

ADDENDUM NO. 2

DATE OF ISSUANCE:	February 20, 2020
PROJECT:	Wayland High School Stadium Improvements 850 East Superior St. Wayland, MI 49348
OWNER:	Wayland Union Schools
ARCHITECT'S PROJECT NO.:	20-112.00
ORIGINAL BID ISSUE DATE:	February 6, 2020

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes 2 pages of text and the following documents:

- Bidding Documents: None
- Contract Conditions: None
- Specification Sections: 01 2300 Alternates, 22 1113 Facility Water Distribution
- Drawings: C 002, C 004, C 005, C 006

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None

CHANGES TO CONTRACT CONDITIONS

None

CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - Alternates

Refer to attached specification section 01 2300 Alternates for Alternate #6 - Facility Water Distribution Piping

ADD-1 Item No. S-2 - Facility Water Distribution Piping

Refer to attached specification section 22 113 for Facility Water Distribution Piping [Alternate #6]

CHANGES TO DRAWINGS

ADD-1 Item No. D-1 - Existing Storm Structures

Refer to Sheet(s): C 002 Site Removals

Revised sheet C 002 to add notes regarding existing storm sewers and structures removals

ADD-1 Item No. D-2 - Facility Water Distribution Piping

Refer to Sheet(s): C 004

Added on field water supply to 2 locations [Alternate #6]

ADD-1 Item No. D-3 - Field Layout and Graphics

Refer to Sheet(s): C 005

Added notes from previously issued field layout drawing

ADD-1 Item No. D-4 - Details

Refer to Sheet(s): Formerly Sheet C 007, Now Revised Sheet C 006

Revised field goal detail and track crossing detail

ADD-1 Item No. D-5 - Removed Sheet C 006 from the set

C 006 was redundant any necessary notes were added to Sheet C 005.

END OF ADDENDUM.

SECTION 01 2300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - EXECUTION

2.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1 - Extended Warranty.
 - 1. Base Bid: Base bid warranty shall be 8 years as called out in specification section 32 1813. If alternate no. 1 is accepted provide 10 year warranty.
- B. Alternate No 2: No Shock Attenuation Pad.
 - 1. Provide base bid shock attenuation pad as indicated in specification section 32 1813. If alternate no. 2 is accepted, omit the shock attenuation pad indicated as base bid.

- C. Alternate No 3: Shock Attenuation Pad - 8mm Thick:
 - 1. Provide base bid shock attenuation pad as indicated in specification section 32 1813. If alternate no. 3 is accepted provide 8mm thick shock attenuation pad in lieu of base bid.

- D. Alternate No 4: Shock Attenuation Pad - 10mm Thick:
 - 1. Provide base bid shock attenuation pad as indicated in specification section 32 1813. If alternate no. 4 is accepted provide 10mm thick shock attenuation pad in lieu of base bid.

- E. Alternate No 5: Shock Attenuation Pad - 12mm Thick:
 - 1. Provide base bid shock attenuation pad as indicated in specification section 32 1813. If alternate no. 5 is accepted provide 12mm thick shock attenuation pad in lieu of base bid.

- F. Alternate No 6: Facility Water Distribution to Track / Field Area:
 - 1. Base bid does not include the Facility Water Distribution to the Track / Field Area. If alternate no. 6 is accepted provide water as shown on drawings and specifications.

END OF SECTION 01 2300

SECTION 22 1113 - FACILITY WATER DISTRIBUTION PIPING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes:
 - 1. Water distribution piping

1.2 Related Specification Sections

- A. Section 01 2300 Alternates.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Detail vault assemblies and indicate dimensions, method of field assembly, and components.

1.4 INFORMATIONAL SUBMITTALS

- A. Field quality-control test reports.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.6 QUALITY ASSURANCE

- A. Piping materials shall bear label, stamp, or other markings of specified testing agency.
- B. NSF Compliance:
 - 1. Comply with NSF 14 for plastic potable-water-service piping. [Include marking "NSF-pw" on piping.]
 - 2. Comply with NSF 61 Annex G for materials for water-service piping and specialties for domestic water.

1.7 PROJECT CONDITIONS

- A. Interruption of Existing Water-Distribution Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions:

1. Notify Architect, Construction Manager, and Owner no fewer than two days in advance of proposed interruption of service.
2. Do not proceed with interruption of water-distribution service without Architect, Construction Manager, and Owner permission.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

- A. Soft Copper Tube: ASTM B 88, Type K (ASTM B 88M, Type A) and ASTM B 88, Type L (ASTM B 88M, Type B), water tube, annealed temper.
 1. Copper, Solder-Joint Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper, solder-joint pressure type. Furnish only wrought-copper fittings if indicated.
- B. Hard Copper Tube: ASTM B 88, Type K (ASTM B 88M, Type A) and ASTM B 88, Type L (ASTM B 88M, Type B), water tube, drawn temper.
 1. Copper, Solder-Joint Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper, solder-joint pressure type. Furnish only wrought-copper fittings if indicated.
- C. PEX Tube: PEX plastic according to ASTM 876.
 1. PEX, engineered polymer (EP) or lead-free (LF) brass cold expansion fittings with PEX reinforcing rings.

2.2 JOINING MATERIALS

- A. Per manufacturer's specifications.

PART 3 - EXECUTION

3.1 EARTHWORK

- A. Refer to Section 31 2000 "Earth Moving" for excavating, trenching, and backfilling.

3.2 PIPING APPLICATIONS

- A. General: Use pipe, fittings, and joining methods for piping systems according to the following applications.
- B. Transition couplings and special fittings with pressure ratings at least equal to piping pressure rating may be used, unless otherwise indicated.
- C. Do not use flanges or unions for underground piping.

- D. Flanges, unions, and special fittings may be used, instead of joints indicated, on aboveground piping and piping in vaults.

3.3 PIPING INSTALLATION

- A. Install Copper Tubing according to CDA's "Copper Tubing Handbook".
- B. Install PE pipe according to manufacturer's recommendations.
- C. Bury piping with depth of cover over top at least 42 inches.
- D. Install underground piping with restrained joints at horizontal and vertical changes in direction. Use restrained-joint piping, clamps, and other supports.

3.4 CONNECTIONS

- A. Connect water-distribution piping to existing water lines.
- B. Connect water-distribution piping to interior domestic water.

3.5 FIELD QUALITY CONTROL

- A. Piping Tests: Conduct piping tests before joints are covered. Fill pipeline 24 hours before testing and apply test pressure to stabilize system. Use only potable water.
- B. Hydrostatic Tests: Test at not less than one-and-one-half times working pressure for two hours.
 - 1. Increase pressure in 50-psig (350-kPa) increments and inspect each joint between increments. Hold at test pressure for 1 hour; decrease to 0 psig (0 kPa). Slowly increase again to test pressure and hold for 1 more hour. Maximum allowable leakage is 2 quarts (1.89 L) per hour per 100 joints. Remake leaking joints with new materials and repeat test until leakage is within allowed limits.
- C. Prepare reports of testing activities.

3.6 IDENTIFICATION

- A. Install continuous underground detectable warning tape during backfilling of trench for underground water-distribution piping. Locate below finished grade, directly over piping. Underground warning tapes are specified in Section 31 2000 "Earth Moving."

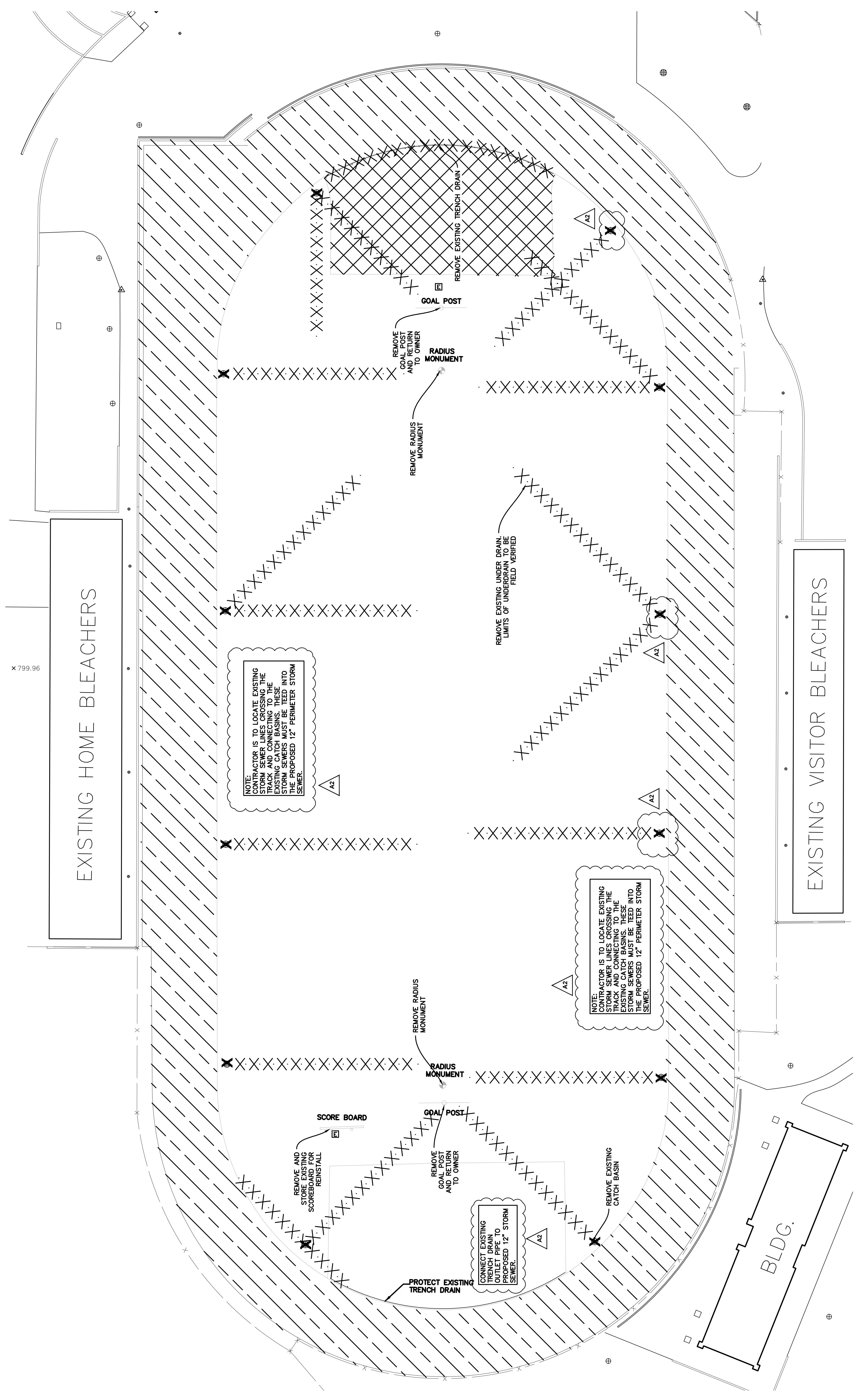
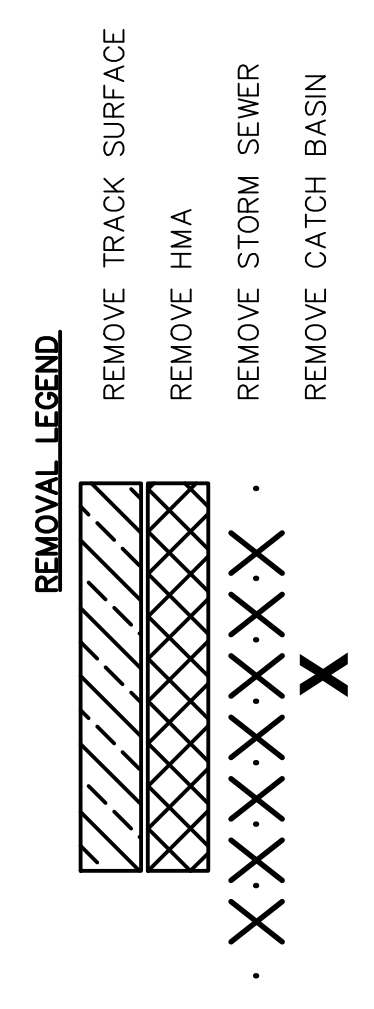
3.7 CLEANING

- A. Clean and disinfect water-distribution piping as follows:
 - 1. Purge new water-distribution piping systems and parts of existing systems that have been altered, extended, or repaired before use.

2. Use purging and disinfecting procedure described in NFPA 24 for flushing of piping. Flush piping system with clean, potable water until dirty water does not appear at points of outlet.
 3. Use purging and disinfecting procedure described in AWWA C651 or do as follows:
 - a. Fill system or part of system with water/chlorine solution containing at least 50 ppm of chlorine; isolate and allow to stand for 24 hours.
 - b. Drain system or part of system of previous solution and refill with water/chlorine solution containing at least 200 ppm of chlorine; isolate and allow to stand for 3 hours.
 - c. After standing time, flush system with clean, potable water until no chlorine remains in water coming from system.
 - d. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedure if biological examination shows evidence of contamination.
- B. Prepare reports of purging and disinfecting activities.

END OF SECTION 22 1113

- GENERAL DEMOLITION NOTES:**
1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
 2. THE CONTRACTOR SHALL CALL MGS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
 3. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BITUMEN, ASPHALT, GROUND SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, SIGNAGE, UTILITIES, AND/OR OTHER STRUCTURES TO PREPARE THE SITE FOR IMPROVEMENTS. CASTINGS, VALVE BOXES AND/OR OTHER UTILITIES STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
 4. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH ACT 481 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
 5. ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
 6. THE CONTRACTOR SHALL CLEAN PUBLIC STREETS DAILY OF ANY DIRT AND/OR DEBRIS FROM CONSTRUCTION SITE.
 7. SAWDUST TRACK EDGE PRIOR TO THE PLACEMENT OF 6" CONCRETE RIBBON.



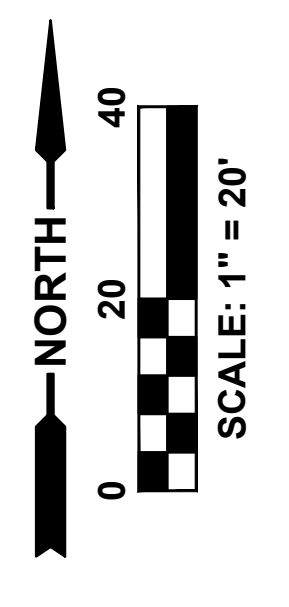
NOTE: CONTRACTOR IS TO LOCATE EXISTING STORM SEWER LINES CROSSING THE EXISTING CATCH BASINS. THESE STORM SEWERS MUST BE TIED INTO THE PROPOSED 12" PERIMETER STORM SEWER.

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CONNECT EXISTING TRENCH DRAIN TO PROPOSED 12" STORM SEWER.

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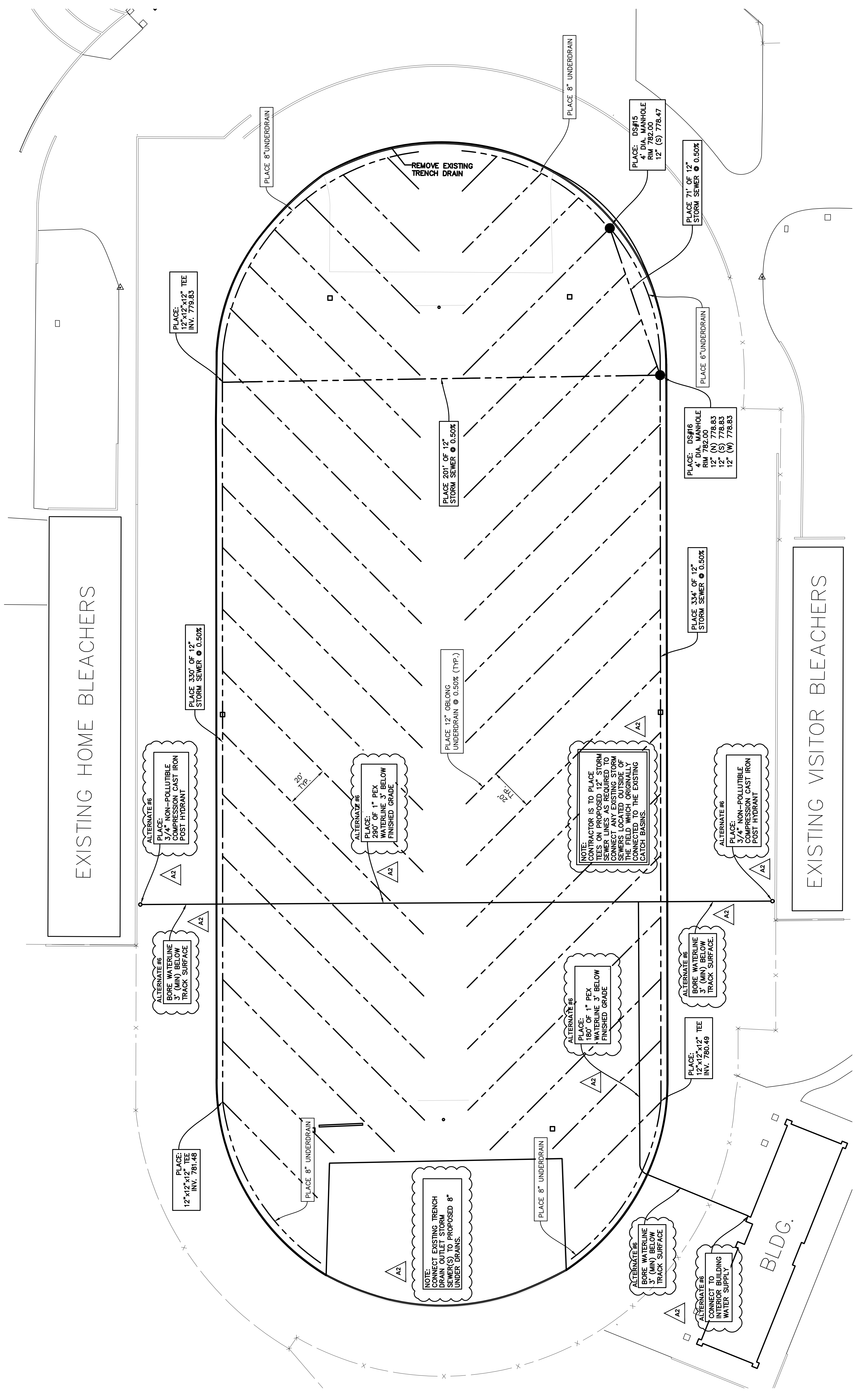
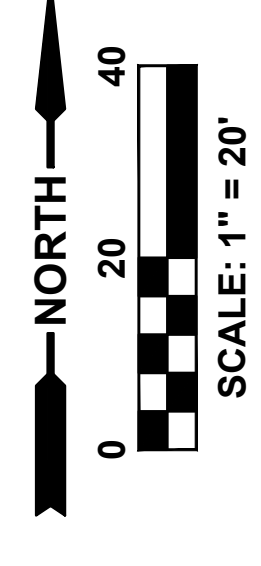


- UTILITY PLAN - GENERAL NOTES:**
1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
 2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
 3. ALL 12" STORM SEWER PIPE SHALL BE PERFORATED DUAL WALL POLYETHYLENE GLASS FIBER REINFORCED PIPE UNLESS OTHERWISE SPECIFIED.
 4. ALL 8" AND 6" STORM SEWER PIPE SHALL BE PERFORATED ADS N-12 PLASTIC PIPE WITH SOCK UNLESS OTHERWISE SPECIFIED.
 5. ALL CATCH BASINS AND MANHOLES SHALL BE MINIMUM 2' DIAMETER PRECAST CONCRETE UNLESS NOTED OTHERWISE.

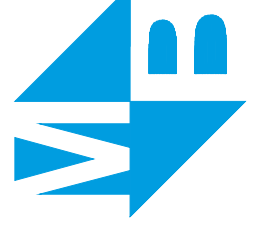
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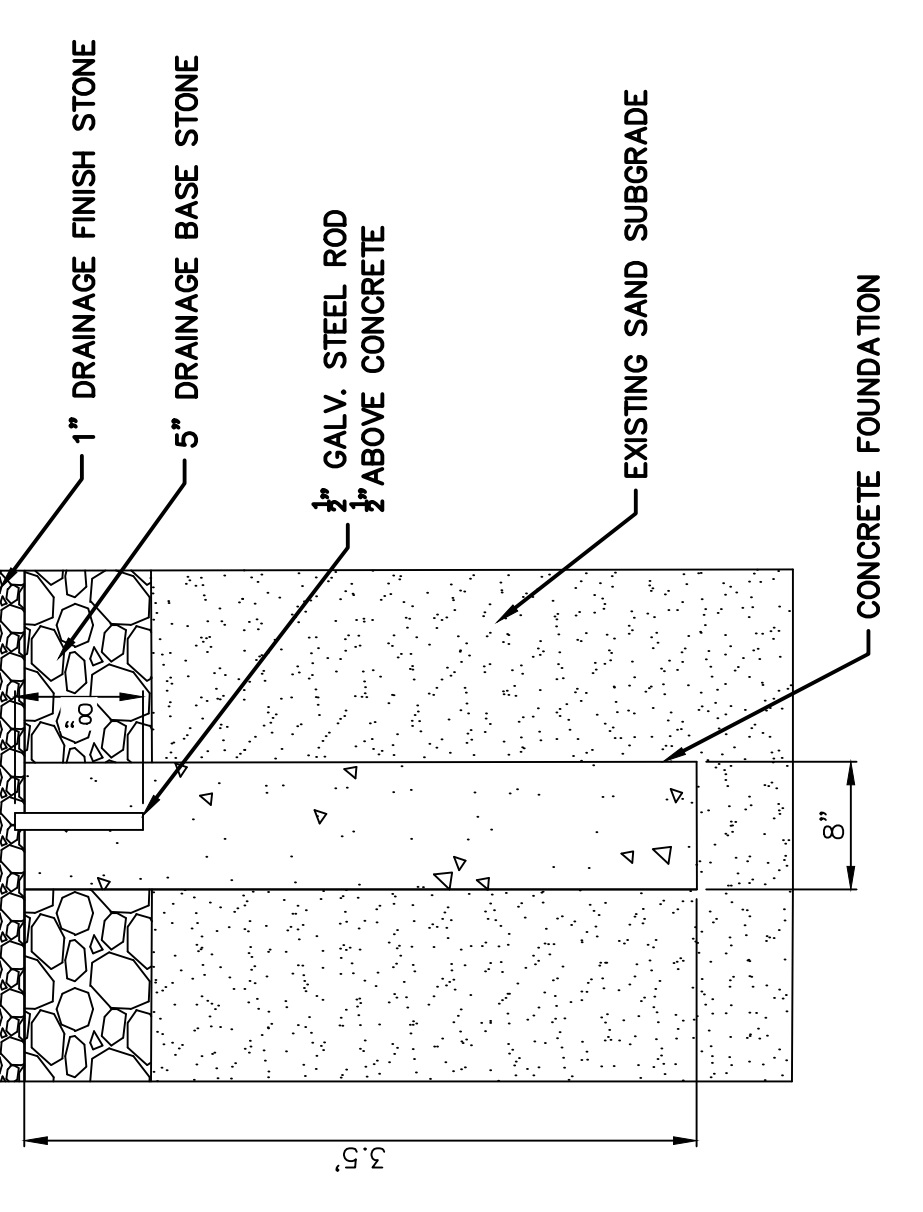


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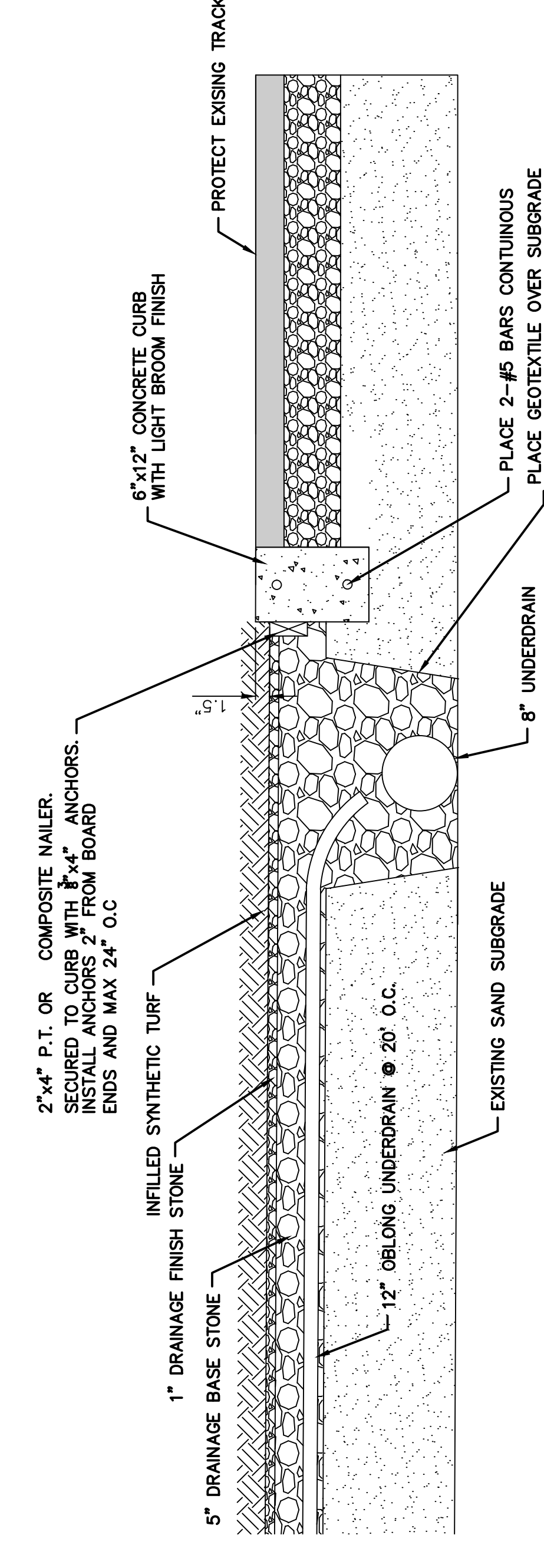


SCALE: 1" = 20'
NORTH

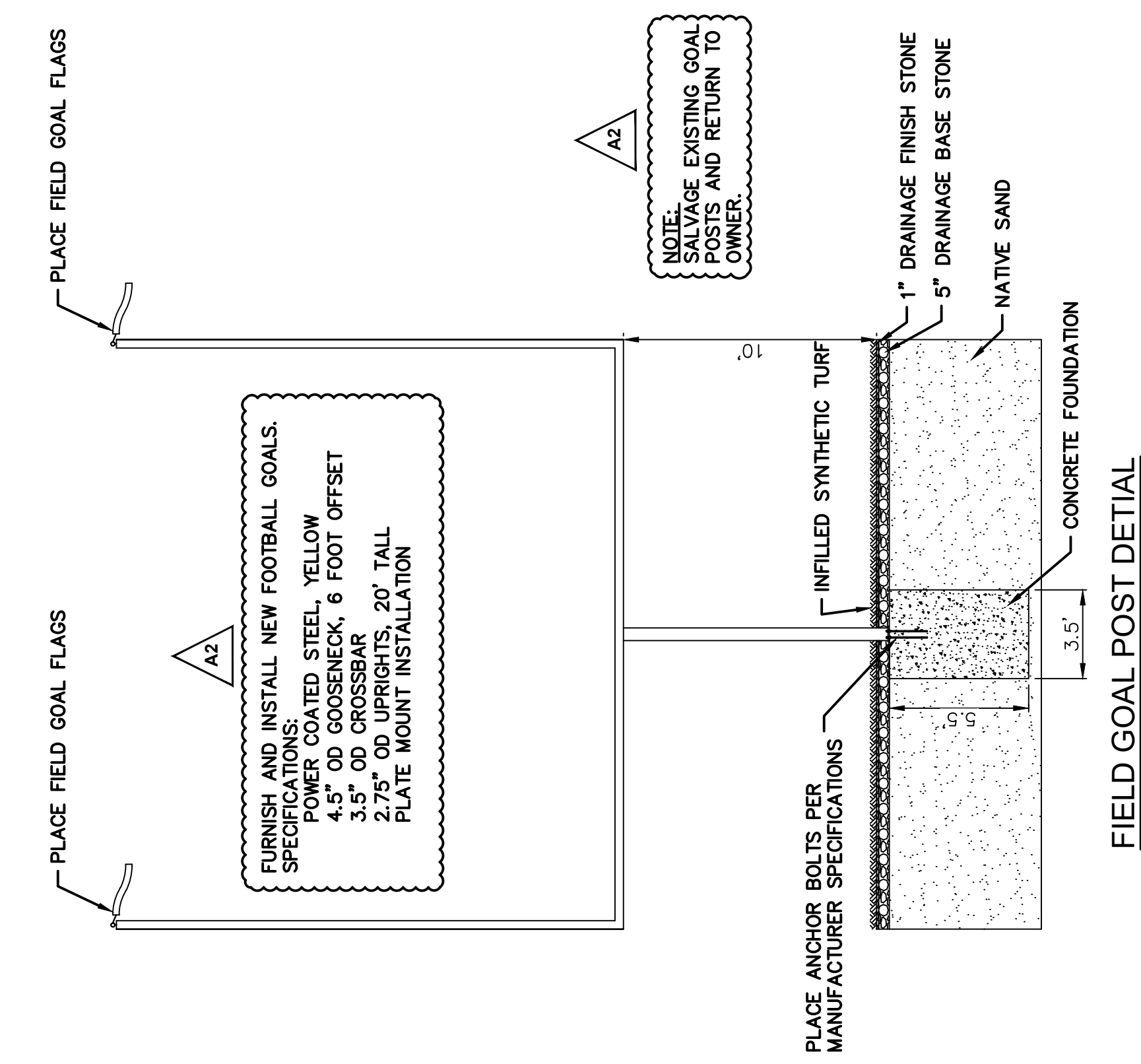




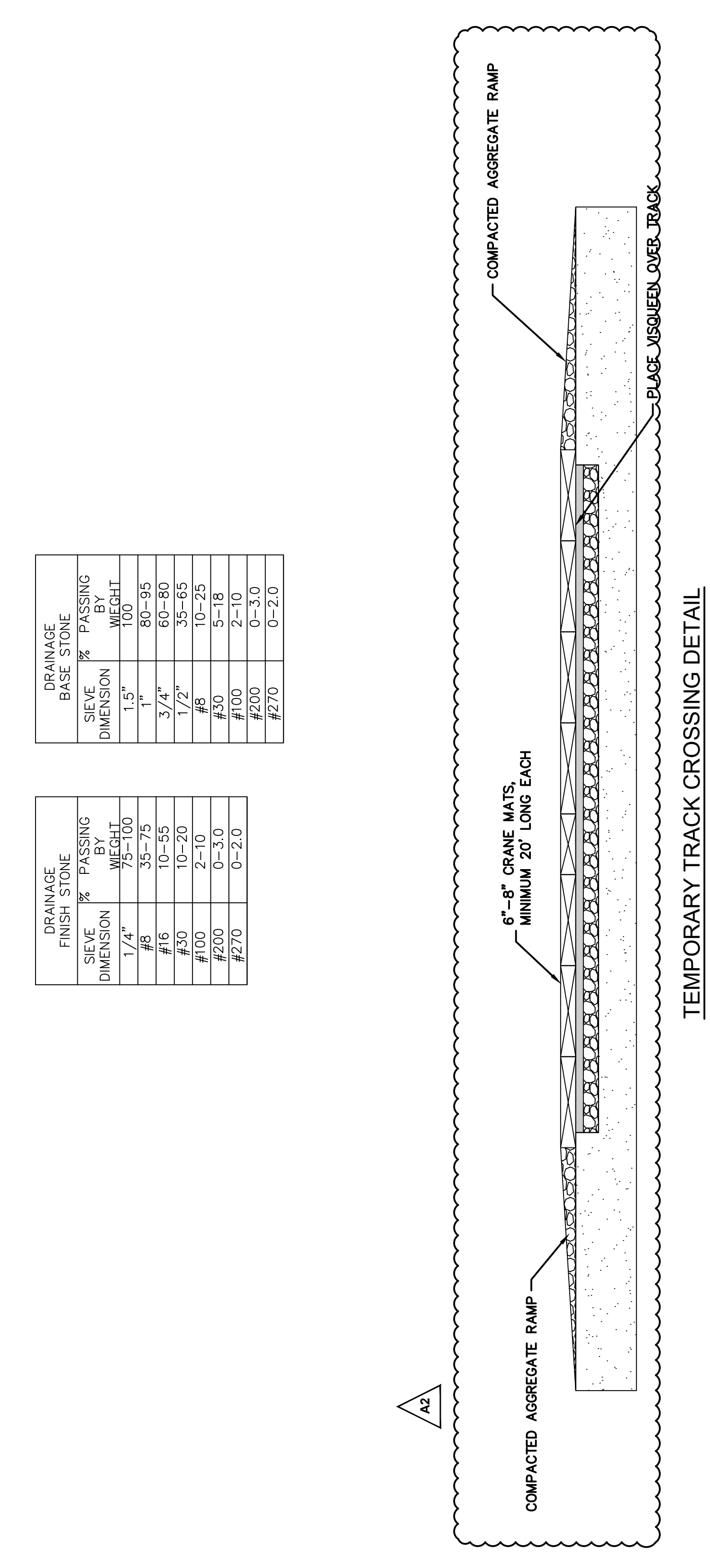
RADIUS POINT MONUMENTS



TYPICAL CROSS SECTION



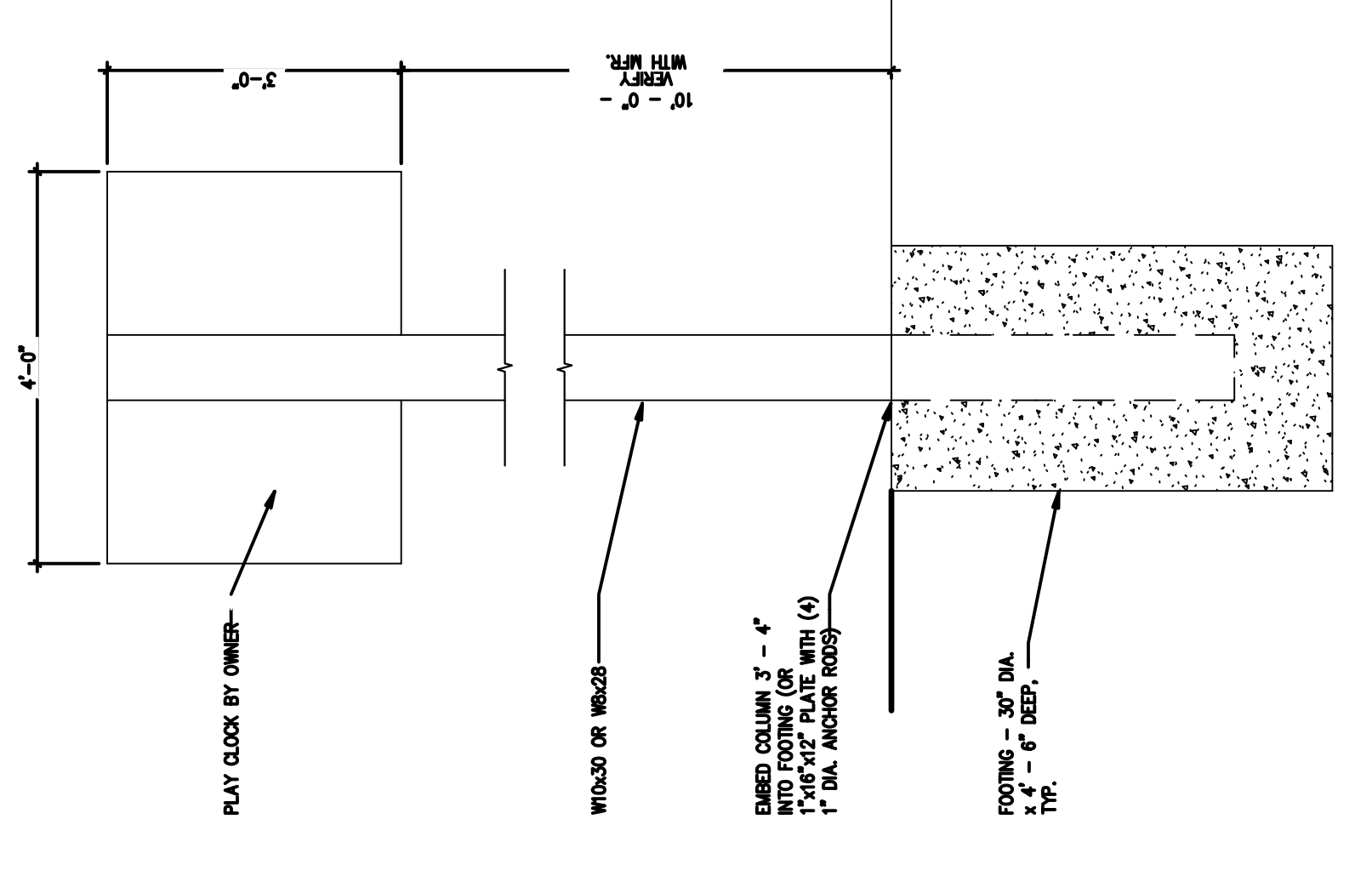
FIELD GOAL POST DETAIL



TEMPORARY TRACK CROSSING DETAIL

DRAINAGE FINISH STONE	
SEIVE DIMENSION	% PASSING BY WEIGHT
#4	100
#8	95
#16	85
#30	70
#60	55
#100	40
#200	25
#425	10
#750	5
#1060	0

DRAINAGE BASE STONE	
SEIVE DIMENSION	% PASSING BY WEIGHT
#4	100
#8	95
#16	85
#30	70
#60	55
#100	40
#200	25
#425	10
#750	5
#1060	0



FOOTBALL SCORE BOARD FOUNDATION/SUPPORTS

OWNER
 WAYLAND UNION SCHOOLS
 WAYLAND, MICHIGAN
 DATE
 FEBRUARY 6, 2020
 SHEET NUMBER
 C 006
 20-112.00

PROJECT TITLE
 WAYLAND HIGH SCHOOL STADIUM IMPROVEMENTS

ISSUED FOR
 ADDENDUM #
 DATE
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