

# HAMILTON COUNTY SCHOOLS HOWARD HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION

HAMILTON COUNTY, TN



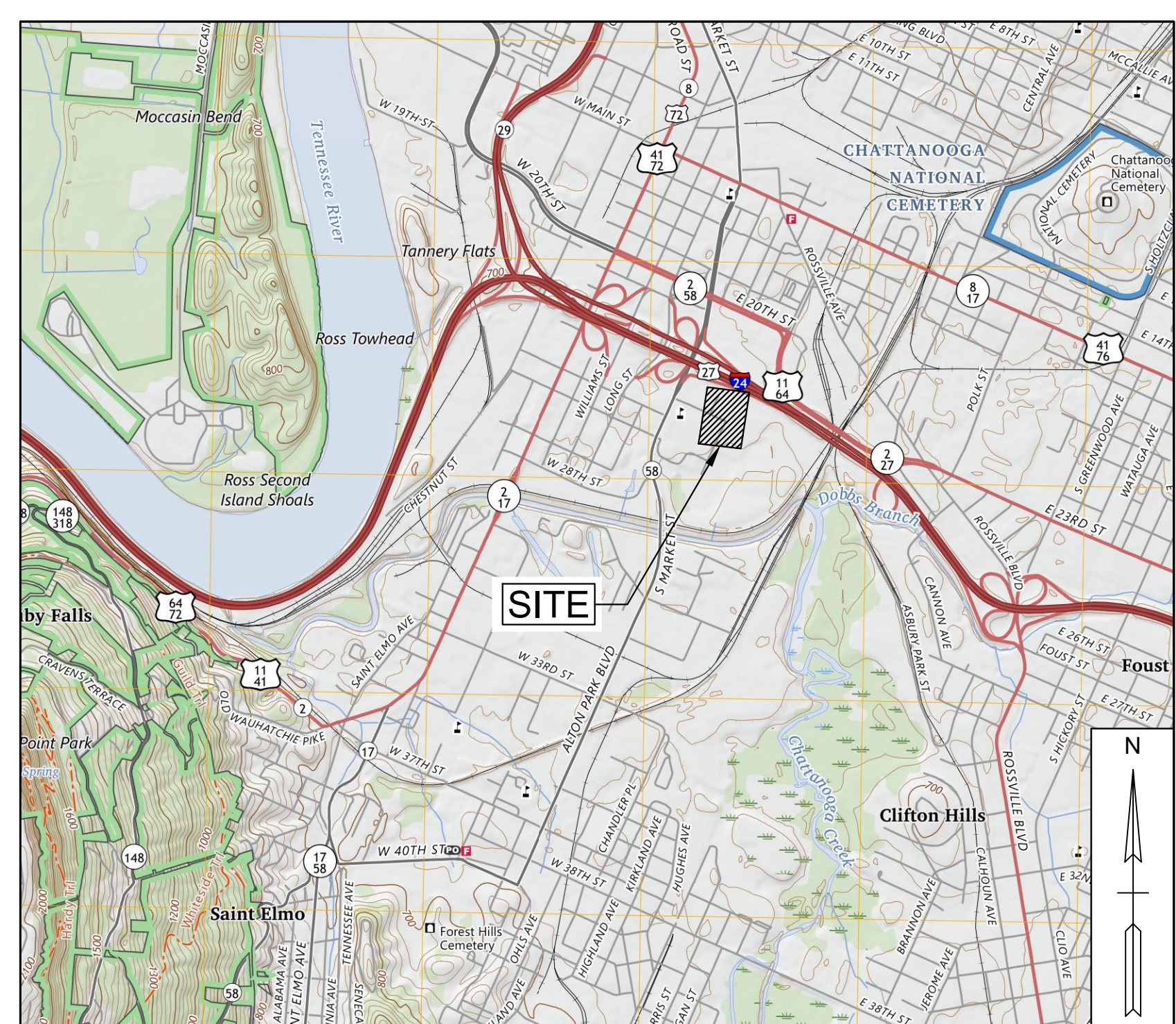
## CONTACTS

**OWNER**  
HAMILTON COUNTY SCHOOLS  
3074 HICKORY VALLEY ROAD  
CHATTANOOGA, TN 37421  
CONTACT: JUSTIN WITT

**DESIGN PROFESSIONAL**  
BARGE DESIGN SOLUTIONS  
1110 MARKET STREET | SUITE 200  
CHATTANOOGA, TN 37402  
423.756.3025  
CONTACT: ANDY HIGHLANDER, PE

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## VICINITY MAP

NOT TO SCALE

**PROPERTY DATA**

ADDRESS	183 E 25TH STREET
PARCEL ID	155D-A-005
ZONING	R-3
OVERLAY	NONE

**FEMA NOTE**  
THIS PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY NO. 47037C, PANEL NO. 0243H, DATED APRIL 5, 2017, ZONE "X."



HAMILTON COUNTY SCHOOLS  
HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN



1110 Market Street // Suite 200 // Chattanooga, Tennessee 37402  
Phone (423) 756-3025 // Fax (423) 756-8477

**G0.00**  
PROJECT No.  
38505-00

USER: AGHIGHLANDER  
FILE: 138136060385050004\_CADD\CIVIL\HHS\PL\OTS3850500-HHS-G0.00.dwg  
SAVED: 3/12/2024  
PLOTTED: 3/12/2024

GENERAL NOTES

- 1. THE FOLLOWING NOTES ARE APPLICABLE TO ALL CIVIL DOCUMENTS.
2. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS AND BOND, IF REQUIRED, PRIOR TO BEGINNING WORK.
4. THE SITE LAYOUT IS BASED ON THE CONTROL POINTS AS NOTED.
5. DO NOT SCALE DRAWING AS THEY ARE REPRODUCTION AND SUBJECT TO DISTORTION.
6. ELEVATIONS SHOWN ARE RELATIVE TO NAD83 DATUM.
7. THE LOCATION OF EXISTING UTILITIES, PUBLIC OR PRIVATE, ARE APPROXIMATE ONLY.
8. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE STARTING ANY WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES.
10. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN, WHICH RESULTS FROM NEW CONSTRUCTION, SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD ELECTRICAL WIRES AND SERVICES.
12. IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
13. THESE PLANS, PREPARED BY BARGE DESIGN SOLUTIONS, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK.
14. ON-SITE PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS AND THE GEOTECHNICAL ENGINEERING REPORT.
15. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
16. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW.
17. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING VEGETATION DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ON COPY OF THE CURRENT CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED PERMITS.
21. TRAFFIC CONTROL, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, COUNTY, AND TDOT TRAFFIC DEPARTMENTS SHALL BE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY.
22. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
23. THE CONTRACTOR WILL PROVIDE ALL CONSTRUCTION STAKING AND PROVIDE COPIES OF THE SAME, INCLUDING CUT SHEETS, IF REQUESTED.
24. EXTERIOR EROSION AND SEDIMENT CONTROL FACILITIES, AND TREE PRESERVATION MEASURES SHALL BE PLACED PRIOR TO THE START OF ON-SITE GRADING ACTIVITIES.
25. CONSIDERATION SHALL BE GIVEN AT ALL TIMES FOR SAFE TRAVEL OF ALL PEDESTRIAN AND VEHICULAR TRAFFIC THAT MAY OCCUR DURING CONSTRUCTION PERIOD.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE AND APPROPRIATE SLOPE TO DRAIN ALL WALKS AND SWALES, REGARDLESS OF WHETHER THE PLANS GRAPHICALLY PORTRAY OR INDICATE SLOPE.

GRADING NOTES

- 1. ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE AND ANY PROPOSED PROFILES AND/OR CROSS-SECTIONS REPRESENT THE SAME FINISHED SURFACE.
2. ALL PROPOSED GRADING SHALL BE CONSIDERED UNCLASSIFIED.
3. ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CHATTANOOGA STANDARD SPECIFICATIONS AND DETAILS.
4. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
5. ALL TOPSOIL, FILL MATERIAL, EXISTING FOUNDATIONS, UTILITIES, UNDER GROUND TANKS, PAVEMENT, BASE AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW ANY STRUCTURES.
6. THE CONTRACTOR SHALL ADJUST FINAL GRADES AT EXISTING PAVEMENTS TO ASSURE A SMOOTH TRANSITION.
7. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FOR ALL NATURAL AND PAVED AREAS.
8. AFTER REMOVAL OF TOPSOIL CONSTRUCT EMBANKMENTS BY DISTRIBUTING THE MATERIAL IN SUCCESSIVE, UNIFORM HORIZONTAL LAYERS NO MORE THAN 8" THICK.
9. COMPACT THE EMBANKMENT AREAS TO A DENSITY OF AT LEAST 95% OF MAXIMUM DENSITY OR, IN STRUCTURE OR PAVING AREAS TO AT LEAST 100% OF MAXIMUM DENSITY FOR TOP TWO FEET AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
10. THE CONTRACTOR IS TO DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL AS DIRECTED BY THE A/E.
11. CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
12. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME.
13. IN NO CASE SHALL SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS.
14. THE CONTRACTOR SHALL CONSTRUCT EROSION CONTROL MEASURES AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
15. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK.
16. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS.
17. ALL UN-SURFACED AREA DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL.
18. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA.
19. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
20. CONSTRUCTION EXIT(S) SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLES, I.E. CONSTRUCTION TRAILER, LUMBER, ETC.
21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
22. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT (1' FOOT).
23. THIS GRADING AND DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF SURFACE CONDITIONS FOR THE WORK INDICATED.
24. DO NOT DISTURB VEGETATION OR REMOVE ANY EXISTING TREES EXCEPT WHERE DESIGNATED ON THE PLAN.
25. TOP OF GRADE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE SHOWN ON THE PLAN UNLESS OTHERWISE NOTED.

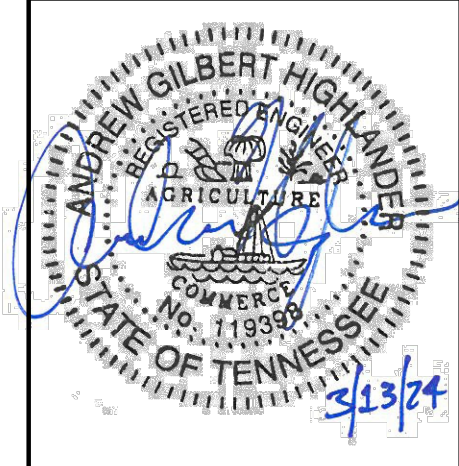
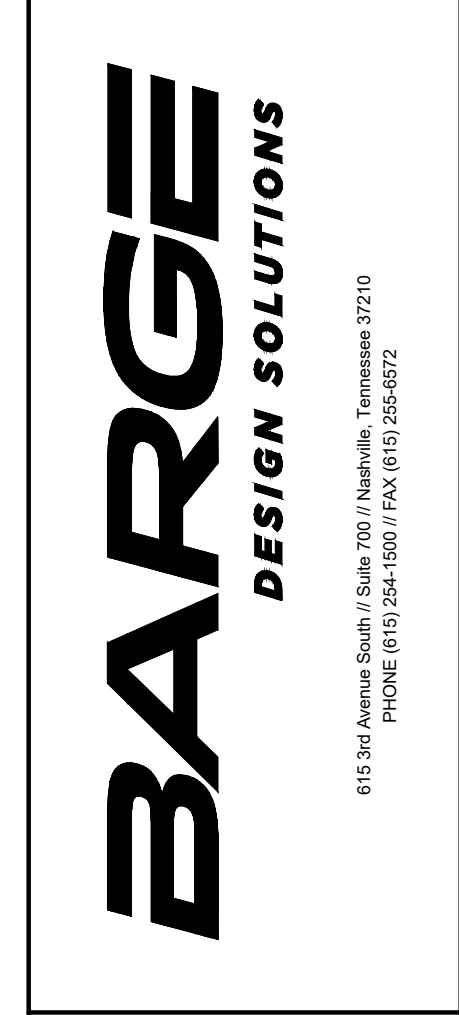
EROSION CONTROL NOTES

- 1. NO VEGETATION IS TO BE DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
2. TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED, AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".
3. ALL GRADED AREAS INCLUDING 3:1 SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 7 DAYS OF FINAL GRADING.
4. ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
5. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED WITH SUCH SEDIMENT.
6. WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF THE ENGINEER, THEY SHALL BE REMOVED.
7. THE CONTRACTOR SHALL REPLACE SILT BARRIERS WHEN CONDITIONS WARRANT AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND CITY ENGINEER.
8. THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE BASE OF ANY STOCK PILES.
9. THE CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA, THE EQUIPMENT MAINTENANCE AND CLEANING AREA, CONTRACTOR'S EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES.
10. ALL UNDISTURBED AREAS INCLUDING WETLAND/STREAM BUFFERS, SHALL BE FIELD MARKED AND KEPT FREE OF CONSTRUCTION EQUIPMENT.
11. CURRENT VERSIONS OF THE STORM WATER POLLUTION PREVENTION PLAN, NOTICE OF INTENT, AND NOTICE OF COVERAGE SHALL BE KEPT ON SITE AND IS TO BE ACCESSIBLE FOR THE DURATION OF THE PROJECT.
12. THE CONTRACTOR SHALL APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA.
13. THE CONTRACTOR SHALL MULCH WITH STRAW AT A RATE OF 100 LBS/1000 S.F. OVER THE SEEDED AREAS.
14. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDEC EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH TDEC REQUIREMENTS.
16. THE SITE SHALL BE STABILIZED WITHIN 14 DAYS AFTER CONSTRUCTION HAS TEMPORARILY/PERMANENTLY CEASED.
17. VEGETATION AND EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT ARE AFFECTED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITHIN 7 DAYS.
18. ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO ACCEPTANCE.

UTILITY NOTES

- 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID.
3. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES.
4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT.
5. ANY EXISTING STORM SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER.
6. IF ANY SANITARY SEWER IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY'S OWNER.
7. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND INVERTS OF ALL EXISTING UTILITY LINES AND STRUCTURES.
15. THE OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT, DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED OR THAT ACTUAL LOCATION OF THOSE SHOWN MAY BE DIFFERENT FROM LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS.
16. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN ALL SANITARY SEWER AND WATERLINE CROSSINGS.
17. ALL WATER AND ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF LOCAL UTILITY COMPANY PROVIDER.
18. SEWER SERVICE LINE CLEAN-OUT ASSEMBLY SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF LOCAL UTILITY COMPANY PROVIDER.
19. ALL PUBLIC AND PRIVATE WATER MAINS SHALL COMPLY WITH NFPA 13 AND 24 UNLESS LOCAL JURISDICTION STATES OTHERWISE.
20. ALL PROPOSED SANITARY SEWER LINES SHALL BE INSTALLED IN ACCORDANCE WITH CITY AND STATE STANDARD DETAILS AND SPECIFICATIONS.
21. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AT LEAST 7 DAYS PRIOR TO THE START OF SEWER CONSTRUCTION.
22. ALL SEWER LINES SHALL BE TESTED AND APPROVED AFTER ALL OTHER UTILITIES HAVE BEEN INSTALLED.
23. ALL CUTS AND FILLS ARE TO BE IN PLACE AND FILLS COMPACTED PRIOR TO SEWER CONSTRUCTION.
24. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE.
25. SERVICE LATERALS EXTENDING TO THE PROPERTY LINE SHALL EACH HAVE A CLEANOUT AT THE PROPERTY LINE.
26. UPON COMPLETION OF THE PROJECT, "RECORD" DRAWINGS MUST BE SUBMITTED TO THE JURISDICTIONAL ENGINEER WITHIN 30 DAYS.
27. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ANY APPLICABLE FEES.

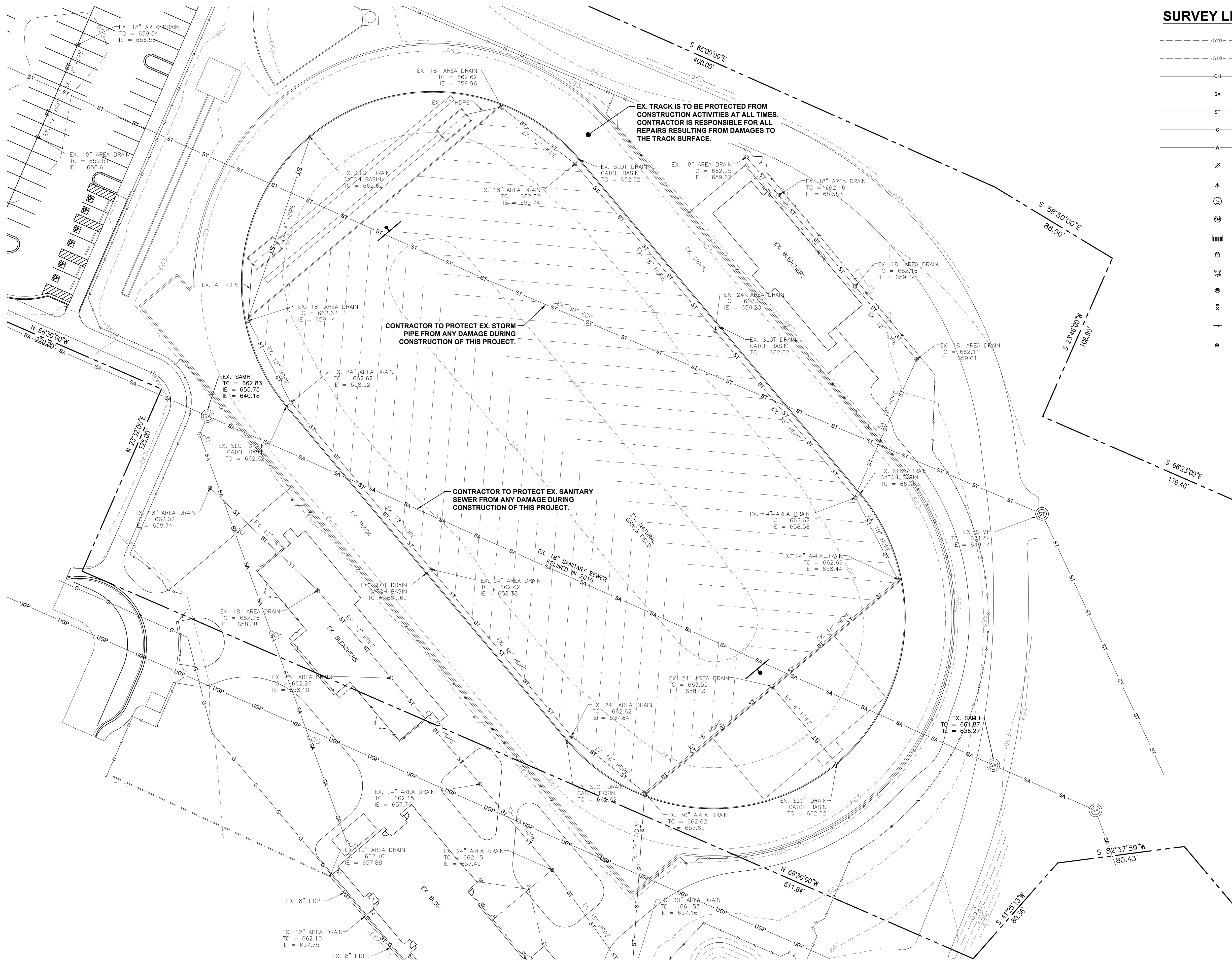
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SAVED:3/12/2024
PLOTTED:3/12/2024



GENERAL NOTES
HAMILTON COUNTY SCHOOLS
HOWARD HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION
HAMILTON COUNTY, TN

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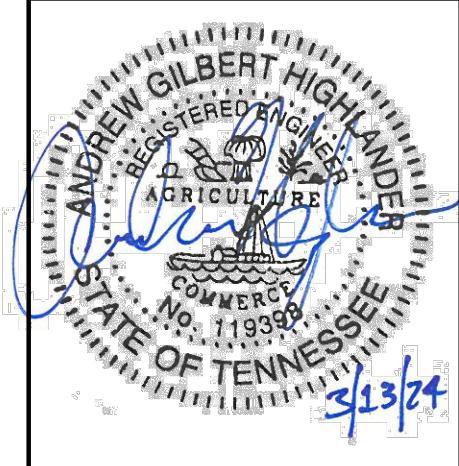


**SURVEY LEGEND**

- 520--- CONTOUR LINE (MAJOR)
- 519--- CONTOUR LINE (MINOR)
- OH— OVERHEAD POWER LINE
- SA— SANITARY SEWER LINE
- ST— STORM SEWER LINE
- G— NATURAL GAS LINE
- W— WATER LINE
- ⊘ UTILITY POLE
- ↑ GUY WIRE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM SEWER MANHOLE
- ⊙ CATCH BASIN
- ⊙ SANITARY CLEANOUT
- ⊙ FIRE HYDRANT
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ SIGN POST
- ⊙ BOLLARD

**BARGE**  
DESIGN SOLUTIONS

015 3rd Avenue South / Suite 700 / Nashville, Tennessee 37210  
PHONE: (615) 254-1500 / FAX: (615) 254-6572



**EXISTING CONDITIONS**

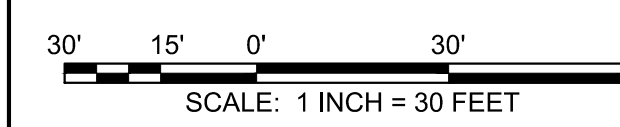
HAMILTON COUNTY SCHOOLS  
**HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION**  
HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	ECM	08/13/2024	ISSUED FOR BID

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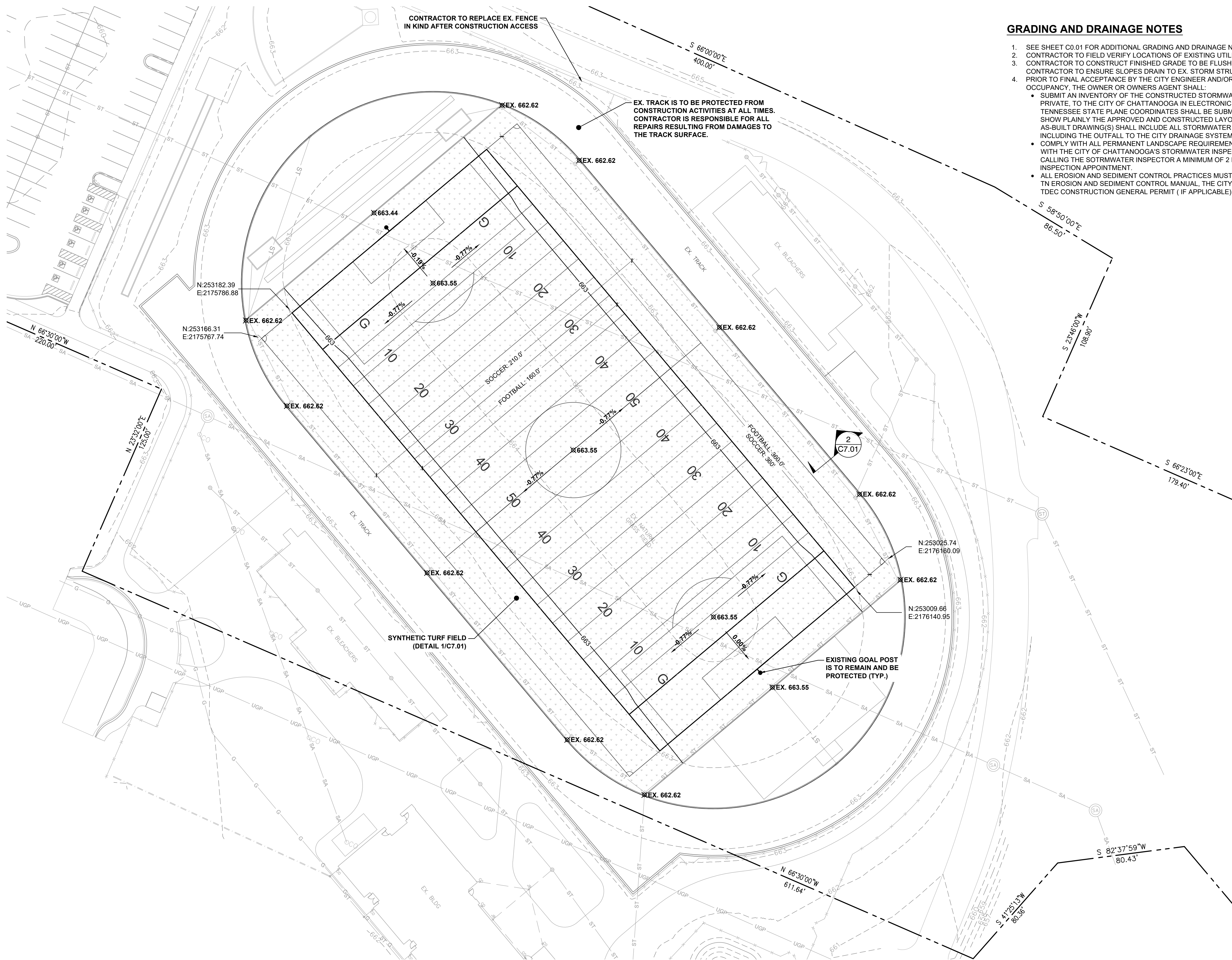


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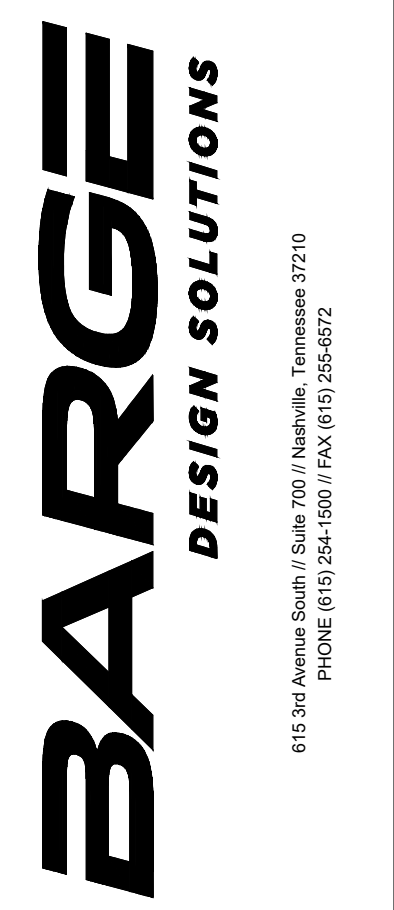
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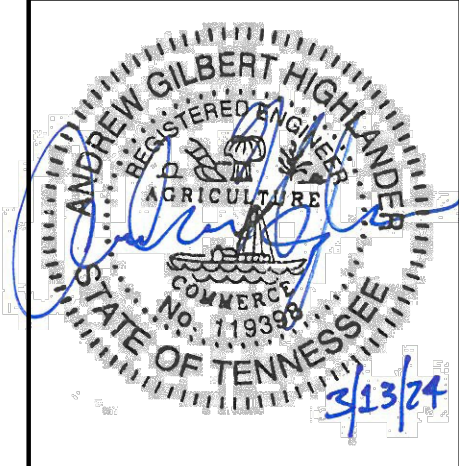


**GRADING AND DRAINAGE NOTES**

- SEE SHEET C0.01 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT FINISHED GRADE TO BE FLUSH WITH EXISTING STORM STRUCTURE CASTINGS. CONTRACTOR TO ENSURE SLOPES DRAIN TO EX. STORM STRUCTURES.
- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNERS AGENT SHALL:
  - SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS IN TENNESSEE STATE PLANE COORDINATES SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING(S) SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM
  - COMPLY WITH ALL PERMANENT LANDSCAPE REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S STORMWATER INSPECTOR. AN APPOINTMENT MAY BE MADE BY CALLING THE STORMWATER INSPECTOR A MINIMUM OF 2 BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION AND SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).



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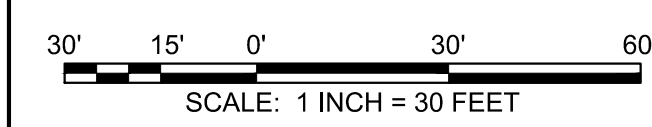


**FINISHED GRADING & SITE LAYOUT PLAN**  
 HAMILTON COUNTY SCHOOLS  
**HOWARD HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION**  
 HAMILTON COUNTY, TN

REVISION INFORMATION			
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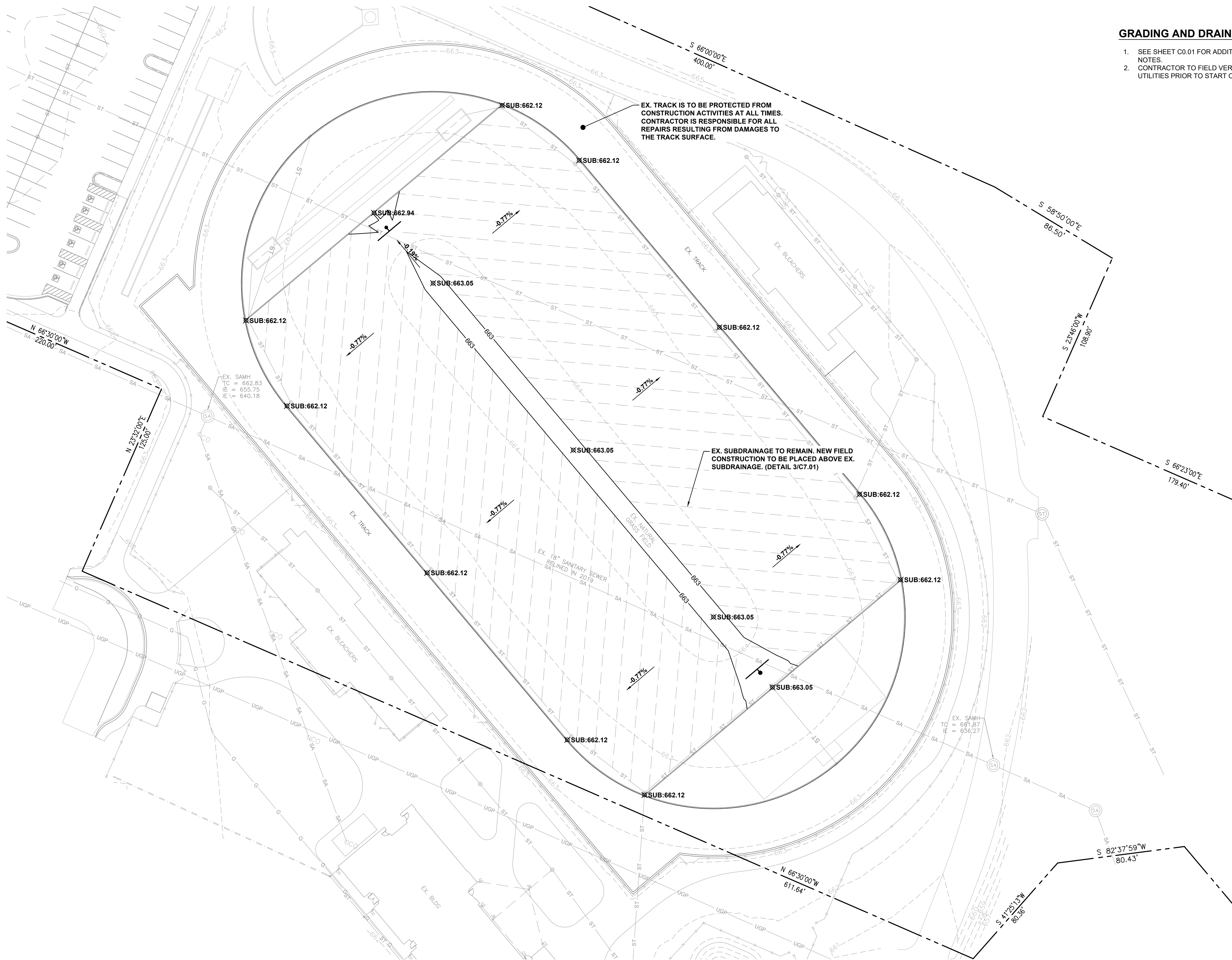
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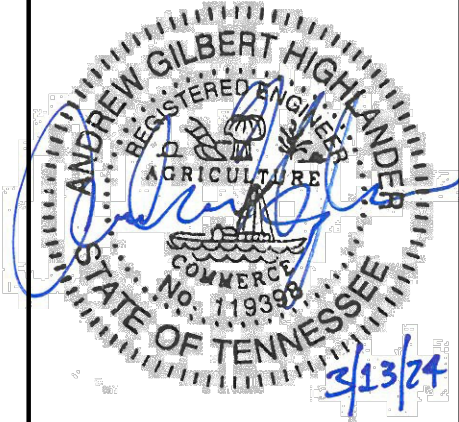
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**GRADING AND DRAINAGE NOTES**

- SEE SHEET C0.01 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.



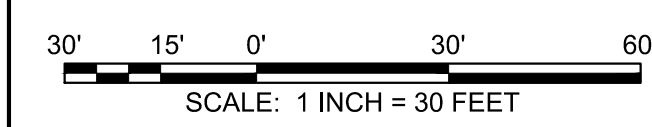
**SUBGRADE PLAN**  
 HAMILTON COUNTY SCHOOLS  
 HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REVISION INFORMATION			
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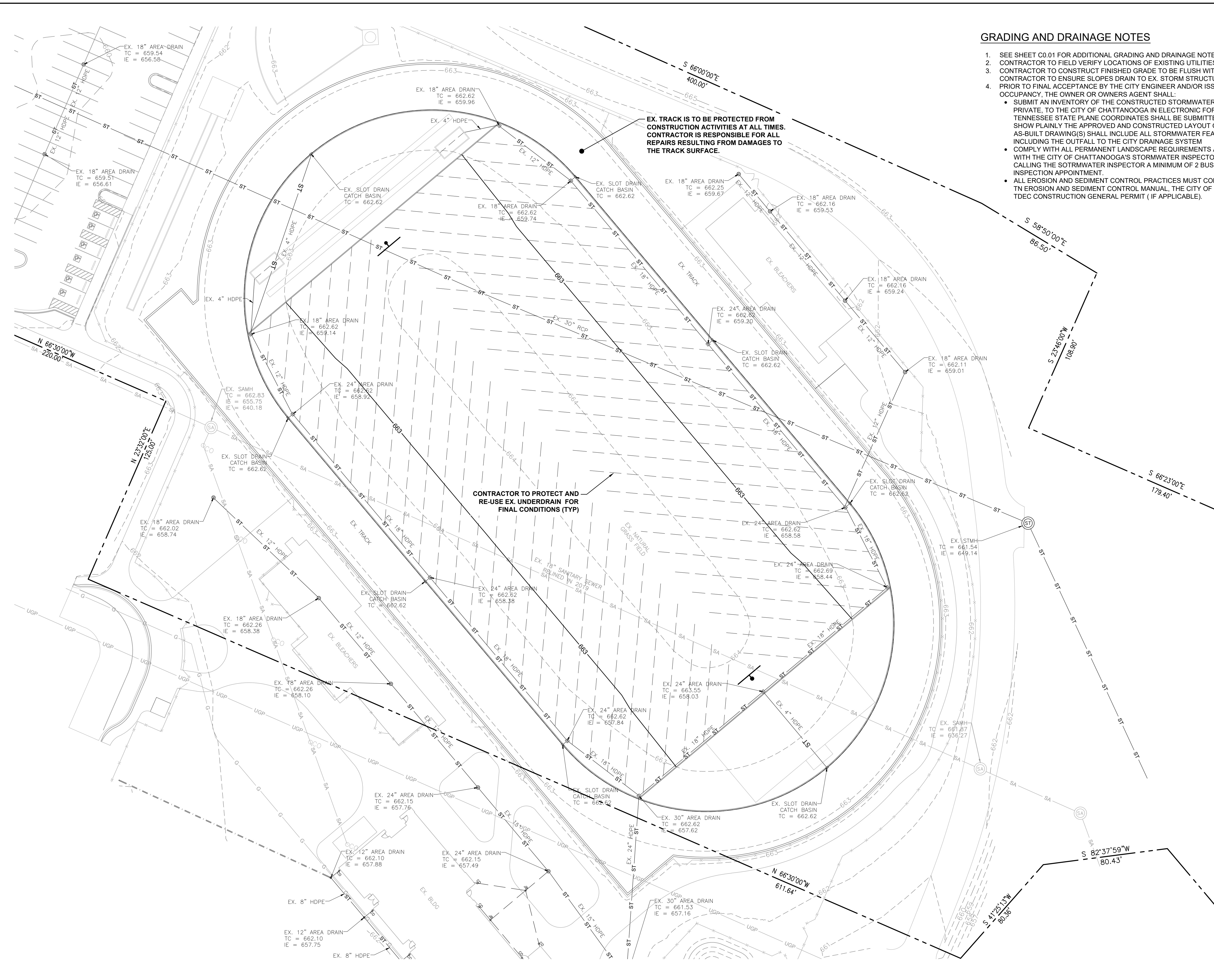
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**C2.11**  
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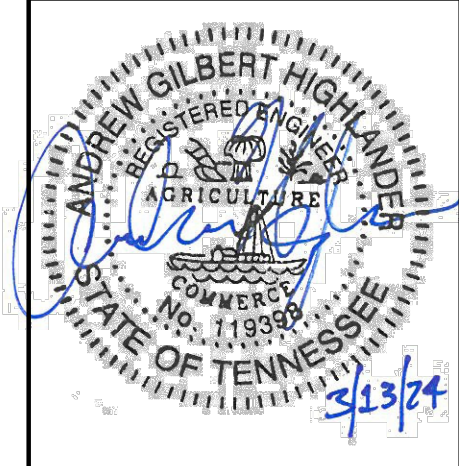
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- CONTRACTOR TO CONSTRUCT FINISHED GRADE TO BE FLUSH WITH EXISTING STORM STRUCTURE CASTINGS. CONTRACTOR TO ENSURE SLOPES DRAIN TO EX. STORM STRUCTURES.
- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNERS AGENT SHALL:
  - SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS IN TENNESSEE STATE PLANE COORDINATES SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING(S) SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM
  - COMPLY WITH ALL PERMANENT LANDSCAPE REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S STORMWATER INSPECTOR. AN APPOINTMENT MAY BE MADE BY CALLING THE STORMWATER INSPECTOR A MINIMUM OF 2 BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION AND SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).



**DRAINAGE PLAN**

HAMILTON COUNTY SCHOOLS  
 HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

**811** Know what's below  
 Call before you dig.  
 811  
 www.call811.com

DATUM: TNSPC (NAD83)  
 NAVD 1988

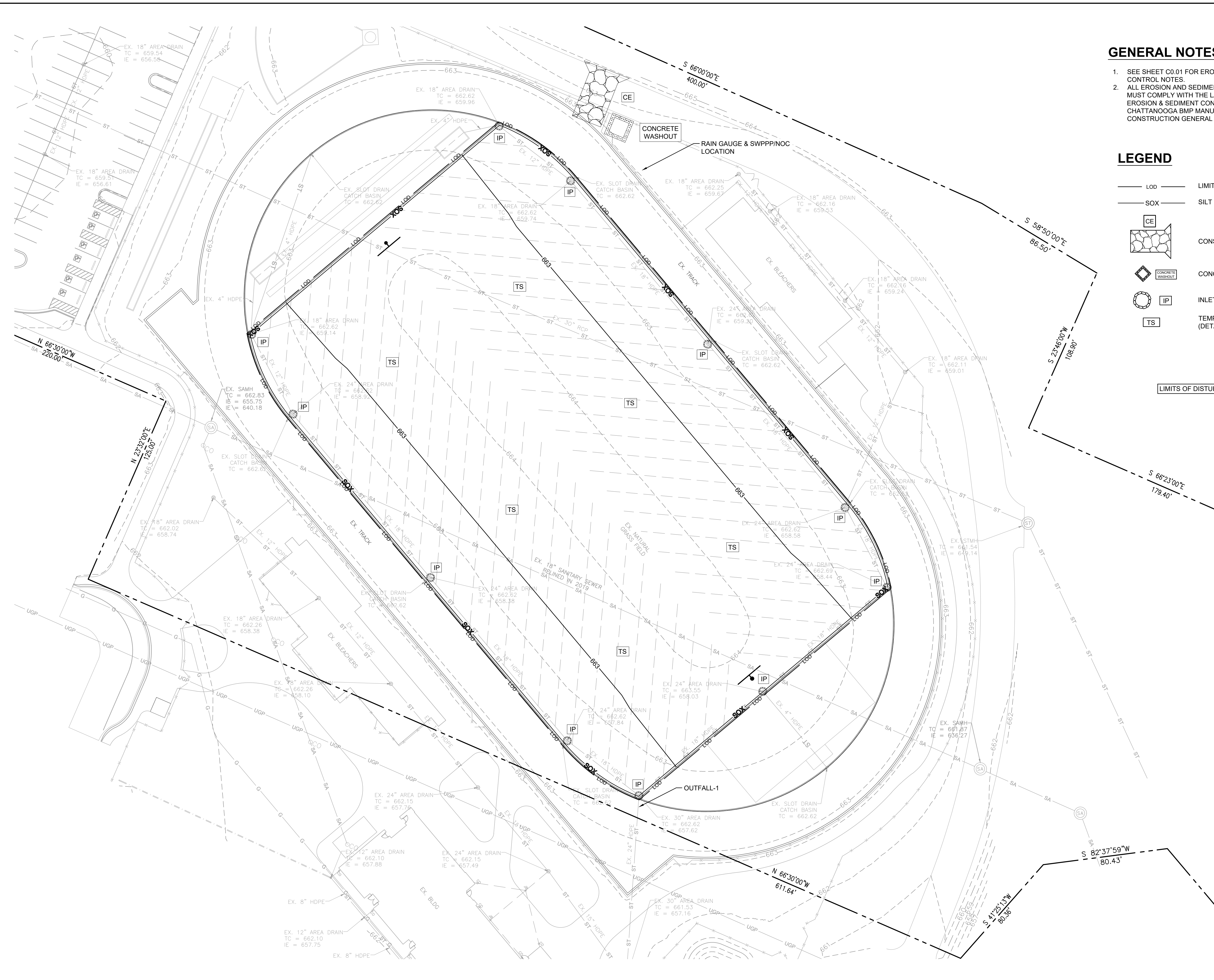
FEMA PANEL: ZONE "X", PANEL NO. 47037C0243H, 4/5/17.

30' 15' 0' 30' 60'  
 SCALE: 1 INCH = 30 FEET

REV.	CHK.	DATE	DESCRIPTION
0	DR.	03/13/2024	ISSUED FOR BID

**C2.21**  
 FILE NO. 38505-00

USER: AGH/HANDLER  
 FILE: P:\38505\38505004\_CAD\CIVIL\HHS\PL01\38505004-HHS-C2.31.dwg  
 SA: VED/2/26/2024  
 PLOTTED: 3/12/2024



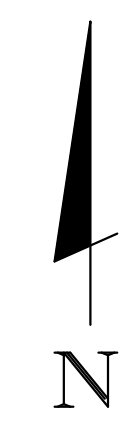
**GENERAL NOTES**

- SEE SHEET C0.01 FOR EROSION AND SEDIMENT CONTROL NOTES.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE LATEST EDITION OF THE TN EROSION & SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT.

**LEGEND**

- LIMITS OF DISTURBANCE
- SILT SOXX (DETAIL 1/C7.31)
- CONSTRUCTION EXIT (DETAIL 2/C7.31)
- CONCRETE WASHOUT (DETAIL 3/C7.31)
- INLET PROTECTION (DETAIL 4/C7.31)
- TEMPORARY SEEDING ALL DISTURBED AREAS (DETAIL 5/C7.31)

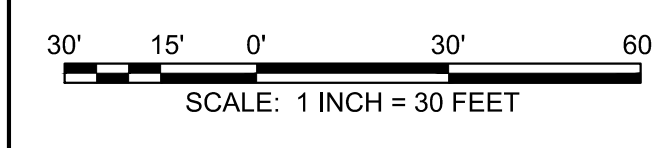
LIMITS OF DISTURBANCE = 2.13 AC



**811** Know what's below  
 Call before you dig.  
 811  
 www.call811.com

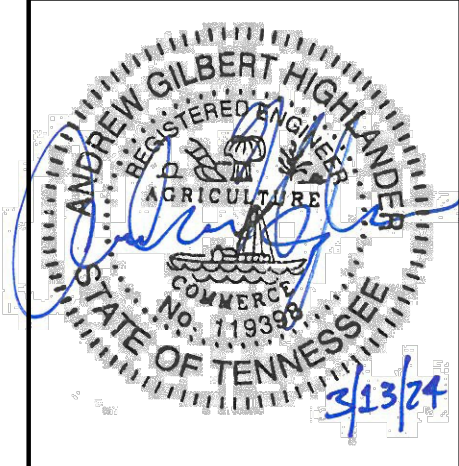
DATUM: TNSPC (NAD83)  
 NAVD 1988

FEMA PANEL: ZONE "X", PANEL NO. 47037C0243H, 4/5/17.



**BARGE**  
 DESIGN SOLUTIONS

615 3rd Avenue South / Suite 700 / Nashville, Tennessee 37210  
 PHONE: (615) 254-1500 / FAX: (615) 256-6572



**EPSC PLAN**

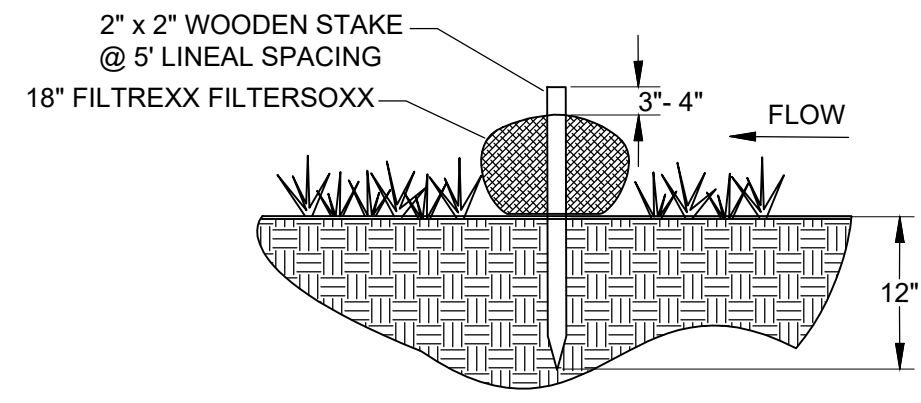
HAMILTON COUNTY SCHOOLS  
 HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	DR.	03/12/2024	ISSUED FOR BID

**C2.31**  
 FILE NO. 38505-00





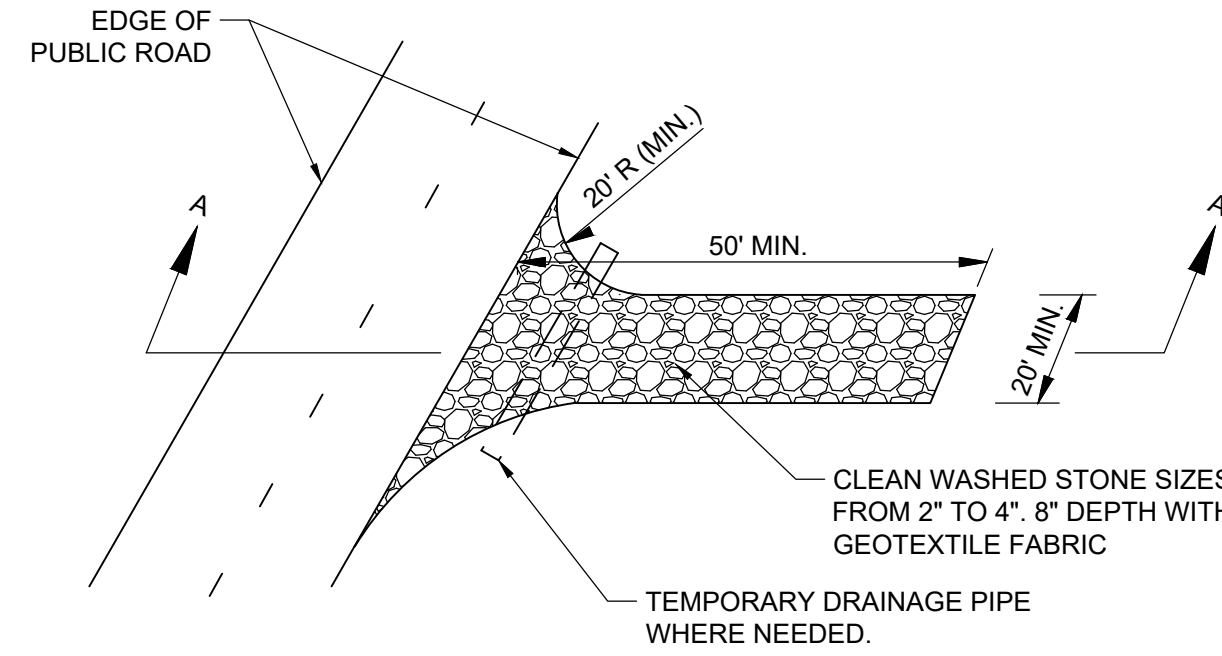


FILTREXX FILTERSOXX SECTION

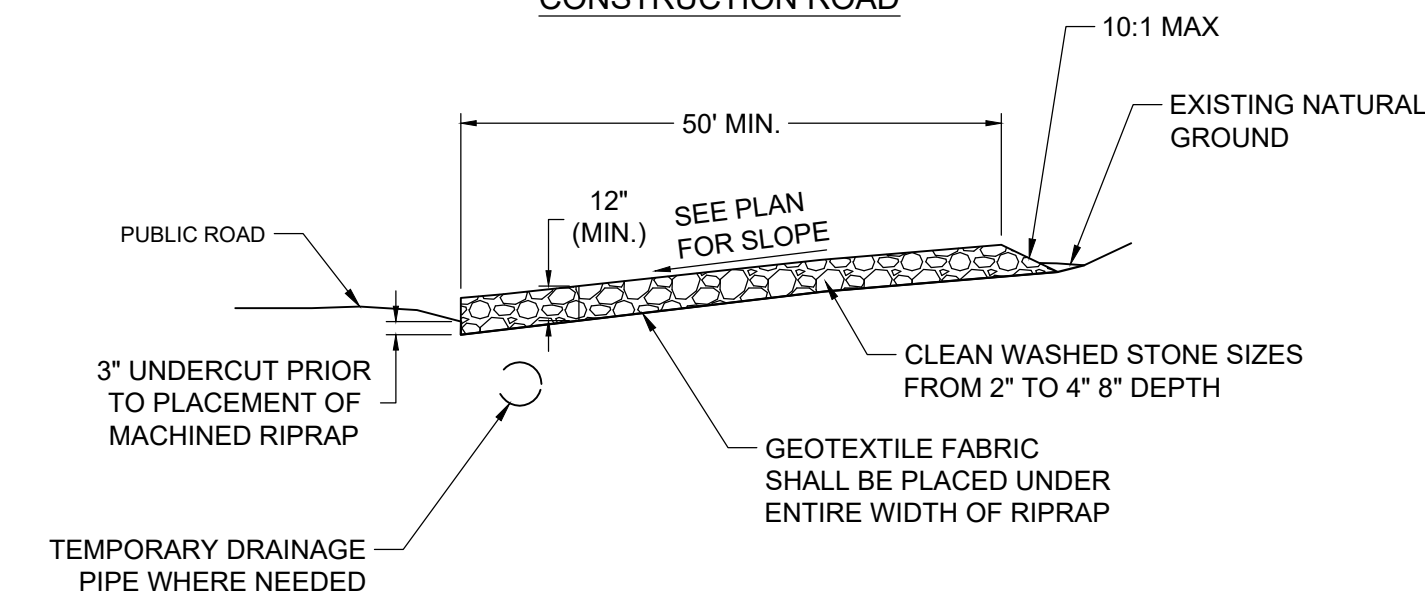
- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR APPROVED EQUIVALENT.
  2. FILTERSOXX COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER AND OWNER.
  4. USE SAND BAGS OR CONCRETE BLOCKS TO KEEP SILT SOXX IN PLACE OVER PAVEMENT AND HARDSCAPE AREAS.

**1 SILT SOCK**  
C7.31 SCALE: NTS

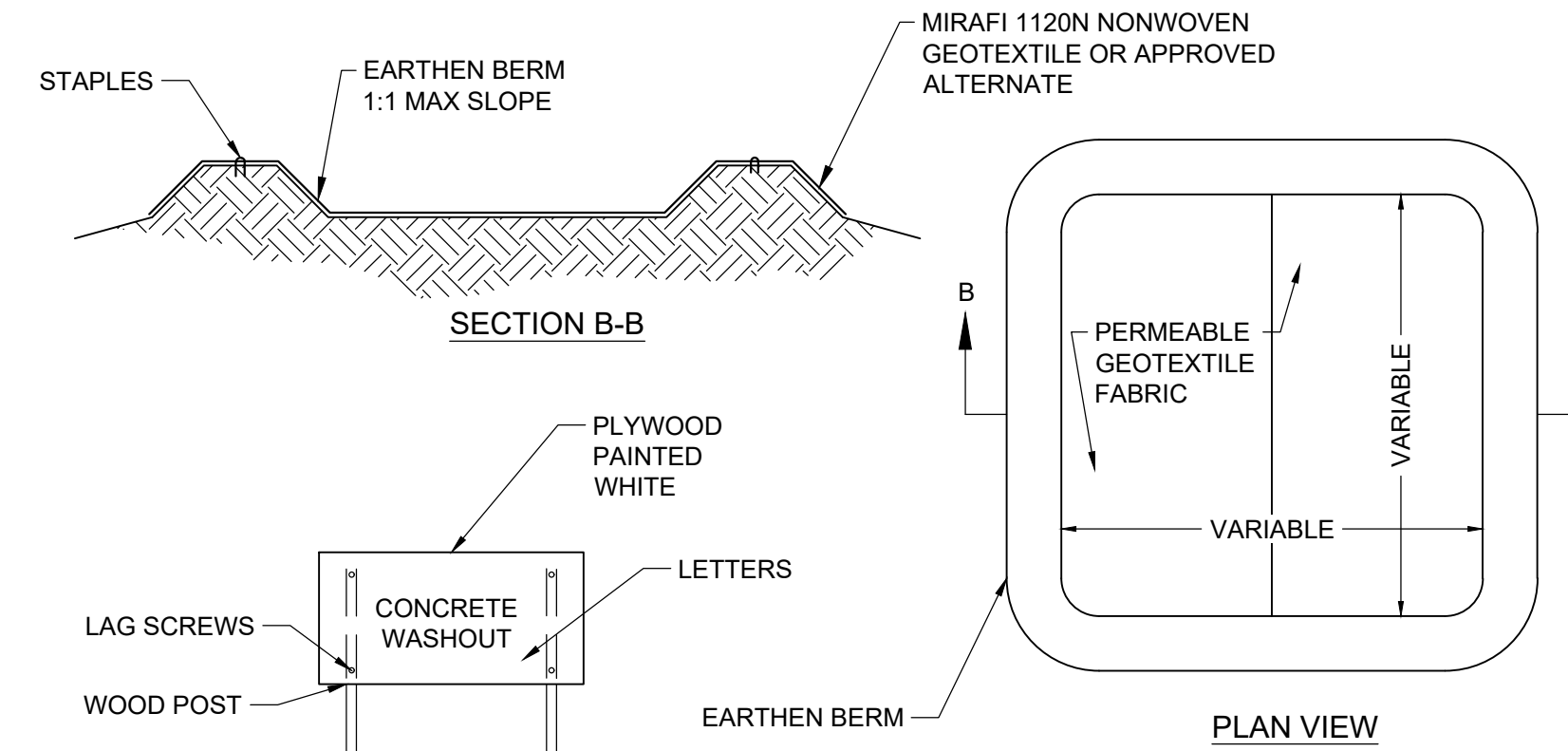
- NOTES:
1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 2 TO 4 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
  2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
  3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
  4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 20 FEET, WHICH EVER IS GREATER.
  5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FABRIC SHALL BE 12 OZ./S.Y. NON-WOVEN.
  6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
  7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
  8. IF APPLICABLE, DIVERSION DITCH AND SEDIMENT TRAP SHALL BE LOCATED AS SHOWN IN PLANS. REPRESENTATION IN THE ABOVE DETAIL IS FOR GENERAL REFERENCE.



PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



SECTION A-A



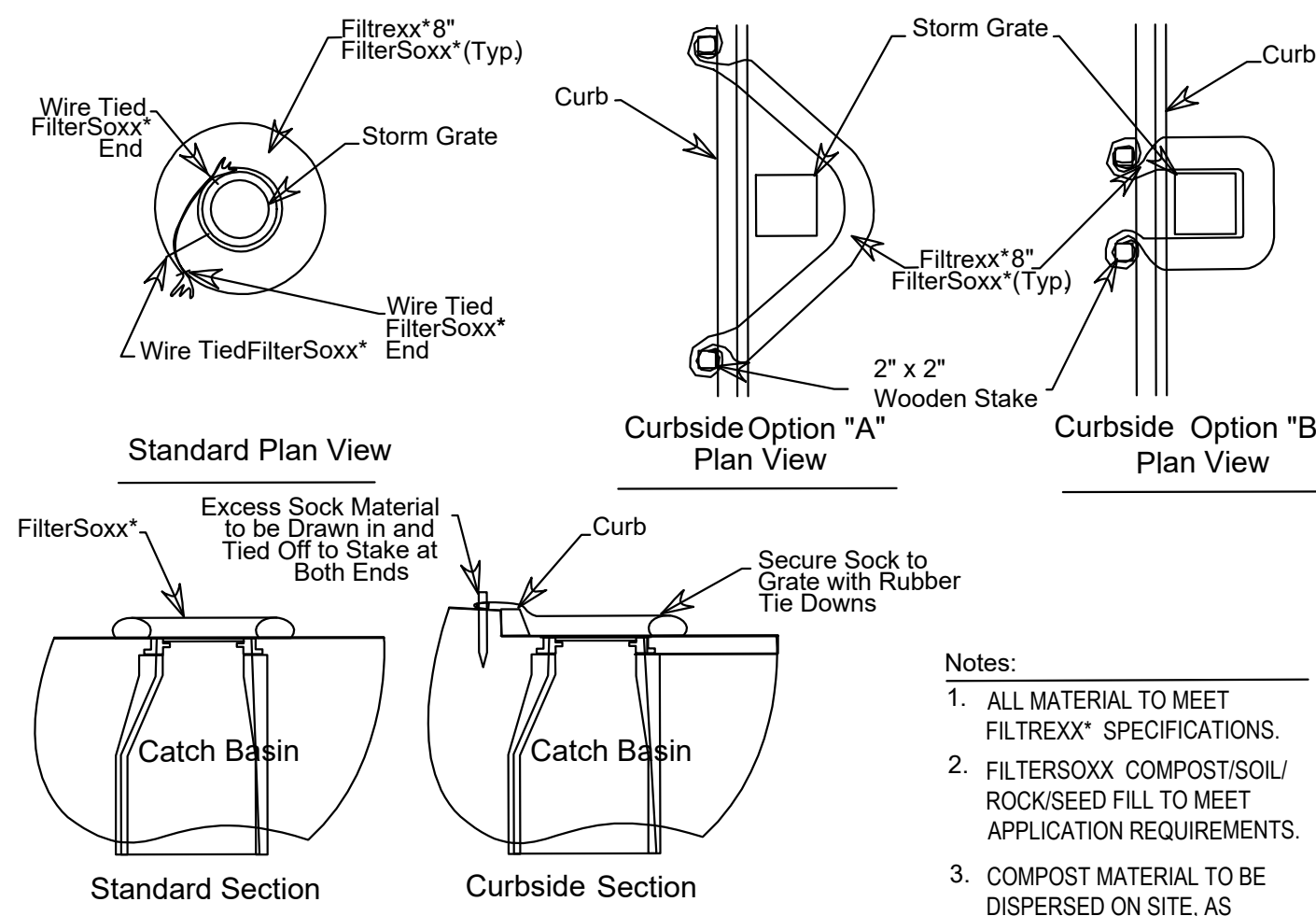
TYPE "ABOVE GRADE" WITH EARTHEN BERMS

- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
  2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT. OF THE WASHOUT FACILITY.

**3 CONCRETE WASHOUT**  
C7.31 SCALE: NTS

**2 CONSTRUCTION EXIT**  
C7.31 SCALE: NTS

Filtrex Inlet Protection Details



**4 INLET PROTECTION**  
C7.31 SCALE: NTS

SEEDING SCHEDULE & NOTES:

GROUP	SEEDING DATES	GRASS SEED	PERCENTAGES	RATE/SF	RATE/AC
<b>PERMANENT SEED MIXTURE</b>					
A	FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	85%	2.5LBS/1,000SF	110LBS/ACRE
		WHITE CLOVER	10%		
		ENGLISH RYE	5%		
B	JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	60%	2.5LBS/1,000SF	110LBS/ACRE
		ENGLISH RYE	2%		
		WHITE CLOVER	10%		
		GERMAN MILLET	10%		
C	AUGUST 1 TO DECEMBER 1	KENTUCKY 31 FESCUE	70%	2.5LBS/1,000SF	110LBS/ACRE
		ENGLISH RYE	20%		
		WHITE CLOVER	10%		
<b>TEMPORARY SEED MIXTURE</b>					
	AUGUST 15 TO OCTOBER 31	ANNUAL RYE GRASS	100%	0.9LBS/1,000SF	40LBS/ACRE
	APRIL 15 TO JUNE 15	BROWN TOP MILLET	100%	0.9LBS/1,000SF	40LBS/ACRE
	SEPTEMBER 15 TO NOVEMBER 30	WINTER WHEAT	100%	4.1LBS/1,000SF	3BU./ACRE

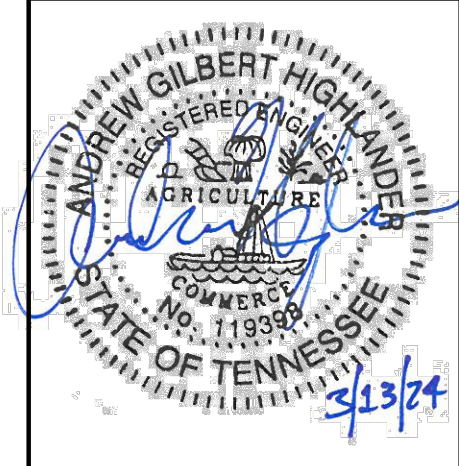
- A. SEEDING SHALL BE IN ACCORDANCE WITH SECTION 801 OF TDOT SPECIFICATIONS. GROUPING REFERS TO TDOT SEED GROUP.
- B. MAY TO SEPTEMBER 20 LB/AC OF STARR MILLET SHALL BE ADDED WITH SPECIFIED SEED GROUPING LISTED ABOVE.
- C. OCTOBER TO APRIL 32 LB/AC OF OATS SHALL BE ADDED WITH SPECIFIED SEED GROUPS LISTED ABOVE.

**5 SEEDING SCHEDULE**  
C7.31 SCALE: NTS

CONSTRUCTION SEQUENCE

DESCRIPTION	APR. 2024	MAY 2024	JUN. 2024	JUL. 2024	AUG. 2024
INSTALL INITIAL PERIMETER EROSION CONTROL MEASURES & RELATED DEVICES	[Bar]				
SUBGRADE EARTHWORK	[Bar]				
INSTALL ARTIFICIAL TURF	[Bar]				
MAINTAIN & MODIFY EROSION CONTROL MEASURES & RELATED DEVICES UNTIL STABILIZATION	[Bar]				
FINAL SITE STABILIZATION	[Bar]				

**6 CONSTRUCTION SCHEDULE**  
C7.31 SCALE: NTS

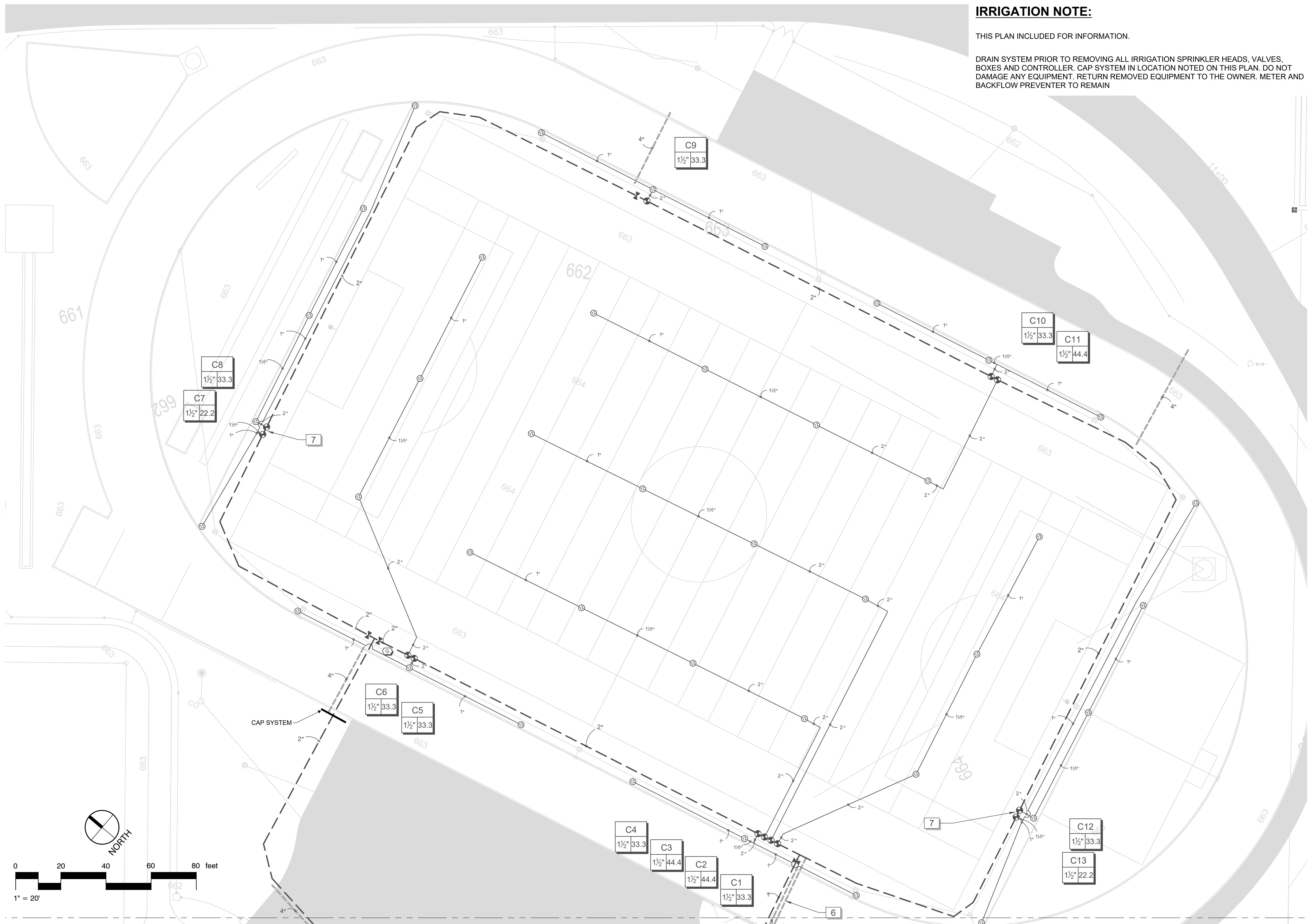


EPSC DETAILS

HAMILTON COUNTY SCHOOLS  
HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REV.	DR.	CHK.	DATE	DESCRIPTION
0	ECM	AGH	08/13/2024	ISSUED FOR BID

USER: CHARTNESS  
 FILE: F:\36\3650\36500004\_CAD\CIVIL\HHS\PILOT\365000-HHS-IR-1.dwg  
 SAVED: 3/12/2024  
 PLOTTED: 3/12/2024



**IRRIGATION NOTE:**

THIS PLAN INCLUDED FOR INFORMATION.

DRAIN SYSTEM PRIOR TO REMOVING ALL IRRIGATION SPRINKLER HEADS, VALVES, BOXES AND CONTROLLER. CAP SYSTEM IN LOCATION NOTED ON THIS PLAN. DO NOT DAMAGE ANY EQUIPMENT. RETURN REMOVED EQUIPMENT TO THE OWNER. METER AND BACKFLOW PREVENTER TO REMAIN

615 3rd Avenue South / Suite 700 / Nashville, Tennessee 37210  
 PHONE: (615) 254-1500 / FAX: (615) 256-6572

**EXISTING IRRIGATION PLAN**

HAMILTON COUNTY SCHOOLS  
 HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REVISION INFORMATION		CHK.	DATE	DESCRIPTION
REV.	BY	CHK.	DATE	DESCRIPTION
0		AGH	03/13/2024	ISSUED FOR BID

**IR-1**

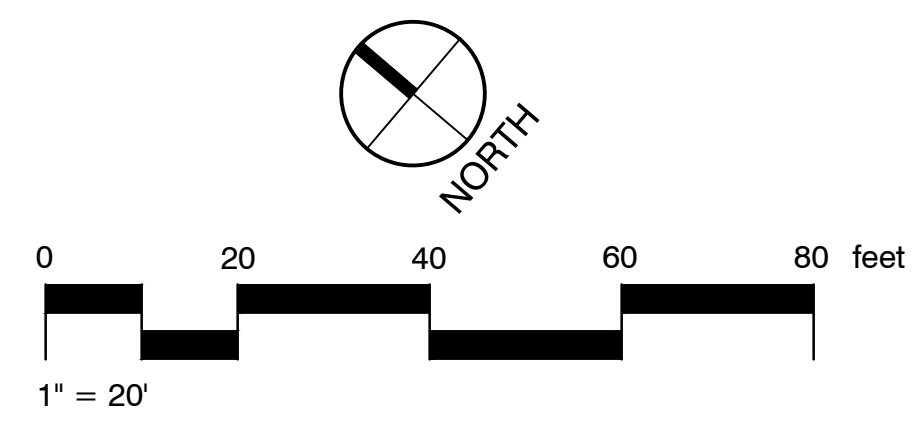
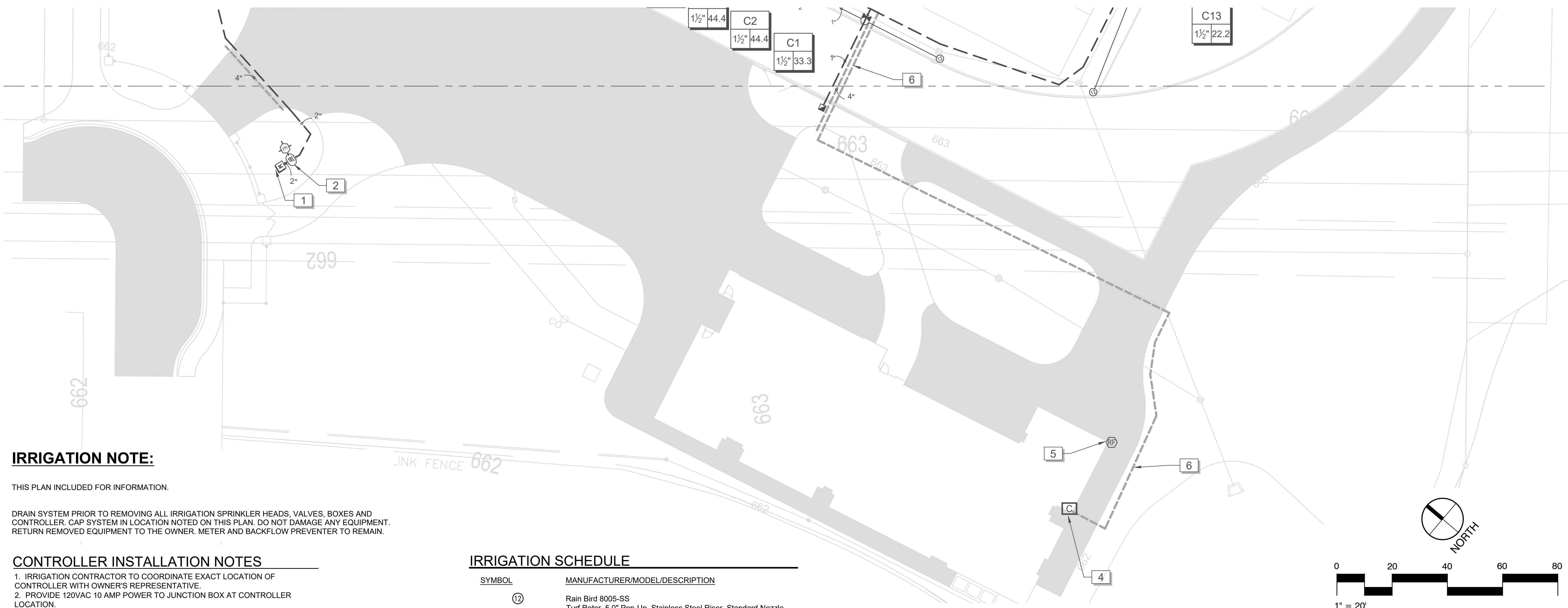
FILE NO. 38505-00

## EX. IRRIGATION PLAN, SCHEDULES, NOTES

HAMILTON COUNTY SCHOOLS  
 HOWARD HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REV.	DR.	DATE	DESCRIPTION
0	AGH	08/13/2024	ISSUED FOR BID

**IR-2**  
 FILE NO. 38505-00



### IRRIGATION NOTE:

THIS PLAN INCLUDED FOR INFORMATION.

DRAIN SYSTEM PRIOR TO REMOVING ALL IRRIGATION SPRINKLER HEADS, VALVES, BOXES AND CONTROLLER. CAP SYSTEM IN LOCATION NOTED ON THIS PLAN. DO NOT DAMAGE ANY EQUIPMENT. RETURN REMOVED EQUIPMENT TO THE OWNER. METER AND BACKFLOW PREVENTER TO REMAIN.

### CONTROLLER INSTALLATION NOTES

- IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.
- PROVIDE 120VAC 10 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION.
- IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE.
- CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING METALLIC FASTENERS MADE FOR WALL TYPE.
- ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.
- CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

### REFERENCE NOTES SCHEDULE

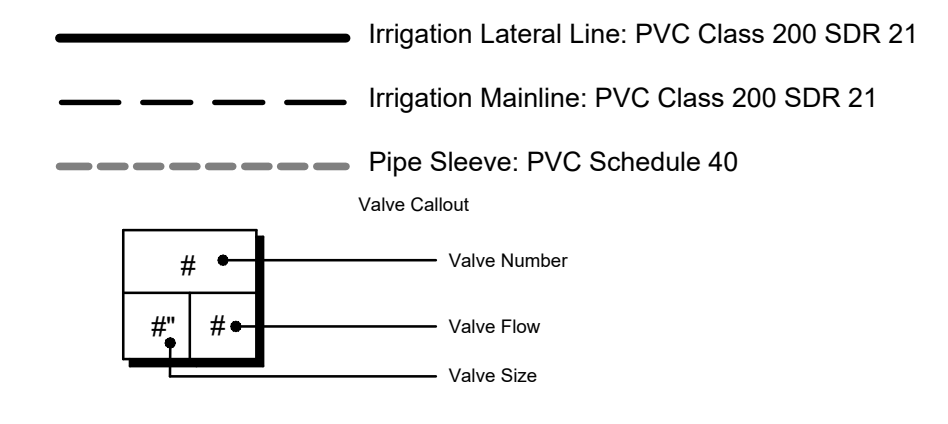
SYMBOL	DESCRIPTION	QTY	DETAIL
1	Irrigation system water source to be a 2" service line to a 2" meter. System requirements are 45 gpm at a static pressure of 78 psi. Verify flow and static pressure prior to construction.		
2	Install PRZ backflow preventer as per code. Install aluminum, insulated backflow enclosure on concrete pad as per plan detail.		
4	Coordinate exact location of the controller with the owners representative. Provide 120v 10 amp power to controller location from a dedicated circuit. Install controller as per plan details and manufacturers instructions.		
5	Coordinate the exact location of the Rain Freeze sensor with the owners representative. Install as per plan detail and manufacturers instructions.		
6	1-1/2" SCH 40 PVC electrical conduit for zone control wire. Run conduit and wire from controller to the mainline.		
7	Install centerline of the control valve 24" off of the track surface material.		

### VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
C1	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	55.73	70.32	0.38 in/h
C2	Rain Bird PESB	1-1/2"	Turf Rotor	44.40	57.08	73.69	0.38 in/h
C3	Rain Bird PESB	1-1/2"	Turf Rotor	44.40	56.29	72.91	0.38 in/h
C4	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	54.61	69.21	0.65 in/h
C5	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	54.58	69.86	0.67 in/h
C6	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	55.80	71.09	0.38 in/h
C7	Rain Bird PESB	1-1/2"	Turf Rotor	22.20	56.67	70.15	1.08 in/h
C8	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	55.09	70.69	0.72 in/h
C9	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	54.59	70.23	0.64 in/h
C10	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	54.62	70.26	0.64 in/h
C11	Rain Bird PESB	1-1/2"	Turf Rotor	44.40	56.28	74.67	0.38 in/h
C12	Rain Bird PESB	1-1/2"	Turf Rotor	33.30	55.11	70.15	0.72 in/h
C13	Rain Bird PESB	1-1/2"	Turf Rotor	22.20	56.67	69.87	1.14 in/h

### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Ⓜ	Rain Bird 8005-SS Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT Female Threaded Inlet. Extended Radius is Ideal for Large Turf Applications.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Ⓢ	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
Ⓜ	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key with Anti-Rotation Wings.
Ⓧ	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"
Ⓛ	Febco 825Y or Approved Equal 2" Reduced Pressure Backflow Preventer
ⓐ	Rain Bird ESP8LXME with (01) ESPLXMSM12 20 Station Commercial Controller. Mounted on a Plastic Wall Mount. Without flow sensing.
Ⓡ	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.
Ⓧ	V.I.T. Products SBBC-40ALHP1 High profile, insulated two piece backflow enclosure, made with marine grade aluminum. 40"L, 39"H, 24"W (101.6cm L, 99.06cm H, 60.96cm W).
ⓐ	2-Wire Grounding Point Install as per plan details.
Ⓜ	Water Meter 2"



### CRITICAL ANALYSIS

Generated: 2018-09-24 14:43

P.O.C. NUMBER: 01  
 Water Source Information:

FLOW AVAILABLE  
 Water Meter Size: 2"  
 Flow Available: 77.18 gpm

PRESSURE AVAILABLE  
 Static Pressure at POC: 80.00 psi  
 Elevation Change: 5.00 ft  
 Service Line Size: 2"  
 Length of Service Line: 20.00 ft  
 Pressure Available: 77.00 psi

DESIGN ANALYSIS  
 Maximum Station Flow: 44.40 gpm  
 Flow Available at POC: 77.18 gpm  
 Residual Flow Available: 32.78 gpm

Critical Station: C2  
 Design Pressure: 50.00 psi  
 Friction Loss: 3.21 psi  
 Fittings Loss: 0.32 psi  
 Elevation Loss: 0.00 psi  
 Loss through Valve: 3.54 psi  
 Pressure Req. at Critical Station: 57.08 psi  
 Loss for Fittings: 0.35 psi  
 Loss for Main Line: 3.45 psi  
 Loss for POC to Valve Elevation: 0.00 psi  
 Loss for Backflow: 11.94 psi  
 Loss for Master Valve: 0.66 psi  
 Loss for Water Meter: 1.56 psi  
 Critical Station Pressure at POC: 75.04 psi  
 Pressure Available: 77.00 psi  
 Residual Pressure Available: 1.96 psi

# HAMILTON COUNTY SCHOOLS OOTLEWAH HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION

HAMILTON COUNTY, TN



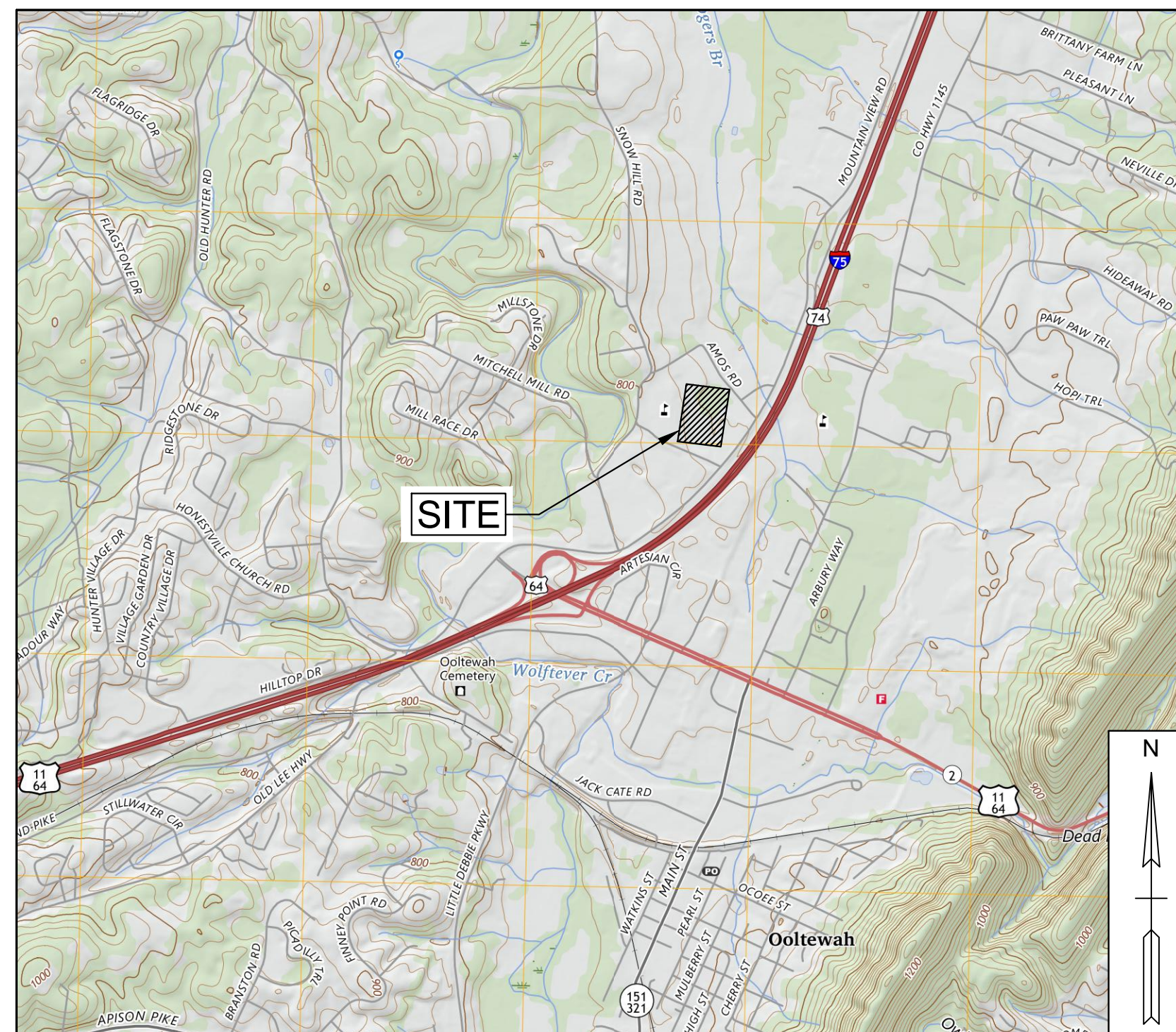
## CONTACTS

**OWNER**  
HAMILTON COUNTY SCHOOLS  
3074 HICKORY VALLEY ROAD  
CHATTANOOGA, TN 37421  
CONTACT: JUSTIN WITT

**DESIGN PROFESSIONAL**  
BARGE DESIGN SOLUTIONS  
1110 MARKET STREET / SUITE 200  
NASHVILLE, TN 37210  
423.756.3025  
CONTACT: ANDY HIGHLANDER, PE

## INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C0.00	COVER SHEET
C0.01	GENERAL NOTES
C0.21	EXISTING CONDITIONS
C2.01	FINISHED GRADING & LAYOUT PLAN
C2.11	SUBGRADE PLAN
C2.21	DRAINAGE PLAN
C2.31	EPSC PLAN
C7.01	SITE DETAILS
C7.02	SITE DETAILS
C7.03	SITE DETAILS
C7.04	SITE DETAILS
C7.31	EPSC DETAILS



## VICINITY MAP

NOT TO SCALE

### PROPERTY DATA

ADDRESS 6123 MOUNTAIN VIEW RD.  
PARCEL ID 123-007.01  
ZONING R-1  
OVERLAY NONE

### FEMA NOTE

THIS PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY NO. 47065C, PANEL NO. 0379G, 0381G, & 0383G DATED 2/3/2016. ZONE "X."



1110 Market Street // Suite 200 // Chattanooga, Tennessee 37402  
Phone (423) 756-3025 // Fax (423) 756-8477

HAMILTON COUNTY SCHOOLS  
OOTLEWAH HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

**G0.00**  
PROJECT No.  
38505-00

GENERAL NOTES

- 1. THE FOLLOWING NOTES ARE APPLICABLE TO ALL CIVIL DOCUMENTS.
2. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS AND BOND, IF REQUIRED, PRIOR TO BEGINNING WORK.
4. THE SITE LAYOUT IS BASED ON THE CONTROL POINTS AS NOTED.
5. DO NOT SCALE DRAWING AS THEY ARE REPRODUCTION AND SUBJECT TO DISTORTION.
6. ELEVATIONS SHOWN ARE RELATIVE TO NAD83 DATUM. EXISTING CONDITIONS ARE BASED ON A FIELD RUN SURVEY DATA BY BARGE DESIGN SOLUTIONS.
7. THE LOCATION OF EXISTING UTILITIES, PUBLIC OR PRIVATE, ARE APPROXIMATE ONLY. THE EXISTENCE AND EXACT LOCATION OR LOCATIONS OF ALL UTILITIES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
8. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE STARTING ANY WORK. DAMAGES TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED ACCORDING TO LOCAL STANDARDS AND SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES. ALSO, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL INSPECTORS A MINIMUM 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY WITH GOVERNING AGENCY
10. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN, WHICH RESULTS FROM NEW CONSTRUCTION, SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD ELECTRICAL WIRES AND SERVICES.
12. IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
13. THESE PLANS, PREPARED BY BARGE DESIGN SOLUTIONS, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK.
14. ON-SITE PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS AND THE GEOTECHNICAL ENGINEERING REPORT.
15. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
16. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW.
17. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING VEGETATION DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ON COPY OF THE CURRENT CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED PERMITS.
21. TRAFFIC CONTROL, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, COUNTY, AND TDD TRAFFIC DEPARTMENTS SHALL BE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY.
22. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
23. THE CONTRACTOR WILL PROVIDE ALL CONSTRUCTION STAKING AND PROVIDE COPIES OF THE SAME, INCLUDING CUT SHEETS, IF REQUESTED.
24. EXTERIOR EROSION AND SEDIMENT CONTROL FACILITIES, AND TREE PRESERVATION MEASURES SHALL BE PLACED PRIOR TO THE START OF ON-SITE GRADING ACTIVITIES.
25. CONSIDERATION SHALL BE GIVEN AT ALL TIMES FOR SAFE TRAVEL OF ALL PEDESTRIAN AND VEHICULAR TRAFFIC THAT MAY OCCUR DURING CONSTRUCTION PERIOD.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE AND APPROPRIATE SLOPE TO DRAIN ALL WALKS AND SWALES, REGARDLESS OF WHETHER THE PLANS GRAPHICALLY PORTRAY OR INDICATE SLOPE. FINAL CONSTRUCTION SHALL NOT PERMIT PONDING OF WATER IN ANY PAVED AREAS.

GRADING NOTES

- 1. ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE AND ANY PROPOSED PROFILES AND/OR CROSS-SECTIONS REPRESENT THE SAME FINISHED SURFACE.
2. ALL PROPOSED GRADING SHALL BE CONSIDERED UNCLASSIFIED. IT IS UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR OTHER MATERIALS ON THE DRAWINGS IS NOT AN INDICATION OF CLASSIFIED EXCAVATION.
3. ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CHATTANOOGA STANDARD SPECIFICATIONS AND DETAILS.
4. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY OWNER'S REPRESENTATIVE AND CITY ENGINEER.
5. ALL TOPSOIL, FILL MATERIAL, EXISTING FOUNDATIONS, UTILITIES, UNDER GROUND TANKS, PAVEMENT, BASE AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW ANY STRUCTURES.
6. THE CONTRACTOR SHALL ADJUST FINAL GRADES AT EXISTING PAVEMENTS TO ASSURE A SMOOTH TRANSITION.
7. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FOR ALL NATURAL AND PAVED AREAS.
8. AFTER REMOVAL OF TOPSOIL CONSTRUCT EMBANKMENTS BY DISTRIBUTING THE MATERIAL IN SUCCESSIVE, UNIFORM HORIZONTAL LAYERS NO MORE THAN 8" THICK.
9. COMPACT THE EMBANKMENT AREAS TO A DENSITY OF AT LEAST 95% OF MAXIMUM DENSITY OR, IN STRUCTURE OR PAVING AREAS TO AT LEAST 100% OF MAXIMUM DENSITY FOR TOP TWO FEET AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
10. THE CONTRACTOR IS TO DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL AS DIRECTED BY THE A/E.
11. CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
12. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME.
13. IN NO CASE SHALL SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS.
14. THE CONTRACTOR SHALL CONSTRUCT EROSION CONTROL MEASURES AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
15. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK.
16. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS.
17. ALL UN-SURFACED AREA DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL.
18. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA.
19. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
20. CONSTRUCTION EXIT(S) SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLES.
21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
22. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT (1' FOOT).
23. THIS GRADING AND DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF SURFACE CONDITIONS FOR THE WORK INDICATED.
24. DO NOT DISTURB VEGETATION OR REMOVE ANY EXISTING TREES EXCEPT WHERE DESIGNATED ON THE PLAN.
25. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE SHOWN ON THE PLAN UNLESS OTHERWISE NOTED.

EROSION CONTROL NOTES

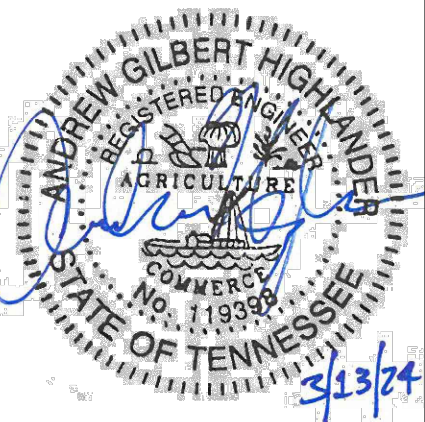
- 1. NO VEGETATION IS TO BE DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
2. TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED, AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".
3. ALL GRADED AREAS INCLUDING 3:1 SLOPES ARE TO BE MULCHED AND SEEDED WITHIN 7 DAYS OF FINAL GRADING.
4. ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
5. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED WITH SUCH SEDIMENT.
6. WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF THE ENGINEER, THEY SHALL BE REMOVED.
7. THE CONTRACTOR SHALL REPLACE SILT BARRIERS WHEN CONDITIONS WARRANT AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND CITY ENGINEER.
8. THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE BASE OF ANY STOCK PILES.
9. THE CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA.
10. ALL UNDISTURBED AREAS INCLUDING WETLAND/STREAM BUFFERS, SHALL BE FIELD MARKED AND KEPT FREE OF CONSTRUCTION EQUIPMENT.
11. CURRENT VERSIONS OF THE STORM WATER POLLUTION PREVENTION PLAN, NOTICE OF INTENT, AND NOTICE OF COVERAGE SHALL BE KEPT ON SITE AND IS TO BE ACCESSIBLE FOR THE DURATION OF THE PROJECT.
12. THE CONTRACTOR SHALL APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA.
13. THE CONTRACTOR SHALL MULCH WITH STRAW AT A RATE OF 100 LBS/1000 S.F. OVER THE SEEDED AREAS.
14. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDEC EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH TDEC REQUIREMENTS.
16. THE SITE SHALL BE STABILIZED WITHIN 14 DAYS AFTER CONSTRUCTION HAS TEMPORARILY/PERMANENTLY CEASED.
17. VEGETATION AND EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT ARE AFFECTED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITHIN 7 DAYS.
18. ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO ACCEPTANCE.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN IN SERVICE.
2. ALL EXISTING STORM DRAINAGE AND SANITARY SEWER APPURTENANCES, STRUCTURES, AND PIPES SHALL REMAIN UNLESS DESIGNATED OTHERWISE.
3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES.
4. THE CONTRACTOR SHALL VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND LINES CLEARED TO ASSURE SAFE DEMOLITION.
5. ALL UTILITY CONSTRUCTION/DEMOLITION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL UTILITY COMPANY, THE CITY OF CHATTANOOGA, AND THE GOVERNING AGENCIES OF THE STATE AND FEDERAL GOVERNMENTS.
6. THE CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO THE START OF DEMOLITION.
7. UTILITY CONTACTS:
EPB - DAVID HENDERSON (423) 648-3247
AT&T - BRIAN PRIDDY (423) 266-1638
EASTSIDE UTILITY DISTRICT - KALEB THOMPSON (423) 490-9522
CHATTANOOGA GAS (AGL) - JANA PAPA-HALL (423) 490-4315

UTILITY NOTES

- 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID.
3. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES.
4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. ANY EXISTING STORM SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER.
6. IF ANY SANITARY SEWER IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY'S OWNER.
7. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND INVERTS OF ALL EXISTING UTILITY LINES AND STRUCTURES BEFORE THE COMMENCEMENT OF CONSTRUCTION.
8. SEWER SERVICE LINE CLEAN-OUT ASSEMBLY SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF LOCAL UTILITY COMPANY PROVIDER.
9. ALL PUBLIC AND PRIVATE WATER MAINS SHALL COMPLY WITH NFPA 13 AND 24 UNLESS LOCAL JURISDICTION STATES OTHERWISE.
10. ALL PROPOSED SANITARY SEWER LINES SHALL BE INSTALLED IN ACCORDANCE WITH CITY AND STATE STANDARD DETAILS AND SPECIFICATIONS.
11. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AT LEAST 7 DAYS PRIOR TO THE START OF SEWER CONSTRUCTION.
12. ALL SEWER LINES SHALL BE TESTED AND APPROVED AFTER ALL OTHER UTILITIES HAVE BEEN INSTALLED.
13. ALL CUTS AND FILLS ARE TO BE IN PLACE AND FILLS COMPACTED PRIOR TO SEWER CONSTRUCTION.
14. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE.
15. SERVICE LATERALS EXTENDING TO THE PROPERTY LINE SHALL EACH HAVE A CLEANOUT AT THE PROPERTY LINE.
16. UPON COMPLETION OF THE PROJECT, "RECORD" DRAWINGS MUST BE SUBMITTED TO THE JURISDICTIONAL ENGINEER WITHIN 30 DAYS.
17. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ANY APPLICABLE FEES.

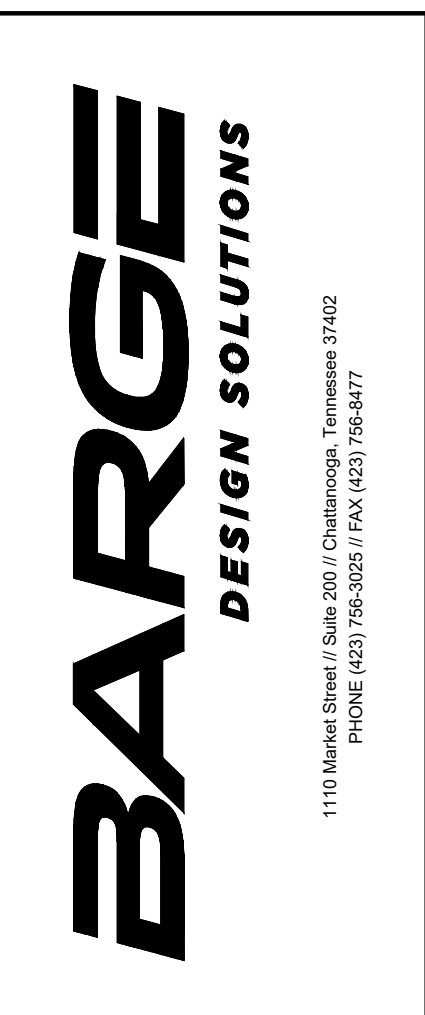


GENERAL NOTES
HAMILTON COUNTY SCHOOLS
OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION
HAMILTON COUNTY, TN

Table with 4 columns: REV, DR, CHK, DATE. Row 1: 0, 0, 0, 03/13/2024.

C0.01
FILE NO. 38505-00

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FILE:J:\38505\385050004\_CAD\CIVIL\OHS\PL01\3850500-OHS-C0.01.dwg
SAVED: 2/18/2024
PLOTTED: 3/13/2024



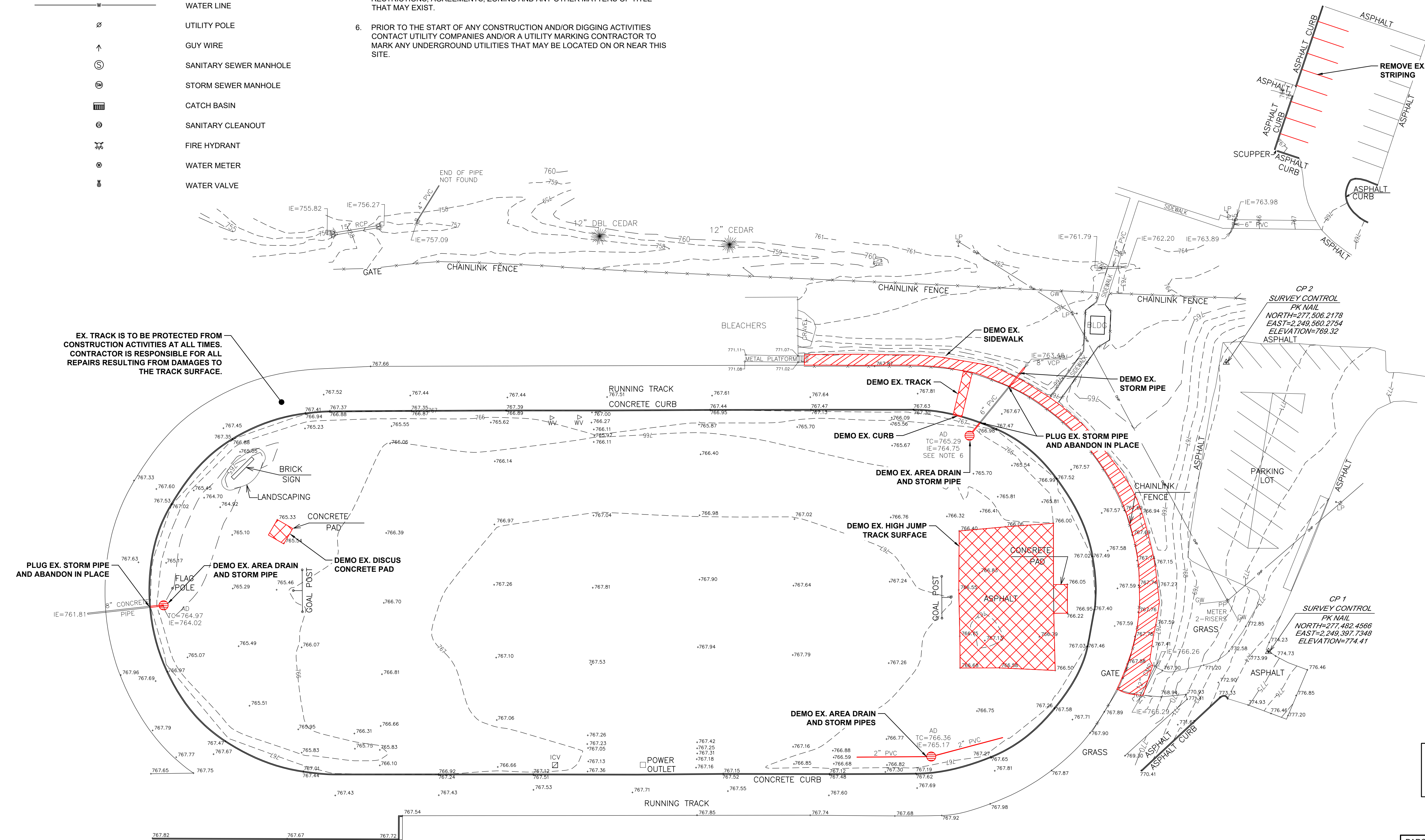
1110 Mineral Street / Suite 200 / Chattanooga, Tennessee 37402
PHONE: (423) 756-6522 / FAX: (423) 756-6477

**SURVEY LEGEND**

- 520----- CONTOUR LINE (MAJOR)
- 519----- CONTOUR LINE (MINOR)
- OH----- OVERHEAD POWER LINE
- SA----- SANITARY SEWER LINE
- ST----- STORM SEWER LINE
- G----- NATURAL GAS LINE
- W----- WATER LINE
- Ø UTILITY POLE
- ↑ GUY WIRE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM SEWER MANHOLE
- ⊙ CATCH BASIN
- ⊙ SANITARY CLEANOUT
- ⊙ FIRE HYDRANT
- ⊙ WATER METER
- ⊙ WATER VALVE

**SURVEY NOTES**

1. NORTH ORIENTATION BASED ON TENNESSEE STATE GRID, NORTH AMERICAN DATUM 1983 (NAD 83), NO DATUM ADJUSTMENT APPLIED TO COORDINATES AS SHOWN HEREON.
2. CONTOURS AND ELEVATIONS BASED ON LOCAL GPS, CONTINUOUS OPERATING REFERENCE.
3. STATION (C.O.R.S.) NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
4. CONTOURS AND ELEVATIONS BASED ON RANDOM GROUND SHOTS.
5. THIS MAP AND SURVEY SUBJECT TO ANY RIGHTS-OF-WAY, EASEMENTS, RESTRICTIONS, AGREEMENTS, ZONING AND ANY OTHER MATTERS OF TITLE THAT MAY EXIST.
6. PRIOR TO THE START OF ANY CONSTRUCTION AND/OR DIGGING ACTIVITIES CONTACT UTILITY COMPANIES AND/OR A UTILITY MARKING CONTRACTOR TO MARK ANY UNDERGROUND UTILITIES THAT MAY BE LOCATED ON OR NEAR THIS SITE.



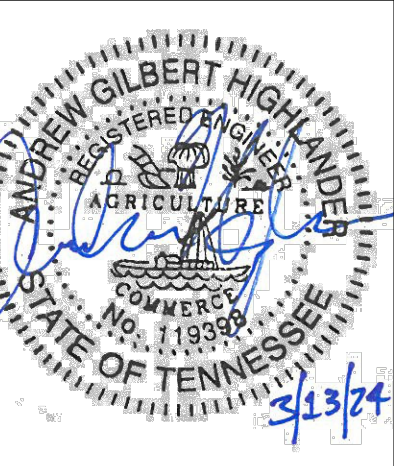
EX. TRACK IS TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS RESULTING FROM DAMAGES TO THE TRACK SURFACE.

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PARCEL ID: 123-007.01  
FEMA PANEL: ZONE "X", PANEL NO. 47065C-0379G, 0381G, & 0383G, 2/3/16.

DATUM: TNSPC (NAD83)  
NAVD 1988

BENCHMARK: TAG BOLT ON HYDRANT # 15722. ELEV. 522.30'

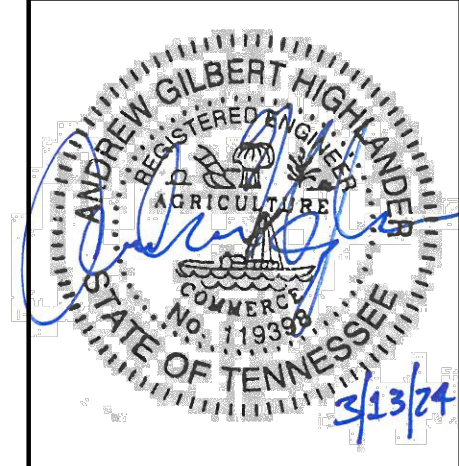


**EXISTING CONDITIONS**

HAMILTON COUNTY SCHOOLS  
OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	AGH	08/13/2024	ISSUED FOR BID

**C0.21**  
FILE NO. 38505-00



## FINISHED GRADE & LAYOUT PLAN

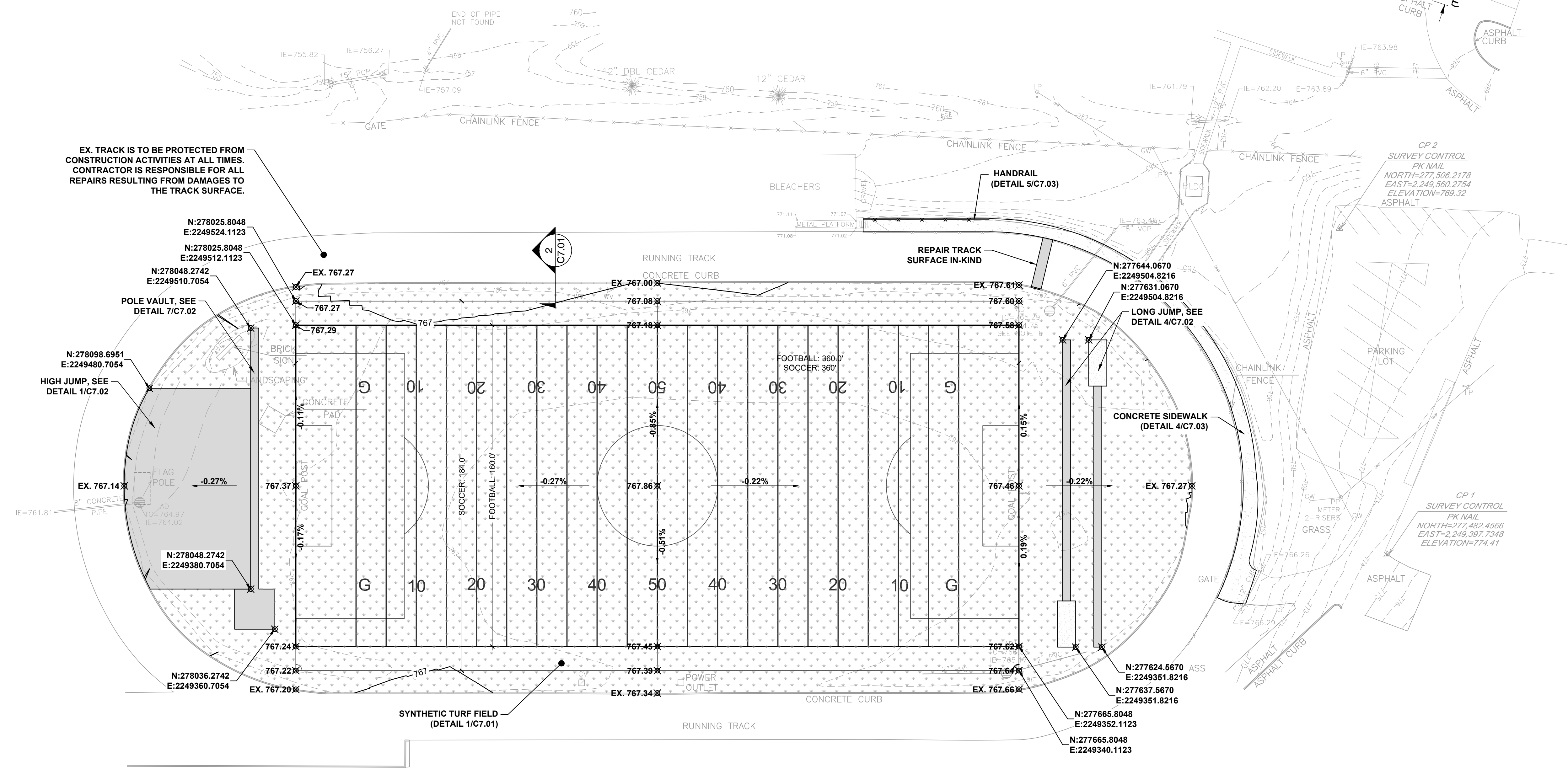
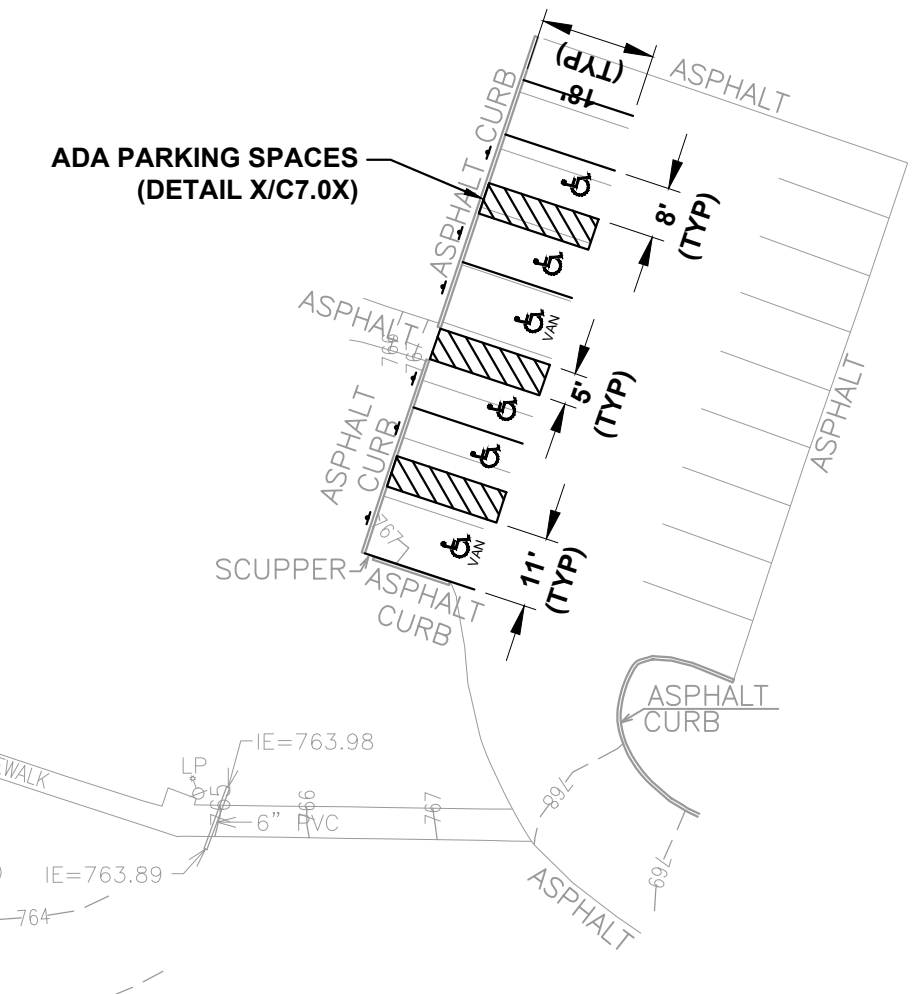
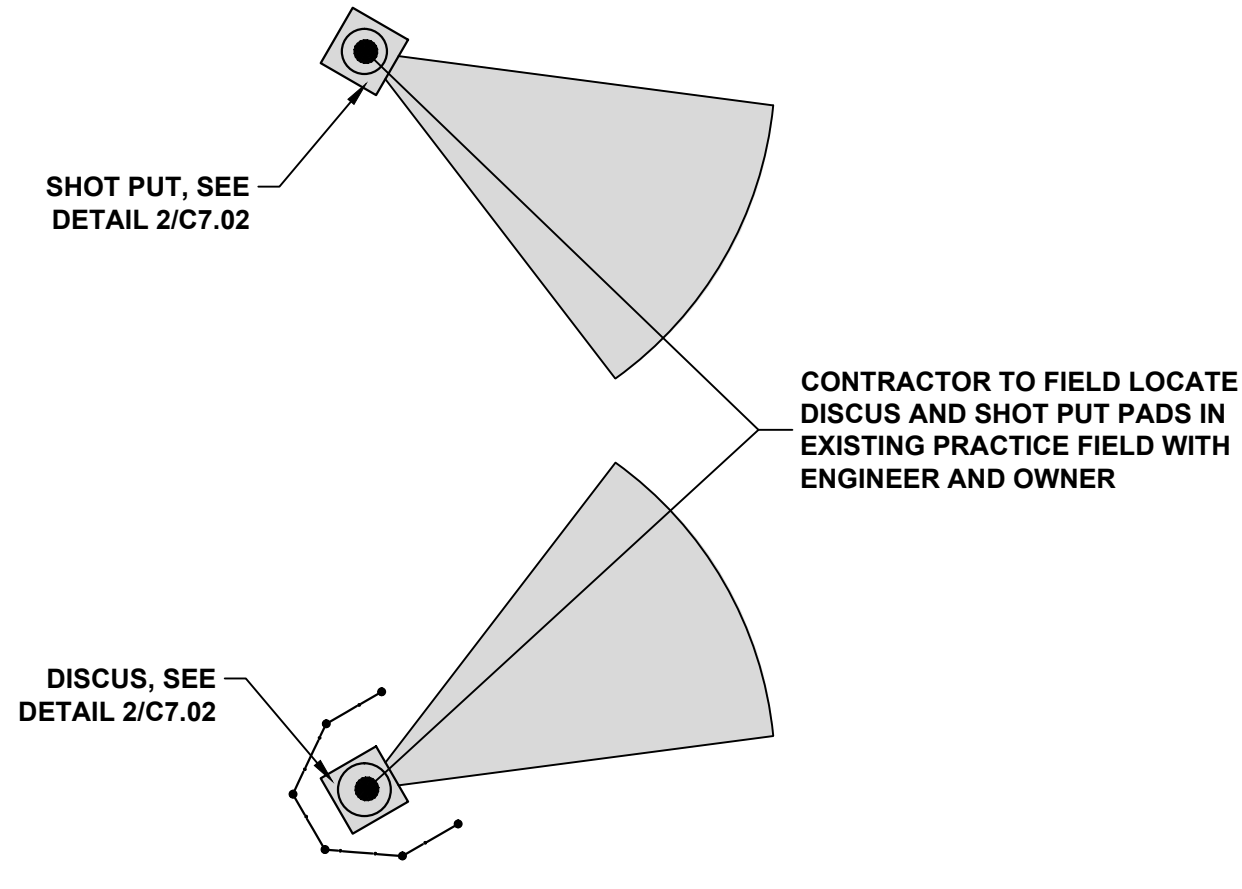
HAMILTON COUNTY SCHOOLS  
OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REV.	DATE	DESCRIPTION
0	03/13/2024	ISSUED FOR BID

**C2.01**  
FILE NO. 38505-00

### GRADING AND DRAINAGE NOTES

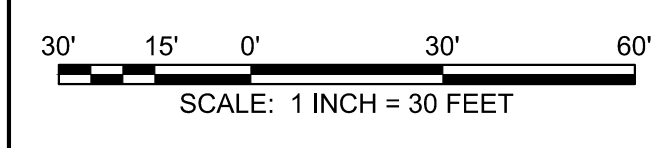
- SEE SHEET C0.01 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT FINISHED GRADE TO BE FLUSH WITH EXISTING STORM STRUCTURE CASTINGS. CONTRACTOR TO ENSURE SLOPES DRAIN TO EX. STORM STRUCTURES.
- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNERS AGENT SHALL:
  - SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS IN TENNESSEE STATE PLANE COORDINATES SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING(S) SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM
  - COMPLY WITH ALL PERMANENT LANDSCAPE REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S STORMWATER INSPECTOR. AN APPOINTMENT MAY BE MADE BY CALLING THE STORMWATER INSPECTOR A MINIMUM OF 2 BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION AND SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).



PARCEL ID: 123-007.01  
FEMA PANEL: ZONE "X", PANEL NO. 47065C-0379G, 0381G, & 0383G, 2/3/16.

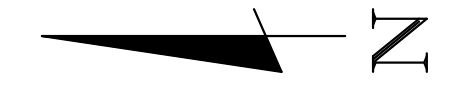
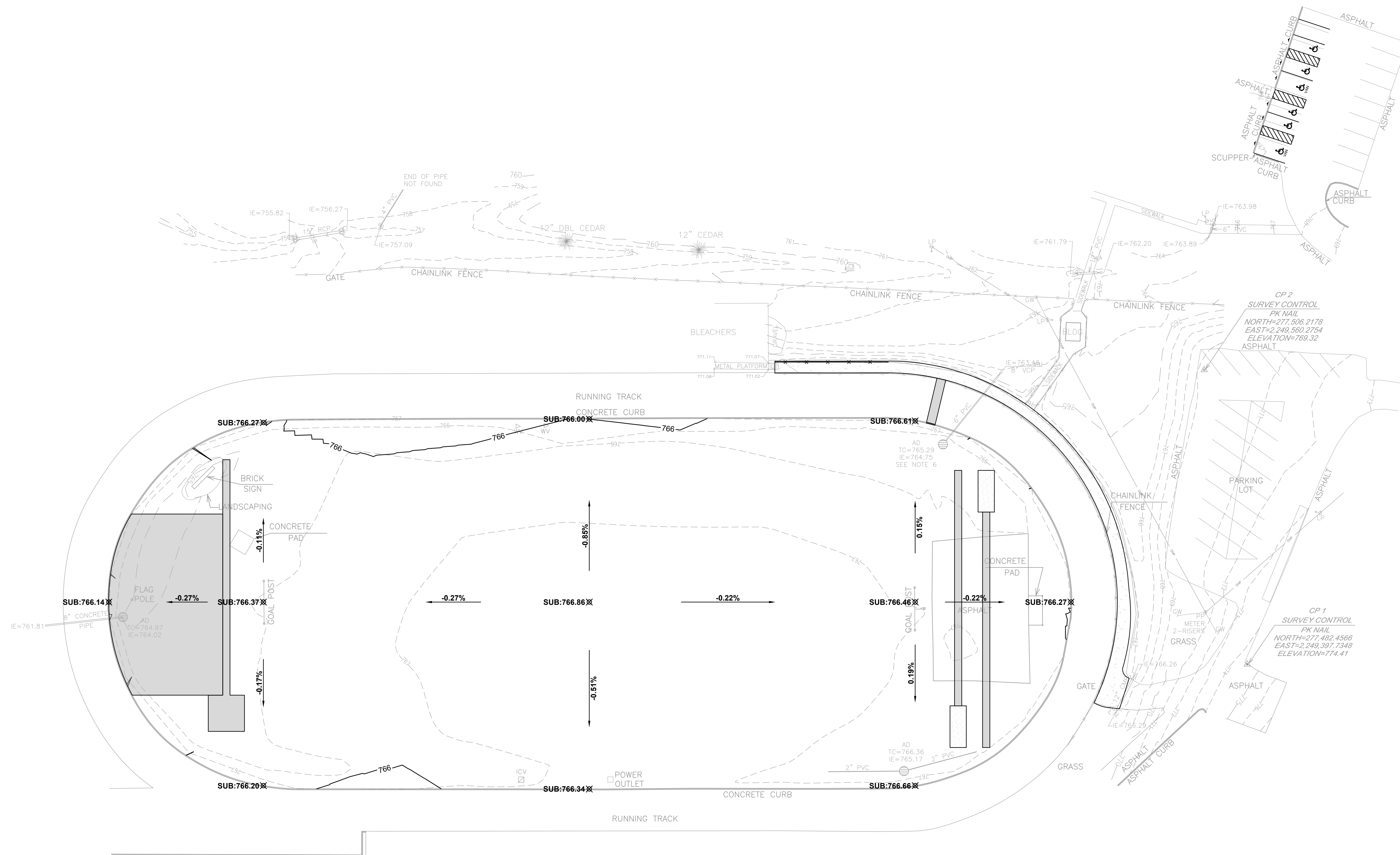
DATUM: TNSPC (NAD83)  
NAVD 1988

BENCHMARK: TAG BOLT ON HYDRANT # 15722. ELEV. 522.30'



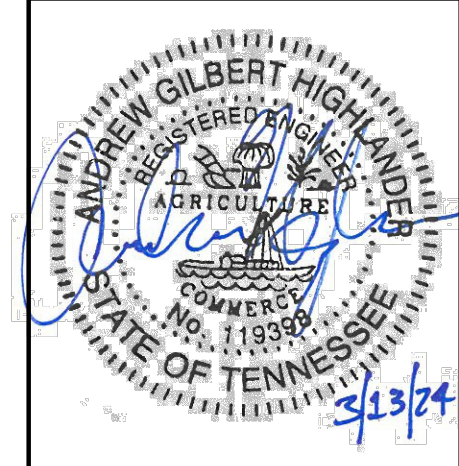
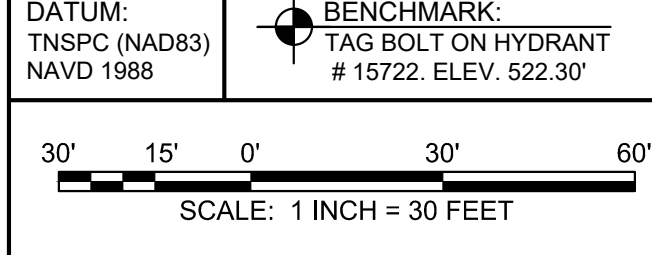
**GRADING AND DRAINAGE NOTES**

1. SEE SHEET C0.01 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.



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DATUM: TNSPC (NAD83) NAVD 1988	BENCHMARK: TAG BOLT ON HYDRANT # 15722. ELEV. 522.30'



**SUBGRADE PLAN**

HAMILTON COUNTY SCHOOLS  
 OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

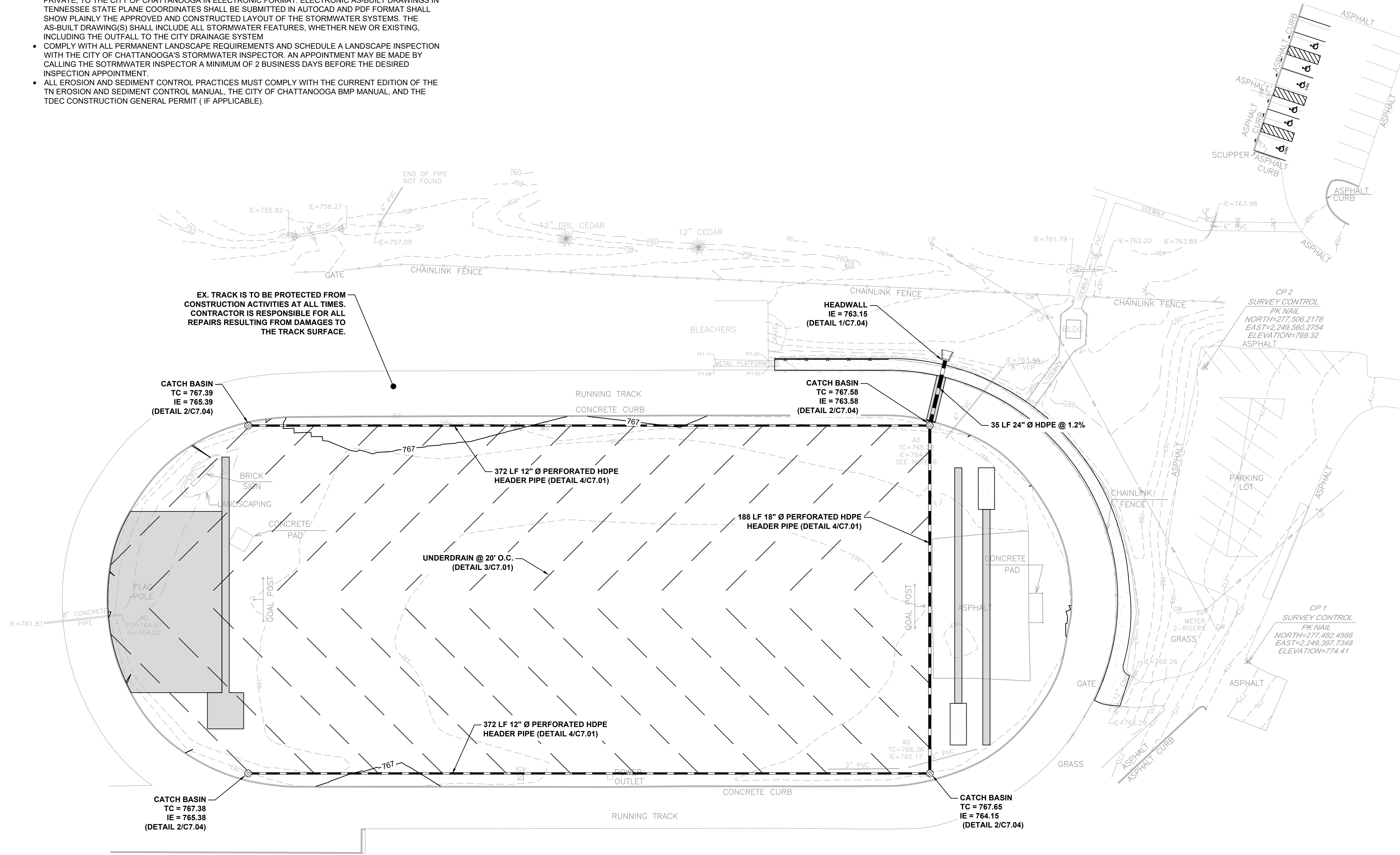
REV.	CHK.	DATE	DESCRIPTION
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**C2.11**  
 FILE NO. 38505-00



**GRADING AND DRAINAGE NOTES**

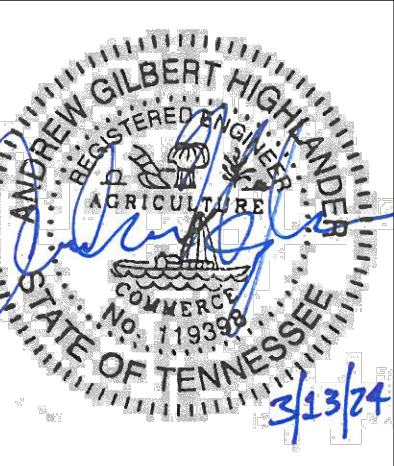
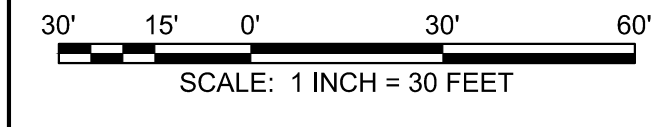
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EX. TRACK IS TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS RESULTING FROM DAMAGES TO THE TRACK SURFACE.

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DATUM: TNSPC (NAD83) NAVD 1988	BENCHMARK: TAG BOLT ON HYDRANT # 15722. ELEV. 522.30'



**DRAINAGE PLAN**  
HAMILTON COUNTY SCHOOLS  
OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	ECM	03/13/2024	ISSUED FOR BID

**C2.21**  
FILE NO. 38505-00

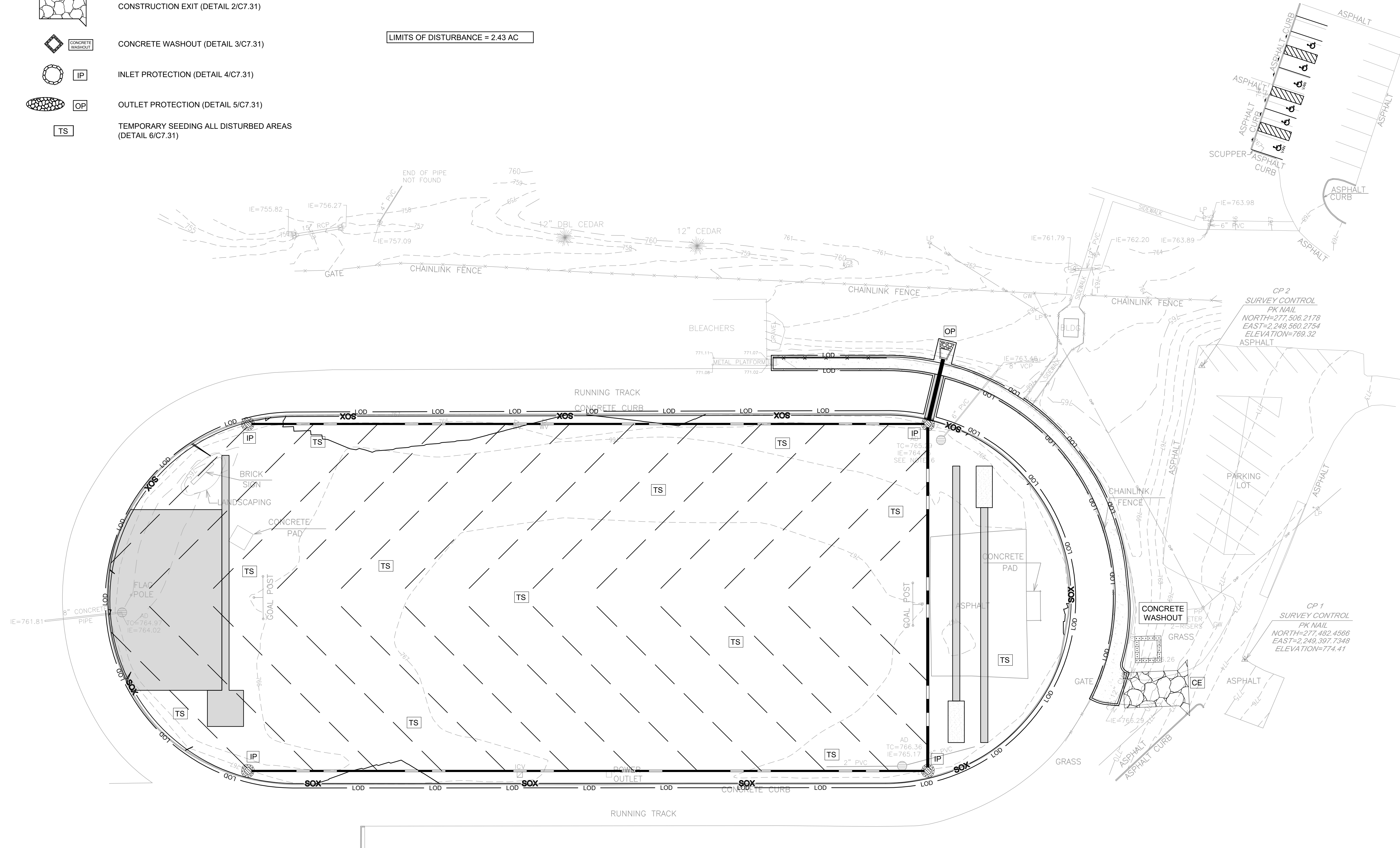
**LEGEND**

- LOD — LIMITS OF DISTURBANCE
- SOX — SILT SOXX (DETAIL 1/C7.31)
- CONSTRUCTION EXIT (DETAIL 2/C7.31)
- CONCRETE WASHOUT (DETAIL 3/C7.31)
- INLET PROTECTION (DETAIL 4/C7.31)
- OUTLET PROTECTION (DETAIL 5/C7.31)
- TEMPORARY SEEDING ALL DISTURBED AREAS (DETAIL 6/C7.31)

**GENERAL NOTES**

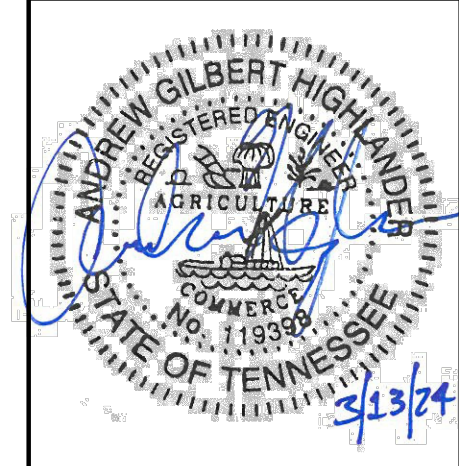
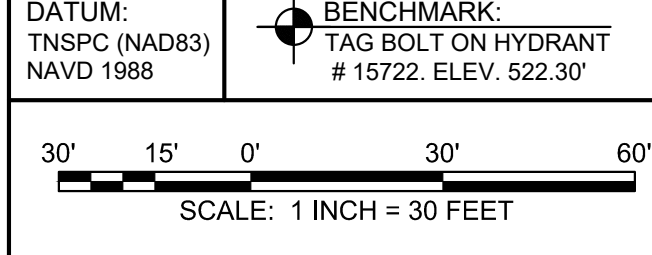
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LIMITS OF DISTURBANCE = 2.43 AC



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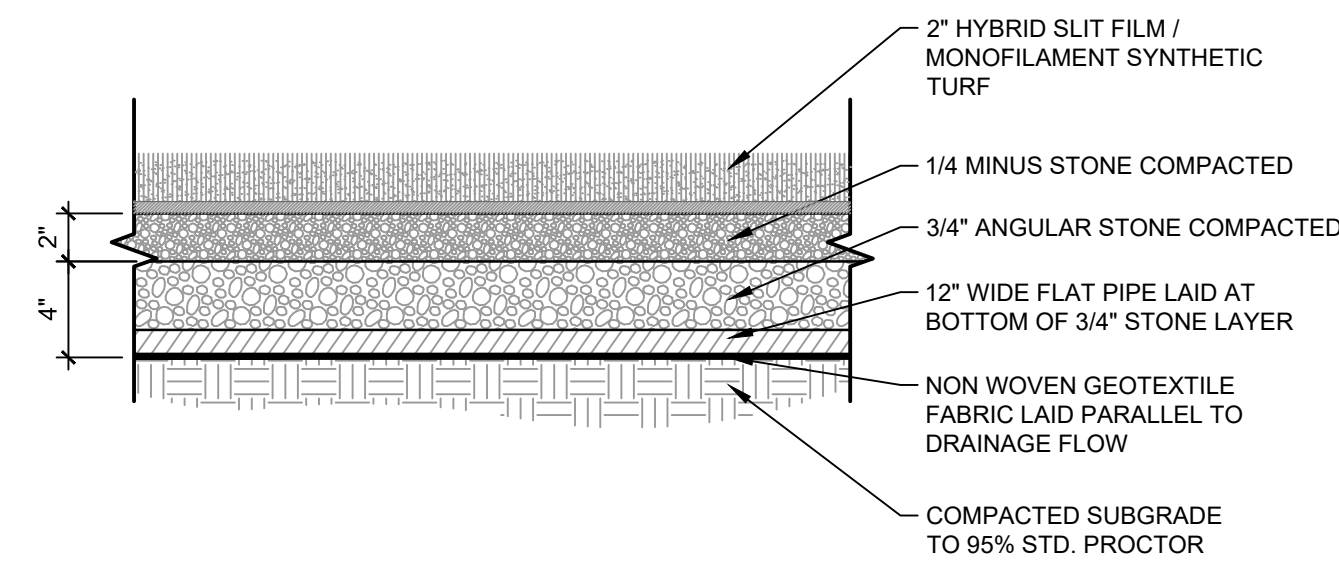
PARCEL ID:	123-007.01	FEMA PANEL:	ZONE "X", PANEL NO. 47065C-0379G, 0381G, & 0383G, 2/3/16.
DATUM:	TNSPC (NAD83) NAVD 1988	BENCHMARK:	TAG BOLT ON HYDRANT # 15722. ELEV. 522.30'



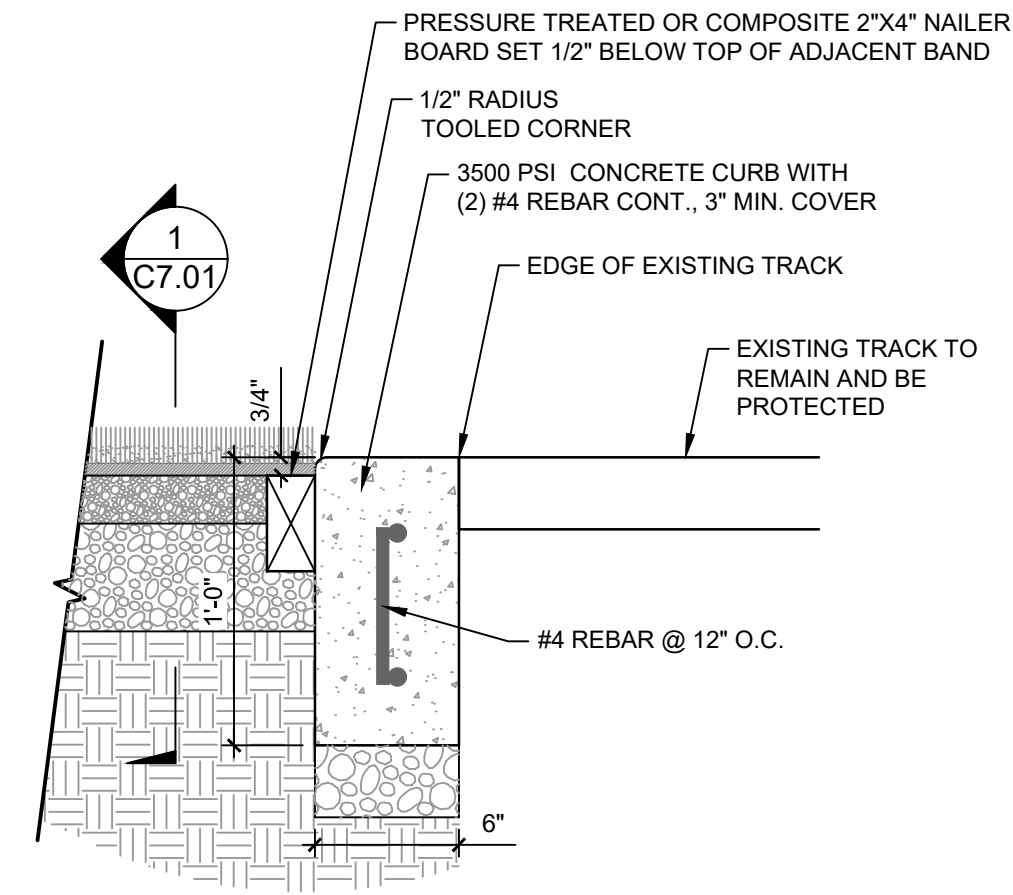
**EPSC PLAN**  
HAMILTON COUNTY SCHOOLS  
**OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION**  
HAMILTON COUNTY, TN

REV.	DR.	CHK.	DATE	DESCRIPTION
0	ECM	AGH	03/13/2024	ISSUED FOR BID

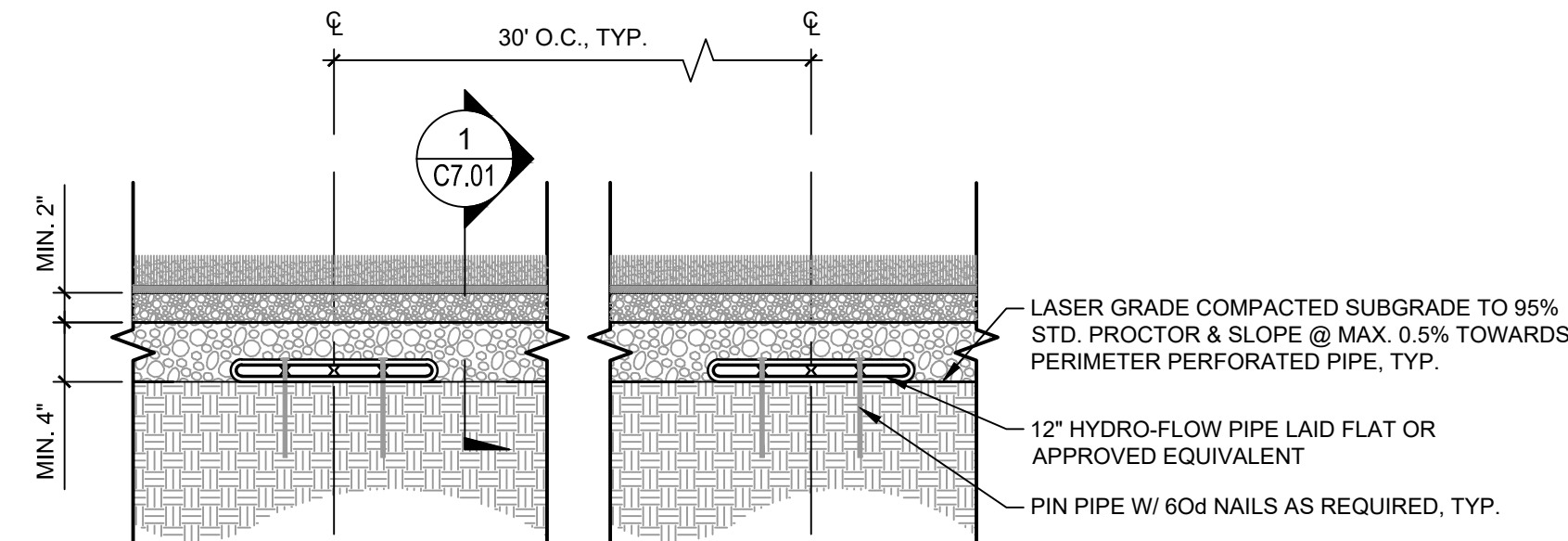
**C2.31**  
FILE NO. 38505-00



**1 SYNTHETIC TURF CROSS SECTION**  
C7.01 1 1/2" = 1'-0"

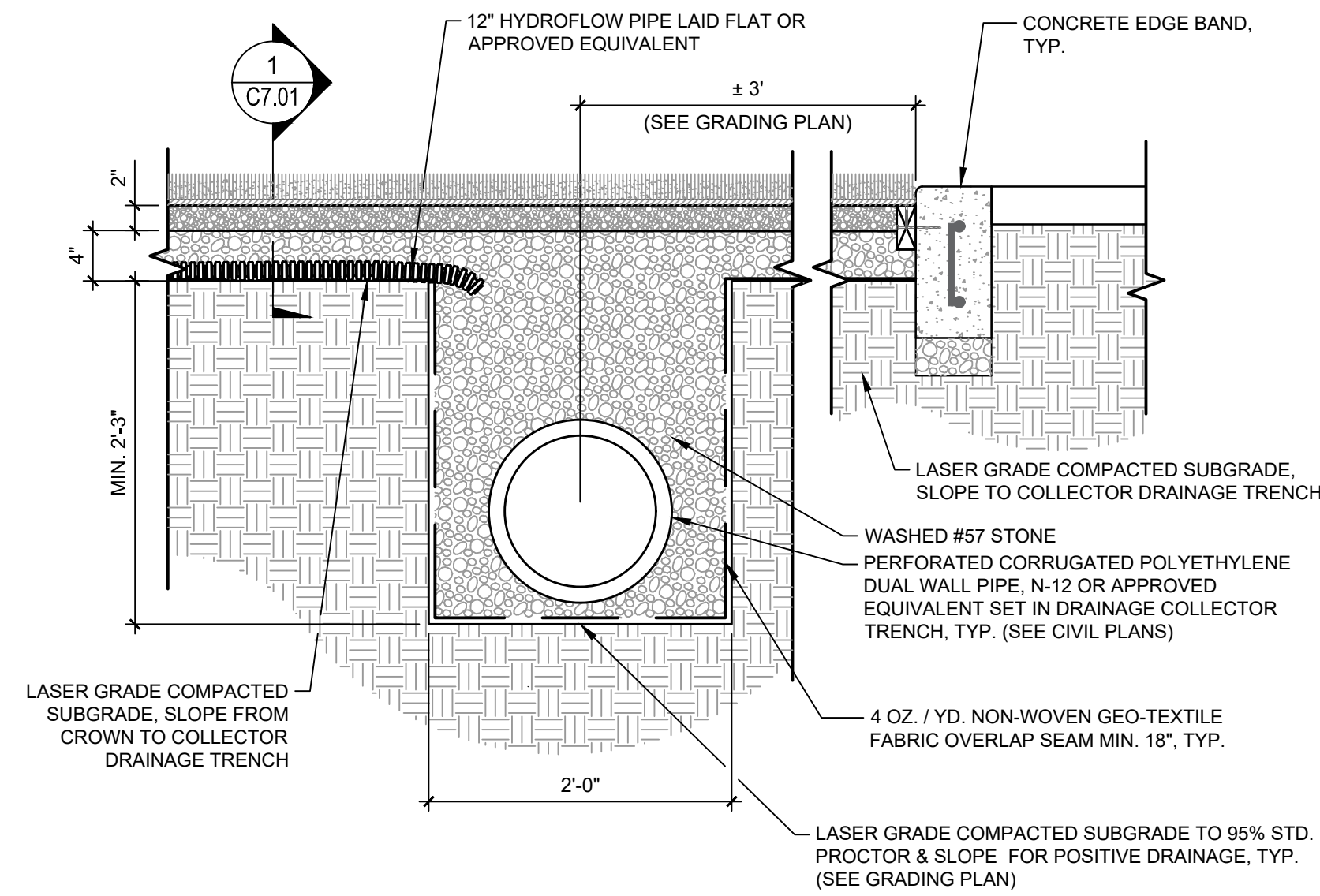


**2 CONCRETE EDGE BAND SYNTHETIC TURF / EXISTING TRACK**  
C7.01 1 1/2" = 1'-0"

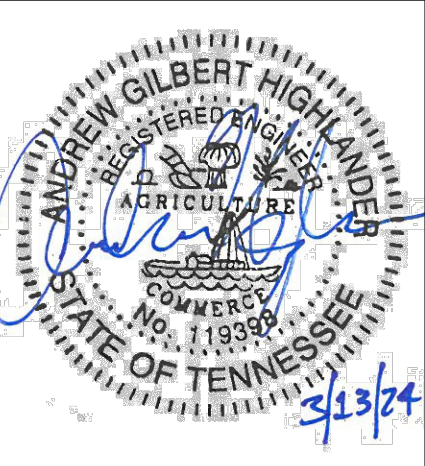


NOTE:  
 • SUBGRADE DRAINAGE SYSTEM SHOWN IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL INSTALL SUBGRADE DRAINAGE SYSTEM AS RECOMMENDED BY THE MANUFACTURER OF THE SYNTHETIC TURF. DRAINAGE SHALL BE TIED INTO CIVIL ENGINEER'S DRAINAGE SYSTEM.  
 • \*FOR PERMEABLE APPLICATION: MIRAFI 140N OR APPROVED EQUIVALENT. FOR SILTY/CLAY SUBGRADES W/ FINES CONTENT <35% AND A PI <20: MIRAFI 500X OR APPROVED EQUIVALENT.

**3 TYPICAL TURF FIELD SUBDRAINAGE DETAIL**  
C7.01 1" = 1'-0"



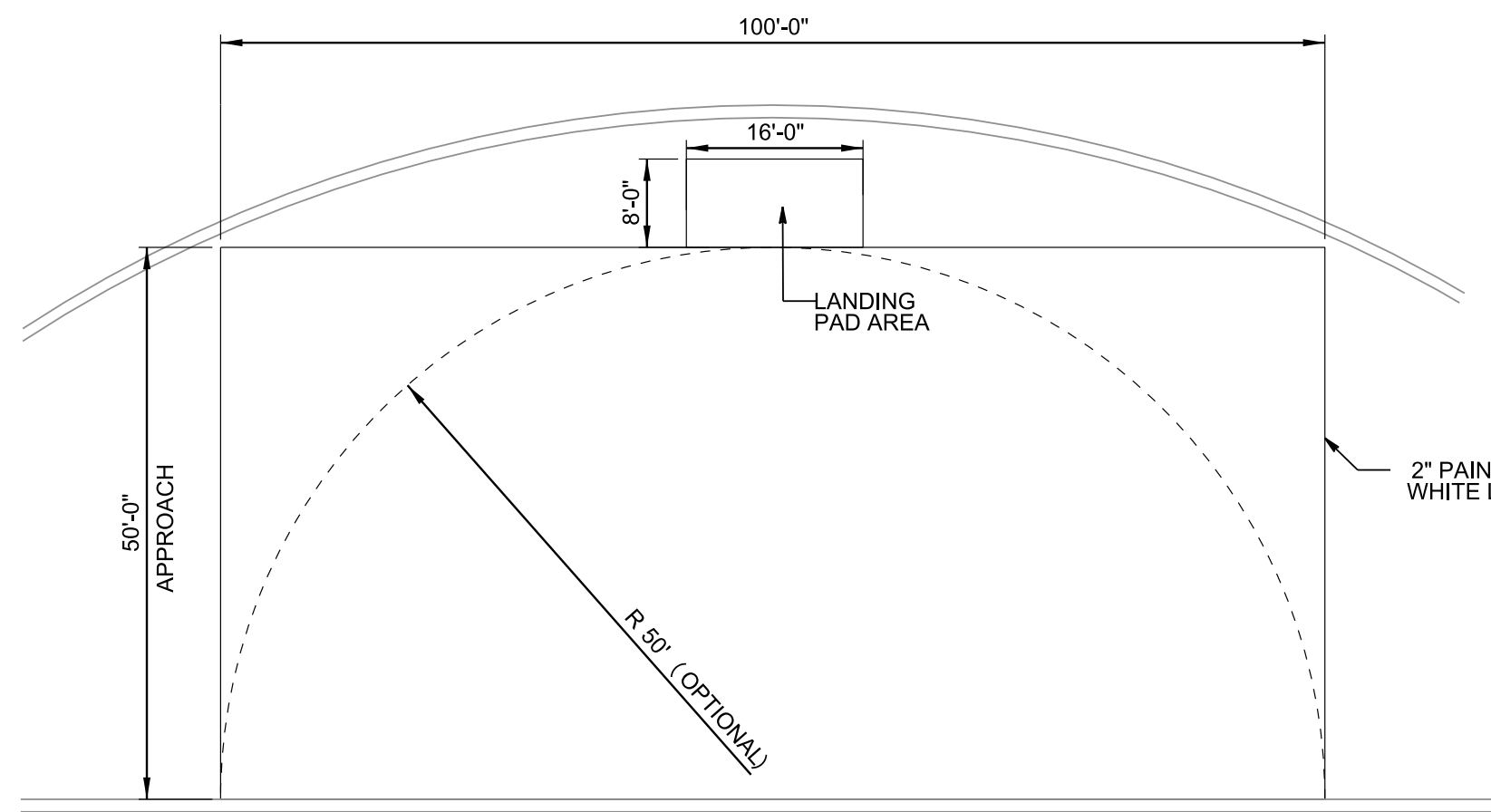
**4 SYNTHETIC TURF FIELD DRAINAGE COLLECTION**  
C7.01 1" = 1'-0"



**SITE DETAILS**  
 HAMILTON COUNTY SCHOOLS  
 OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REVISION INFORMATION		DATE	DESCRIPTION
REV.	CHK.	DATE	DESCRIPTION
0	AGH	03/13/2024	ISSUED FOR BID

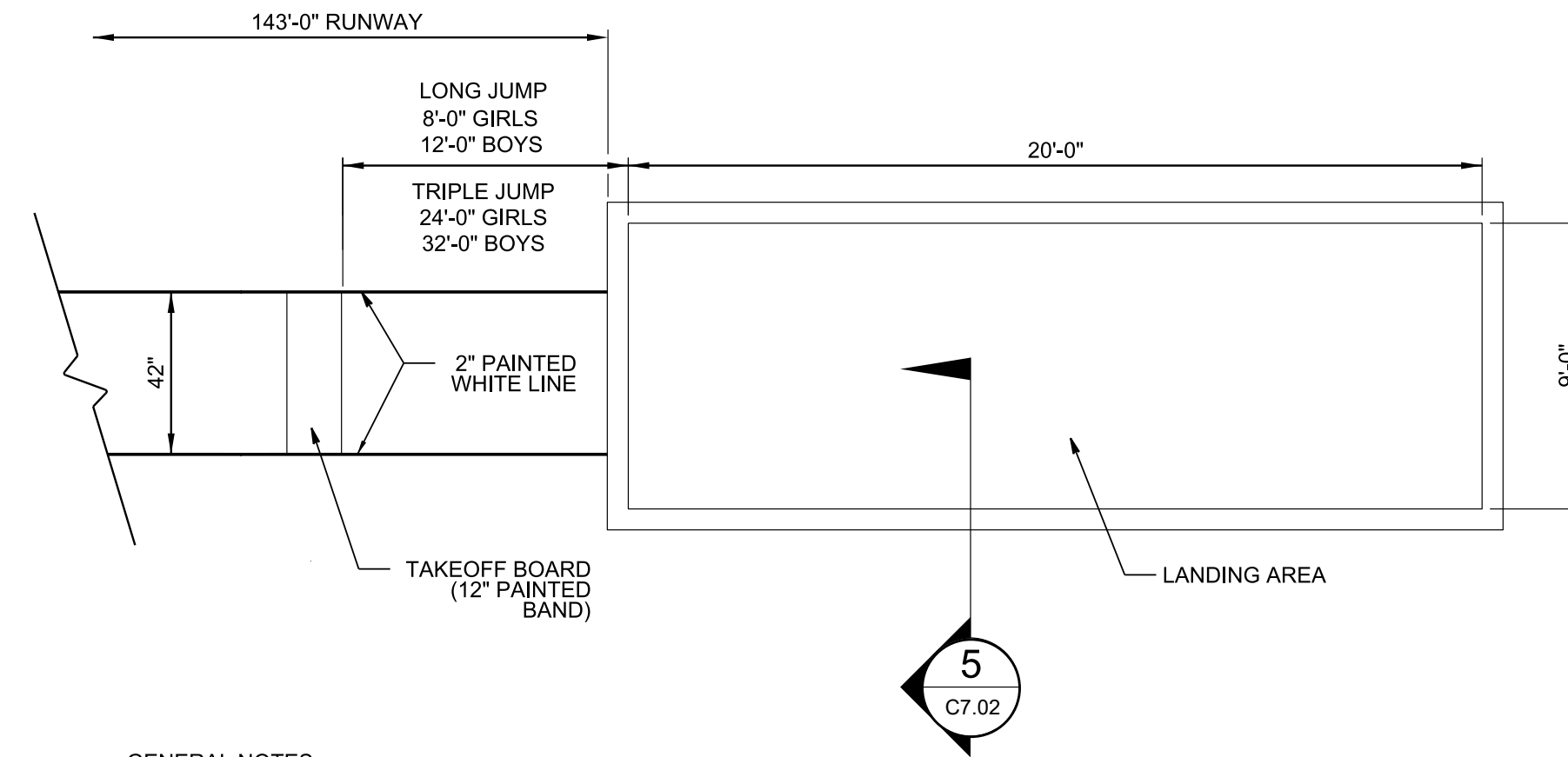
**C7.01**  
 FILE NO. 38505-00



**GENERAL NOTES:**

- HIGH JUMP SHALL MEET NFSSHA (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) FIELD EVENT STANDARDS.

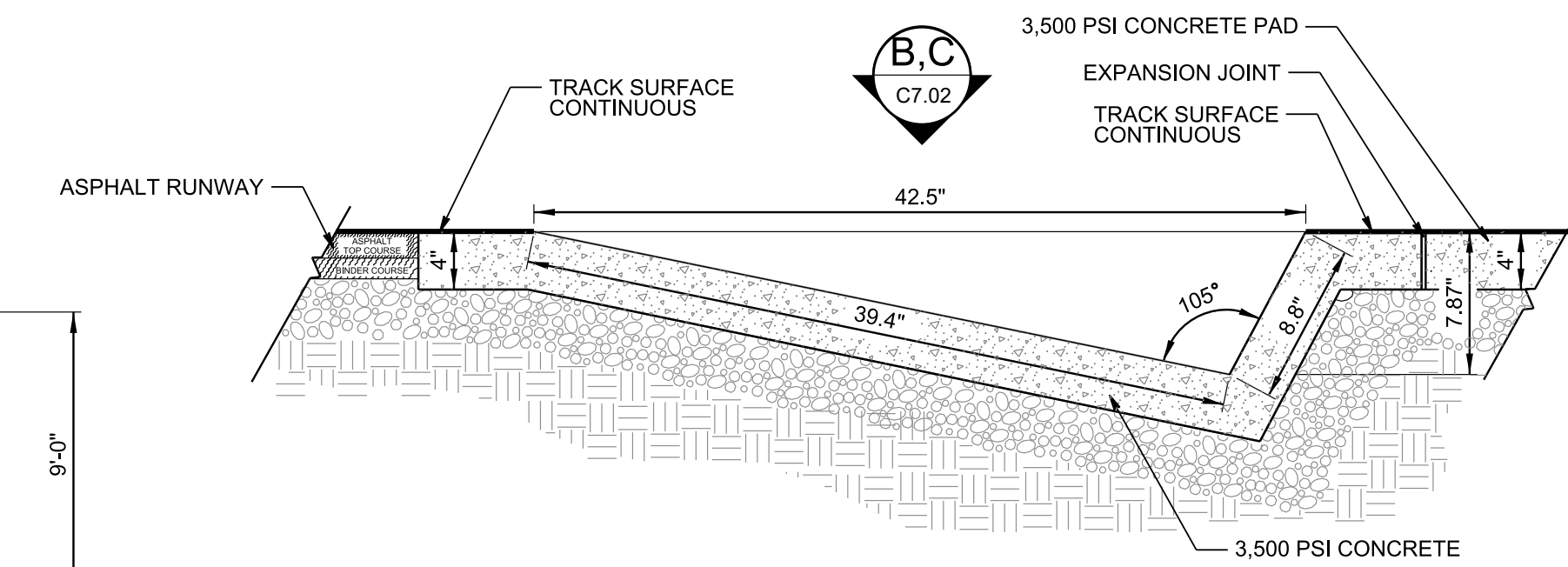
**1 HIGH JUMP DIAGRAM**  
C7.02 NTS



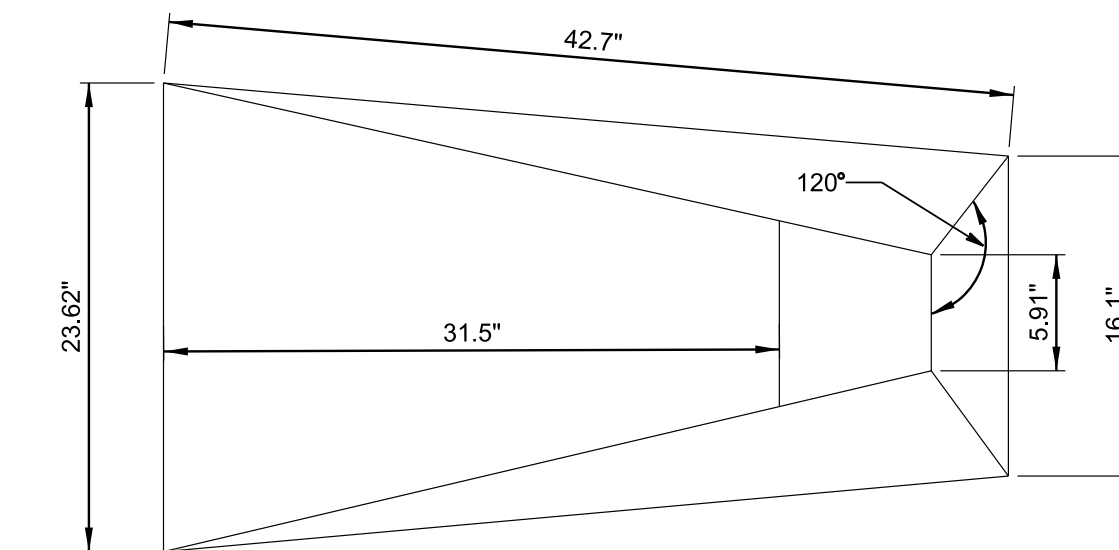
**GENERAL NOTES:**

- LONG JUMP/TRIPLE JUMP SHALL MEET NFSSHA (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) FIELD EVENT STANDARDS.
- ALL MARKINGS FOR BOYS LONG JUMP/TRIPLE JUMP SHALL BE PAINTED WHITE.
- ALL MARKINGS FOR GIRLS LONG JUMP/TRIPLE JUMP SHALL BE PAINTED YELLOW.

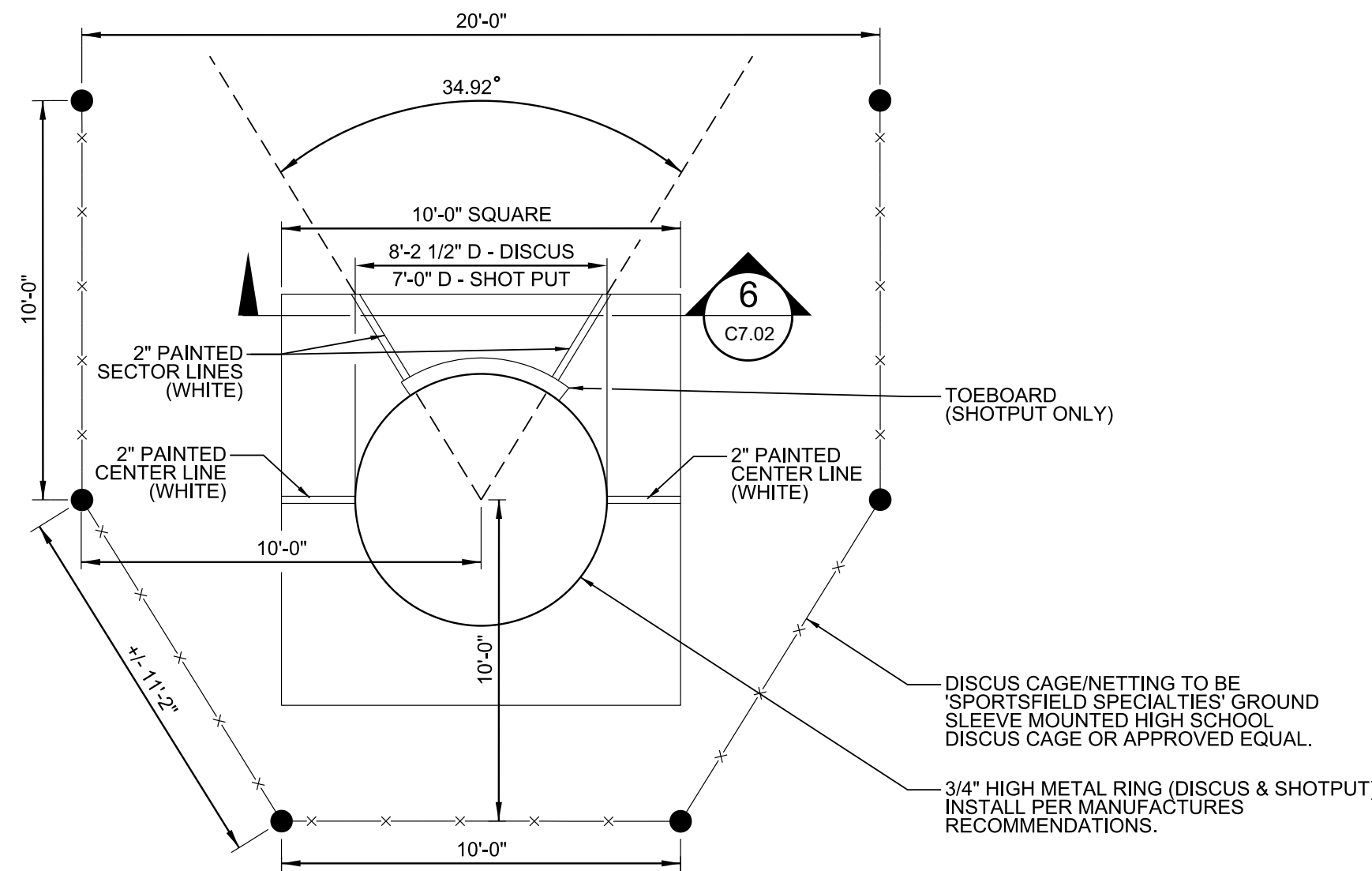
**4 LONG JUMP/TRIPLE JUMP DETAILED PLAN**  
C7.02 NTS



**A STOPBOARD SECTION**



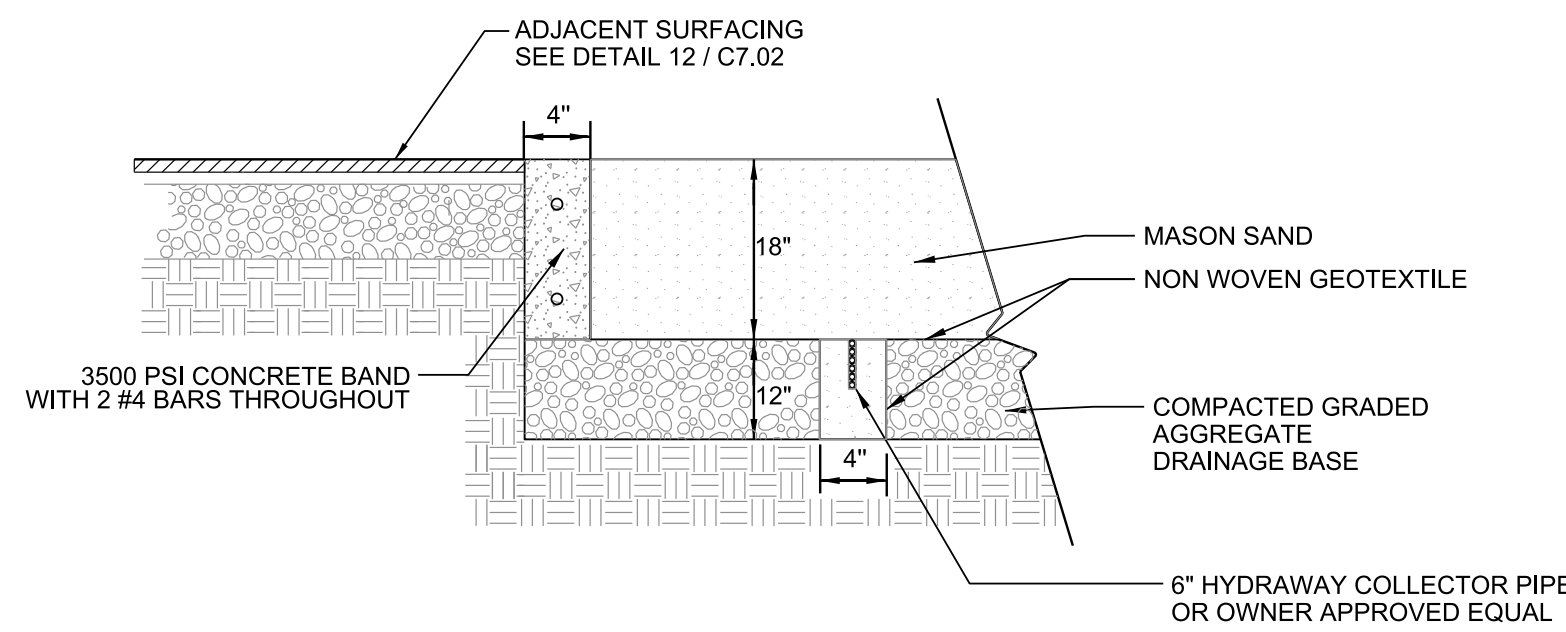
**B STOPBOARD PLAN**



**GENERAL NOTES:**

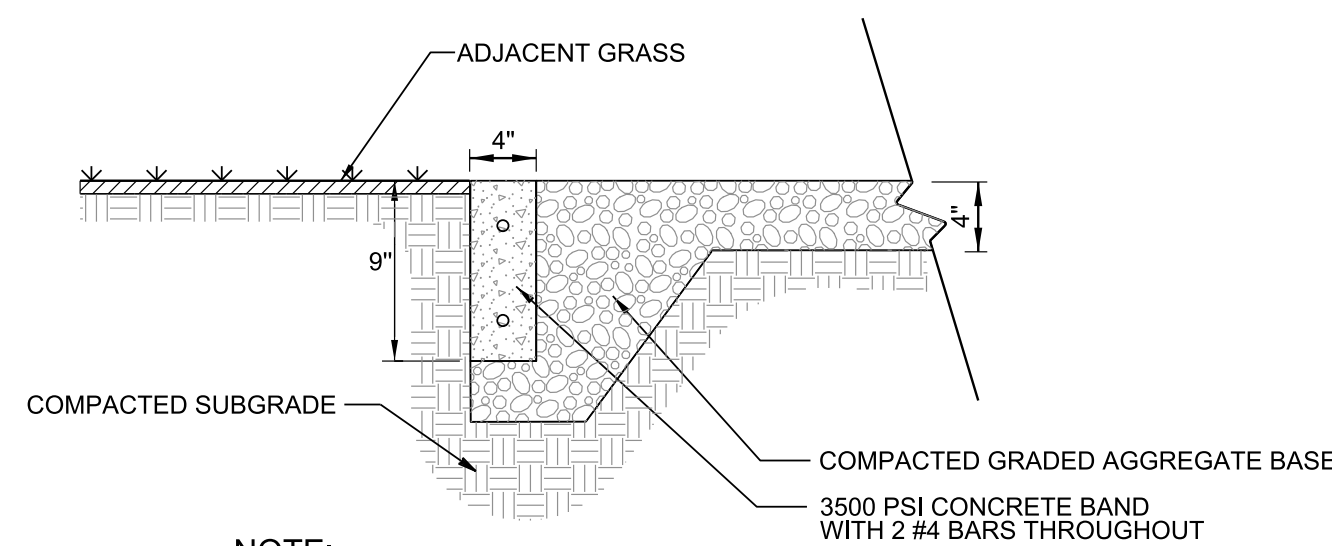
- DISCUS/SHOT PUT SHALL MEET NFSSHA (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) FIELD EVENT STANDARDS.

**2 DISCUS/SHOT PUT PAD & FENCING DETAIL**  
C7.02 NTS



**5 LONG JUMP LANDING SECTION**  
C7.02 NTS

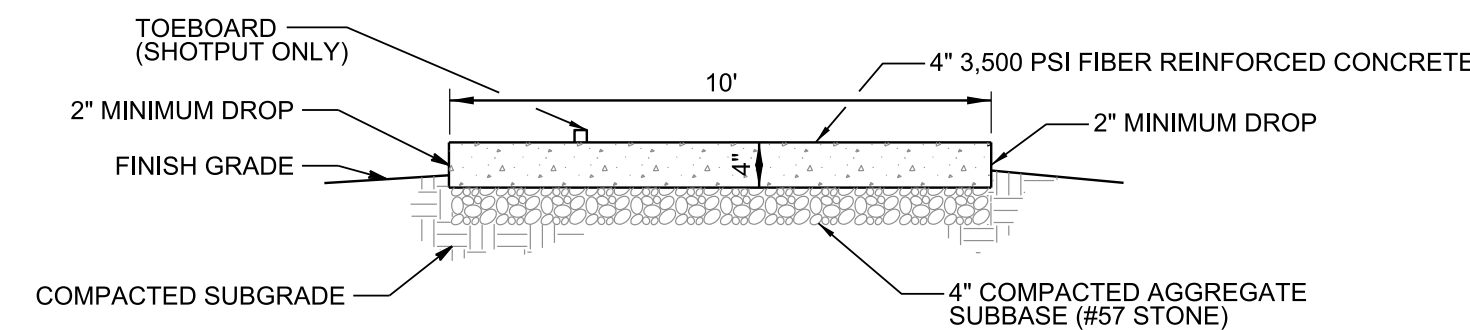
INSTALL HYDROWAY IN THE CENTER OF THE TRENCH. BACKFILL MATERIAL SHOULD BE A VERY COARSE SAND. MIN. RECOMMENDED SLOPE 1%.



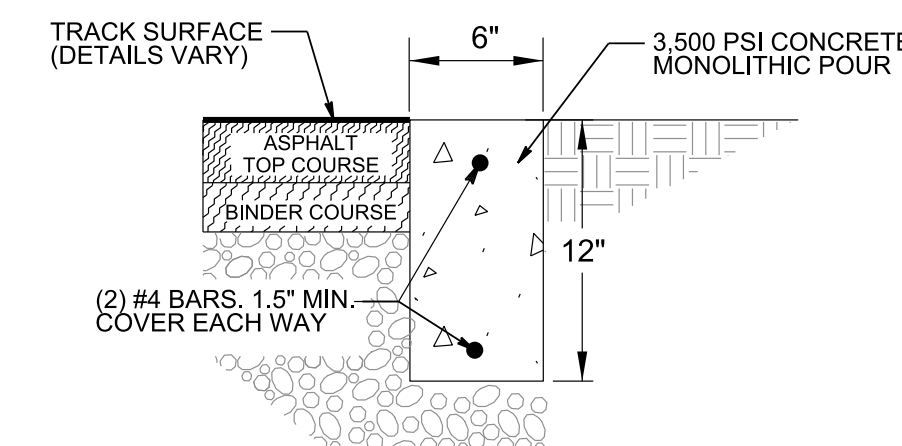
**NOTE:**

- SHOT PUT AGGREGATE DEPTH AND SURFACE AREA TO MEET NHFS FIELD EVENT STANDARDS.

**3 SHOT PUT LANDING AREA SECTION**  
C7.02 NTS



**6 DISCUS/SHOT PUT PAD SECTION**  
C7.02 NTS

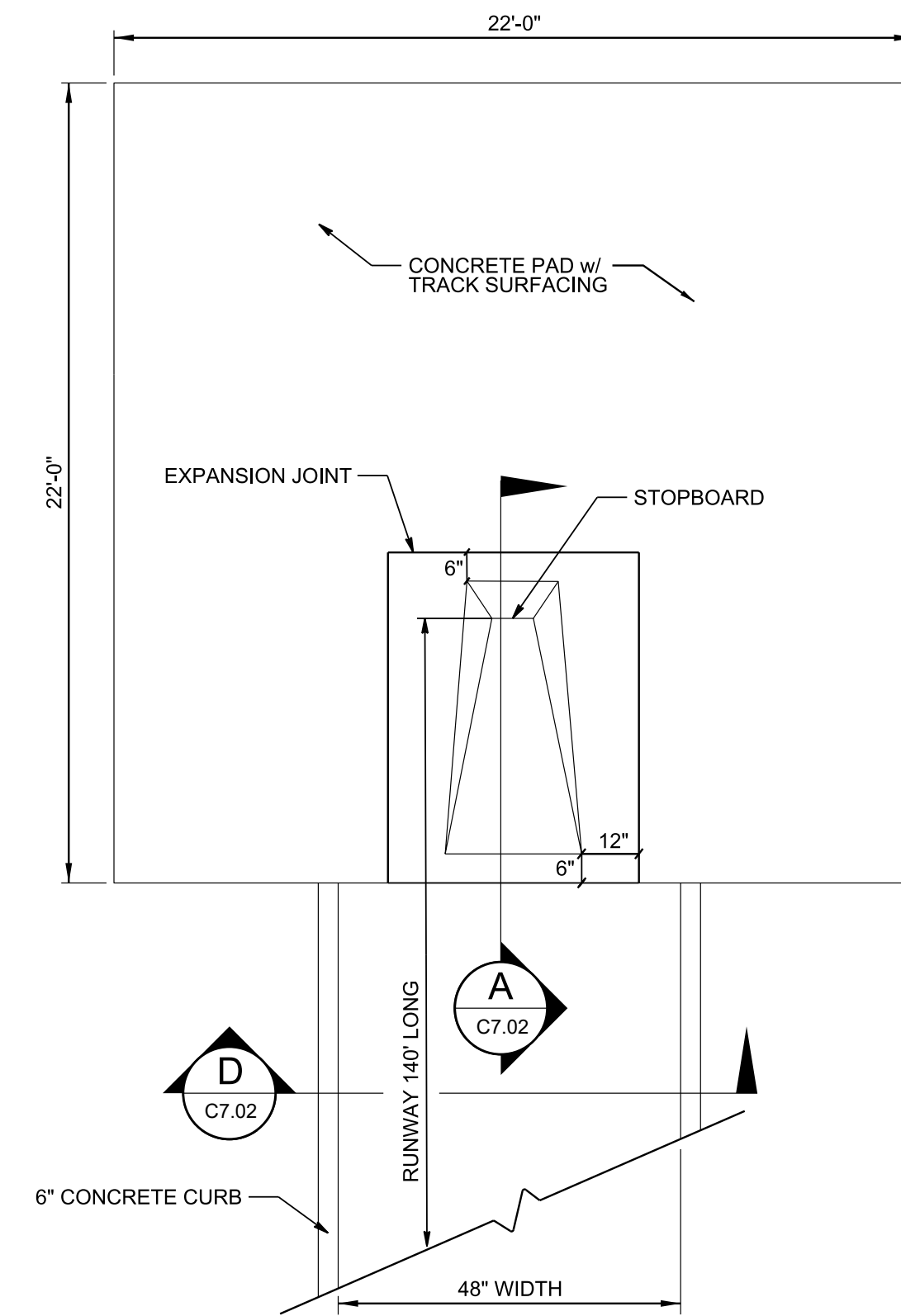


**D RUNWAY SECTION**

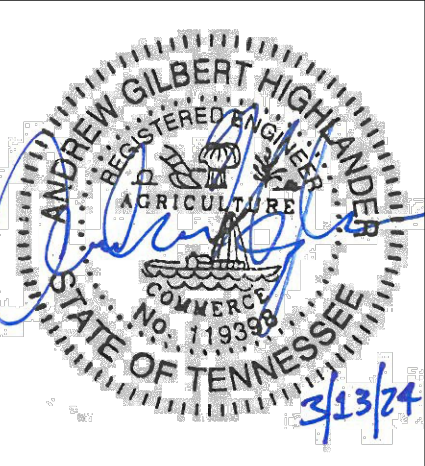
**GENERAL NOTES:**

- POLE VAULT SHALL MEET NFSSHA (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) FIELD EVENT STANDARDS.
- STOP BOARD TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

**7 POLE VAULT DIAGRAM**  
C7.02 NTS

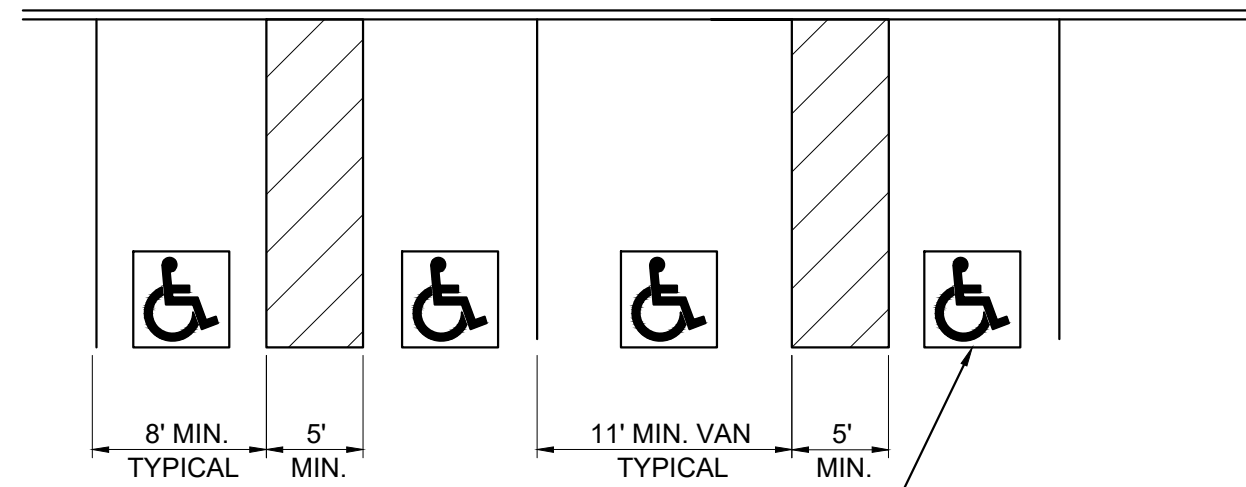


**C OVERALL PLAN**



REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID
1	08/13/2024
2	
3	
4	
5	
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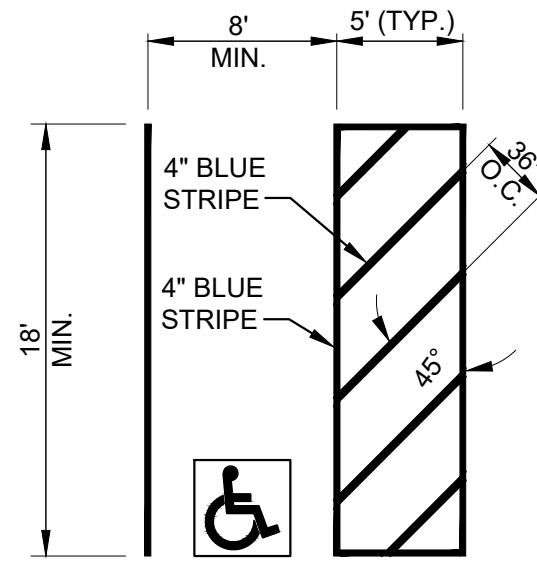
2 SIGN C7.03 ACCESSIBLE  
SIGN VAN ACCESSIBLE (SEE PLAN) C7.03



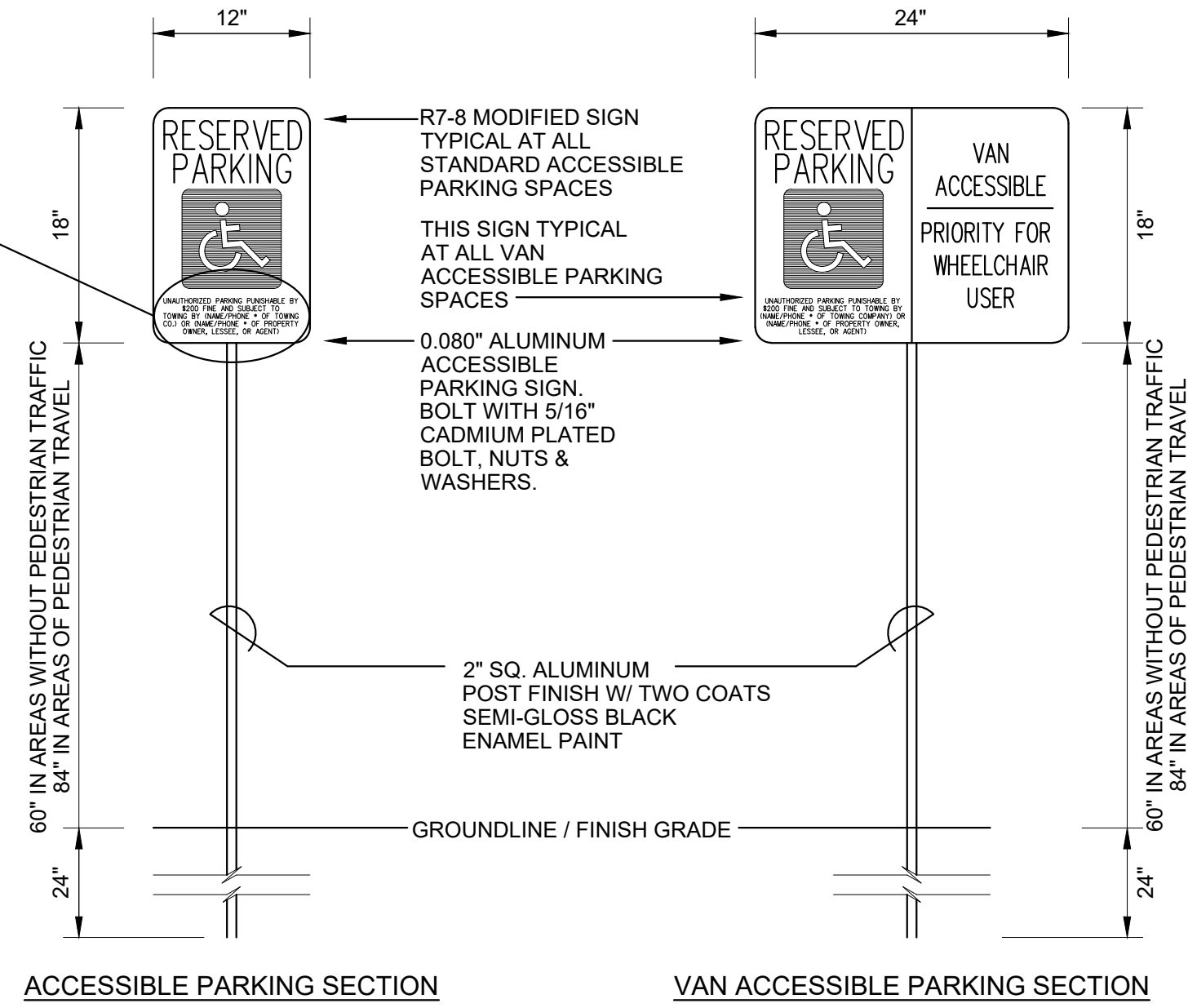
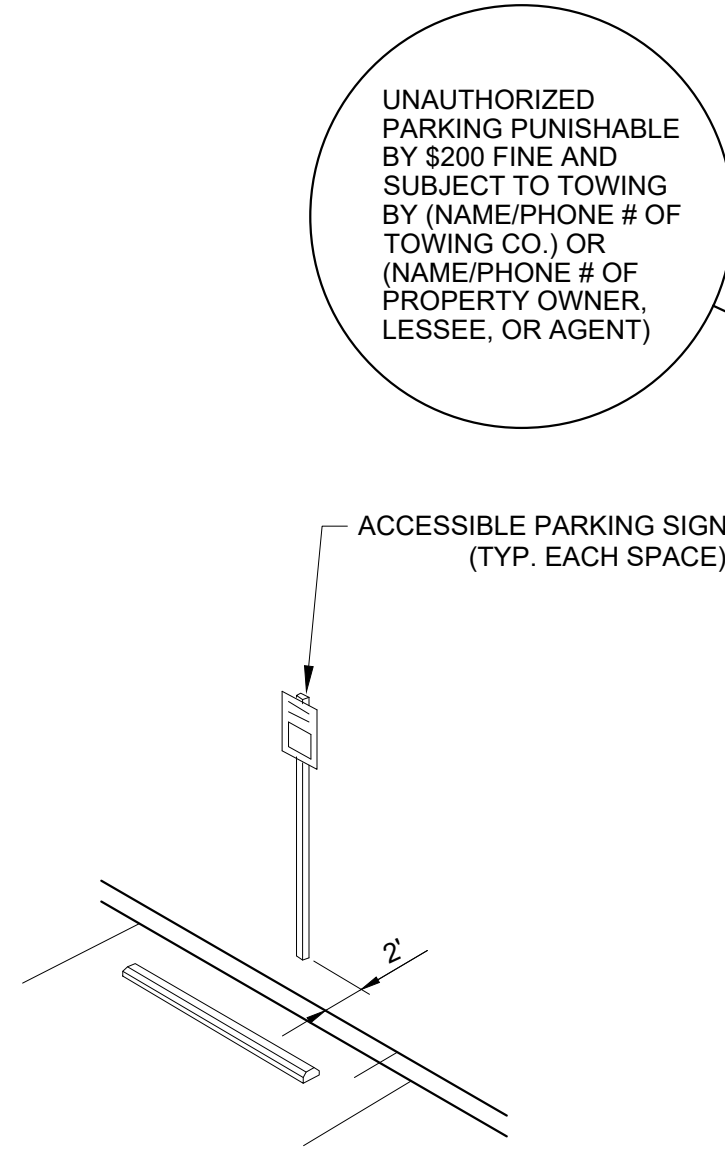
3 DETAIL C7.03

NOTE: 1.75% MAXIMUM SLOPE IN PARKING AREA, ALL DIRECTIONS

- NOTES:
- SEE SITE PLAN FOR COMPLETE LAYOUT
  - THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY
  - ALL DIMENSIONS ARE TO CENTER LINE OF STRIPE UNLESS OTHERWISE NOTED
  - STROKE WIDTH SHALL BE 4"
  - INTERNATIONAL SYMBOL OF ACCESSIBILITY TO BE PAINTED WHITE WITH A BLUE BACKGROUND AND OPTIONAL WHITE BORDER

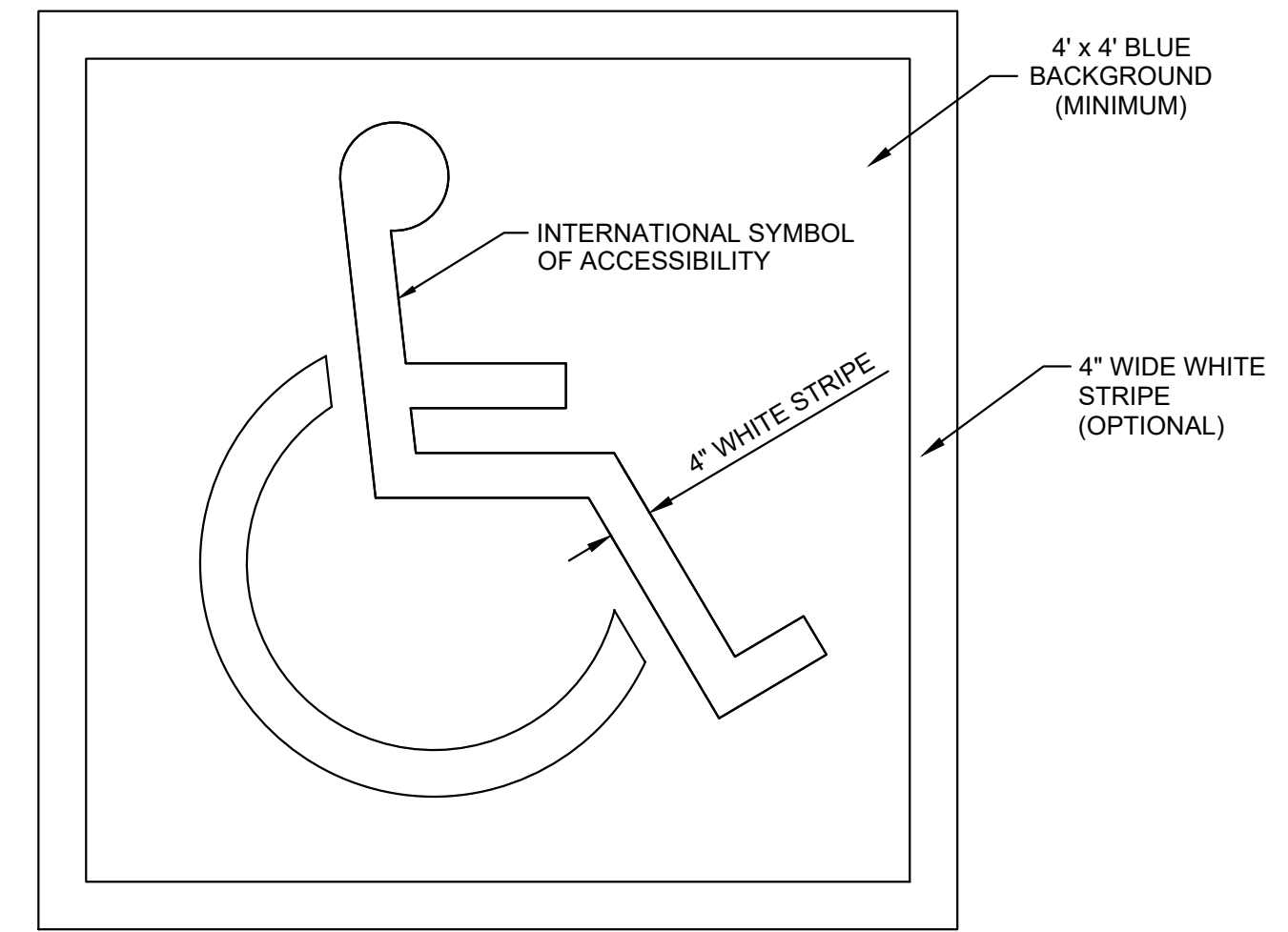


1 ACCESSIBLE PARKING DETAIL C7.03 SCALE: NTS

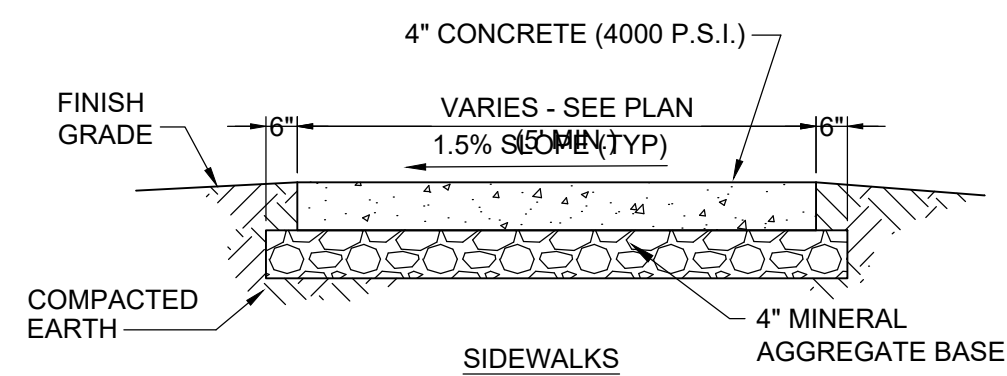


- NOTES:
- REFERENCE: M.U.T.C.D. AND TENNESSEE CODE ANNOTATED § 55-21-108(a)

2 ACCESSIBLE PARKING SIGNS C7.03 SCALE: NTS

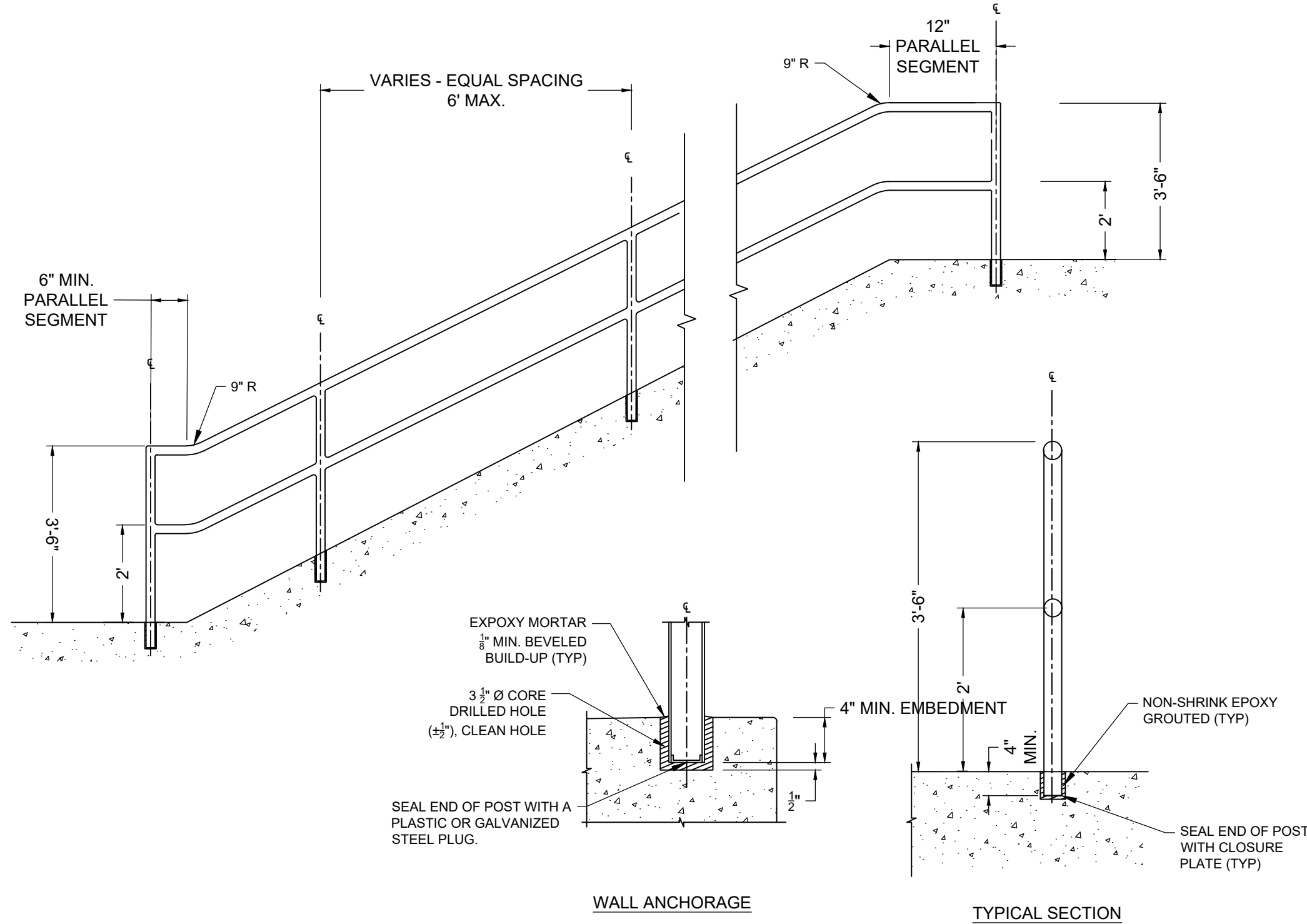


3 ACCESSIBLE PARKING PAVEMENT MARKING C7.03 SCALE: NTS



- NOTES:
- PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 25' CENTERS.
  - 1/4" CONTRACTION JOINTS SHALL BE EQUALLY SPACED AT 5' CENTERS BETWEEN EXPANSION JOINTS.
  - SEE PLANS FOR SPECIFIC AND/OR SPECIAL JOINT LAYOUTS, IF ANY.
  - 1.5% CROSS SLOPE TYPICAL FOR POSITIVE DRAINAGE.
  - 2.0% ABSOLUTE MAXIMUM CROSS SLOPE, STRICTLY ENFORCED.
  - SIDEWALK TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO PRIMARY DIRECTION OF TRAVEL.

4 CONCRETE SIDEWALK C7.03 SCALE: NTS



RAILING MEMBER DIMENSION TABLE	
MEMBER	DESIGNATION
POSTS	1.5" NPS (SCH. 80)
RAILS	1.5" NPS (SCH. 40)
RAIL JOINT/SPLICE SLEEVES	1" NPS (SCH. 40)

NOTE: ALL RAILING MEMBERS TO BE PAINTED BLACK.

5 SAFETY RAILING C7.03 SCALE: NTS



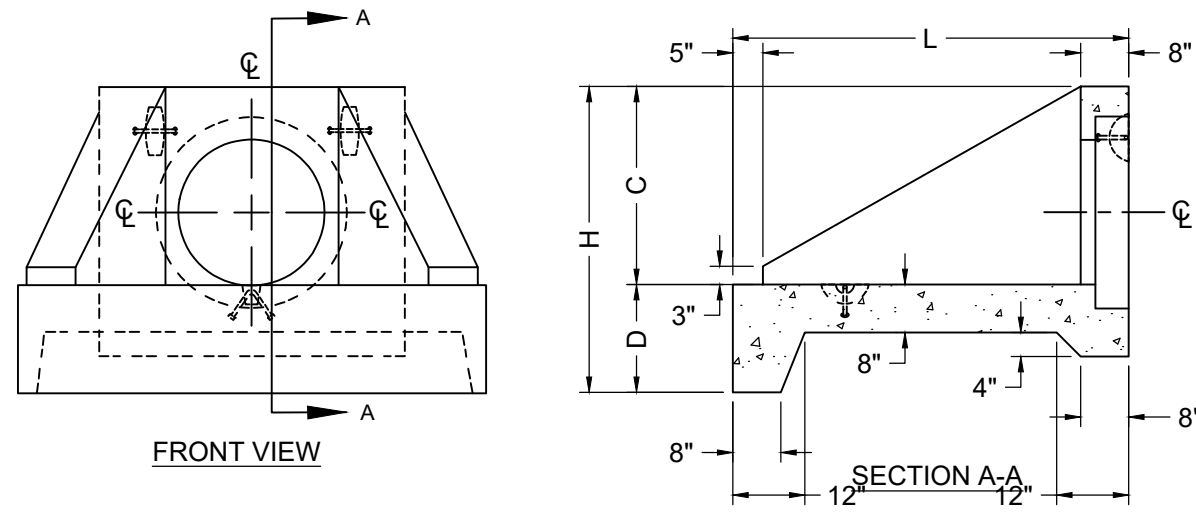
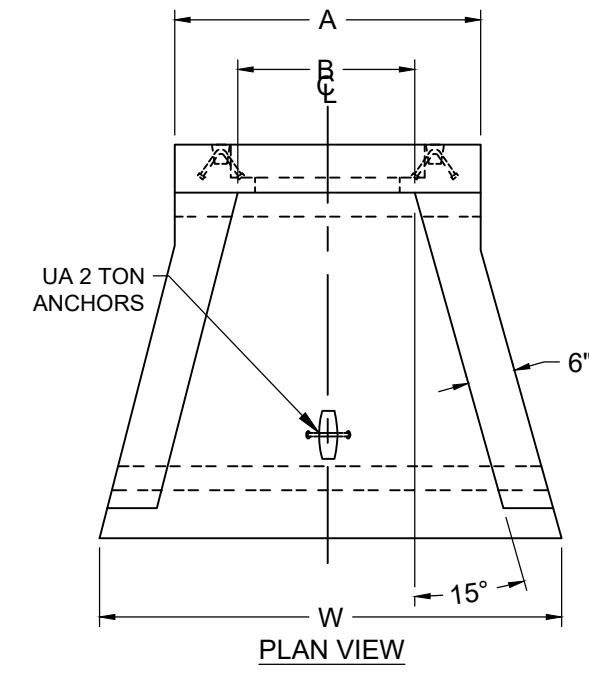
**SITE DETAILS**  
HAMILTON COUNTY SCHOOLS  
OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

**C7.03**

FILE NO. 38505-00

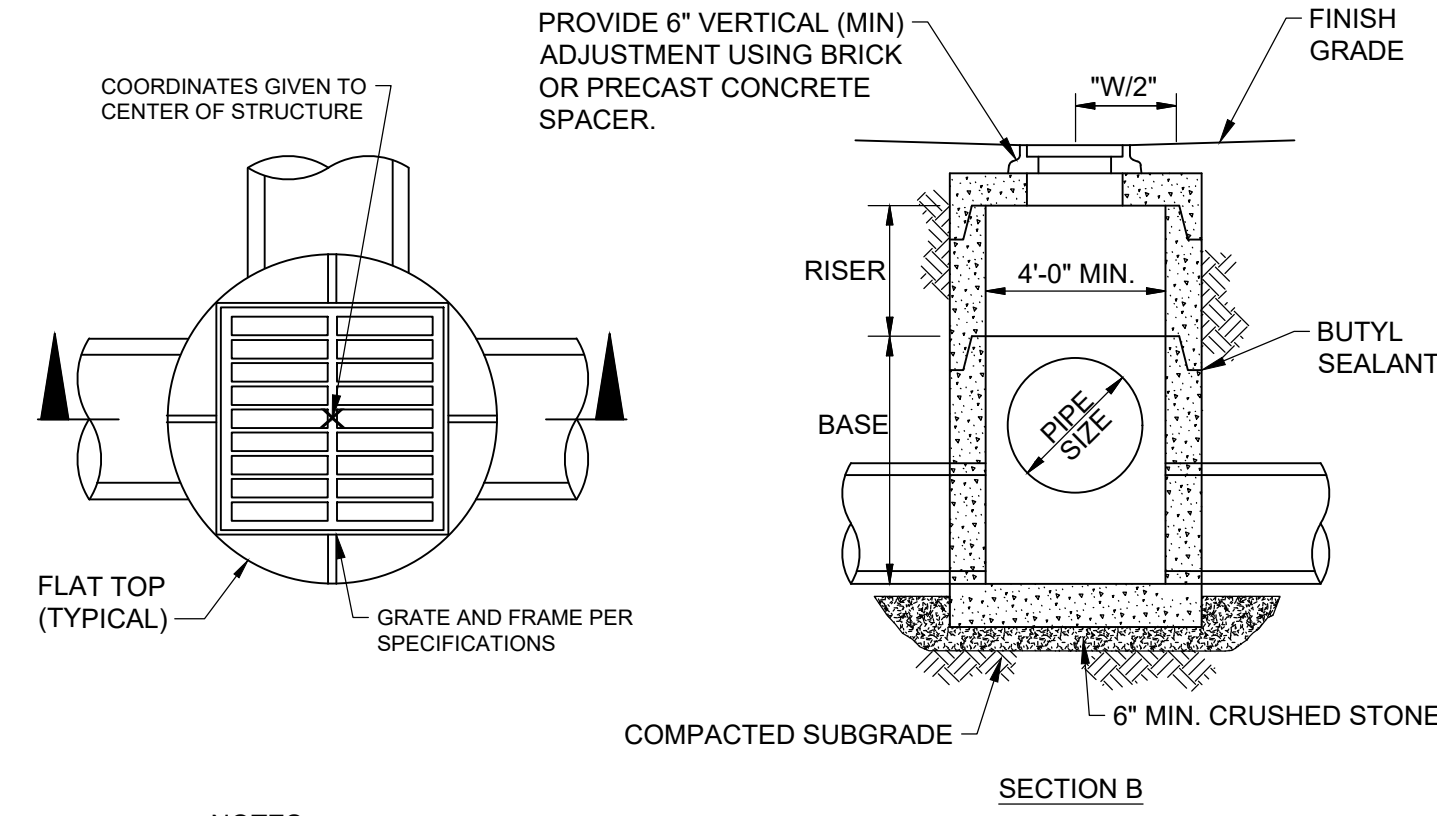
- NOTES:
1. MIN. CONCRETE STRENGTH:  $F_c' = 5,000$  PSI @ 28 DAYS
  2. REINFORCING STEEL: ASTM A615,  $F_y = 60$  KSI
  3. HOLE SIZE SHOWN IN TABLE IS FOR RCP PIPE. FOR OTHER TYPES OF PIPE THE OPENING WILL BE O.D. + 2-4".



STANDARD DIMENSIONS IN INCHES												
PIPE SIZE	HOLE SIZE	"W"	"L"	"H"	"A"	"B"	"C"	"D"	"E"	"F"	"G"	WEIGHT (LBS)
12	20	63	54	43	42	24	27	16	12.0	13.0	3.0	3,605
15	24	63	54	43	42	24	27	16	8.5	9.75	3.50	3,605
18	27	63	54	43	42	24	27	16	5.0	6.5	4.0	3,605
24	34	78	66	51	51	29	33	18	5.0	6.0	4.0	5,468

# 1 HEADWALL

C7.04 SCALE: NTS

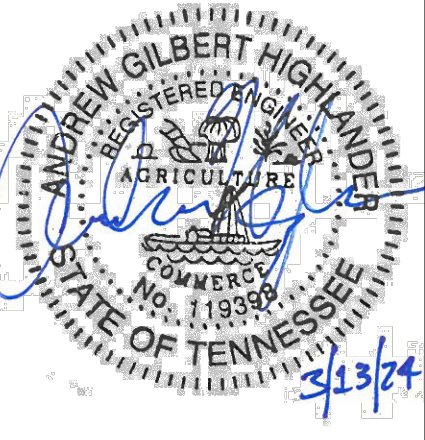


NOTES:

1. MINIMUM CONCRETE STRENGTH - 4000 PSI.
2. SEE STORMWATER MANAGEMENT PLAN FOR PIPE SIZES, LOCATIONS, AND FLOW LINES.
3. PRECAST CATCH BASIN STRUCTURES SHALL BE STANDARD FORTERRA STRUCTURES OR APPROVED SUBSTITUTION.
4. STRUCTURE SIZES VARY. SEE STORMWATER MANAGEMENT PLAN FOR STRUCTURE CALL OUT.
5. PROVIDE LADDER BARS ON STRUCTURES OVER 4.0' DEEP.
6. CASTING SHALL HAVE ENVIRONMENTAL MESSAGE PER LOCAL REGULATIONS.

# 2 CATCH BASIN

C7.04 SCALE: NTS



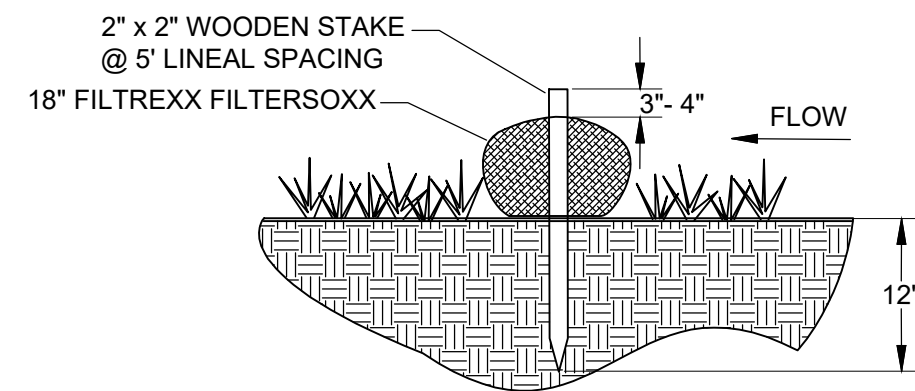
## SITE DETAILS

HAMILTON COUNTY SCHOOLS  
 OOLTEWAH HIGH SCHOOL FOOTBALL/SOCCER  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REVISION INFORMATION		DATE	DESCRIPTION
REV.	CHK.	DATE	DESCRIPTION
0	AGH	03/13/2024	ISSUED FOR BID

# C7.04

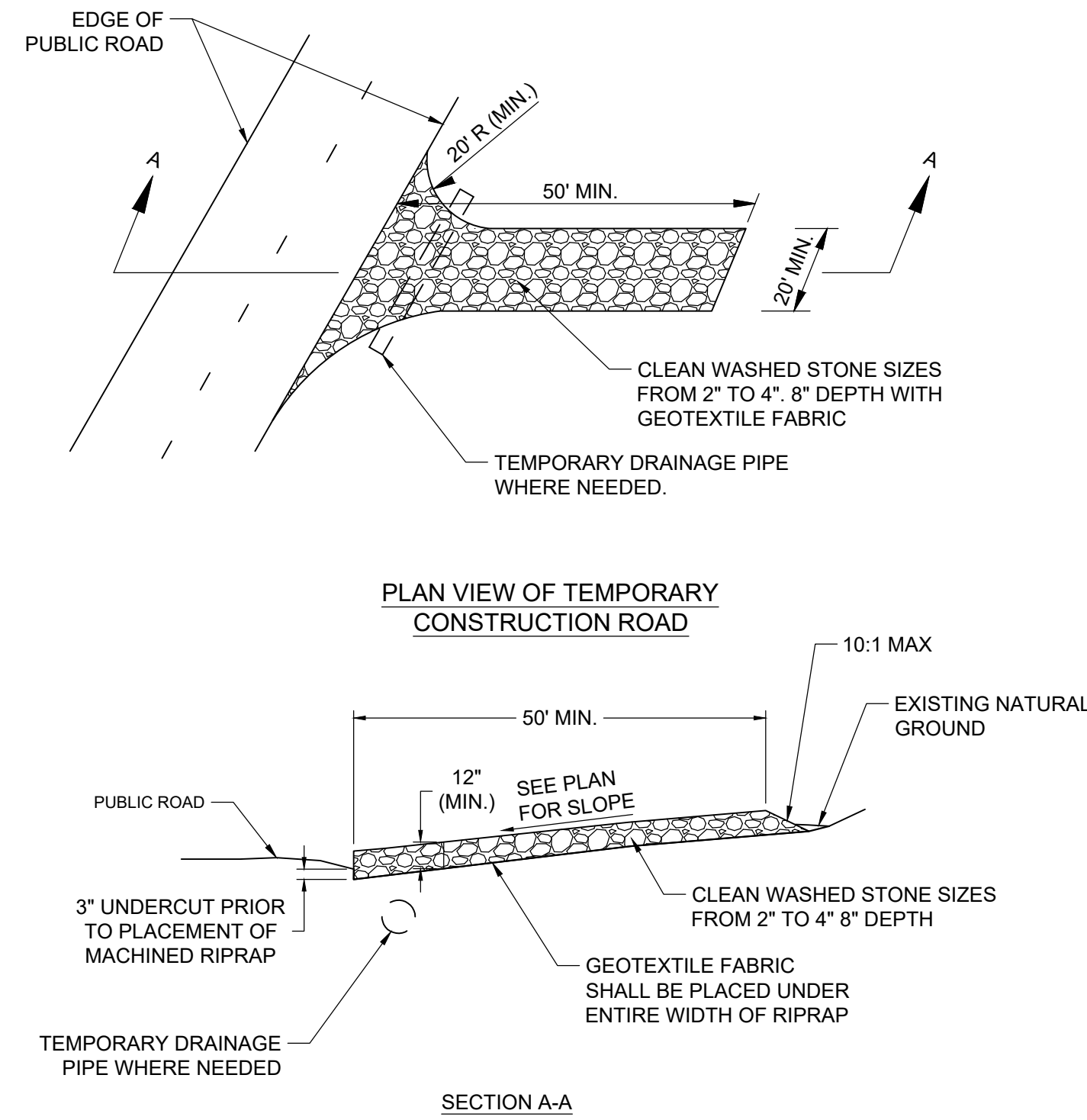
FILE NO. 38505-00



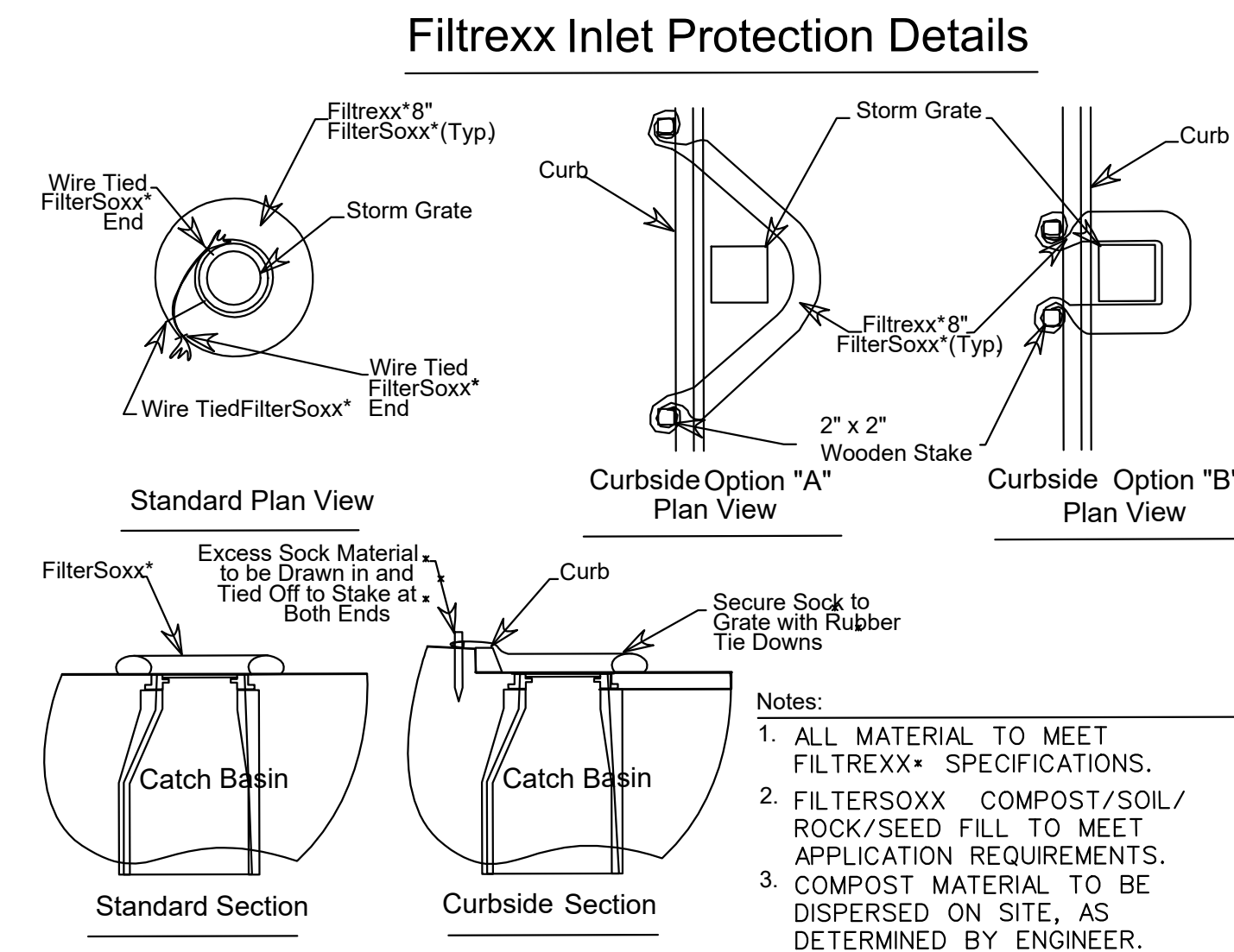
- FILTREXX FILTERSOXX SECTION**
- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR APPROVED EQUIVALENT.
  2. FILTERSOXX COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER AND OWNER.
  4. USE SAND BAGS OR CONCRETE BLOCKS TO KEEP SILTSOXX IN PLACE OVER PAVEMENT AND HARDSCAPE AREAS.

**1 SILT SOCK**  
C7.31 SCALE: NTS

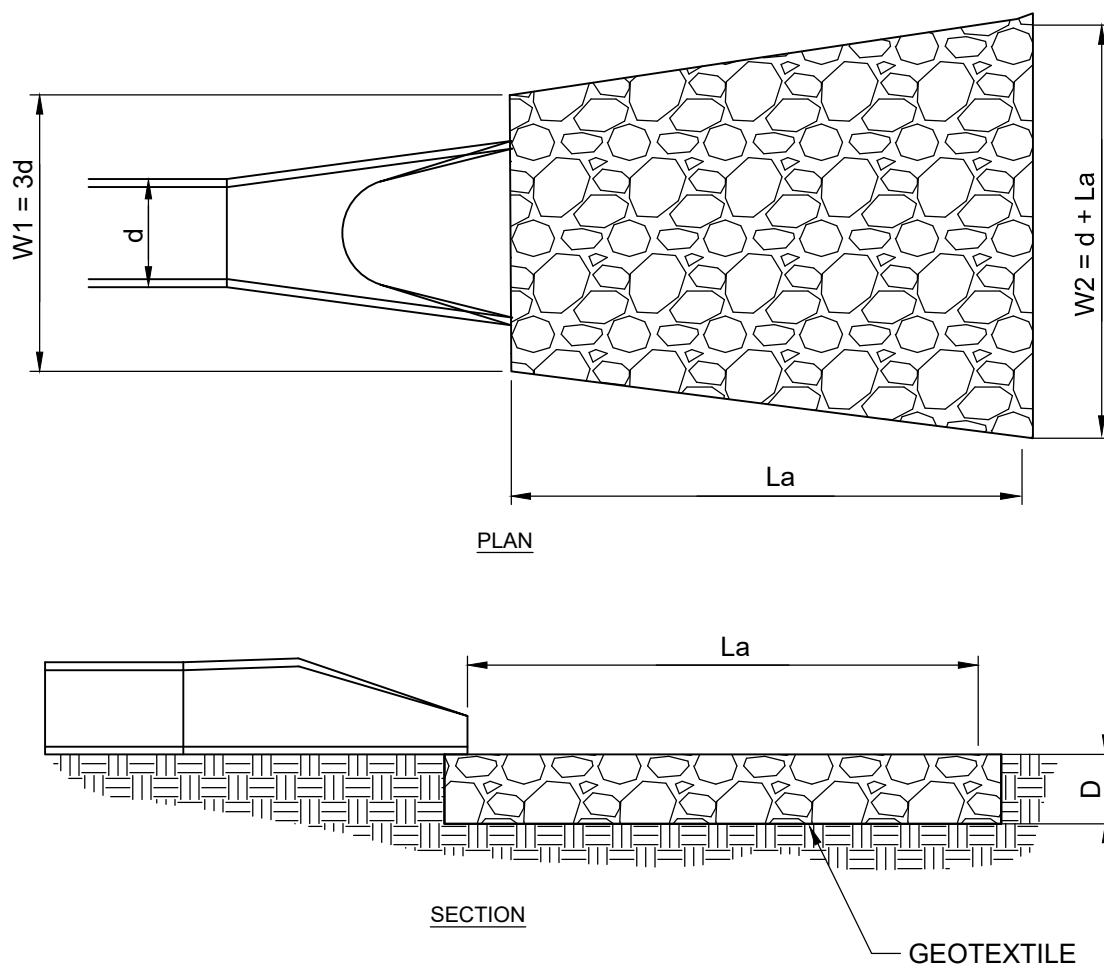
- NOTES:
1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 2 TO 4 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
  2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
  3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
  4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 20 FEET, WHICH EVER IS GREATER.
  5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FABRIC SHALL BE 12 OZ./S.Y. NON-WOVEN.
  6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
  7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
  8. IF APPLICABLE, DIVERSION DITCH AND SEDIMENT TRAP SHALL BE LOCATED AS SHOWN IN PLANS. REPRESENTATION IN THE ABOVE DETAIL IS FOR GENERAL REFERENCE.



**2 CONSTRUCTION EXIT**  
C7.31 SCALE: NTS



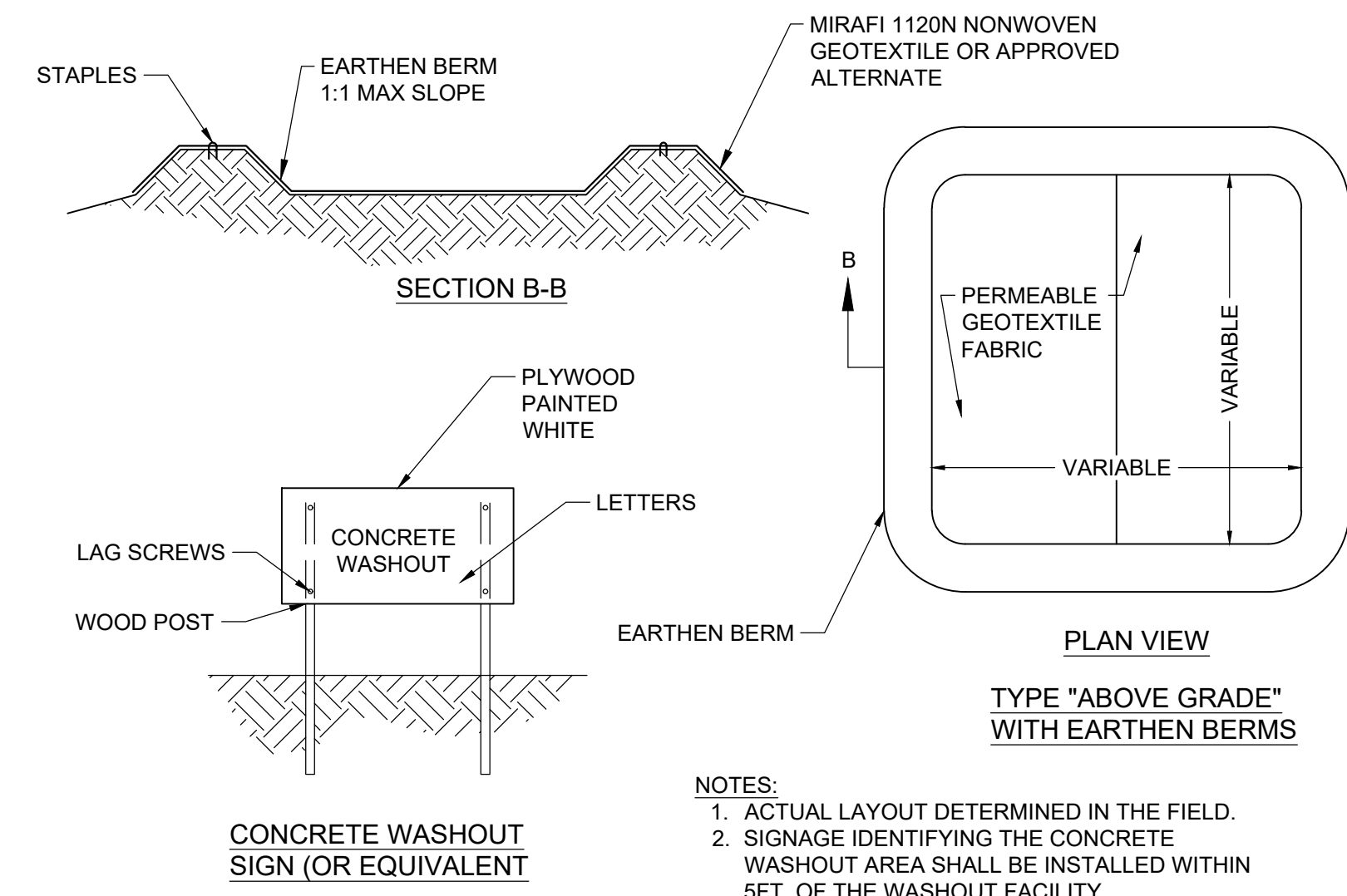
**4 INLET PROTECTION**  
C7.31 SCALE: NTS



- NOTES
1. La IS THE LENGTH OF THE RIP-RAP APRON.
  2. MIRAFI 1120N NONWOVEN GEOTEXTILE OR APPROVED ALTERNATE TO BE INSTALLED UNDER RIP-RAP
  3. MAXIMUM STONE SIZE=1.5d

OUTLET	d (in)	V <sub>25</sub> (ft/s)	La(ft)	W1(ft)	W2(ft)	D <sub>50</sub> (in)	D(in)	TDOT CLASS
<18	<18	<18	8	3.75	9.25	4	9	A-3
18	18	18	9	4.5	10.5	4	9	A-3
24	24	24	20	6	22	9	20.25	A-1
36	36	36	32	32	35	15	33.75	B

**5 OUTLET PROTECTION**  
C7.31 SCALE: NTS



- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
  2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT. OF THE WASHOUT FACILITY.

**3 CONCRETE WASHOUT**  
C7.31 SCALE: NTS

**SEEDING SCHEDULE & NOTES:**

PERMANENT SEED MIXTURE					
GROUP	SEEDING DATES	GRASS SEED	PERCENTAGES	RATE/SF	RATE/AC
A	FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	85%	2.5LBS/ 1,000SF	110LBS/ ACRE
		WHITE CLOVER	10%		
		ENGLISH RYE	5%		
B	JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	60%	2.5LBS/ 1,000SF	110LBS/ ACRE
		ENGLISH RYE	2%		
		WHITE CLOVER	10%		
		GERMAN MILLET	10%		
C	AUGUST 1 TO DECEMBER 1	KENTUCKY 31 FESCUE	70%	2.5LBS/ 1,000SF	110LBS/ ACRE
		ENGLISH RYE	20%		
TEMPORARY SEED MIXTURE					
	AUGUST 15 TO OCTOBER 31	ANNUAL RYE GRASS	100%	0.9LBS/ 1,000SF	40LBS/ ACRE
	APRIL 15 TO JUNE 15	BROWN TOP MILLET	100%	0.9LBS/ 1,000SF	40LBS/ ACRE
	SEPTEMBER 15 TO NOVEMBER 30	WINTER WHEAT	100%	4.1LBS/ 1,000SF	3BU/ ACRE

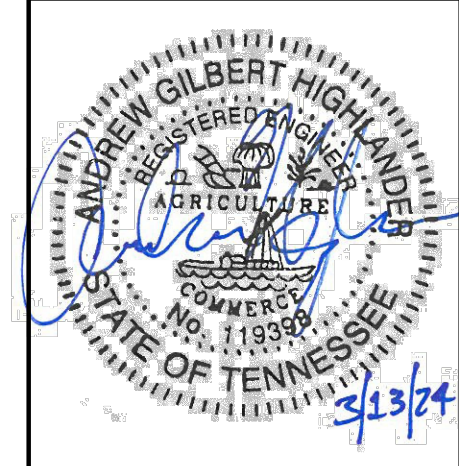
- A. SEEDING SHALL BE IN ACCORDANCE WITH SECTION 801 OF TDOT SPECIFICATIONS. GROUPING REFERS TO TDOT SEED GROUP.
- B. MAY TO SEPTEMBER 20 LB/AC OF STARR MILLET SHALL BE ADDED WITH SPECIFIED SEED GROUPING LISTED ABOVE.
- C. OCTOBER TO APRIL 32 LB/AC OF OATS SHALL BE ADDED WITH SPECIFIED SEED GROUPS LISTED ABOVE.

**6 SEEDING SCHEDULE**  
C7.31 SCALE: NTS

**CONSTRUCTION SEQUENCE**

DESCRIPTION	APR. 2024	MAY 2024	JUN. 2024	JUL. 2024	AUG. 2024
INSTALL INITIAL PERIMETER EROSION CONTROL MEASURES & RELATED DEVICES	[Bar]				
SUBGRADE EARTHWORK	[Bar]				
INSTALL ARTIFICIAL TURF	[Bar]				
MAINTAIN & MODIFY EROSION CONTROL MEASURES & RELATED DEVICES UNTIL STABILIZATION	[Bar]				
FINAL SITE STABILIZATION	[Bar]				

**7 CONSTRUCTION SCHEDULE**  
C7.31 SCALE: NTS



REV.	DR.	CHK.	DATE	DESCRIPTION
0		AGH	03/13/2024	ISSUED FOR BID

# HAMILTON COUNTY SCHOOLS SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION

HAMILTON COUNTY, TN



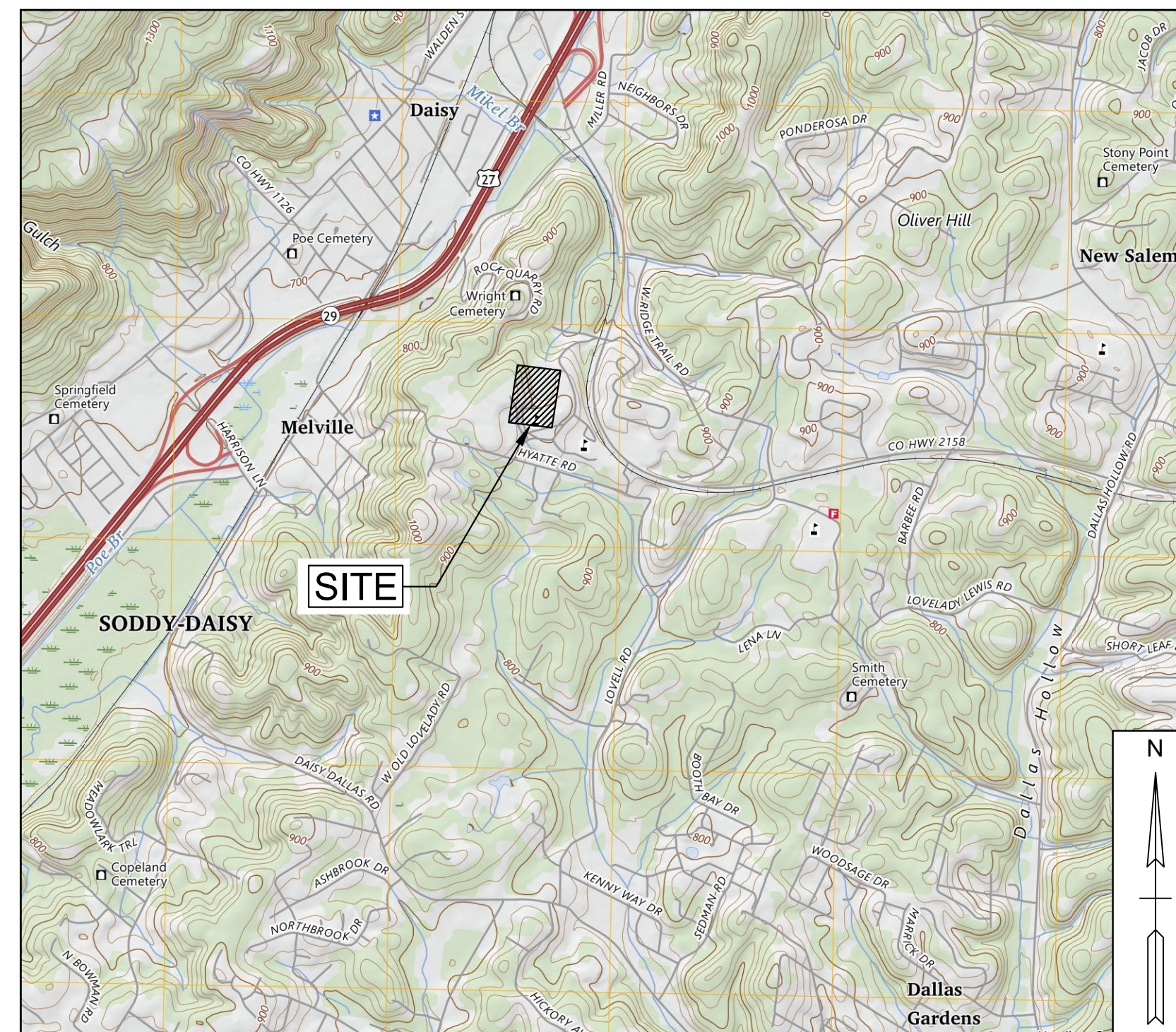
## CONTACTS

**OWNER**  
HAMILTON COUNTY SCHOOLS  
3074 HICKORY VALLEY ROAD  
CHATTANOOGA, TN 37421  
CONTACT: JUSTIN WITT

**DESIGN PROFESSIONAL**  
BARGE DESIGN SOLUTIONS  
1110 MARKET STREET / SUITE 200  
CHATTANOOGA, TN 37042  
423.756.3025  
CONTACT: ANDY HIGHLANDER, PE

## INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C0.00	COVER SHEET
C0.01	GENERAL NOTES
C0.21	EXISTING CONDITIONS
C2.01	FINISHED GRADING & LAYOUT PLAN
C2.11	SUBGRADE PLAN
C2.21	DRAINAGE PLAN
C2.31	EPSC PLAN
C7.01	SITE DETAILS
C7.31	EPSC DETAILS



## VICINITY MAP

NOT TO SCALE

### PROPERTY DATA

ADDRESS 620 SEQUOYAH RD.  
PARCEL ID 066-049.02  
ZONING R-3  
OVERLAY NONE

### FEMA NOTE

THIS PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY NO. 47065C, PANEL NO. 0231G, DATED 2/3/2016, ZONE "X."



HAMILTON COUNTY SCHOOLS  
SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN



1110 Market Street // Suite 200 // Chattanooga, Tennessee 37402  
Phone (423) 756-3025 // Fax (423) 756-8477

**G0.00**  
PROJECT No.  
38505-00



GENERAL NOTES

- 1. THE FOLLOWING NOTES ARE APPLICABLE TO ALL CIVIL DOCUMENTS.
2. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS AND BOND, IF REQUIRED, PRIOR TO BEGINNING WORK.
...
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE AND APPROPRIATE SLOPE TO DRAIN ALL WALKS AND SWALES, REGARDLESS OF WHETHER THE PLANS GRAPHICALLY PORTRAY OR INDICATE SLOPE.

GRADING NOTES

- 1. ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE AND ANY PROPOSED PROFILES AND/OR CROSS-SECTIONS REPRESENT THE SAME FINISHED SURFACE.
2. ALL PROPOSED GRADING SHALL BE CONSIDERED UNCLASSIFIED. IT IS UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR OTHER MATERIALS ON THE DRAWINGS IS NOT AN INDICATION OF CLASSIFIED EXCAVATION.
...
26. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE SHOWN ON THE PLAN UNLESS OTHERWISE NOTED.

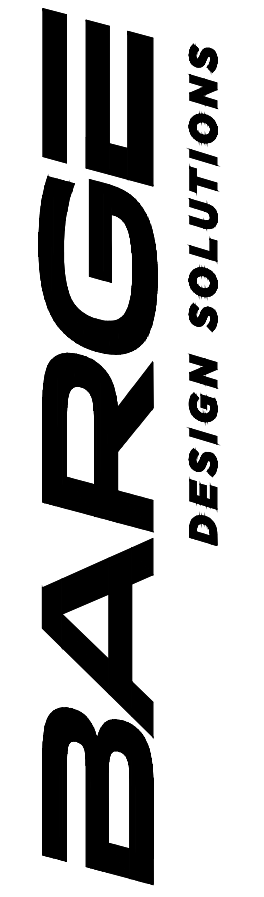
EROSION CONTROL NOTES

- 1. NO VEGETATION IS TO BE DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
2. TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED, AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".
...
18. ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO ACCEPTANCE.

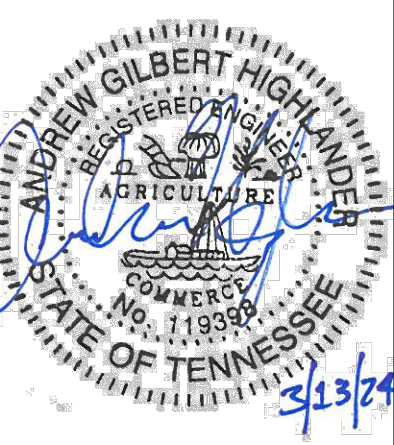
UTILITY NOTES

- 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID.
...
27. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ANY APPLICABLE FEES.

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SAVED:3/4/2024
PLOTTED:3/12/2024



1110 Market Street | Suite 200 | Chattanooga, Tennessee 37402
PHONE: (423) 758-5525 | FAX: (423) 758-6477

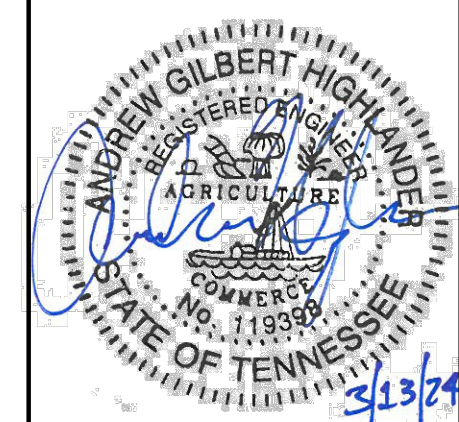


GENERAL NOTES

HAMILTON COUNTY SCHOOLS
SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER
FIELD RENOVATION
HAMILTON COUNTY, TN

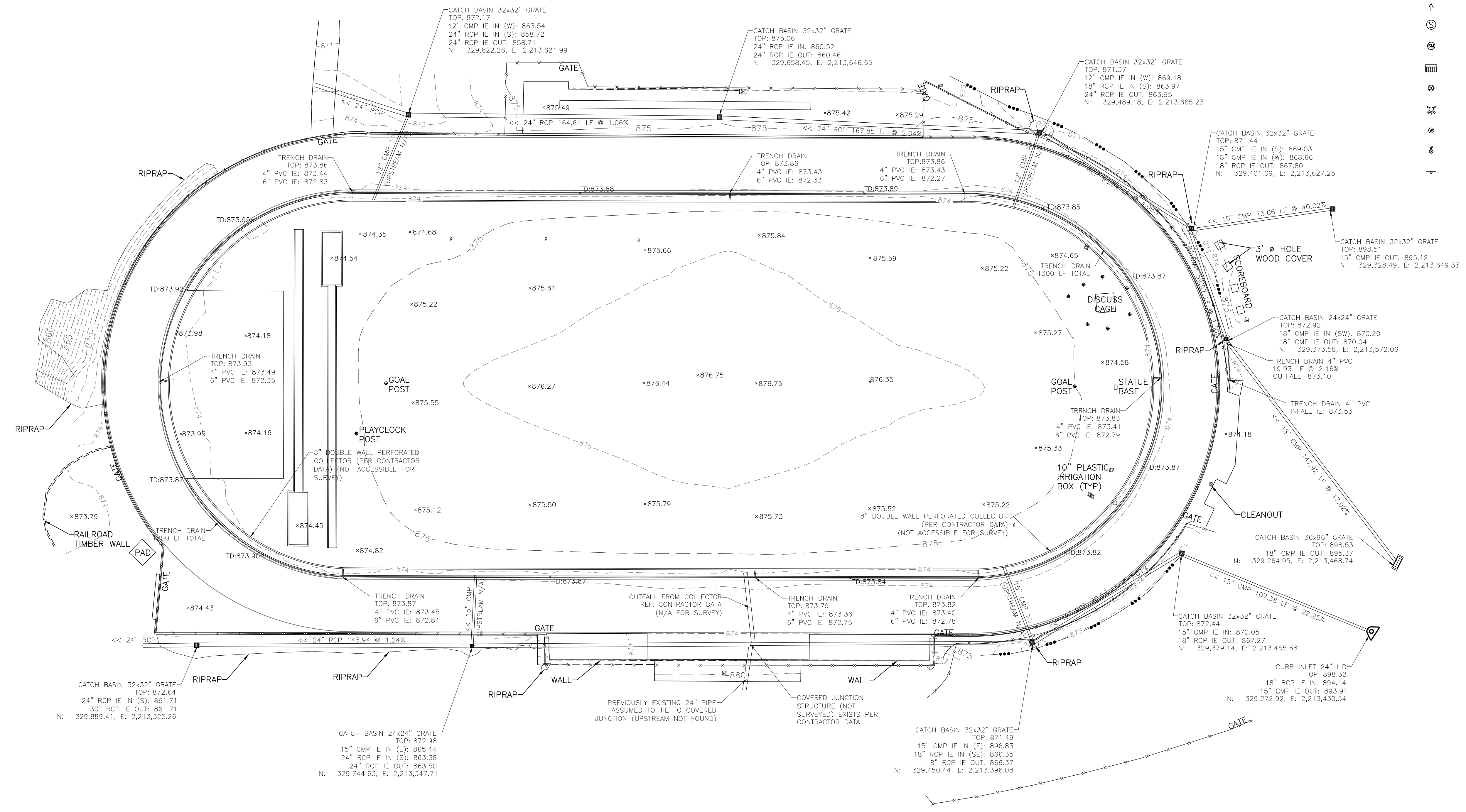
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FILE NO. 38505-00

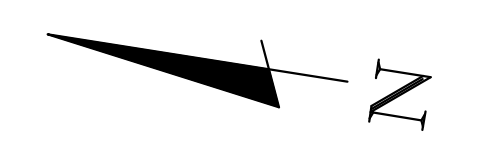


### SURVEY LEGEND

- 520--- CONTOUR LINE (MAJOR)
- 519--- CONTOUR LINE (MINOR)
- OH— OVERHEAD POWER LINE
- SA— SANITARY SEWER LINE
- ==== STORM SEWER LINE
- G— NATURAL GAS LINE
- W— WATER LINE
- Ø UTILITY POLE
- ↑ GUY WIRE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM SEWER MANHOLE
- ▭ CATCH BASIN
- ⊙ SANITARY CLEANOUT
- ⊙ FIRE HYDRANT
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ SIGN POST

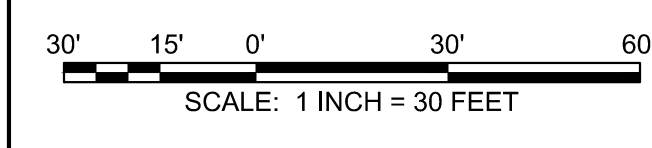


**EXISTING CONDITIONS**  
 HAMILTON COUNTY SCHOOLS  
**SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION**  
 HAMILTON COUNTY, TN



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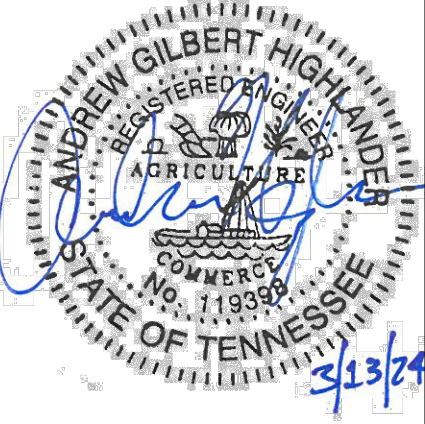
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REV.	CHK.	DATE	DESCRIPTION
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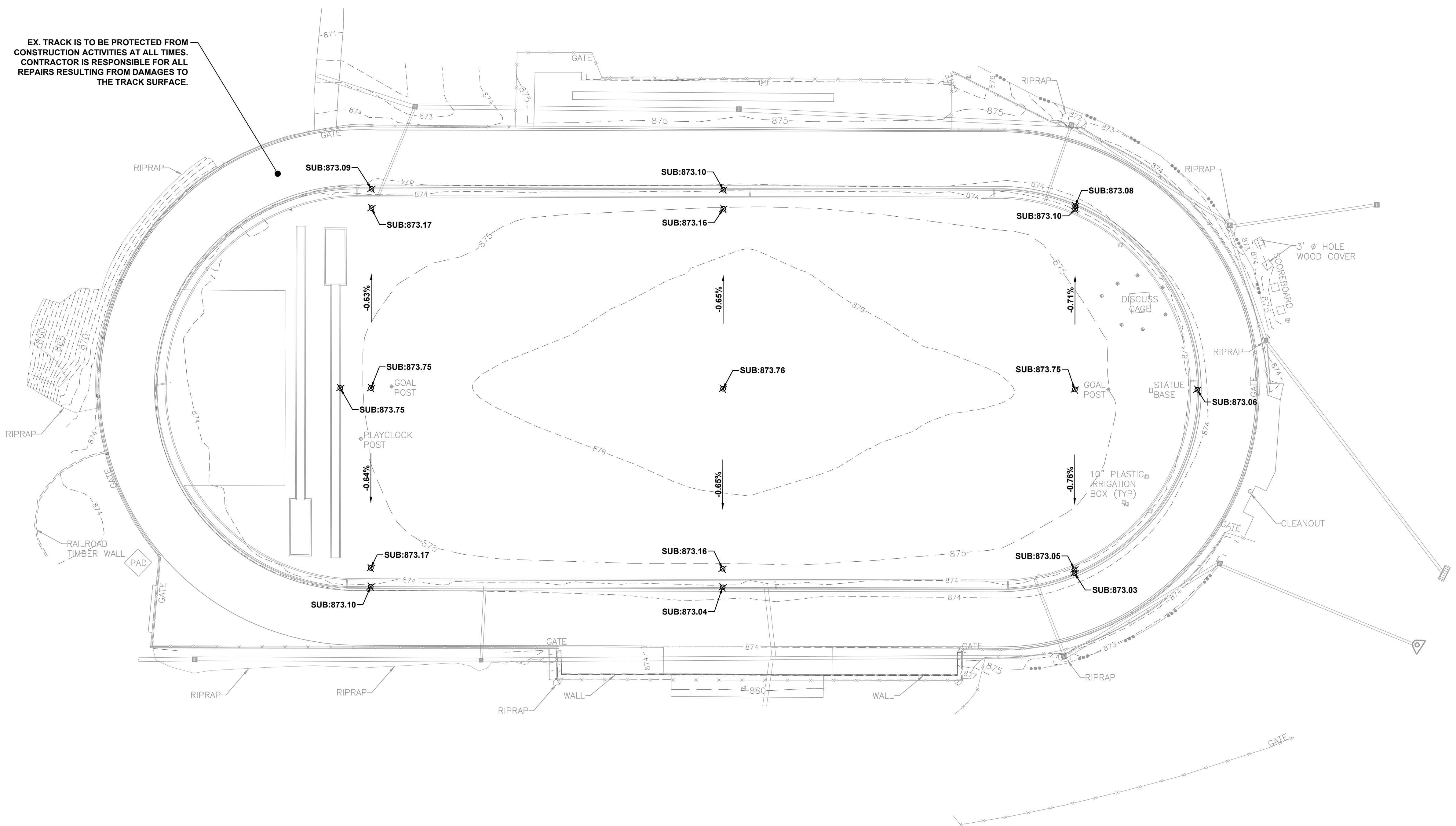
**C0.21**  
 FILE NO. 38505-00





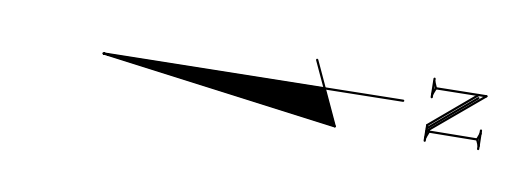
### GRADING AND DRAINAGE NOTES

- SEE SHEET C0.01 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT FINISHED GRADE TO BE FLUSH WITH EXISTING STORM STRUCTURE CASTINGS. CONTRACTOR TO ENSURE SLOPES DRAIN TO EX. STORM STRUCTURES.



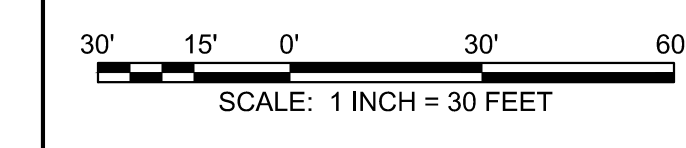
**SUBGRADE PLAN**  
 HAMILTON COUNTY SCHOOLS  
**SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER**  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

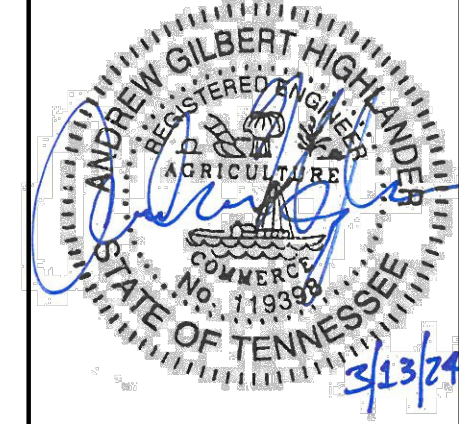


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DATUM: TNSPC (NAD83) NAVD 1988  
 FEMA PANEL: ZONE "X", PANEL NO. 47065C0231G, 2/3/16

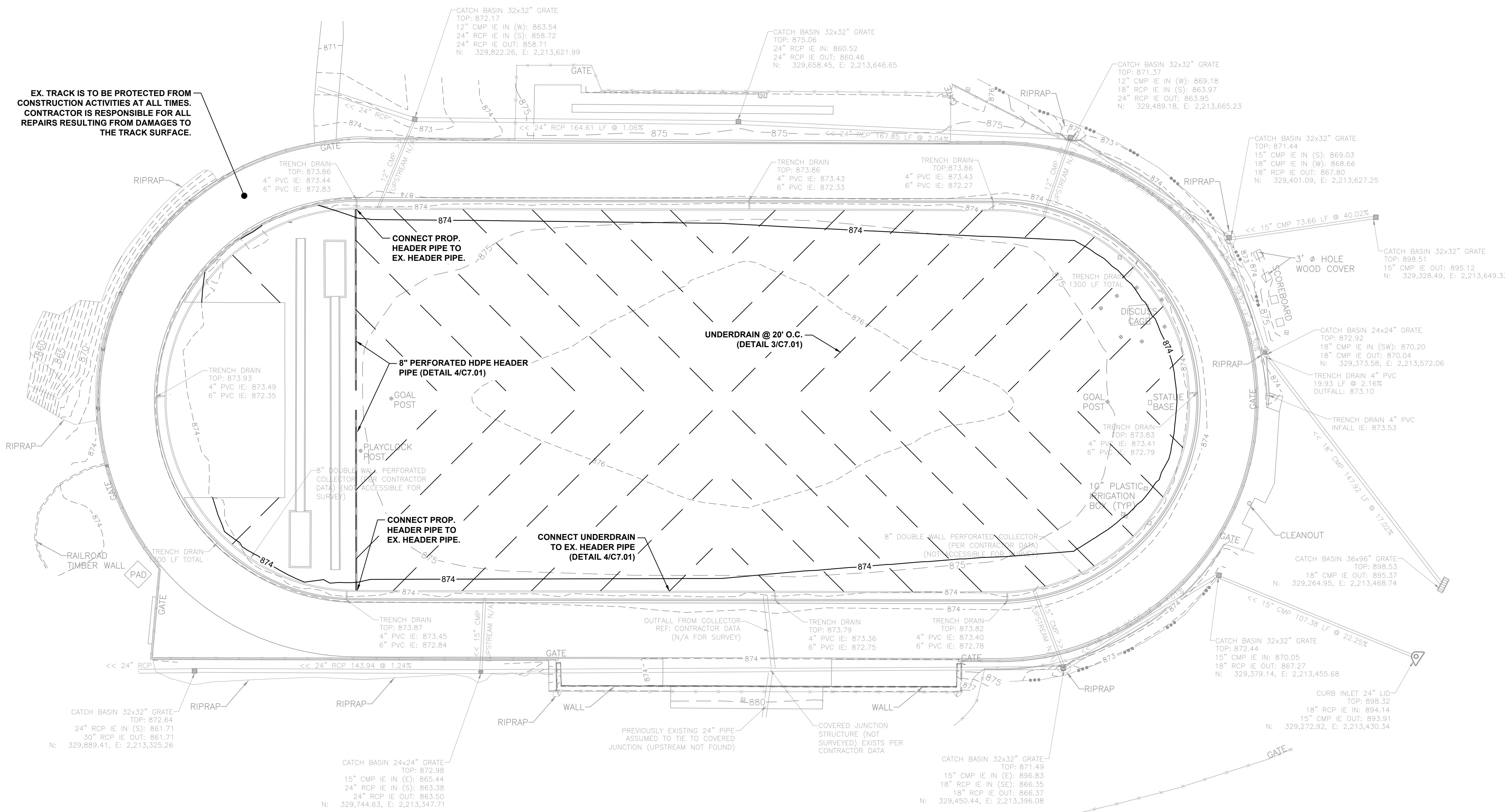


**C2.11**  
 FILE NO. 38505-00



### GRADING AND DRAINAGE NOTES

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- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT FINISHED GRADE TO BE FLUSH WITH EXISTING STORM STRUCTURE CASTINGS. CONTRACTOR TO ENSURE SLOPES DRAIN TO EX. STORM STRUCTURES.



EX. TRACK IS TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS RESULTING FROM DAMAGES TO THE TRACK SURFACE.

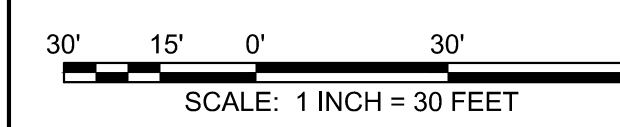
## DRAINAGE PLAN

HAMILTON COUNTY SCHOOLS  
**SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION**  
 HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	ECM	08/13/2024	ISSUED FOR BID

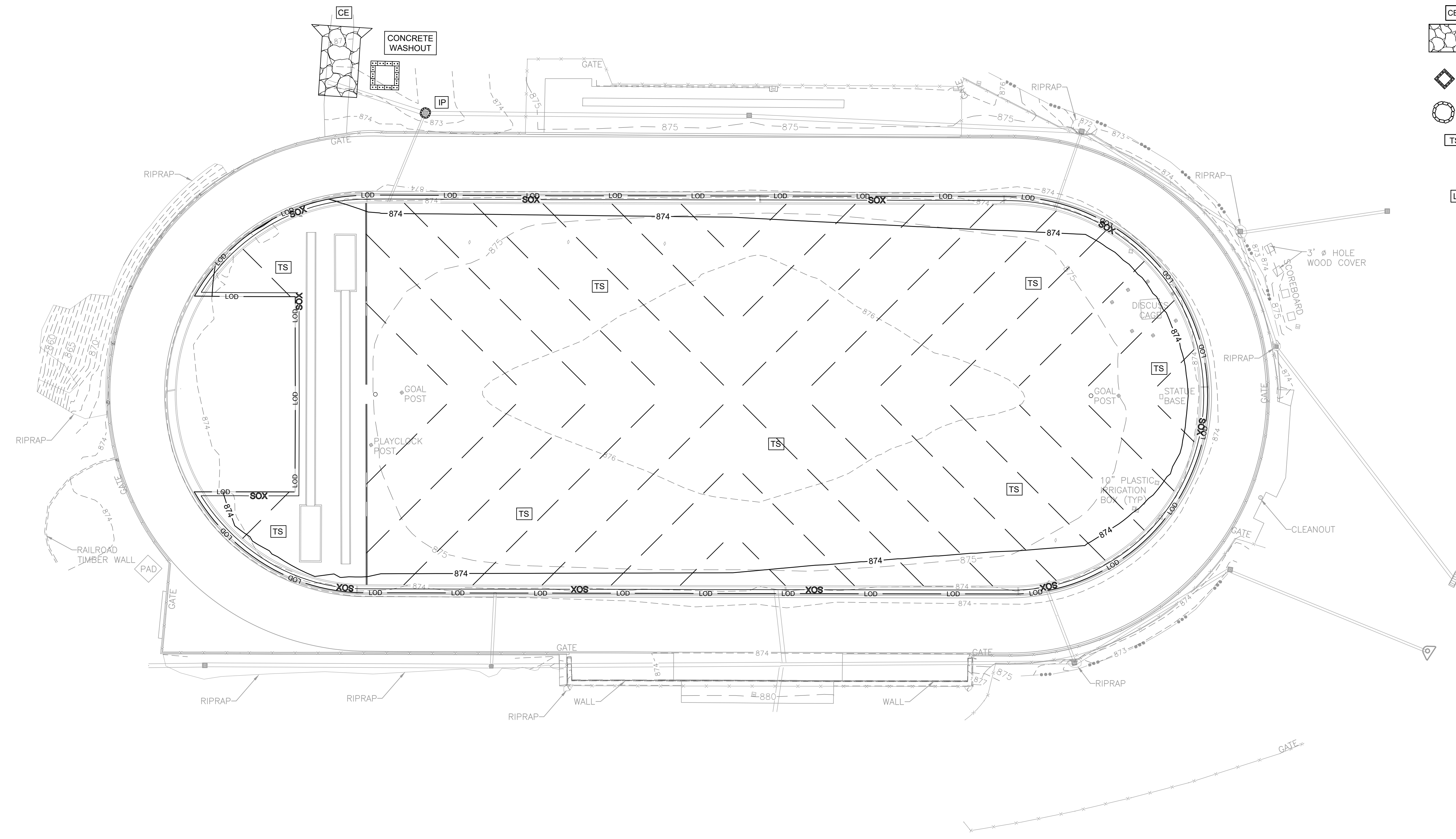
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 www.call811.com

DATUM: TNNSPC (NAD83) NAVD 1988  
 FEMA PANEL: ZONE "X", PANEL NO. 47065C0231G, 2/3/16



**C2.21**  
 FILE NO. 38505-00

USER: AGHIGHLANDER  
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 SA: VED, 2/25/2024  
 PLOTTED: 3/12/2024



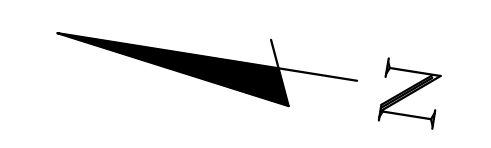
**GENERAL NOTES**

- SEE SHEET C0.01 FOR EROSION AND SEDIMENT CONTROL NOTES.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE LATEST EDITION OF THE TN EROSION & SEDIMENT CONTROL MANUAL, HAMILTON COUNTY BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT.

**LEGEND**

- LOD — LIMITS OF DISTURBANCE
- SOX — SILT SOXX (DETAIL 1/C7.31)
- CONSTRUCTION EXIT (DETAIL 2/C7.31)
- CONCRETE WASHOUT (DETAIL 3/C7.31)
- INLET PROTECTION (DETAIL 4/C7.31)
- TEMPORARY SEEDING ALL DISTURBED AREAS (DETAIL 5/C7.31)

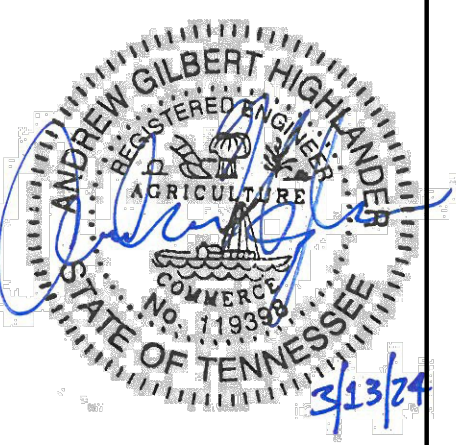
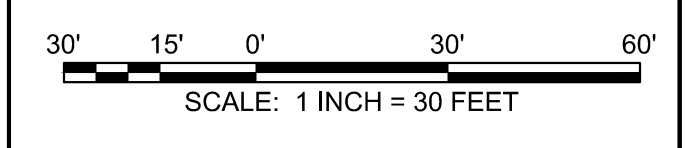
LIMITS OF DISTURBANCE = 2.14 AC



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DATUM: TNSPC (NAD83)  
 NAVD 1988

FEMA PANEL: ZONE "X", PANEL NO. 47065C0231G, 2/3/16.

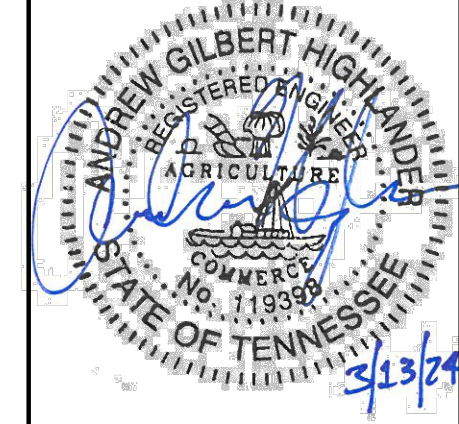


**EPSC PLAN**

HAMILTON COUNTY SCHOOLS  
**SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER**  
 FIELD RENOVATION  
 HAMILTON COUNTY, TN

REV.	CHK.	DATE	DESCRIPTION
0	ECM	03/13/2024	ISSUED FOR BID

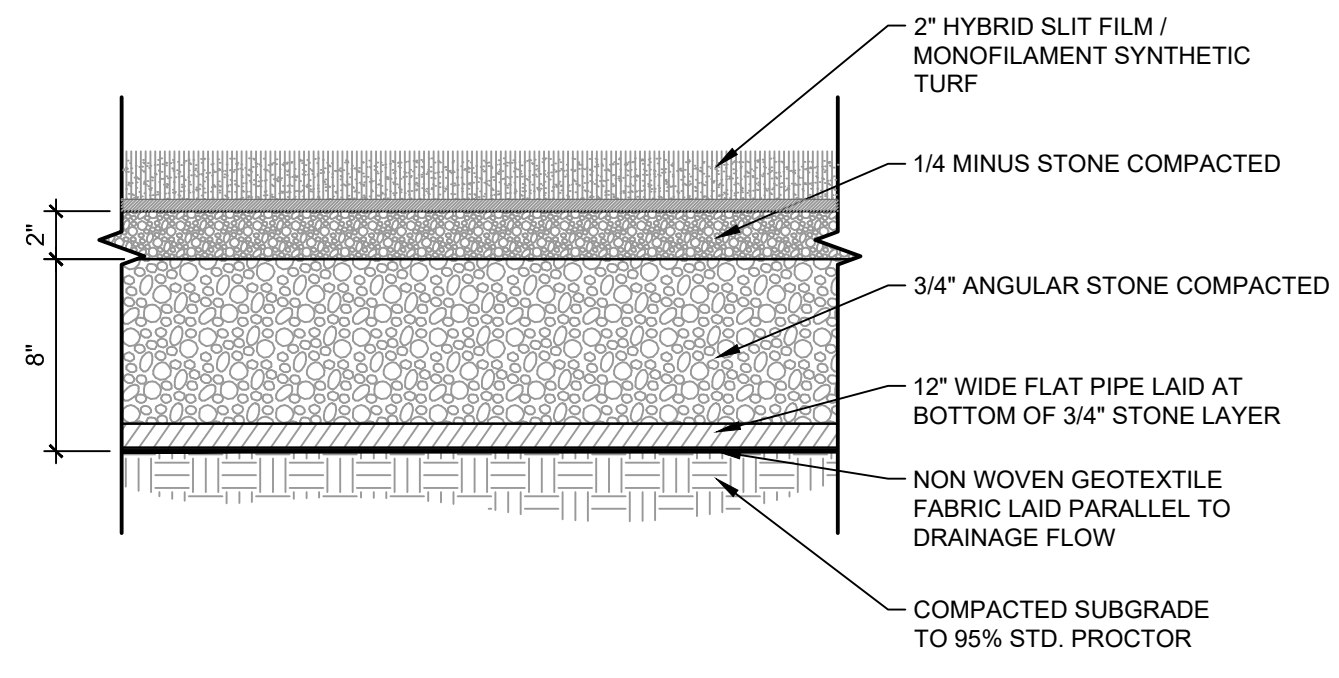
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 FILE NO. 38505-00



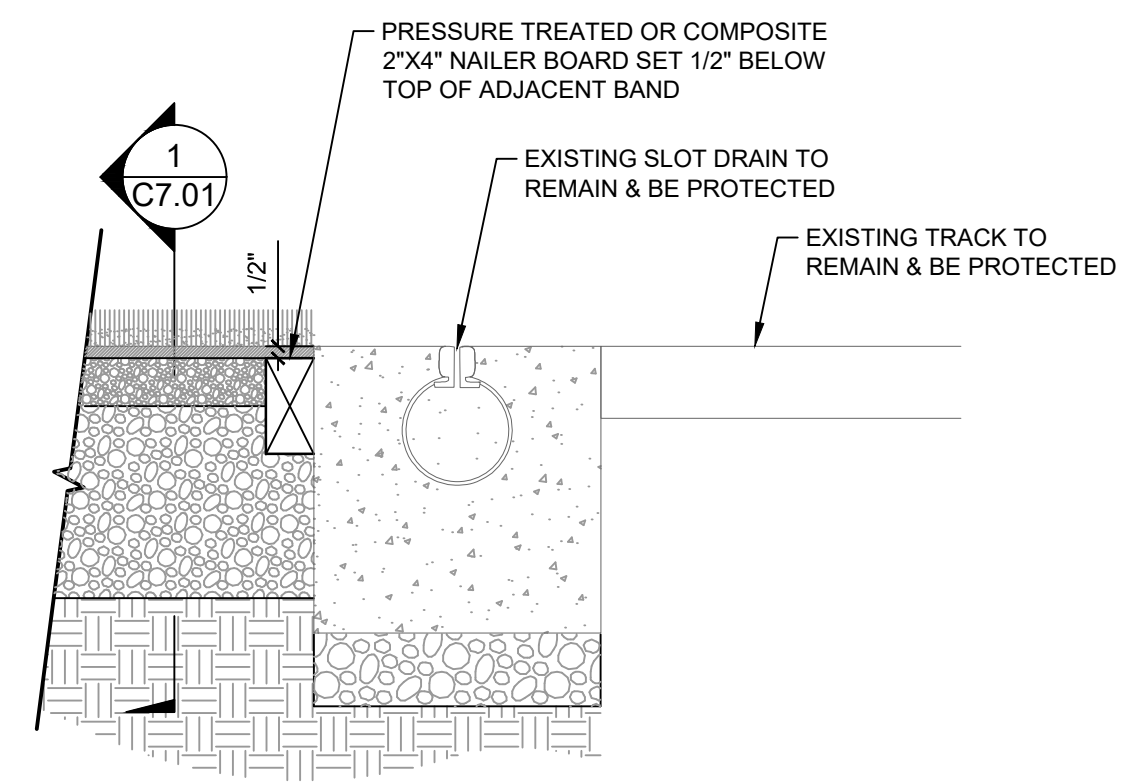
**SITE DETAILS**  
 HAMILTON COUNTY SCHOOLS  
**SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER FIELD RENOVATION**  
 HAMILTON COUNTY, TN

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
0	ECM	AGH	03/13/2024
			ISSUED FOR BID

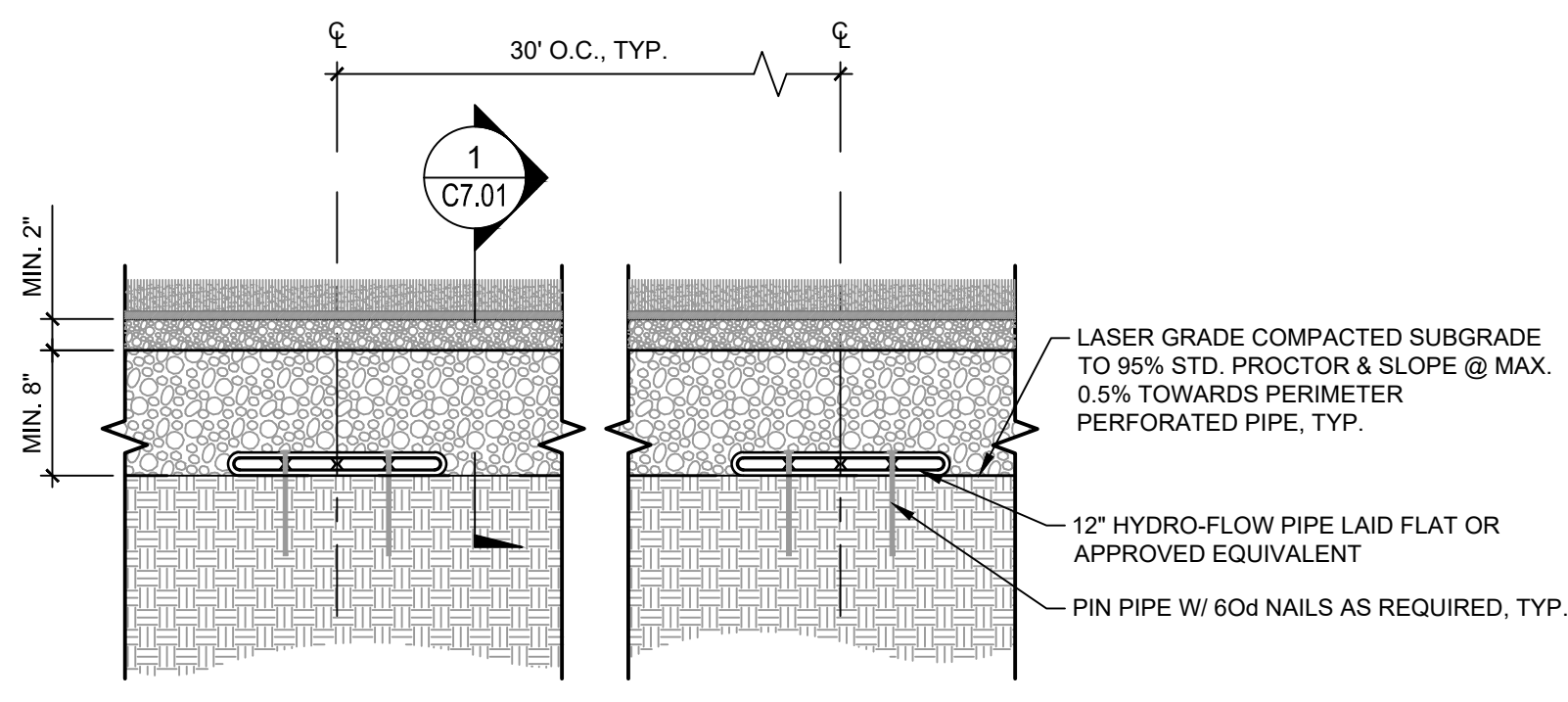
**C7.01**  
 FILE NO. 38505-00



**1 SYNTHETIC TURF - CROSS SECTION**  
 C7.01 1 1/2" = 1'-0"



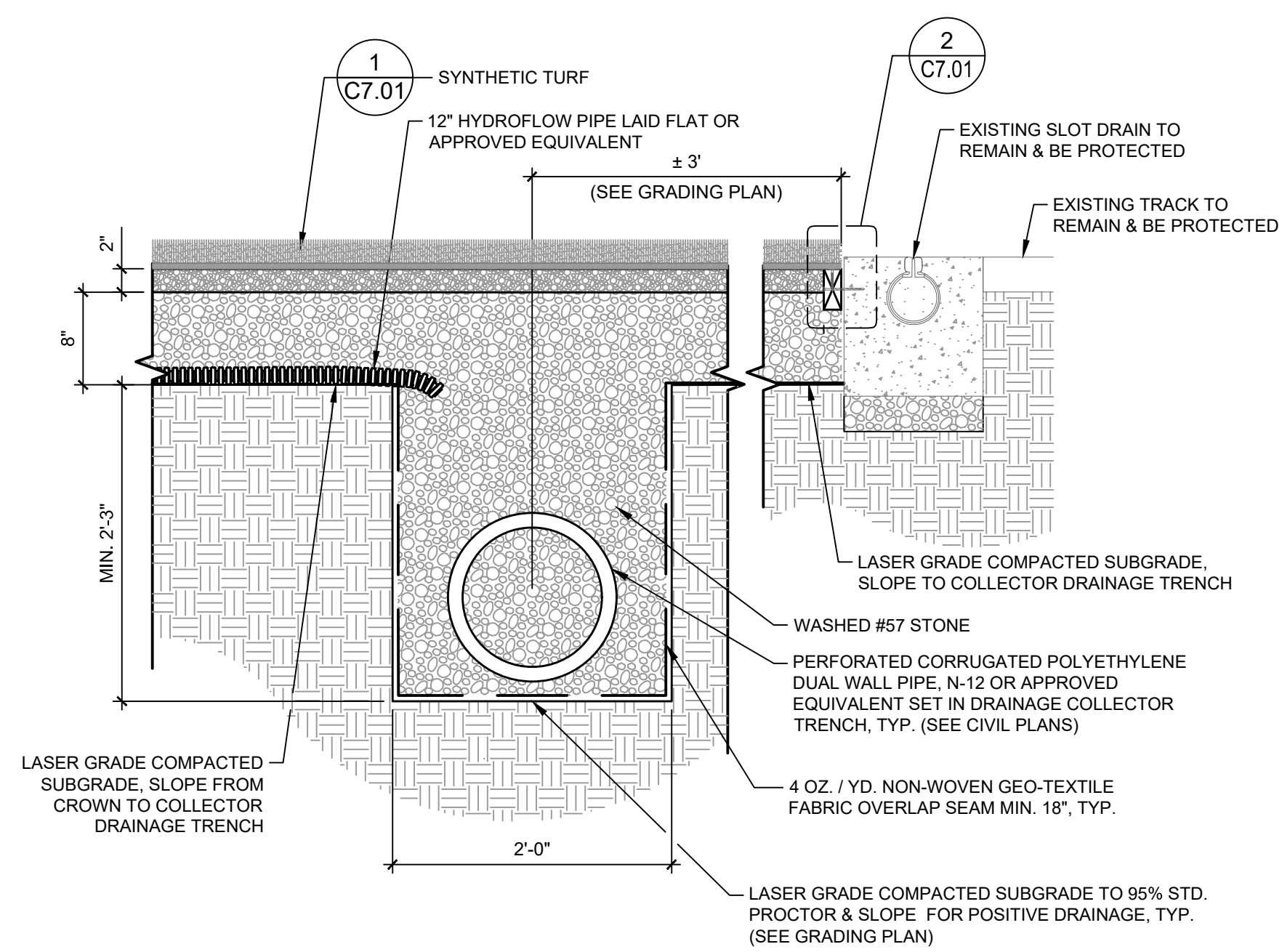
**2 SYNTHETIC TURF EDGE ATTACHMENT DETAIL**  
 C7.01 1 1/2" = 1'-0"



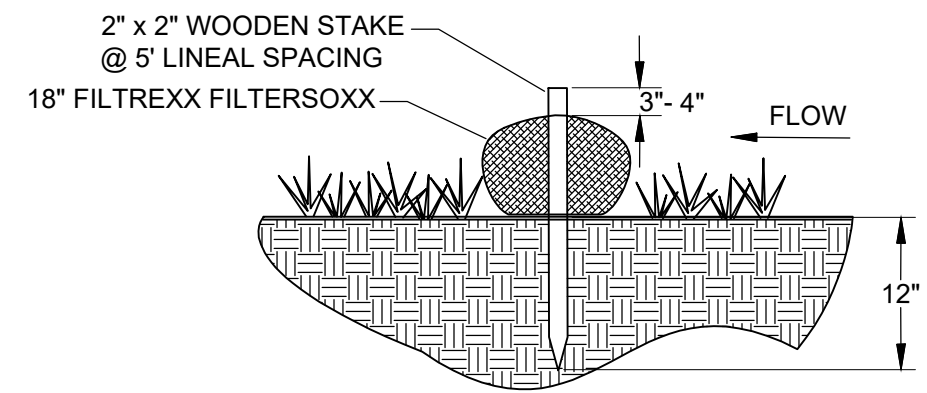
**NOTE:**

- SUBGRADE DRAINAGE SYSTEM SHOWN IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL INSTALL SUBGRADE DRAINAGE SYSTEM AS RECOMMENDED BY THE MANUFACTURER OF THE SYNTHETIC TURF. DRAINAGE SHALL BE TIED INTO CIVIL ENGINEER'S DRAINAGE SYSTEM.
- \*FOR PERMEABLE APPLICATION: MIRAFI 140N OR APPROVED EQUIVALENT. FOR SILTY/CLAY SUBGRADES W/ FINES CONTENT <35% AND A PI <20: MIRAFI 500X OR APPROVED EQUIVALENT.

**3 TYPICAL TURF FIELD SUBDRAINAGE DETAIL**  
 C7.01 1" = 1'-0"



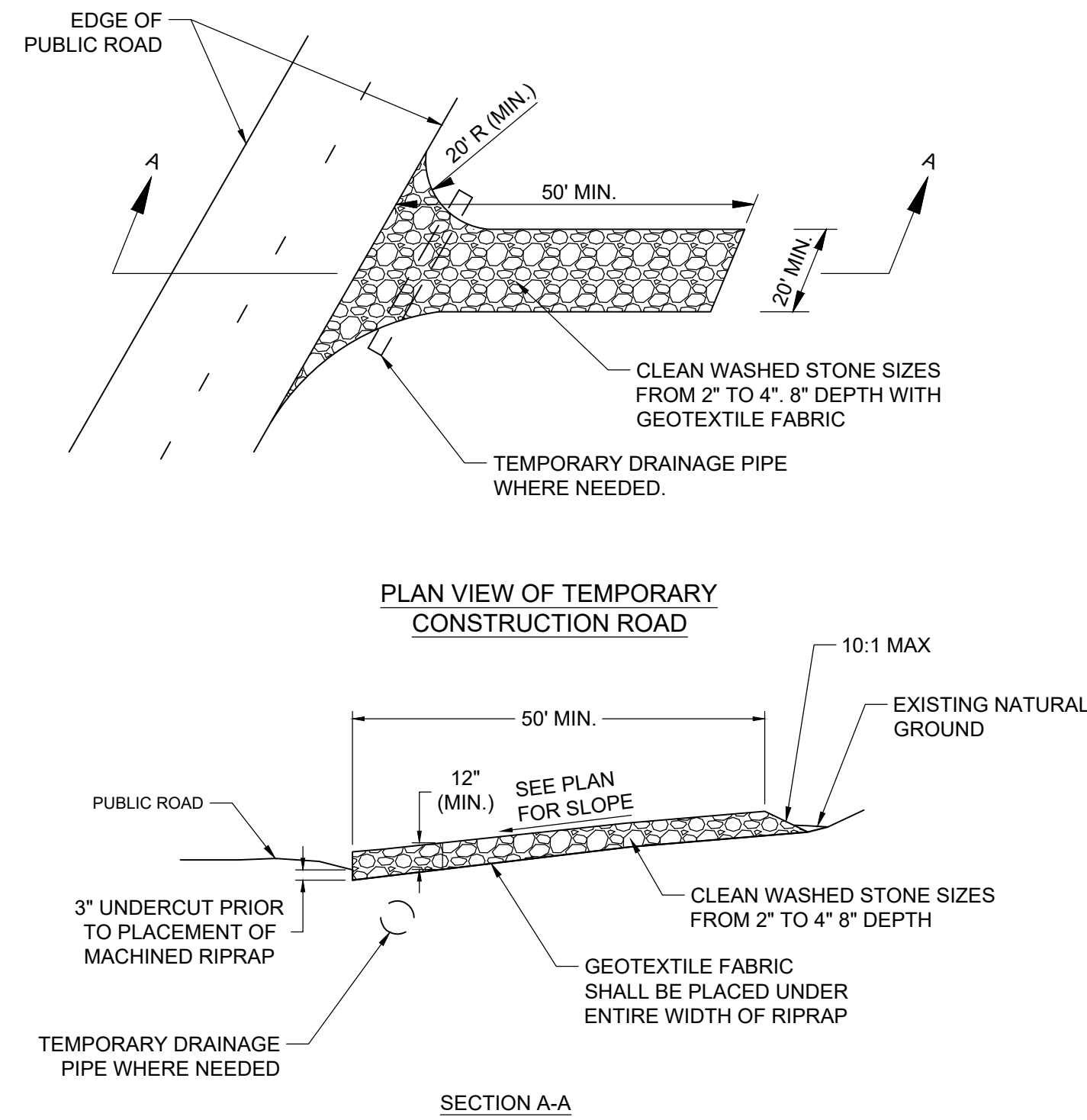
**4 TYPICAL TURF FIELD SUBDRAINAGE COLLECTION @ PERIMETER DETAIL**  
 C7.01 1" = 1'-0"



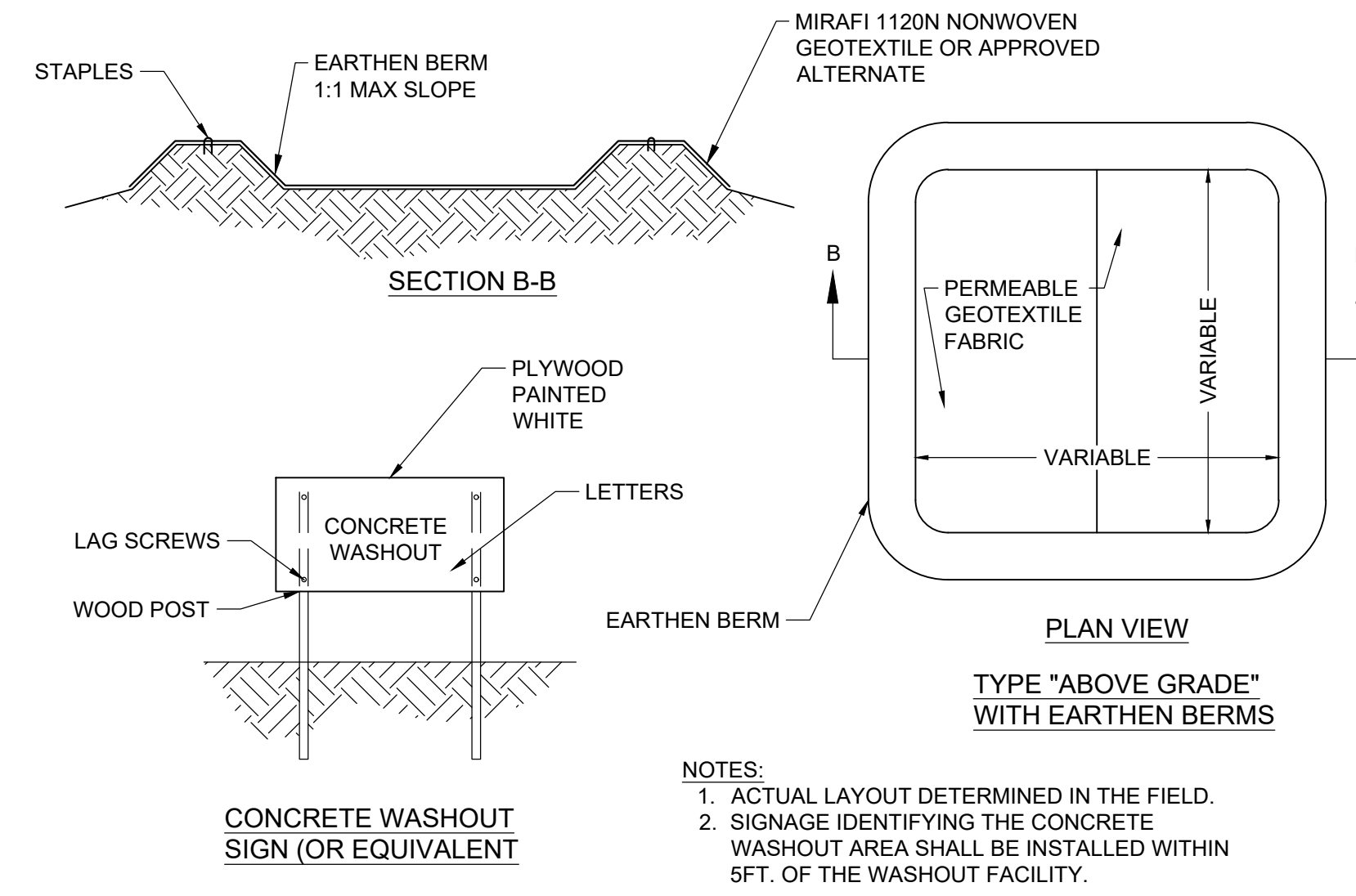
- NOTES:**
1. ALL MATERIAL TO MEET FILTERSOXX SPECIFICATIONS OR APPROVED EQUIVALENT.
  2. FILTERSOXX COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER AND OWNER.
  4. USE SAND BAGS OR CONCRETE BLOCKS TO KEEP SILT SOXX IN PLACE OVER PAVEMENT AND HARDSCAPE AREAS.

**1 SILT SOCK**  
C7.31 SCALE: NTS

- NOTES:**
1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 2 TO 4 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
  2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
  3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
  4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 20 FEET, WHICH EVER IS GREATER.
  5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FABRIC SHALL BE 12 OZ./S.Y. NON-WOVEN.
  6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
  7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
  8. IF APPLICABLE, DIVERSION DITCH AND SEDIMENT TRAP SHALL BE LOCATED AS SHOWN IN PLANS. REPRESENTATION IN THE ABOVE DETAIL IS FOR GENERAL REFERENCE.

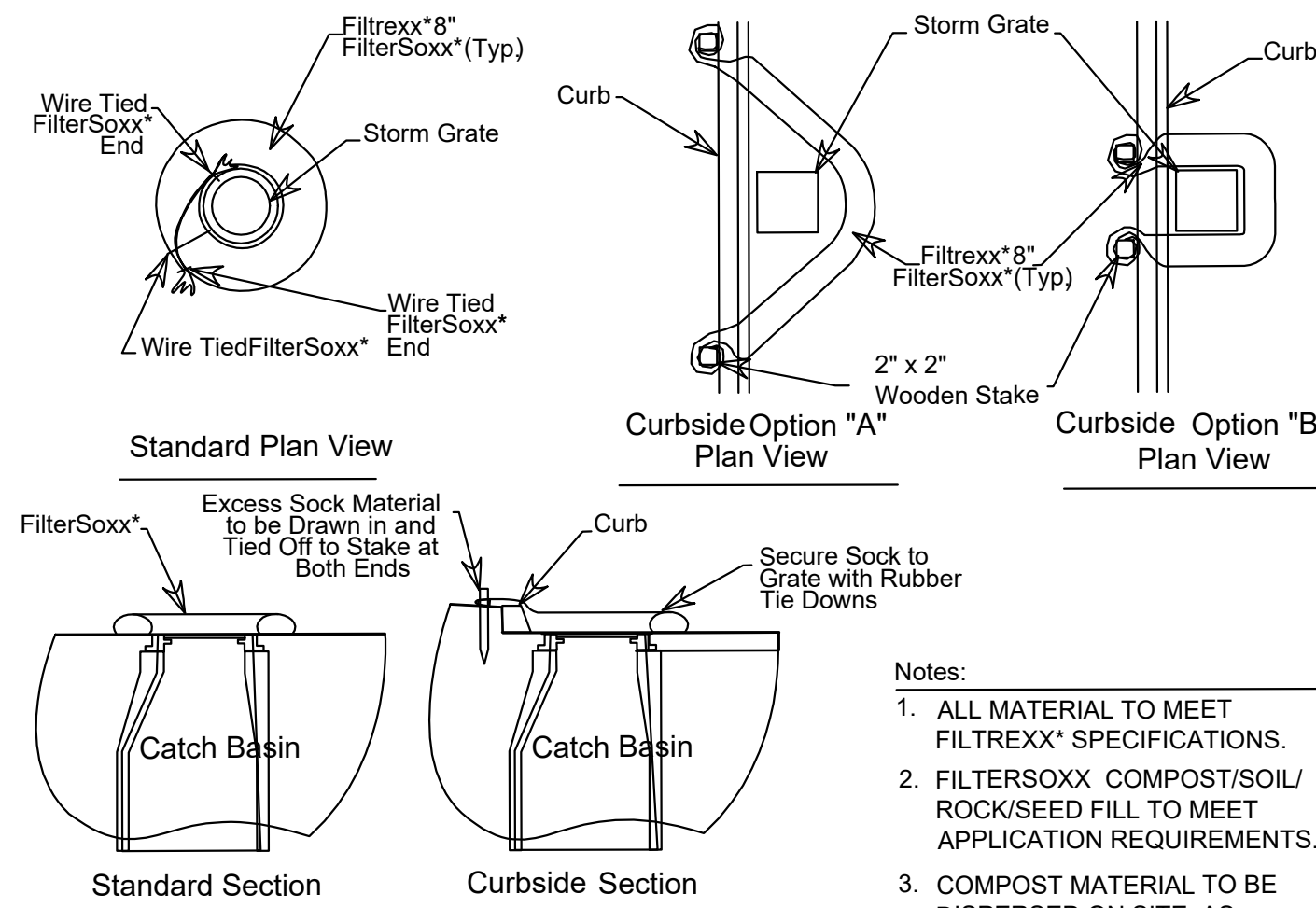


**2 CONSTRUCTION EXIT**  
C7.31 SCALE: NTS



**3 CONCRETE WASHOUT**  
C7.31 SCALE: NTS

**Filtersoxx Inlet Protection Details**



**4 INLET PROTECTION**  
C7.31 SCALE: NTS

**SEEDING SCHEDULE & NOTES:**

PERMANENT SEED MIXTURE					
GROUP	SEEDING DATES	GRASS SEED	PERCENTAGES	RATE/SF	RATE/AC
A	FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	85%	2.5LBS/ 1,000SF	110LBS/ ACRE
		WHITE CLOVER	10%		
		ENGLISH RYE	5%		
B	JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	60%	2.5LBS/ 1,000SF	110LBS/ ACRE
		ENGLISH RYE	2%		
		WHITE CLOVER	10%		
		GERMAN MILLET	10%		
C	AUGUST 1 TO DECEMBER 1	KENTUCKY 31 FESCUE	70%	2.5LBS/ 1,000SF	110LBS/ ACRE
		ENGLISH RYE	20%		
		WHITE CLOVER	10%		
TEMPORARY SEED MIXTURE					
	AUGUST 15 TO OCTOBER 31	ANNUAL RYE GRASS	100%	0.9LBS/ 1,000SF	40LBS/ ACRE
	APRIL 15 TO JUNE 15	BROWN TOP MILLET	100%	0.9LBS/ 1,000SF	40LBS/ ACRE
	SEPTEMBER 15 TO NOVEMBER 30	WINTER WHEAT	100%	4.1LBS/ 1,000SF	3BU/ ACRE

- A. SEEDING SHALL BE IN ACCORDANCE WITH SECTION 801 OF TDOT SPECIFICATIONS. GROUPING REFERS TO TDOT SEED GROUP.
- B. MAY TO SEPTEMBER 20 LB/AC OF STARR MILLET SHALL BE ADDED WITH SPECIFIED SEED GROUPING LISTED ABOVE.
- C. OCTOBER TO APRIL 32 LB/AC OF OATS SHALL BE ADDED WITH SPECIFIED SEED GROUPS LISTED ABOVE.

**5 SEEDING SCHEDULE**  
C7.31 SCALE: NTS

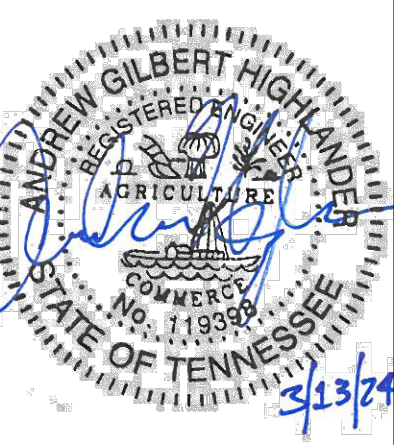
**CONSTRUCTION SEQUENCE**

DESCRIPTION	APR. 2024	MAY 2024	JUN. 2024	JUL. 2024	AUG. 2024
INSTALL INITIAL PERIMETER EROSION CONTROL MEASURES & RELATED DEVICES	█				
SUBGRADE EARTHWORK		█			
INSTALL ARTIFICIAL TURF			█		
MAINTAIN & MODIFY EROSION CONTROL MEASURES & RELATED DEVICES UNTIL STABILIZATION		█	█	█	█
FINAL SITE STABILIZATION				█	█

**6 CONSTRUCTION SCHEDULE**  
C7.31 SCALE: NTS

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SAVED:2/25/2024  
PLOTTED:3/12/2024

**BARGE**  
DESIGN SOLUTIONS



**EPSC DETAILS**  
HAMILTON COUNTY SCHOOLS  
SODDY-DAISY HIGH SCHOOL FOOTBALL/SOCCER  
FIELD RENOVATION  
HAMILTON COUNTY, TN

REV.	DR.	CHK.	DATE	DESCRIPTION
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**C7.31**  
FILE NO. 38505-00