'B' guardrail along the west side of the parking lot.

Q: Sheet L1.02 is showing the fence at the east of the site going south stopping, should this continue South and connect to new fence?
A: Yes, corrected in Addendum #1. East fence line now connects to corner of varsity baseball left field fence.

Q: Sheet C6.0 is showing an allowance for 48" CMP of 201 lineal feet and 48" end section of 1 – where is it located on the plans?
A: The contractor is to provide an "allowance" for the potential installation of the CMP. It may become necessary during construction.

Q: Sheet C2.0 is showing an allowance to remove storm pipe of 200 lineal foot - where is this located on the plans?
A: The revised construction documents issued in Addendum #1 show the storm sewers which are being removed on the demolition plan. Reference Addendum #1

Q: Does the fence lines at both the JV baseball & softball fields require a curb or concrete maintenance strip. The grading plan gives us T.O.C. elevations. Please clarify.

A: At JV bullpens, the chainlink fence surrounding the bullpen shall include a curb on all sides. There is no curb required for fence beyond limits of bullpen. Refer to Sheet LD1.09 and LD1.10. Reference to Addendum #1.

Q: Please clarify the difference between the 4" & 6" concrete walks/ pavement at Troy Athens High School. I assume that it is the line shown on C3.0 but the legend does not designate the difference.
A: Reference Addendum #1. The limits were defined and provided details of the pavement cross section.

Q: Is there a detail for the precast storage buildings. Do they require a concrete pad?
A: Yes, see sheet LD1.16 (Addendum #1). Our detail calls out 4" concrete floor provided by mfr on top of 8" 21AA Limestone compacted base.

Q: Please clarify what areas that require turf curbs. Do we need to include a turf curb in front of the poured in place wall that is shown on C3.0 and detailed on C9.0 (Troy Athens High School)?
A: All turf athletic fields will require a concrete turf anchor at perimeter. Refer to Sheet LD1.10, Detail #9 issued with Addendum #1.

Q: Is there a detail for the backstop walls at the Varsity baseball and softball fields?
A: Backstop "wall" is a pre-manufactured backer board & pad system. Refer to Sheet LD1.07.

Q: Is there exterior signage needed indicating the concessions and ticket booth windows?
A: Signage in question is not needed. Proceed per the documents.

Q: Item #27 on FSE drawings for Troy High is specified to be by Avantco #SH-1H. We are being told this model number is not valid. Please advise.
A: Manufacturer's model number has changed to HDC-36.

Q: Drawings E1.0 for Troy High only show 2 power pedestals at the tennis courts, both located on the north end. Should there be power pedestals for the south courts also?
A: Additional pedestals not required for south courts.

Q: Can they confirm for Section 08 3323, they are wanting an insulated coiling door to act as a counter shutter. If not a Model 651 is a Stainless Steel counter shutter that would work. Please confirm if acceptable.
A: Insulation is not needed.

Q: Is it in the MC's scope of work to provide the electrical heating units?
A: Yes.

Q: They have a spec for both schools for the flagpole. But, only Athens shows a location for a flagpole. Troy High doesn't show any location for flagpole. Is there one?
A: No, a new flagpole is only needed at Athens High School.

Q: In Architectural/General Trades Scope of works, Exclusions, it states to exclude storage and toilet room footings and building pad. With excluding this, what concrete does GT have?
A: General Trade Contractor scope of work includes toilet and storage building slab on grade concrete. The exclusion is for the soil building pad and footings, which is under the site contractor's scope of work. In addition refer to Scope B/#94 on providing engineered fill, dirt, and sand for slab-on-grade.

Q: Electrical scope includes the removal and reinstallation of existing scoreboards with an alternate for new scoreboards. Is there a structural detail for the steel framing need to mount the existing? Also if replacing with new is there a structural detail for the new scoreboards?
A: Refer to Drawing LD1.01 for Scoreboard elevation details. Also refer to Section 11 6842 - Scoreboard in the specifications for new and existing scoreboard basis of design.

Q: It is mentioned in the project manual that electrical is to provide and install the fire alarm system. I can not find the specs or manufacture that we should use in the spec book.
A: Disregard instructions for Electrical Contractor to provide and install Fire Alarm systems. There is no Fire alarm systems for this project.

Q: Who is responsible for the concrete stoop caps?
A: Sitework contractor is responsible for all concrete stoops – complete.

Q: Not seeing the heights for the dimensional letters for the exterior of the building. Please advise
A: Refer to detail 1/A1.1 and Sign elevation detail 13/S6.1

Addendum

Date	January 14, 2025
Project Name	Troy School District – Athens High School Athletics & Troy High School Athletics
TMP Project No.	22103D, 22104E
Bid Package No.	02B
Addendum No.	One (1)

The Bidding Documents are modified, supplemented, or augmented as follows and the Addendum is hereby made a part of the proposed Contract Documents.

The following Drawing(s) and Attachment(s) are issued with this Addendum:

Drawing No(s).:	22103D – Athens HS: TS.1, C2.0, C3.0, C4.0, C4.1, C4.2, C5.0, C5.1, C6.0, C6.1, C7.0, C7.1, C9.0, L1.00, L1.01, L1.02, L1.03, L1.04, LD1.01, LD1.02, LD1.04, LD1.05, LD1.08, LD1.10, LD1.11, LD1.12, LD1.16
	22104E – Troy HS: AD.2, A1.1, A4.1
Attachment(s):	Specification Section(s): 05 5000, 33 4416

Item No.	**Specification Changes**
SC-1	Refer to Section No. 05 5000 – METAL FABRICATIONS (reissued): A. Added paragraph 1.01.D. B. Added paragraphs 2.09 and 2.10 and all associated sub-paragraphs.
SC-2	Refer to Section No. 33 4416 – UTILITY TROUGH DRAIN (reissued): A. Added landscape trough drain as indicated.

<u>22103D – Athens High School Athletics</u>

Item No.	**Civil Drawing Changes**
CD-1	Refer to Drawing No. C2.0 (reissued): A. Added items to be protected/removed at the south end of the project limits as indicated. B. Added boundary to the “remove vegetation, topsoil, and subgrade” hatch as indicated.
CD-2	Refer to Drawing No. C3.0 (reissued): A. Added note referencing chain link fence at baseball outfield as indicated.

B. Removed synthetic turf markings for varsity softball field (not bubbled).
C. Revised location of flagpole as indicated.
D. Added seat wall around flagpole as indicated.

CD-3 Refer to Drawing No. C4.0 (reissued):

A. Revised spot elevations in plaza area between softball fields as indicated.
B. Removed synthetic turf markings for varsity softball fields (not bubbled).

CD-4 Refer to Drawing No. C4.1 (reissued):

A. Revised grading around berm near varsity softball left field foul pole as indicated.
B. Revised grading at retaining walls between varsity baseball/practice field and concrete sidewalk as indicated.
C. Added spot elevations around flagpole seat wall as indicated.

CD-5 Refer to Drawing No. C4.2 (reissued):

A. Revised grading at retaining wall between practice field and concrete sidewalk as indicated.

CD-6 Refer to Drawing No. C5.0 (reissued):

A. Added contour labels to the mass grading contours as indicated.

CD-7 Refer to Drawing No. C5.1 (reissued):

A. Revised limits of earth disruption at the north end of the site as indicated.

CD-8 Refer to Drawing No. C6.0 (reissued):

A. Revised storm sewer piping around JV softball dugout (CB-14A to CB-14) as indicated.
B. Revised storm sewer piping around MH-4 and location of STUB-102 as indicated.
C. Added note referencing underdrain in practice field as indicated.
D. Added STUB-104 and piping from flagpole seat wall to CB-3 as indicated.

CD-9 Refer to Drawing No. C6.1 (reissued):

A. Revised storm structure table to reflect revised information as indicated.

CD-10	Refer to Drawing No. C7.0 (reissued): A. Revised profiles to account for plan adjustments as indicated.
CD-11	Refer to Drawing No. C7.1 (reissued): A. Revised rim elevation labels for clean outs as indicated.
CD-12	Refer to Drawing No. C9.0 (reissued): A. Revised Pour in Place Wall with Fence detail as indicated.

Item No.	**Athletic Drawing Changes**
LD-1	Refer to Drawing No. L1.00 (reissued): A. Revised size of pre-cast storage buildings to 10'x12' as indicated. B. Revised layout of flag pole focal point as indicated.
LD-2	Refer to Drawing No. L1.01 (reissued): A. Revised various detail callouts to be coordinated with subsequent details as indicated. B. Added detail callouts to further communicate intent as indicated. C. Added dimensions to new flag pole focal point layout as indicated.
LD-3	Refer to Drawing No. L1.02 (reissued): A. Added enlarged plan views of dugout fencing conditions to further communicate layout intent as indicated. B. Added fence at each of varsity baseball to complete coordination as indicated.
LD-4	Refer to Drawing No. L1.03 (reissued): A. Added section detail callouts to be coordinated with various finish grade conditions between athletic fields and site grading as indicated.
LD-5	Refer to Drawing No. L1.04 (reissued): A. Revised Utility Legend as indicated. B. Added detail callouts to further communicate intent as indicated. C. Added invert elevations to JV Softball field drain tile as indicated. D. Added top of trench elevations for synthetic turf fields as indicated. E. Revised Varsity Softball field outlet location to be coordinated with latest civil utility plan as indicated. F. Added note indicating existing utility boxes within the running track. G. Revised bullpen drain tile sizes and lengths as indicated.

H. Added trough drain to northeast side of new flag pole focal point layout as indicated.

LD-6 Refer to Drawing No. LD1.01 (reissued):

A. Added details to further communicate JV ballfield design intent as indicated.
B. Revised details; moved scoreboard details and flag pole detail to a different LD sheet as indicated.

LD-7 Refer to Drawing No. LD1.02 (reissued):

A. Revised shot put detail to show a concrete curb border as indicated.
B. Revised discus detail note to callout as indicated.

LD-8 Refer to Drawing No. LD1.04 (reissued):

A. Added note clarifying the intent for post sizes on gates larger than 12’ as indicated.

LD-9 Refer to Drawing No. LD1.05 (reissued):

A. Added note clarifying the intent for post sizes on gates larger than 12’ as indicated.

LD-10 Refer to Drawing No. LD1.08 (reissued):

A. Revised details; moved JV dugout details from different LD sheet onto sheet as indicated.
B. Revised details; backstop detail numbers are reordered as indicated.

LD-11 Refer to Drawing No. LD1.09 (not reissued):

A. Revised bullpen drain tile diameter to 6”.

LD-12 Refer to Drawing No. LD1.10 (reissued):

A. Added section details for various finish grade conditions between athletic fields and site grading as indicated.

LD-13 Refer to Drawing No. LD1.11 (reissued):

A. Deleted dimensional references to fence as indicated.
B. Added notes for expansion joints as indicated.

LD-14	Refer to Drawing No. LD1.12 (reissued): A. Revised details; moved JV dugout details to different LD sheet as indicated. B. Revised details; moved scoreboard details and flag pole details from different LD sheet onto sheet as indicated. C. Added synthetic turf graphics detail for flag pole area as indicated. D. Revised name of detail sheet to correspond with the details as indicated. E. Revised flag pole focal point section in its entirety as indicated.
LD-15	Refer to Drawing No. LD1.16 (new): A. Added drawing sheet for design intent of storage buildings as indicated.

Item No.	**Architectural Drawing Changes**
AD-1	Refer to Drawing No. TS.1 (reissued): A. Added sheet LD1.16 to Drawing Index as indicated.

22104E – Troy High School Athletics

Item No.	**Architectural Drawing Changes**
AD-2	Refer to Drawing No. AD.2 (reissued): A. Added detail No. 10 as indicated.
AD-3	Refer to Drawing No. A1.1 (reissued): A. Added detail tag No. 10 as indicated.
AD-4	Refer to Drawing No. A4.1 (reissued): A. Revised Wall Section no. 1, top of wall coping and coordinated awning framing as indicated. B. Revised Wall Section no. 2, top of wall coping and coordinated awning and canopy framing as indicated. C. Added Detail Tag no. 5 as indicated. D. Revised Roof Edge Detail no. 3, top of wall coping and coordinated awning and canopy framing as indicated. E. Added Base of Wall Detail no. 5 as indicated.

END OF ADDENDUM NO. 1 - BID PACKAGE NO. 02B

SECTION 05 5000 - METAL FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Shop fabricated steel items, including:
   1. Loose steel lintels.
   2. Steel framing supports for the following:
      a. Roof openings.
      b. Mechanical and electrical equipment.
      c. Applications where framing and supports are not specified in other Sections.
      d. Other items as indicated on Drawings.
   3. Other items as indicated on Drawings.

B. Downspout boots.

C. Slotted channel framing.

D. Shop fabricated aluminum brake metal trim. ****ADD1****

1.02 REFERENCE STANDARDS

A. ANSI A14.3 - American National Standard for Ladders -- Fixed -- Safety Requirements; 2008 (Reaffirmed 2018).

B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

C. ASTM A48/A48M - Standard Specification for Gray Iron Castings; 2022.

D. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2022.

E. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.

F. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.

G. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2018.

H. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.

I. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

J. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.

K. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.

L. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2022).

M. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 2004.

N. SSPC-SP 2 - Hand Tool Cleaning; 2018.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
   1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
   2. Design data: Submit drawings and supporting calculations, signed and sealed by a qualified professional structural engineer.

C. Welders' Certificates: Submit certification for welders employed on the project, verifying AWS qualification within the previous 12 months.

D. Designer's Qualification Statement.

E. Fabricator's Qulaification Statement.

1.04 QUALITY ASSURANCE

A. Design metal fabrications under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.

B. Fabricator: Company specializing in performing the work of this section with minimum 5years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL

A. Steel Sections: ASTM A36/A36M.

B. Steel Tubing: ASTM A500/A500M, Grade B, cold-formed or ASTM A501/A501M hot-formed structural tubing.

C. Plates: ASTM A283/A283M.

D. Pipe: ASTM A53/A53M, Grade B Schedule 40, black and hot-dip galvanized finish, as indicated.

E. Slotted Channel Framing:

1. Slotted Channel Framing: ASTM A653/A653M Grade 33.
   a. Channel Size: 1-5/8 by 1-5/8 inches.
   b. Thickness: 0.060 inch (16 gage), minimum.
   c. Finish: Galvanized, G90 coating.
2. Fittings and Fasteners: Manufacturer's standard fittings and fasteners; finished to match slotted channel framing.

F. Bolts, Nuts, and Washers: ASTM A307, Grade A, galvanized to ASTM A153/A153M where connecting galvanized components.

G. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

H. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

I. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, complying with VOC limitations of authorities having jurisdiction.

J. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.02 FABRICATION - GENERAL

A. Fit and shop assemble items in largest practical sections, for delivery to site.

B. Fabricate items with joints tightly fitted and secured.

C. Continuously seal joined members by continuous welds.

D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.03 LOOSE STEEL LINTELS

A. General:

1. Fabricate loose steel lintels from steel angles, plates, and other shapes as indicated.
   a. Weld adjoining members together to form a single unit.
2. Size loose steel lintels to provide bearing length at each side of openings equal to 1/12 of clear span but not less than 8 inches, unless otherwise indicated.

3. Galvanize loose steel lintels located in exterior walls.
4. Prime loose steel lintels located in interior walls.
5. Provide lintels at openings for all equipment and ductwork.

B. See Structural Drawings and/or Specifications for masonry and loose steel lintel schedules.

2.04 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

1. Fabricate units from slotted channel framing where indicated.

C. Finish: Prime painted unless otherwise indicated or at an exterior location.

D. Fabricate support for suspended toilet partitions as follows:

1. Beams: Continuous steel shapes of size required to limit deflection to L/360 between hangers, but use not less than C8x11.5 channels or another shape with equivalent structural properties.
2. Hangers: Steel rods, 1/2 inch in diameter, spaced not more than 36 inches o.c.
   a. Thread rods to receive anchor and stop nuts.
   b. Fit hangers with wedge shape washers for full bearing on sloping flanges of support beam.
3. Braces and Angles: Steel angles of size required to rigidly brace and support beams.

E. Roof Openings: Unless otherwise indicated, provide steel support framing for roof openings as follows:.

1. Provide steel support framing around entire perimeter of roof opening; span support framing between primary framing or purlins.
2. Size steel framing not less than the following for spans indicated:
   a. Up to 5 feet: C4x5.4 or L4x4x1/4.
   b. 5 to 7 feet: C5x6.7 or L5x3-1/2x1/4 (LLV).
   c. 7 to 10 feet: C6x8.2 or L6x3-1/2x5/16 (LLV).
   d. Refer to Drawings for conditions other than those listed above.
3. Limit deflection to L/240.

2.05 DOWNSPOUT BOOTS

A. Downspout Boots: Smooth interior without boxed corners or choke points; include integral lug slots, integral cleanout, cleanout cover, and tamper proof fasteners.

1. Configuration: Angular.
2. Material: Cast iron; ASTM A48/A48M; casting thickness 3/8 inch (9.5 mm), minimum.

2.06 MISCELLANEOUS

A. Protective Coating: Zinc molybdate alkyd.

B. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

2.07 FINISHES - STEEL

A. Prepare surfaces to be primed in accordance with SSPC-SP2.

B. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.

C. Prime Painting: One coat.

1. Provide at all fabrications except at galvanized locations and where otherwise indicated.

D. Where indicated, galvanizing of Structural Steel Members: Galvanize after fabrication to ASTM A123/A123M requirements. Provide minimum 1.7 oz/sq ft galvanized coating.

1. Locations: All exterior locations and elsewhere as indicated.

E. Where indicated, galvanizing of Non-structural Items: Galvanize after fabrication to ASTM A123/A123M requirements. Provide minimum 1.7 oz/sq ft galvanized coating.

1. Locations: All exterior locations and elsewhere as indicated.

2.08 FABRICATION TOLERANCES

A. Squareness: 1/8 inch maximum difference in diagonal measurements.
B. Maximum Offset Between Faces: 1/16 inch.
C. Maximum Misalignment of Adjacent Members: 1/16 inch.
D. Maximum Bow: 1/8 inch in 48 inches.
E. Maximum Deviation From Plane: 1/16 inch in 48 inches.

2.09 MATERIALS – ALUMINUM **ADD1**

A. Sheet Aluminum: ASTM B209, 5052 alloy, H32 or H22 temper.
B. Welding Materials: AWS D1.2/D1.2M; type required for materials being welded.
C. Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.

2.10 ALUMINUM BRAKE METAL TRIM **ADD1**

A. General: Fabricate sheet metal trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated. Shop fabricate items where practicable. Obtain field measurements for accurate fit before shop fabrication.
B. Fabricate sheet metal trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
C. Fabricate sheet metal trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
    1. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
D. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA recommendations.
E. Expansion provisions: Where lapped or bayonet-type expansion provisions in the Work cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.
F. Conceal fasteners and expansion provisions where possible on exposed-to-view sheet metal trim, unless otherwise indicated.
G. Fabricate cleats and attachment devises from same material as accessory being anchored or from compatible, noncorrosive metal.
    1. Thickness: As recommended by SMACNA's "Architectural Sheet Metal Manual" for application but not less than thickness of metal being secured.
H. Finishes:
    1. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42 Integrally colored anodic coating not less than 0.7 mils thick.
    2. Touch-Up materials: As recommended by coating manufacturer for field application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

A. Clean and strip primed steel items to bare metal where site welding is required.
B. Supply setting templates to the appropriate entities for steel items required to be cast into concrete or embedded in masonry.

3.03 INSTALLATION - GENERAL

A. Install items plumb and level, accurately fitted, free from distortion or defects.
B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

C. Field weld components as indicated on shop drawings.
D. Perform field welding in accordance with AWS D1.1/D1.1M.
E. Obtain approval prior to site cutting or making adjustments not scheduled.
F. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.04 MISCELLANEOUS FRAMING AND SUPPORTS

A. Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

3.05 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
B. Maximum Offset From True Alignment: 1/4 inch.
C. Maximum Out-of-Position: 1/4 inch.

END OF SECTION

SECTION 33 4416 – UTILITY TROUGH DRAIN SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

B. Related Sections:

1. Section 03 3005 Cast In Place Concrete
2. Section 33 4605 Subdrainage Systems
3. Section 33 4615 Subdrainage Systems – Turf Draintile

1.2 SCOPE

A. The work under this section of the specifications shall include all materials, labor and equipment necessary to install a pre-cast, chemical-resistant polyester concrete trough drainage systems as specified, and as shown on the Contract Documents.

1.3 QUALITY ASSURANCE

A. Manufacturer shall certify that the polymer concrete used meets the strength values of Section 2.1 B.

1.4 SUBMITTALS

A. Manufacturer will submit, when required, shop drawings showing a schematic plan of the total drainage system listing all parts being provided with exact center-line dimensions suitable for installation. Copies of the manufacturer's recommended method of installation, and assembly shall be submitted for review. Contractor shall obtain arc radius units where they apply.

B. Manufacturer shall submit a list of projects installed locally during the past five years.

PART 2 - PRODUCTS

2.1 TROUGH DRAIN - TRACK

A. Manufacturer shall be one of the following or (approved equal):

Manufacturer:	Model:
1. ACO Polymer Products, Inc. Chagrin Falls, Ohio (216) 247-2033	System 4000 Grate Color: Black
2. SportsField Specialities Delhi, NY (888) 975-3343	Sport 4000 Grate Color: Black
3. SportsEdge Troutman, NC (800) 334-6057	Pro “S” Trench Drain Grate Color: Black

B. Product shall be a one piece polymer concrete grated drain incorporating anti-slip, ADA compatible locking grate. Trench drain channels shall be pre-cast, and interlocking, incorporating either polyester or vinyl ester resins and formulated aggregate.

Overall Width	-	6.1 in
Internal Width	-	4.0 in
Unit Depth	-	6.0 in (nominal)
Compressive Strength	-	14,000 - 14,500 PSI
Flexural Strength	-	3,600 - 4,500 PSI

Tensile Strength - 1,500 PSI

2.2 TROUGH DRAIN – LANDSCAPE **ADD1**

A. Manufacturer shall be one of the following or (approved equal):

Manufacturer:	Model:
4. ACO Polymer Products, Inc. Chagrin Falls, Ohio (216) 247-2033	System: KlassikDrain Grate Color: Black

B. Product shall be a one piece polymer concrete grated drain incorporating anti-slip, ADA compatible locking grate. Trench drain channels shall be pre-cast, and interlocking, incorporating either polyester or vinyl ester resins and formulated aggregate.

Internal Width - 4.0 in
Load Class - A
Grate: Black Plastic Longitudinal, ADA

PART 3 - EXECUTION

3.1 SITE PREPARATION

A. Excavate the area for channel placement wide and deep enough to accommodate the channel size and a minimum of 4 inch concrete encasement (channels require a minimum of 4 inches of concrete support and top of grate must be evenly aligned to the surface of the surrounding slab) on both sides as well as underneath the channel.

3.2 INSTALLATION

A. Channel sections are installed from the outlet end of the system, working from either catch basins or other outlets. Insert channels to interlock ends. Channel sections shall be placed on brick, rebar basket, or low slump concrete slurry, to obtain correct finished elevation. Cutting will be made if required, by masonry or concrete saw. Saw cut relief joints at every third (3rd) section channel (±10). Install drain system in strict accordance with manufacturer's recommendations and shop drawings.

3.3 CONCRETE PLACEMENT

A. Protect the top of the channel against the concrete or other abutting materials during setting. Place concrete in a manner that will not dislodge the channels. Concrete shall be at finished level with the top of the grate to ensure efficient drainage and adequate grate edge protection.

3.4 FINISHING AND CLEAN-UP

A. Following final set of concrete, remove channel protection, if used.

END OF SECTION

ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD · BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223 EM · INFO@TMP-ARCHITECTURE.COM

ATHENS HIGH SCHOOL ATHLETIC FIELDS

TROY SCHOOL DISTRICT - TROY, MICHIGAN 48098

2022 BOND PROGRAM - BID PACKAGE NO. 02A

PROJECT NUMBER 22103D

CONSTRUCTION DOCUMENTS

CONSULTANTS:

CIVIL ENGINEER

PEA GROUP
CONSULTING ENGINEERS
1849 POND RUN
AUBURN HILLS, MICHIGAN 48326
PHONE: (248) 689-9090

LANDSCAPE ARCHITECT

FORESITE DESIGN, INC.
LANDSCAPE ARCHITECTS
3269 COOLIDGE HIGHWAY
BERKLEY, MICHIGAN 48072
PHONE: (248) 547-7757
FAX: (248) 547-0218

STRUCTURAL ENGINEER

WILLIAM A. KIBBBE & ASSOCIATES, INC.
CONSULTING ENGINEERS
1475 S. WASHINGTON AVE.
SAGINAW, MI 48601
PHONE: (989) 752-5000
FAX: (989) 752-5002

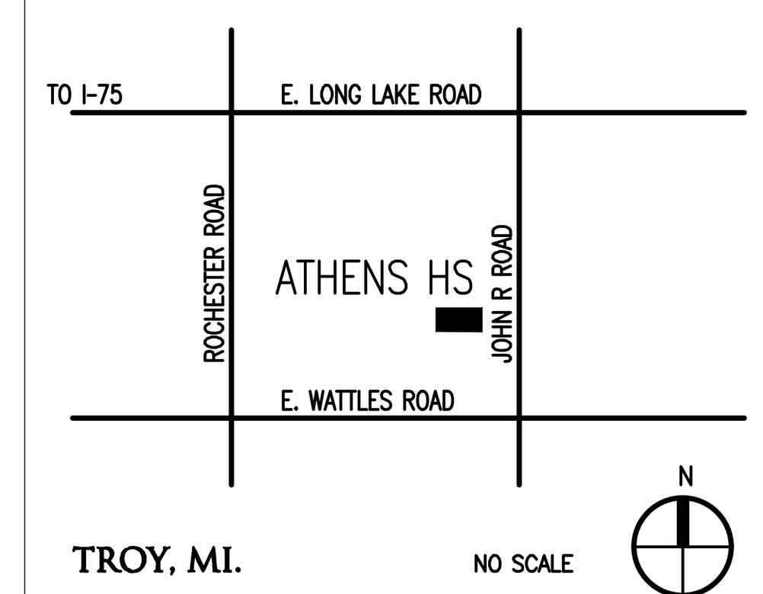
MECHANICAL & ELECTRICAL ENGINEER

PETER BASSO ASSOCIATES INC.
ELECTRICAL ENGINEERS
5145 LIVERNOIS ROAD, SUITE 100
TROY, MICHIGAN 48098-3276
PHONE: (248) 879-5666
FAX: (248) 879-0007

LIST OF DRAWINGS

PROJECT DATA:

LOCATION MAP



TROY, MI. NO SCALE

ADDRESS: ATHENS HIGH SCHOOL
4333 JOHN R ROAD
TROY, MICHIGAN 48085

BUILDING:

BUILDING AREA = 1,384 SQ. FT. (NEW)

CODE:

GOVERNING CODES :
- 2016 SCHOOL FIRE SAFETY RULES
  (2012 Life Safety Code, plus amendments)
- 2015 MICHIGAN BUILDING CODE
- 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS
- 2018 MICHIGAN PLUMBING CODE
- 2015 MICHIGAN MECHANICAL CODE
- 2015 MICHIGAN UNIFORM ENERGY CODE
  (ANSI/ASHRAE/IES Standard 90.1-2013)
- 2017 MICHIGAN ELECTRICAL CODE (2017 NEC, plus Part 8 Rules)
- 2010 MICHIGAN ELEVATOR RULES
  (ASME A17.1-2010, ASME A18.1-2011)
- MICHIGAN BARRIER FREE CODE
  (Michigan Building Code 2015 and ICC A117.1-2009)
- 2013 MICHIGAN BOILER CODE RULES
  (ASME Boiler and Pressure Vessel Code, 2019 edition)
  (National Board Inspection Code [NBIC], 2019 edition)

CONSTRUCTION CLASSIFICATION : V-B (MBC) | V(000) (LSC)
USE GROUP CLASSIFICATION : S-1 MODERATE-HAZARD STORAGE

DATE	ISSUED FOR:
.	.
.	.
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

LICENSEE'S STATEMENT:

This Document has been prepared under the supervision of the Architect, as the person in Responsible Charge with the firm of TMP ARCHITECTURE, INC. An original embossed or rubber stamp seal and original signature of the Architect is required and shall be affixed to any copy of this Document submitted to a governmental agency for approval or record. This is in conformance with the State of Michigan's PA 299, Article 20 and the General Rules of the Board of Architects.

The Architect's seal provided hereon does not take responsibility for certain portions of the Documentation or project requiring the services of a licensed Professional Engineer or other design professional. An original embossed or rubber stamp seal and original signature of the Professional Engineer is required and shall be affixed to any copy of this or other Document submitted to a governmental agency for approval or record. The engineering firms associated with this document are listed above as Consultants.

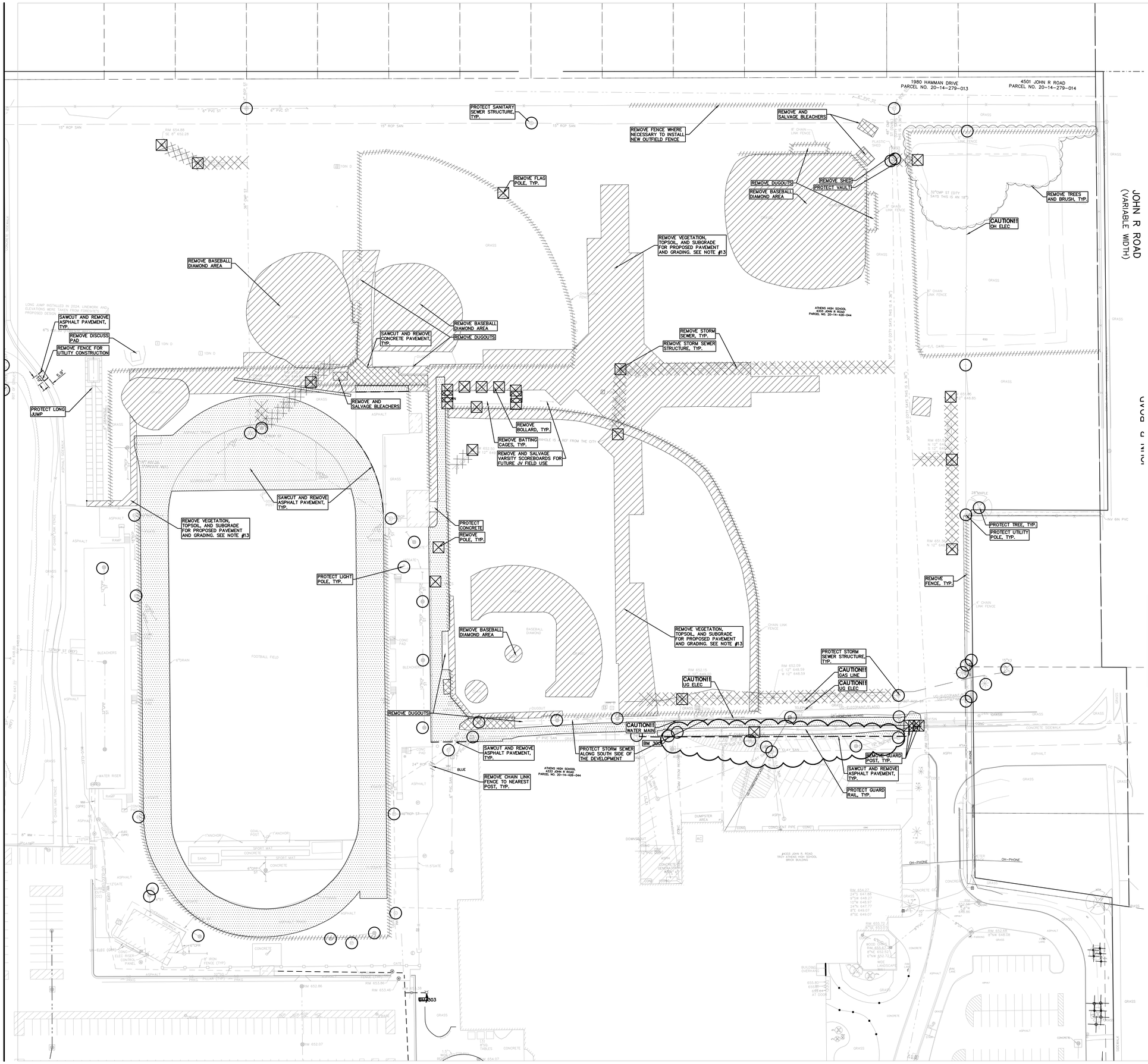
REGISTRATION SEALS

COPYRIGHT

PROJECT TITLE
Athens High School Athletic Fields

PROJECT NO.
22103D

DRAWING NO.
TS.1



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	○
ITEM TO BE REMOVED	⊠
CURB/FENCE REMOVAL	//////////
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	▨
AREA OR ITEMS TO BE REMOVED	▨
UTILITY REMOVAL	▨
ABANDON UTILITY	••••••••••
ASPHALT REMOVAL	▨
TREE REMOVAL	✕
SAWCUT LINE	— — —

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

1. ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
3. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS INTENDED THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
5. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, CONCRETE, ASPHALT, TREES, ETC.
6. THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO OWNER.
10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
11. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, PRIVATE UTILITY LOCATOR, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
12. CONTRACTOR SHALL REFER TO THE "REPORT ON GEOTECHNICAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/7/2024 AND "REPORT ON GEOTECHNICAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/24/2024.
13. TOPSOIL REMOVED DURING DEMOLITION DEMOLITION/MASS GRADING OPERATIONS AS DEEMED ACCEPTABLE BY ENGINEER, 3RD PARTY TESTING COMPANY, AND/OR OWNER TO BE STOCKPILED ON SITE AND REUSED FOR RESTORATION AREAS.

DEMOLITION QUANTITIES:

REMOVE ASPHALT	68,629 SF
SAWCUT PAVEMENT	528 LF
REMOVE DUGOUTS	6 EA
REMOVE GUARD POST	13 EA
REMOVE VEGETATION, TOPSOIL, AND SUBGRADE	50,108 SF
REMOVE FENCE	5,182 LF
REMOVE FLAG POLE	1 EA
REMOVE GRAVEL	56,930 SF
REMOVE STORM SEWER PIPE	1,158 LF
REMOVE STORM STRUCTURES	12 EA
REMOVE SHED	1 EA

ALLOWANCE:

REMOVE STORM SEWER PIPE	200 LF

NORTH

0 20 40 80

SCALE: 1" = 40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @ TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District Troy, Michigan

DRAWING TITLE

DEMOLITION PLAN

ISSUE DATES

01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

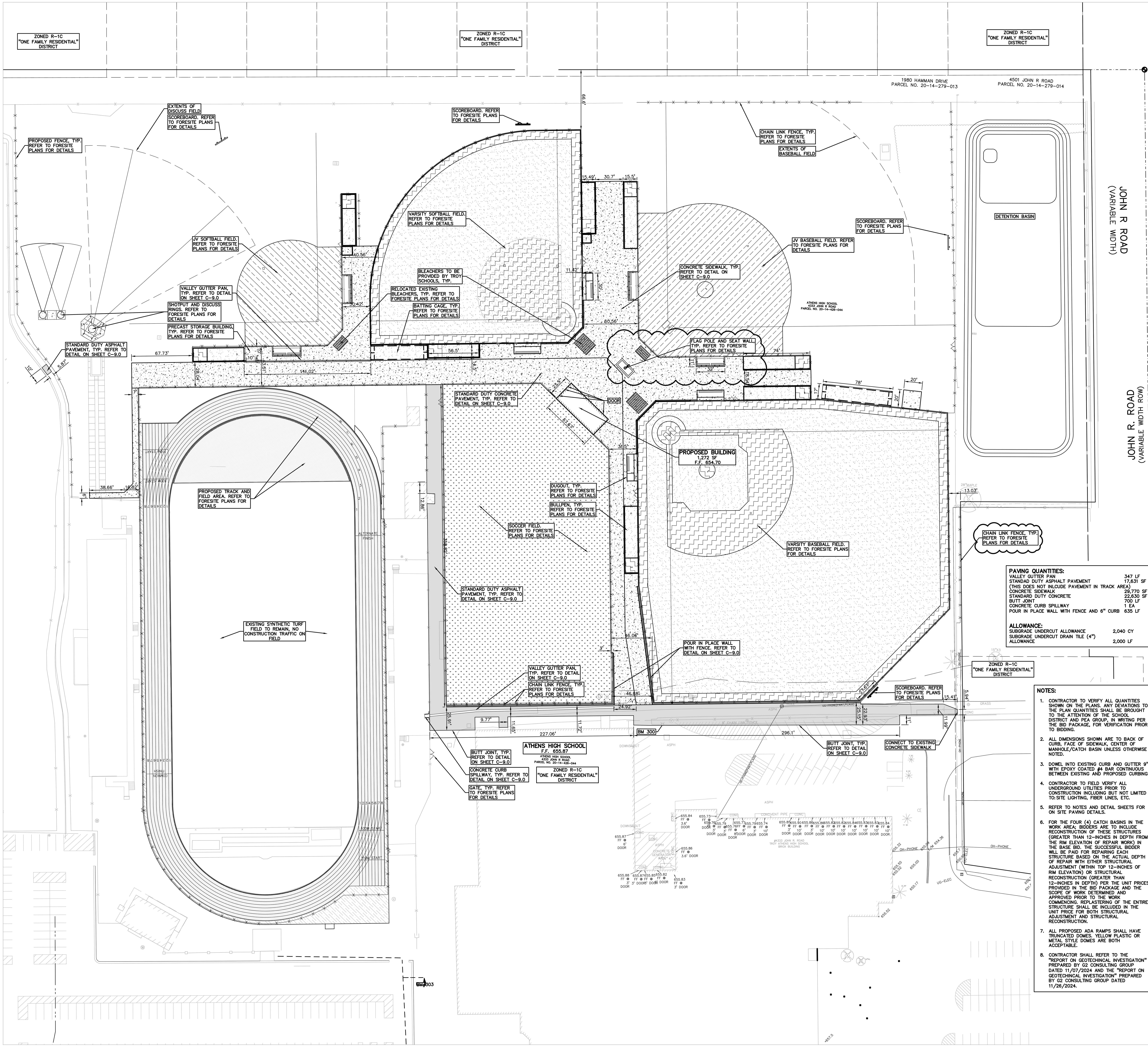
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.

22103D

DRAWING NO.

C-2.0



LEGEND:

- CONCRETE CURB AND GUTTER
- REVERSE GUTTER PAN
- SETBACK LINE
- SIGN
- LIGHTPOLE
- FENCE
- GUARD RAIL
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- ALL-WEATHER SURFACE OVER STANDARD DUTY ASPHALT PAVEMENT
- ALL-WEATHER SURFACE STANDARD DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE PAVEMENT
- TOPSOIL AND SOD
- TOPSOIL AND SEED
- CRUSHED LIMESTONE ATHLETIC MEAL
- CRUSHER DUST
- SYNTHETIC TURF

REFER TO FORESITE PLANS FOR HATCHING DETAILS AND INFO

PAVING QUANTITIES:

VALLEY GUTTER PAN	347 LF
STANDAD DUTY ASPHALT PAVEMENT (THIS DOES NOT INLCUDE PAVEMENT IN TRACK AREA)	17,631 SF
CONCRETE SIDEWALK	29,770 SF
STANDARD DUTY CONCRETE	22,630 SF
BUTT JOINT	700 LF
CONCRETE CURB SPILLWAY	1 EA
POUR IN PLACE WALL WITH FENCE AND 6" CURB	635 LF

ALLOWANCE:

SUBGRADE UNDERCUT ALLOWANCE	2,040 CY
SUBGRADE UNDERCUT DRAIN TILE (4") ALLOWANCE	2,000 LF

NOTES:

1. CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
2. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, CENTER OF MANHOLE/CATCH BASIN UNLESS OTHERWISE NOTED.
3. DOWEL INTO EXISTING CURB AND GUTTER 9" WITH EPOXY COATED #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
4. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.
5. REFER TO NOTES AND DETAIL SHEETS FOR ON SITE PAVING DETAILS.
6. FOR THE FOUR (4) CATCH BASINS IN THE WORK AREA; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.
7. ALL PROPOSED ADA RAMPS SHALL HAVE TRUNCATED DOMES. YELLOW PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
8. CONTRACTOR SHALL REFER TO THE "REPORT ON GEOTECHINCAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/07/2024 AND THE "REPORT ON GEOTECHINCAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/26/2024.

PAVEMENT PREPARATION NOTES:

1. PAVEMENT PREPARATION SHALL FOLLOW THE PROCESS SUMMARIZED BELOW:

1.1. AS PART OF THE PAVEMENT REMOVAL, REMOVE THE EXISTING PAVEMENT AND ANY AGGREGATE BASE REQUIRED FOR THE PROPOSED THICKNESS OF ASPHALT/CONCRETE PAVEMENT TO BE PLACED. ANY EXISTING BASE MATERIAL REMOVED TO ACHIEVE THIS ELEVATION WILL BE PART OF THE EARTHWORKS FOR THE PAVING OPERATION, WILL NOT BE PAID FOR SEPARATELY AND/OR CONSIDERED PART OF THE SUBGRADE UNDERCUTTING PAY ITEM AND WILL BE INCLUDED IN THE BASE BID FOR THE WORK.

1.2. ANY OF THE EXISTING AGGREGATE BASE REMOVED TO ACHIEVE THE THICKNESS OF THE PROPOSED PAVEMENT, AS DESCRIBED IN ITEM 1.1, AND DEEMED ACCEPTABLE BY A QUALIFIED ENGINEERING TECHNICIAN SHALL BE STOCKPILED FOR RE-USE IN THE PAVEMENT OPERATION.

1.3. PROOF ROLL EXISTING BASE AND SUBGRADE PER PLANS, SPECIFICATIONS AND GEOTECH REPORT.

1.4. DETERMINE AREAS THAT FAIL THE PROOF ROLL. UNDERCUTS SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.

1.5. TO MINIMIZE INSTABILITY AND UNDERCUTS, THE AGGREGATE BASE SHALL NOT BE LEFT EXPOSED TO PRECIPITATION AND CONSTRUCTION OPERATIONS AND SHOULD BE PERFORMED DURING THE SUMMER MONTHS TO ENSURE DRY, WARM, WEATHER. ADDITIONALLY, THE SUBGRADE MAY BECOME UNSTABLE UNDER REPEATED LOADING OF CONSTRUCTION TRAFFIC; THEREFORE, CONSTRUCTION EQUIPMENT SHOULD BE LIMITED ON THE EXPOSED SUBGRADE.

1.6. BACKFILL THE INITIAL PORTION OF THE UNDERCUT WITH THE SALVAGED AGGREGATE BASE AND THEN COMPLETE THE BACKFILL PROCESS WITH IMPORTED MDOT 21AA CRUSHED LIMESTONE AGGREGATE PER THE PLANS, SPECIFICATIONS AND GEOTECH REPORT.

2. UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH MDOT 21AA DENSE GRADED AGGREGATE PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT EXCEED 9 INCHES. THE USE OF TRI-AXIAL GEOGRID MAY BE USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE CONTRACTORS BID.

2. ALL ENGINEERED FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557) METHOD OF TESTING. ALL ENGINEERED FILL MATERIAL SHALL BE PLACED AND COMPACTED AT APPROXIMATELY THE OPTIMUM MOIUSTURE CONTENT. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHOULD FILL BE PLACED ON FROZEN SUBGRADE.

3. THE QUANTITY FOR "UNDERCUT" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

4. UNDERCUT DRAIN TILE SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.

5. THE QUANTITY FOR "UNDERCUT DRAIN TILE (4")" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL FOOTAGE OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

6. THE IMPORTING, ADDING, FINE GRADING AND COMPACTING ADDITIONAL PAVEMENT AGGREGATE BASE MATERIAL (MDOT 21AA CRUSHED LIMESTONE) REQUIRED TO ACHIEVE THE PROPOSED TOP OF BASE ELEVATIONS AND PRIOR TO PLACING THE ASPHALT PAVEMENT WILL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE THE VOLUME OF ADDITIONAL MATERIAL REQUIRED PER THE PROJECT PLANS.

7. THE QUANTITY FOR IMPORTING, ADDING, FINE GRADING AND COMPACTING ADDITIONAL PAVEMENT AGGREGATE BASE MATERIAL (MDOT 21AA CRUSHED LIMESTONE) REQUIRED TO ACHIEVE THE PROPOSED TOP OF BASE ELEVATIONS AND PRIOR TO PLACING THE ASPHALT PAVEMENT FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID AND THE EARTHWORK CALCULATIONS COMPLETED BY THE CONTRACTOR DURING THE BIDDING PROCESS. AS PART OF THE EARTHWORK CALCULATIONS, THE CONTRACTOR SHALL ASSUME THAT THE VOLUME OF 2" OF MATERIAL ACROSS THE ENTIRE AREA WILL BE REMOVED WITH THE PAVEMENT AND/OR CONSIDERED UN-USABLE BY THE QUALIFIED ENGINEERING TECHNICIAN AND NEED TO BE REPLACED WITH IMPORTED MDOT 21AA CRUSHED LIMESTONE.

8. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201045874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

DIMENSION AND PAVING PLAN

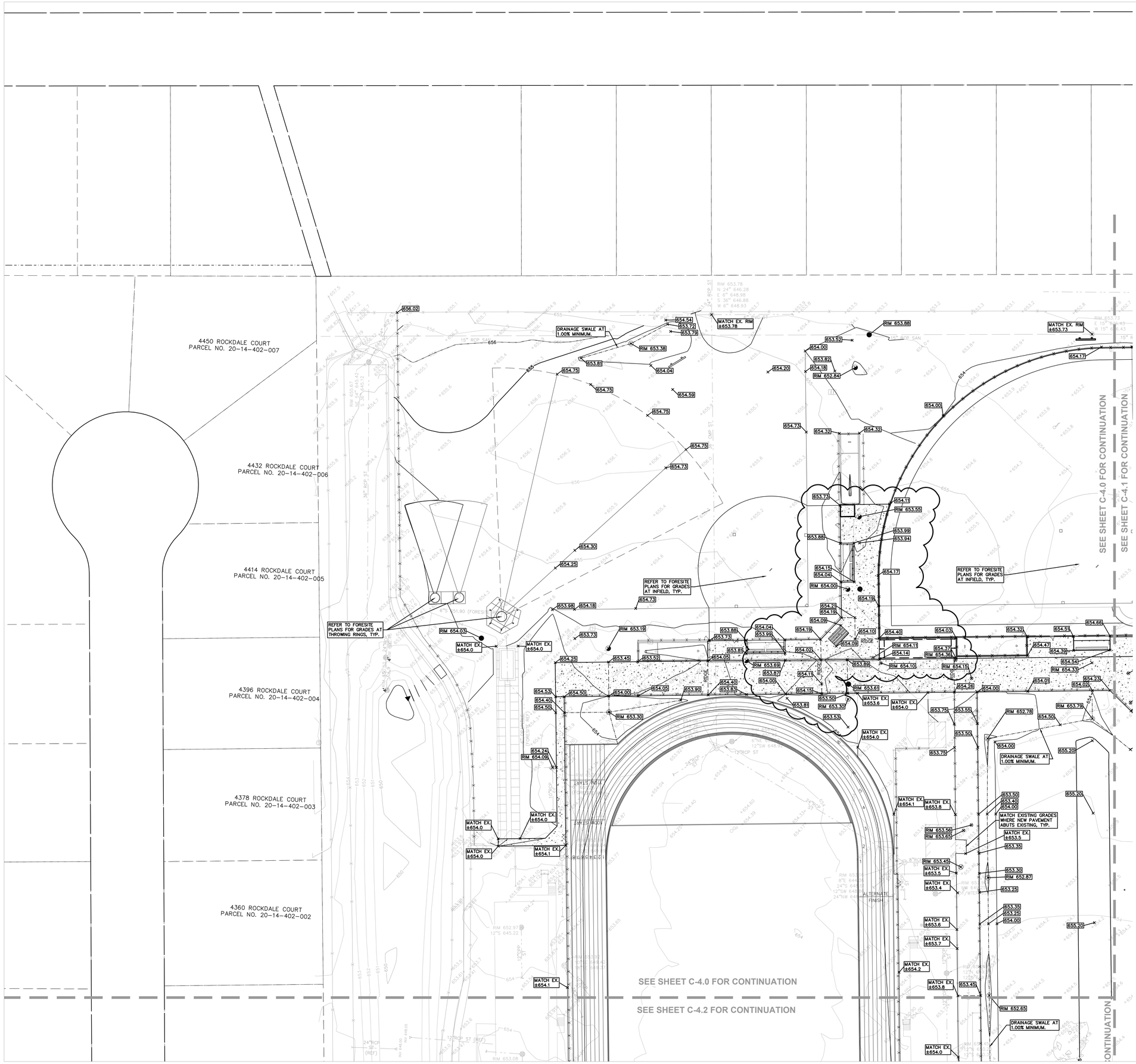
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO. **22103D**

DRAWING NO. **C-3.0**



GRADING LEGEND:

- EXISTING SPOT ELEVATION
- 622.50 — PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES
- EXISTING CONTOUR
- 922 — PROPOSED CONTOUR
- PROPOSED REVERSE GUTTER PAN
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB	G = GUTTER GRADE
T/P = TOP OF PAVEMENT	F.G. = FINISH GRADE
T/S = TOP OF SIDEWALK	RIM = RIM ELEVATION
T/W = TOP OF WALL	B/W = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET C-9.0.

RETAINING WALL NOTE:

TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

BENCHMARKS
(GPS DERIVED – NAVD88)

BM#300
ARROW ON HYDRANT IN FRONT OF SCHOOL BUILDING, ±30' EAST NORTHEAST OF THE NORTHEAST CORNER OF BUILDING
ELEV. – 658.04

BM#301
ARROW ON HYDRANT IN THE NORTHWEST CORNER OF THE NORTHWEST PARKING LOT ±5 FEET SOUTH OF THE 8 FOOT CHAIN LINK FENCE, ±40 FEET EAST NORTHEAST OF THE BUILDING CORNER
ELEV. – 657.14

BM#302
ARROW ON DIMPLE ON A HYDRANT LOCATED APPROX. 109'± SOUTH OF THE SCHOOL AUDITORIUM, ON THE NORTH SIDE OF ENTRANCE DRIVE TO THE STUDENT PARKING LOT, APPROX. 680'± WEST OF THE CENTERLINE OF JOHN R ROAD.
ELEV. – 655.46

BM#303
ARROW ON DIMPLE ON A HYDRANT LOCATED SOUTHEAST OF THE FOOTBALL FIELD/TRACK, APPROX. 36.5'± WEST OF THE BUILDING, NORTH OF THE AUDITORIUM ENTRANCE.
ELEV. – 656.70

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
GRADING PLAN - NORTH

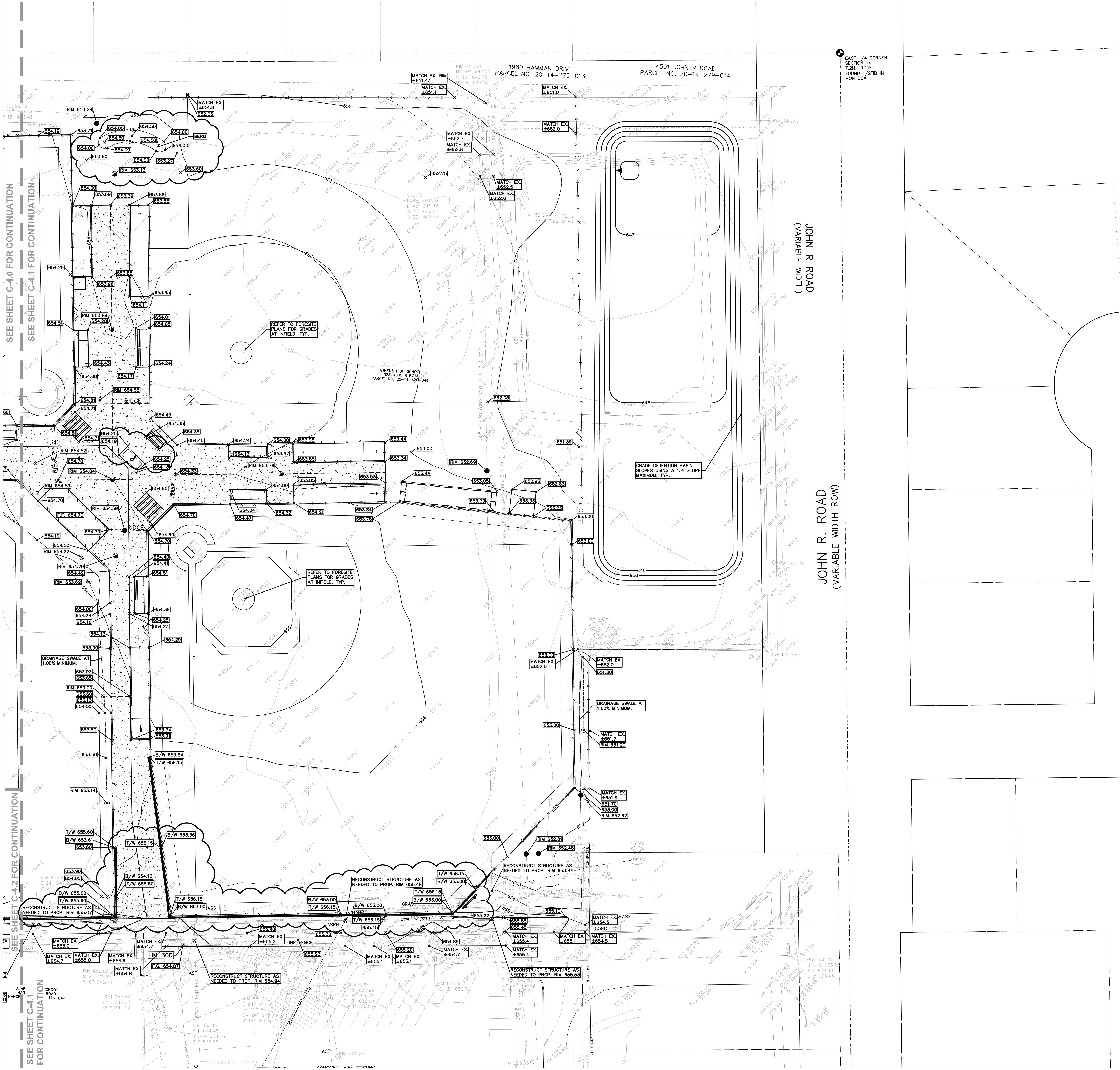
ISSUE DATES

01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-4.0

Drawing File: S:\PROJECTS\2021\21-0301 TROY SCHOOLS 2022 BOND\DWG\1_CONSTRUCTION\TROY ATHLETICS\TROY ATHENS - 2025\C-4.0GRADE-25-0301-AHA 2025.dwg
Jan 14, 2025 - 10:55am



GRADING LEGEND:

- +696.91 — EXISTING SPOT ELEVATION
- 622.50 — PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.
- 670 — EXISTING CONTOUR
- 922 — PROPOSED CONTOUR
- PROPOSED REVERSE GUTTER PAN
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB	G = GUTTER GRADE
T/P = TOP OF PAVEMENT	F.G. = FINISH GRADE
T/S = TOP OF SIDEWALK	RIM = RIM ELEVATION
T/W = TOP OF WALL	B/W = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET C-9.0.

RETAINING WALL NOTE:

TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE.

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

BENCHMARKS

(GPS DERIVED – NAVD88)

BM#300
ARROW ON HYDRANT IN FRONT OF SCHOOL BUILDING, ±30' EAST NORTHEAST OF THE NORTHEAST CORNER OF BUILDING
ELEV. – 658.04

BM#301
ARROW ON HYDRANT IN THE NORTHWEST CORNER OF THE NORTHWEST PARKING LOT ±5 FEET SOUTH OF THE 8 FOOT CHAIN LINK FENCE, ±40 FEET EAST NORTHEAST OF THE BUILDING CORNER
ELEV. – 657.14

BM#302
ARROW ON DIMPLE ON A HYDRANT LOCATED APPROX. 109'± SOUTH OF THE SCHOOL AUDITORIUM, ON THE NORTH SIDE OF ENTRANCE DRIVE TO THE STUDENT PARKING LOT, APPROX. 680'± WEST OF THE CENTERLINE OF JOHN R ROAD.
ELEV. – 655.46

BM#303
ARROW ON DIMPLE ON A HYDRANT LOCATED SOUTHEAST OF THE FOOTBALL FIELD/TRACK, APPROX. 36.5'± WEST OF THE BUILDING, NORTH OF THE AUDITORIUM ENTRANCE.
ELEV. – 656.70

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201045674
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

GRADING PLAN - EAST

ISSUE DATES

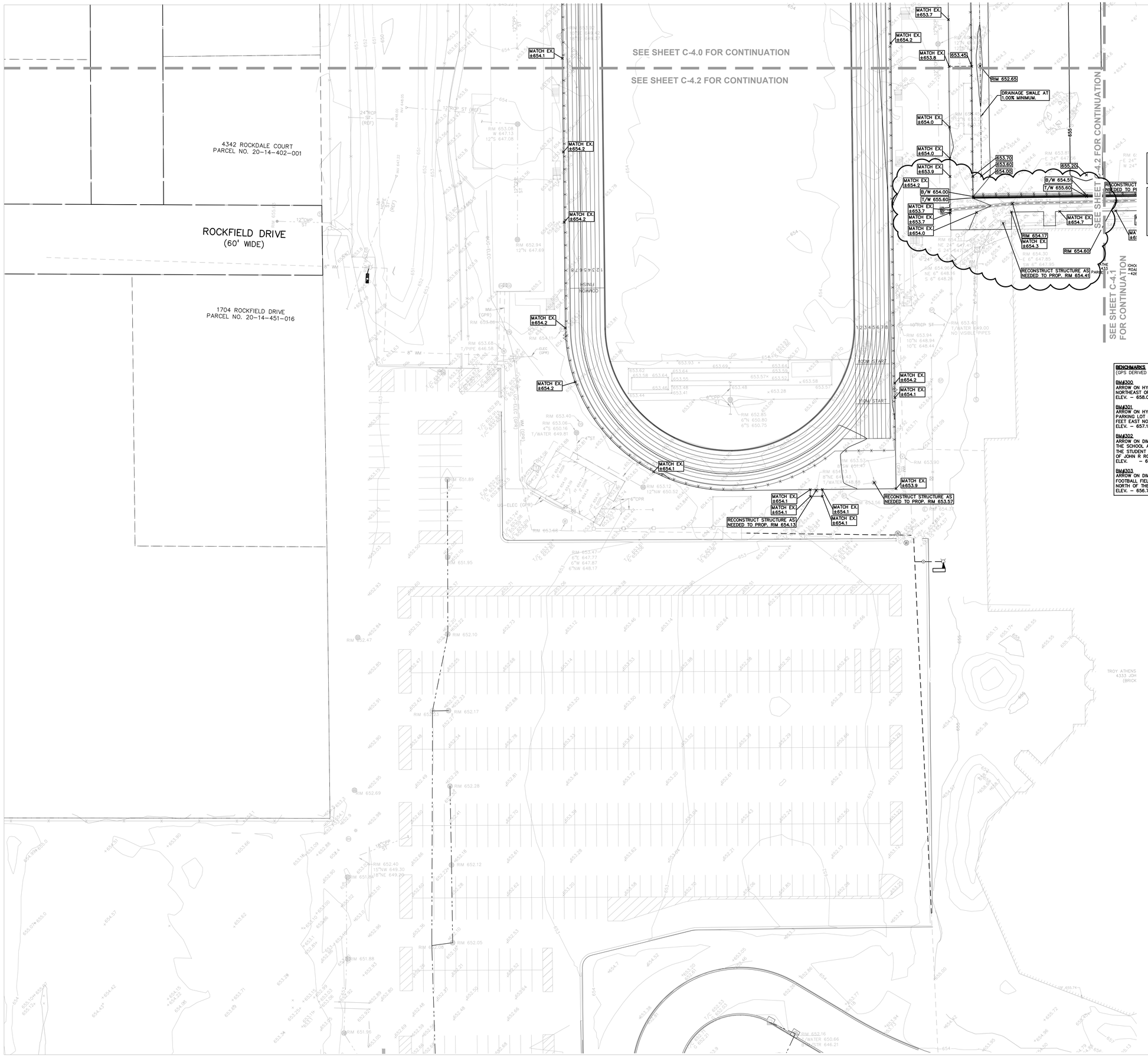
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-4.1

Drawing File: S:\PROJECTS\2023\23-0301 TROY SCHOOLS 2022 BOND\DWG\3_CONSTRUCTION\TROY ATHLETICS\TROY ATHENS - 2025\(C-4.0)GRADE-23-0301-AHA 2025.dwg
Jan 14, 2025 - 10:53am



GRADING LEGEND:

- EXISTING SPOT ELEVATION
- 622.50 — PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES
- EXISTING CONTOUR
- 922 — PROPOSED CONTOUR
- PROPOSED REVERSE GUTTER PAN
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB	G = GUTTER GRADE
T/P = TOP OF PAVEMENT	F.G. = FINISH GRADE
T/S = TOP OF SIDEWALK	RIM = RIM ELEVATION
T/W = TOP OF WALL	B/W = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET C-9.0.

RETAINING WALL NOTE:

TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

BENCHMARKS
(GPS DERIVED – NAVD88)

BM#300
ARROW ON HYDRANT IN FRONT OF SCHOOL BUILDING, ±30' EAST NORTHEAST OF THE NORTHEAST CORNER OF BUILDING
ELEV. – 658.04

BM#301
ARROW ON HYDRANT IN THE NORTHWEST CORNER OF THE NORTHWEST PARKING LOT ±5 FEET SOUTH OF THE 8 FOOT CHAIN LINK FENCE, ±40 FEET EAST NORTHEAST OF THE BUILDING CORNER
ELEV. – 657.14

BM#302
ARROW ON DIMPLE ON A HYDRANT LOCATED APPROX. 109'± SOUTH OF THE SCHOOL AUDITORIUM, ON THE NORTH SIDE OF ENTRANCE DRIVE TO THE STUDENT PARKING LOT, APPROX. 680'± WEST OF THE CENTERLINE OF JOHN R ROAD.
ELEV. – 655.46

BM#303
ARROW ON DIMPLE ON A HYDRANT LOCATED SOUTHEAST OF THE FOOTBALL FIELD/TRACK, APPROX. 36.5'± WEST OF THE BUILDING, NORTH OF THE AUDITORIUM ENTRANCE.
ELEV. – 656.70

NORTH

0 15 30 60
SCALE: 1" = 30'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS - MICHIGAN - 48302
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
GRADING PLAN - SOUTH

ISSUE DATES

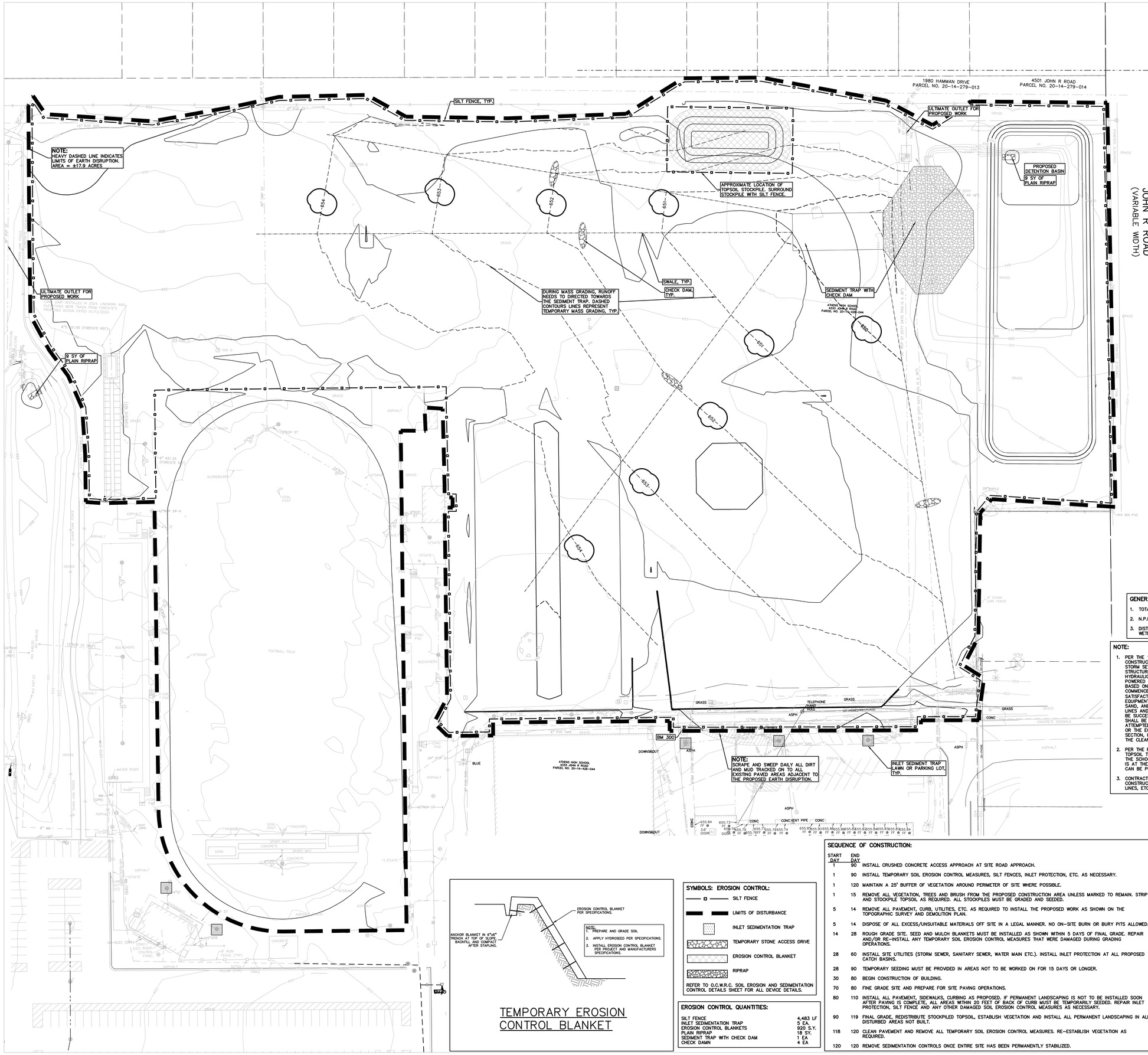
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-4.2

Drawing File: S:\PROJECTS\2021\21-0301 TROY SCHOOLS 2022 BOND\CAD\L3_CONSTRUCTION\TROY ATHLETICS\TROY ATHENS - 2025\SC-4.0\GRADE-21-0301-ANA 2025.dwg
Jan 14, 2025 - 10:53am



TEMPORARY EROSION CONTROL BLANKET

SYMBOLS: EROSION CONTROL:

- SILT FENCE
- LIMITS OF DISTURBANCE
- INLET SEDIMENTATION TRAP
- TEMPORARY STONE ACCESS DRIVE
- EROSION CONTROL BLANKET
- RIPRAP

REFER TO O.C.W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL DEVICE DETAILS.

EROSION CONTROL QUANTITIES:

SILT FENCE	4,483 LF
INLET SEDIMENTATION TRAP	5 EA.
EROSION CONTROL BLANKETS	920 S.Y.
PLAIN RIPRAP	18 SY.
SEDIMENT TRAP WITH CHECK DAM	1 EA
CHECK DAMN	4 EA

SEQUENCE OF CONSTRUCTION:

START DAY	END DAY	
1	90	INSTALL CRUSHED CONCRETE ACCESS APPROACH AT SITE ROAD APPROACH.
1	90	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
1	120	MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
1	15	REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5	14	REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
5	14	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
14	28	ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
28	60	INSTALL SITE UTILITIES (STORM SEWER, SANITARY SEWER, WATER MAIN ETC.). INSTALL INLET PROTECTION AT ALL PROPOSED CATCH BASINS.
28	90	TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
30	80	BEGIN CONSTRUCTION OF BUILDING.
70	80	FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
80	110	INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE, ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
90	119	FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
118	120	CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED.
120	120	REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

1. SEE CITY OF TROY SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS.
2. PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.
3. INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (80'x24'x8" W/MINIMUM OF 1"–3" CRUSHED CONCRETE – NO FINES).
4. REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION PLAN.
5. STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.
6. DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.
7. UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
8. MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS.
9. INSTALL HYDROSEED AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL REMAIN UNCHANGED FOR 30 DAYS OR GREATER. MINIMUM 3"–4" TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
10. COMPLETE ROUGH GRADING OF SITE. PLACE INLET FILTERS AT ALL INLETS AND CATCH BASINS, AS SHOWN.
11. FINISH GRADE AND PAVE SITE AS PROPOSED TO DRAIN TO STORM SEWER SYSTEM. REPAIR INLET FILTERS AS REQUIRED.
12. APPLY TOPSOIL, HYDROSEED TO ALL DISTURBED AREAS UPON COMPLETION OF GRADING. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
13. CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE AND TREE PROTECTION FENCE, AND INLET FILTERS ONCE VEGETATION HAS BEEN ESTABLISHED.
14. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY.
15. INLETS/CATCH BASINS TO BE CLEANED AFTER WEARING COARSE OF ASPHALT AND STRIPING HAS BEEN PLACED

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

1. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY:

   BARTON MALOW

2. IF ANY DAMAGE HAS OCCURRED AS A RESULT OF STORM WATER DISCHARGE FROM THE SITE, THE FOLLOWING STEPS SHALL BE IMPLEMENTED.
3. ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
4. ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
5. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
6. INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
7. CONTRACTOR SHALL PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.
8. IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY ENGINEERING DIVISION FOR REVEW.

GENERAL SITE CONDITIONS:

1. TOTAL DISTURBED AREA = ±17.9 ACRES
2. N.P.D.E.S. NOTICE OF COVERAGE IS REQUIRED
3. DISTANCE TO NEAREST LAKE, STREAM, POND, OPEN DRAIN, OR WETLAND = BIG BEAVER CREEK – NORTH PROPERTY LINE

NOTE:

1. PER THE 'SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION' NOTES THE SUCCESSFUL BIDDER TO THE CLEAN THE STORM SEWER. THIS CLEANING SHALL INCLUDE CLEANING OUT THE STRUCTURES AND ENTIRE SEWER RUNS BETWEEN STRUCTURES USING HYDRAULICALLY PROPELLED, HIGH–VELOCITY JET, OR MECHANICALLY POWERED EQUIPMENT. SELECTION OF THE EQUIPMENT USED SHALL BE BASED ON THE CONDITIONS OF LINES AT THE TIME THE WORK COMMENCES. THE EQUIPMENT AND METHODS SELECTED SHALL BE SATISFACTORY TO THE SCHOOL DISTRICT'S REPRESENTATIVE. THE EQUIPMENT SHALL BE CAPABLE OF REMOVING DIRT, GREASE, ROCKS, SAND, AND OTHER MATERIALS AND OBSTRUCTIONS FROM THE SEWER LINES AND MANHOLES. IF CLEANING OF AN ENTIRE SECTION CANNOT BE SUCCESSFULLY PERFORMED FROM ONE MANHOLE, THE EQUIPMENT SHALL BE SET UP ON THE OTHER MANHOLE AND CLEANING AGAIN ATTEMPTED. IF, AGAIN, SUCCESSFUL CLEANING CANNOT BE PERFORMED OR THE EQUIPMENT FAILS TO TRAVERSE THE ENTIRE MANHOLE SECTION, IT WILL BE ASSUMED THAT A MAJOR BLOCKAGE EXISTS AND THE CLEANING EFFORT SHALL BE ABANDONED.
2. PER THE PROJECT SPECIFICATIONS; PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL DISTRICT OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
3. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.

NORTH

0 20 40 80

SCALE: 1" = 40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS - MICHIGAN - 48302
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

PHASE I SESC PLAN

ISSUE DATES

DATE:	ISSUED FOR:
01–14–2025	ADDENDUM NO. 1
12–10–2024	CONSTRUCTION DOCUMENTS

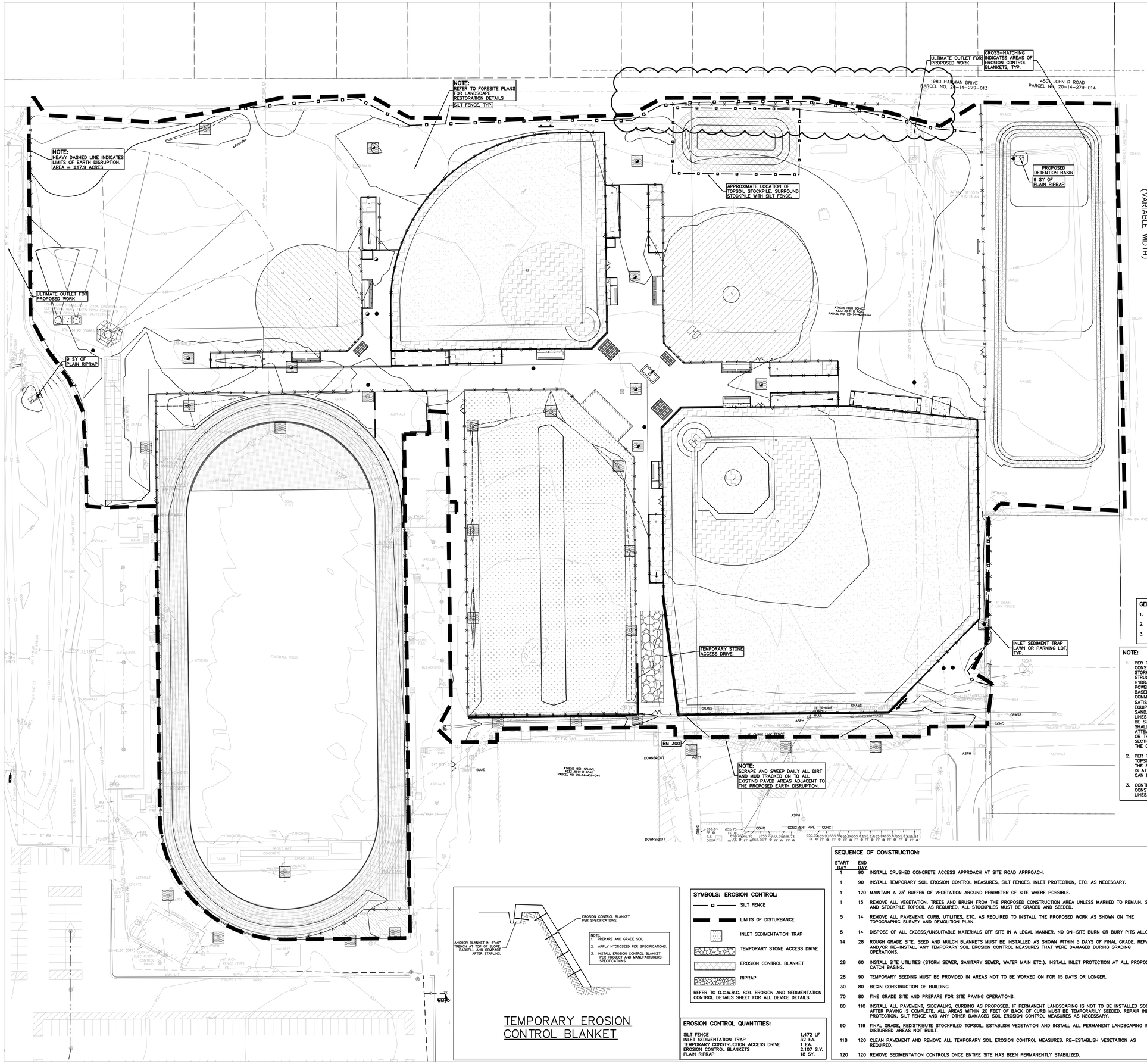
DRAWN JW
CHECKED TD
APPROVED TD

PROJECT NO.

22103D

DRAWING NO.

C-5.0



SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

1. SEE CITY OF TROY SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS.
2. PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.
3. INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (80'x24'x8" W/MINIMUM OF 1"–3" CRUSHED CONCRETE – NO FINES).
4. REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION PLAN.
5. STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.
6. DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.
7. UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
8. MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS.
9. INSTALL HYDROSEED AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL REMAIN UNCHANGED FOR 30 DAYS OR GREATER. MINIMUM 3"–4" TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
10. COMPLETE ROUGH GRADING OF SITE. PLACE INLET FILTERS AT ALL INLETS AND CATCH BASINS, AS SHOWN.
11. FINISH GRADE AND PAVE SITE AS PROPOSED TO DRAIN TO STORM SEWER SYSTEM. REPAIR INLET FILTERS AS REQUIRED.
12. APPLY TOPSOIL, HYDROSEED TO ALL DISTURBED AREAS UPON COMPLETION OF GRADING. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
13. CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE AND TREE PROTECTION FENCE, AND INLET FILTERS ONCE VEGETATION HAS BEEN ESTABLISHED.
14. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY.
15. INLETS/CATCH BASINS TO BE CLEANED AFTER WEARING COARSE OF ASPHALT AND STRIPING HAS BEEN PLACED

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

1. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY:

   BARTON MALOW

2. IF ANY DAMAGE HAS OCCURRED AS A RESULT OF STORM WATER DISCHARGE FROM THE SITE, THE FOLLOWING STEPS SHALL BE IMPLEMENTED.
3. ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
4. ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
5. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
6. INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
7. CONTRACTOR SHALL PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.
8. IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY ENGINEERING DIVISION FOR REVIEW.

GENERAL SITE CONDITIONS:

1. TOTAL DISTURBED AREA = ±17.9 ACRES
2. N.P.D.E.S. NOTICE OF COVERAGE IS REQUIRED
3. DISTANCE TO NEAREST LAKE, STREAM, POND, OPEN DRAIN, OR WETLAND = BIG BEAVER CREEK – NORTH PROPERTY LINE

NOTE:

1. PER THE 'SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION' NOTES THE SUCCESSFUL BIDDER TO THE CLEAN THE STORM SEWER. THIS CLEANING SHALL INCLUDE CLEANING OUT THE STRUCTURES AND ENTIRE SEWER RUNS BETWEEN STRUCTURES USING HYDRAULICALLY PROPELLED, HIGH–VELOCITY JET, OR MECHANICALLY POWERED EQUIPMENT. SELECTION OF THE EQUIPMENT USED SHALL BE BASED ON THE CONDITIONS OF LINES AT THE TIME THE WORK COMMENCES. THE EQUIPMENT AND METHODS SELECTED SHALL BE SATISFACTORY TO THE SCHOOL DISTRICT'S REPRESENTATIVE. THE EQUIPMENT SHALL BE CAPABLE OF REMOVING DIRT, GREASE, ROCKS, SAND, AND OTHER MATERIALS AND OBSTRUCTIONS FROM THE SEWER LINES AND MANHOLES. IF CLEANING OF AN ENTIRE SECTION CANNOT BE SUCCESSFULLY PERFORMED FROM ONE MANHOLE, THE EQUIPMENT SHALL BE SET UP ON THE OTHER MANHOLE AND CLEANING AGAIN ATTEMPTED. IF, AGAIN, SUCCESSFUL CLEANING CANNOT BE PERFORMED OR THE EQUIPMENT FAILS TO TRAVERSE THE ENTIRE MANHOLE SECTION, IT WILL BE ASSUMED THAT A MAJOR BLOCKAGE EXISTS AND THE CLEANING EFFORT SHALL BE ABANDONED.
2. PER THE PROJECT SPECIFICATIONS; PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL DISTRICT OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
3. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.

TEMPORARY EROSION CONTROL BLANKET

SYMBOLS: EROSION CONTROL:

- SILT FENCE
- LIMITS OF DISTURBANCE
- INLET SEDIMENTATION TRAP
- TEMPORARY STONE ACCESS DRIVE
- EROSION CONTROL BLANKET
- RIPRAP

REFER TO O.C.W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL DEVICE DETAILS.

EROSION CONTROL QUANTITIES:

SILT FENCE	1,472 LF
INLET SEDIMENTATION TRAP	32 EA.
TEMPORARY CONSTRUCTION ACCESS DRIVE	1 EA.
EROSION CONTROL BLANKETS	2,107 S.Y.
PLAIN RIPRAP	18 SY.

SEQUENCE OF CONSTRUCTION:

START DAY	END DAY	
1	90	INSTALL CRUSHED CONCRETE ACCESS APPROACH AT SITE ROAD APPROACH.
1	90	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
1	120	MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
1	15	REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5	14	REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
5	14	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON–SITE BURN OR BURY PITS ALLOWED.
14	28	ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE–INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
28	60	INSTALL SITE UTILITIES (STORM SEWER, SANITARY SEWER, WATER MAIN ETC.). INSTALL INLET PROTECTION AT ALL PROPOSED CATCH BASINS.
28	90	TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
30	80	BEGIN CONSTRUCTION OF BUILDING.
70	80	FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
80	110	INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE, ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
90	119	FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
118	120	CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE–ESTABLISH VEGETATION AS REQUIRED.
120	120	REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

NORTH

0 20 40 80

SCALE: 1" = 40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @ TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

PHASE II SESC PLAN

ISSUE DATES

DATE:	ISSUED FOR:
01–14–2025	ADDENDUM NO. 1
12–10–2024	CONSTRUCTION DOCUMENTS

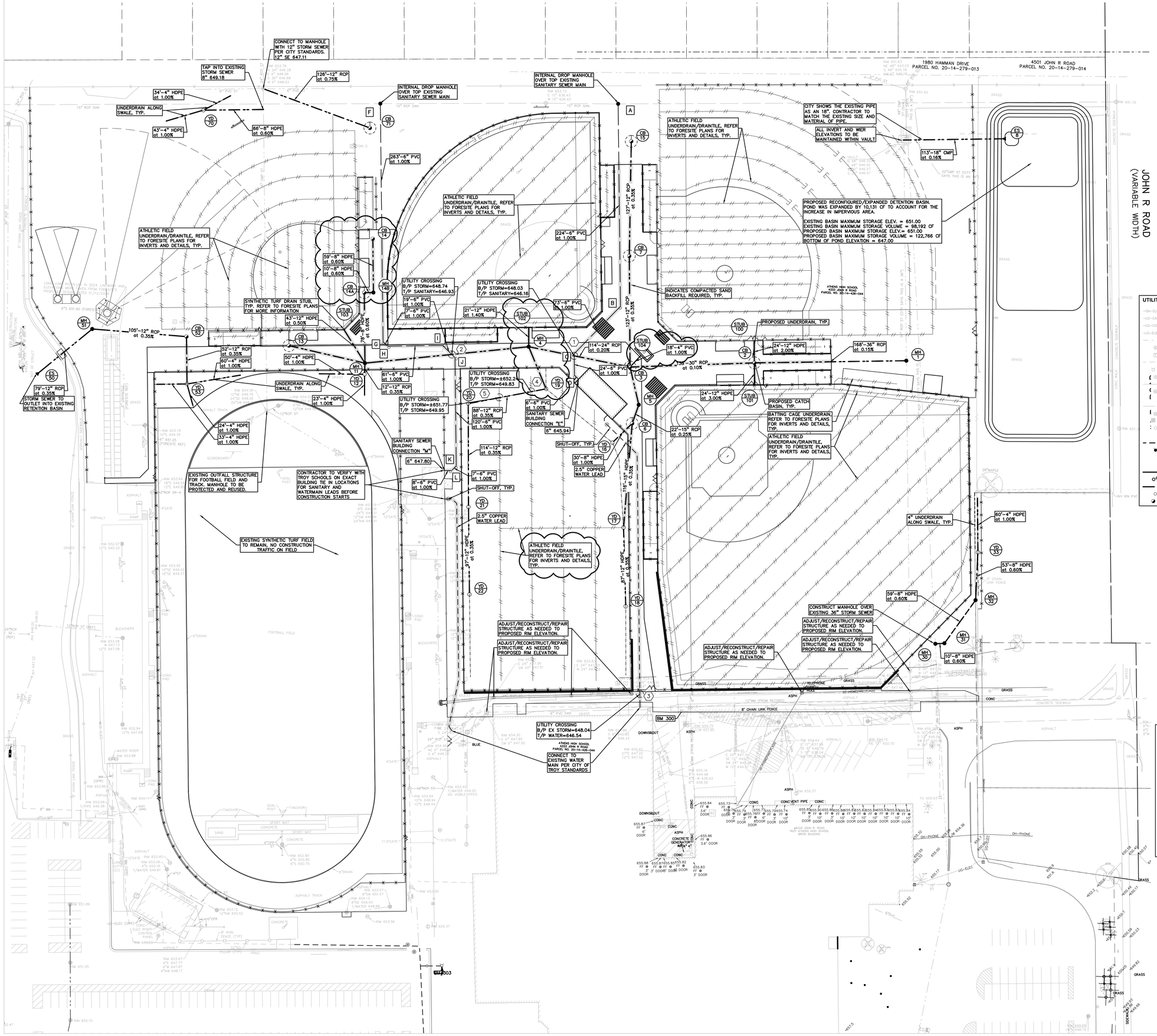
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.

22103D

DRAWING NO.

C-5.1



UTILITY LEGEND:

- EX. OH. ELEC, POLE & GUY WIRE
- EX. U.G. CABLE TV & PEDESTAL
- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
- EX. U.G. ELEC.,MANHOLE, METER & HANDHOLE
- EX. GAS LINE
- EX. GAS VALVE & GAS LINE MARKER
- EX. TRANSFORMER & IRRIGATION VALVE
- EX. WATER MAIN
- EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
- EX. WATER VALVE BOX & SHUTOFF
- EX. SANITARY SEWER
- EX. SANITARY CLEANOUT & MANHOLE
- EX. COMBINED SEWER MANHOLE
- EX. STORM SEWER
- EX. CLEANOUT & MANHOLE
- EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN
- EX. YARD DRAIN & ROOF DRAIN
- EX. UNIDENTIFIED STRUCTURE
- PROPOSED WATER MAIN
- PROPOSED HYDRANT AND GATE VALVE
- PROPOSED TAPPING SLEEVE, VALVE & WELL
- PROPOSED POST INDICATOR VALVE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY CLEANOUT & MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM SEWER CLEANOUT & MANHOLE
- PROPOSED CATCH BASIN, INLET & YARD DRAIN

STORM SEWER QUANTITIES:

4" HDPE UNDERDRAIN WITH SOCK	777 LF
8" HDPE	356 LF
12" RCP CL-IV PIPE	958 LF
12" HDPE PIPE	297 LF
15" RCP CL-IV PIPE	65 LF
15" HDPE PIPE	116 LF
18" RCP CL-IV PIPE	201 LF
18" CMP	113 LF
24" RCP CL-IV PIPE	96 LF
30" RCP CL-IV PIPE	138 LF
36" RCP CL-IV PIPE	168 LF
12" CONC. END SECTION	1 EA.
18" CMP END SECTION	1 EA.
3 DIA. YARD DRAIN INLET	8 EA.
4 DIA. YARD DRAIN INLET	3 EA.
4' DIA. CATCH BASIN	7 EA.
4' DIA. MANHOLE	4 EA.
5' DIA. CATCH BASIN	2 EA.
5' DIA. MANHOLE	2 EA.
6' DIA. MANHOLE	1 EA.
7' DIA. MANHOLE	1 EA.
CONSTRUCT MH OVER EXISTING LINE	1 EA.
TAP EXISTING MANHOLE	1 EA.

SANITARY SEWER QUANTITIES:

6" PVC SDR 23.5 PIPE	813 LF
CLEANOUT AND BOX	9 EA.
5' DIA. MANHOLE	2 EA.

WATER MAIN QUANTITIES:

2.5" COPPER 'K' WATER LEAD	609 LF
SHUT OFF VALVE	2 EA.
CONNECT TO EXISTING 12" WATERMAIN	2 EA.

STORM SEWER ALLOWANCE QUANTITIES:

48" CMP	201 LF

CITY OF TROY STORM SEWER FRAME AND COVER NOTES

MANHOLE
FRAME: EJ 1000
COVER: TYPE "C" PERFORATED WITH "CITY OF TROY STORM" TEXT

CATCH BASIN - PAVEMENT (RESIDENTIAL)
FRAME: EJ 5080
COVER: SINUSOIDAL M2

CATCH BASIN - PAVEMENT (NON-RESIDENTIAL)
FRAME: EJ 5105
COVER: SINUSOIDAL M2

CATCH BASIN - NON-PAVEMENT
FRAME: EJ 1000
COVER: TYPE "M","N" OR "01" HEAVY DUTY

CATCH BASIN - LANDSCAPE AREA OR ROADSIDE DITCH MAY REQUIRE:
- EJ 1040 TYPE "N" OVAL GRATE OR TYPE 02 BEEHIVE GRATE
- EJ 1130 TYPE "N" OVAL GRATE OR TYPE 01 BEEHIVE GRATE
- EJ 2800 TYPE "N" OVAL GRATE OR TYPE 02 BEEHIVE GRTE
- EJ 6508 OR EJ6517

NOTE:
CONTRACTOR TO VERIFY ALL QUANTITIES. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF PEA GROUP FOR VERIFICATION, PRIOR TO BIDDING.

PREMIUM TRENCH BACKFILL NOTE:
ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) SHALL HAVE M.D.O.T. CLASS II GRANULAR BACKFILL COMPACTED TO 95% MAX. DRY DENSITY (ASTM D-1557).

REFER TO:
UTILITY NOTES ON SHEET C-9.0
STORM SEWER DESIGN ON SHEET C-8.0
UTILITY NOTES AND DETAILS ON SHEET C-9.0

NORTH

0 20 40 80
SCALE: 1" = 40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
UTILITY PLAN

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-6.0

Site Drainage Data				
Select County:	Oakland			
Existing				
Natural Greenspace area:	4.60	acre	C =	0.30
Select NCRS Soil type:	D			
Improved Greenspace area:		acre	C =	0.30
Select NCRS Soil type:	D			
Wooded Area:		acre	C =	0.30
Select NCRS Soil type:	D			
Impervious Area:	0.00	acre	C =	0.95
Greenbelt Area:	4.60	acre	C =	0.30
Total Area (A):	4.60	acre		
Weighted Coefficient of Runoff (C):		0.30		
Proposed				
Natural Greenspace area:	0.00	acre	C =	0.30
Select NCRS Soil type:	D			
Improved Greenspace area:	0.00	acre	C =	0.30
Select NCRS Soil type:	D			
Turf/Clay/Sand Area:	4.47	acre	C =	0.63
Select NCRS Soil type:	D			
Impervious Area:	0.13	acre	C =	0.95
Greenbelt Area:	4.47	acre	C =	0.63
Total Area (A):	4.60	acre		
Weighted Coefficient of Runoff (C):		0.63		
Rainfall Intensity				
Flood Control Time of Concentration, Tc =	20.00	minutes		

Rainfall Intensity		12/18/2024 Datcalcs V2.02
Time of Concentration (T_C)	20.00	min
Since 15<Tc<60, use intensity equation		
I1 = 30.2 /[(T + 9.17)^.81]	1.97	in/hr
I10 = 50.12 / [(T + 9.17)^.81]	3.26	in/hr
I100 = 83.3/[(T + 9.17)^.81]	5.42	in/hr
CPVC: Channel Protection Volume Control Volume		
Vcpvc = (4719)CA	13,676	cf
CPRC: Channel Protection Rate Control Volume: Extended Detention		
Ved= (6897)CA	19,988	cf
Q_{VED} = V_{ED} / (48*60*60)	0.12	cfs
Forebay Calculations		
Forebay Volume = (545)CA	1,579	cf
Forebay Release Rate: QVF = VF/(48*60*60)	0.01	cfs
100-Year Allowable Outlet Rate		
Since 2<A<100, Qvrr = 1.1055-0.206xln(A)		
Q_{VRR} =	0.79	cfs/ac
100-Year Peak Allowable Discharge		
Area, A =	4.60	ac
Q_{100P} = Q_{VRR}(A)	3.64	cfs
100-Year Runoff Volume		
V100R = (18,985)CA	55,019	cf
100-Year Peak Inflow		
Q_{100IN} = C(I_{100})A	15.71	cfs
Storage Curve Factor (Vs/Vr)		
R = 0.206-0.15 x ln(Q100P/Q100IN)	0.425	
100-Year Storage Volume		
Vs = R(V100R)	23,383	cf
No infiltration will be provided, so no CPVC deduction is taken.		
V100D = Vs	23,383	cf
V_{100D} must be larger or equal to V_{ED} :		
Is V_{100D}>= V_{ED} ?	**Yes**	
V_{100D} =	23,383	cf

STORM WATER NARRATIVE:

THE MODIFICATIONS TO THE SITE ASSOCIATED WITH THIS PROJECT WILL BRING ABOUT A SLIGHT INCREASE IN THE IMPERVIOUS SURFACE FOR THE DRAINAGE AREA. CALCULATIONS WERE PERFORMED TO DETERMINE THE INCREASE IN STORAGE VOLUME REQUIRED BY THIS INCREASE IN IMPERVIOUS SURFACE AND THE DETENTION BASIN WILL BE REGRADED TO PROVIDE THE ADDITIONAL VOLUME NECESSARY.

THE PROPOSED SITE DEVELOPMENT ADDS AN ADDITIONAL 0.13 ACRES OF IMPERVIOUS AREA AND 4.47 ACRES OF TURF/CLAY/SAND ATHLETICS FIELDS. THE VAST MAJORITY OF THE PROPOSED IMPERVIOUS AREA WILL DRAIN TO THE EXISTING NORTHEAST BASIN. THE REQUIRED POND EXPANSION IS BASED ON THE OAKLAND COUNTY DESIGN METHOD FOR THE 100-YEAR STORM EVENT, WHICH CAN BE SEEN ON THIS SHEET. THE POND WILL NEED TO INCLUDE AN ADDITIONAL 23,383 CUBIC FEET. THE MAXIMUM STORAGE OF THE EXISTING BASIN IS 98,192 CUBIC FEET AND ADDING IN THE REQUIRED 100-YEAR ADDITIONAL IMPERVIOUS VOLUME, THE TOTAL POND WILL BE EXPANDED TO 122,766 CUBIC FEET. THE DETENTION POND REGRADE WILL INCORPORATE A TOTAL INCREASE IN VOLUME OF 24,574 CUBIC FEET. A COMPARISON OF THE EXISTING AND PROPOSED DEPTH/VOLUME RELATIONSHIP IS SHOWN BELOW.

CONTOUR	EXISTING CONDITION			PROPOSED CONDITION		
	AREA	VOLUME	TOTAL	AREA	VOLUME	TOTAL
	SF	CF	CF	SF	CF	CF
647	137		0	6,434		0
648	16,189	8,163	8,163	20,322	13,378	13,378
649	27,869	22,029	30,192	36,768	28,545	41,923
650	32,282	30,076	60,268	40,396	38,582	80,505
651	43,566	37,924	98,192	44,125	42,261	122,766

MAXIMUM WATER SURFACE ELEVATION (WSEL):	651.00
EXISTING STORAGE VOLUME AT MAXIMUM WSEL:	98,192
PROPOSED STORAGE VOLUME AT MAXIMUM WSEL:	122,766
INCREASE IN STORAGE VOLUME:	24,574

STORM STRUCTURES

MH	1	(6' DIA./0' SUMP) RIM = 652.69 36" W 646.96 36" S 646.86 36" N 646.86
CB	2	(5' DIA./0' SUMP) RIM = 653.76 30" W 647.61 12" N 648.81 12" S 648.65 36" E 647.21
CB	3	(5' DIA./0' SUMP) RIM = 654.04 24" W 648.15 12" N 648.25 15" S 648.25 4" NE 650.00 30" E 647.75
MH	4	(5' DIA./2' SUMP) RIM = 654.29
MH	5	(4' DIA./0' SUMP) RIM = 654.59 15" S 648.36 15" N 648.36
CB	6	(4' DIA./2' SUMP) RIM = 654.29 15" S 648.41 8" SW 648.88 15" N 648.41
CB	7	(4' DIA./2' SUMP) RIM = 653.89 12" N 648.68 12" S 648.68
MH	11	(7' DIA./0' SUMP) RIM = 653.61 12" S 649.44 12" NW 649.54 8" N 649.24 12" W 649.54 18" E 649.10
YD	12	(4' DIA./2' SUMP) RIM = 653.30 4" W 649.59 4" S 649.59 12" N 649.49
CB	13	(4' DIA./2' SUMP) RIM = 653.69 12" E 649.84
MH	14B	(4' DIA./0' SUMP) RIM = 654.14 8" N 649.87 8" W 649.87
CB	14	(4' DIA./2' SUMP) RIM = 653.55 8" S 650.32
CB	14A	(4' DIA./2' SUMP) RIM = 654.00 8" E 649.81 8" S 649.71
CB	15	(4' DIA./2' SUMP) RIM = 653.13 12" S 649.12
YD	16	(3' DIA./1' SUMP) RIM = 653.62 8" NE 649.18
YD	17	(4' DIA./2' SUMP) RIM = 653.00 12" S 649.02 15" N 648.82
YD	18	(3' DIA./2' SUMP) RIM = 653.14 12" N 649.32
YD	19	(3' DIA./2' SUMP) RIM = 653.79 12" W 648.60 12" NW 648.62
YD	20	(3' DIA./2' SUMP) RIM = 652.78 12" S 648.91 12" E 648.91
YD	21	(3' DIA./2' SUMP) RIM = 652.87 12" S 649.31 12" N 649.31
YD	22	(3' DIA./2' SUMP) RIM = 652.65 12" N 649.65
MH	30	(5' DIA./0' SUMP) RIM = 652.81 36" S 647.38 8" E 647.85 36" N 647.38
MH	31	(4' DIA./0' SUMP) RIM = 652.49 8" NE 647.81 8" W 647.91
MH	32	(4' DIA./1' SUMP) RIM = 652.62 8" N 648.16
YD	33	(3' DIA./1' SUMP) RIM = 651.20 4" N 648.58 8" S 648.48
MH	51	(4' DIA./0' SUMP) RIM = 654.03 12" E 649.28 12" SW 649.28
CB	52	(4' DIA./0' SUMP) RIM = 653.19 12" S 649.64 12" W 649.64
YD	53	(4' DIA./0' SUMP) RIM = 653.30 4" E 649.92 4" W 649.92 4" S 649.92 12" N 649.83
YD	70	(3' DIA./2' SUMP) RIM = 653.38 4" W 649.68 4" NE 649.68 8" E 649.58
CB	71	12" W 647.94
STUB	100	12" S 649.30
STUB	101	12" N 649.37
STUB	102	
STUB	103	12" SE 649.76
STUB	104	4" SW 650.18

END SECTIONS

8	END SECTION 18" 646.24 — END SECTION MATERIAL: CMP
50	END SECTION 12" 649.00 — END SECTION MATERIAL: RCP

SANITARY STRUCTURES

*	A	MH (5' DIA.) RIM = 653.29 15" W 636.19 6" S 642.66 15" E 636.19
*	F	MH (5' DIA.) RIM = 653.88 15" W 637.00 6" S 642.95 15" E 637.00

* INTERNAL DROP MANHOLE

SANITARY CLEANOUTS

K	C.O. IN BOX RIM = 653.57 INV. 647.65
L	C.O. IN BOX RIM = 653.63 INV. 647.72
H	C.O. IN BOX RIM = 654.11 INV. 645.65
G	C.O. IN BOX RIM = 654.14 INV. 645.58
J	C.O. IN BOX RIM = 654.17 INV. 646.45
I	C.O. IN BOX RIM = 654.35 INV. 646.26
B	C.O. IN BOX RIM = 654.53 INV. 644.91
C	C.O. IN BOX RIM = 654.54 INV. 645.64
D	C.O. IN BOX RIM = 654.56 INV. 645.88

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS - MICHIGAN - 48302
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District Troy, Michigan

DRAWING TITLE
BASIN CALCS AND STRUCTURE TABLE

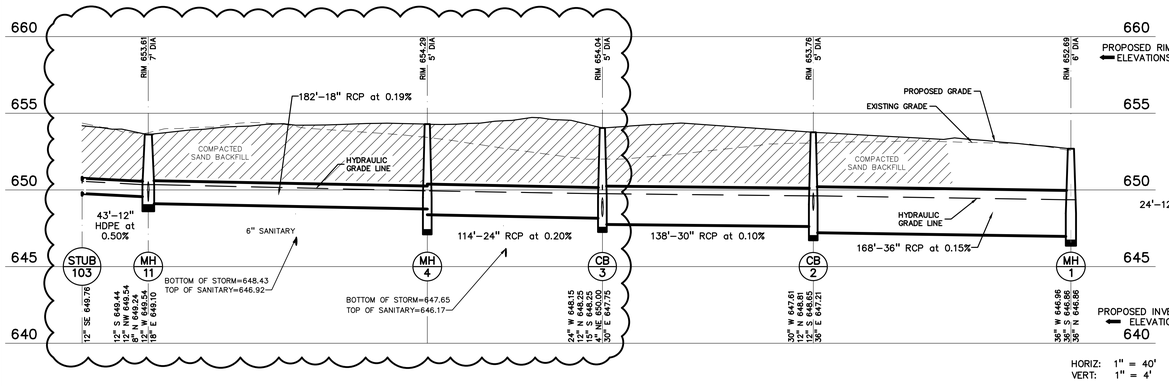
ISSUE DATES

01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

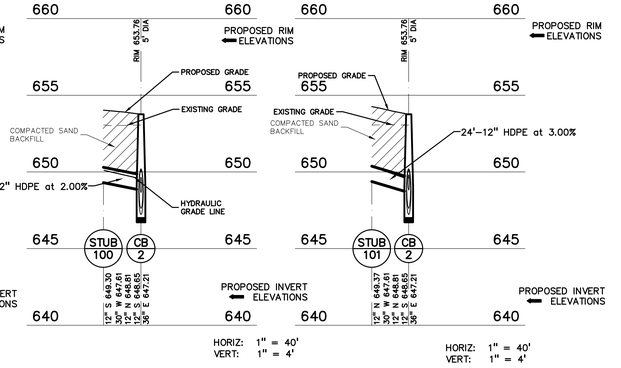
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-6.1

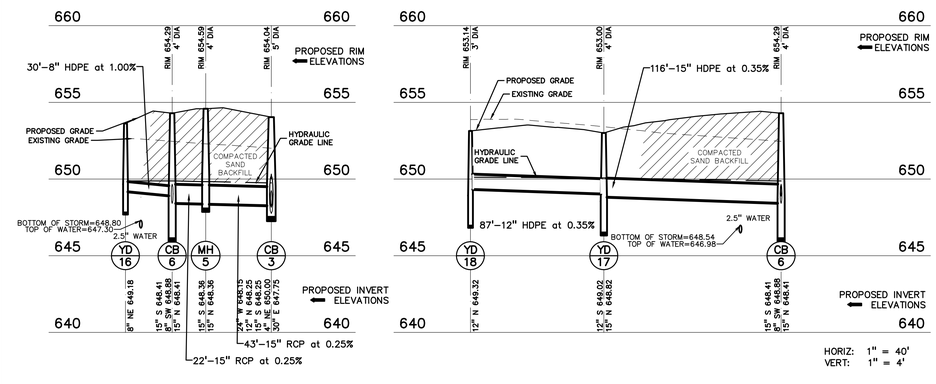


ST 103–1 PROFILE



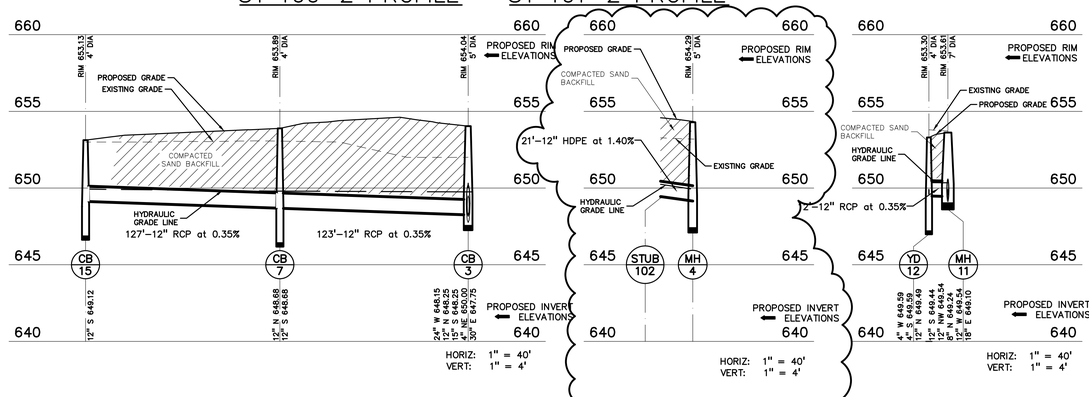
ST 100–2 PROFILE

ST 101–2 PROFILE



ST 16–3 PROFILE

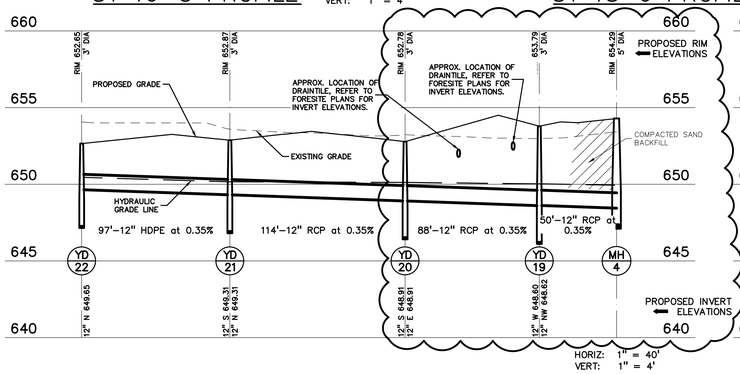
ST 18–6 PROFILE



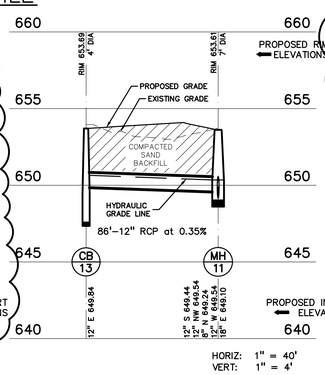
ST 15–3 PROFILE

ST 102–4 PROFILE

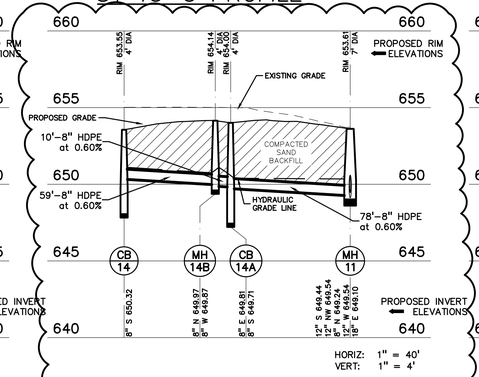
ST 12–11 PROFILE



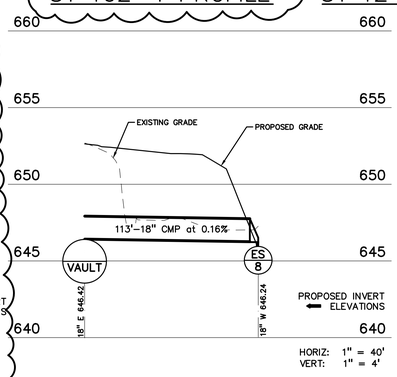
ST 22–4 PROFILE



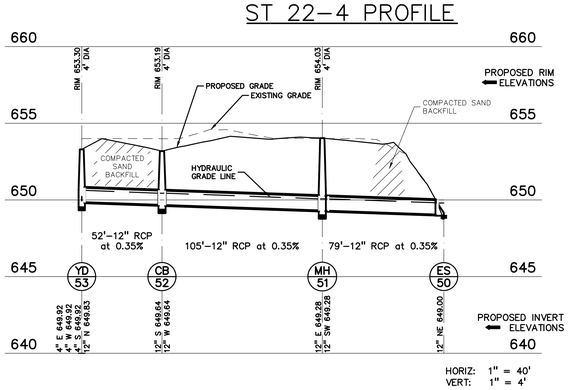
ST 13–11 PROFILE



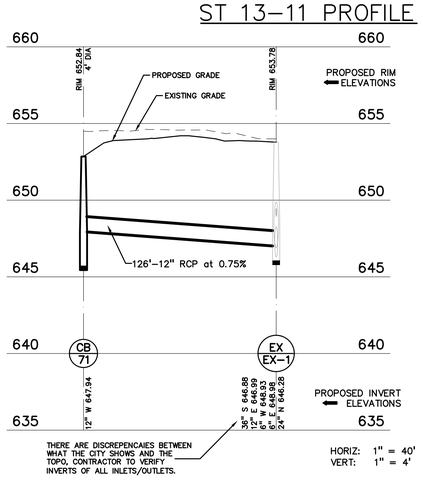
ST 14–11 PROFILE



ST VAULT–8 PROFILE



ST 53–50 PROFILE



THERE ARE DISCREPENCAIES BETWEEN WHAT THE CITY SHOWS AND THE TOPO, CONTRACTOR TO VERIFY INVERTS OF ALL INLETS/OUTLETS.

ST 71–EX PROFILE

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @ TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

UTILITY PROFILES

ISSUE DATES

01–14–2025	ADDENDUM NO. 1
12–10–2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:

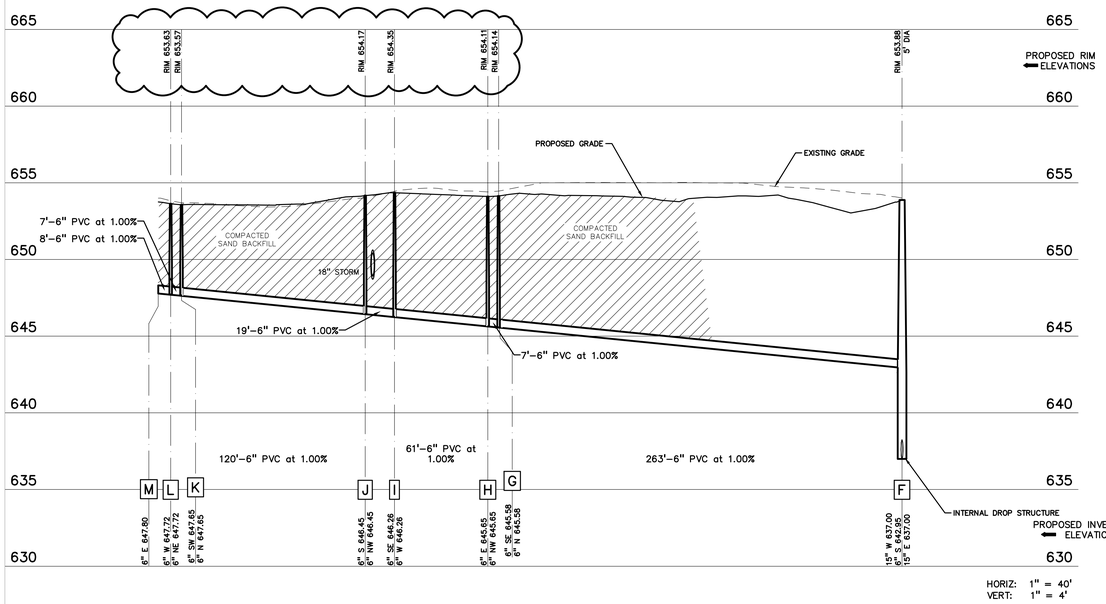
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.

22103D

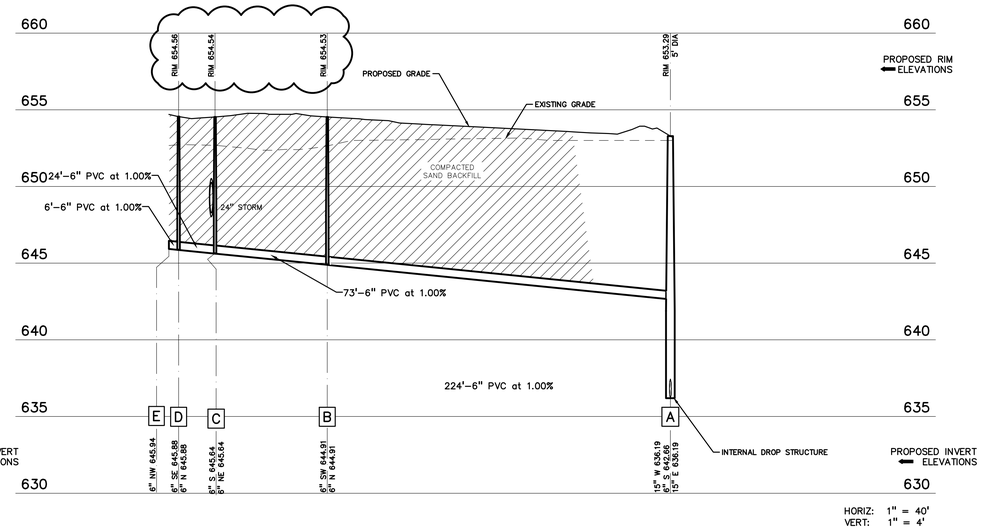
DRAWING NO.

C-7.0



HORIZ: 1" = 40'
VERT: 1" = 4'

EXISTING SHED SANITARY SEWER PROFILE



HORIZ: 1" = 40'
VERT: 1" = 4'

PROPOSED BUILDING SANITARY SEWER PROFILE

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @ TMP-ARCHITECTURE.COM

STATE OF MICHIGAN
JOSEPH B. WYWROT
ENGINEER
No. 6201046874
LICENSED PROFESSIONAL ENGINEER

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE

Athens High School Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
UTILITY PROFILES

ISSUE DATES

01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-7.1

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

1. ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
2. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
4. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
5. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
6. CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
7. ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
8. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY, AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
10. THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

PAVING NOTES:

1. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
2. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
3. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
4. ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.
5. CONCRETE PAVEMENT JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION;
   - 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO ALLOW FOR SEALING.
   - 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
   - 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT.
   - 5.4. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS:
     - 5.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12'
     - 5.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
   - 5.5. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
   - 5.6. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
6. CONCRETE CURBING JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION
   - 6.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT
     - 6.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS
     - 6.1.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
     - 6.1.3. PLACE 1" EXPANSION JOINT:
       - 6.1.3.1. AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE
       - 6.1.3.2. AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS
       - 6.1.3.3. AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED LANDSCAPE ISLAND
   - 6.2. JOINTS WHEN TIED TO CONCRETE PAVEMENT
     - 6.2.1. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE CONTRACTION JOINTS IN PAVEMENT
     - 6.2.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
     - 6.2.3. PLACE 1" EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT
     - 6.2.4. CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT)
   - 6.3. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT):
     - 6.3.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
     - 6.3.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT SPECIFICATIONS
7. CONCRETE SIDEWALK JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION
   - 7.1. PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE WALK WHEN WIDTH IS LESS THAN 8'
   - 7.2. PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER THAN 8'
   - 7.3. PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION
   - 7.4. PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100' SPACING
   - 7.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES), UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS

GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.
2. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
3. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE CITY PRIOR TO CONSTRUCTION.
5. ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
6. REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
7. THE DETENTION BASIN SIDE SLOPES AND ALL SLOPE EXCEEDING 1:6 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.
8. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
10. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
11. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
12. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
13. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
14. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

GENERAL UTILITY NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY.
2. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.
3. WHERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITIES.
5. THE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING.
6. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF FLARED END SECTION UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO ESTABLISHING FINAL GRADE. NOTIFY THE ENGINEER, OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY UNSOUND AND/OR IN NEED OF REPAIR.

STORM SEWER NOTES:

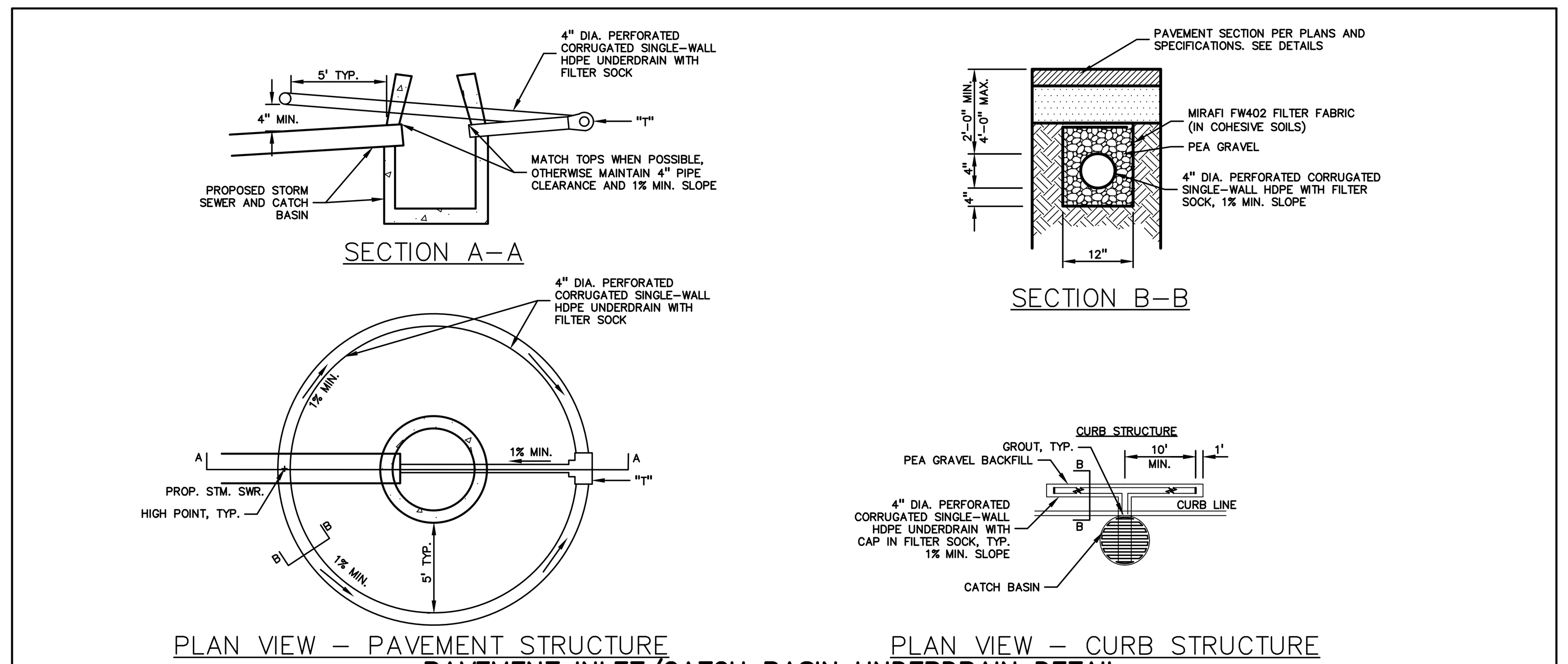
1. ALL STORM SEWER 12" DIAMETER OR LARGER SHALL BE REINFORCED CONCRETE PIPE (RCP C-76) CLASS IV WITH MODIFIED TONGUE AND GROOVE JOINT WITH RUBBER GASKETS UNLESS SPECIFIED OTHERWISE (ASTM C-443) UNLESS OTHERWISE MENTIONED.
2. ALL STORM SEWER LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM SLOPE.
3. ALL STORM SEWER 10" OR LESS AND/OR LEADS SHALL BE SDR 26 UNLESS OTHERWISE MENTIONED.
4. JOINTS FOR P.V.C. PIPE SHALL BE ELASTOMERIC (RUBBER GASKET) AS SPECIFIED IN A.S.T.M. DESIGNATION D-3212.

CONSTRUCTION MATERIAL SUBMITTALS

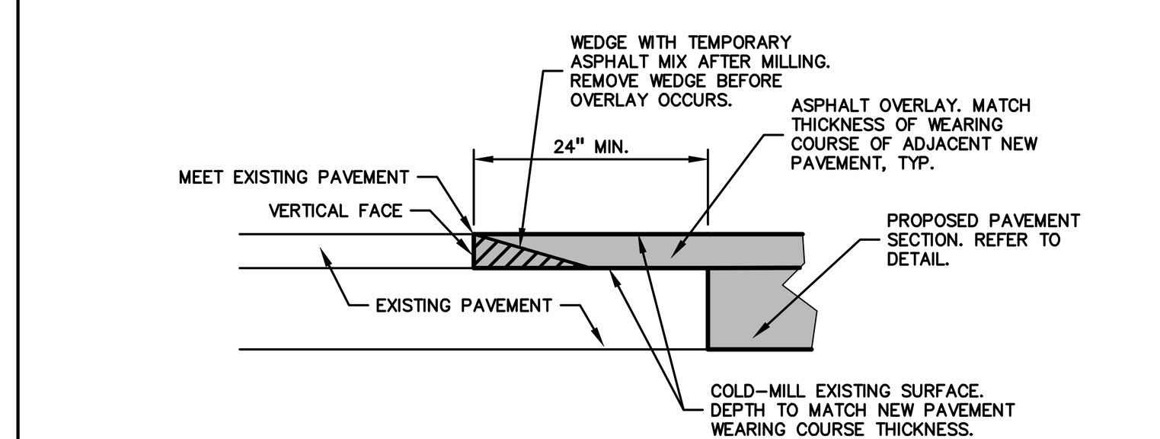
UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIAL SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED.

1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
2. UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
3. RIP RAP MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
4. STORM AND SANITARY SEWER PIPING INCLUDING JOINTS
5. STORM AND SANITARY SEWER STRUCTURES
6. STORM AND SANITARY SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS
7. PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
8. PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
9. PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER:
   - 8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000)
   - 8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862)
   - 8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
10. SITE FENCING AND GATES INCLUDING FOOTINGS
11. SITE RAILINGS INCLUDING FOOTING OR EMBEDMENTS
12. ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:

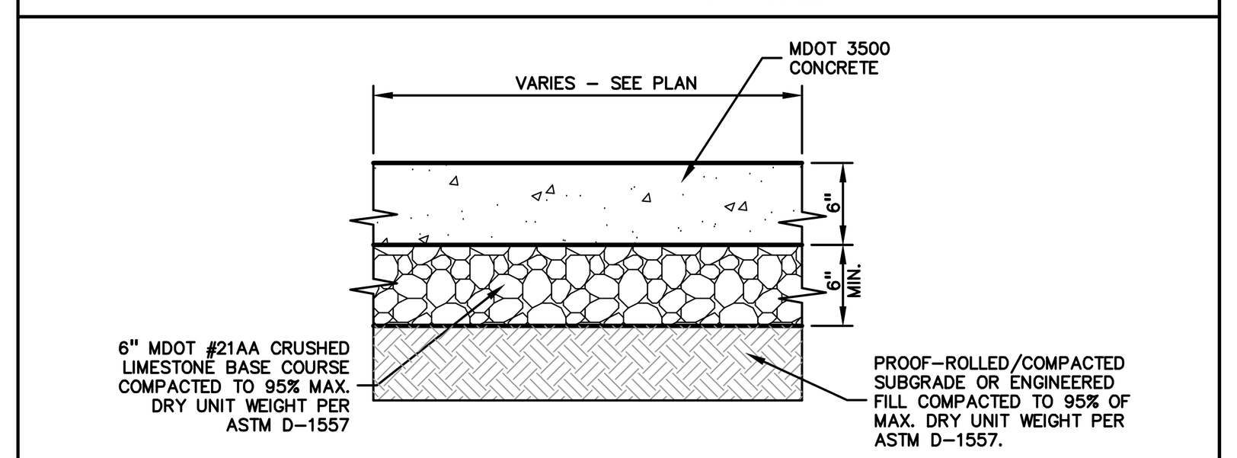
- •• TRENCH DRAIN MATERIAL AND SHOP DRAWING DEPICTING THE LAYOUT OF THE SYSTEM
- •• ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.



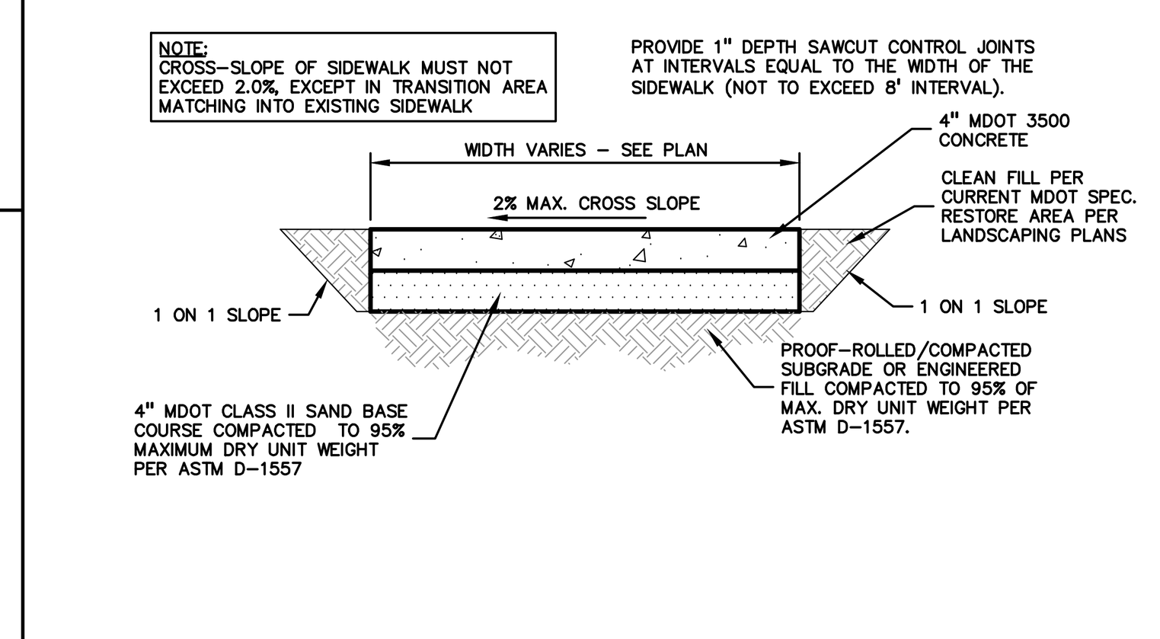
PAVEMENT INLET/CATCH BASIN UNDERDRAIN DETAIL
NOT TO SCALE



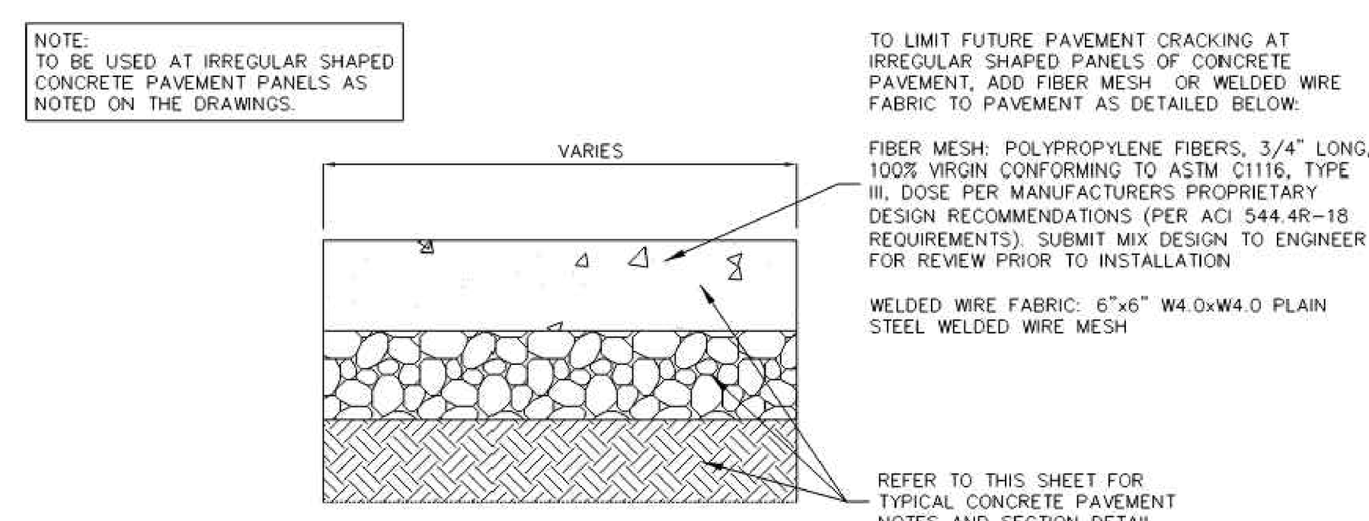
BUTT JOINT DETAIL
NOT TO SCALE



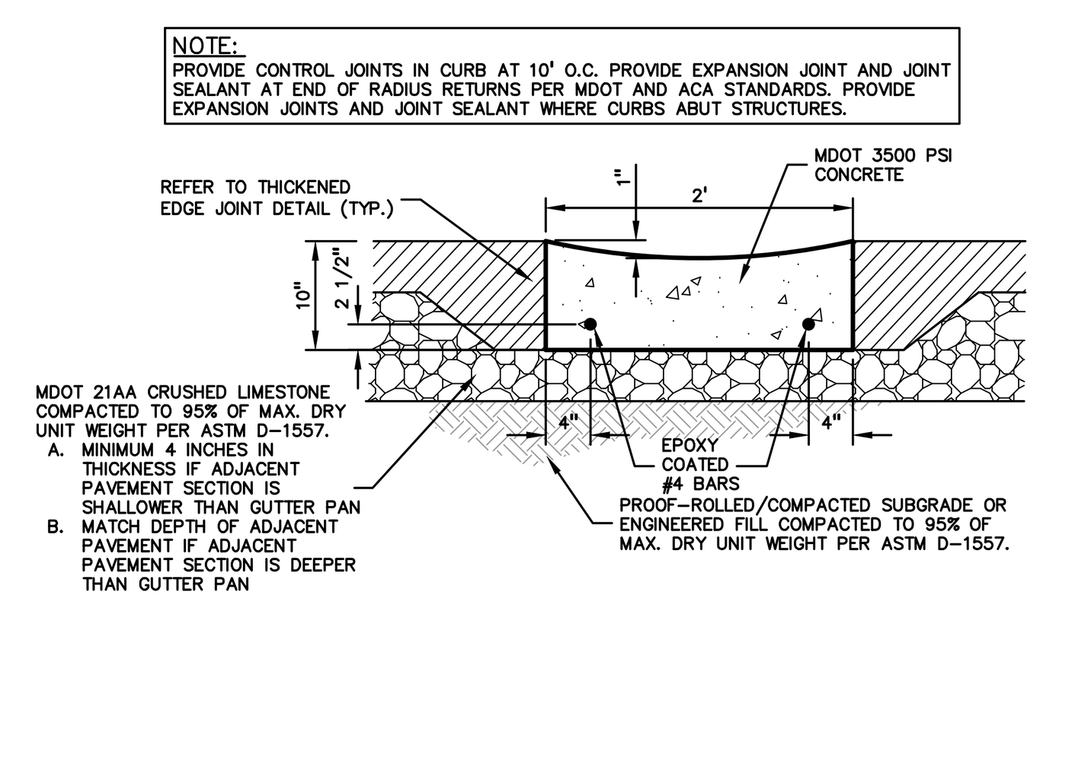
STANDARD DUTY CONCRETE DETAIL
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



10 'IRREGULAR PANEL' CONCRETE DETAIL
SCALE: NONE

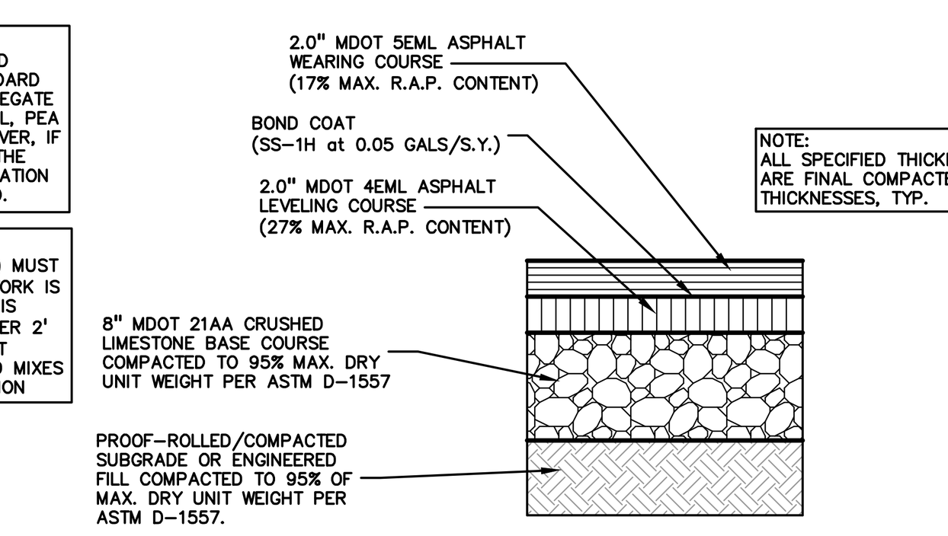


VALLEY GUTTER PAN DETAIL
NOT TO SCALE

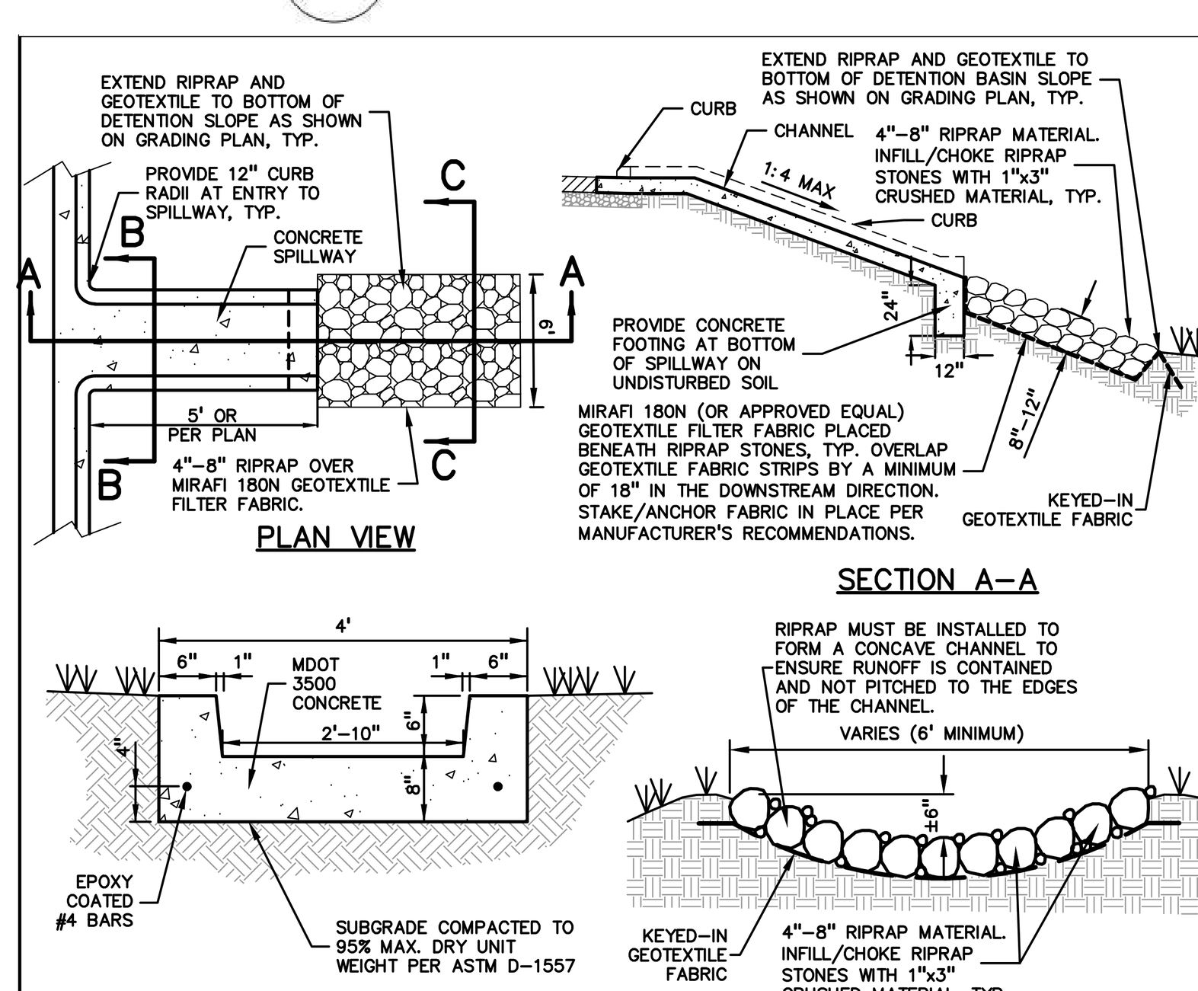
ASPHALT MIX DESIGN CHART					
COMMERCIAL ADT 0–300	COMMERCIAL ADT 301–1000	COMMERCIAL ADT 1001–3400	COMMERCIAL ADT ≥3401	APPLICATION RATE (LB/YD²), MINIMUM – MAXIMUM	COURSE APPLICATION
2EL	2EML	2EMH	2EH	435–550	BASE
3EL	3EML	3EMH	3EH	330–410	BASE AND/OR LEVELING
4EL	4EML	4EMH	4EH	220–275	LEVELING AND/OR TOP
5EL	5EML	5EMH	5EH	165–220	TOP
PG 58–28	PG 64–28	PG 64–28	PG 70–28P		

AGGREGATE BASE NOTE:
THIS PAVEMENT SECTION DESIGN ASSUMES THE USE OF MDOT 21AA CRUSHED LIMESTONE BASE MATERIAL THAT MEETS THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION SECTION 902 FOR AGGREGATES. IF CRUSHED CONCRETE AGGREGATE BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MDOT SPECIFICATION SECTION 902, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED.

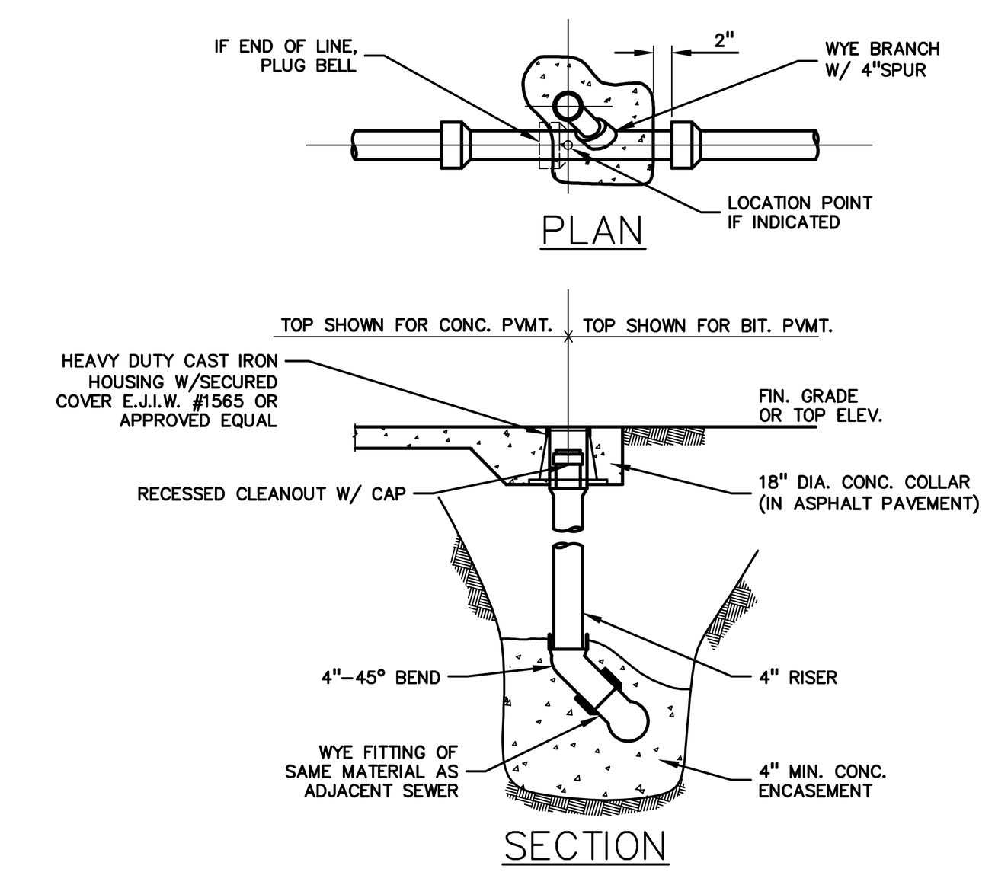
ASPHALT MATERIAL NOTES:
HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MDOT SPECIAL PROVISION 12SP501(E). THE BINDER GRADE FOR THIS WORK IS PG64-28. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MDOT 'TIER 1' OR 'TIER 2' REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION



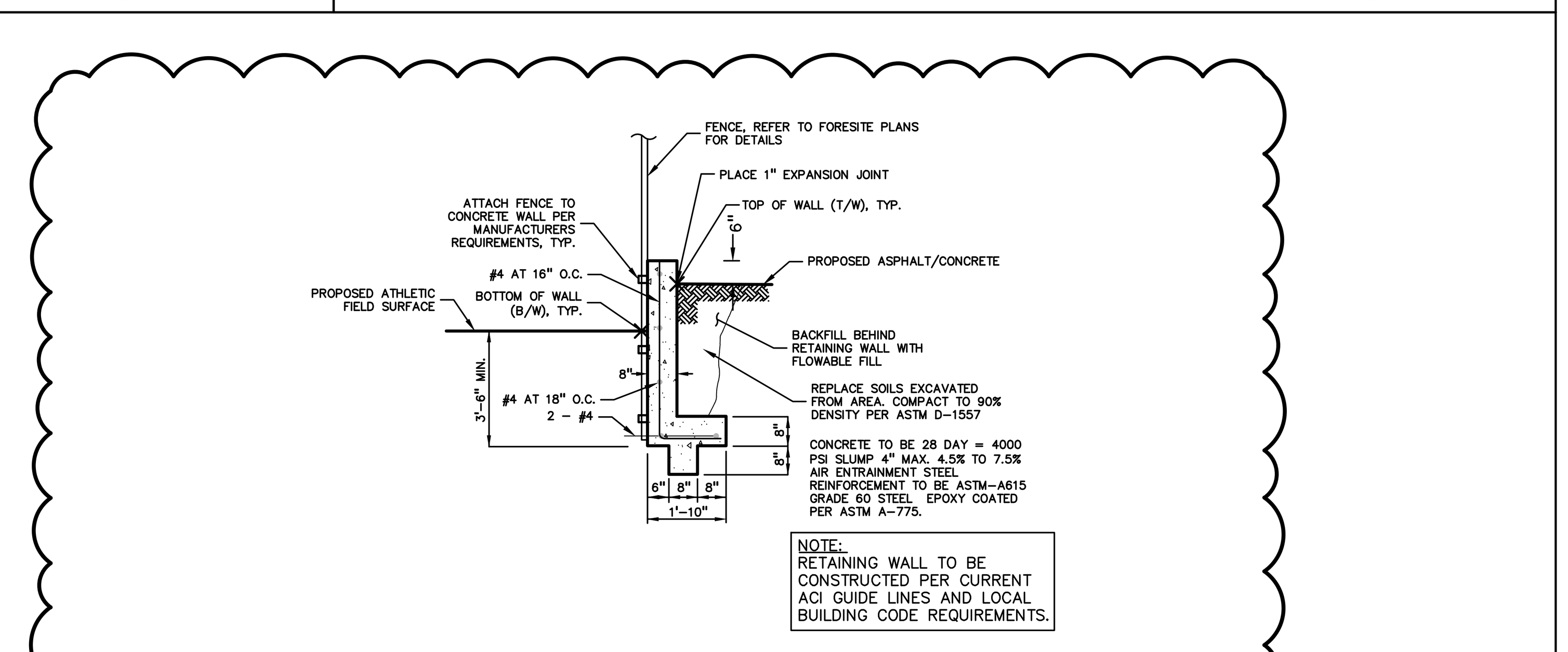
STANDARD DUTY ASPHALT DETAIL
NOT TO SCALE



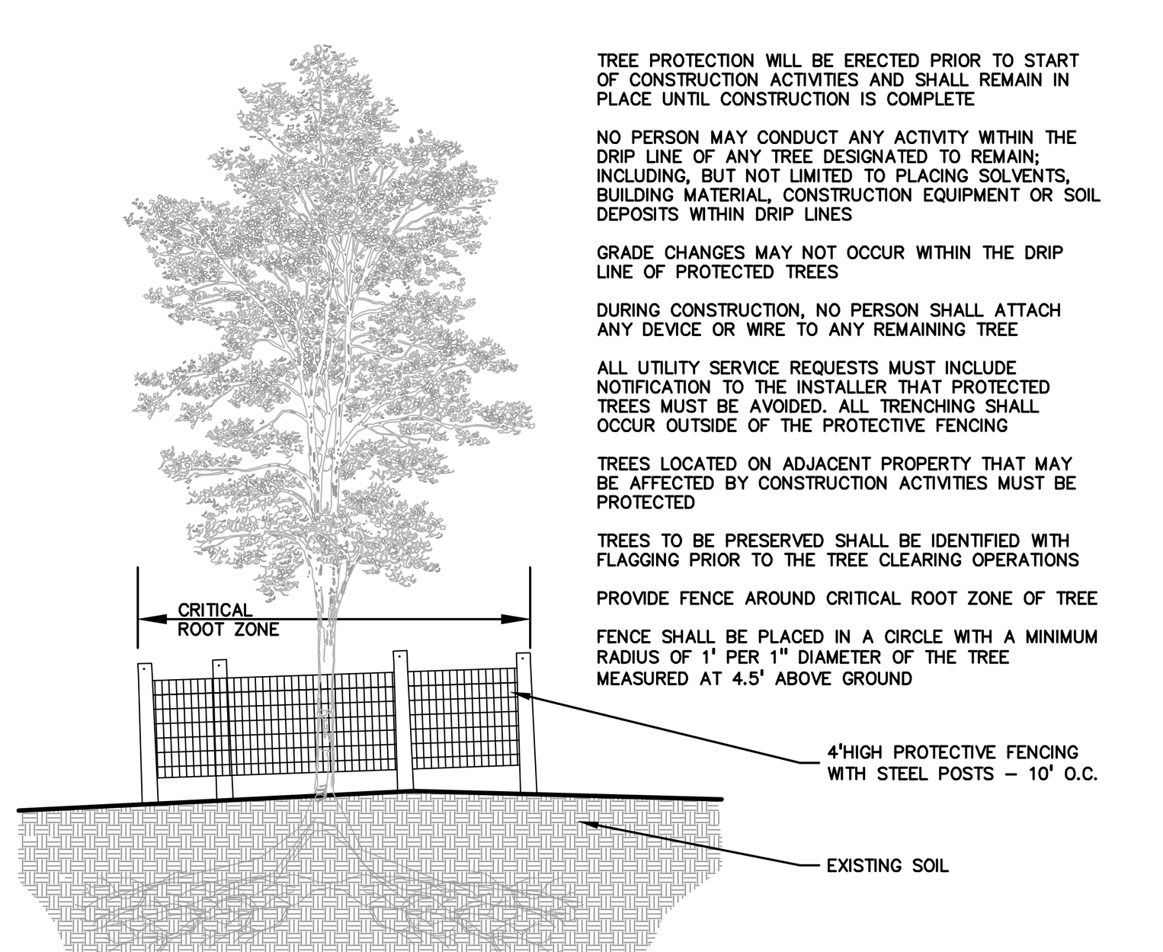
CONCRETE CURB SPILLWAY DETAIL
NOT TO SCALE



SEWER CLEANOUT
NOT TO SCALE



POUR IN PLACE WALL WITH FENCE
NOT TO SCALE



TREE PROTECTION WILL BE ERECTED PRIOR TO START OF CONSTRUCTION ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE

NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN; INCLUDING, BUT NOT LIMITED TO PLACING SOLVENTS, BUILDING MATERIAL, CONSTRUCTION EQUIPMENT OR SOIL DEPOSITS WITHIN DRIP LINES

GRADE CHANGES MAY NOT OCCUR WITHIN THE DRIP LINE OF PROTECTED TREES

DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY REMAINING TREE

ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING

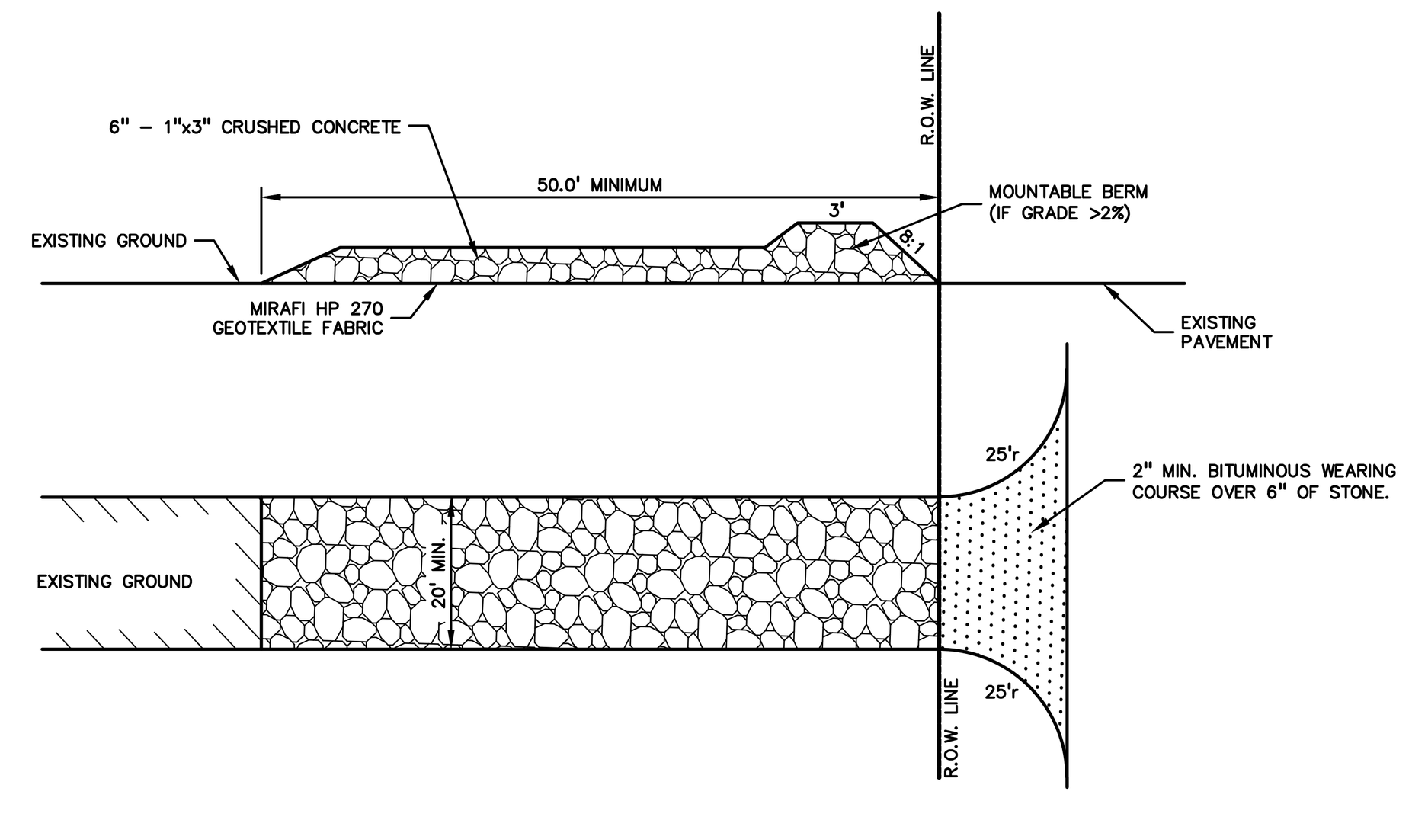
TREES LOCATED ON ADJACENT PROPERTY THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED

TREES TO BE PRESERVED SHALL BE IDENTIFIED WITH FLAGGING PRIOR TO THE TREE CLEARING OPERATIONS

PROVIDE FENCE AROUND CRITICAL ROOT ZONE OF TREE

FENCE SHALL BE PLACED IN A CIRCLE WITH A MINIMUM RADIUS OF 1' PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND

TREE PROTECTION DETAIL
NOT TO SCALE



TEMPORARY CONSTRUCTION ACCESS DETAIL
NOT TO SCALE

ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

CONSULTANT

PEA GROUP
t: 844.813.2949
www.peagroup.com

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
NOTES AND DETAILS

ISSUE DATES

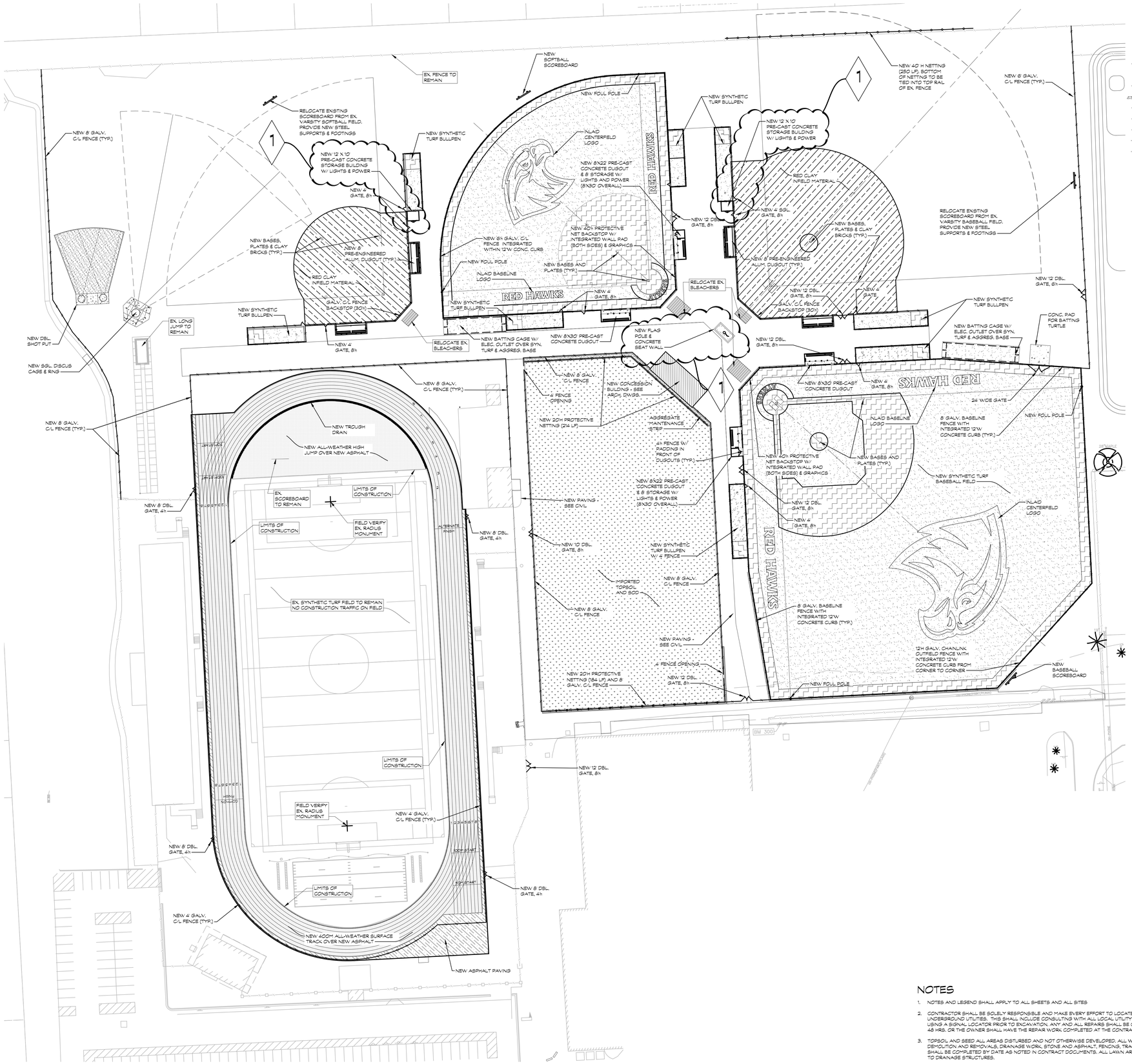
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN JW
CHECKED TD
APPROVED TD

PROJECT NO.
22103D

DRAWING NO.
C-9.0

Drawing File: S:\PROJECTS\2023\23-0301 TROY SCHOOLS 2022 BOND\DWG\3_CONSTRUCTION\TROY ATHLETICS\TROY ATHENS - 2025\(C-9.0)DETAILS-23-0301-AHA 2025.dwg
Jan 14, 2025 – 10:55am



LEGEND

EXISTING	PROPOSED
SPOT ELEVATION	SPOT GRADE
FENCE	TOP OF TRENCH ELEVATION
DRAINAGE STRUCTURE	TOP OF CURB ELEVATION
STORM DRAIN	TOP OF WALL ELEVATION
LIGHT POLE	DRAINAGE SWALE
ELECTRICAL	FENCE - SEE PLANS FOR HT.
WATER	DRAINAGE STRUCTURE
TELEPHONE	12" ATHLETIC STORM PIPE
SANITARY	FLAT DRAIN
GAS	4" PERFORATED DRAINTILE
	6" PERFORATED DRAINTILE
	LIGHT POLE
	ELECTRICAL
	WATER
	TELEPHONE
	IRRIGATION
	LIMITS OF CONSTRUCTION
	ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
	NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
	REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
	DEMOLITION
	TOPSOIL AND SOD
	TOPSOIL AND SEED
	CRUSHED LIMESTONE ATHLETIC MEAL
	CRUSHER DUST
	SYNTHETIC TURF

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

0 20 40 80

SCALE: 1"=40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING CONSULTING | LANDSCAPE ARCHITECTURE
3993 COOLIDGE HWY. BERKLEY MI 48072
248-547-7757

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Site Plan

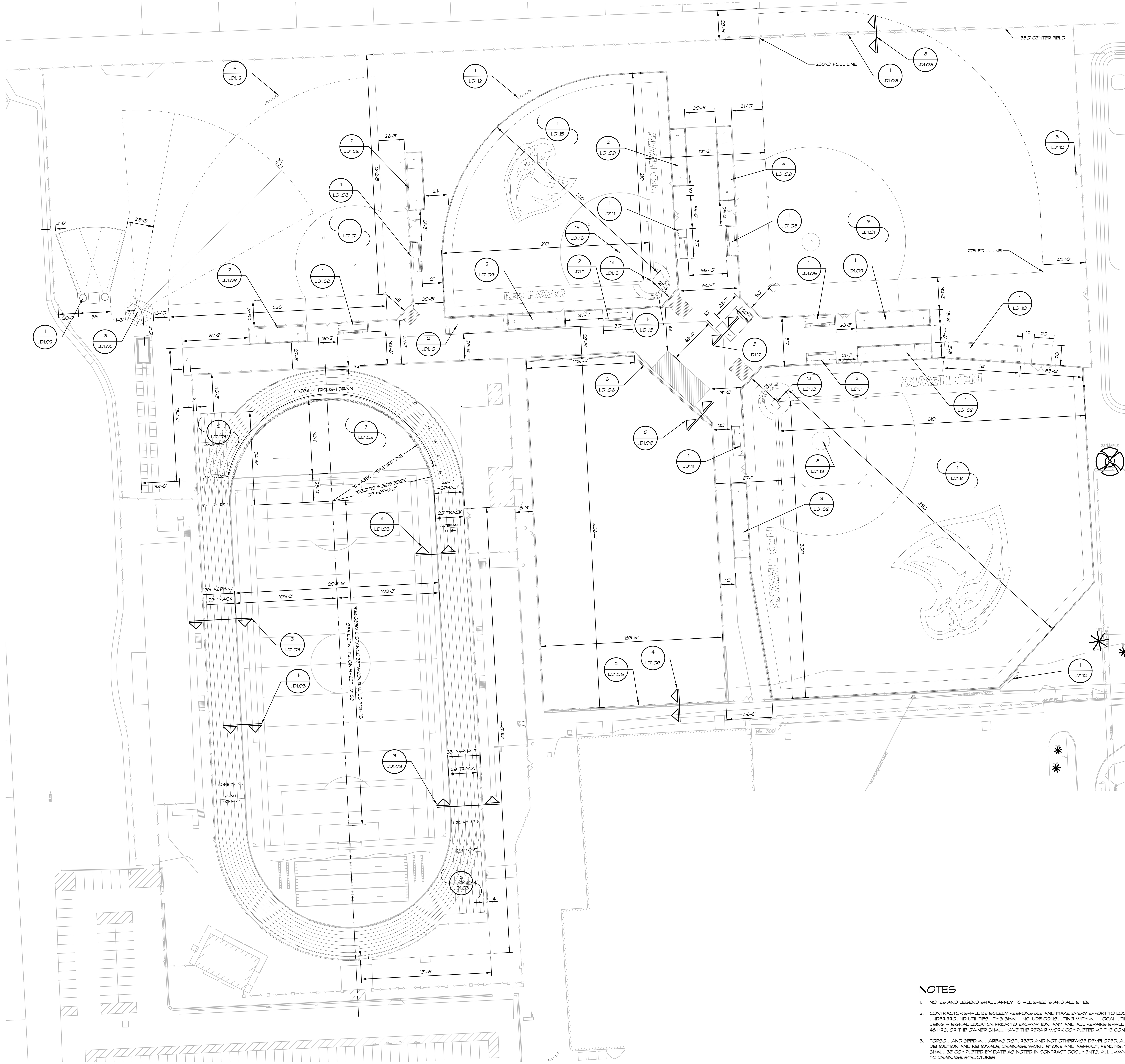
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

DRAWING NO.
L1.00



LEGEND

EXISTING

- SPOT ELEVATION
- FENCE
- DRAINAGE STRUCTURE
- STORM DRAIN
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- SANITARY
- GAS

PROPOSED

- SPOT GRADE
- T/T=XXX.XX TOP OF TRENCH ELEVATION
- T/C=XXX.XX TOP OF CURB ELEVATION
- T/W=XXX.XX TOP OF WALL ELEVATION
- DRAINAGE SWALE
- FENCE - SEE PLANS FOR HT.
- DRAINAGE STRUCTURE
- 12" ATHLETIC STORM PIPE
- FLAT DRAIN
- 4" PERFORATED DRAINTILE
- 6" PERFORATED DRAINTILE
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- IRRIGATION
- LIMITS OF CONSTRUCTION
- ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
- NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
- REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
- DEMOLITION
- TOPSOIL AND SOD
- TOPSOIL AND SEED
- CRUSHED LIMESTONE ATHLETIC MEAL
- CRUSHER DUST
- SYNTHETIC TURF

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

0 20 40 80
SCALE: 1"=40'
NORTH

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING \ SITE PLANNING
CONSULTING \ LANDSCAPE ARCHITECTURE
3269 COOLIDGE HWY BERKLEY MI 48072
2485477757

PROJECT TITLE

Athens High School
Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Dimension Plan

ISSUE DATES

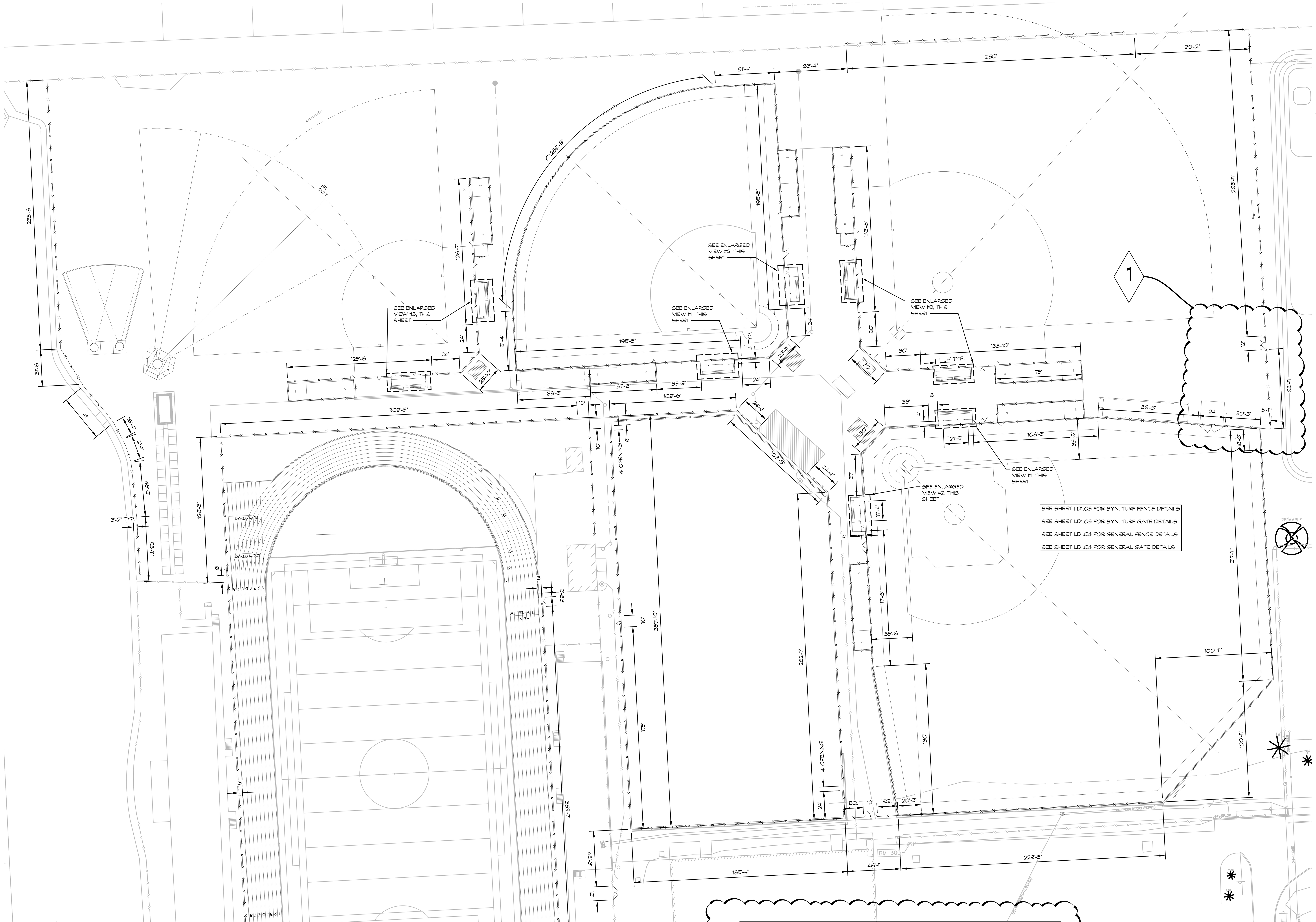
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

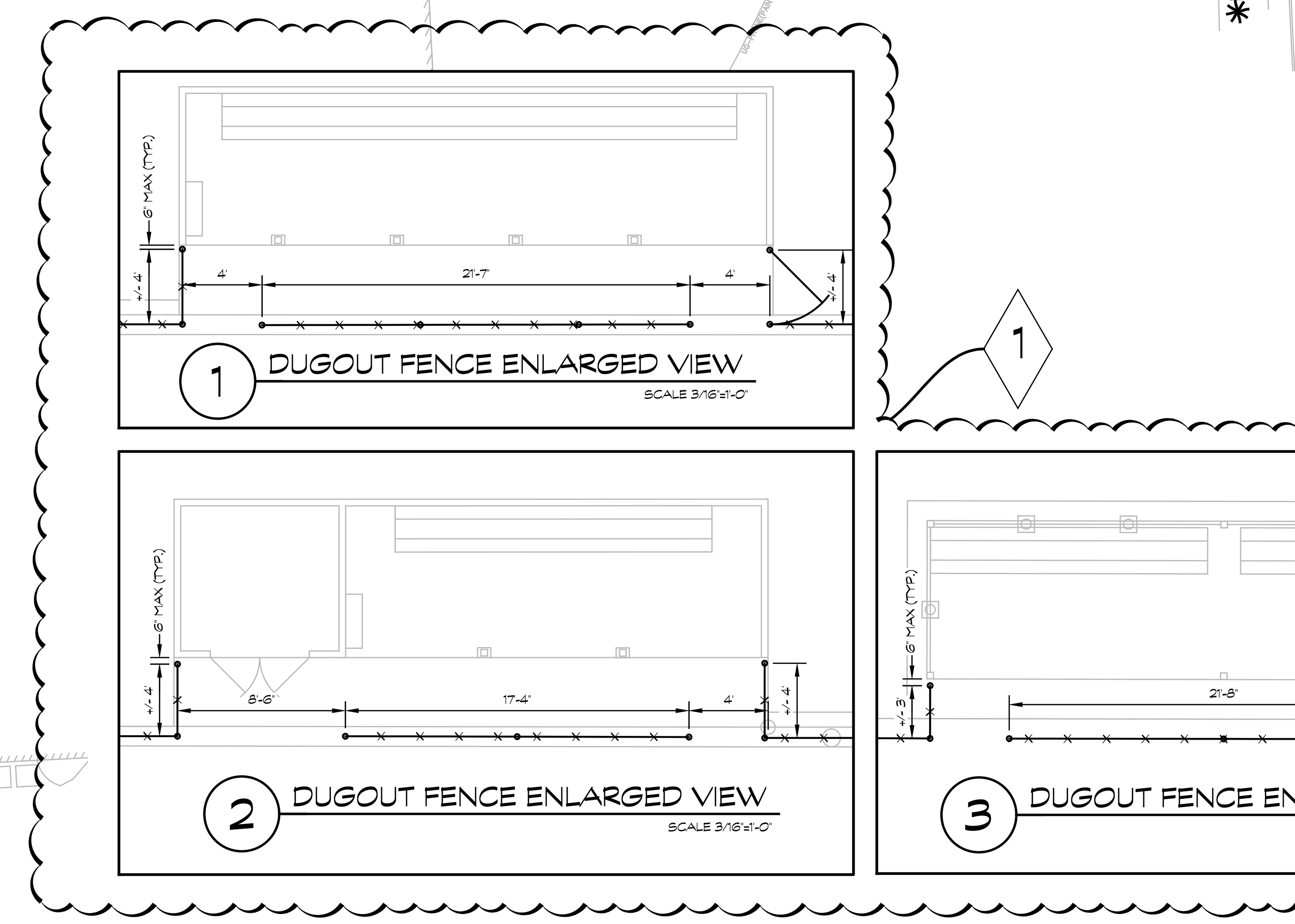
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

1

DRAWING NO.
L1.01





LEGEND

EXISTING

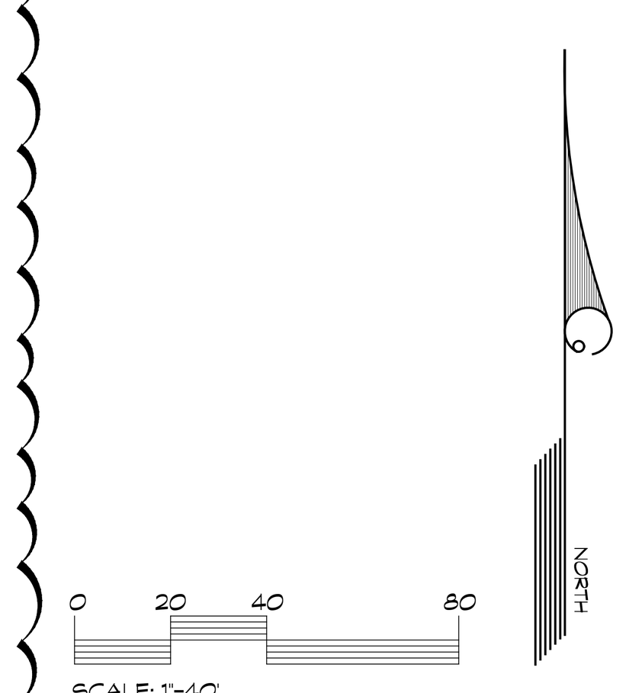
- SPOT ELEVATION
- FENCE
- DRAINAGE STRUCTURE
- STORM DRAIN
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- SANITARY
- GAS

PROPOSED

- 100.00 SPOT GRADE
- T/T=XXX.XX TOP OF TRENCH ELEVATION
- T/C=XXX.XX TOP OF CURB ELEVATION
- T/W=XXX.XX TOP OF WALL ELEVATION
- DRAINAGE SWALE
- FENCE - SEE PLANS FOR HT.
- DRAINAGE STRUCTURE
- 12" ATHLETIC STORM PIPE
- FLAT DRAIN
- 4" PERFORATED DRAINTILE
- 6" PERFORATED DRAINTILE
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- IRRIGATION
- LIMITS OF CONSTRUCTION
- ▨ ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ▨ ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ▨ ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
- ▨ NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
- ▨ REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
- ■ DEMOLITION
- ▨ TOPSOIL AND SOD
- □ TOPSOIL AND SEED
- ▨ CRUSHED LIMESTONE ATHLETIC MEAL
- ▨ CRUSHER DUST
- ▨ SYNTHETIC TURF

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.



ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING \ SITE PLANNING
CONSULTING \ LANDSCAPE ARCHITECTURE
3269 COOLIDGE HWY BERKLEY MI 48072
2485477757

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

Athletics Fence Plan

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

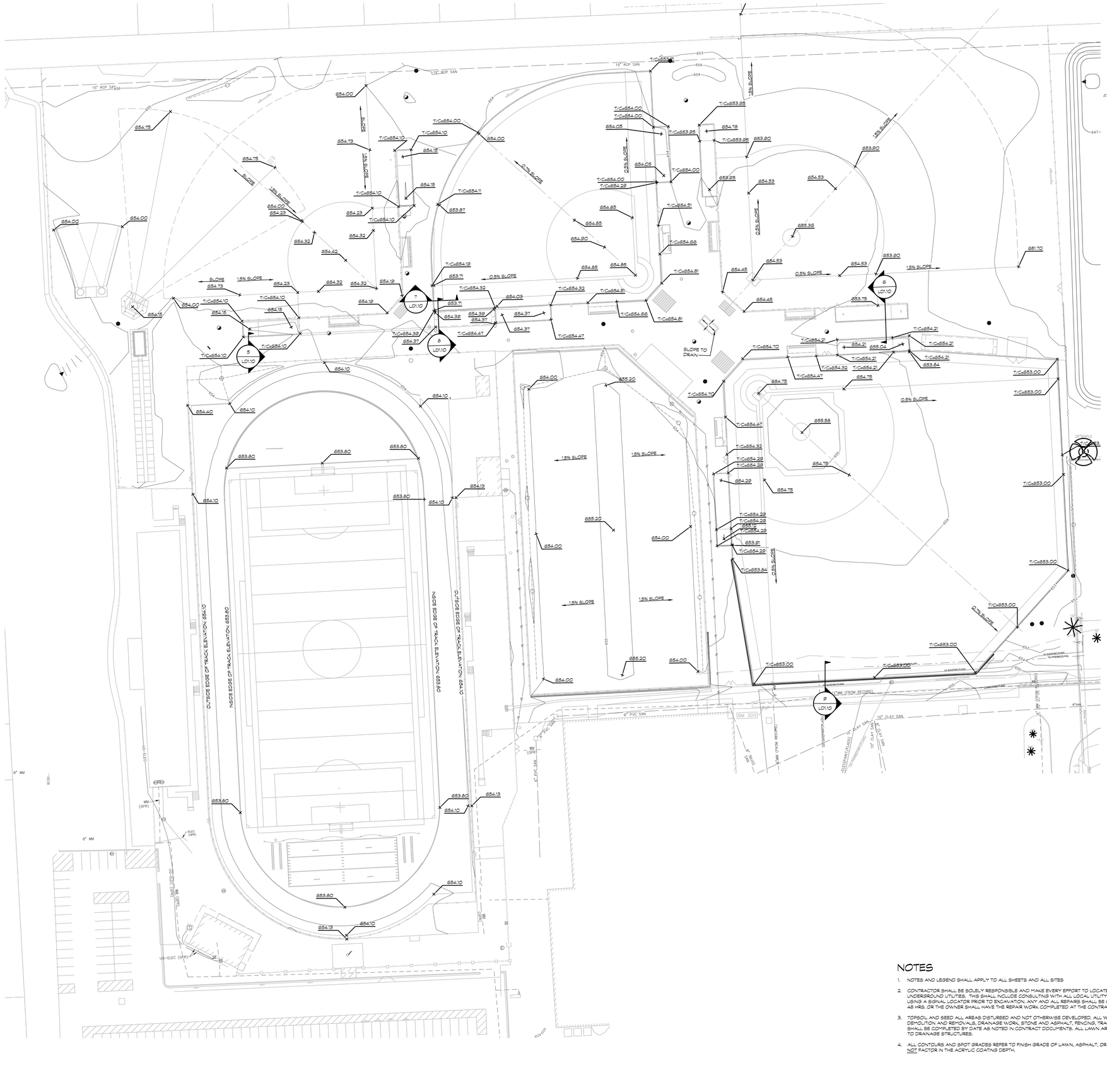
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.

22103D

DRAWING NO.

L1.02



LEGEND

EXISTING

- SPOT ELEVATION
- FENCE
- DRAINAGE STRUCTURE
- STORM DRAIN
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- SANITARY
- GAS

PROPOSED

- SPOT GRADE
- TOP OF TRENCH ELEVATION
- TOP OF CURB ELEVATION
- TOP OF WALL ELEVATION
- DRAINAGE SWALE
- FENCE - SEE PLANS FOR HT.
- DRAINAGE STRUCTURE
- 12" ATHLETIC STORM PIPE
- FLAT DRAIN
- 4" PERFORATED DRAINTILE
- 6" PERFORATED DRAINTILE
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- IRRIGATION
- LIMITS OF CONSTRUCTION
- ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
- NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
- REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
- DEMOLITION
- TOPSOIL AND SOD
- TOPSOIL AND SEED
- CRUSHED LIMESTONE ATHLETIC MEAL
- CRUSHER DUST
- SYNTHETIC TURF

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED; ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

0 20 40 80

SCALE: 1"=40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4501 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3003 COOLIDGE HWY BERKLEY MI 48072
248.547.7757

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Grading Plan

ISSUE DATES

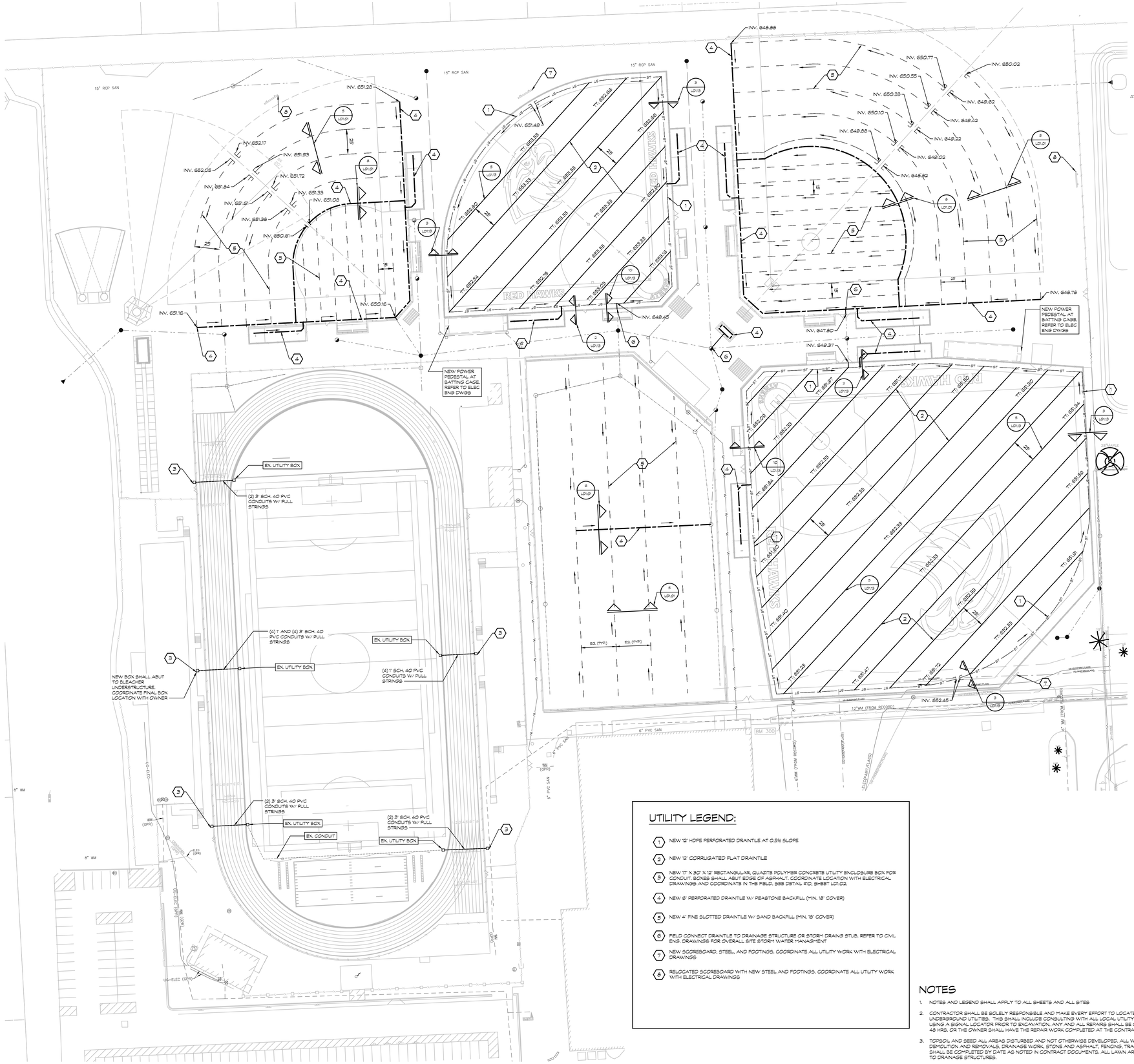
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

DRAWING NO.
L1.03

1



LEGEND

EXISTING	PROPOSED
SPOT ELEVATION	SPOT GRADE
FENCE	TOP OF TRENCH ELEVATION
DRAINAGE STRUCTURE	TOP OF CURB ELEVATION
STORM DRAIN	TOP OF WALL ELEVATION
LIGHT POLE	DRAINAGE SWALE
ELECTRICAL	FENCE - SEE PLANS FOR HT.
WATER	DRAINAGE STRUCTURE
TELEPHONE	12" ATHLETIC STORM PIPE
SANITARY	FLAT DRAIN
GAS	4" PERFORATED DRAINTILE
	6" PERFORATED DRAINTILE
	LIGHT POLE
	ELECTRICAL
	WATER
	TELEPHONE
	IRRIGATION
	LIMITS OF CONSTRUCTION
	ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
	NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
	REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
	DEMOLITION
	TOPSOIL AND SOD
	TOPSOIL AND SEED
	CRUSHED LIMESTONE ATHLETIC MEAL
	CRUSHER DUST
	SYNTHETIC TURF

UTILITY LEGEND:

1. NEW 12" HDPE PERFORATED DRAINTILE AT 0.5% SLOPE
2. NEW 12" CORRUGATED FLAT DRAINTILE
3. NEW 17" X 30" X 12" RECTANGULAR, QUAZITE POLYMER CONCRETE UTILITY ENCLOSURE BOX FOR CONDUIT. BOXES SHALL ABUT EDGE OF ASPHALT. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS AND COORDINATE IN THE FIELD. SEE DETAIL #10, SHEET LD1.02.
4. NEW 6" PERFORATED DRAINTILE W/ PEASTONE BACKFILL (MIN. 18" COVER)
5. NEW 4" FINE SLOTTED DRAINTILE W/ SAND BACKFILL (MIN. 18" COVER)
6. FIELD CONNECT DRAINTILE TO DRAINAGE STRUCTURE OR STORM DRAINS STUB. REFER TO CIVIL ENG. DRAWINGS FOR OVERALL SITE STORM WATER MANAGMENT
7. NEW SCOREBOARD, STEEL, AND FOOTINGS. COORDINATE ALL UTILITY WORK WITH ELECTRICAL DRAWINGS
8. RELOCATED SCOREBOARD WITH NEW STEEL AND FOOTINGS. COORDINATE ALL UTILITY WORK WITH ELECTRICAL DRAWINGS

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO ENCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

0 20 40 80

SCALE: 1"=40'

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS - MICHIGAN - 48302
PH - 248.338.4561 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3003 COOLIDGE HWY BERKLEY MI 48072
248.547.7757

PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Drainage Plan

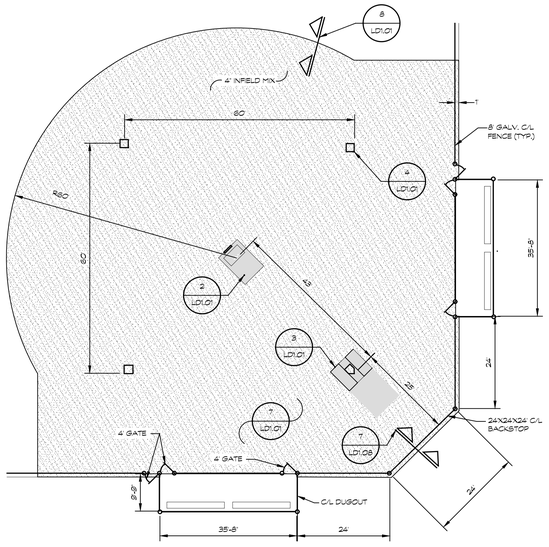
ISSUE DATES

01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JB
CHECKED	HD
APPROVED	MDS

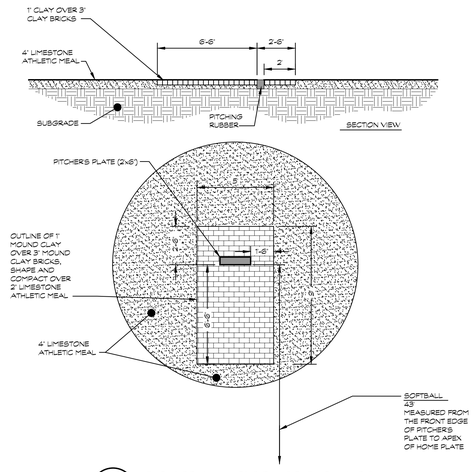
PROJECT NO.
22103D

DRAWING NO.
L1.04

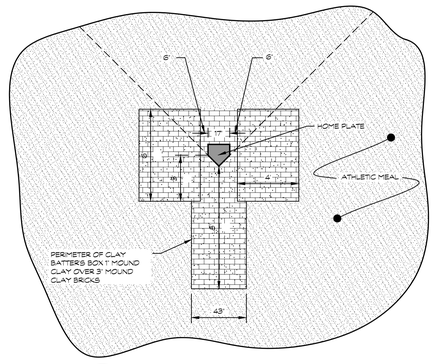
1



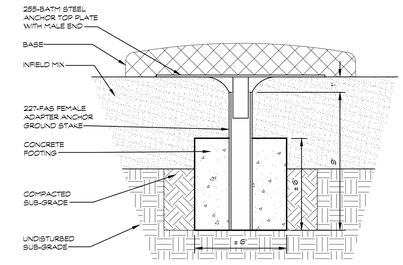
1 SOFTBALL FIELD LAYOUT
SCALE 1"x16'-0"



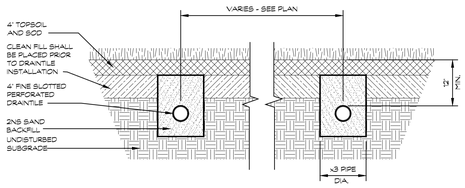
2 SOFTBALL PITCHER'S PLATE
SCALE 1"/4'x1'-0"



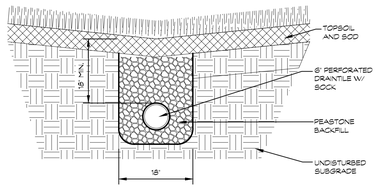
3 SOFTBALL BATTER'S BOX
SCALE 1"/4'x1'-0"



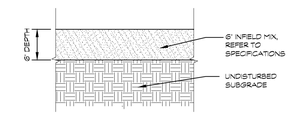
4 BASE PLATE & ANCHOR CONNECTION
SCALE 3"x1'-0"



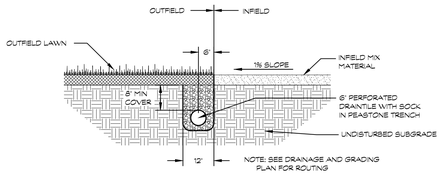
5 4" DRAINTILE SECTION
SCALE 3/4"x1'-0"



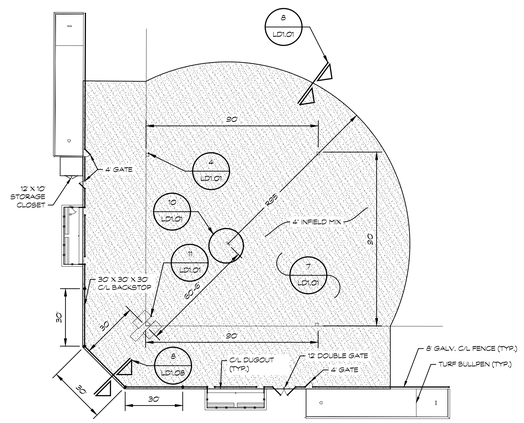
6 6" DRAINTILE SECTION
N.T.S.



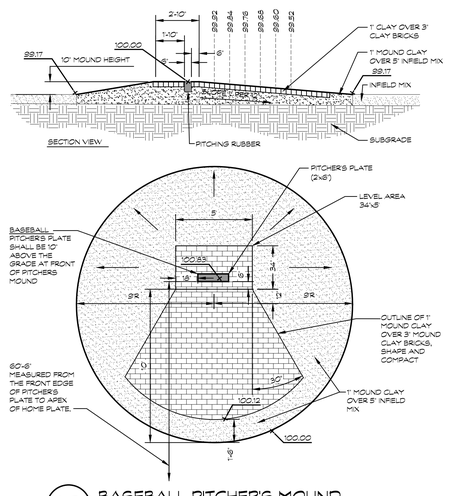
7 INFIELD MIX SECTION
SCALE 1"/2"x1'-0"



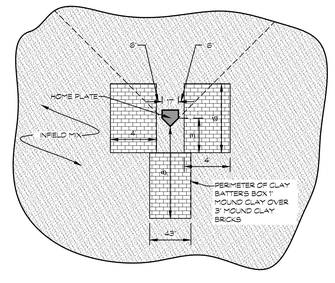
8 INFIELD/OUTFIELD DRAIN SECTION
SCALE 1"/2"x1'-0"



9 BASEBALL INFIELD LAYOUT
SCALE 1/32"x1'-0"



10 BASEBALL PITCHER'S MOUND
SCALE 1"/4'x1'-0"



11 BASEBALL BATTER'S BOX
SCALE 3/16"x1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
2993 COOLIDGE HWY BERKLEY MI 48072
248-547-7767

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Site Details

ISSUE DATES

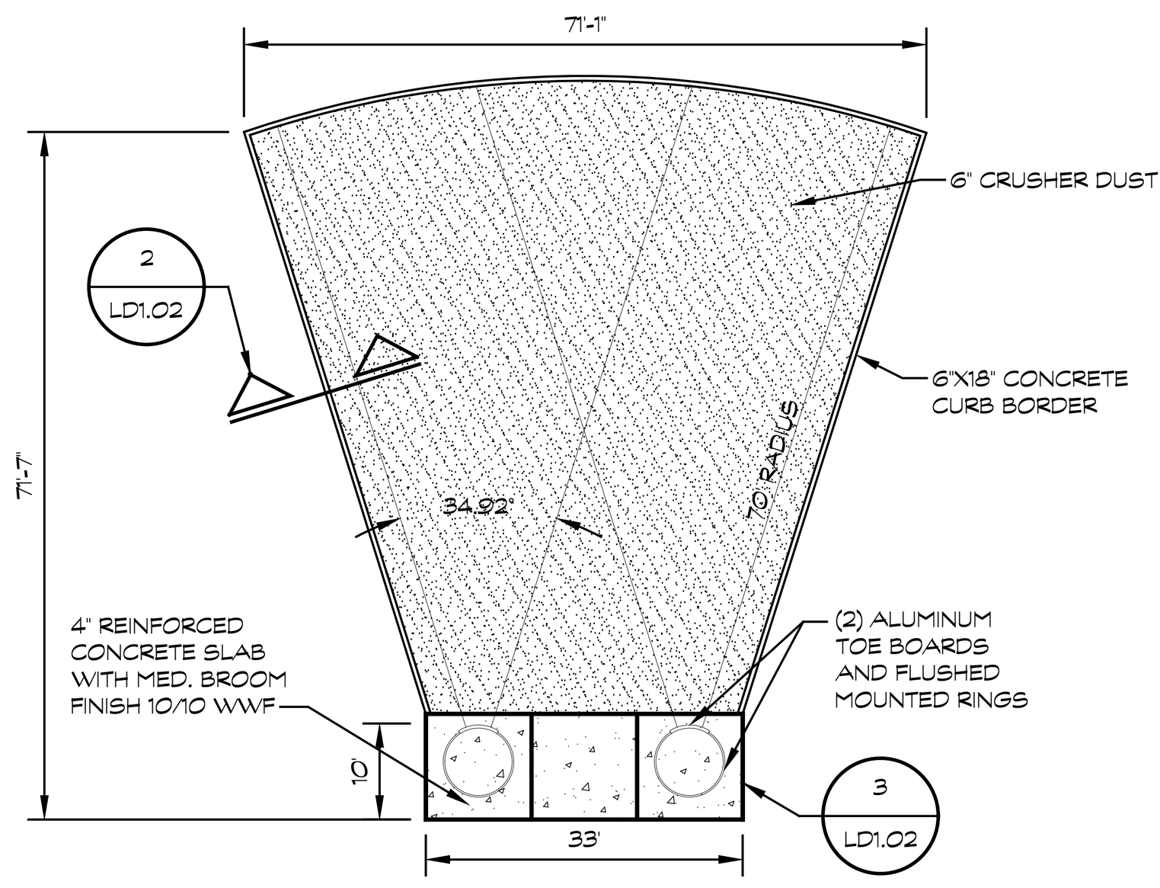
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

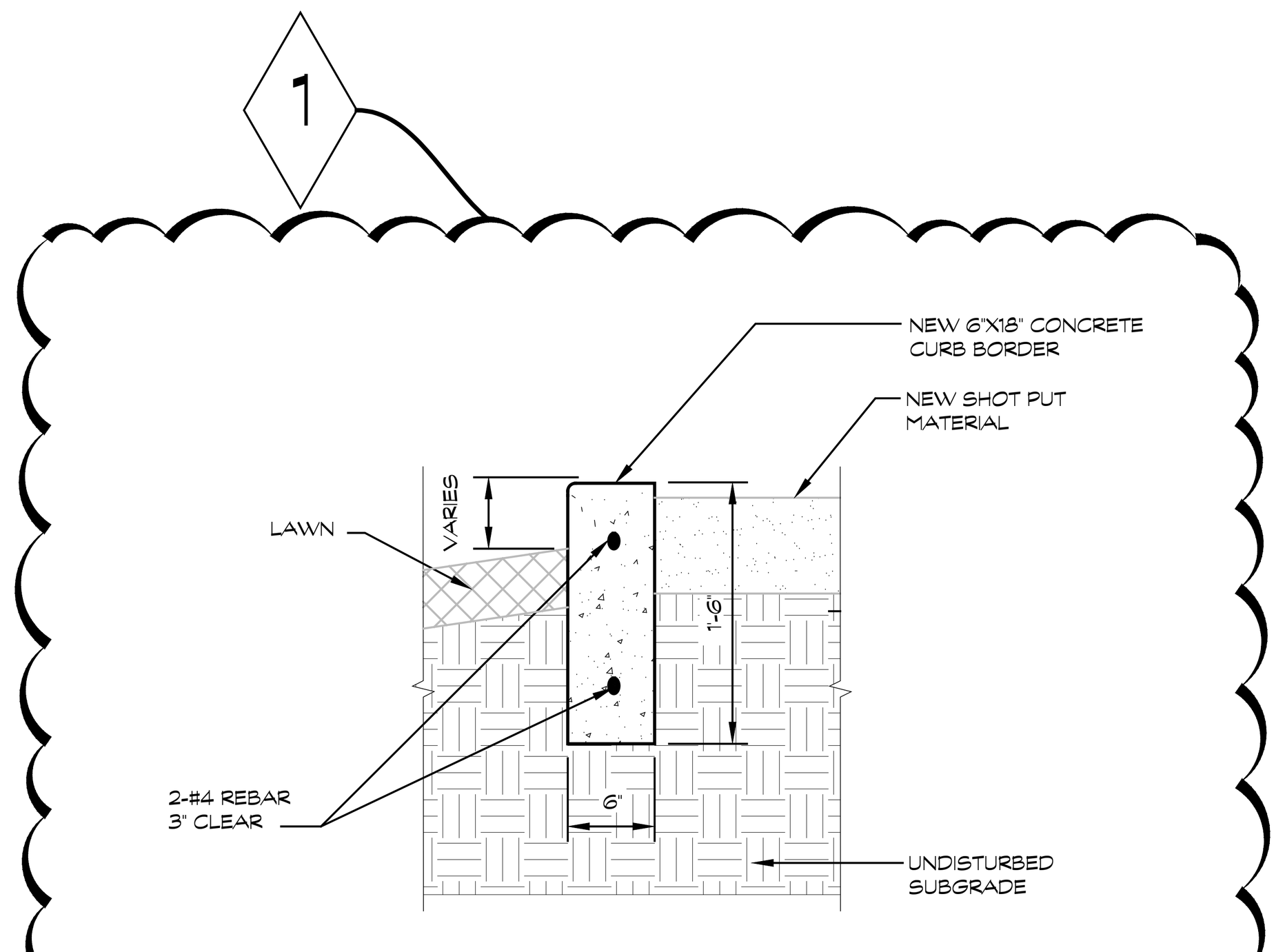
PROJECT NO.
22103D

DRAWING NO.
LD1.01

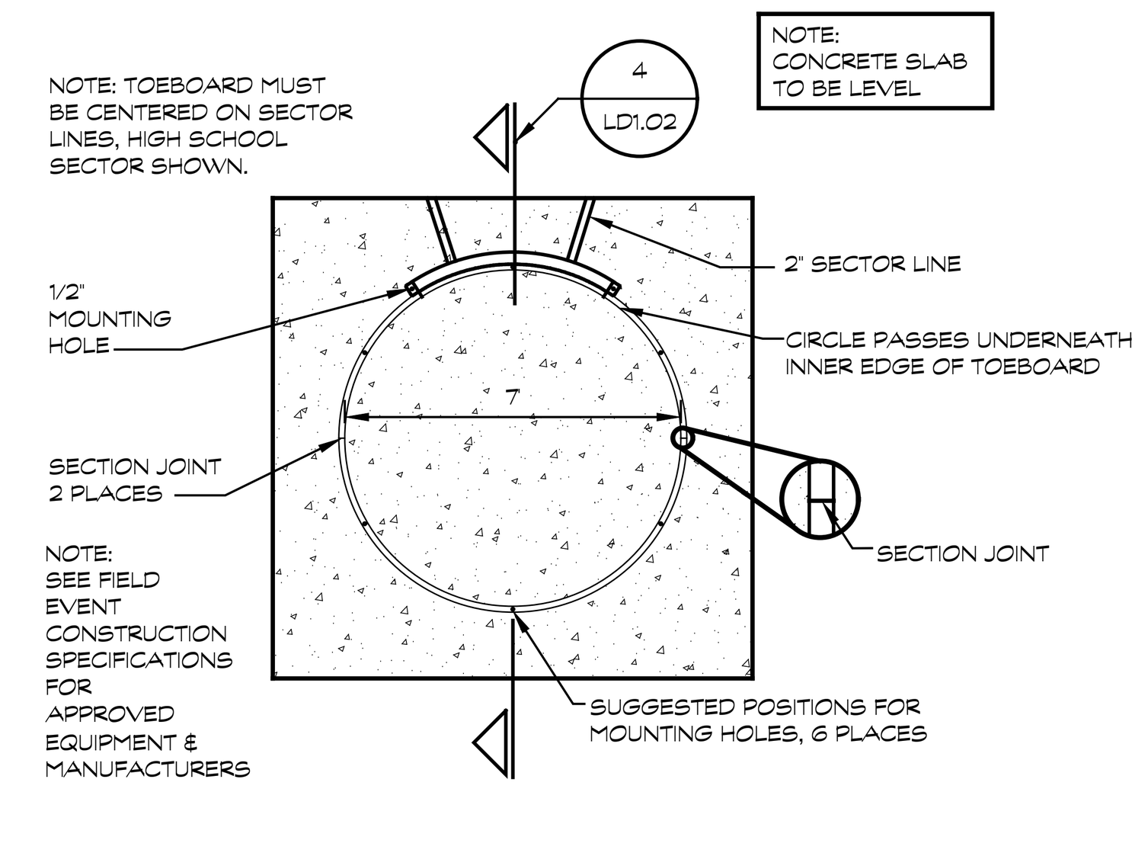
1



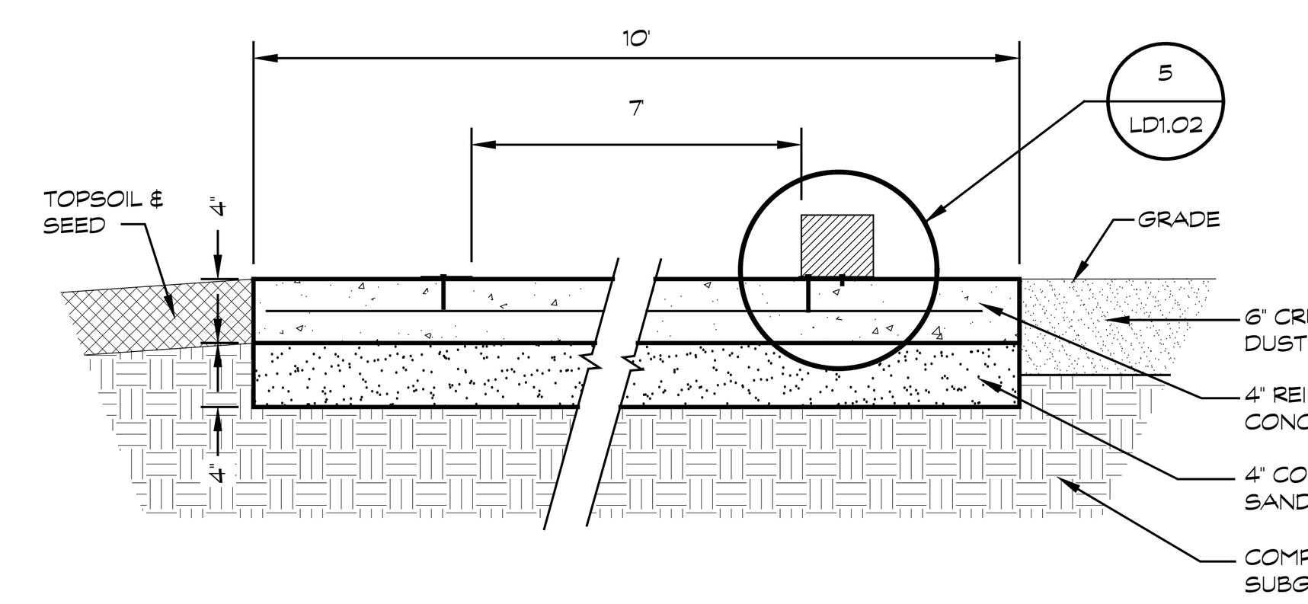
1 SHOT PUT PAD
SCALE 1"=20'-0"



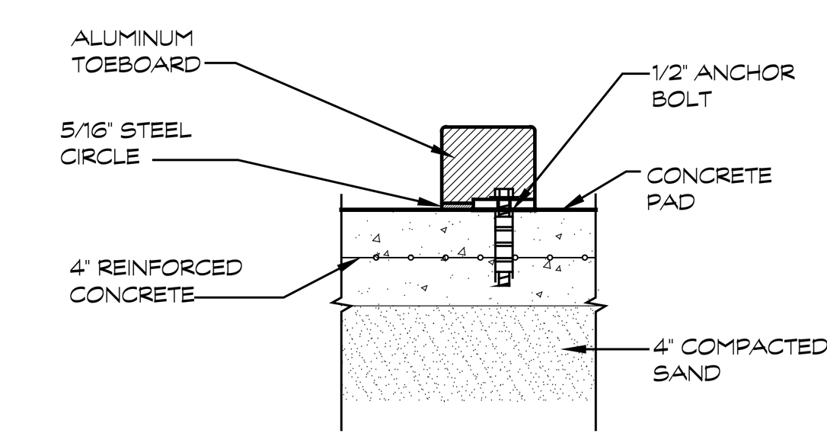
2 CONCRETE CURB DETAIL
SCALE 1"=1'-0"



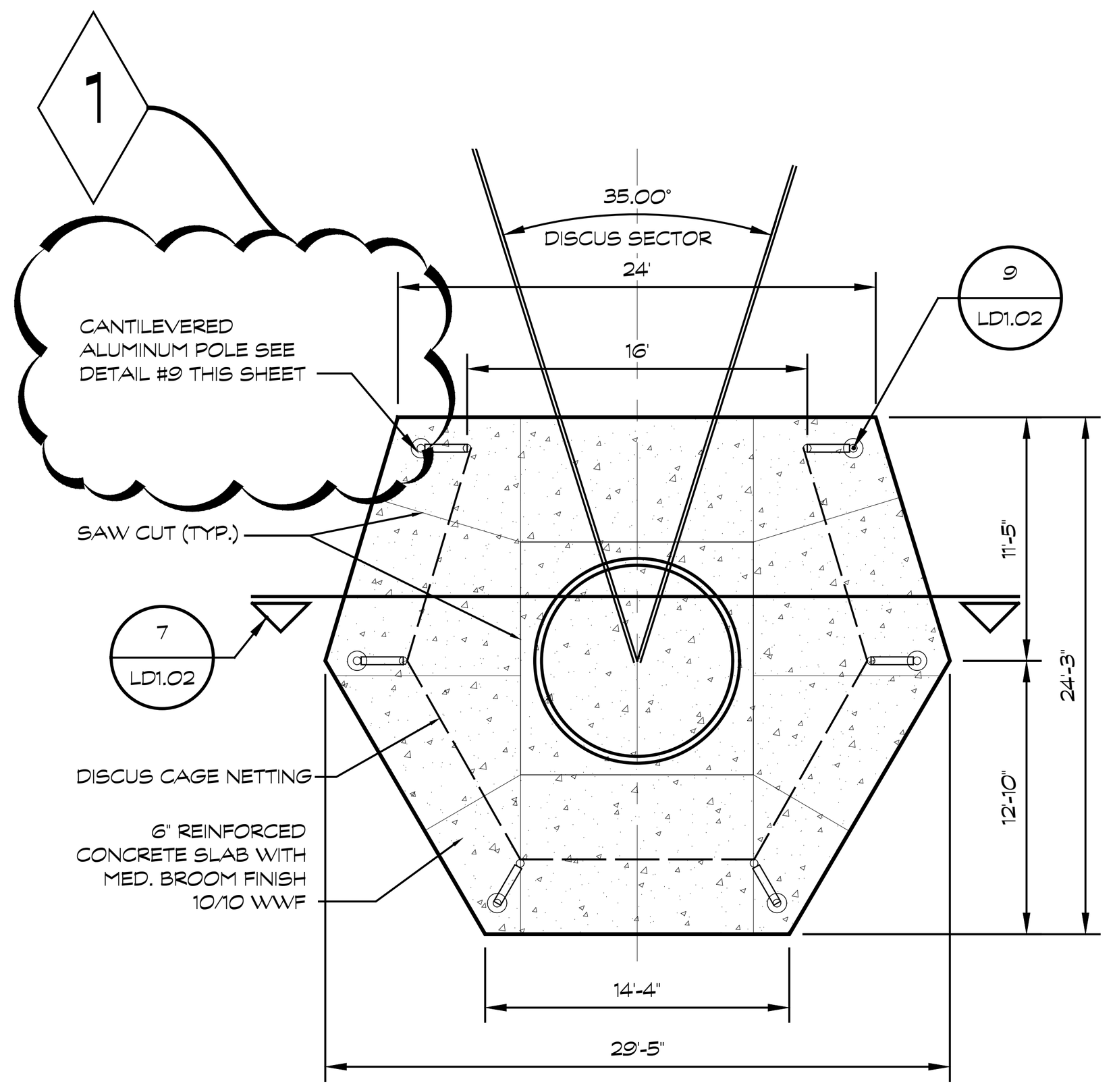
3 TOEBOARD DETAIL
SCALE 1/4"=1'-0"



4 SHOT-PUT RING SECTION
SCALE 1"=1'-0"

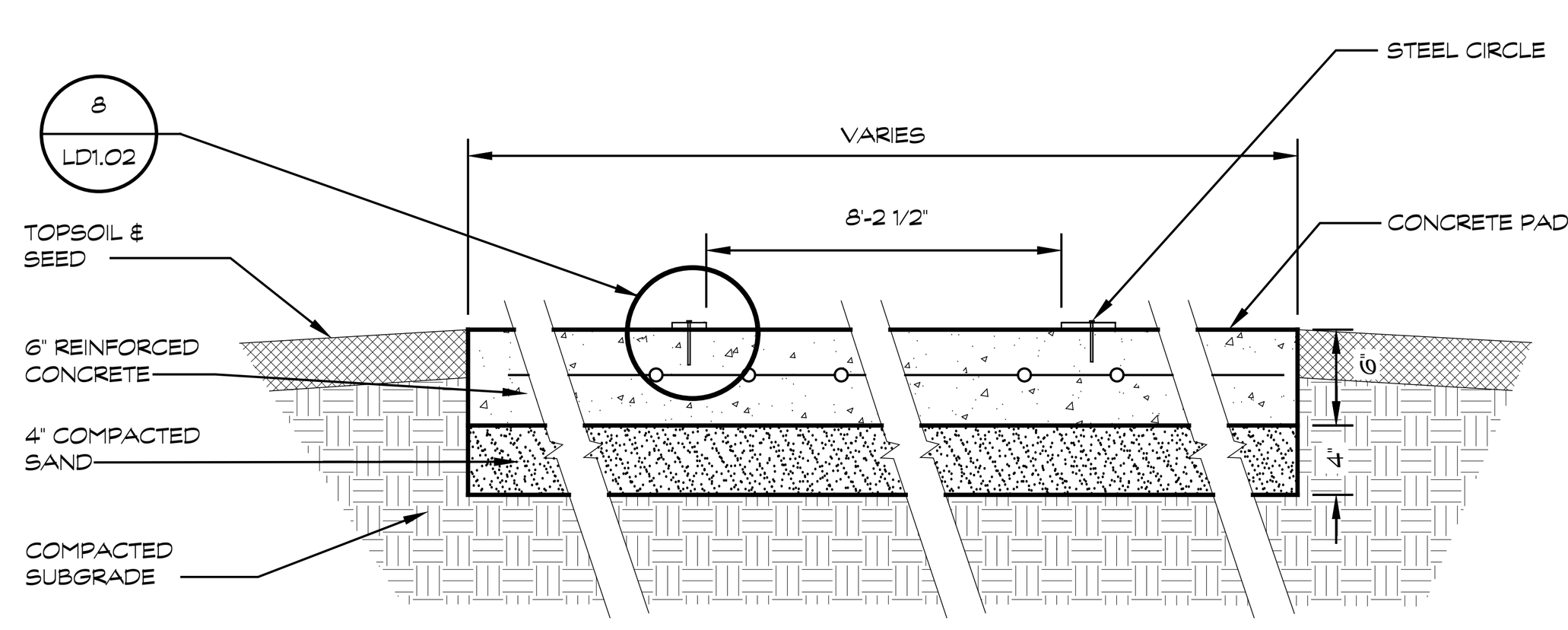


5 TOEBOARD DETAIL
SCALE 1-1/2"=1'-0"

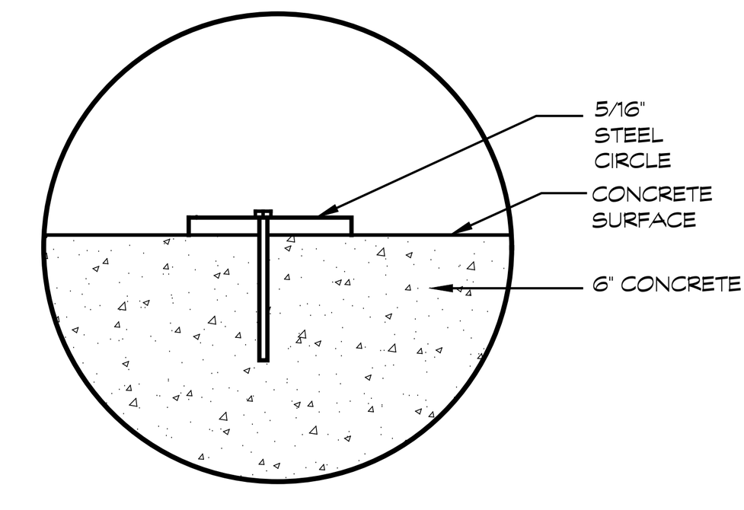


NOTE: * SEE FIELD EVENT CONSTRUCTION SPECIFICATIONS FOR APPROVED EQUIPMENT & MANUFACTURERS

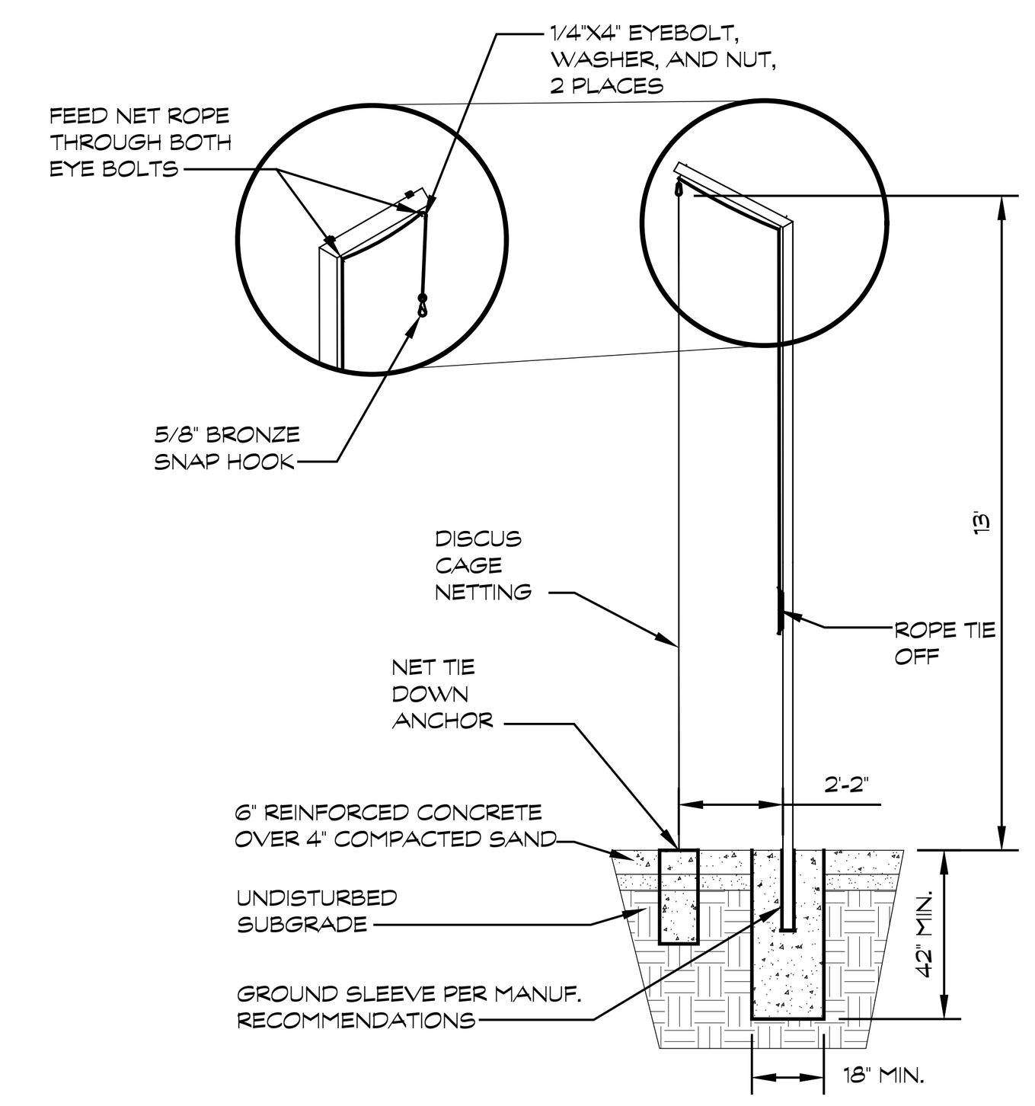
6 DISCUS DETAIL
SCALE 1/8"=1'-0"



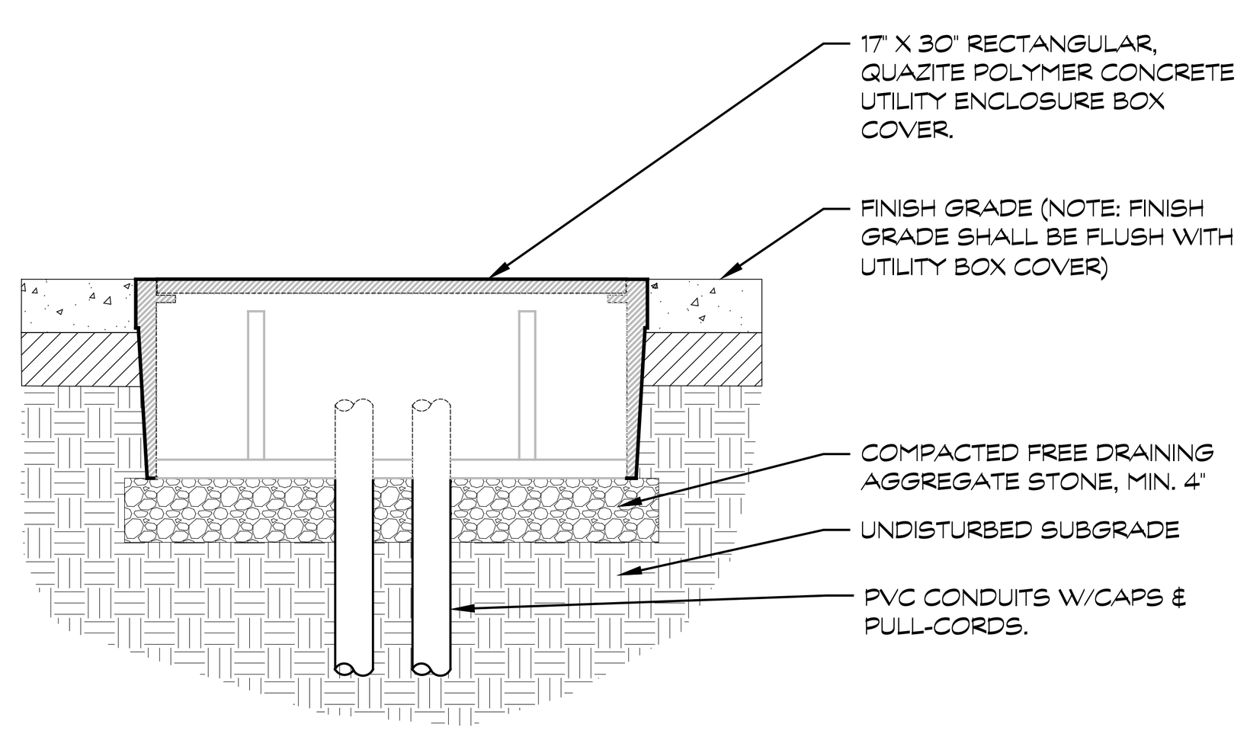
7 DISCUS PAD SECTION
SCALE 1"=1'-0"



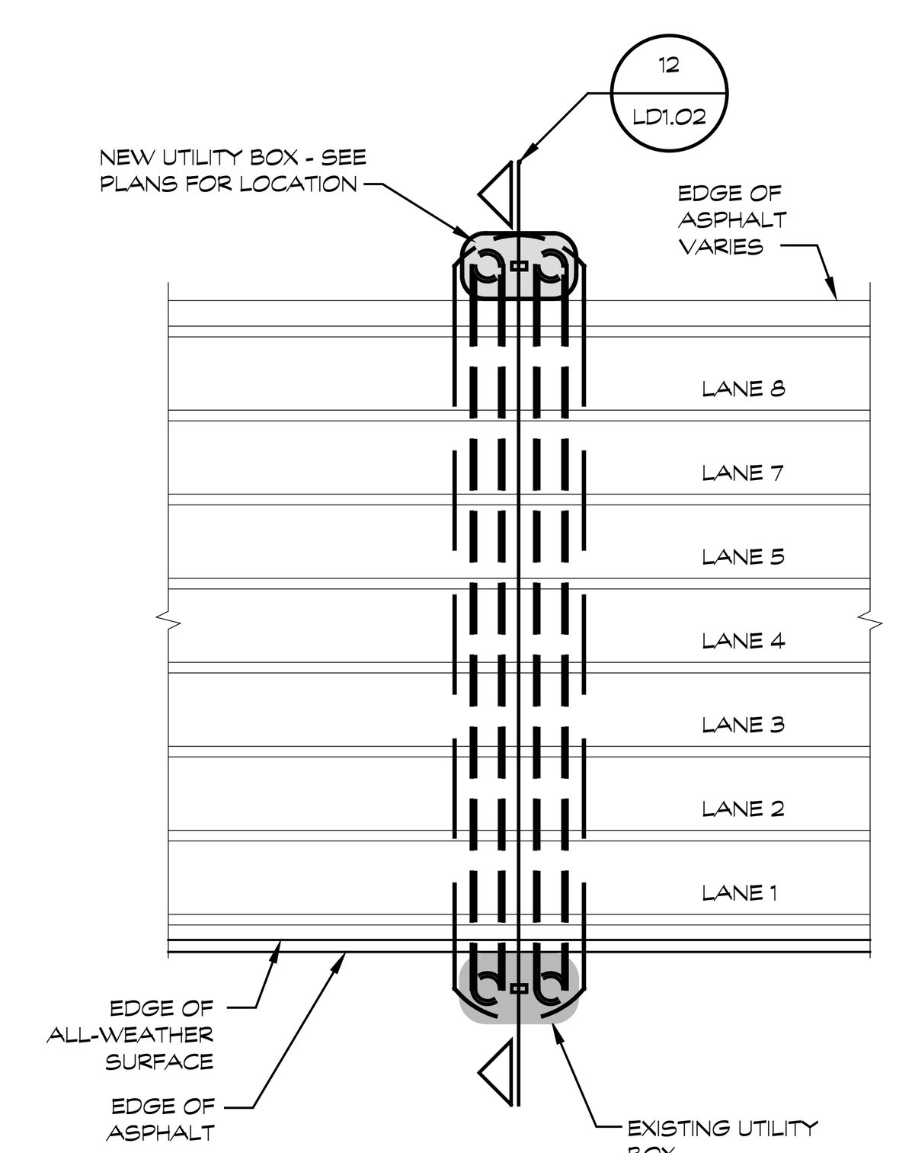
8 DISCUS RING SECTION
N.T.S.



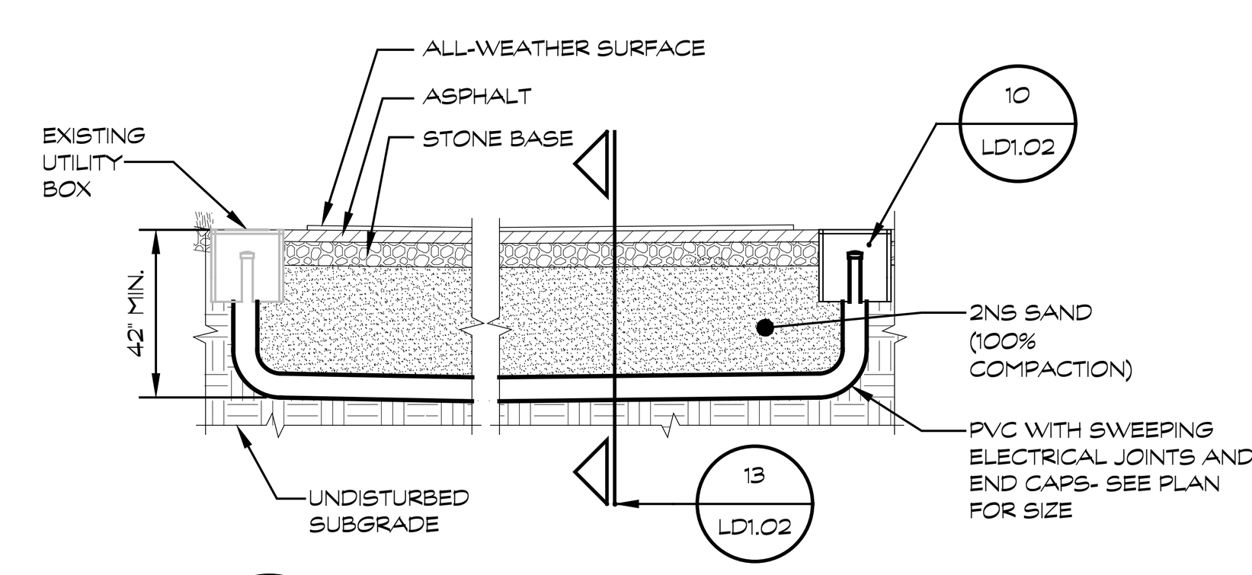
9 NET POLE SECTION
SCALE 1/4"=1'-0"



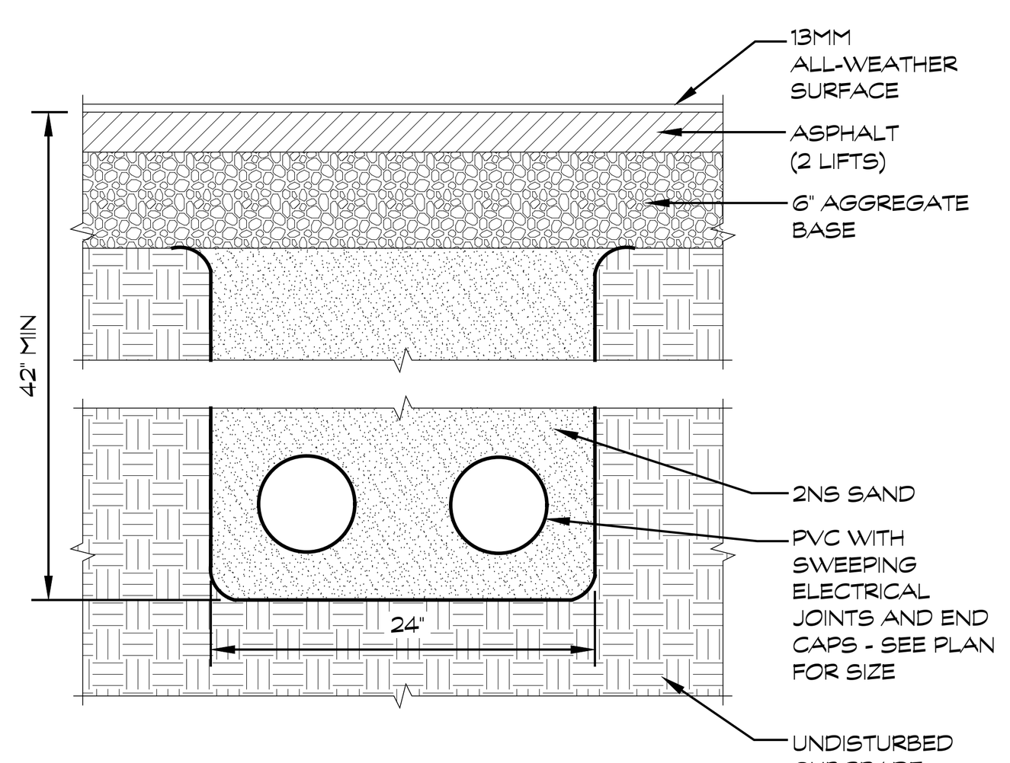
10 PAVEMENT UTILITY BOX DETAIL
SCALE 1"=1'-0"



11 UTILITY SLEEVE LAYOUT
SCALE 1/8"=1'-0"



12 UTILITY SLEEVE SECTION
SCALE 1/4"=1'-0"



13 UTILITY SLEEVE DETAIL
NTS

ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING \ SITE PLANNING
CONSULTING \ LANDSCAPE ARCHITECTURE
3269 COOLIDGE HWY BERKLEY MI 48072
2485477757

PROJECT TITLE
Athens High School
Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Track and Field Event Details

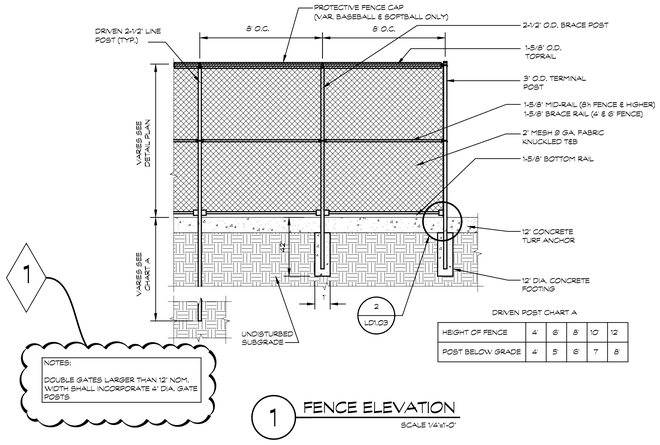
ISSUE DATES

DATE:	ISSUED FOR:
01–14–2025	ADDENDUM NO.1
12–10–2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

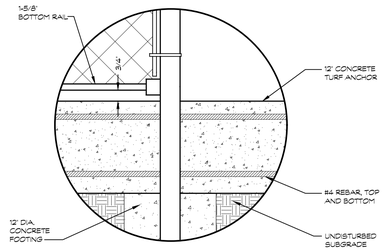
DRAWING NO.
LD1.02



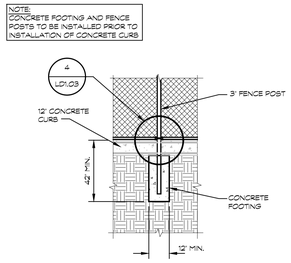
DRIVEN POST CHART A

HEIGHT OF FENCE	4'	6'	8'	10'	12'
POST BELOW GRADE	4'	5'	6'	7'	8'

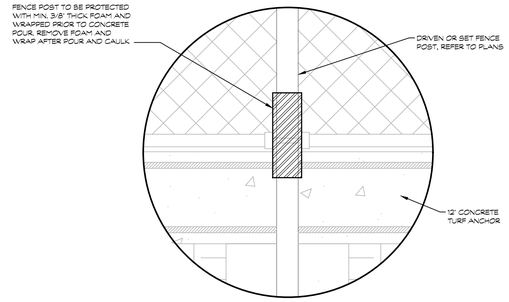
1 FENCE ELEVATION
SCALE 1/4"=1'-0"



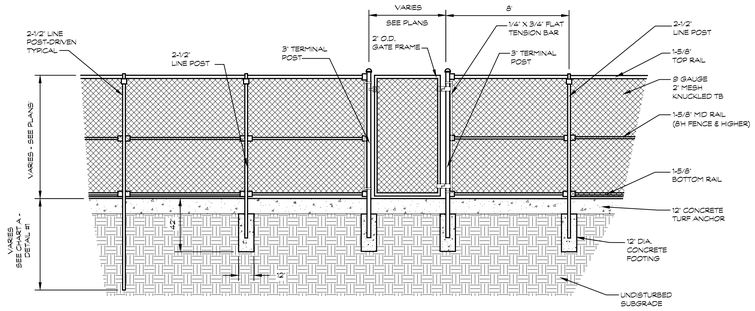
2 FENCE CONCRETE DETAIL
SCALE 1/4"=1'-0"



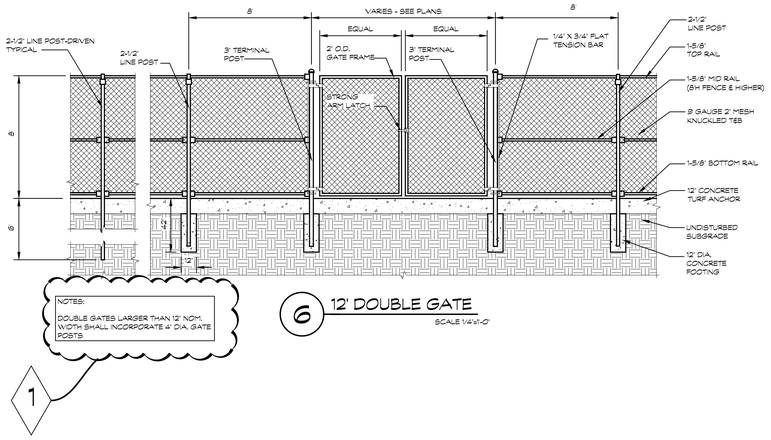
3 FENCE CONCRETE DETAIL
SCALE 1/4"=1'-0"



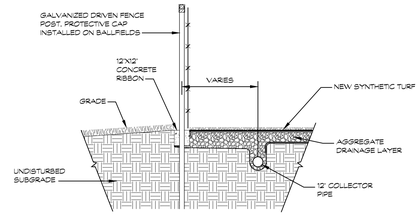
4 FENCE INSTALLATION DETAIL
SCALE 1-1/2"=1'-0"



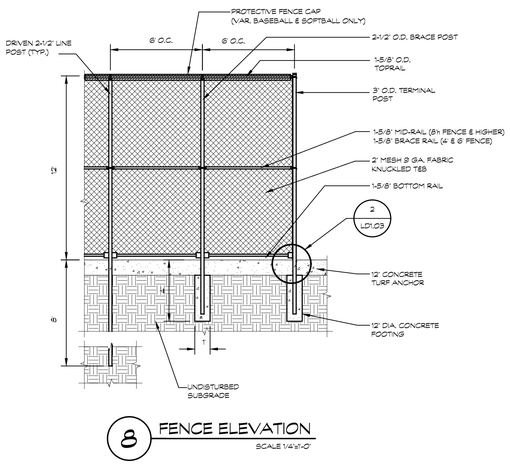
5 PEDESTRIAN GATE
SCALE 1/4"=1'-0"



6 12' DOUBLE GATE
SCALE 1/4"=1'-0"



7 SYNTHETIC TURF FENCE SECTION
SCALE 1/4"=1'-0"



8 FENCE ELEVATION
SCALE 1/4"=1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3003 COOLIDGE HWY BERKLEY MI 48072
248-547-7757

PROJECT TITLE
Athens High School
Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Synthetic Turf
Fence Details

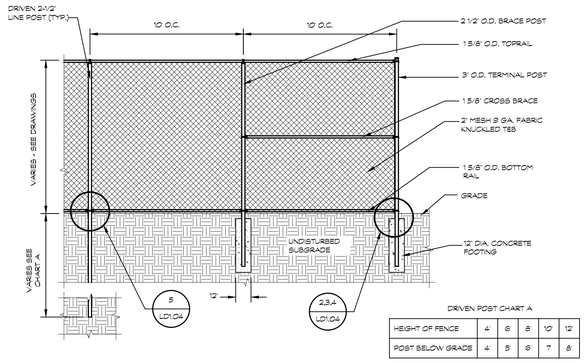
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

DRAWING NO.
LD1.04



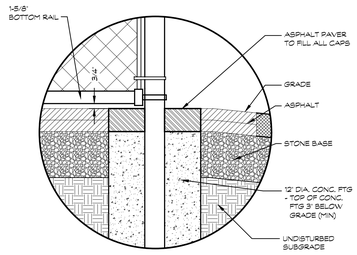
DRIVEN POST CHART A

HEIGHT OF FENCE	4'	6'	8'	10'	12'
POST BELOW GRADE	4'	5'	6'	7'	8'

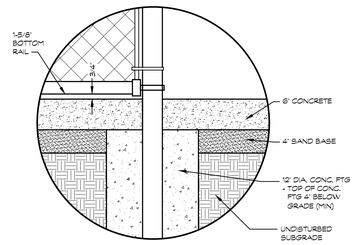
NOTES:
DOUBLE GATES LARGER THAN 12' NOM. WIDTH SHALL INCORPORATE 4' DIA. GATE POSTS

1

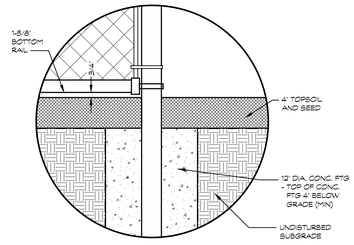
1 FENCE ELEVATION
SCALE 1/4"=1'-0"



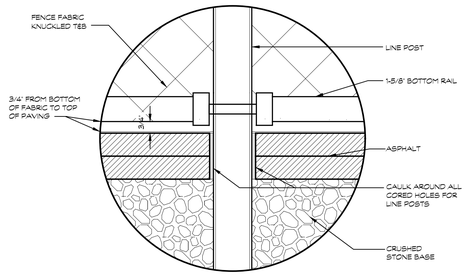
2 FENCE PAVEMENT DETAIL
SCALE 1/4"=1'-0"



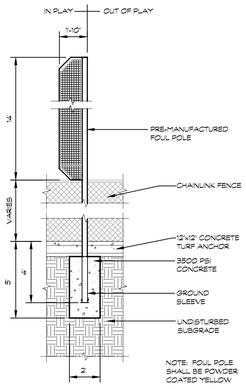
3 FENCE CONCRETE DETAIL
SCALE 1/4"=1'-0"



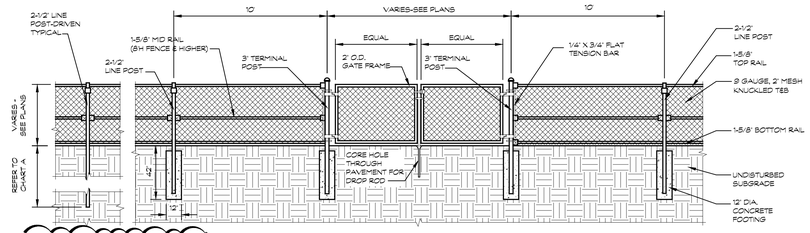
4 FENCE LAWN DETAIL
SCALE 1/4"=1'-0"



5 DRIVEN FENCE POST CAULKING
SCALE 3"=1'-0"



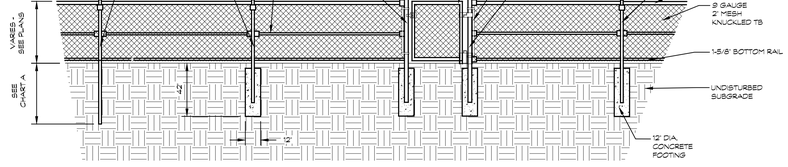
6 FOUL POLE
SCALE 1/4"=1'-0"



NOTES:
DOUBLE GATES LARGER THAN 12' NOM. WIDTH SHALL INCORPORATE 4' DIA. GATE POSTS

1

7 DOUBLE GATE DETAIL
SCALE 1/4"=1'-0"



8 PEDESTRIAN GATE
SCALE 1/4"=1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3969 COOLIDGE HWY BERKLEY MI 48072
248.547.7767

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
General Fence Details

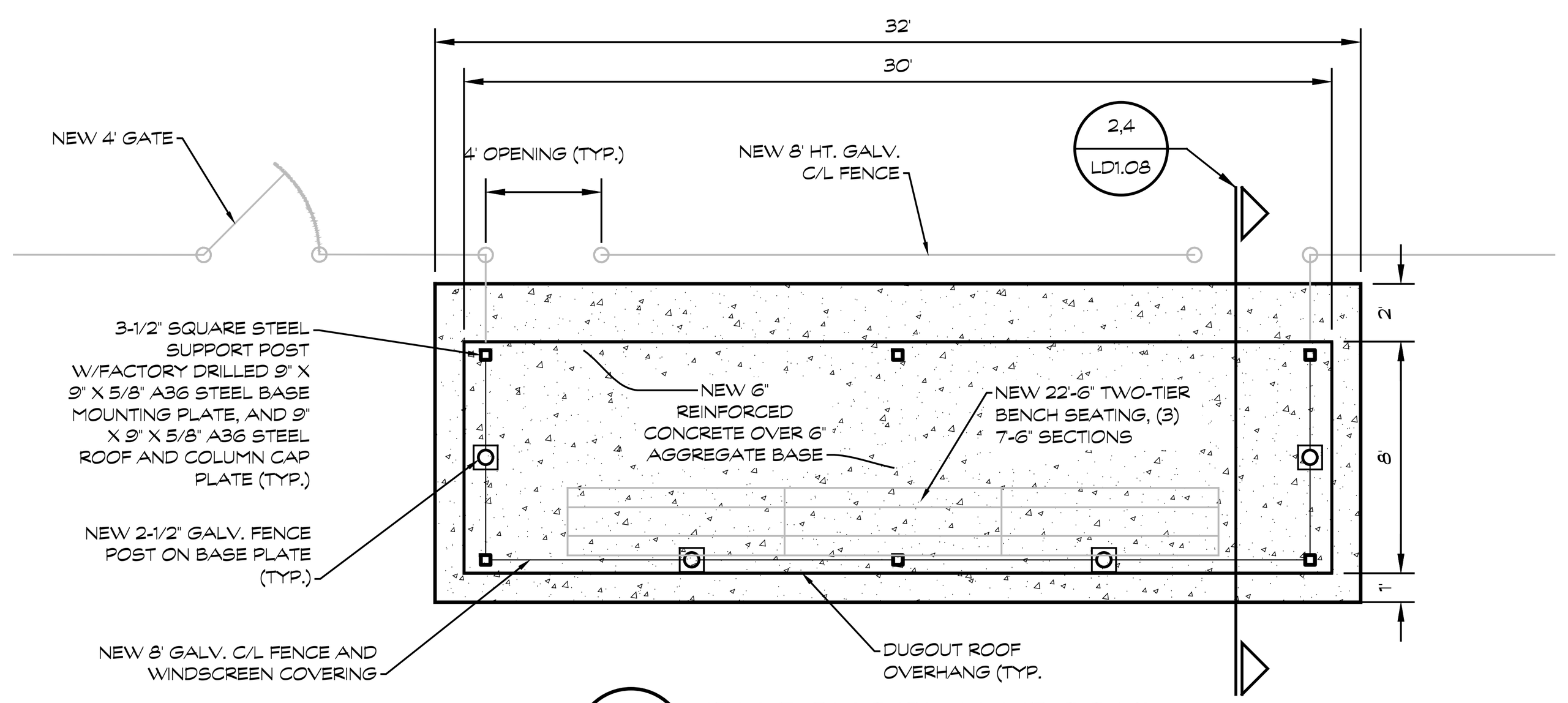
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

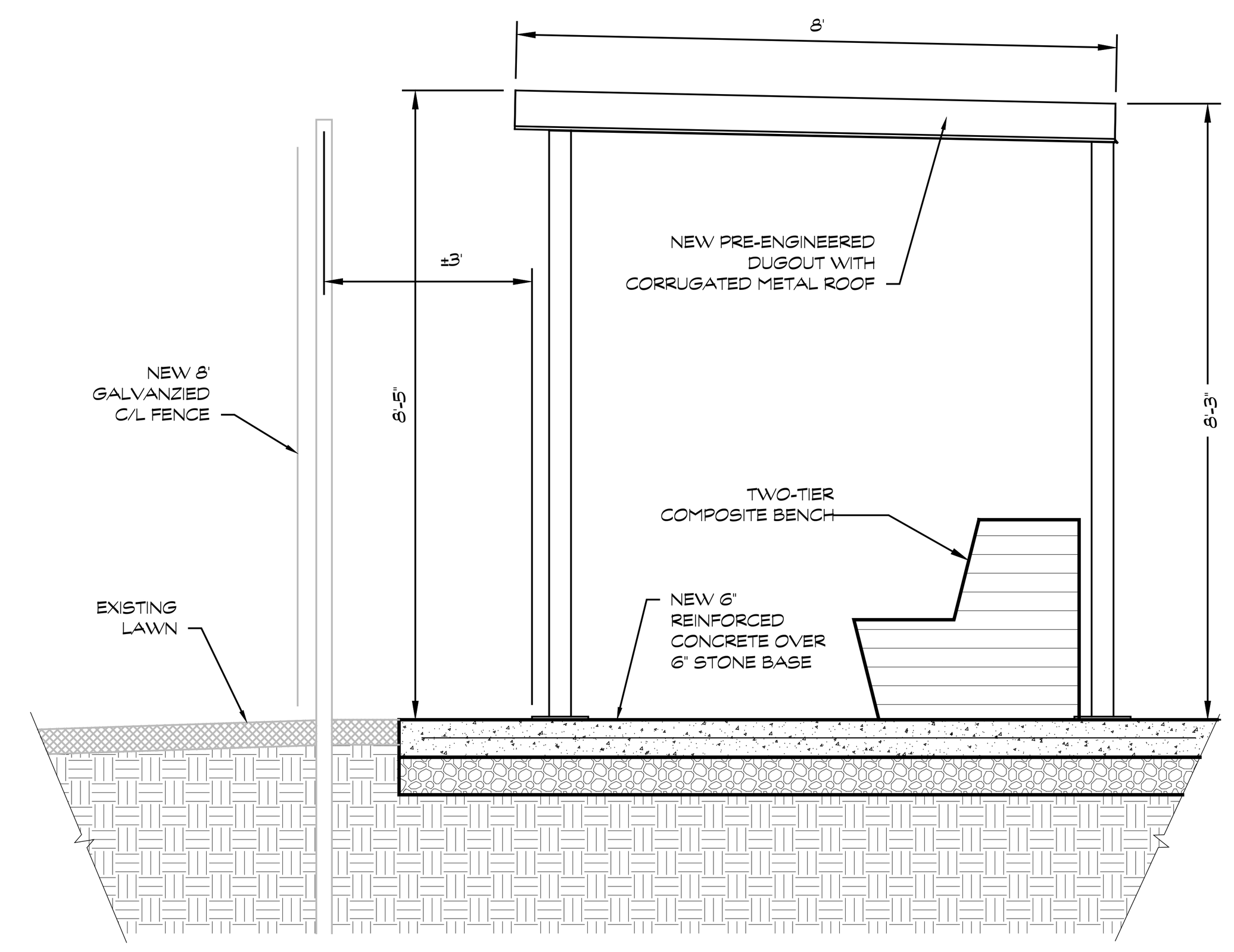
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

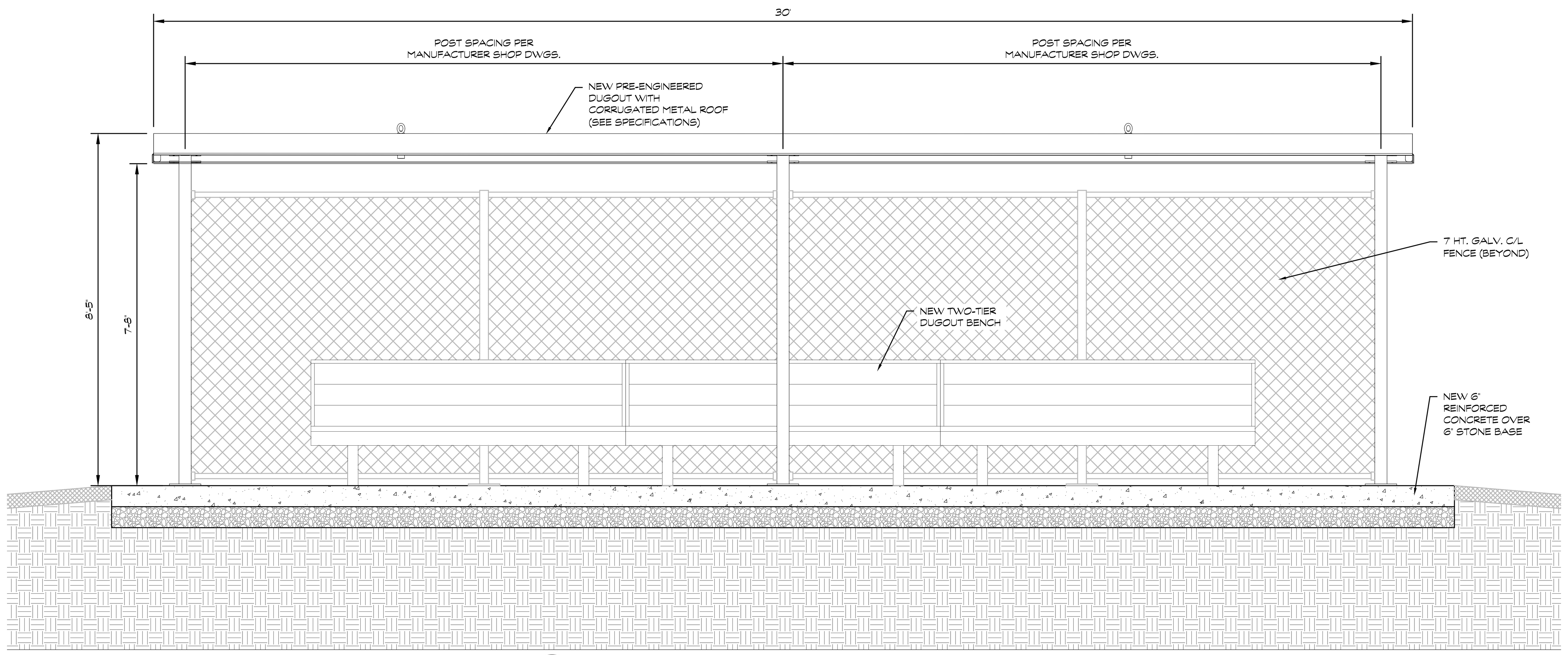
DRAWING NO.
LD1.05



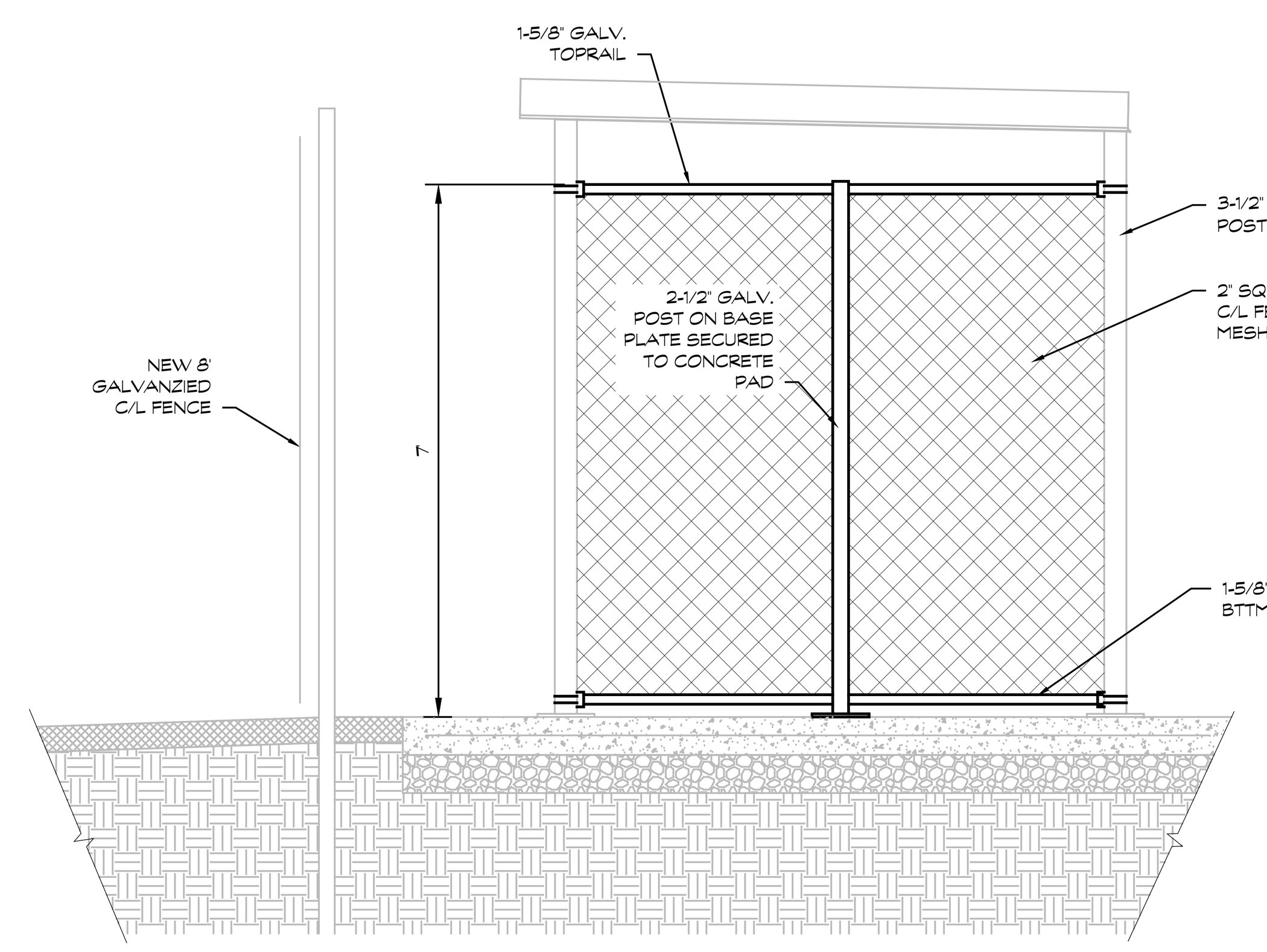
1 DUGOUT PLAN DETAIL
SCALE 3/16"=1'-0"



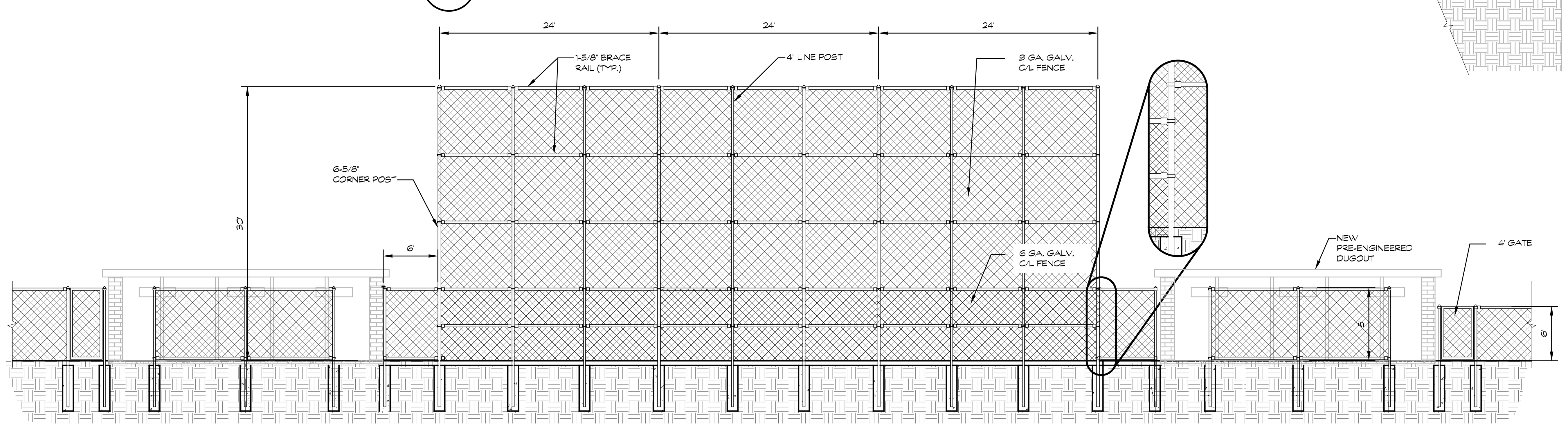
2 DUGOUT SECTION DETAIL
SCALE 1/2"=1'-0"



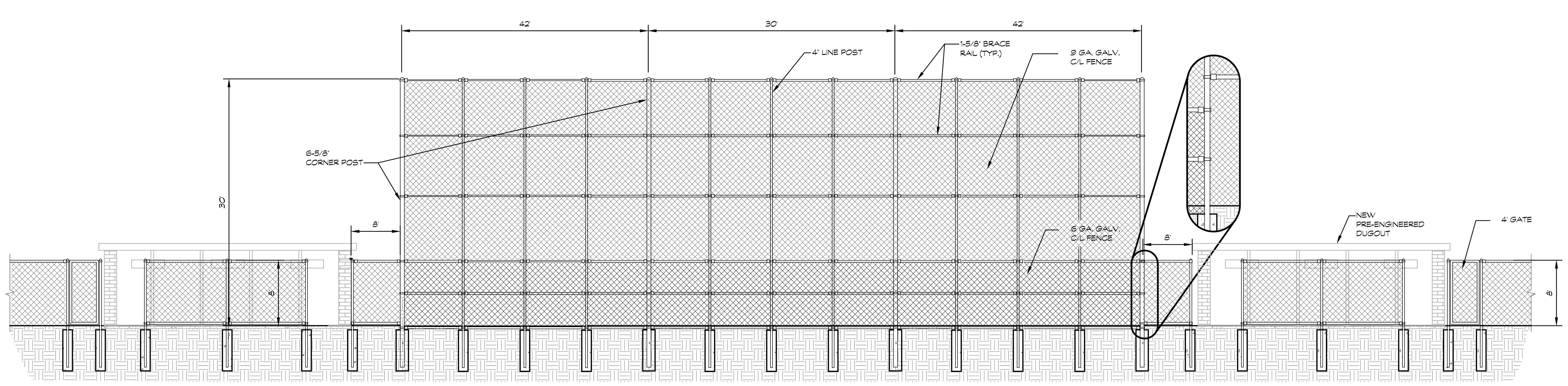
3 DUGOUT ELEVATION DETAIL - FRONT
SCALE 1/2"=1'-0"



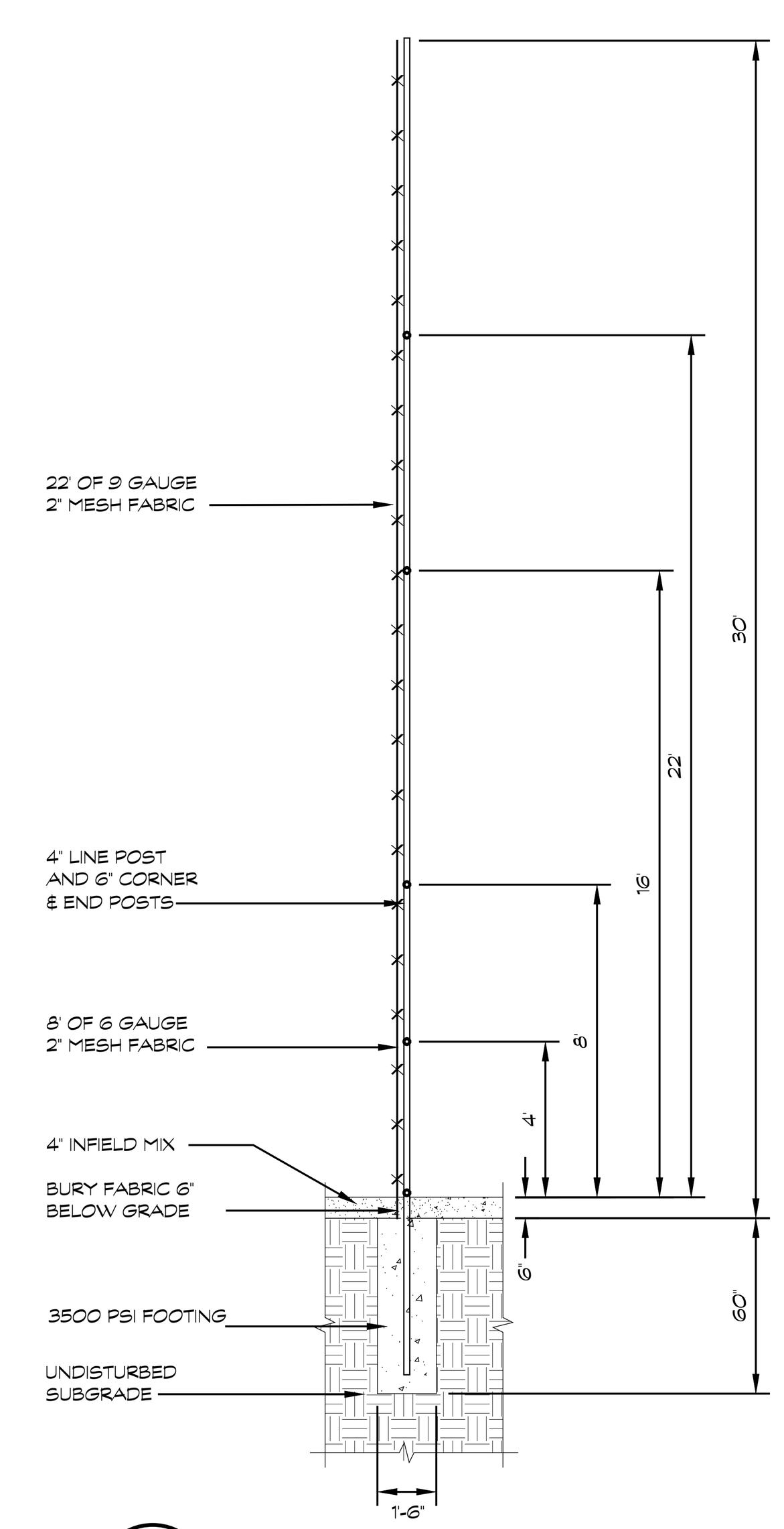
4 DUGOUT FENCE SECTION
SCALE 1/2"=1'-0"



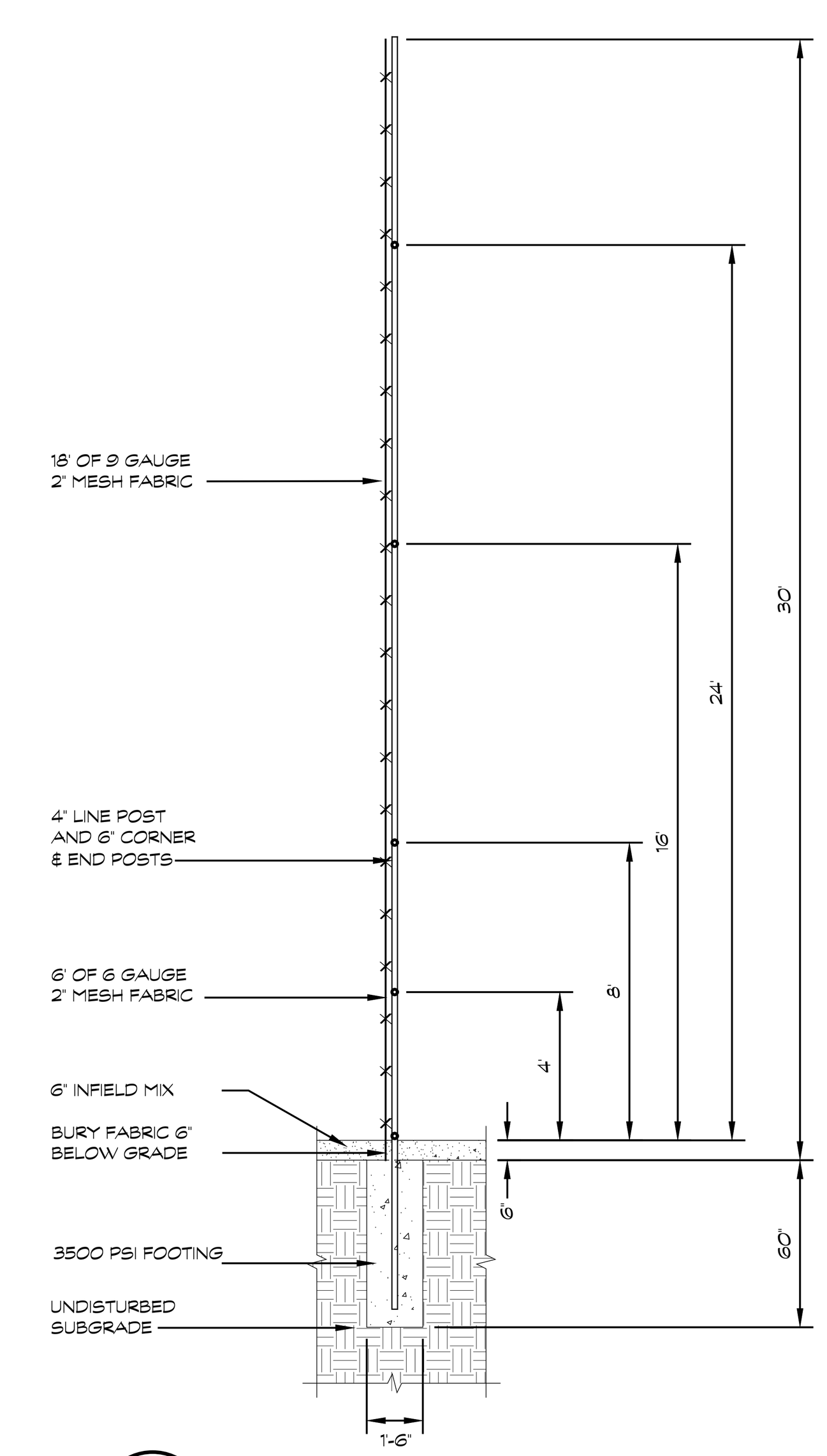
5 BACKSTOP AND DUGOUT ELEVATION
JV SOFTBALL SCALE 1/8"=1'-0"



6 BACKSTOP AND DUGOUT ELEVATION
JV BASEBALL SCALE 1/8"=1'-0"



7 BACKSTOP SECTION
JV SOFTBALL SCALE 1/4"=1'-0"



8 BACKSTOP SECTION
JV BASEBALL SCALE 1/4"=1'-0"

ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING \ SITE PLANNING
CONSULTING \ LANDSCAPE ARCHITECTURE
3269 COOLIDGE HWY BERKLEY MI 48072
2485477757

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
J.V Backstop Details

ISSUE DATES

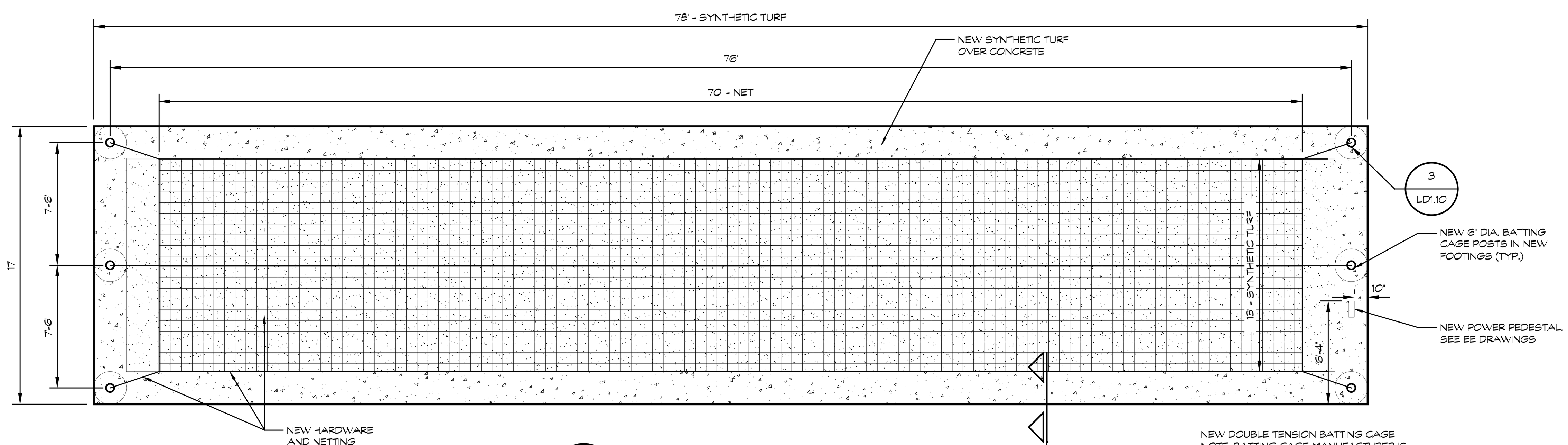
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

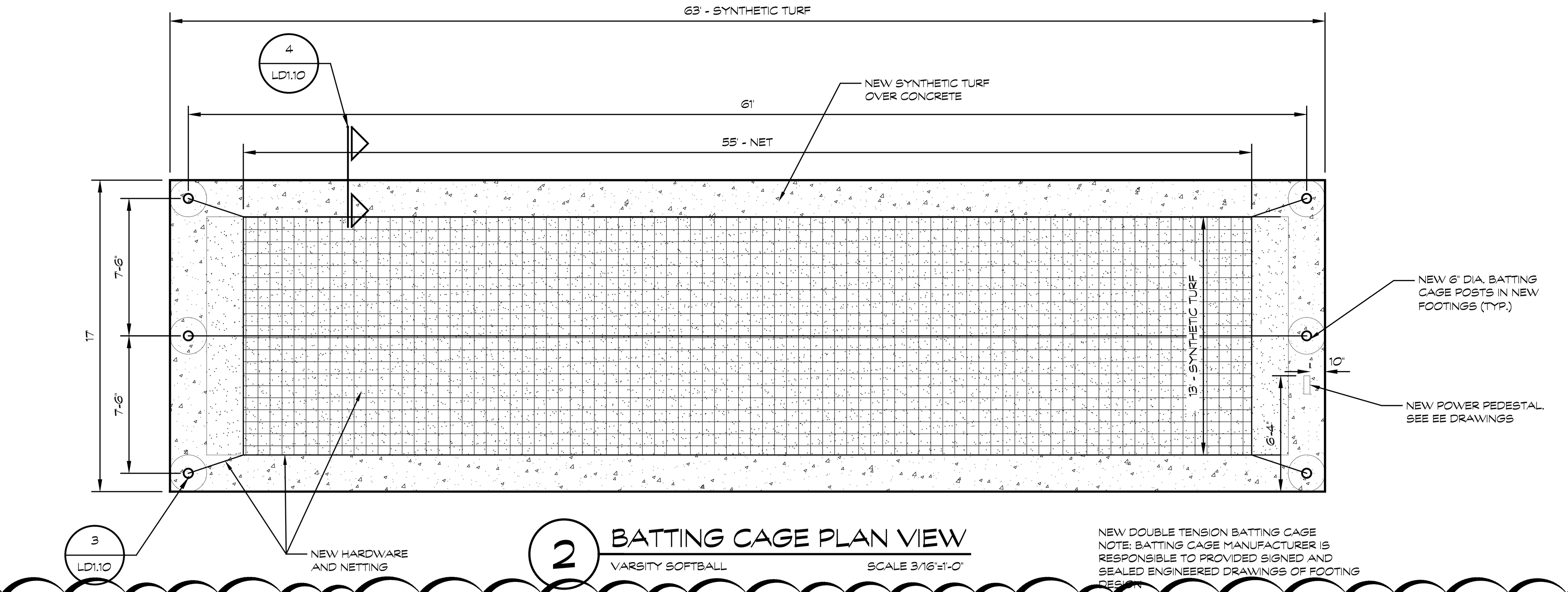
PROJECT NO.
22103D

DRAWING NO.
LD1.08

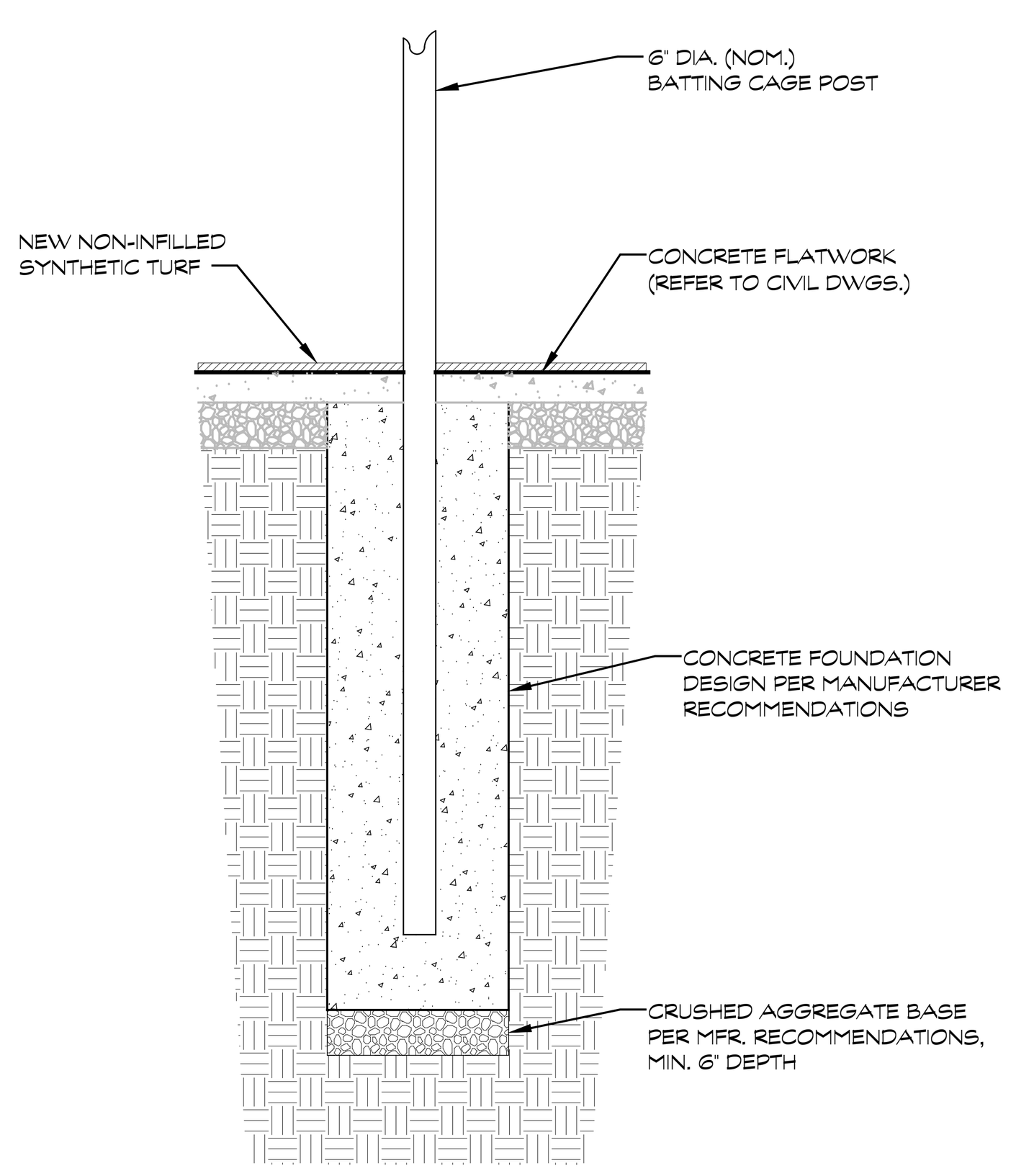
1



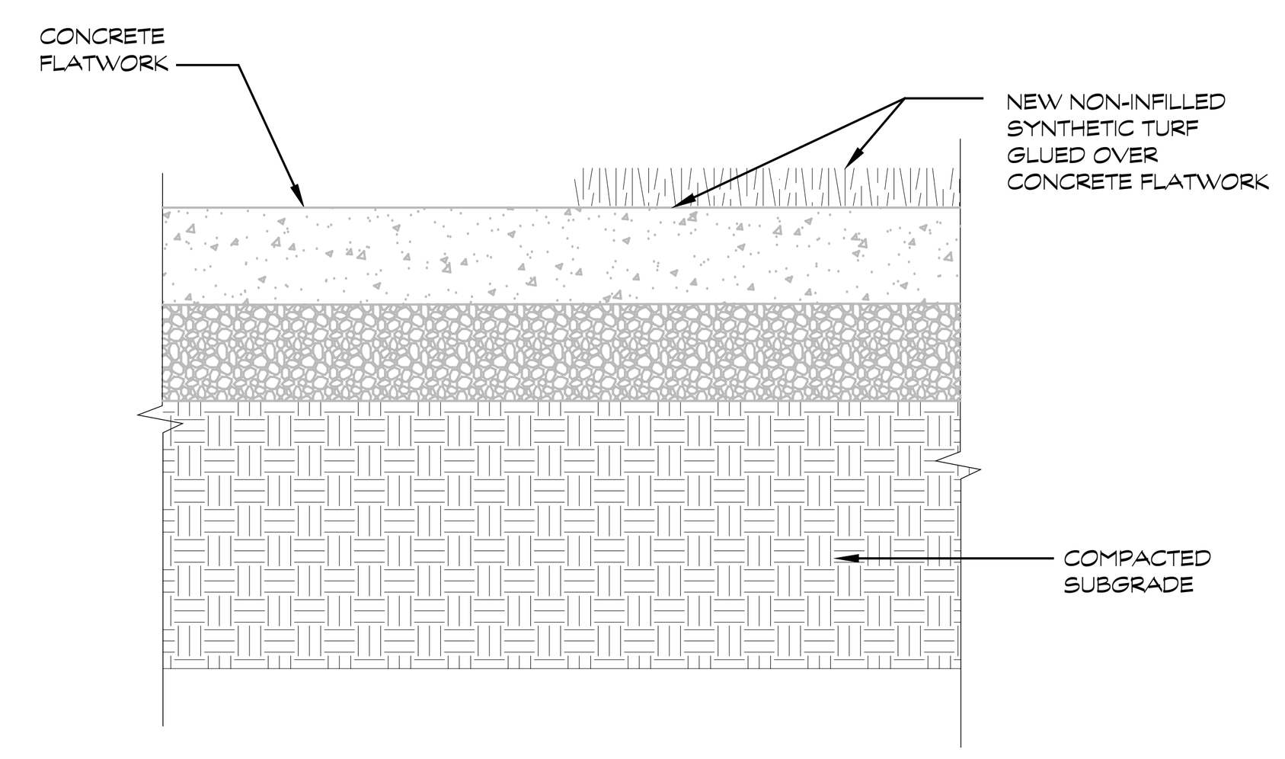
1 BATTING CAGE PLAN VIEW
VARSITY BASEBALL SCALE 3/16"=1'-0"



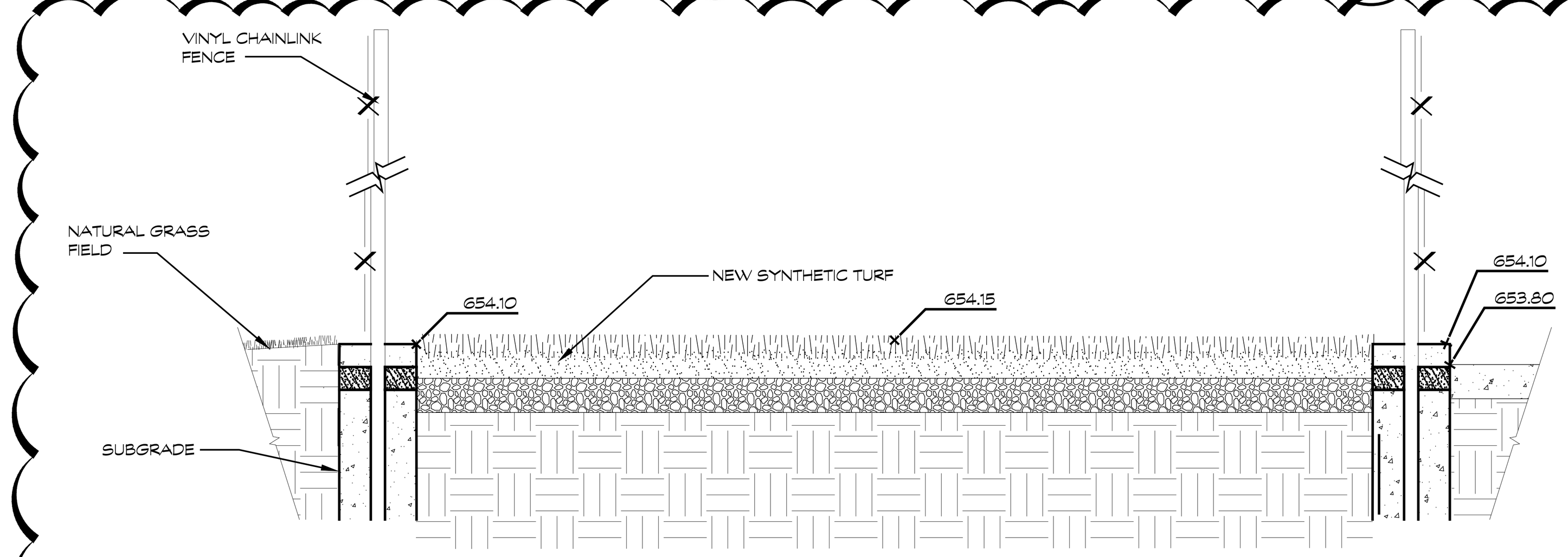
2 BATTING CAGE PLAN VIEW
VARSITY SOFTBALL SCALE 3/16"=1'-0"



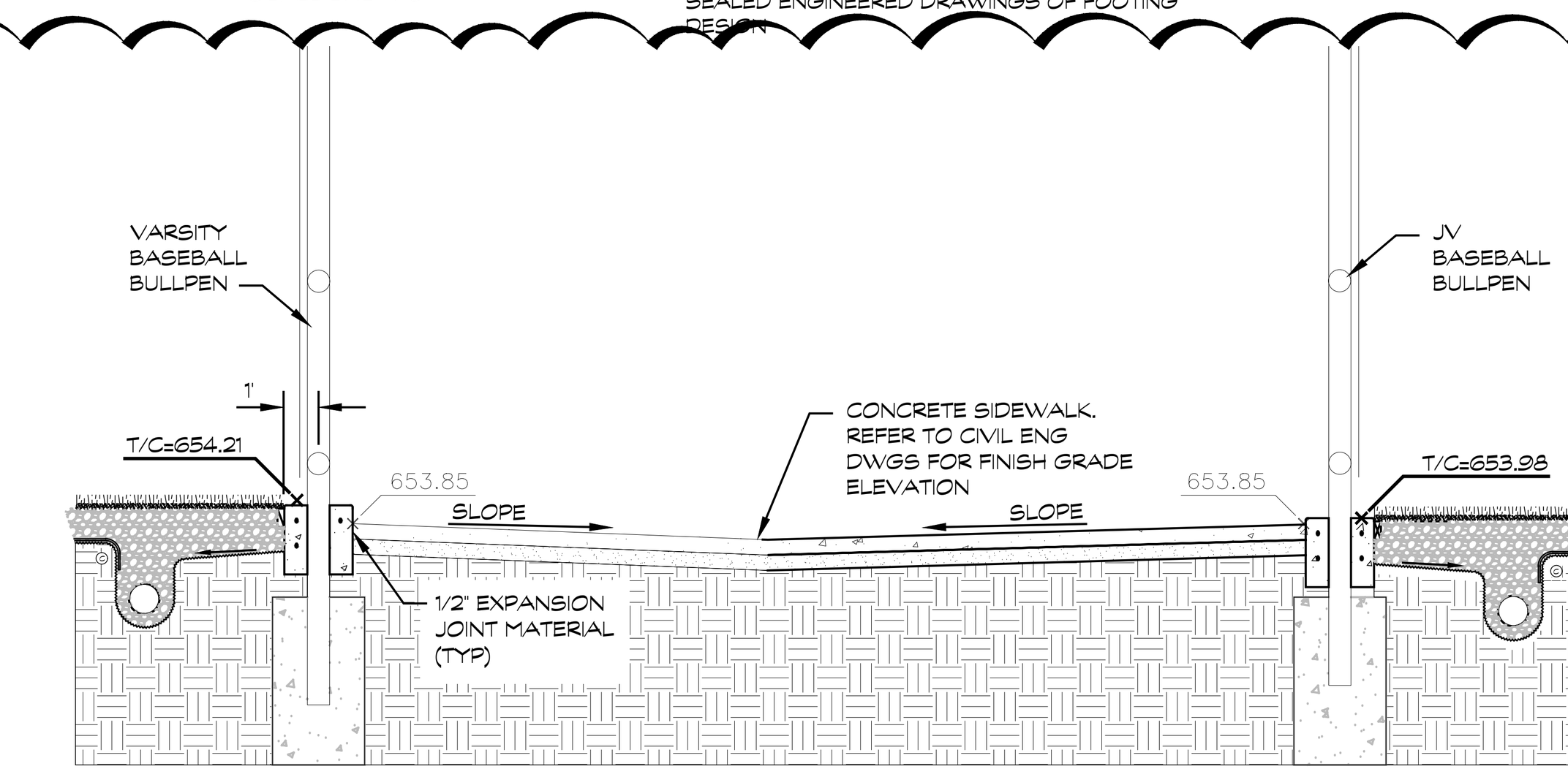
3 BATTING CAGE FOOTING
SCALE 1/2"=1'-0"



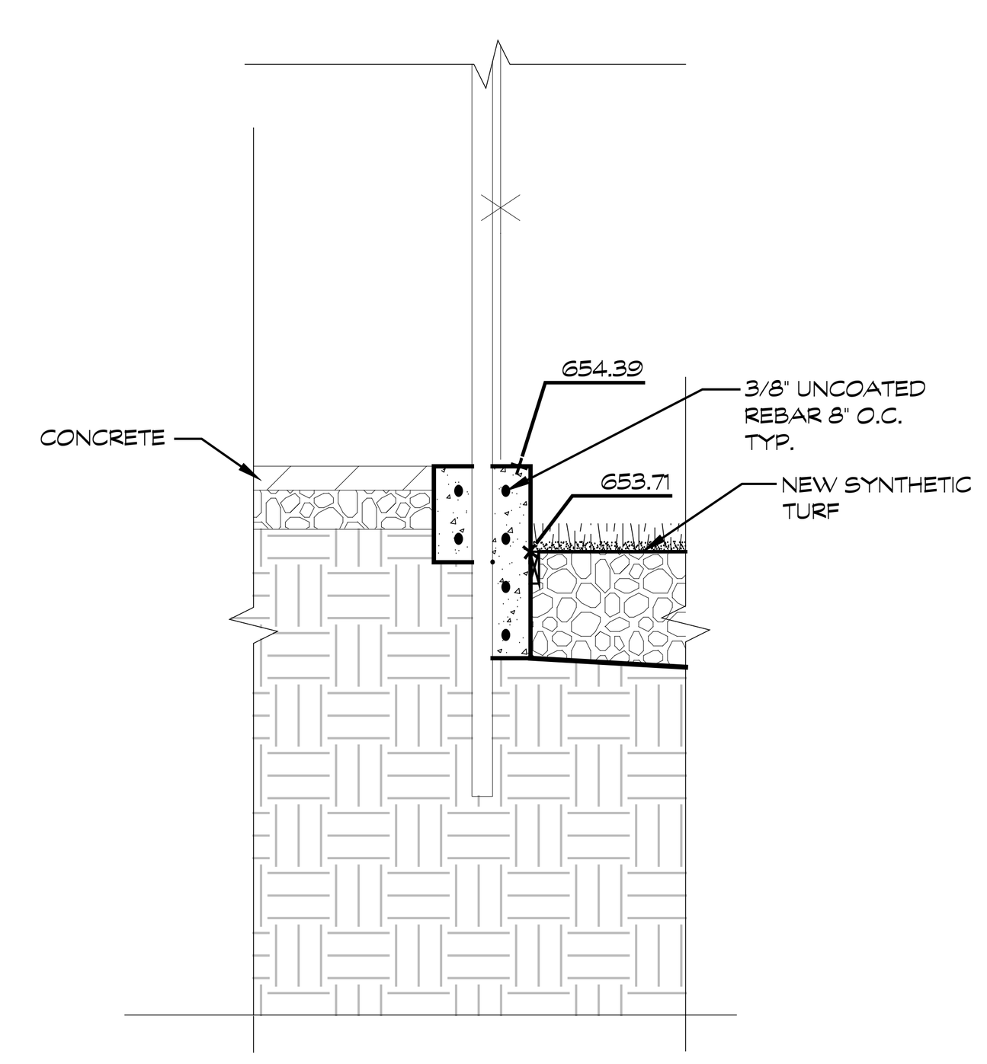
4 TURF SECTION
SCALE 1-1/2"=1'-0"



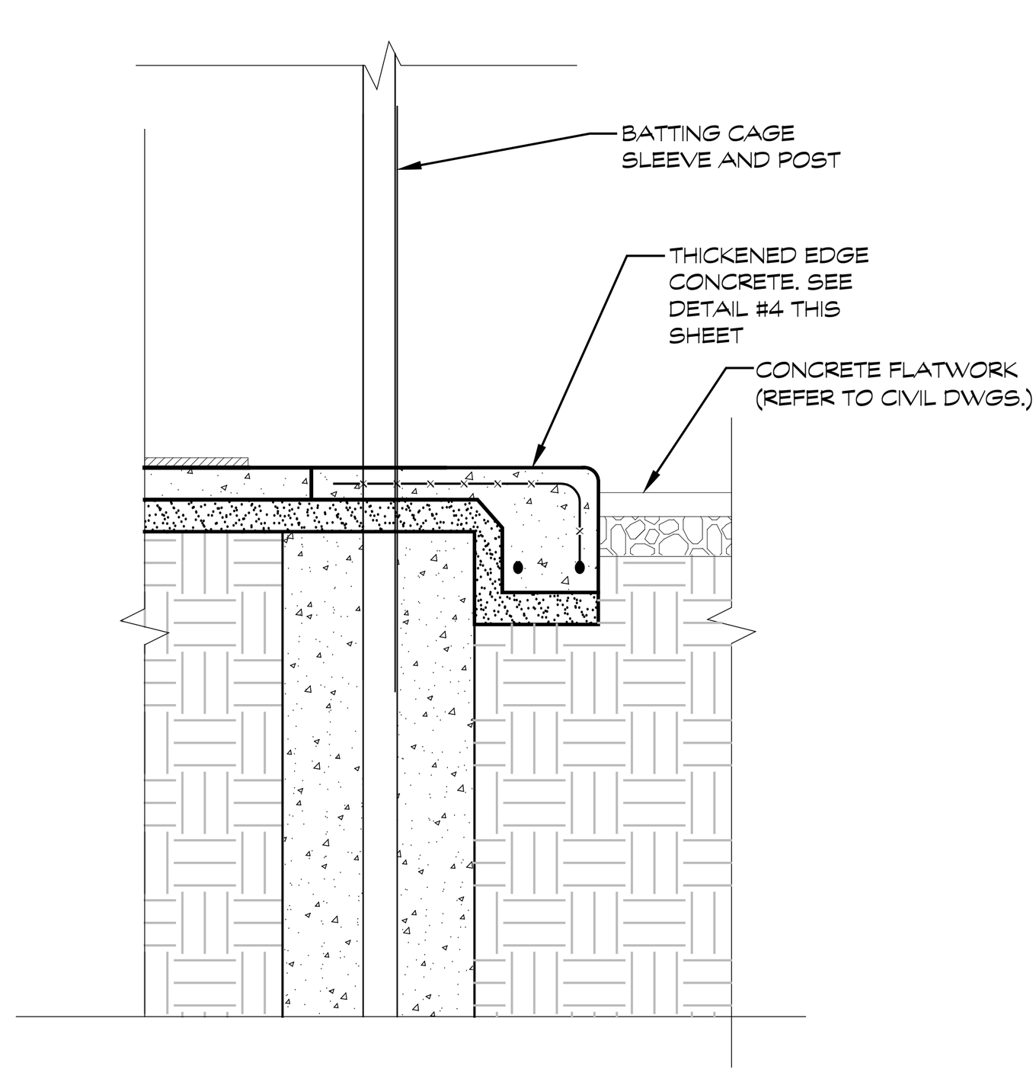
5 BULLPEN SECTION
JV SOFTBALL SCALE 1/2"=1'-0"



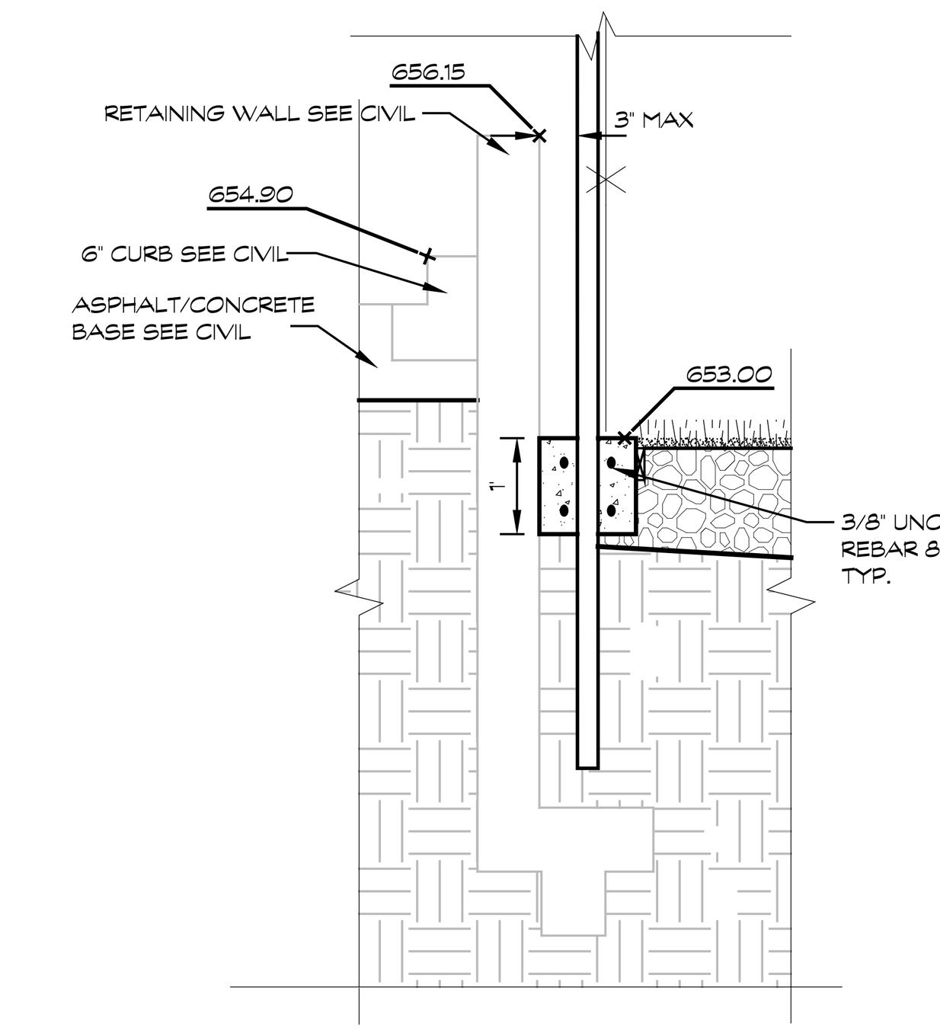
6 GRADE SECTION @ BULLPENS
JV & VARSITY BASEBALL SCALE 1/4"=1'-0"



7 SOFTBALL OUTFIELD EDGE
VARSITY SCALE 1/2"=1'-0"



8 SOFTBALL BATTING CAGE EDGE
VARSITY SCALE 1/2"=1'-0"



9 RETAINING WALL DETAIL
SCALE 1/2"=1'-0"

1

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING \ SITE PLANNING
CONSULTING \ LANDSCAPE ARCHITECTURE
3269 COOLIDGE HWY BERKLEY MI 48072
2485477757

PROJECT TITLE
Athens High School
Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Batting Cage
Details

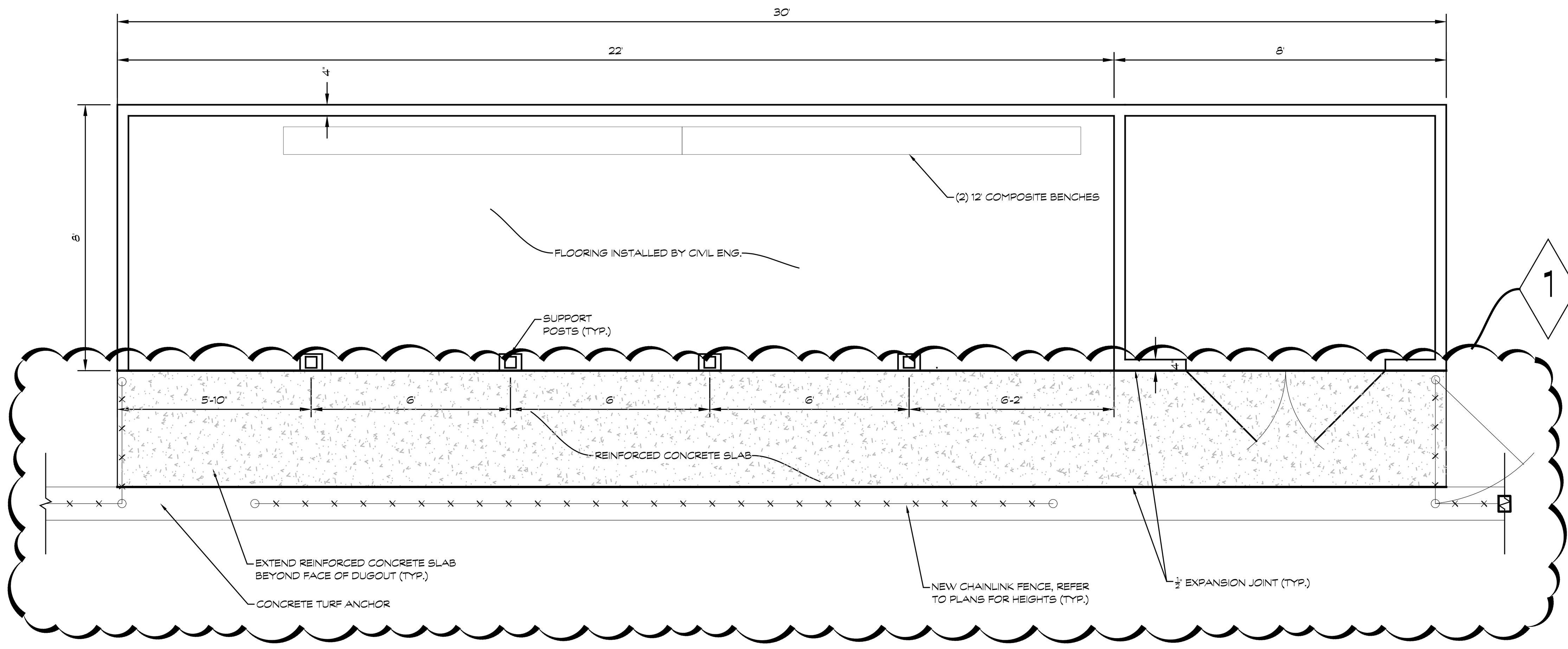
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

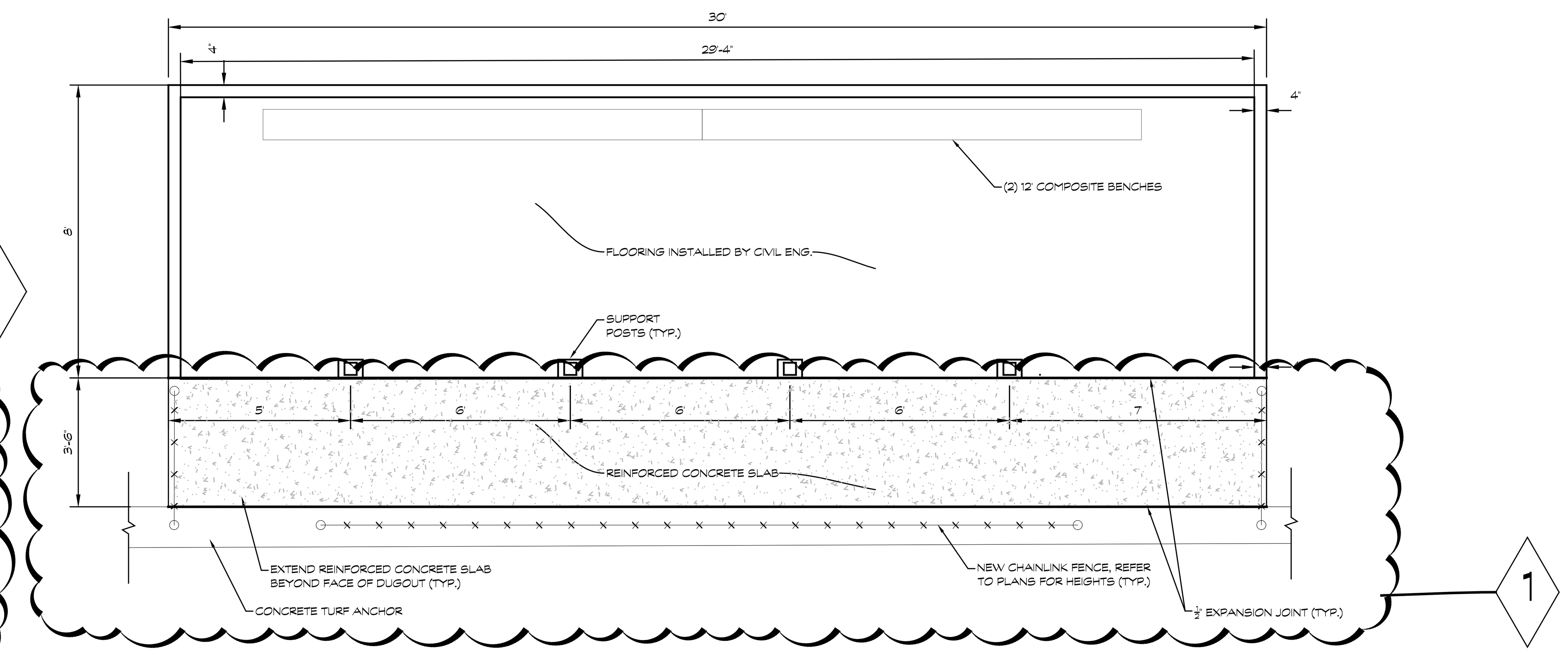
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

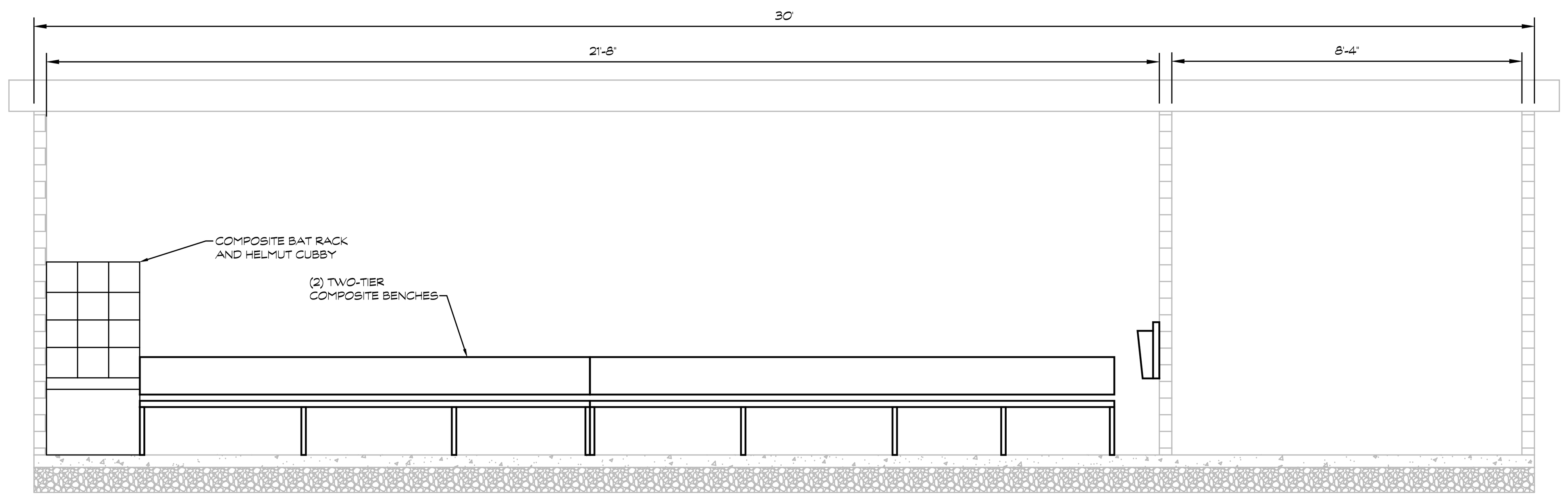
DRAWING NO.
LD1.10



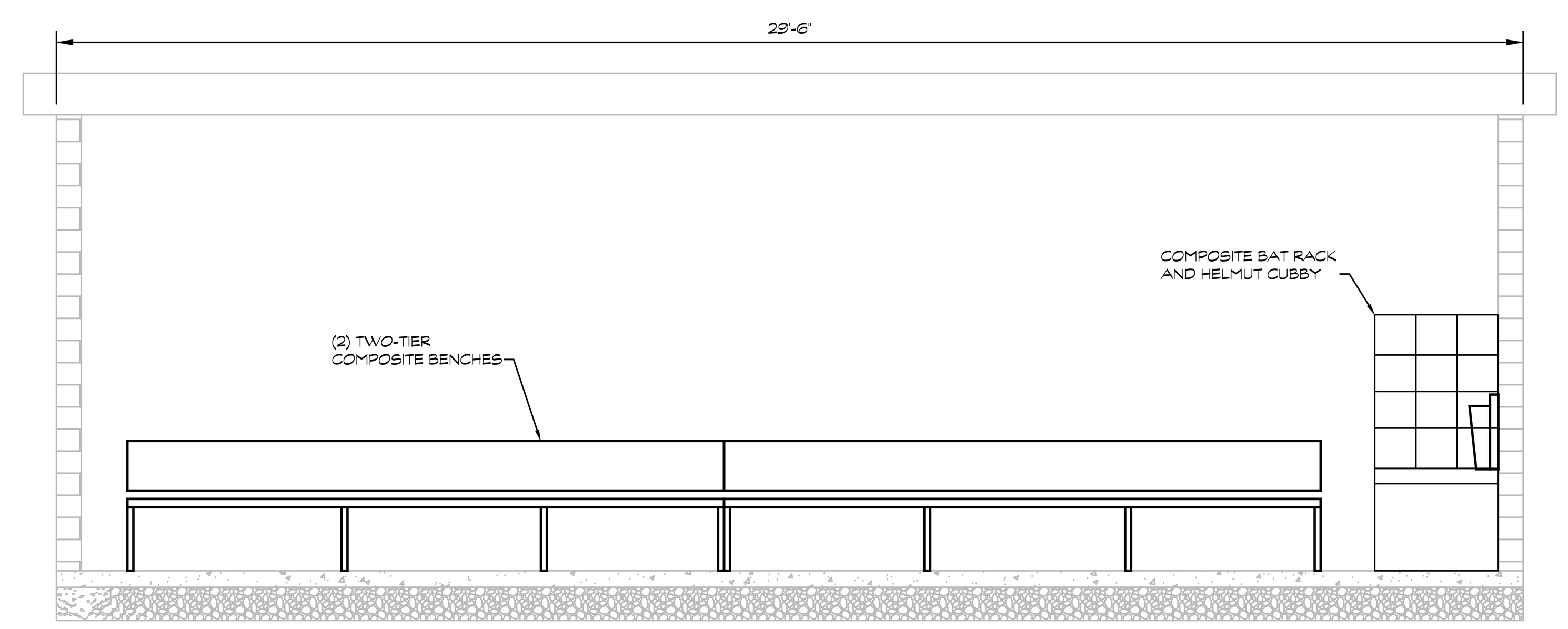
1 VISITOR DUGOUT FLOOR PLAN
SCALE 3/8"=1'-0"



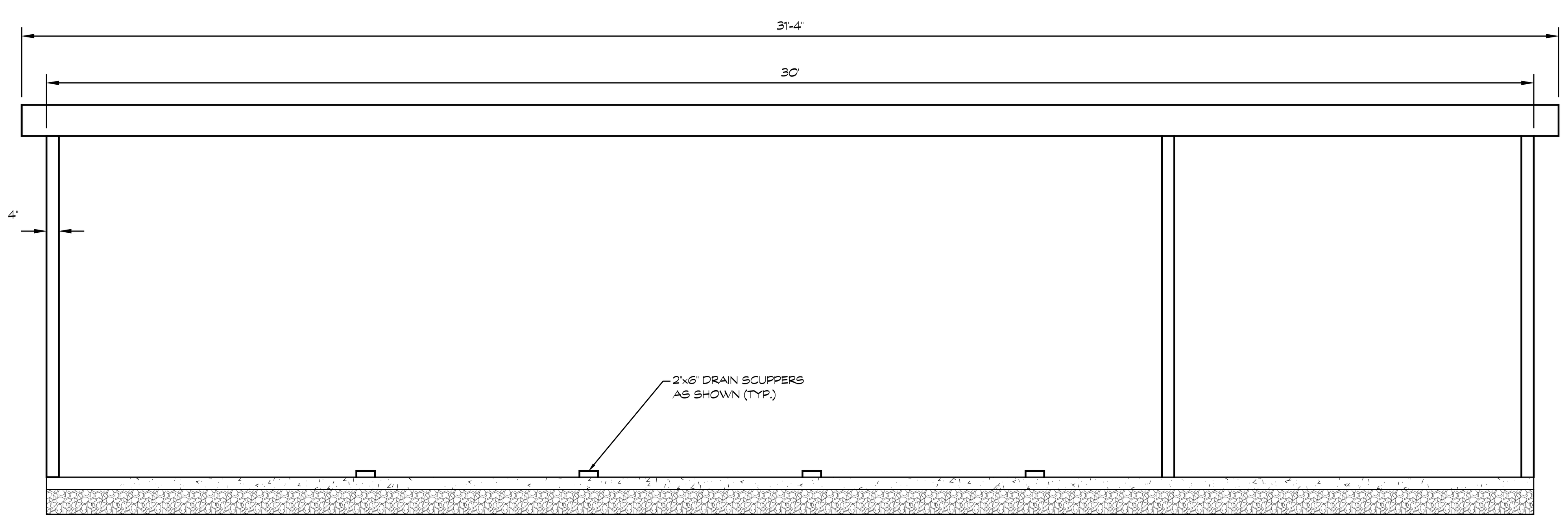
2 HOME DUGOUT FLOOR PLAN
SCALE 3/8"=1'-0"



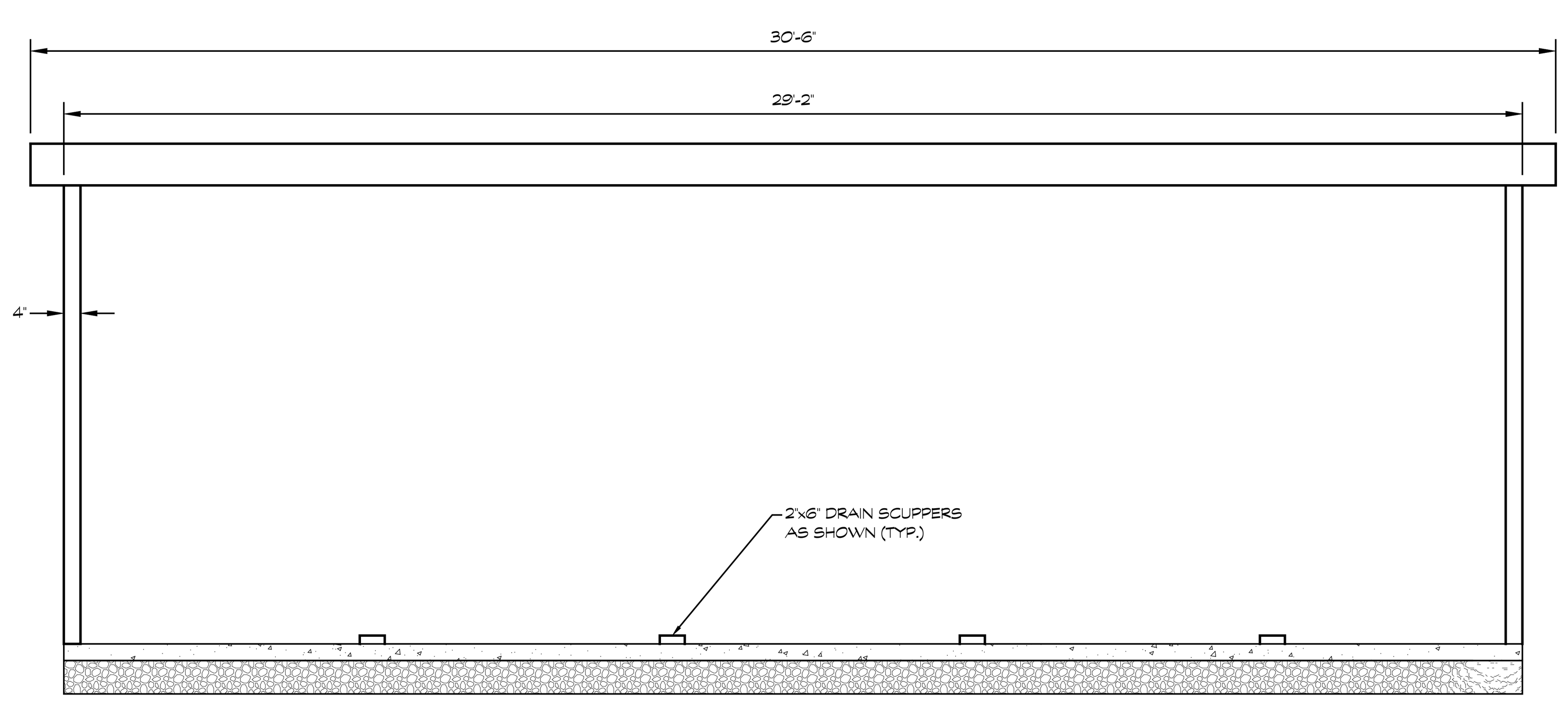
3 VISITOR DUGOUT EQUIPMENT ELEVATION
SCALE 3/8"=1'-0"



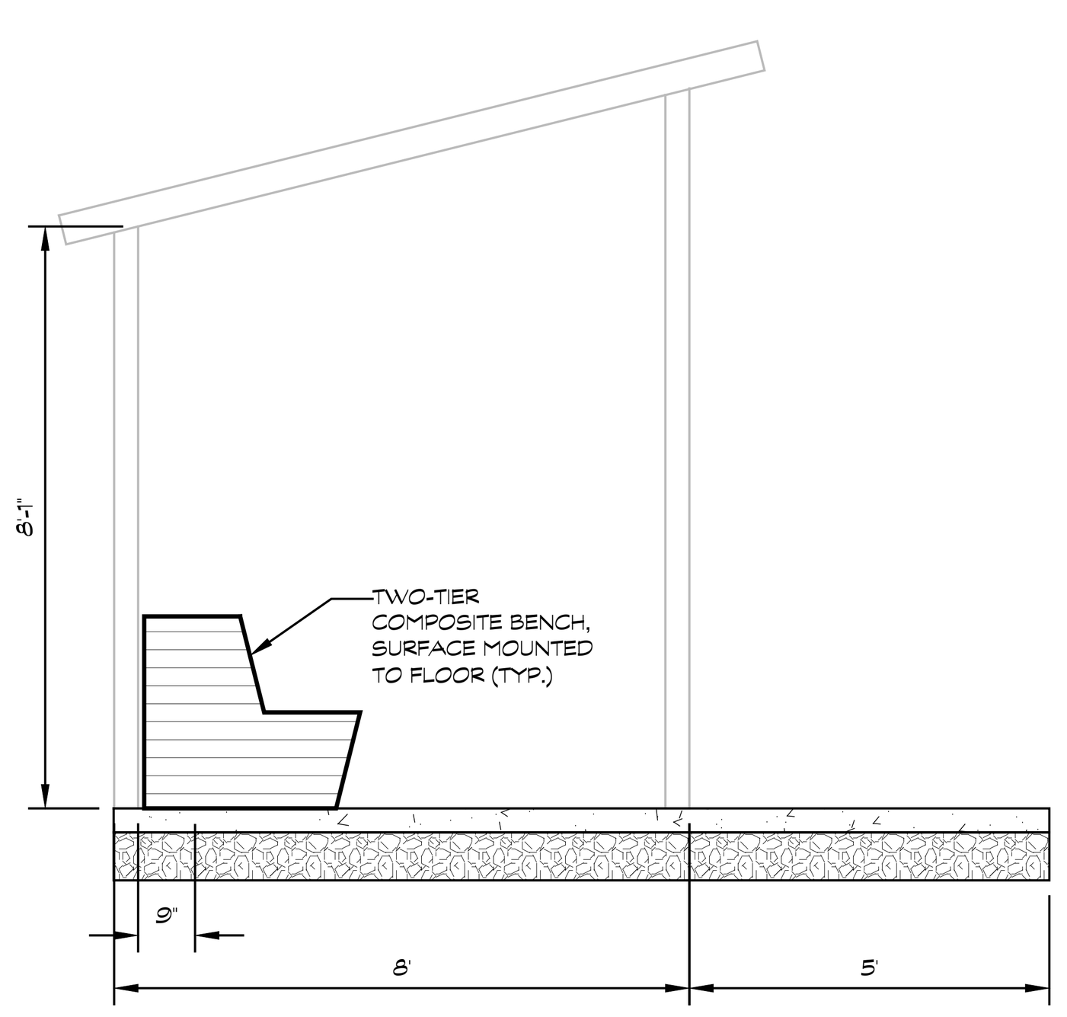
4 HOME DUGOUT EQUIPMENT ELEVATION
SCALE 3/8"=1'-0"



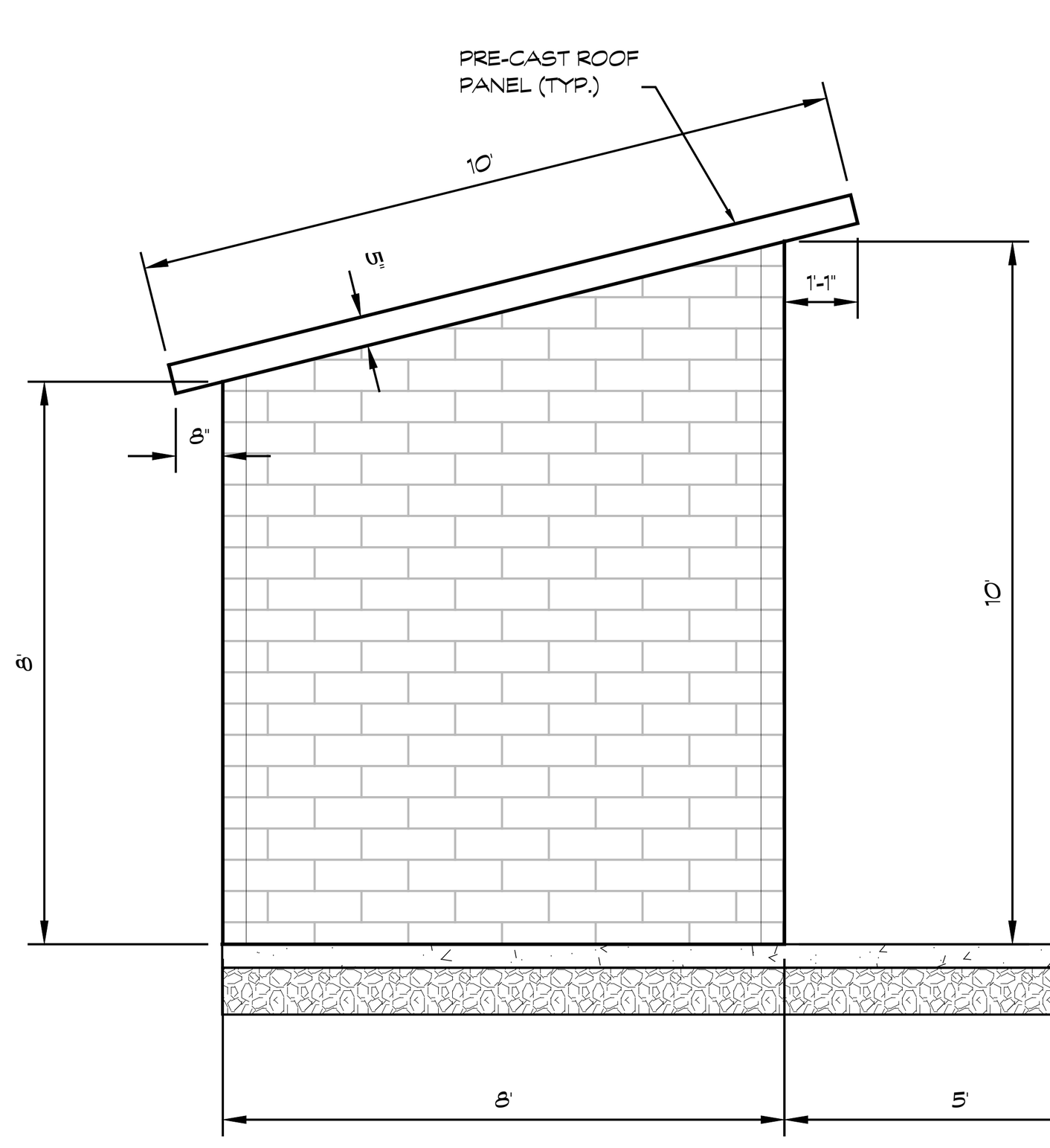
5 VISITOR DUGOUT REAR ELEVATION
SCALE 3/8"=1'-0"



6 HOME DUGOUT REAR ELEVATION
SCALE 3/8"=1'-0"



7 HOME & VISITOR SIDE ELEVATION
SCALE 3/8"=1'-0"



8 HOME & VISITOR SIDE ELEVATION
SCALE 3/8"=1'-0"

NOTES:

1. DUGOUT MANUFACTURER IS RESPONSIBLE TO PROVIDE SIGNED AND SEALED ENGINEERED DRAWINGS.
2. BUILDING FINISHES:
   a) EXTERIOR FINISH:
      □ 8" X 16" SPLIT FACE BRICK FORM
   b) FINISH COLORS:
      □ EXTERIOR WALL, ACCENT, AND DOOR COLOR: FACTORY PAINTED BY BUILDING MANUFACTURER, COLOR TO BE SELECTED BY OWNER

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS • MICHIGAN • 48302
PH • 248.338.4561 FX • 248.338.0223
EM • INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Varsity Dugouts Details

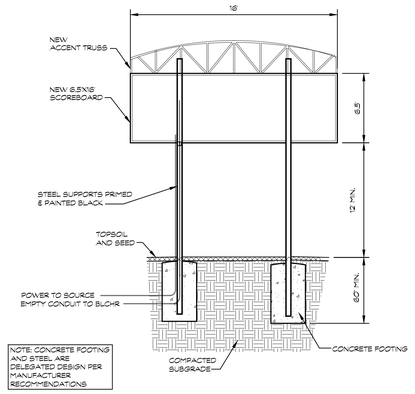
ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

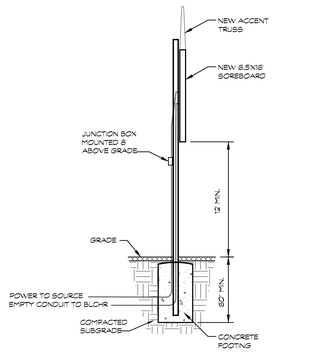
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

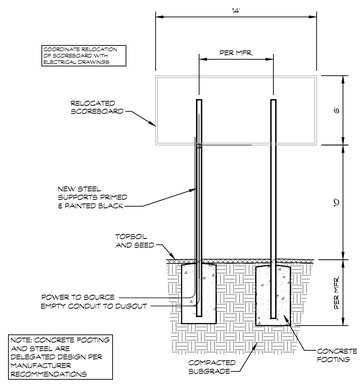
DRAWING NO.
LD1.11



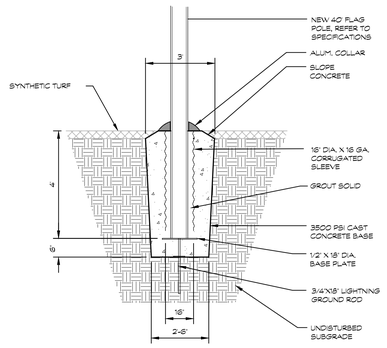
1 SCOREBOARD ELEVATION DETAIL
VARSITY BASEBALL AND SOFTBALL — SCALE 3/16"=1'-0"



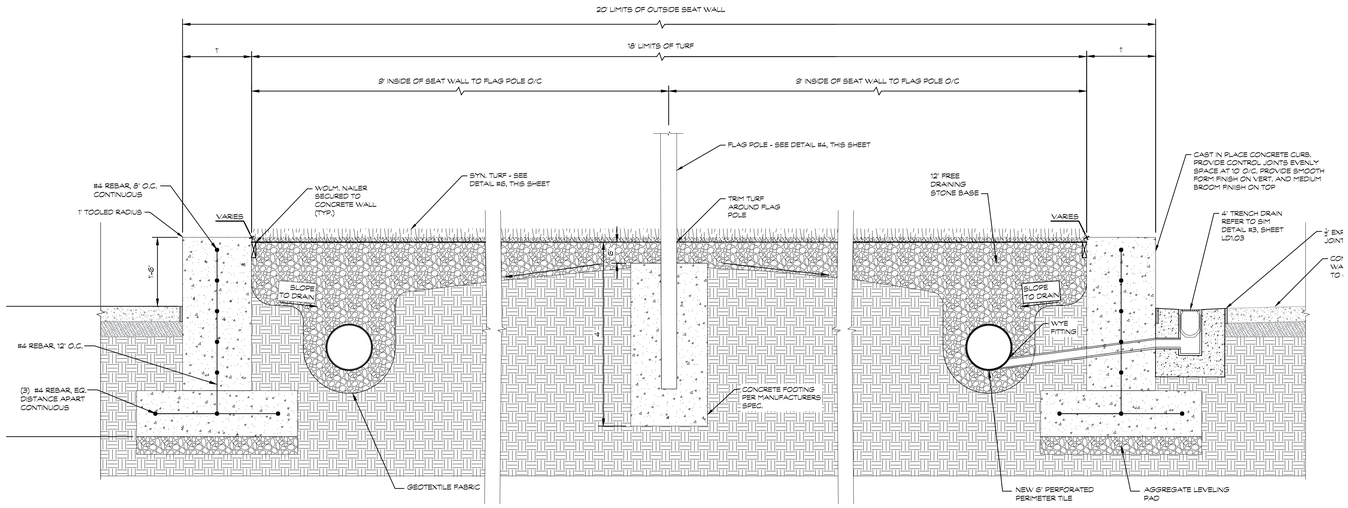
2 SCOREBOARD SECTION DETAIL
VARSITY BASEBALL AND SOFTBALL — SCALE 3/16"=1'-0"



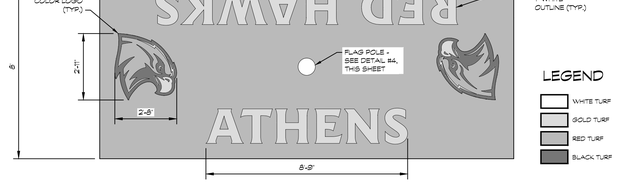
3 RELOCATED SCOREBOARD
JV BASEBALL AND SOFTBALL — SCALE 3/16"=1'-0"



4 FLAG POLE FOUNDATION
N.T.S.



5 FLAG POLE FOCAL POINT SECTION
NTS



6 FLAG POLE FOCAL POINT TURF DETAIL
SCALE 3/8"=1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3993 COOLIDGE HWY BERKLEY MI 48072
248-547-7767

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Scoreboard & Flag Pole Details

ISSUE DATES

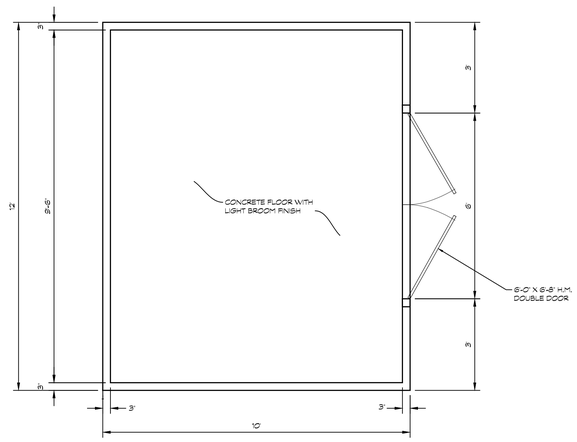
DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

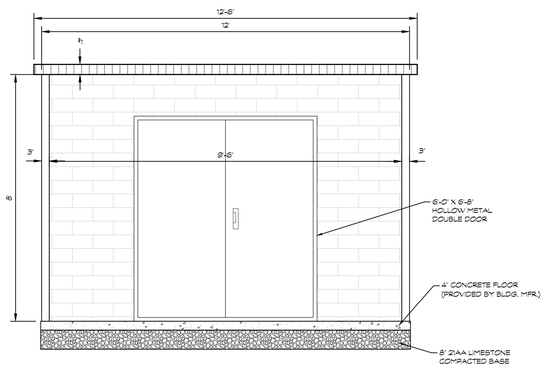
PROJECT NO.
22103D

DRAWING NO.
LD1.12

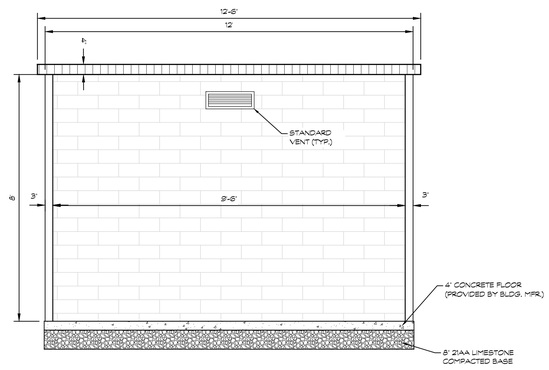
1



1 BUILDING FLOOR PLAN
SCALE 1/2"=1'-0"



2 FRONT BUILDING SECTION
12' X 10' BUILDING SCALE 1/2"=1'-0"



3 REAR BUILDING SECTION
12' X 10' BUILDING SCALE 1/2"=1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @ TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING
CONSULTING | LANDSCAPE ARCHITECTURE
3003 COOLIDGE HWY BERKLEY MI 48072
248-547-7767

PROJECT TITLE
Athens High School
Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Storage Building
Details

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

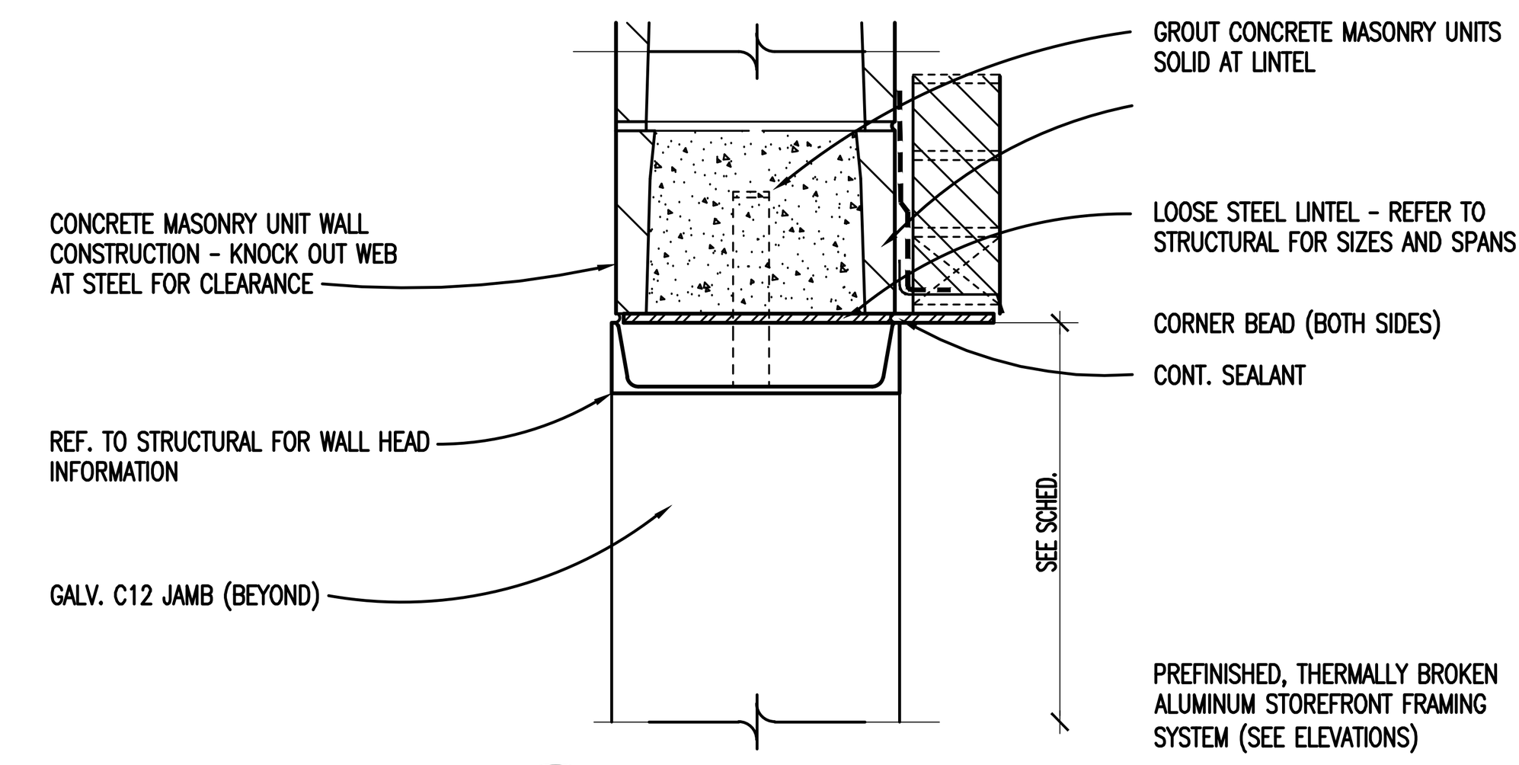
DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

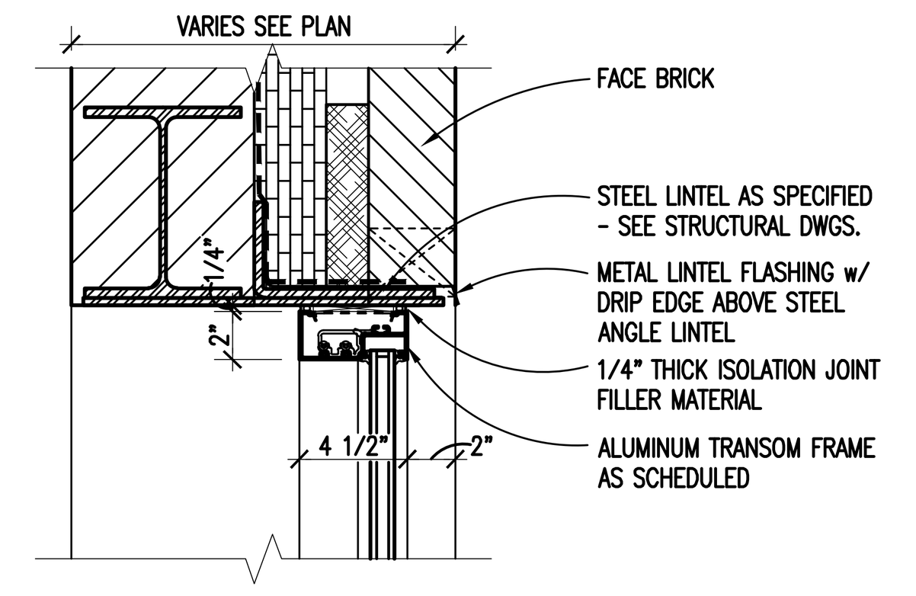
DRAWING NO.
LD1.16

1

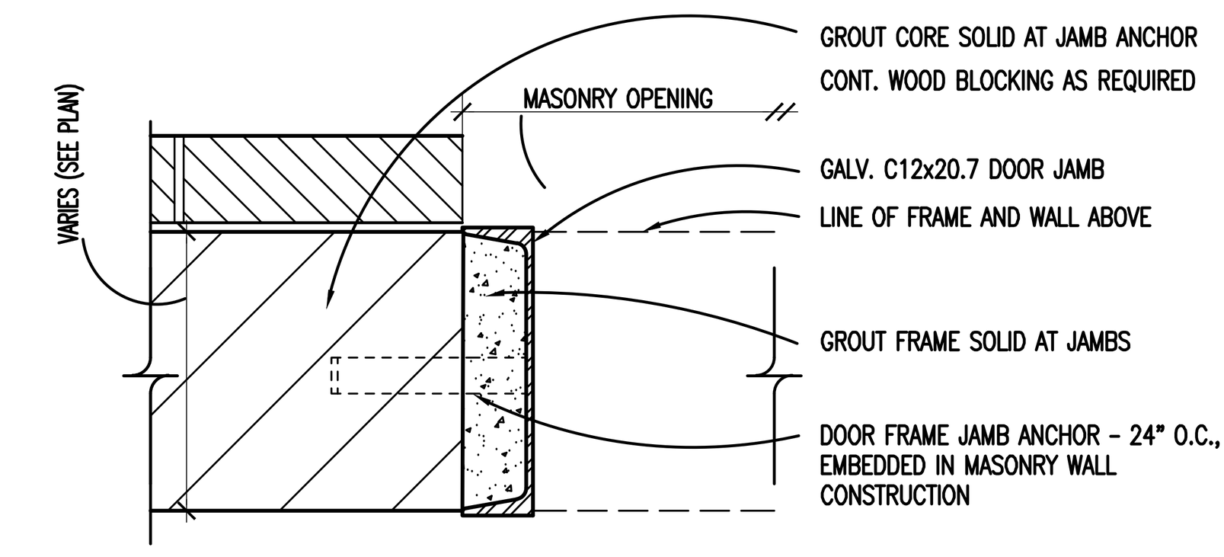
NOTE: NOT ALL DETAILS SHOWN ARE USED. SEE SHEET AD.1 FOR DOOR SCHEDULE ABBREVIATIONS AND NOTES, GLAZING TYPES, DOOR TYPES, AND FRAME TYPES, TYP.



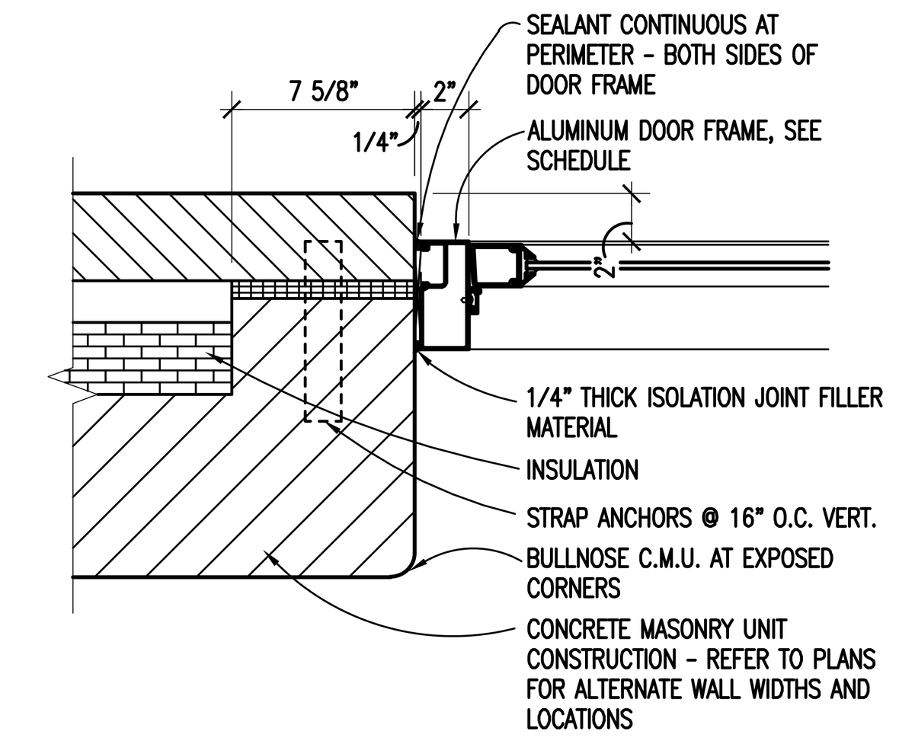
9 / AD.1 OVERHEAD DOOR FRAME HEAD
SCALE: 1 1/2" = 1'-0"



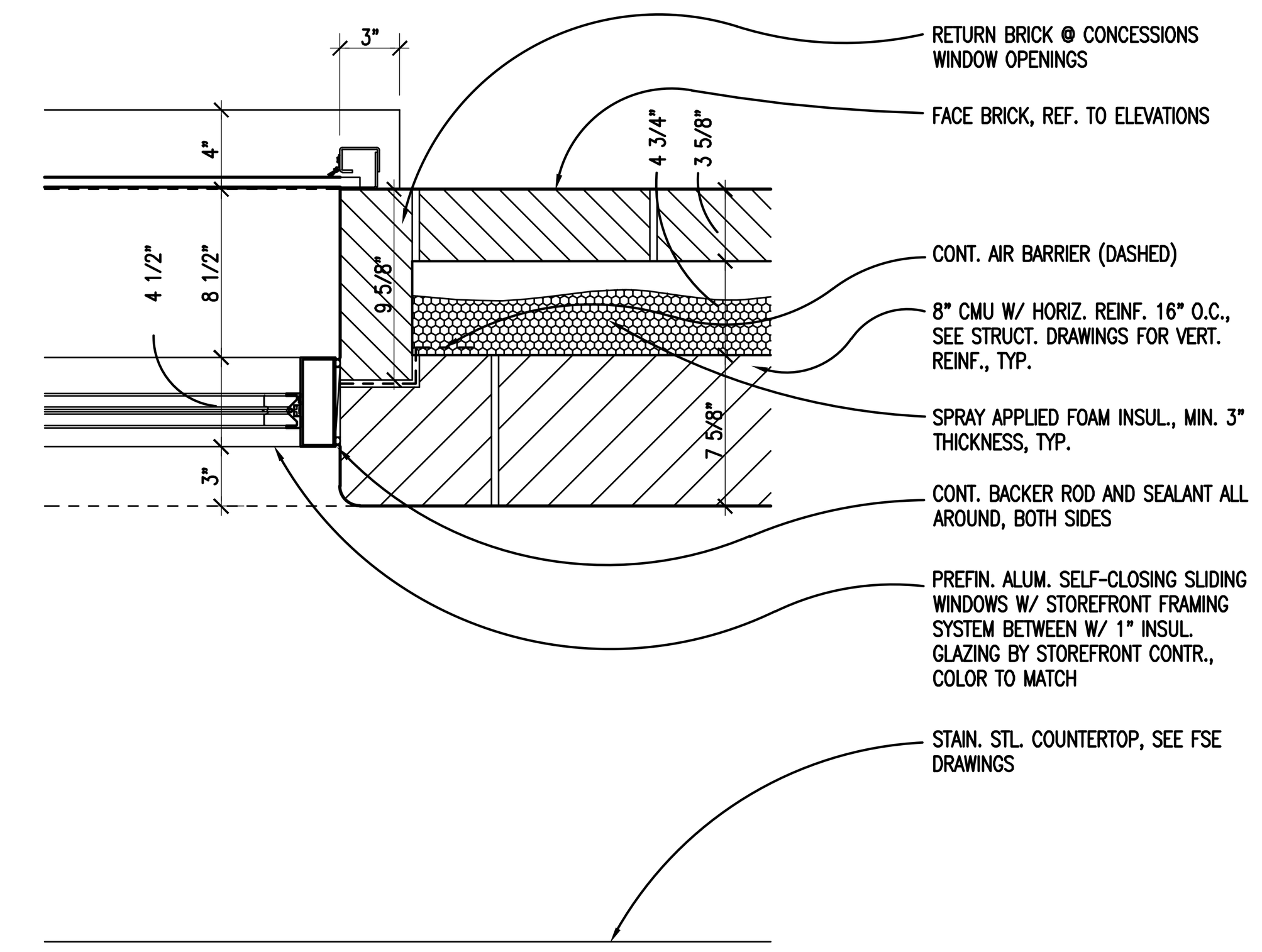
5 / AD.1 ALUMINUM TRANSOM HEAD AT TYPICAL EXTERIOR
SCALE: 1 1/2" = 1'-0"



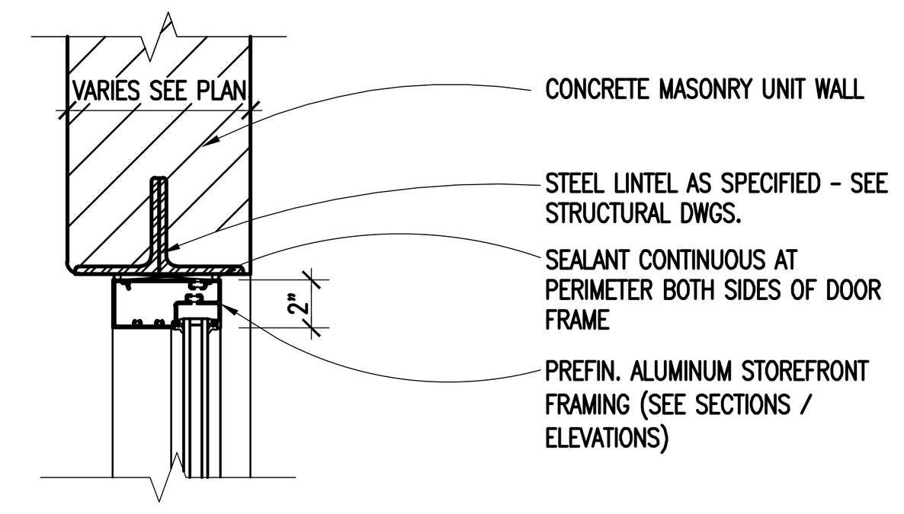
8 / AD.1 OVERHEAD DOOR FRAME JAMB
SCALE: 1 1/2" = 1'-0"



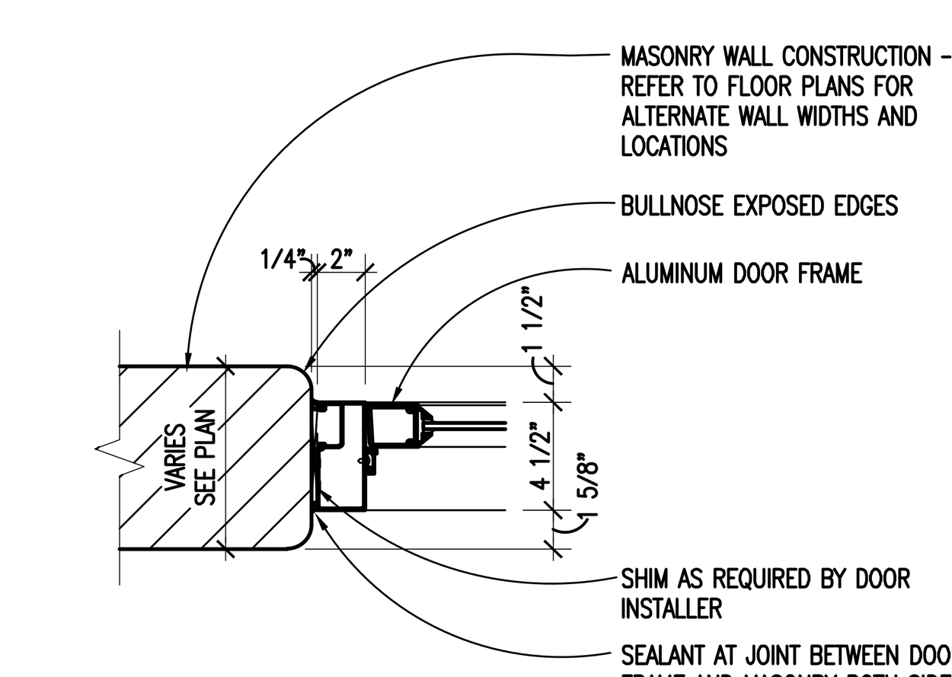
4 / AD.1 ALUMINUM DOOR JAMB AT TYPICAL EXTERIOR
SCALE: 1 1/2" = 1'-0"



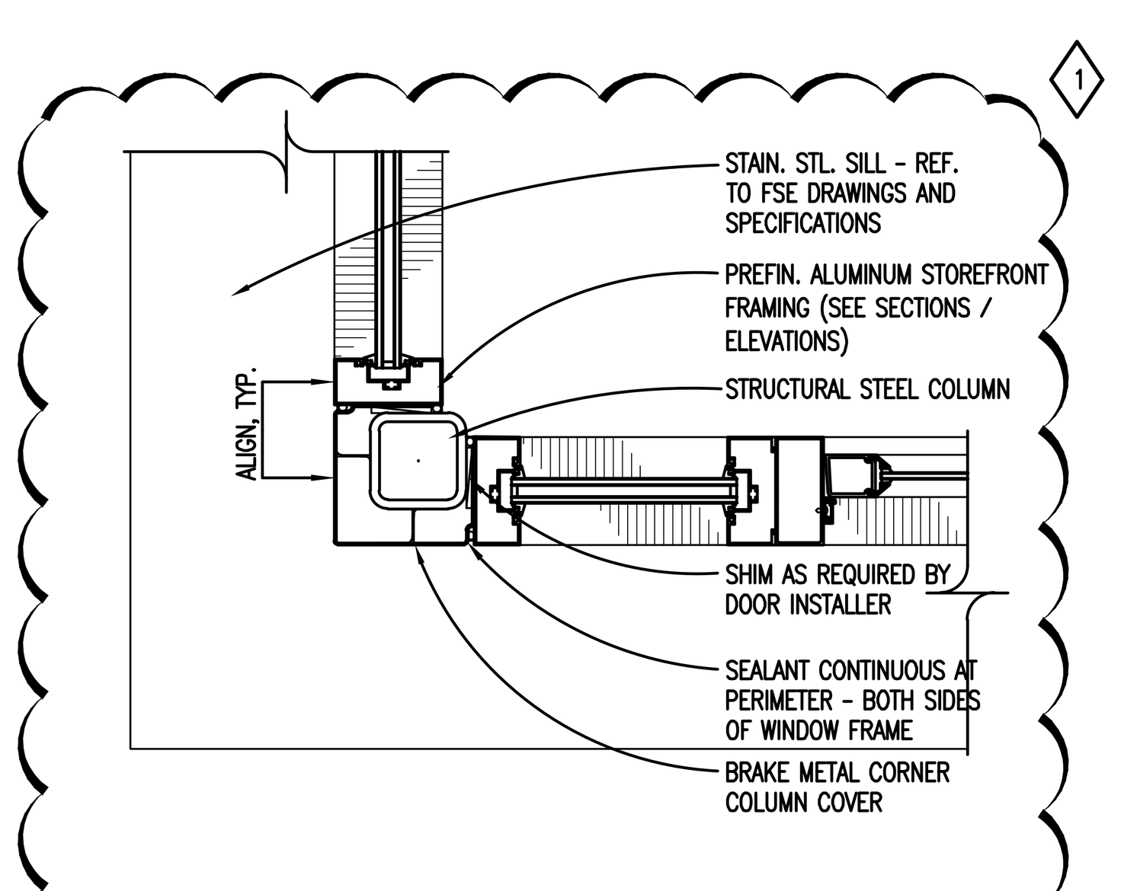
7 / AD.1 CONCESSIONS WINDOW JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



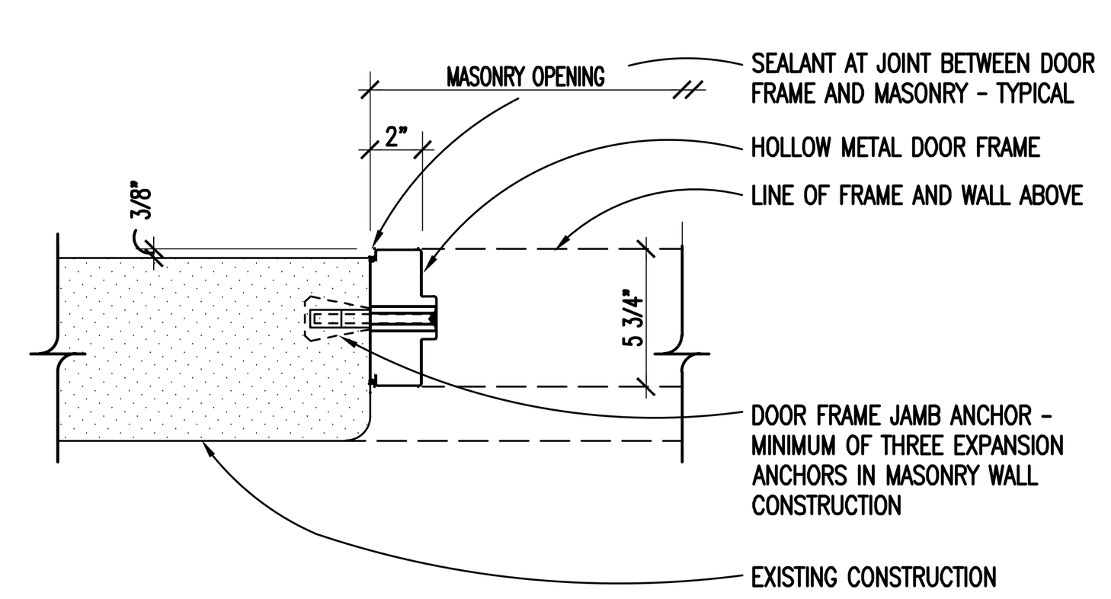
3 / AD.1 ALUMINUM FRAME HEAD AT C.M.U.
SCALE: 1 1/2" = 1'-0"



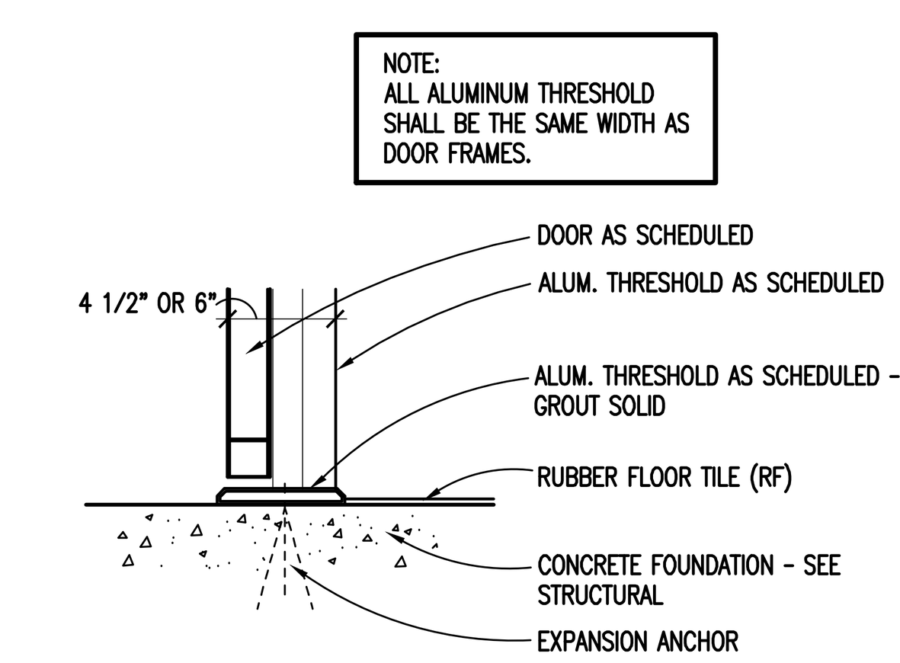
2 / AD.1 ALUMINUM DOOR JAMB AT C.M.U.
SCALE: 1 1/2" = 1'-0"



10 / A1.1 CONCESSIONS CORNER JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



6 / AD.1 HOLLOW METAL DOOR FRAME JAMB
SCALE: 1 1/2" = 1'-0"



1 / AD.1 ALUMINUM THRESHOLD
SCALE: 1 1/2" = 1'-0"

TMP ARCHITECTURE
TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

PROJECT TITLE
Troy High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
THS Concessions Building Door & Frame Details

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	DO
CHECKED	JW
APPROVED	DL

PROJECT NO.
22104E

DRAWING NO.
AD.2

FINISH GENERAL NOTES

1. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.
2. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
3. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES.
4. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
5.. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.

FINISH LEGEND

ROOM TAGS

ROOM NAME AND NUMBER PLUS GENERAL ROOM FINISH INFORMATION.
FINISH TAGS SHALL APPLY TO ALL LIKE MATERIALS WITHIN A ROOM (U.O.N.).

FINISH LEGEND

FINISH LEGEND IS GENERAL. REFER TO SPECIFICATIONS FOR SPECIFIC FINISH INFORMATION. MULTIPLE FINISH TYPES ARE DENOTED BY NUMBER FOLLOWING ABBREVIATION.

CLASSROOM — ROOM NAME
101 — ROOM NUMBER
PT — WALL FINISH (SEE BELOW) — PT-P_ #
RB — BASE (SEE BELOW) — RB #
CPT — FLOOR FINISH (SEE BELOW) — CPT-P_ #

DENOTES PATTERN DETAIL

REFER TO "SPECIFIC NOTES" BELOW

(PL_) — PLASTIC LAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS AND/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.)

WALL FINISH ABBREVIATIONS

EP	EPOXY PAINT
EX	EXISTING (NO NEW FINISH)
PT	PAINT

BASE FINISH ABBREVIATIONS

EX	EXISTING (NO NEW FINISH)
NB	NO BASE, WALL FINISH EXTENDS TO FLOOR
RB	RESILIENT BASE

FLOOR FINISH ABBREVIATIONS

CONC	CONCRETE (UNFINISHED)
CONCD	CONCRETE - DECORATIVE CONCRETE
CONCS	CONCRETE - WITH APPLIED SURFACE SEALER
EX	EXISTING (NO NEW FINISHED)

INTERIOR SIGNAGE

(S) THIS IS AN INTERIOR SIGNAGE IDENTIFICATION, REFER TO SPECIFICATIONS FOR INTERIOR SIGNAGE TYPE AND SCHEDULED INFORMATION

GENERAL NOTES CONTINUED

10. REFER TO STRUCTURAL DRAWINGS FOR ORIENTATION AND SIZES OF ALL STRUCTURAL COLUMNS.
11. REFER TO DRAWING A8.1 FOR TYPICAL DETAILS PERTAINING TO WALL TERMINATIONS AT STRUCTURE ABOVE AND MASONRY CONTROL JOINT DETAILS.
12. VERIFY ALL DIMENSIONS IN FIELD.
13. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC.
14. REFER TO EXTERIOR ELEVATIONS AND PLAN DETAILS FOR LOCATIONS OF CONTROL JOINTS IN EXTERIOR WALLS.

GENERAL NOTES

1. COORDINATE SIZE AND LOCATION OF ALL CONCRETE HOUSEKEEPING PADS AND/OR EQUIPMENT SUPPORTS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
2. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT'S FIELD REPRESENTATIVE.
3. CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.
4. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
5. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL JOINTS, AS SPECIFIED.
6. PROVIDE CONTROL JOINTS WHERE INTERIOR CMU (ON SLAB) ABUTS EXTERIOR/INTERIOR MASONRY (ON FOUNDATIONS OR FOOTINGS).
7. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
8. REFER TO REFLECTED CEILING PLANS FOR EXTENSION OF PARTITION WALLS TO FLOOR OR ROOF CONSTRUCTION ABOVE AND WALL FIRE RESISTANCE RATING REQUIREMENTS.
9. REFER TO STRUCTURAL DRAWINGS FOR ALL WIND FRAME LOCATIONS AT INTERIOR AND EXTERIOR WALLS.

PATCHING NOTES

1. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.
2. FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.
3. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
4. MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.
5. AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.
6. TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER OPENINGS.

ACCESSORIES LEGEND

1. SURFACE MOUNTED, ELECTRIC HAND DRYER
2. SURFACE-MOUNTED, LIQUID SOAP DISPENSER - OWNER PROVIDED AND INSTALLED
3. SURFACE-MOUNTED, TOILET PAPER HOLDER - OWNER PROVIDED AND INSTALLED
4. SURFACE-MOUNTED, SANITARY NAPKIN DISPOSAL UNIT
5. GRAB BAR (42" LONG)
6. GRAB BAR (36" LONG)
7. GRAB BAR (18" TALL - VERTICAL)
8. CHANNEL FRAME MIRROR (24"W x 36" H)
9. MOP HOOK WITH SHELF

GENERAL NOTES

A. MOUNTING HEIGHTS AND POSITIONING SHALL BE AS INDICATED ON GENERAL INFORMATION SHEET (TG.1) U.O.N.

WALL / PARTITION KEY

METAL STUD PARTITION

CONCRETE MASONRY UNIT WALL w/ HORIZONTAL JOINT REINFORCEMENT AT 16" O.C..

WALL / PARTITION LEGEND

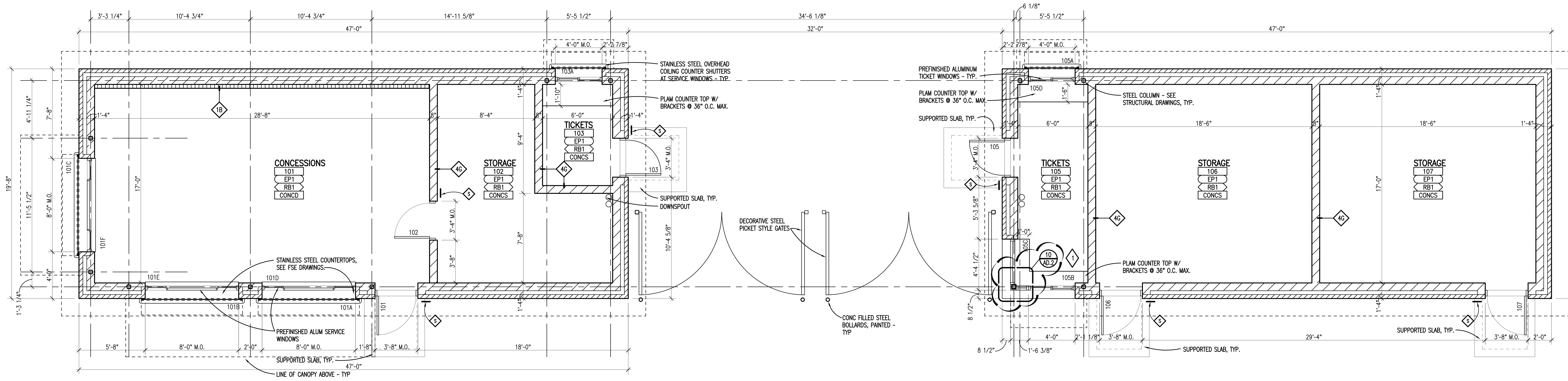
1B — 3 5/8" METAL STUDS AT 16" O.C. (MAX.) WITH 5/8" GYPSUM BOARD ONE SIDE. HEIGHT: FROM FLOOR TO 4" ABOVE CEILING. BRACE TO ADJACENT WALL AS REQUIRED.

4F — 6" NOMINAL CONCRETE MASONRY UNIT. HEIGHT: FROM FLOOR TO UNDERSIDE OF ROOF TRUSSES.

4G — 8" NOMINAL CONCRETE MASONRY UNIT. HEIGHT: FROM FLOOR TO UNDERSIDE OF ROOF TRUSSES.

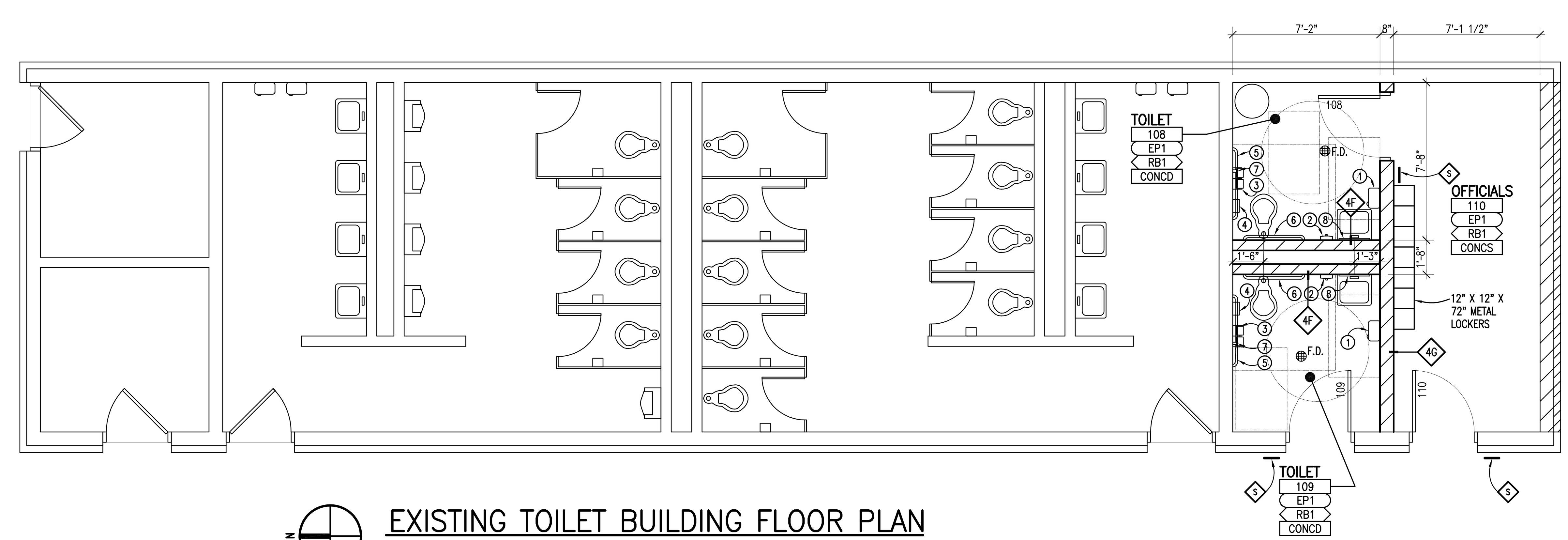
NOTES:

1. COORDINATE WITH THE REFLECTED CEILING PLANS FOR RATED WALLS. DIMENSIONS OF WALLS ARE SHOWN NOMINAL IN PLAN FOR DETERMINING THE CMU THICKNESS.
2. REFER TO MASONRY SPECIFICATION FOR VERTICAL REINFORCEMENT AND WALL BRACING NOT INDICATED ON DRAWINGS.
3. AT FIRE-RATED AND SMOKE-RESISTING WALLS (MASONRY OR GYPSUM BOARD), PROVIDE U.L. APPROVED, FIRE-RATED, HEAD-OF-WALL TERMINATIONS AS INDICATED. IF NOT INDICATED, PROVIDE "BASIS OF DESIGN", HEAD-OF-WALL FIRESTOP JOINT SYSTEM AS INDICATED IN SPECIFICATION SECTION 078446 (1 OR 2 HOUR AS APPROPRIATE). PROVIDE MINIMUM 1 HOUR TERMINATION AT SMOKE-RESISTING WALLS.
4. ALL CMU IS 8" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE.
5. PROVIDE BULLNOSE CMU UNITS AT ALL OUTSIDE CORNERS WHEN CORNERS ARE EXPOSED IN FINAL CONSTRUCTION. DO NOT BULLNOSE CORNERS WHEN ABUTTING CONSTRUCTION (I.E. GYPSUM BOARD) IS INTENDED TO BE FLUSH WITH CMU.



THS CONCESSION BUILDING FLOOR PLAN

SCALE: 1/4" = 1'-0"



EXISTING TOILET BUILDING FLOOR PLAN

SCALE: 1/4" = 1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

Troy High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

THS Concessions Building Floor Plan and Existing Toilet Building Floor Plan

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

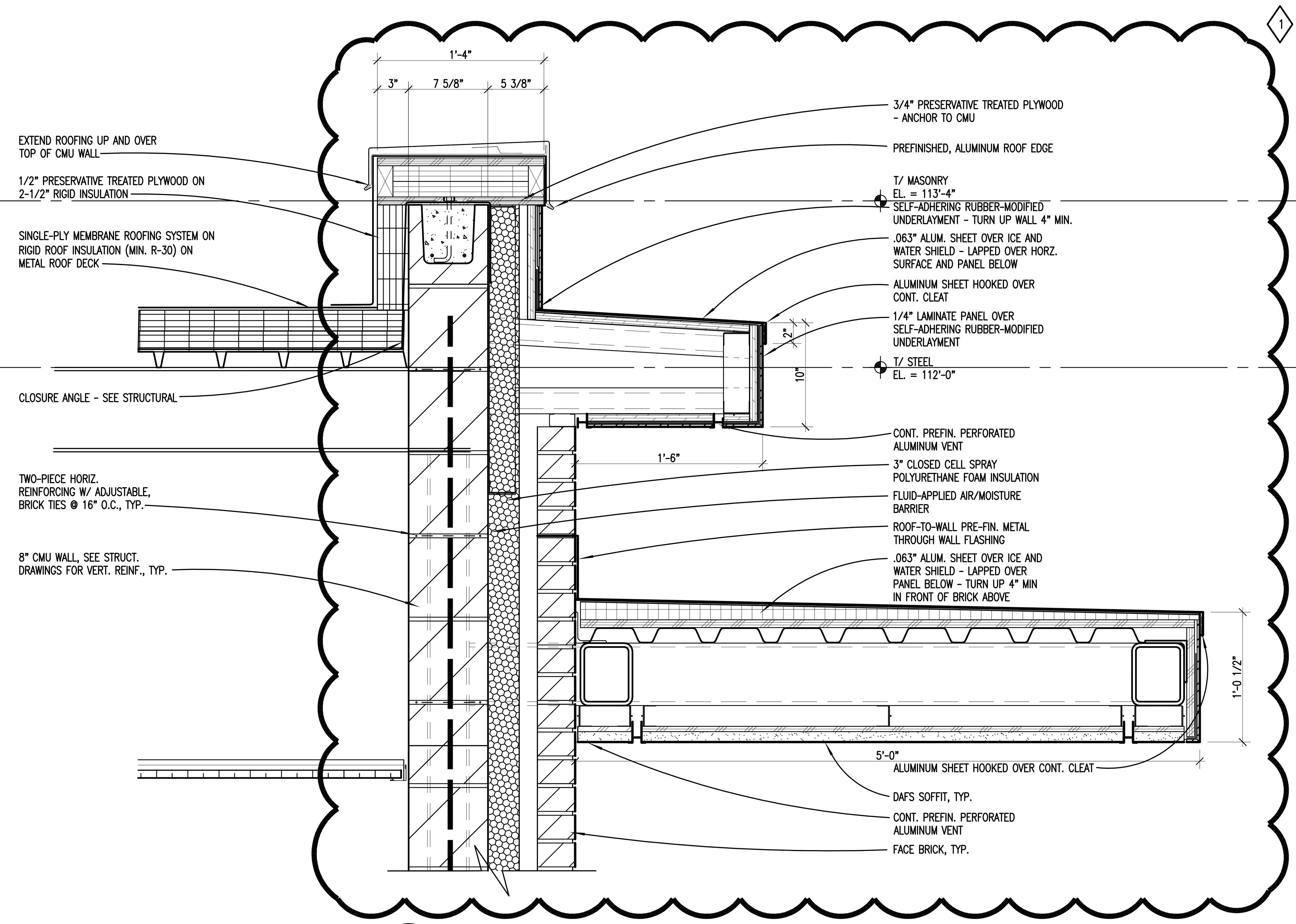
DRAWN	DO
CHECKED	JW
APPROVED	DL

PROJECT NO.

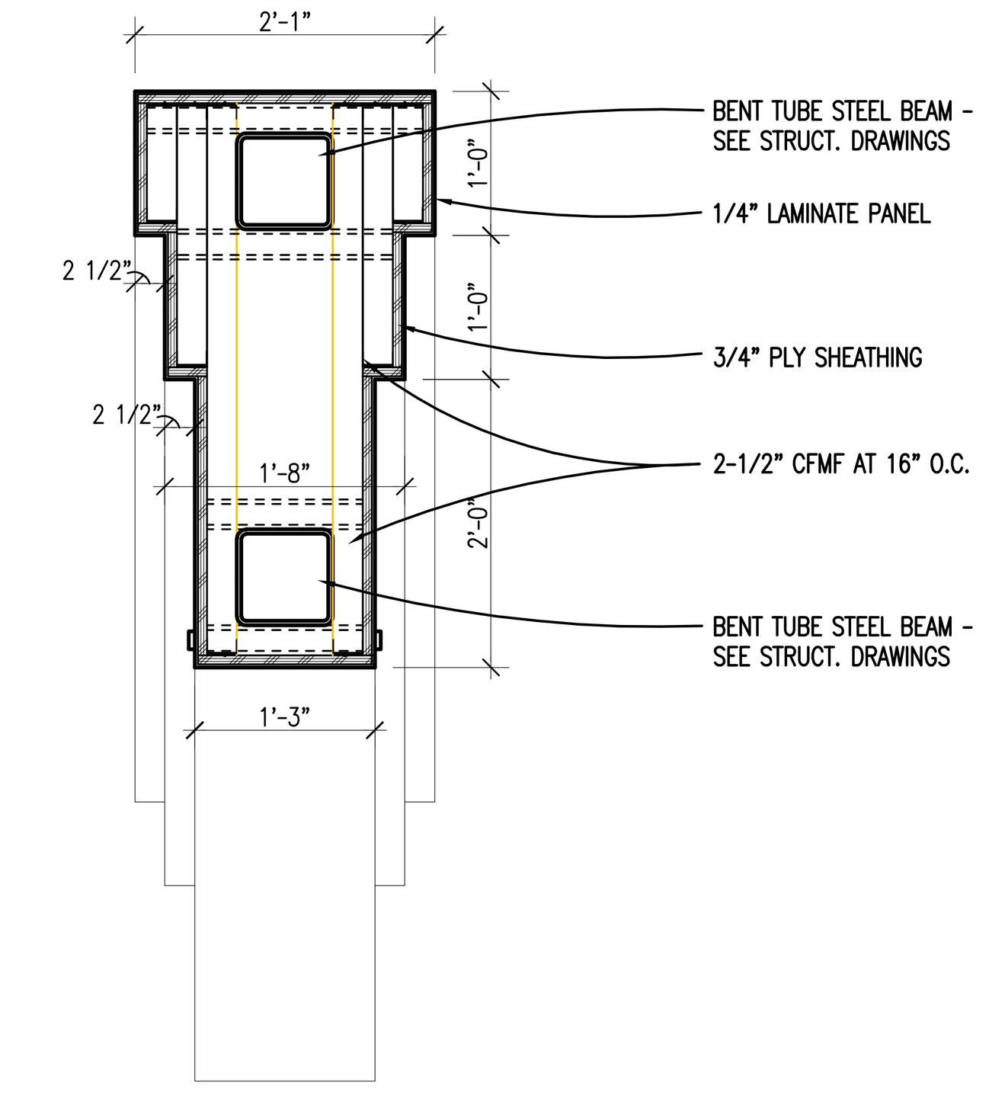
22104E

DRAWING NO.

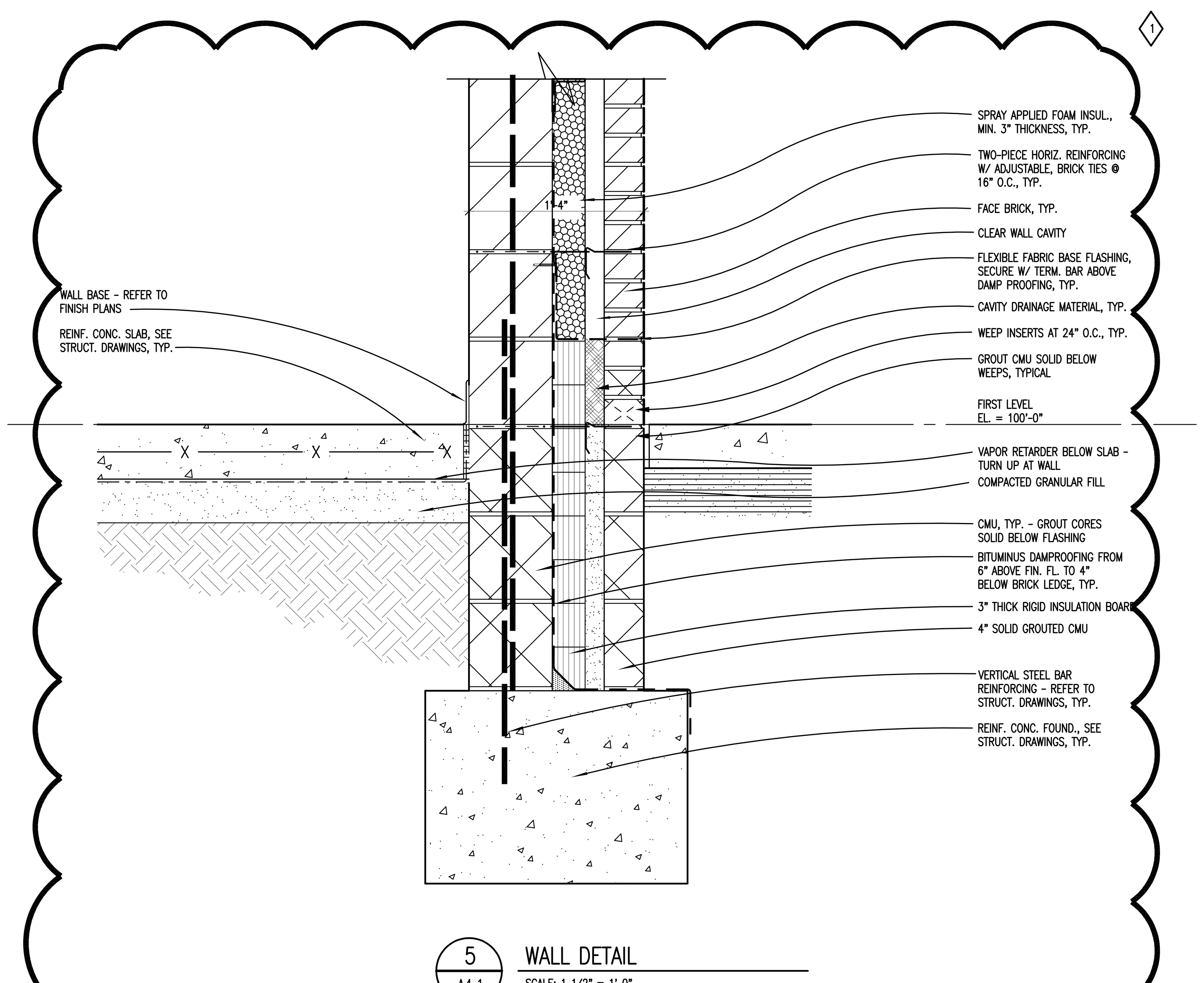
A1.1



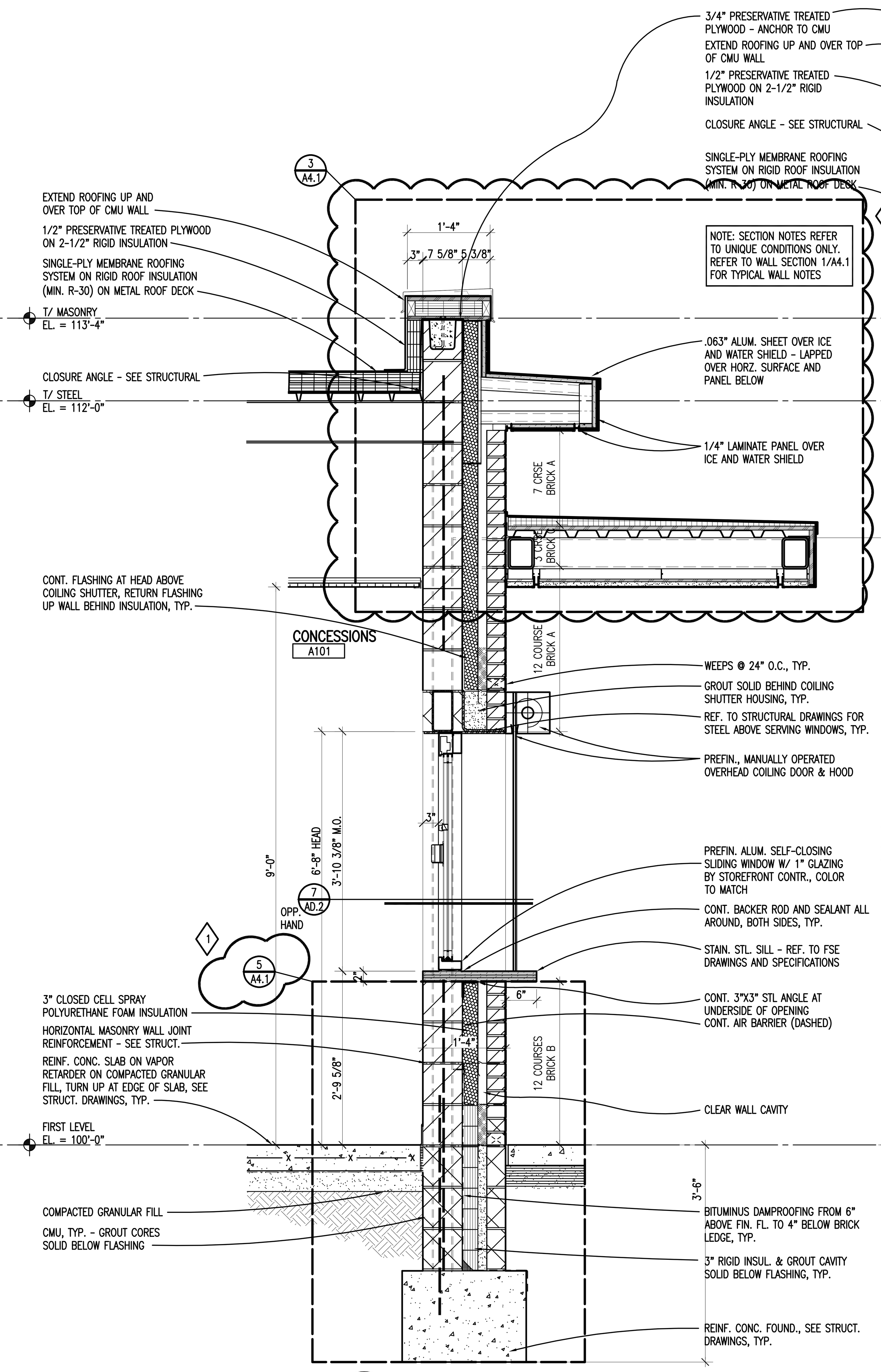
3 ROOF EDGE DETAIL
A4.1
SCALE: 1-1/2" = 1'-0"



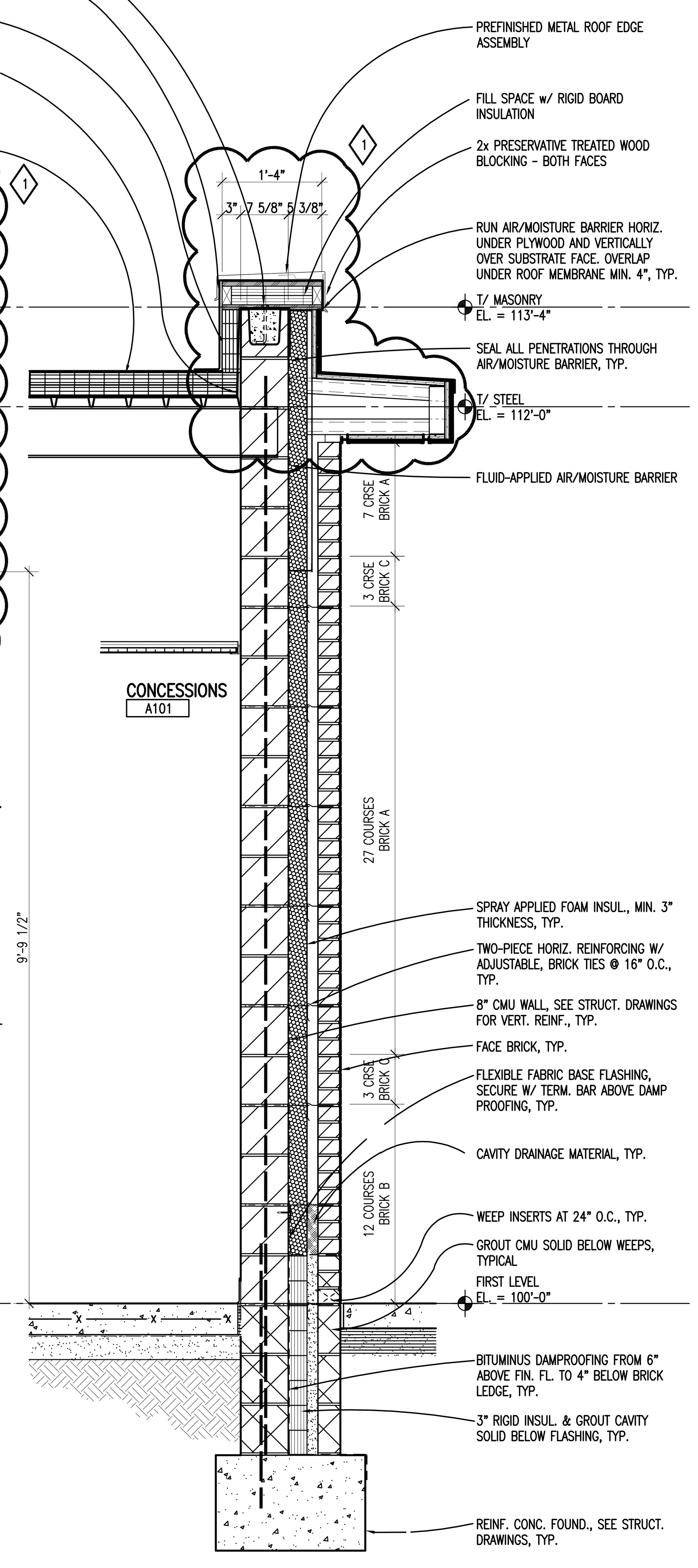
4 SIGN DETAIL
A3.1
SCALE: 3/4" = 1'-0"



5 WALL DETAIL
A4.1
SCALE: 1-1/2" = 1'-0"



2 WALL SECTION
A3.1
SCALE: 3/4" = 1'-0"



1 WALL SECTION
A3.1
SCALE: 3/4" = 1'-0"

TMP ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

Troy High School Athletic Fields
Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

THS Stadium Entrance Details

ISSUE DATES

DATE:	ISSUED FOR:
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	DO
CHECKED	JW
APPROVED	DL

PROJECT NO.
22104E

DRAWING NO.
A4.1

Barton Malow

MEETING SIGN-IN SHEET

DATE: 1/8/2025 **PROJECT:** BP#2B TROY ATHLETICS RENOVATIONS PHASE #2

TIME: 10:00AM

LOCATION: ATHENS HIGH SCHOOL/TROY HIGH SCHOOL **SUBJECT:** PRE-BID MEETING

ATTENDEES (Please print legibly)	COMPANY	CATEGORY BIDDING	TELEPHONE	E-MAIL ADDRESS
Justin Sherman	Barton Malow Builders			
Jon Johnson	Barton Malow Builders			
Adam Lewis	Barton Malow Builders			
John Girardot	Nagle Paving			johng@naglepaving.com
Matt Webb	Ainsworth Mechanical			Matthew.webb@ainsworth.com
Austin Moore	Nationwide Construction Group			amoore@nationwidecos.com
Todd Underhill	Innovated Energy Controls			tunderhill@ieccompany.com
Travis Guaresimo	Santoro Services			travis@detroitsnow.net
Jacob Steller	Simone			jacob@simonecompanies.com
Rob Johnson	Cortis Brothers			rob@cortisbros.com