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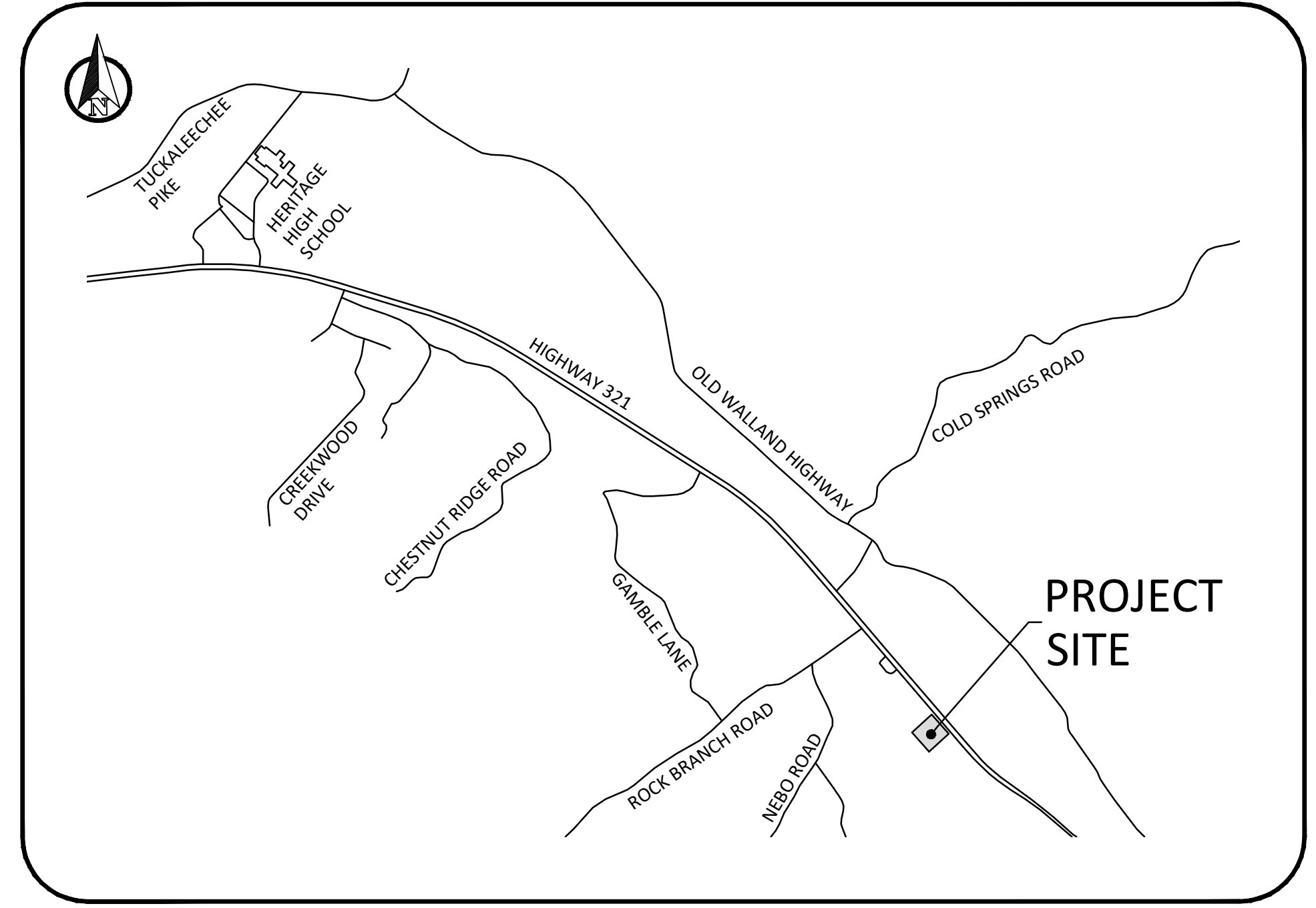
TUCKALEECHEE UTILITY DISTRICT OPERATIONS CENTER

BLOUNT COUNTY, TENNESSEE



TUCKALEECHEE
UTILITY DISTRICT
7706 CHESTNUT HILL
ROAD
TOWNSEND, TN 37882

MR. JORDAN YOUNG
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(865) 448-2230



LOCATION MAP

DRAWING INDEX			
SHEET NO.	REV NO.	ISSUE DATE	TITLE
C0.01	1	11/8/2024	COVER SHEET AND INDEX
C0.02	0	10/2/2024	NOTES AND LEGEND
C1.01	1	11/8/2024	SITE LAYOUT AND PAVING PLAN
C2.01	1	11/8/2024	GRADING AND DRAINAGE PLAN
C3.01	0	10/2/2024	EPSC PLAN - STAGE 1
C3.02	1	11/8/2024	EPSC PLAN - STAGE 2
C4.01	1	11/8/2024	UTILITIES PLAN
C4.02	0	11/8/2024	DRAIN FIELD PLAN
C5.01	1	11/8/2024	DETAILS
C5.02	1	11/8/2024	DETAILS
C5.03	1	11/8/2024	DETAILS
C5.04	0	11/8/2024	DETAILS

TUCKALEECHEE UTILITY DISTRICT

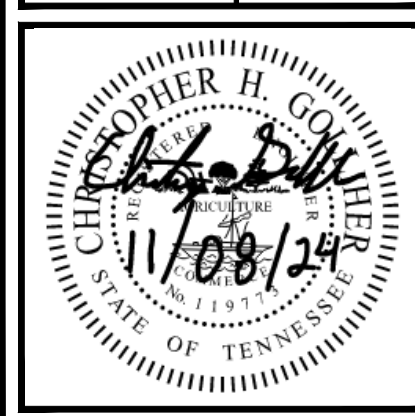
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NO.	DATE	REVISION	BY
1	11/08/2024	REVISED DRAWING INDEX	AE

TUCKALEECHEE UTILITY DISTRICT
OPERATIONS CENTER
COVER SHEET AND INDEX



JOB NO: 735.009
DATE: 10/02/2024

C0.01

IFC
10/02/2024

October 3, 2024 11:35:09 (03-Prop(03-Dwg)173509-C-CV.dwg)

NOTES:

- 1. THE BOUNDARY SURVEY DATA WAS PROVIDED BY MILLER LAND SURVEYING, LLC SURVEY DATED FEBRUARY 22, 2024.
2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TAKEN FROM THE FENCE LINE, PROPERTY LINE, FACE OF CURB, EDGE OF PAVEMENT OR OUTSIDE FACE OF BUILDING.
3. THE MINERAL AGGREGATE BASE AND ASPHALTIC SURFACE COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, AND TESTING REQUIREMENTS OF THESE DRAWINGS, AND THE BLOUNT COUNTY DEPARTMENT OF ENGINEERING STANDARD SPECIFICATIONS.
4. CONCRETE CURB AND PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE CURB AND PAVEMENT SHALL MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE BLOUNT COUNTY DEPARTMENT OF ENGINEERING STANDARD SPECIFICATIONS.
5. TRAFFIC CONTROL DEVICES AND PAVEMENT MARKING SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
6. PROPERTY CONCERNED REFLECTS PARCEL 182.6 AS SHOWN IN BLOUNT COUNTY CLT MAP 060. ZONING FOR THE PROPERTY IS R-1, RURAL DISTRICT 1. TOTAL AREA = ±16.27 AC. TOTAL DISTURBED AREA = ±3.71 AC.
7. OWNER: TUCKALEECHEE UTILITY DISTRICT
7706 CHESTNUT HILL ROAD
TOWNSEND, TN 37882
8. BUILDING SETBACKS ARE 60-FT. IN FRONT, 10-FT. ON SIDE AND 20-FT. ON REAR.
9. REMOVE OVER-PAVEMENT OF ASPHALT AND STONE FROM UNDERNEATH LANDSCAPE AREAS UP TO THE LIMITS THAT HAVE BEEN SPECIFIED (REFER TO THE CURB DETAIL) IN ORDER TO PROVIDE A SOLID BASE FOR THE CONCRETE CURB.
10. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.

GRADING NOTES:

- 1. THE TOPOGRAPHIC DATA WAS PROVIDED BY MILL LAND SURVEYING, LLC DATED FEBRUARY 22, 2024.
2. UNLESS NOTED OTHERWISE, THE PROPOSED GRADES SHOWN ON THESE DRAWINGS ARE FINISHED GRADE. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 2-FT. INTERVALS.
3. THE ACCURACY OF THE GRADES IS DEPENDANT ON THE DATA PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD VERIFY AS NECESSARY PRIOR TO CONSTRUCTION.
4. THE SITE SHALL BE CLEARED AND GRUBBED WITHIN THE LIMITS OF EXCAVATION. COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM CLEARING AND GRUBBING OFF-SITE. BURNING SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS OBTAINED BY THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR MUST OBTAIN A PERMIT AND MEET ALL OF THE REQUIREMENTS AS SPECIFIED BY THE FIRE DEPARTMENT.
5. ALL TREES STUMPS, BOULDERS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE. ROCK SHALL BE SCARIFIED TO DEPTH OF 1 FT BELOW SUBGRADE.
6. STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
7. PROOF ROLL ALL AREAS TO RECEIVE FILL. PROOF ROLL WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK USING A CRISS-CROSS PATTERN (4 PASSES MIN.) AREAS FAILING THE PROOF ROLLING SHALL BE UNDERCUT AND BACKFILLED USING AN ENGINEERED FILL OR STABILIZED BY A METHOD APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
8. AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
9. FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
10. FILL SOILS SHALL HAVE A PI LESS THAN 30 & A MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
11. UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS AND SOILS CLASSIFIED PT, OH, AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
12. FILL MATERIAL SHALL BE PLACED IN LOOSE, HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. UNLESS NOTED OTHERWISE, COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. COMPACT THE UPPER 24 IN. OF FILL BENEATH PAVEMENTS AND THE UPPER 12 IN. BENEATH BUILDING SLABS TO 100% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN -1 TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
13. A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEEDED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
14. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE-DRAINING.
15. PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
16. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT THE FINISHED GRADES CONFORM WITH THE DETENTION POND DESIGN PARAMETERS. ONCE GRADING IS COMPLETE AND PRIOR TO FINAL SEEDING, SUBMIT AN AS-BUILT SURVEY FOR THE OWNER'S REVIEW.
17. SLOPE BOTTOM OF POND @ 2.0% (MIN.).
18. VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: SUBGRADE 0.1', UNPAVED AREAS 0.10', PAVEMENTS 0.04', AND BUILDINGS 0.04'.
19. SLOPES GREATER THAN 4:1 SLOPE AT A HEIGHT GREATER THAN 6-FT SHALL BE TESTED BY THE PROJECT GEOTECHNICAL ENGINEER TO DETERMINE STABILITY.
20. DISTURBED AREAS SHALL BE STABILIZED IN AN EXPEDIENT MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.

STORM PIPE NOTES:

- 1. INSTALL STORM SEWER PIPING AND APPURTENANCES TO MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE BLOUNT COUNTY STORMWATER DEPARTMENT STANDARD SPECIFICATIONS.
2. TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
3. UNLESS NOTED OTHERWISE, STORM SEWER PIPE SHALL BE EITHER CLASS III REINFORCED CONCRETE PIPE (RCP) OR SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE PIPE (HDPE). RCP SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M170 (ASTM C76). HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M294. ALL STORM SEWER PIPE LOCATED WITHIN A PERMANENT DETENTION/RETENTION BASIN SHALL BE CLASS III RCP AND SHALL BE INSTALLED PER LOCAL REQUIREMENTS.
4. ROOF DRAINS SHALL BE SDR 26 POLYVINYL CHLORIDE PIPE (PVC). ROOF DRAINS SHALL BE INSTALLED AT 2.0% MINIMUM SLOPE.
5. HDPE PIPE SHALL BE INSTALLED WITH WATERTIGHT (WT) JOINTS MEETING ALL AASHTO AND ASTM REQUIREMENTS. JOINTS SHALL BE MADE OF POLYISOPRENE AND INSTALLED AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP BY THE MANUFACTURER.
6. PIPE DEFLECTION AND ALIGNMENT SHALL BE CHECKED AFTER BACKFILLING AND COMPACTION ARE COMPLETE AND PRIOR TO PLACING THE BASE. TEST DEFLECTION WITH A MANDREL OR OTHER APPROVED METHOD.
7. PIPE WITH DEFLECTION 5% OR GREATER OR WITH UNDUE MISALIGNMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. PIPE/CULVERTS ARE MEASURED IN TERMS OF HORIZONTAL LENGTH COMPLETE IN PLACE REGARDLESS OF TYPE, DEPTH, CLASS, SHAPE AND SIZE, AS MEASURED ALONG THE CENTERLINE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE (NO DEDUCTIONS FOR STRUCTURES). ACTUAL QUANTITY OF PIPE MAY VARY. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE NECESSARY QUANTITY OF PIPE TO CONSTRUCT THE COMPLETE SYSTEM AS SHOWN. INSTALLATION INCLUDES EXCAVATION, SHORING, FURNISHING AND INSTALLATION OF PIPES, JOINT MATERIALS, COUPLINGS, AND BACKFILL.
9. FOR RCP PIPE WITH SLOPES GREATER THAN 15% USE JOINT TIES OR JOINT FASTENERS AS SPECIFIED BY THE MANUFACTURER. FOR HDPE PIPE WITH SLOPES GREATER THAN 12% USE CONCRETE PIPE ANCHORS AS SPECIFIED BY THE MANUFACTURER.
10. PRIOR TO INSTALLING NEW PIPING, CONTRACTOR SHALL LOCATE EXISTING UTILITIES/STRUCTURES WHERE NEW PIPES CROSS BY POT-HOLING. AFTER EXPOSING EXISTING UTILITY/STRUCTURE, CONTRACTOR SHALL OBTAIN HORIZONTAL AND VERTICAL LOCATIONS BY FIELD SURVEY, AND RESOLVE ANY CONFLICTS BETWEEN UNDERGROUND UTILITIES/STRUCTURES AND NEW PIPING UNDER THE DIRECTION OF THE OWNER PRIOR TO INSTALLING NEW PIPING.

EPSC NOTES:

- 1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TDEC'S EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC'S CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS. THE DEVICES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.
2. INSTALL TEMPORARY SEDIMENT TRAP(S) WHERE SHOWN OR AS OTHERWISE APPROPRIATE. CONSTRUCT AND MAINTAIN IN ACCORDANCE WITH THE REQUIREMENTS OF TDEC'S EROSION & SEDIMENT CONTROL HANDBOOK. MUDDY WATER COLLECTED IN SEDIMENT TRAP(S) SHALL BE HELD UNTIL IT IS AT LEAST AS CLEAR AS UPSTREAM WATER BEFORE IT IS DISCHARGED TO SURFACE WATERS. DISCHARGE THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION & SEDIMENTATION.
3. INSTALL TEMPORARY DIVERSION BERMS OR DIVERSION CHANNELS AS NECESSARY TO DIVERT STORM WATER FROM RUNNING ONTO THE DISTURBED AREAS AND TO DIVERT RUNOFF FROM DISTURBED AREAS TO THE TEMPORARY SEDIMENT TRAP(S).
4. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
5. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS, WHICH SHOW SIGNS OF EXCESSIVE EROSION.
6. UNLESS NOTED OTHERWISE, PERMANENT SEEDING SHALL BE FESCUE (TALL TURF-TYPE, CHEWINGS, OR CREEPING RED) AND SHALL BE FRESH CLEAN AND OF NEW CROP SEED. SEED AT A RATE OF 8 LBS./1000 S.F. USE A SLOW RELEASE STARTER FERTILIZER AT 1 LB. NITROGEN PER 1,000 S.F. WITH LIME AT A RATE OF 50 LBS. PER 1,000 S.F. IF GRADING IS PERFORMED DURING THE WINTER MONTHS, SEED MIXTURE SHALL BE SUPPLEMENTED WITH A WINTER RYE AT A RATE OF 3 LBS PER 1,000 S.F. TO ASSURE STABILIZATION DURING THE WINTER SEASON.
7. UNLESS NOTED OTHERWISE, MULCH WITH STRAW AT A RATE OF 100 LBS./1000 S.F. OVER THE SEEDED AREAS.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SITE CONSTRUCTION POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
9. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE, EROSION PREVENTION AND SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

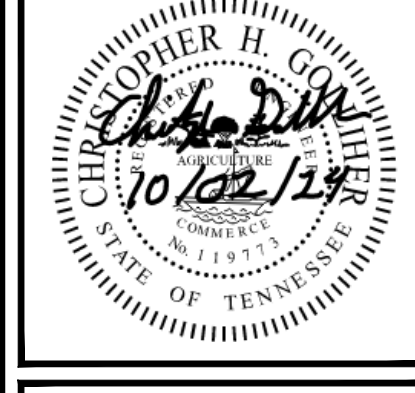
- CONCRETE
GRAVEL DRIVE
PROPOSED PROPERTY LINE
PROPOSED CHAIN LINK FENCE
PROPOSED WATER LINE
PROPOSED WATER VALVE
PROPOSED REDUCER
PROPOSED SEWER LINE
PROPOSED SEWER LINE
EXISTING CONTOUR
PROPOSED FLOW ARROW
BENCHMARK
PROPOSED CONTOUR
SILT FENCE
SPOT ELEVATION
PROPOSED SWALE/DITCH
EXISTING BUILDING
EXISTING DITCH OR WATER FEATURE
EXISTING CHAIN LINK FENCE
EXISTING RIGHT-OF-WAY
EXISTING PROPERTY LINE
EXISTING EASEMENT LINE
EXISTING SANITARY SEWER MANHOLE
EXISTING WATER VALVE
EXISTING WATER METER
EXISTING LIGHT POLE
EXISTING CLEANOUT
EXISTING UTILITY POLE
EXISTING AREA DRAIN
EXISTING TREE
EXISTING SANITARY SEWER (GRAVITY)
EXISTING OVERHEAD UTILITY LINE
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING FORCE MAIN
EXISTING DRAINAGE CULVERT
EXISTING WATER LINE TO BE RETIRED
EXISTING GUARDRAIL
TREELINE



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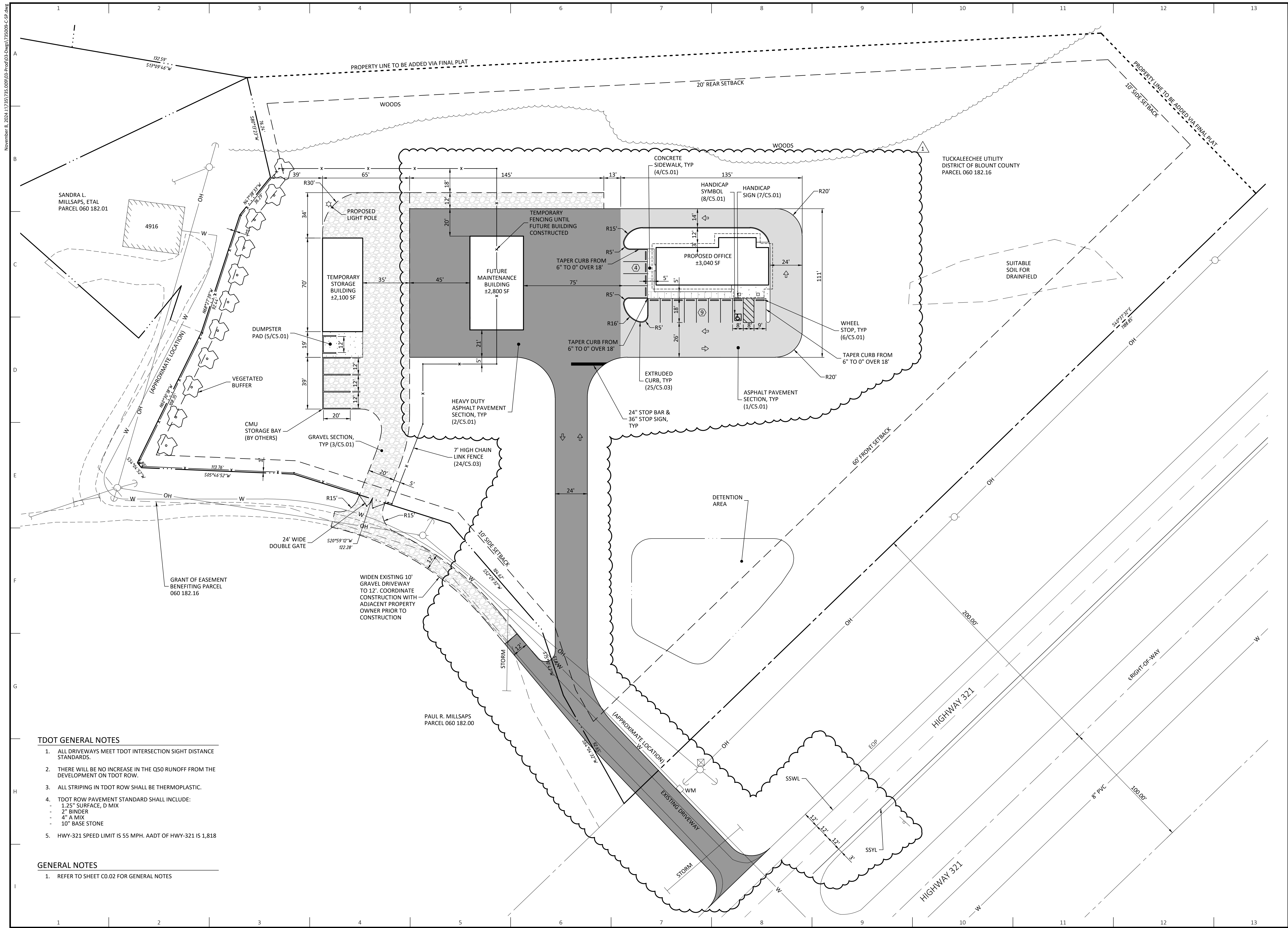
Table with columns for NO., DATE, and REVISION.

TUCKALEECHEE UTILITY DISTRICT OPERATIONS CENTER
NOTES AND LEGEND



JOB NO: 735.009
DATE: 10/02/2024

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IFC
10/02/2024

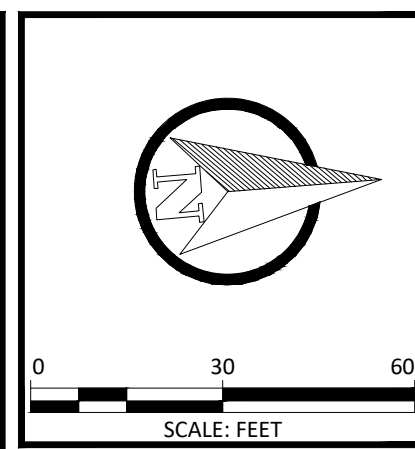


TDOT GENERAL NOTES

1. ALL DRIVEWAYS MEET TDOT INTERSECTION SIGHT DISTANCE STANDARDS.
2. THERE WILL BE NO INCREASE IN THE Q50 RUNOFF FROM THE DEVELOPMENT ON TDOT ROW.
3. ALL STRIPING IN TDOT ROW SHALL BE THERMOPLASTIC.
4. TDOT ROW PAVEMENT STANDARD SHALL INCLUDE:
 - 1.25" SURFACE, D MIX
 - 2" BINDER
 - 4" A MIX
 - 10" BASE STONE
5. HWY-321 SPEED LIMIT IS 55 MPH. AADT OF HWY-321 IS 1,818

GENERAL NOTES

1. REFER TO SHEET C0.02 FOR GENERAL NOTES



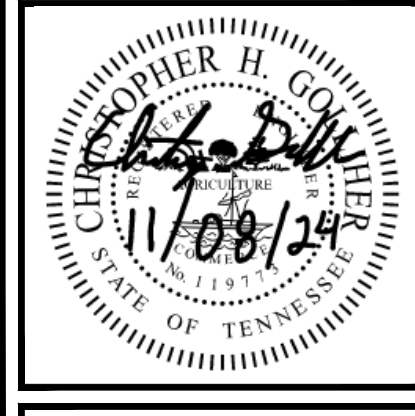
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NO.	DATE	REVISION	AE	BY
1	11/08/2024	REVISED DETAIL CALLOUTS		

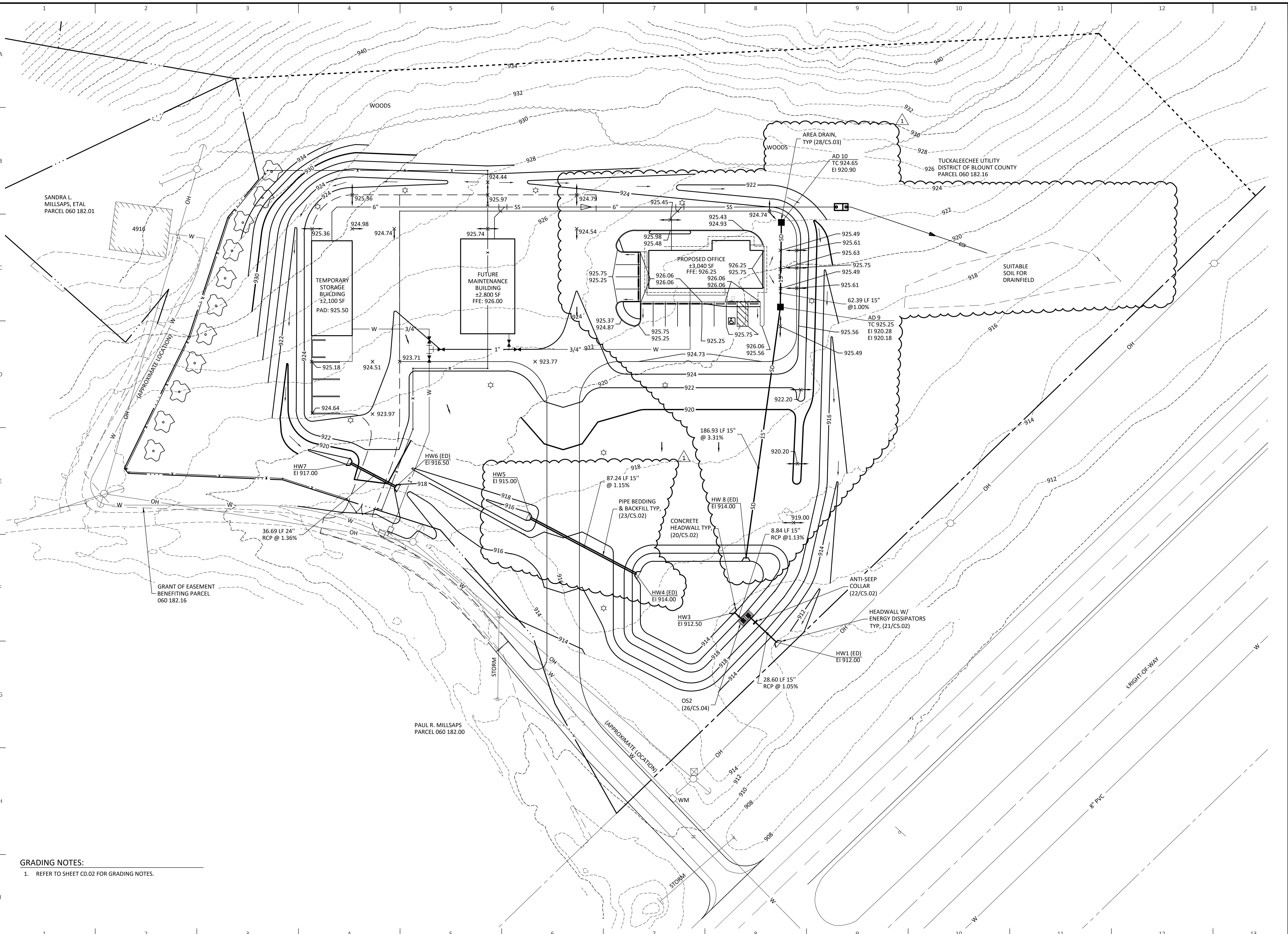
TUCKALEECHEE UTILITY DISTRICT
OPERATIONS CENTER
SITE LAYOUT AND PAVING PLAN



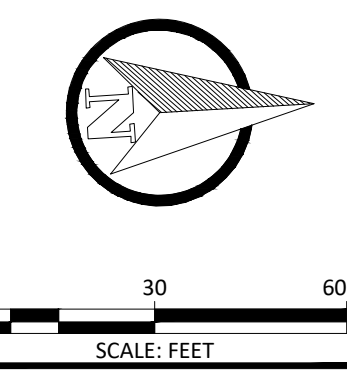
JOB NO: 735.009
 DATE: 10/02/2024

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 10/02/2024

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GRADING NOTES:
 1. REFER TO SHEET CO.02 FOR GRADING NOTES.



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NO.	DATE	REVISION	BY	AE
1	11/08/2024	REVISED TO REMOVE SWALE, ADD PIPE AND CALLOUTS		

TUCKALEECHEE UTILITY DISTRICT
OPERATIONS CENTER

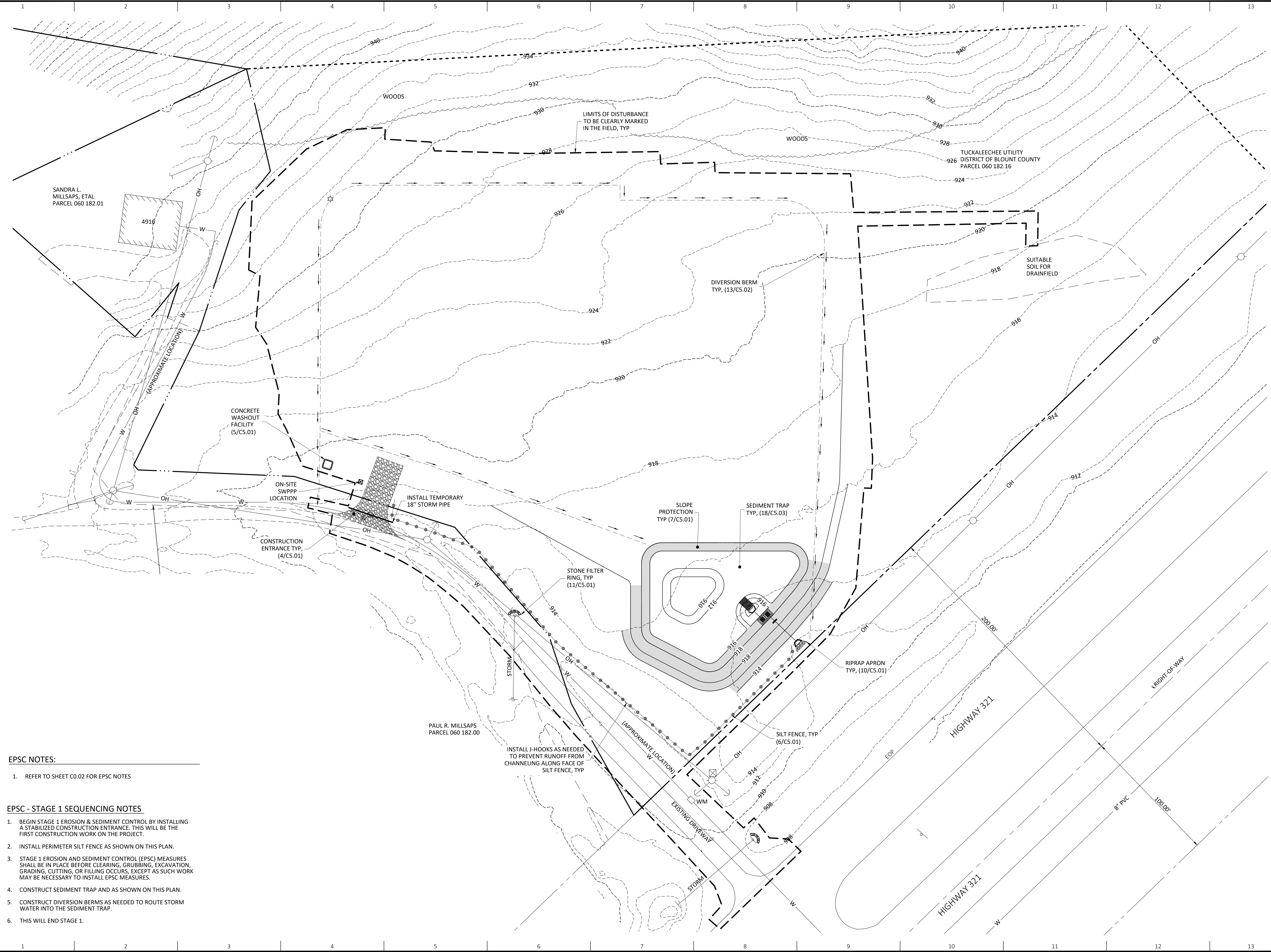
GRADING AND DRAINAGE PLAN



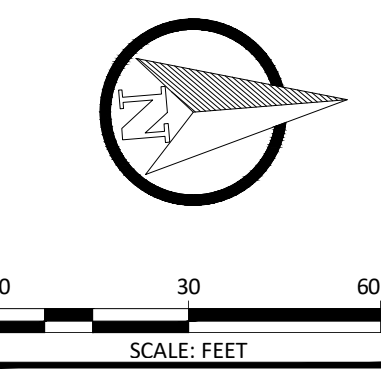
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 10/02/2024

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- EPSC NOTES:**
- REFER TO SHEET C0.02 FOR EPSC NOTES
- EPSC - STAGE 1 SEQUENCING NOTES**
- BEGIN STAGE 1 EROSION & SEDIMENT CONTROL BY INSTALLING A STABILIZED CONSTRUCTION ENTRANCE. THIS WILL BE THE FIRST CONSTRUCTION WORK ON THE PROJECT.
 - INSTALL PERIMETER SILT FENCE AS SHOWN ON THIS PLAN.
 - STAGE 1 EROSION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
 - CONSTRUCT SEDIMENT TRAP AND AS SHOWN ON THIS PLAN.
 - CONSTRUCT DIVERSION BERMS AS NEEDED TO ROUTE STORM WATER INTO THE SEDIMENT TRAP.
 - THIS WILL END STAGE 1.



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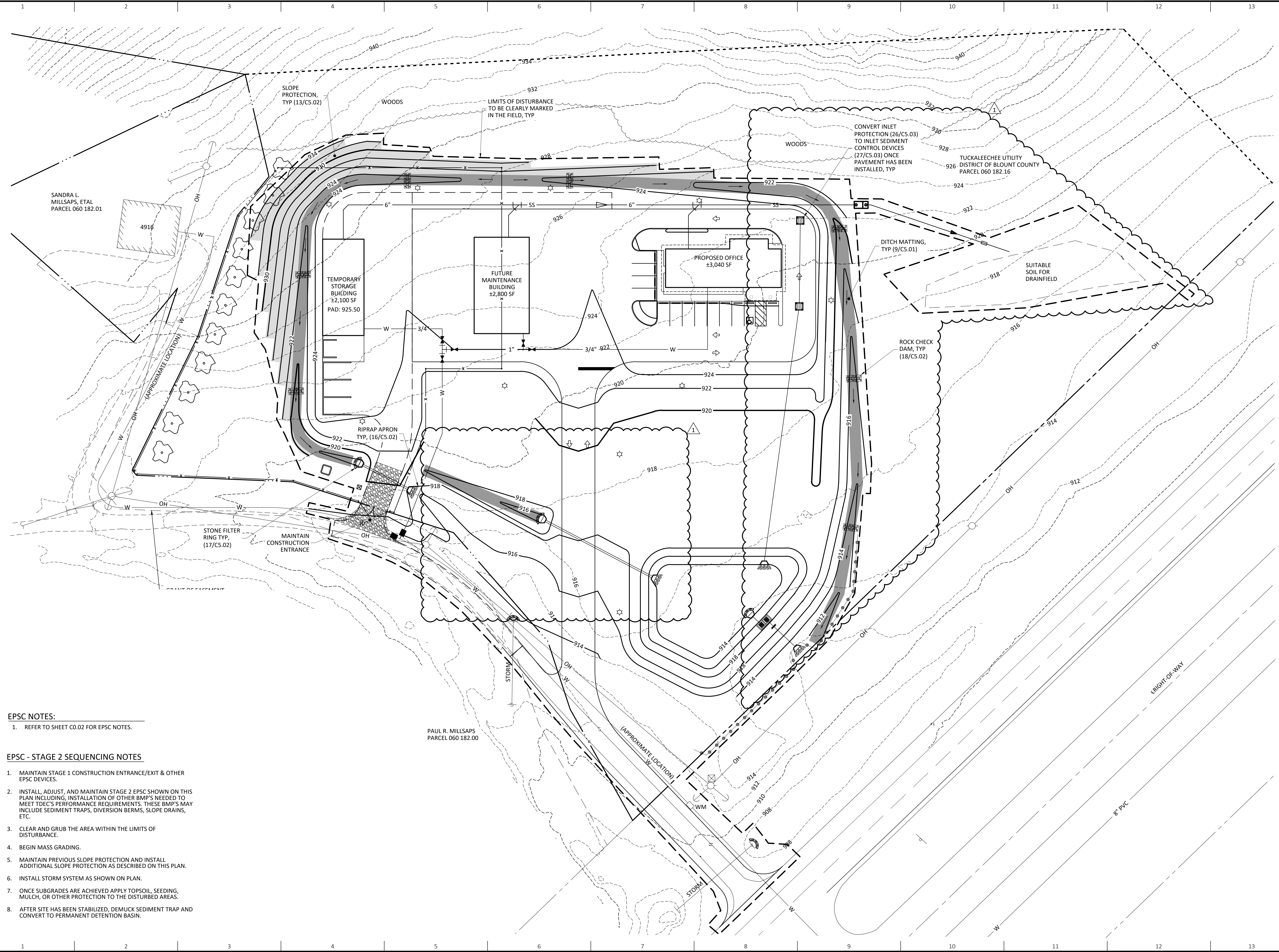
EPSC PLAN - STAGE 1



JOB NO: 735.009
 DATE: 10/02/2024

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 10/02/2024

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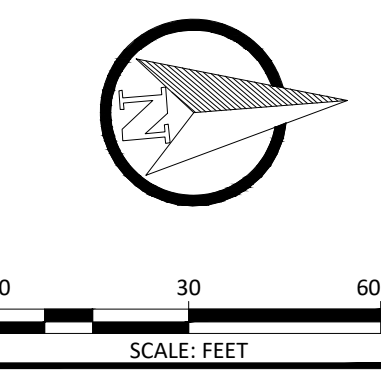


EPSC NOTES:

1. REFER TO SHEET C0.02 FOR EPSC NOTES.

EPSC - STAGE 2 SEQUENCING NOTES

1. MAINTAIN STAGE 1 CONSTRUCTION ENTRANCE/EXIT & OTHER EPSC DEVICES.
2. INSTALL, ADJUST, AND MAINTAIN STAGE 2 EPSC SHOWN ON THIS PLAN INCLUDING, INSTALLATION OF OTHER BMP'S NEEDED TO MEET TDEC'S PERFORMANCE REQUIREMENTS. THESE BMP'S MAY INCLUDE SEDIMENT TRAPS, DIVERSION BERMS, SLOPE DRAINS, ETC.
3. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF DISTURBANCE.
4. BEGIN MASS GRADING.
5. MAINTAIN PREVIOUS SLOPE PROTECTION AND INSTALL ADDITIONAL SLOPE PROTECTION AS DESCRIBED ON THIS PLAN.
6. INSTALL STORM SYSTEM AS SHOWN ON PLAN.
7. ONCE SUBGRADES ARE ACHIEVED APPLY TOPSOIL, SEEDING, MULCH, OR OTHER PROTECTION TO THE DISTURBED AREAS.
8. AFTER SITE HAS BEEN STABILIZED, DEMUCK SEDIMENT TRAP AND CONVERT TO PERMANENT DETENTION BASIN.



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NO.	DATE	REVISION	BY	AE
1	11/08/2024	REVISED PER REMOVAL OF SWALE AND ADDITION OF PIPE		

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EPSC PLAN - STAGE 2

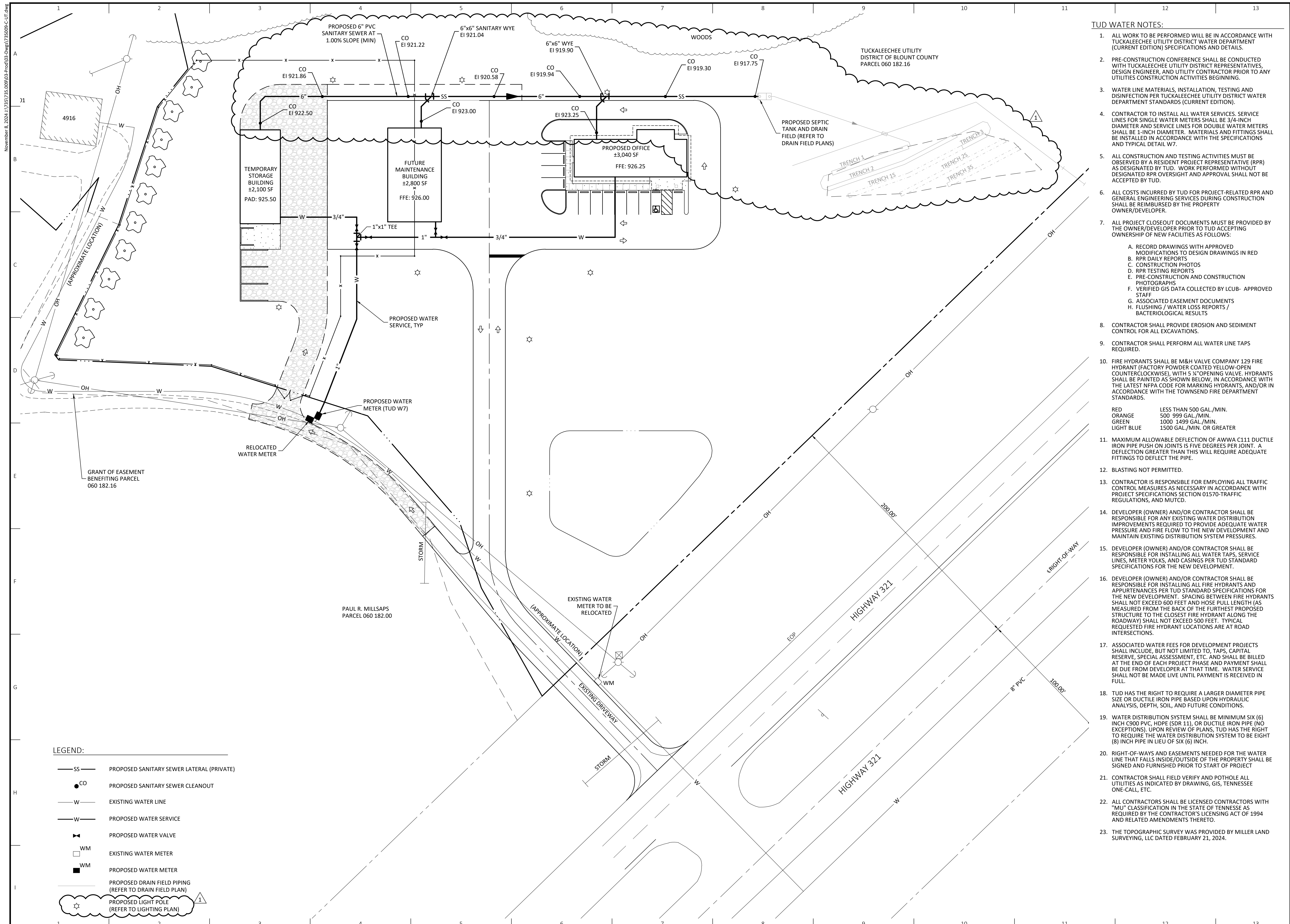


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C3.02

IFC
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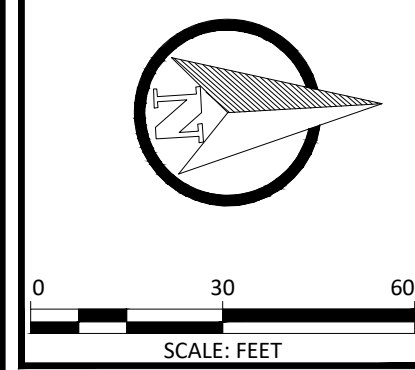
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TUD WATER NOTES:

- ALL WORK TO BE PERFORMED WILL BE IN ACCORDANCE WITH TUCKALEECHEE UTILITY DISTRICT WATER DEPARTMENT (CURRENT EDITION) SPECIFICATIONS AND DETAILS.
- PRE-CONSTRUCTION CONFERENCE SHALL BE CONDUCTED WITH TUCKALEECHEE UTILITY DISTRICT REPRESENTATIVES, DESIGN ENGINEER, AND UTILITY CONTRACTOR PRIOR TO ANY UTILITIES CONSTRUCTION ACTIVITIES BEGINNING.
- WATER LINE MATERIALS, INSTALLATION, TESTING AND DISINFECTION PER TUCKALEECHEE UTILITY DISTRICT WATER DEPARTMENT STANDARDS (CURRENT EDITION).
- CONTRACTOR TO INSTALL ALL WATER SERVICES. SERVICE LINES FOR SINGLE WATER METERS SHALL BE 3/4-INCH DIAMETER AND SERVICE LINES FOR DOUBLE WATER METERS SHALL BE 1-INCH DIAMETER. MATERIALS AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND TYPICAL DETAIL W7.
- ALL CONSTRUCTION AND TESTING ACTIVITIES MUST BE OBSERVED BY A RESIDENT PROJECT REPRESENTATIVE (RPR) AS DESIGNATED BY TUD. WORK PERFORMED WITHOUT DESIGNATED RPR OVERSIGHT AND APPROVAL SHALL NOT BE ACCEPTED BY TUD.
- ALL COSTS INCURRED BY TUD FOR PROJECT-RELATED RPR AND GENERAL ENGINEERING SERVICES DURING CONSTRUCTION SHALL BE REIMBURSED BY THE PROPERTY OWNER/DEVELOPER.
- ALL PROJECT CLOSEOUT DOCUMENTS MUST BE PROVIDED BY THE OWNER/DEVELOPER PRIOR TO TUD ACCEPTING OWNERSHIP OF NEW FACILITIES AS FOLLOWS:
 - RECORD DRAWINGS WITH APPROVED MODIFICATIONS TO DESIGN DRAWINGS IN RED
 - RPR DAILY REPORTS
 - CONSTRUCTION PHOTOS
 - RPR TESTING REPORTS
 - PRE-CONSTRUCTION AND CONSTRUCTION PHOTOGRAPHS
 - VERIFIED GIS DATA COLLECTED BY LCUB- APPROVED STAFF
 - ASSOCIATED EASEMENT DOCUMENTS
 - FLUSHING / WATER LOSS REPORTS / BACTERIOLOGICAL RESULTS
- CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL FOR ALL EXCAVATIONS.
- CONTRACTOR SHALL PERFORM ALL WATER LINE TAPS REQUIRED.
- FIRE HYDRANTS SHALL BE M&H VALVE COMPANY 129 FIRE HYDRANT FACTORY POWDER COATED LOW OPEN COUNTERCLOCKWISE, WITH 5/8" OPENING VALVE. HYDRANTS SHALL BE PAINTED AS SHOWN BELOW, IN ACCORDANCE WITH THE LATEST NFPA CODE FOR MARKING HYDRANTS, AND/OR IN ACCORDANCE WITH THE TOWNSEND FIRE DEPARTMENT STANDARDS.

RED	LESS THAN 500 GAL./MIN.
ORANGE	500 - 999 GAL./MIN.
GREEN	1000 - 1499 GAL./MIN.
LIGHT BLUE	1500 GAL./MIN. OR GREATER
- MAXIMUM ALLOWABLE DEFLECTION OF AWWA C111 DUCTILE IRON PIPE PUSH ON JOINTS IS FIVE DEGREES PER JOINT. A DEFLECTION GREATER THAN THIS WILL REQUIRE ADEQUATE FITTINGS TO DEFLECT THE PIPE.
- BLASTING NOT PERMITTED.
- CONTRACTOR IS RESPONSIBLE FOR EMPLOYING ALL TRAFFIC CONTROL MEASURES AS NECESSARY IN ACCORDANCE WITH PROJECT SPECIFICATIONS SECTION 01570-TRAFFIC REGULATIONS, AND MUTCD.
- DEVELOPER (OWNER) AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING WATER DISTRIBUTION IMPROVEMENTS REQUIRED TO PROVIDE ADEQUATE WATER PRESSURE AND FIRE FLOW TO THE NEW DEVELOPMENT AND MAINTAIN EXISTING DISTRIBUTION SYSTEM PRESSURES.
- DEVELOPER (OWNER) AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL WATER TAPS, SERVICE LINES, METER YOLKS, AND CASINGS PER TUD STANDARD SPECIFICATIONS FOR THE NEW DEVELOPMENT.
- DEVELOPER (OWNER) AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL FIRE HYDRANTS AND APPURTENANCES PER TUD STANDARD SPECIFICATIONS FOR THE NEW DEVELOPMENT. SPACING BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 600 FEET AND HOSE PULL LENGTH (AS MEASURED FROM THE BACK OF THE FURTHEST PROPOSED STRUCTURE TO THE CLOSEST FIRE HYDRANT ALONG THE ROADWAY) SHALL NOT EXCEED 500 FEET. TYPICAL REQUESTED FIRE HYDRANT LOCATIONS ARE AT ROAD INTERSECTIONS.
- ASSOCIATED WATER FEES FOR DEVELOPMENT PROJECTS SHALL INCLUDE, BUT NOT LIMITED TO, TAPS, CAPITAL RESERVE, SPECIAL ASSESSMENT, ETC. AND SHALL BE BILLED AT THE END OF EACH PROJECT PHASE AND PAYMENT SHALL BE DUE FROM DEVELOPER AT THAT TIME. WATER SERVICE SHALL NOT BE MADE LIVE UNTIL PAYMENT IS RECEIVED IN FULL.
- TUD HAS THE RIGHT TO REQUIRE A LARGER DIAMETER PIPE SIZE OR DUCTILE IRON PIPE BASED UPON HYDRAULIC ANALYSIS, DEPTH, SOIL, AND FUTURE CONDITIONS.
- WATER DISTRIBUTION SYSTEM SHALL BE MINIMUM SIX (6) INCH C900 PVC, HDPE (SDR 11), OR DUCTILE IRON PIPE (NO EXCEPTIONS). UPON REVIEW OF PLANS, TUD HAS THE RIGHT TO REQUIRE THE WATER DISTRIBUTION SYSTEM TO BE EIGHT (8) INCH PIPE IN LIEU OF SIX (6) INCH.
- RIGHT-OF-WAYS AND EASEMENTS NEEDED FOR THE WATER LINE THAT FALLS INSIDE/OUTSIDE OF THE PROPERTY SHALL BE SIGNED AND FURNISHED PRIOR TO START OF PROJECT
- CONTRACTOR SHALL FIELD VERIFY AND POTHOLE ALL UTILITIES AS INDICATED BY DRAWING, GIS, TENNESSEE ONE-CALL, ETC.
- ALL CONTRACTORS SHALL BE LICENSED CONTRACTORS WITH "MU" CLASSIFICATION IN THE STATE OF TENNESSEE AS REQUIRED BY THE CONTRACTOR'S LICENSING ACT OF 1994 AND RELATED AMENDMENTS THERETO.
- THE TOPOGRAPHIC SURVEY WAS PROVIDED BY MILLER LAND SURVEYING, LLC DATED FEBRUARY 21, 2024.



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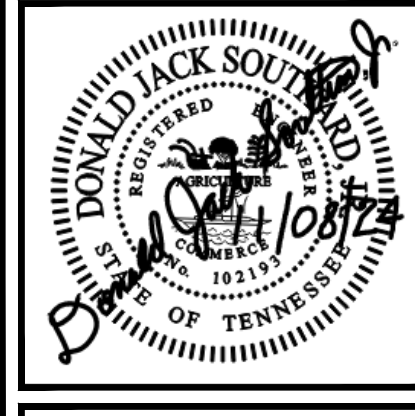
TUCKALEECHEE UTILITY DISTRICT
 7706 CHESTNUT HILL ROAD
 TOWNSEND, TN 37882

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NO.	DATE	BY	REVISION
1	11/08/24		REVISED SANITARY SEWER/ADD LIGHT POLES

TUCKALEECHEE UTILITY DISTRICT
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UTILITIES PLAN



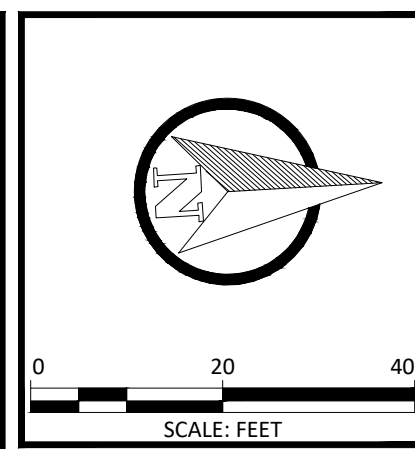
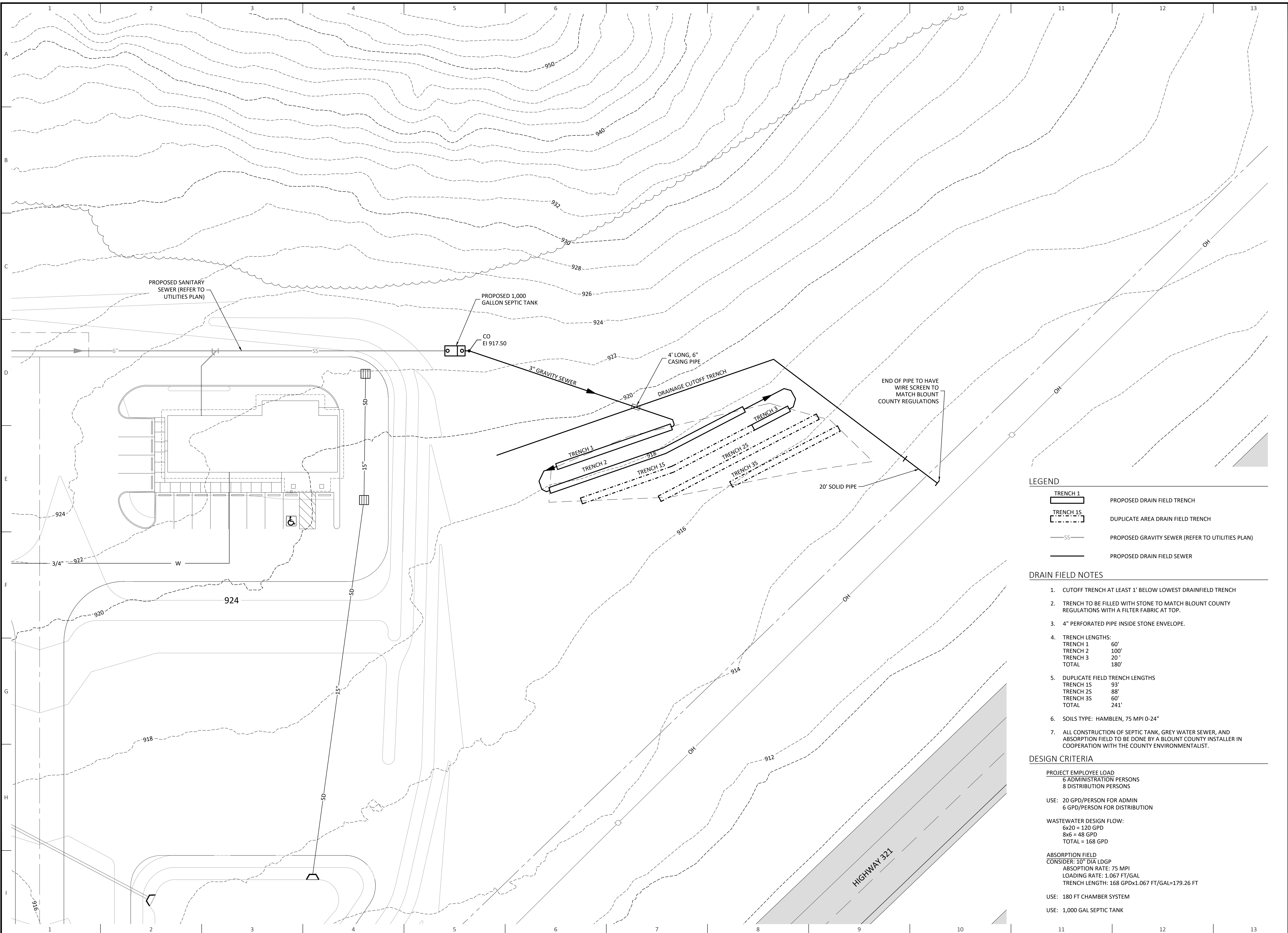
JOB NO: 735.009
 DATE: 10/02/2024

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 10/02/2024

LEGEND:

- SS— PROPOSED SANITARY SEWER LATERAL (PRIVATE)
- CO PROPOSED SANITARY SEWER CLEANOUT
- W— EXISTING WATER LINE
- W— PROPOSED WATER SERVICE
- ▶ PROPOSED WATER VALVE
- WM EXISTING WATER METER
- WM PROPOSED WATER METER
- PROPOSED DRAIN FIELD PIPING (REFER TO DRAIN FIELD PLAN)
- ☼ PROPOSED LIGHT POLE (REFER TO LIGHTING PLAN)

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NO.	DATE	REVISION	BY

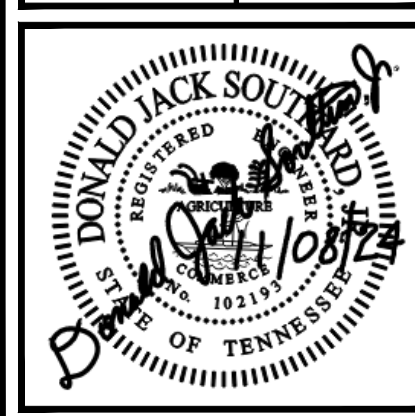
- LEGEND**
- TRENCH 1 PROPOSED DRAIN FIELD TRENCH
 - TRENCH 15 DUPLICATE AREA DRAIN FIELD TRENCH
 - PROPOSED GRAVITY SEWER (REFER TO UTILITIES PLAN)
 - PROPOSED DRAIN FIELD SEWER

- DRAIN FIELD NOTES**
- CUTOFF TRENCH AT LEAST 1' BELOW LOWEST DRAINFIELD TRENCH
 - TRENCH TO BE FILLED WITH STONE TO MATCH BLOUNT COUNTY REGULATIONS WITH A FILTER FABRIC AT TOP.
 - 4" PERFORATED PIPE INSIDE STONE ENVELOPE.
 - TRENCH LENGTHS:
 TRENCH 1 60'
 TRENCH 2 100'
 TRENCH 3 20'
 TOTAL 180'
 - DUPLICATE FIELD TRENCH LENGTHS
 TRENCH 15 93'
 TRENCH 25 88'
 TRENCH 35 60'
 TOTAL 241'
 - SOILS TYPE: HAMBLEN, 75 MPI 0-24"
 - ALL CONSTRUCTION OF SEPTIC TANK, GREY WATER SEWER, AND ABSORPTION FIELD TO BE DONE BY A BLOUNT COUNTY INSTALLER IN COOPERATION WITH THE COUNTY ENVIRONMENTALIST.

- DESIGN CRITERIA**
- PROJECT EMPLOYEE LOAD
 6 ADMINISTRATION PERSONS
 8 DISTRIBUTION PERSONS
- USE: 20 GPD/PERSON FOR ADMIN
 6 GPD/PERSON FOR DISTRIBUTION
- WASTEWATER DESIGN FLOW:
 6x20 = 120 GPD
 8x6 = 48 GPD
 TOTAL = 168 GPD
- ABSORPTION FIELD
 CONSIDER: 10" DIA LDGP
 ABSORPTION RATE: 75 MPI
 LOADING RATE: 1.067 FT/GAL
 TRENCH LENGTH: 168 GPDx1.067 FT/GAL=179.26 FT
- USE: 180 FT CHAMBER SYSTEM
- USE: 1,000 GAL SEPTIC TANK

**TUCKALEECHEE UTILITY DISTRICT
 OPERATIONS CENTER**

DRAIN FIELD PLAN

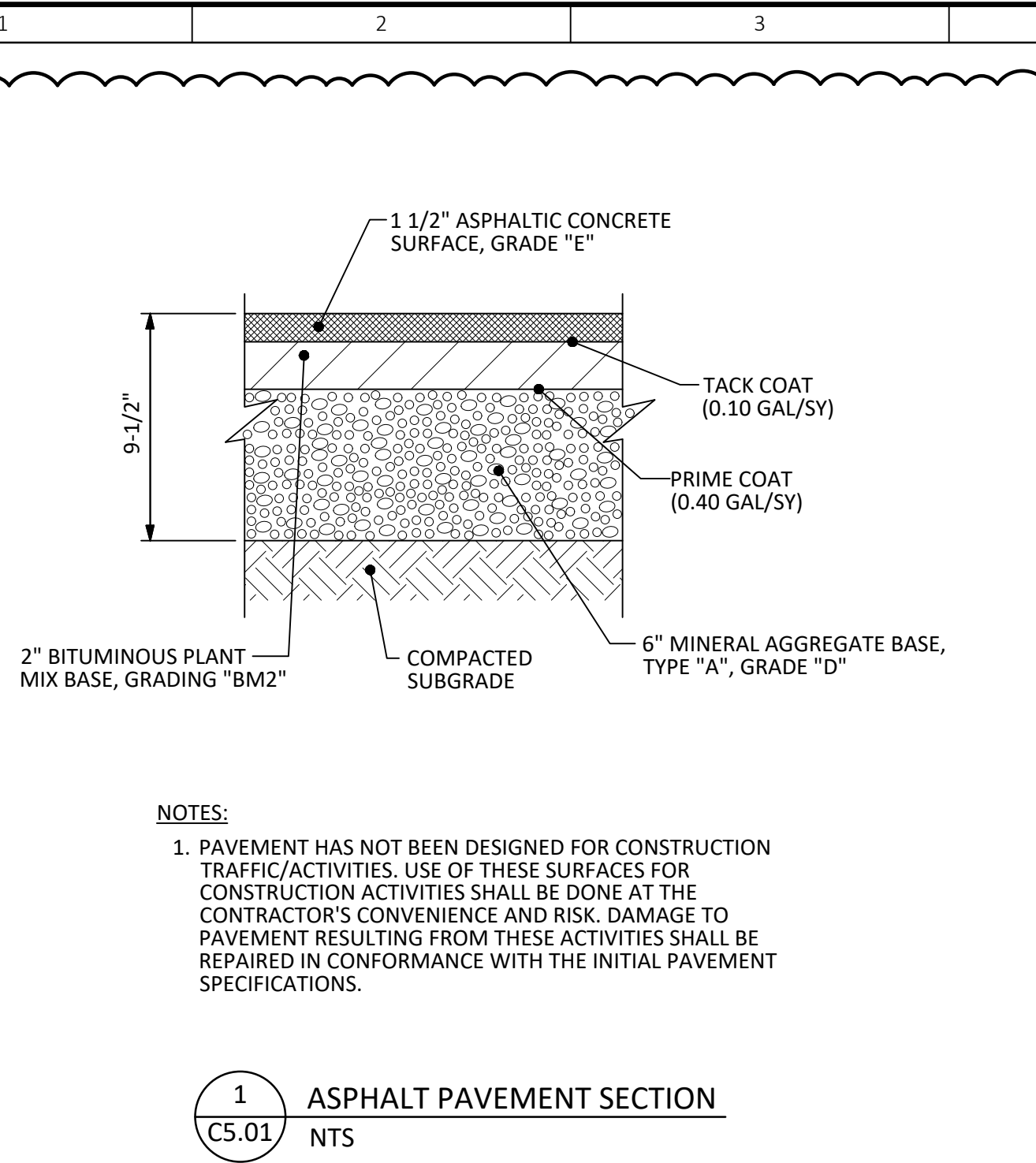


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 DATE: 11/08/2024

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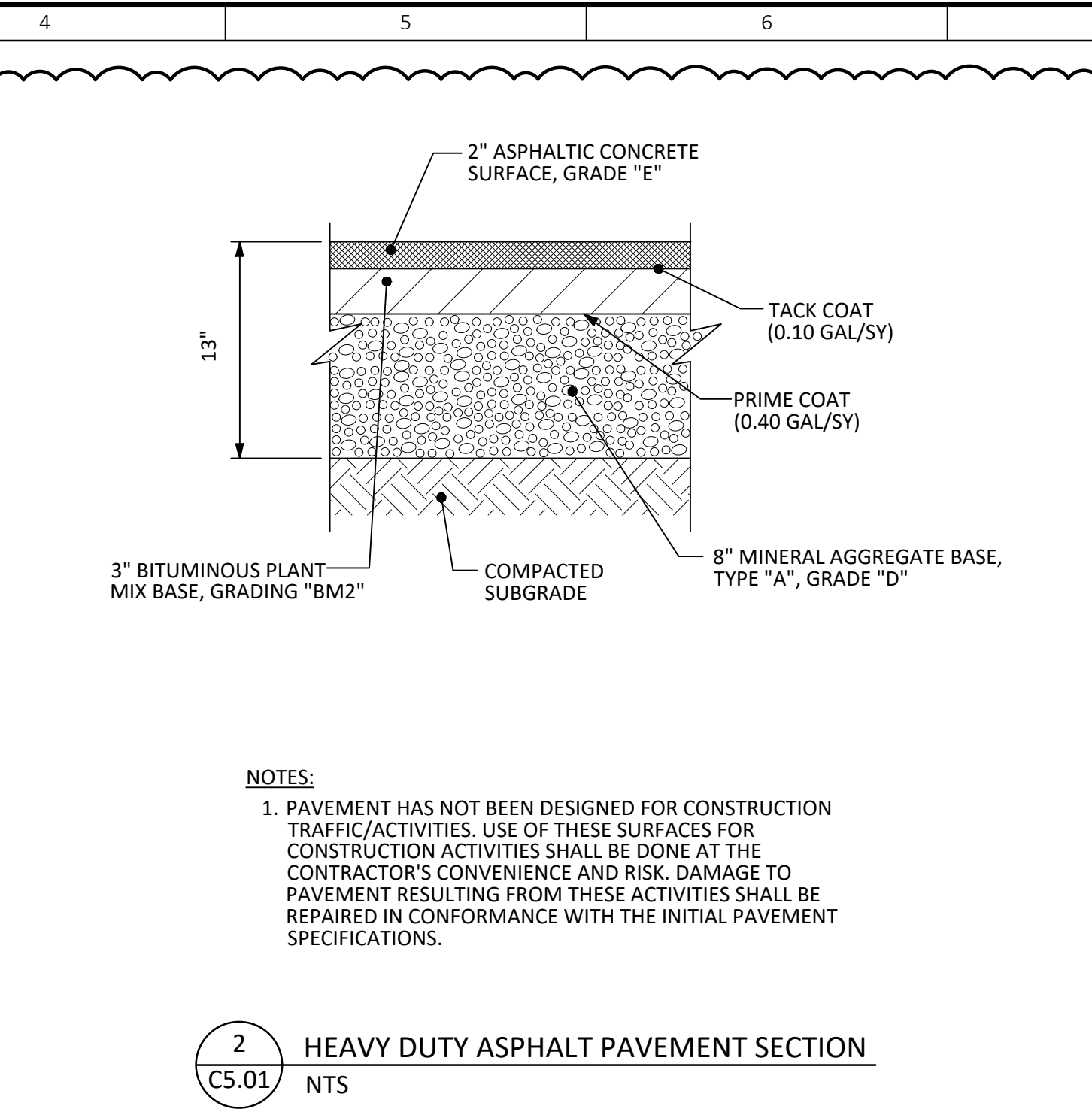
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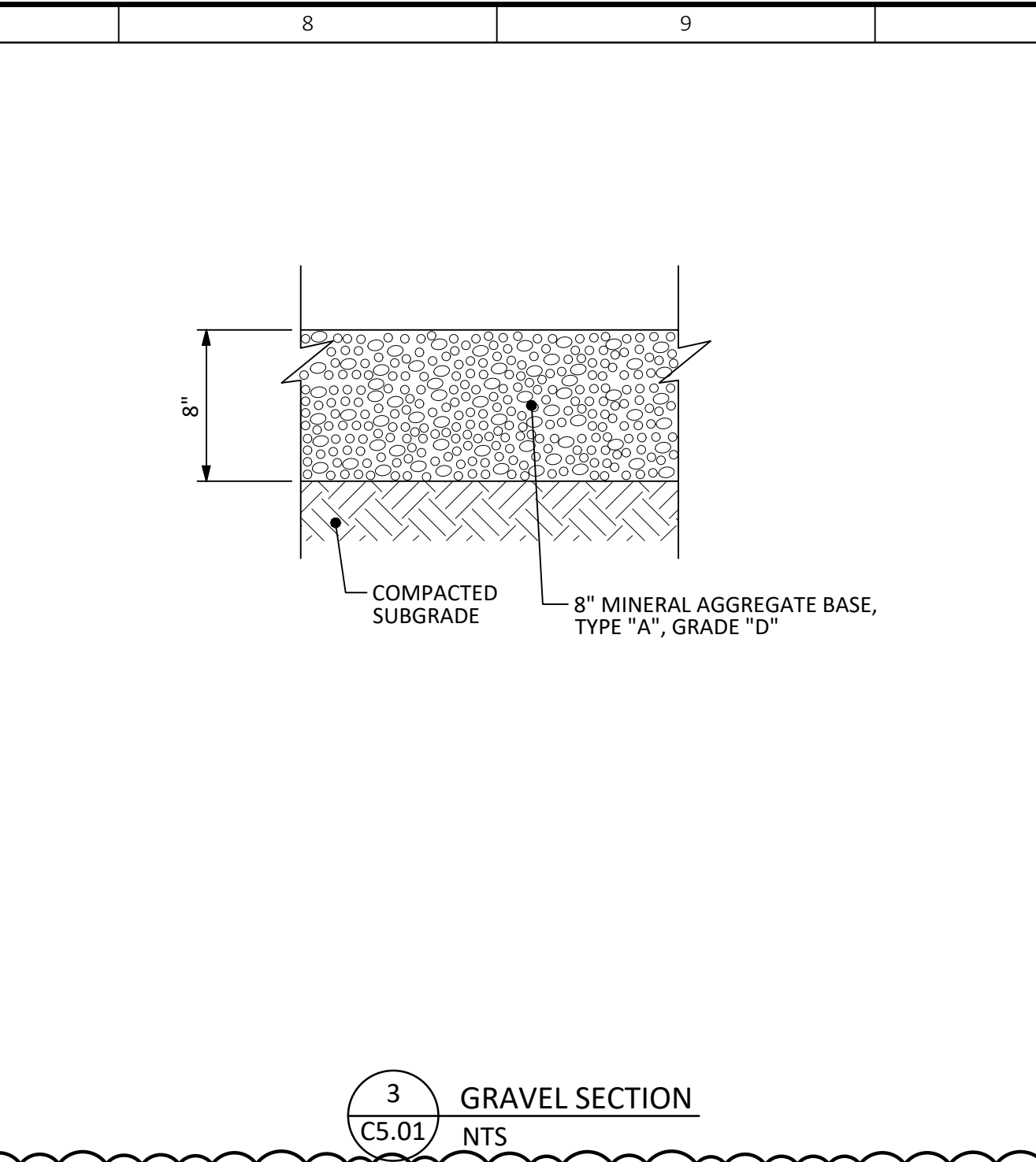
NOTES:
 1. PAVEMENT HAS NOT BEEN DESIGNED FOR CONSTRUCTION TRAFFIC/ACTIVITIES. USE OF THESE SURFACES FOR CONSTRUCTION ACTIVITIES SHALL BE DONE AT THE CONTRACTOR'S CONVENIENCE AND RISK. DAMAGE TO PAVEMENT RESULTING FROM THESE ACTIVITIES SHALL BE REPAIRED IN CONFORMANCE WITH THE INITIAL PAVEMENT SPECIFICATIONS.

1 ASPHALT PAVEMENT SECTION
 C5.01 NTS

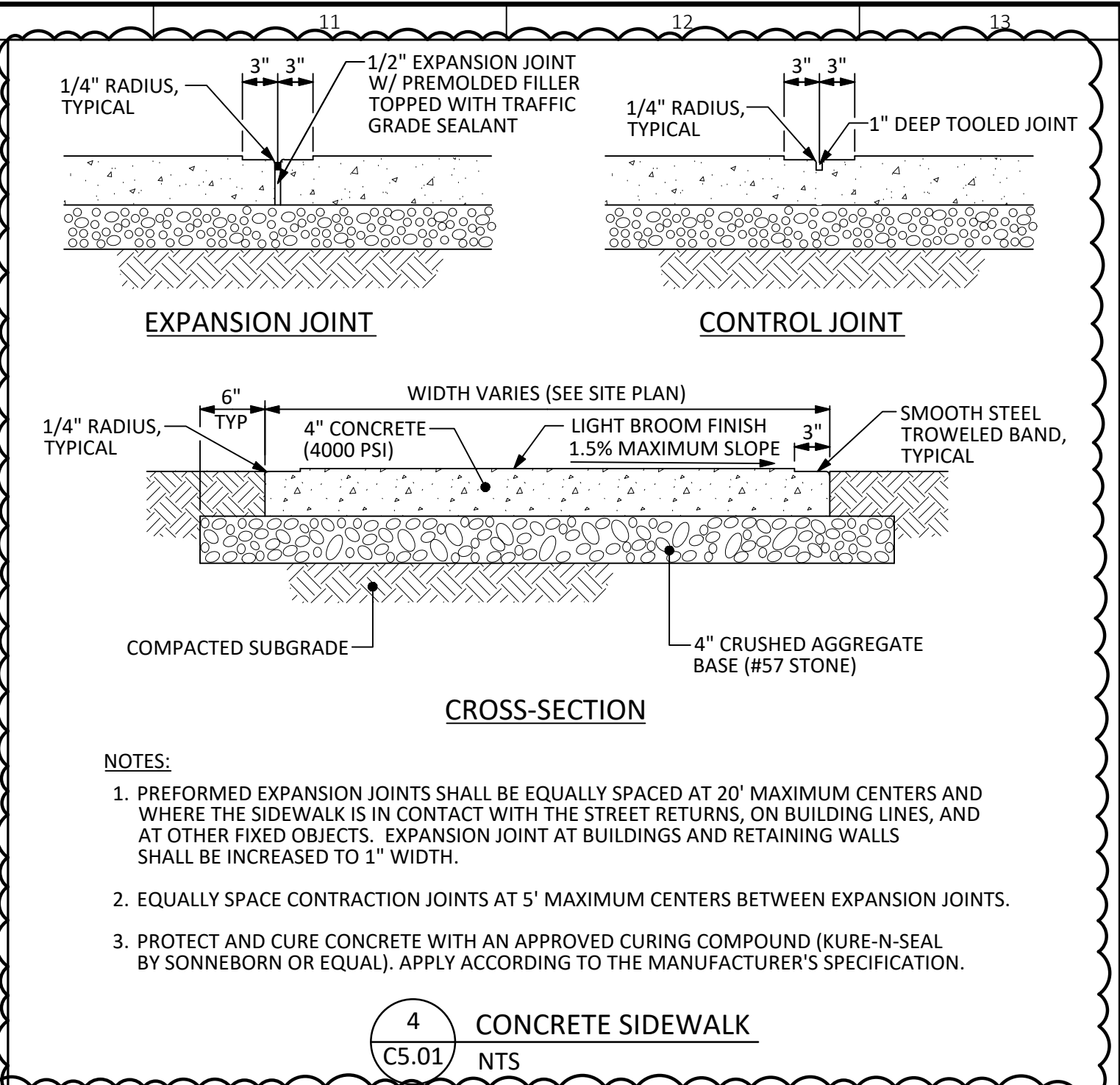


NOTES:
 1. PAVEMENT HAS NOT BEEN DESIGNED FOR CONSTRUCTION TRAFFIC/ACTIVITIES. USE OF THESE SURFACES FOR CONSTRUCTION ACTIVITIES SHALL BE DONE AT THE CONTRACTOR'S CONVENIENCE AND RISK. DAMAGE TO PAVEMENT RESULTING FROM THESE ACTIVITIES SHALL BE REPAIRED IN CONFORMANCE WITH THE INITIAL PAVEMENT SPECIFICATIONS.

2 HEAVY DUTY ASPHALT PAVEMENT SECTION
 C5.01 NTS

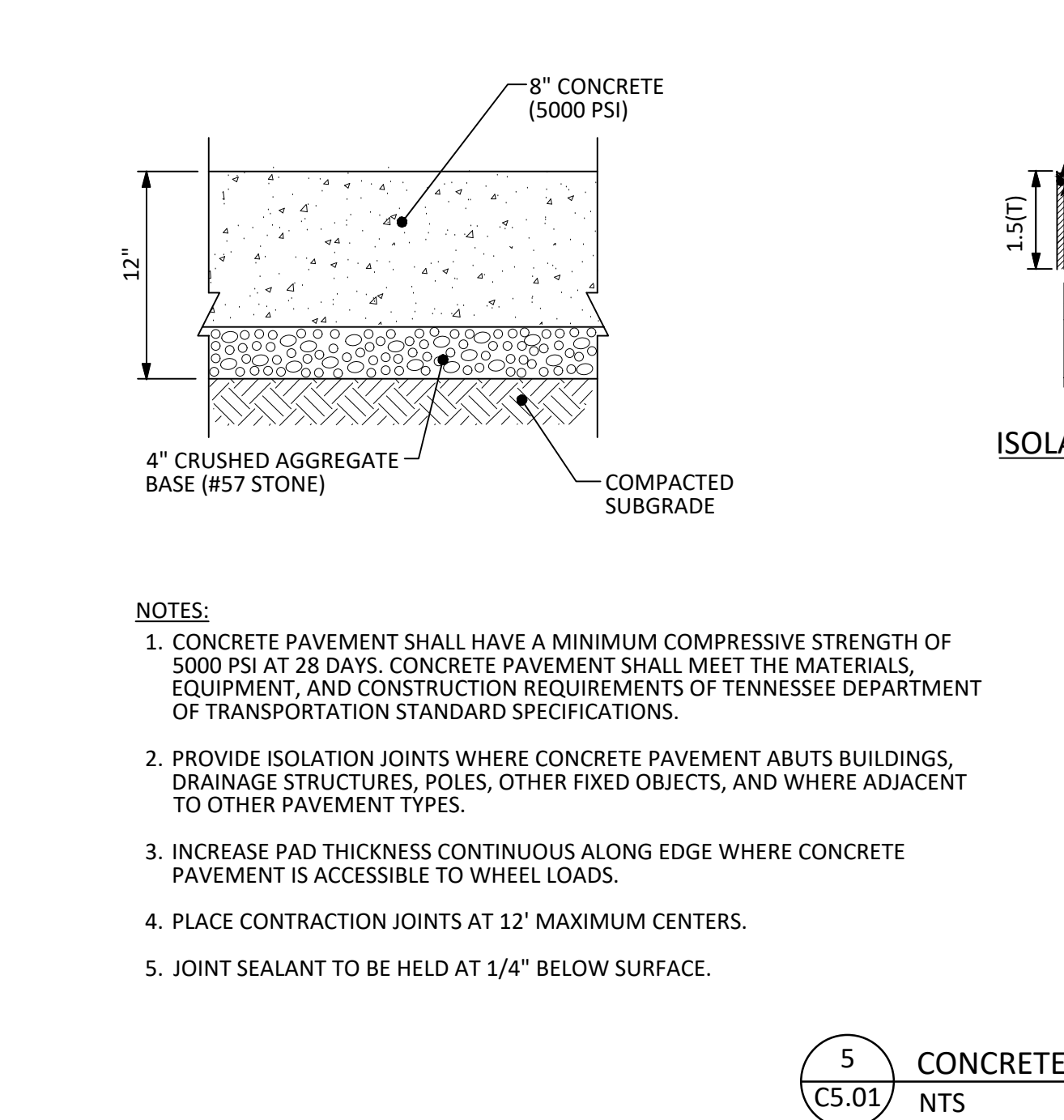


3 GRAVEL SECTION
 C5.01 NTS



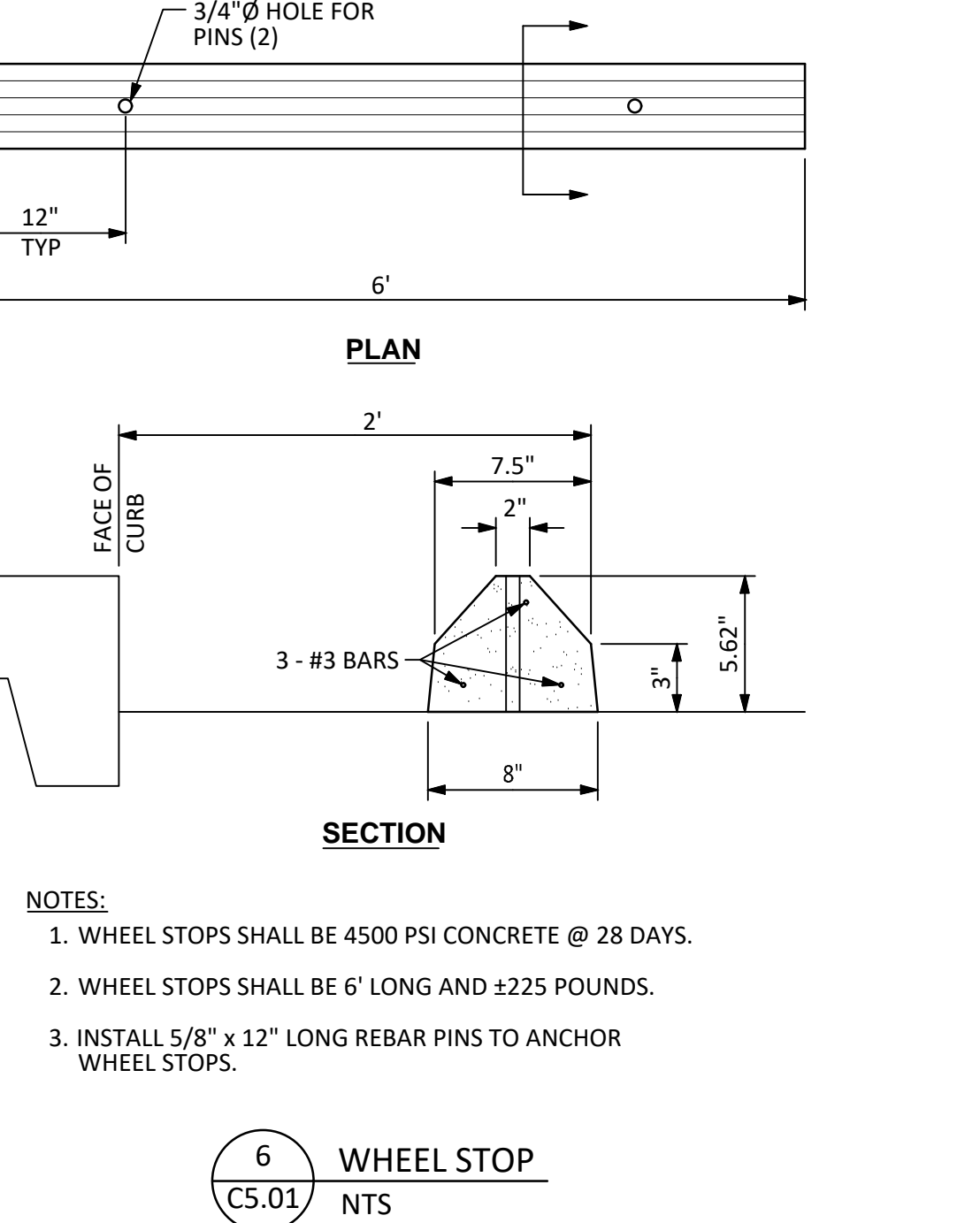
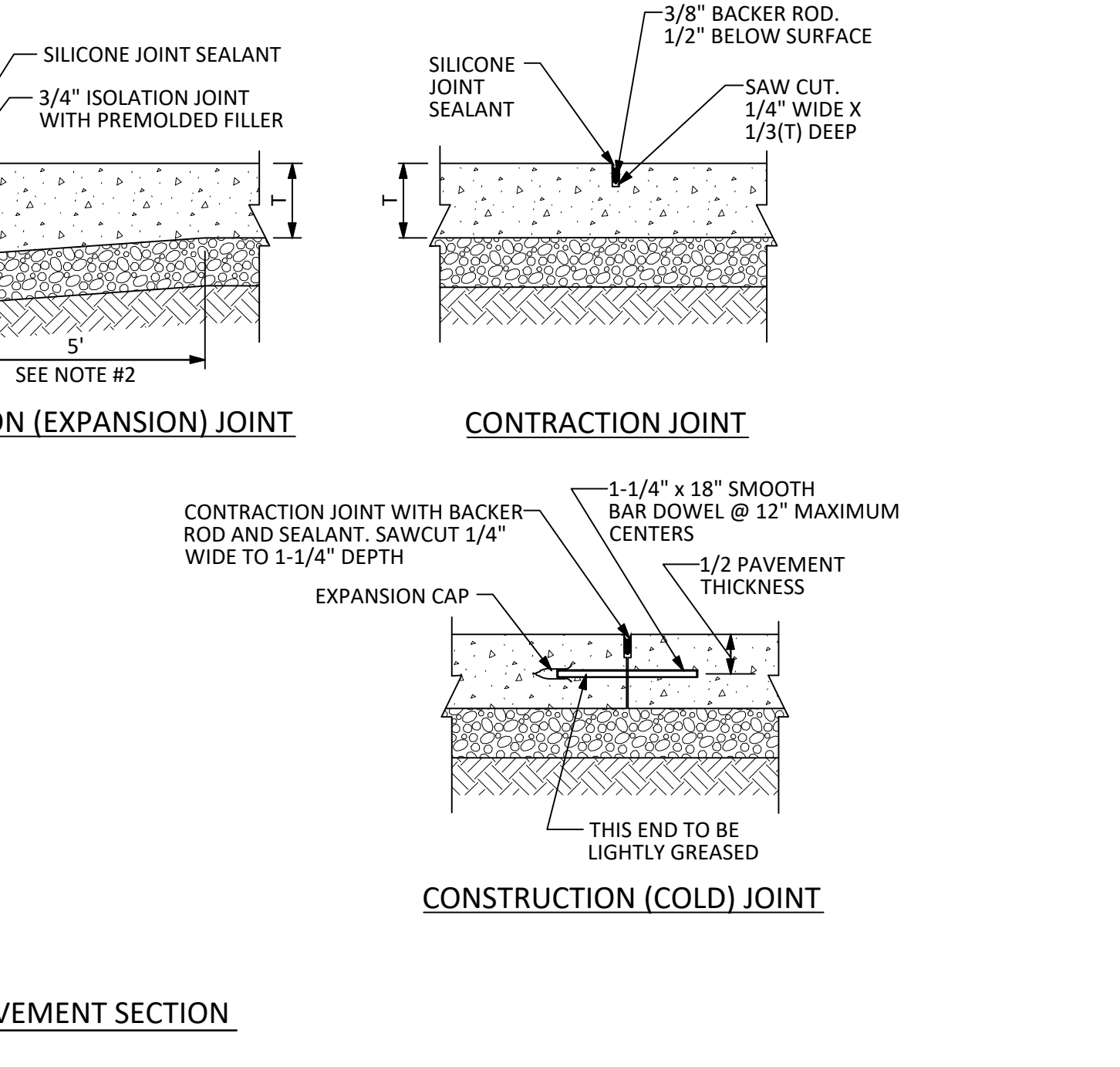
NOTES:
 1. PREFORMED EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 20' MAXIMUM CENTERS AND WHERE THE SIDEWALK IS IN CONTACT WITH THE STREET RETURNS, ON BUILDING LINES, AND AT OTHER FIXED OBJECTS. EXPANSION JOINT AT BUILDINGS AND RETAINING WALLS SHALL BE INCREASED TO 1" WIDTH.
 2. EQUALLY SPACE CONTRACTION JOINTS AT 5' MAXIMUM CENTERS BETWEEN EXPANSION JOINTS.
 3. PROTECT AND CURE CONCRETE WITH AN APPROVED CURING COMPOUND (KURE-N-SEAL BY SONNEBORN OR EQUAL). APPLY ACCORDING TO THE MANUFACTURER'S SPECIFICATION.

4 CONCRETE SIDEWALK
 C5.01 NTS



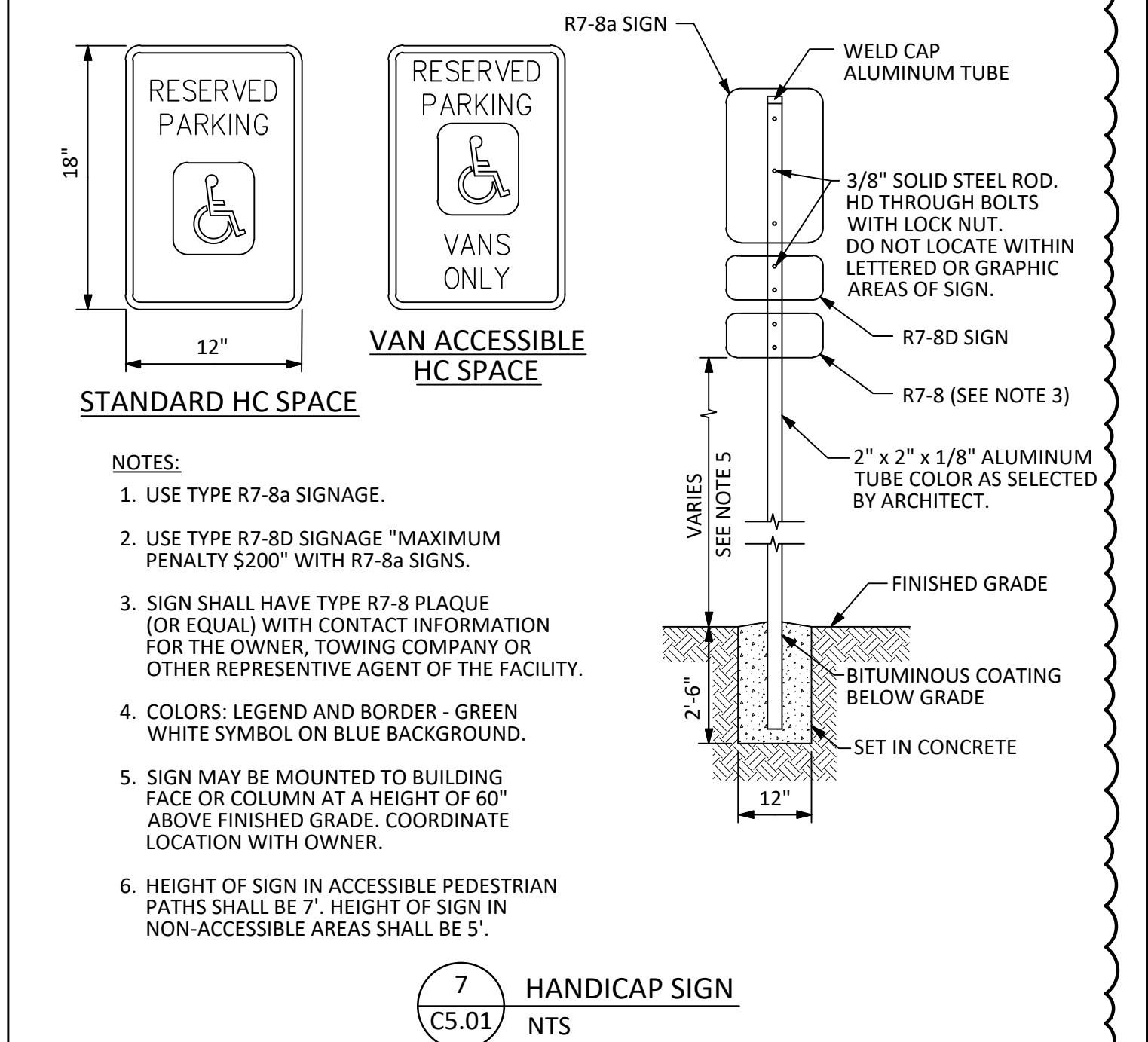
NOTES:
 1. CONCRETE PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. CONCRETE PAVEMENT SHALL MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 2. PROVIDE ISOLATION JOINTS WHERE CONCRETE PAVEMENT ABUTS BUILDINGS, DRAINAGE STRUCTURES, POLES, OTHER FIXED OBJECTS, AND WHERE ADJACENT TO OTHER PAVEMENT TYPES.
 3. INCREASE PAD THICKNESS CONTINUOUS ALONG EDGE WHERE CONCRETE PAVEMENT IS ACCESSIBLE TO WHEEL LOADS.
 4. PLACE CONTRACTION JOINTS AT 12' MAXIMUM CENTERS.
 5. JOINT SEALANT TO BE HELD AT 1/4" BELOW SURFACE.

5 CONCRETE PAVEMENT SECTION
 C5.01 NTS



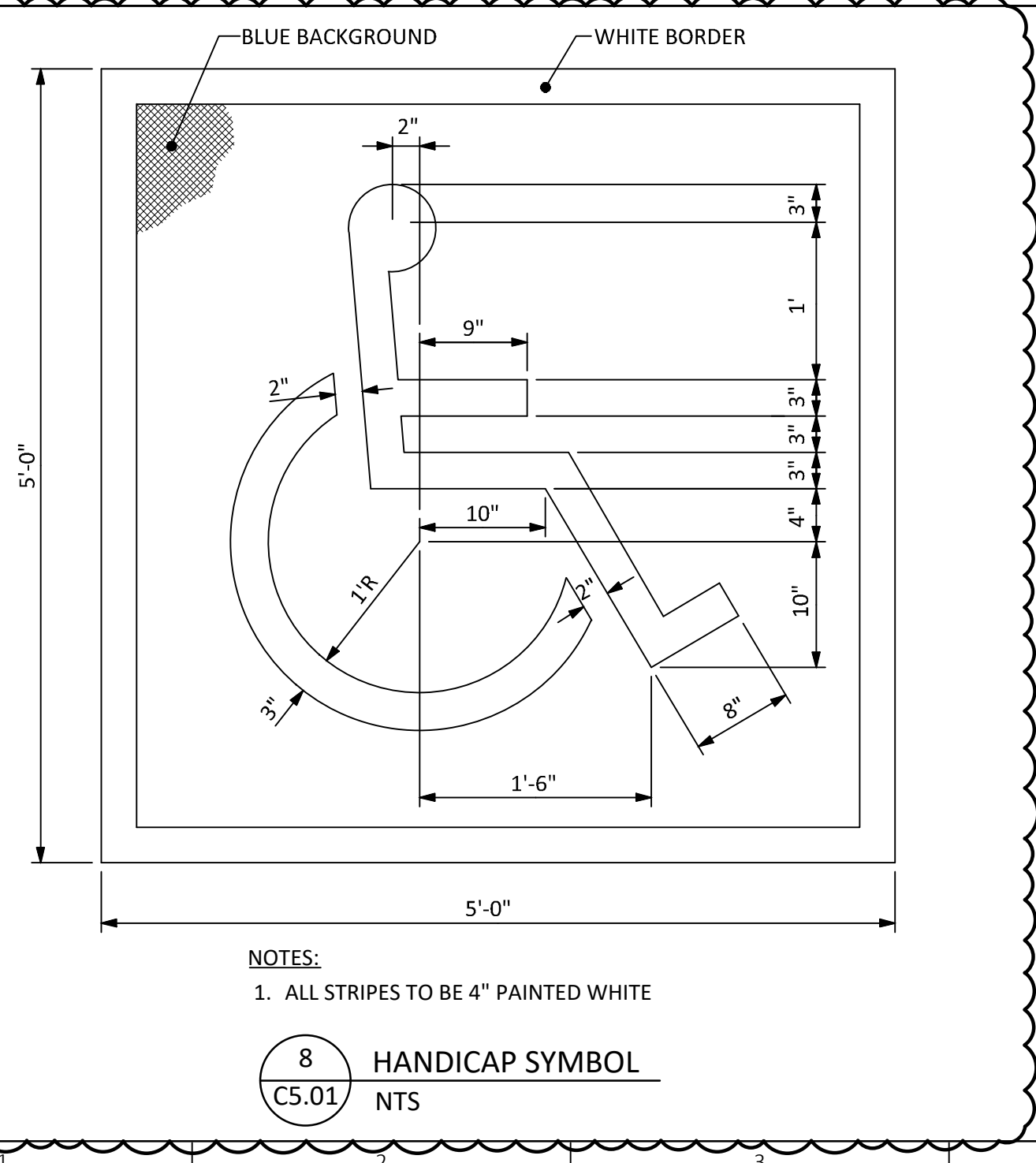
NOTES:
 1. WHEEL STOPS SHALL BE 4500 PSI CONCRETE @ 28 DAYS.
 2. WHEEL STOPS SHALL BE 6' LONG AND ±225 POUNDS.
 3. INSTALL 5/8" x 12" LONG REBAR PINS TO ANCHOR WHEEL STOPS.

6 WHEEL STOP
 C5.01 NTS



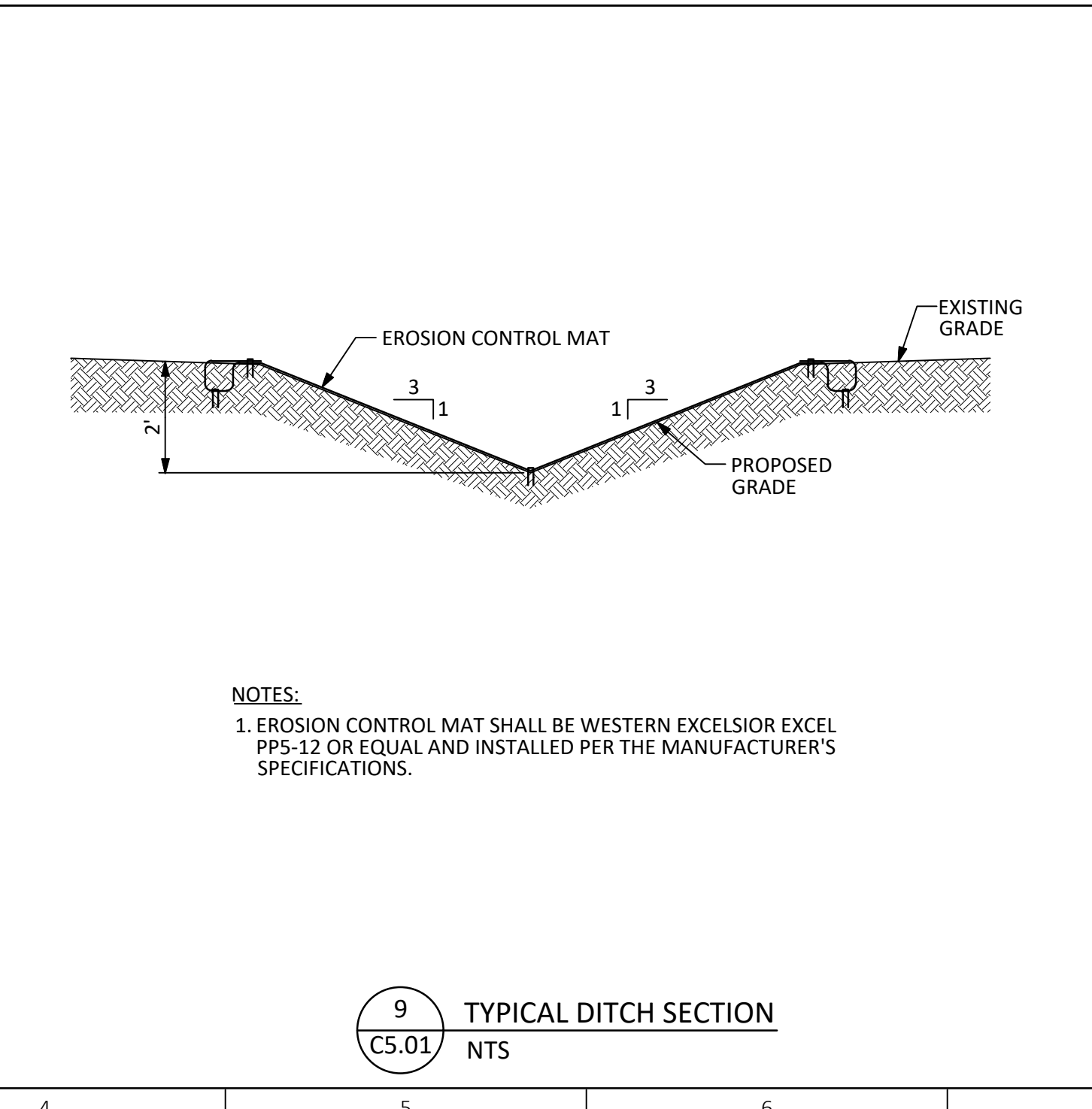
NOTES:
 1. USE TYPE R7-8a SIGNAGE.
 2. USE TYPE R7-8D SIGNAGE "MAXIMUM PENALTY \$200" WITH R7-8a SIGNS.
 3. SIGN SHALL HAVE TYPE R7-8 PLAQUE (OR EQUAL) WITH CONTACT INFORMATION FOR THE OWNER, TOWING COMPANY OR OTHER REPRESENTATIVE AGENT OF THE FACILITY.
 4. COLORS: LEGEND AND BORDER - GREEN WHITE SYMBOL ON BLUE BACKGROUND.
 5. SIGN MAY BE MOUNTED TO BUILDING FACE OR COLUMN AT A HEIGHT OF 60" ABOVE FINISHED GRADE. COORDINATE LOCATION WITH OWNER.
 6. HEIGHT OF SIGN IN ACCESSIBLE PEDESTRIAN PATHS SHALL BE 7'. HEIGHT OF SIGN IN NON-ACCESSIBLE AREAS SHALL BE 5'.

7 HANDICAP SIGN
 C5.01 NTS



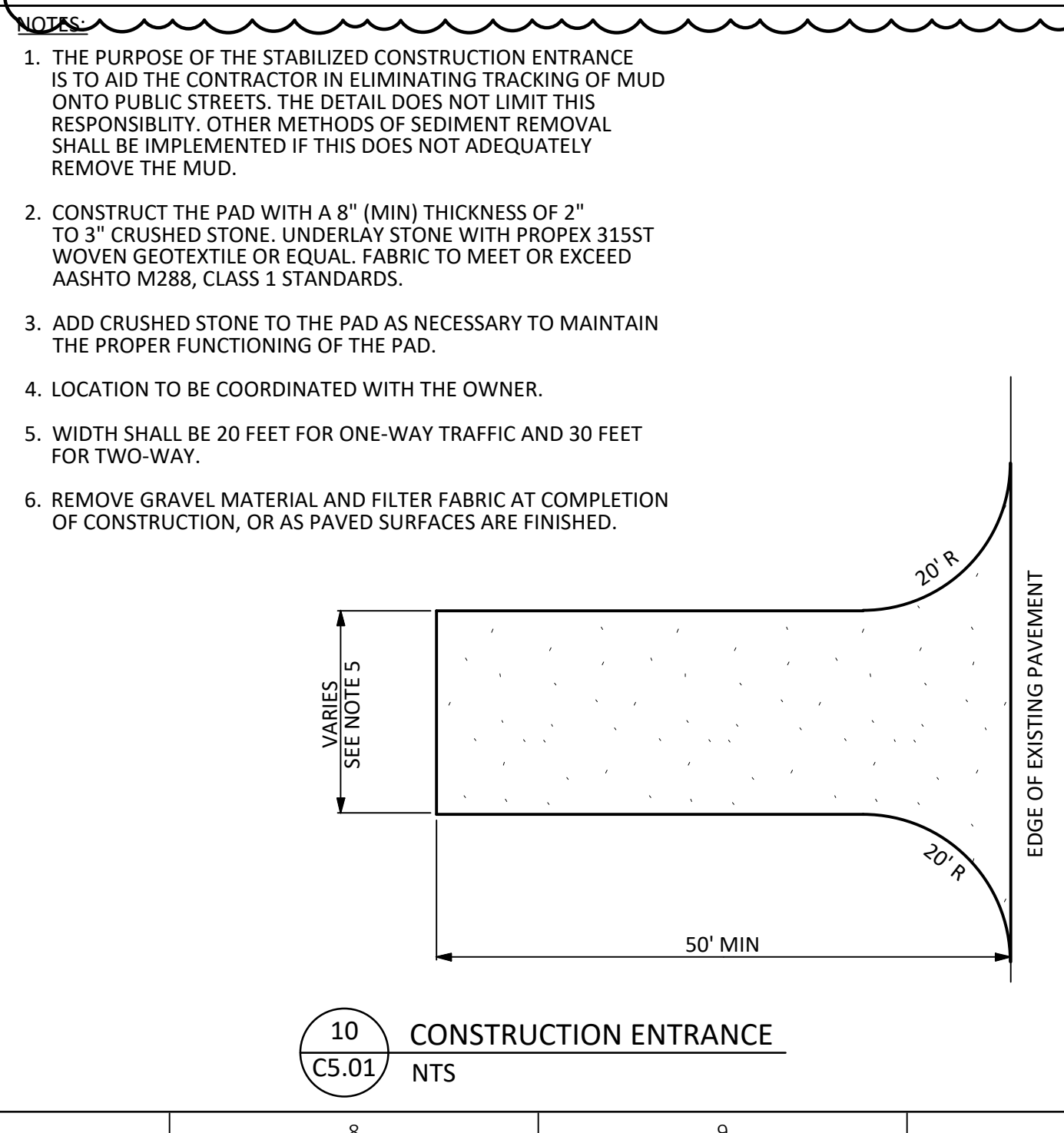
NOTES:
 1. ALL STRIPES TO BE 4" PAINTED WHITE

8 HANDICAP SYMBOL
 C5.01 NTS



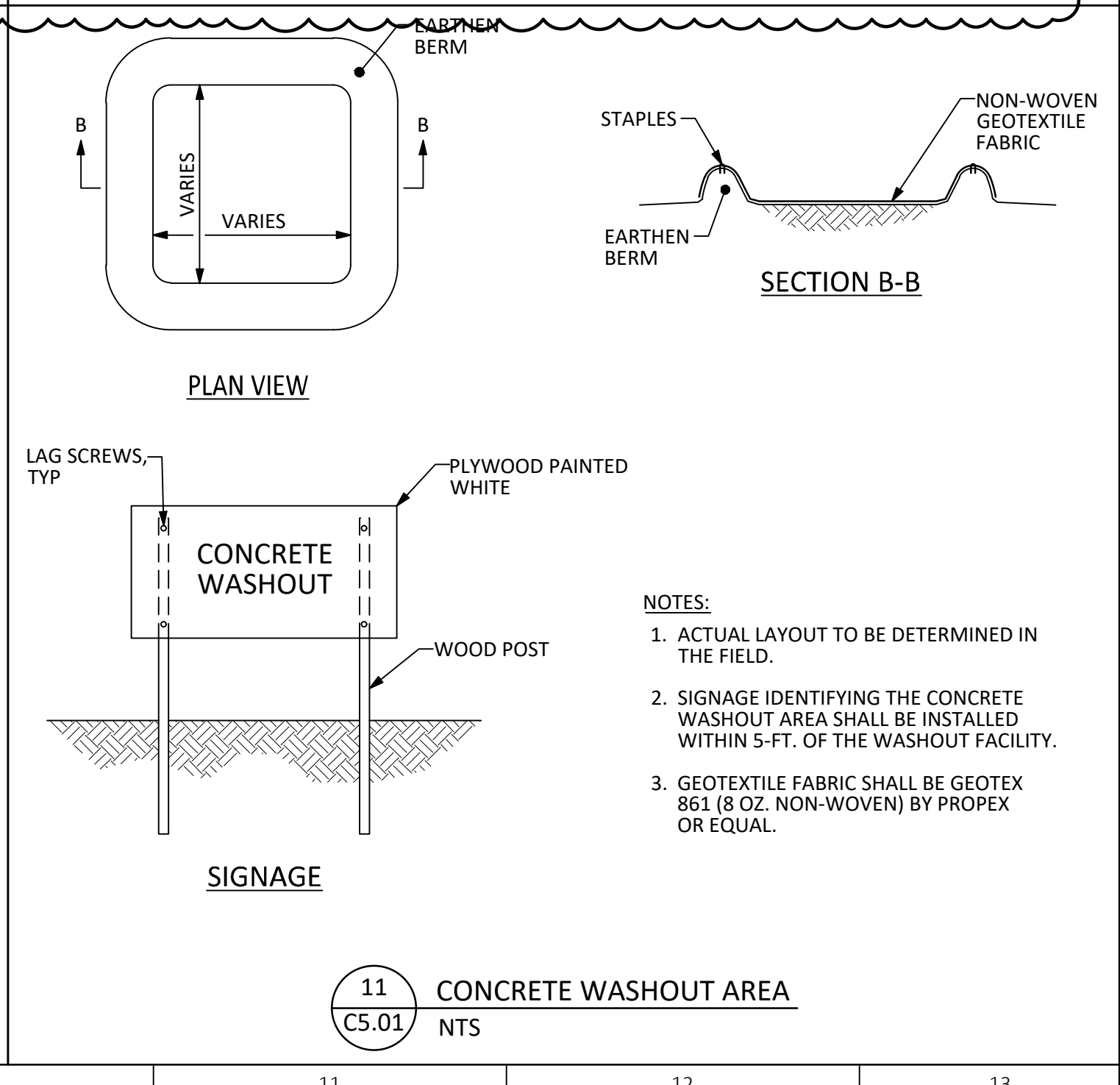
NOTES:
 1. EROSION CONTROL MAT SHALL BE WESTERN EXCELSIOR EXCEL PP5-12 OR EQUAL AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

9 TYPICAL DITCH SECTION
 C5.01 NTS



NOTES:
 1. THE PURPOSE OF THE STABILIZED CONSTRUCTION ENTRANCE IS TO AID THE CONTRACTOR IN ELIMINATING TRACKING OF MUD ONTO PUBLIC STREETS. THE DETAIL DOES NOT LIMIT THIS RESPONSIBILITY. OTHER METHODS OF SEDIMENT REMOVAL SHALL BE IMPLEMENTED IF THIS DOES NOT ADEQUATELY REMOVE THE MUD.
 2. CONSTRUCT THE PAD WITH A 8" (MIN) THICKNESS OF 2" TO 3" CRUSHED STONE. UNDERLAY STONE WITH PROPEX 315ST WOVEN GEOTEXTILE OR EQUAL. FABRIC TO MEET OR EXCEED AASHTO M288, CLASS 1 STANDARDS.
 3. ADD CRUSHED STONE TO THE PAD AS NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD.
 4. LOCATION TO BE COORDINATED WITH THE OWNER.
 5. WIDTH SHALL BE 20 FEET FOR ONE-WAY TRAFFIC AND 30 FEET FOR TWO-WAY.
 6. REMOVE GRAVEL MATERIAL AND FILTER FABRIC AT COMPLETION OF CONSTRUCTION, OR AS PAVED SURFACES ARE FINISHED.

10 CONSTRUCTION ENTRANCE
 C5.01 NTS



NOTES:
 1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
 2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5-FT. OF THE WASHOUT FACILITY.
 3. GEOTEXTILE FABRIC SHALL BE GEOTEX 861 (8 OZ. NON-WOVEN) BY PROPEX OR EQUAL.

11 CONCRETE WASHOUT AREA
 C5.01 NTS

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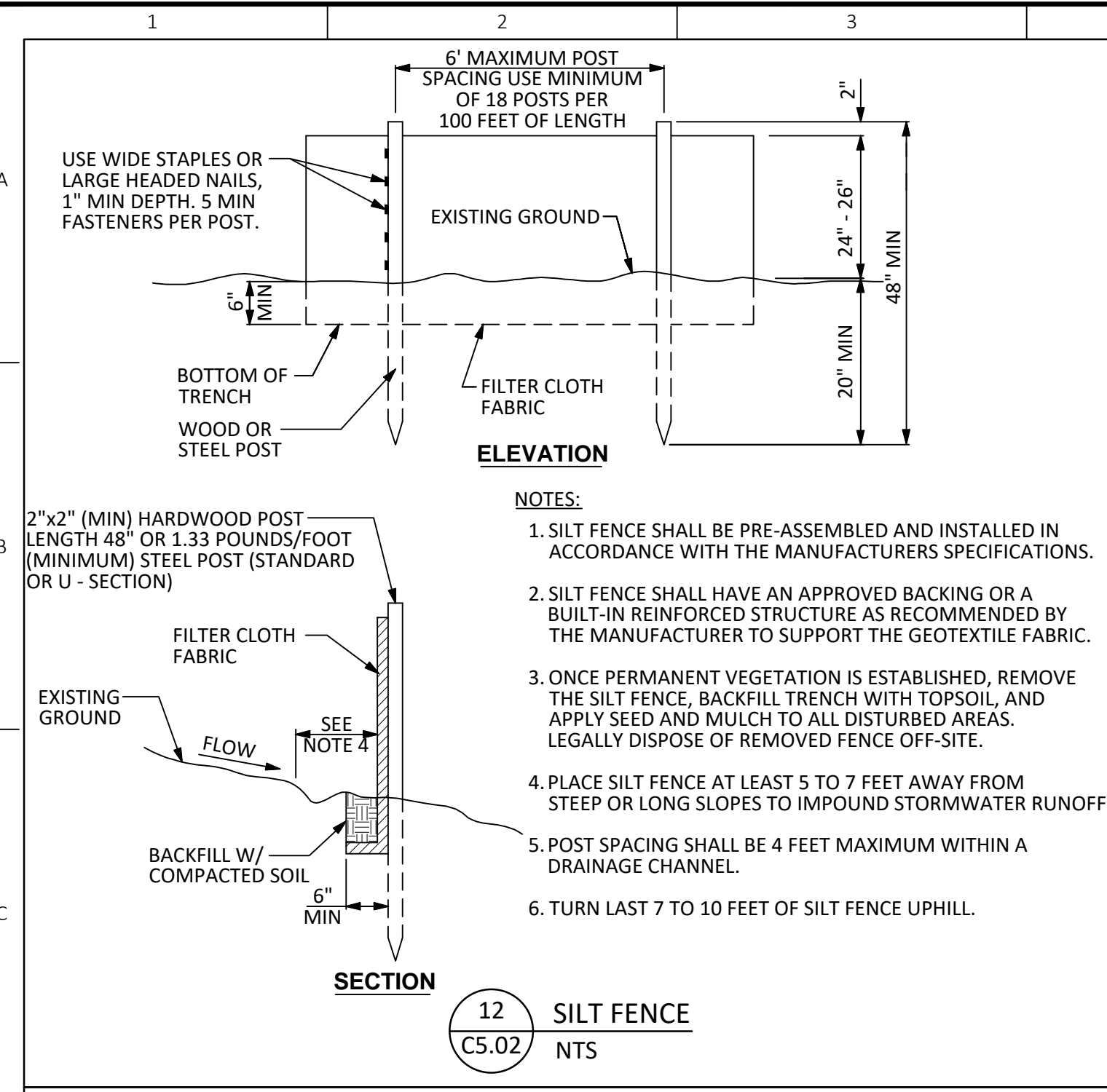
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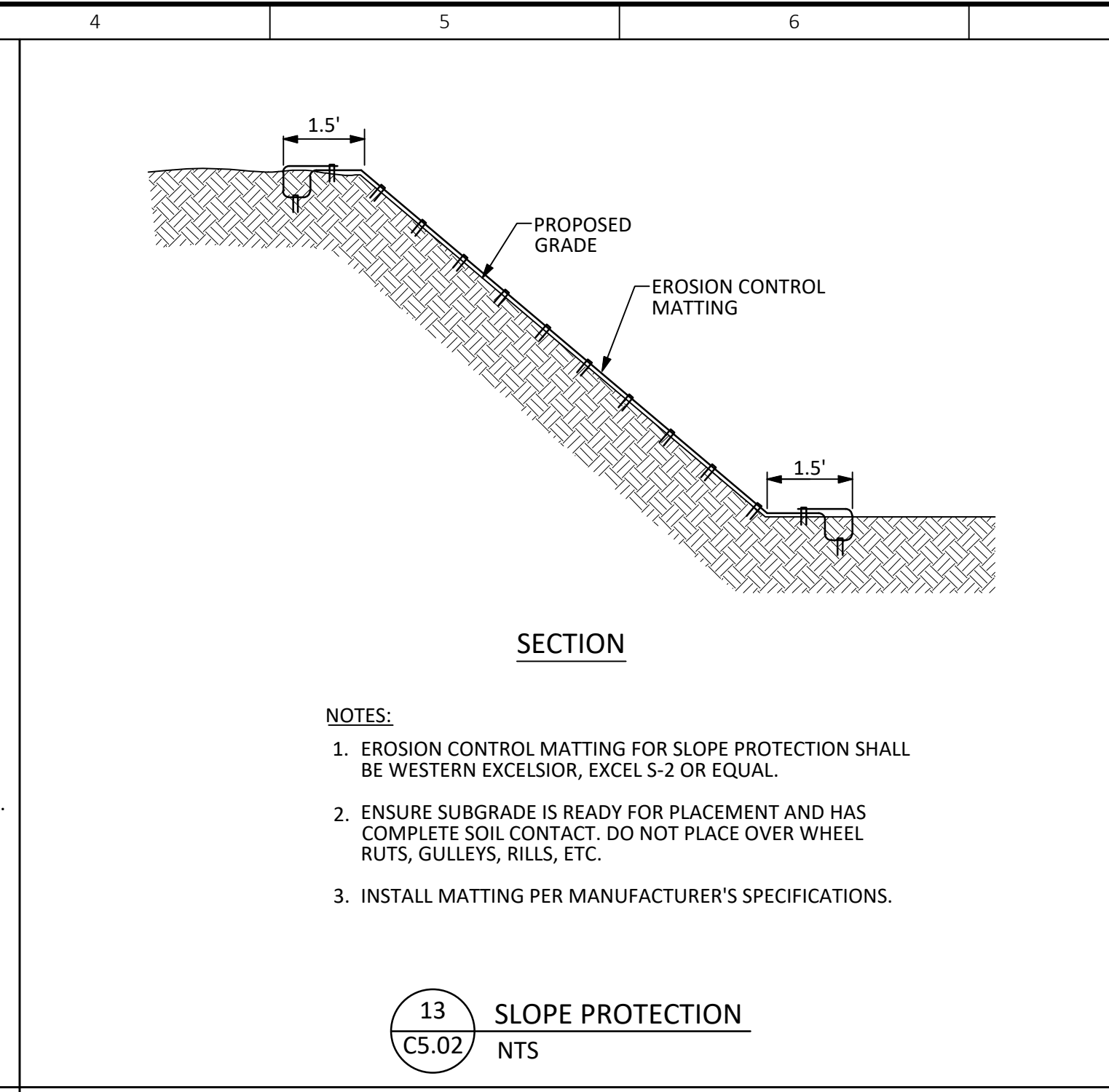
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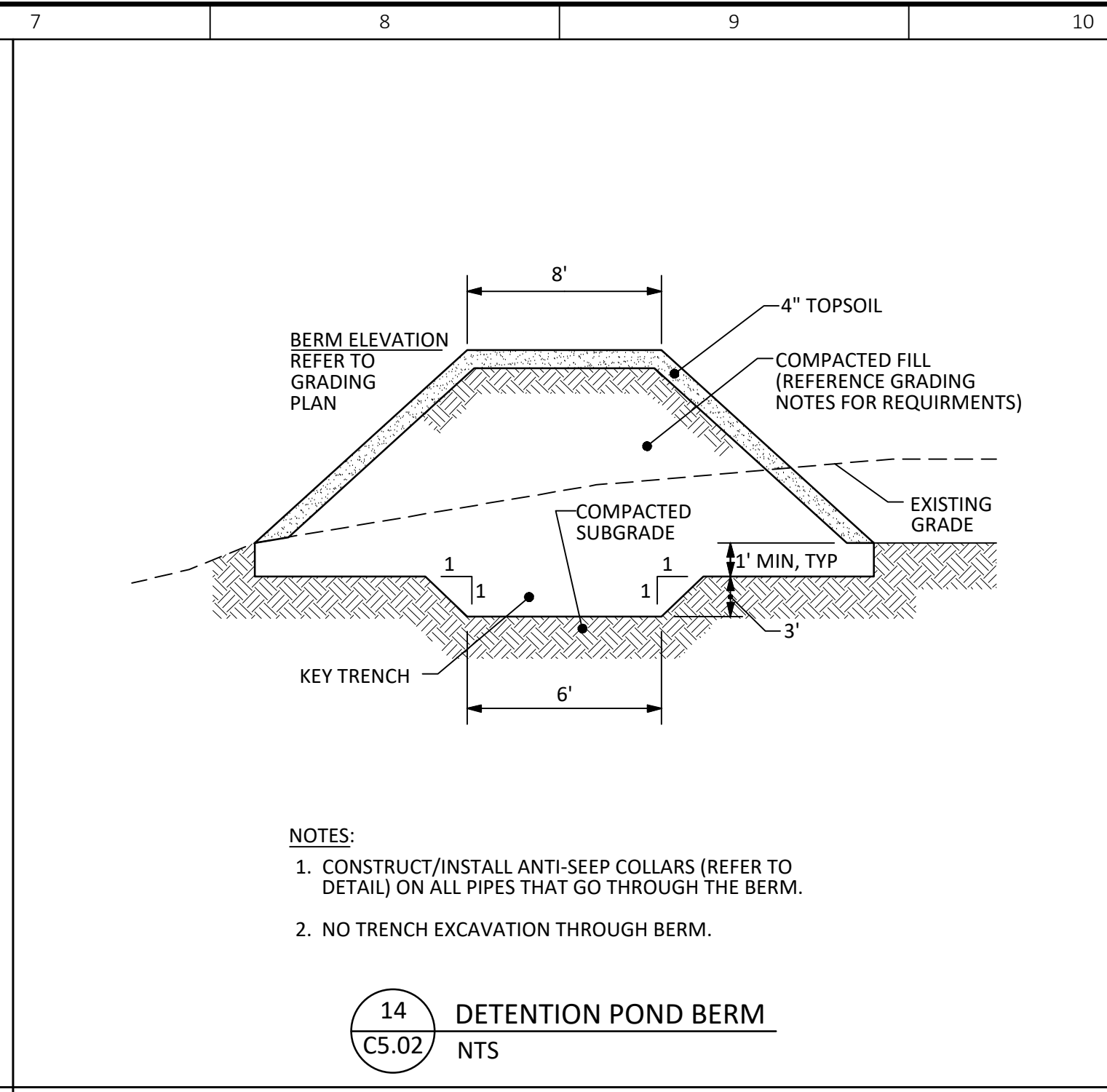
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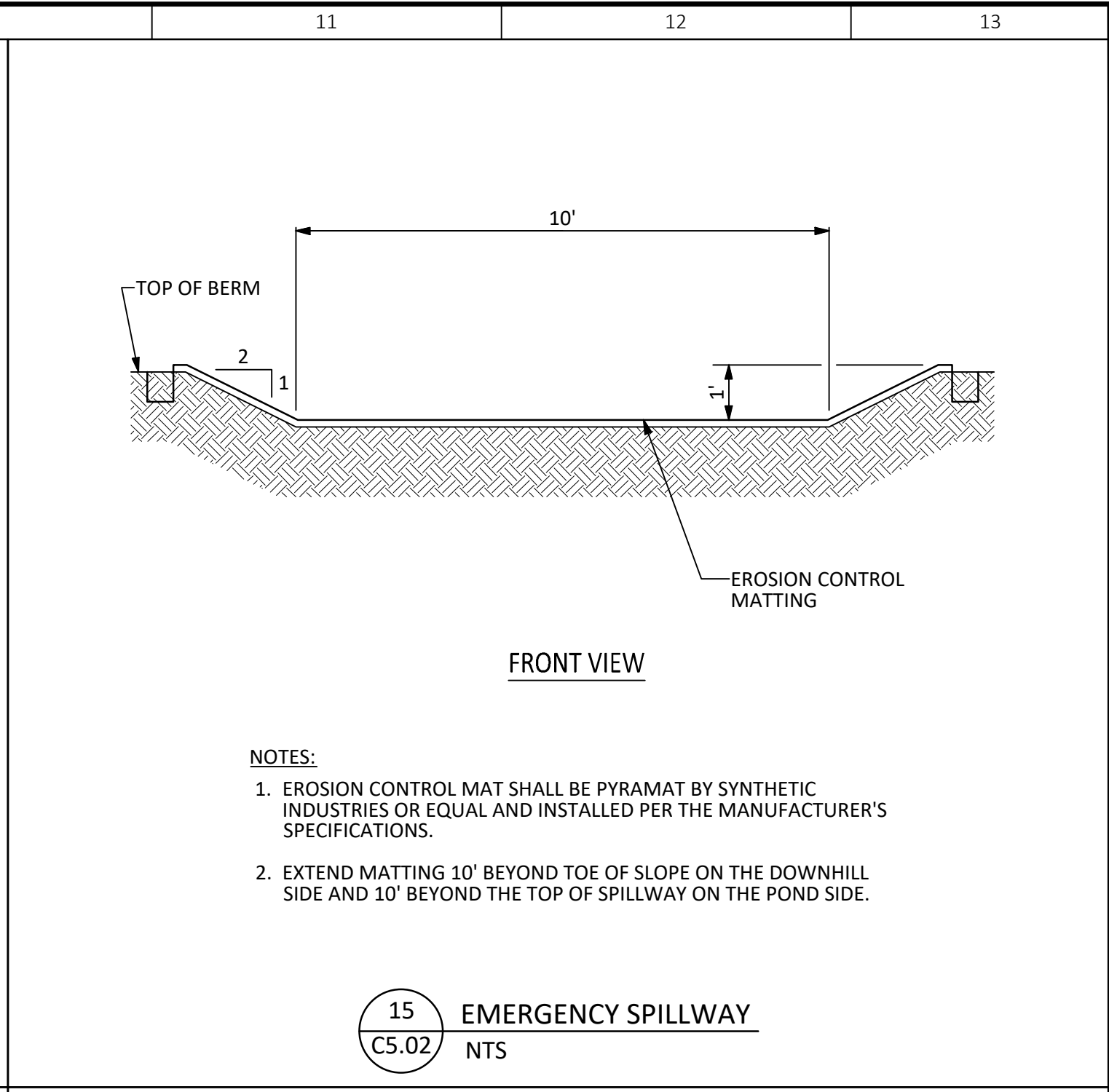
12 SILT FENCE
C5.02 NTS



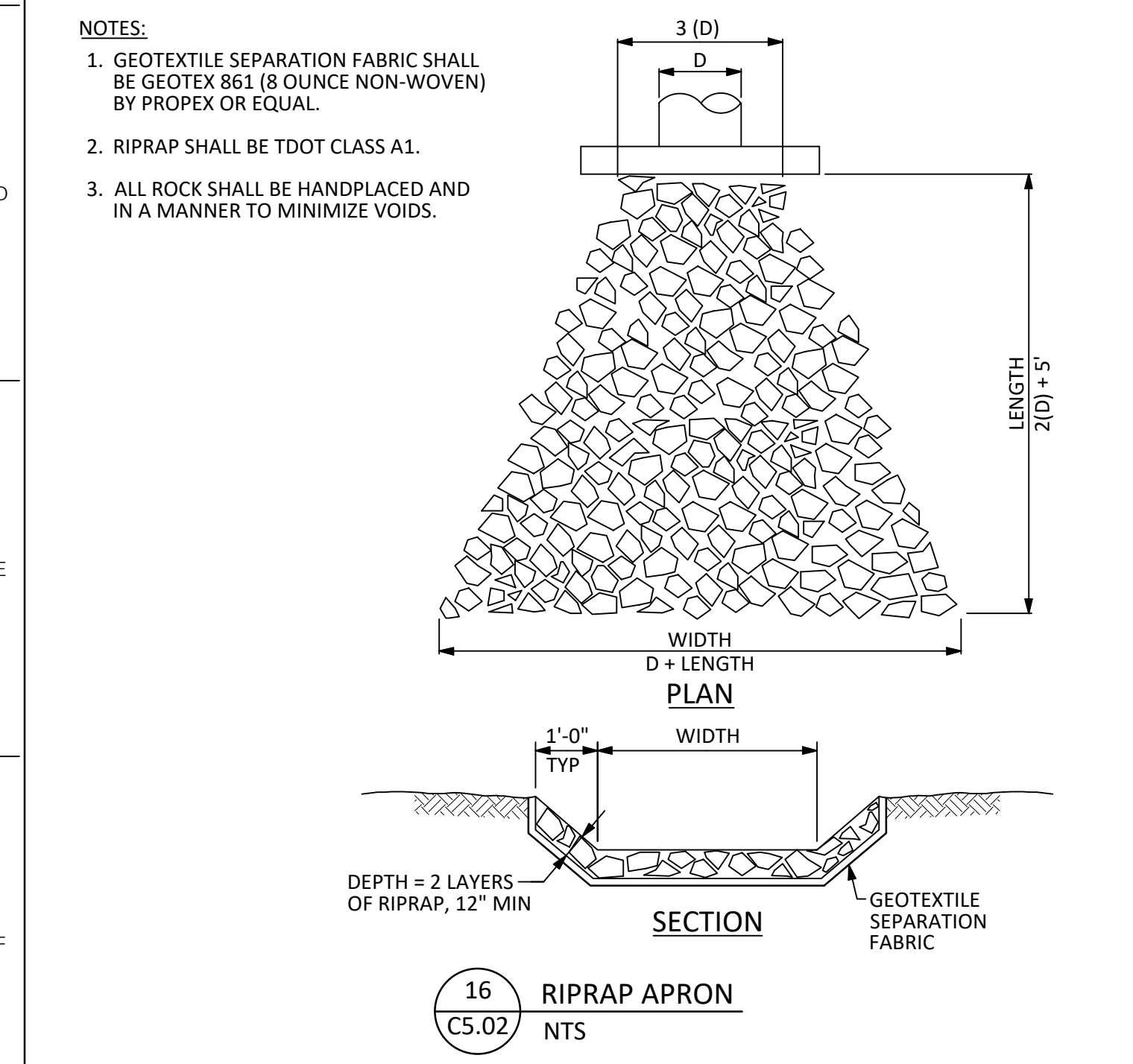
13 SLOPE PROTECTION
C5.02 NTS



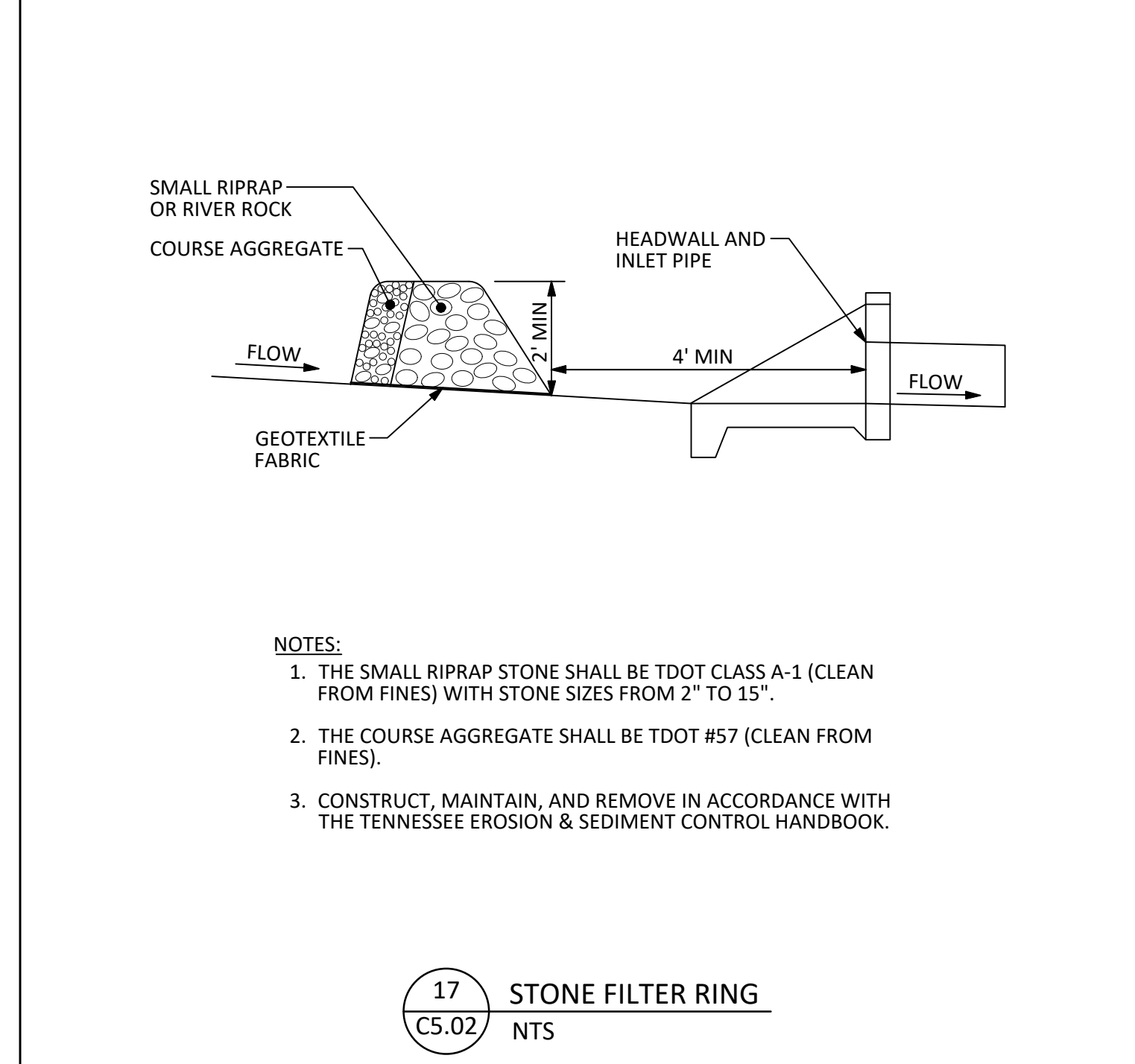
14 DETENTION POND BERM
C5.02 NTS



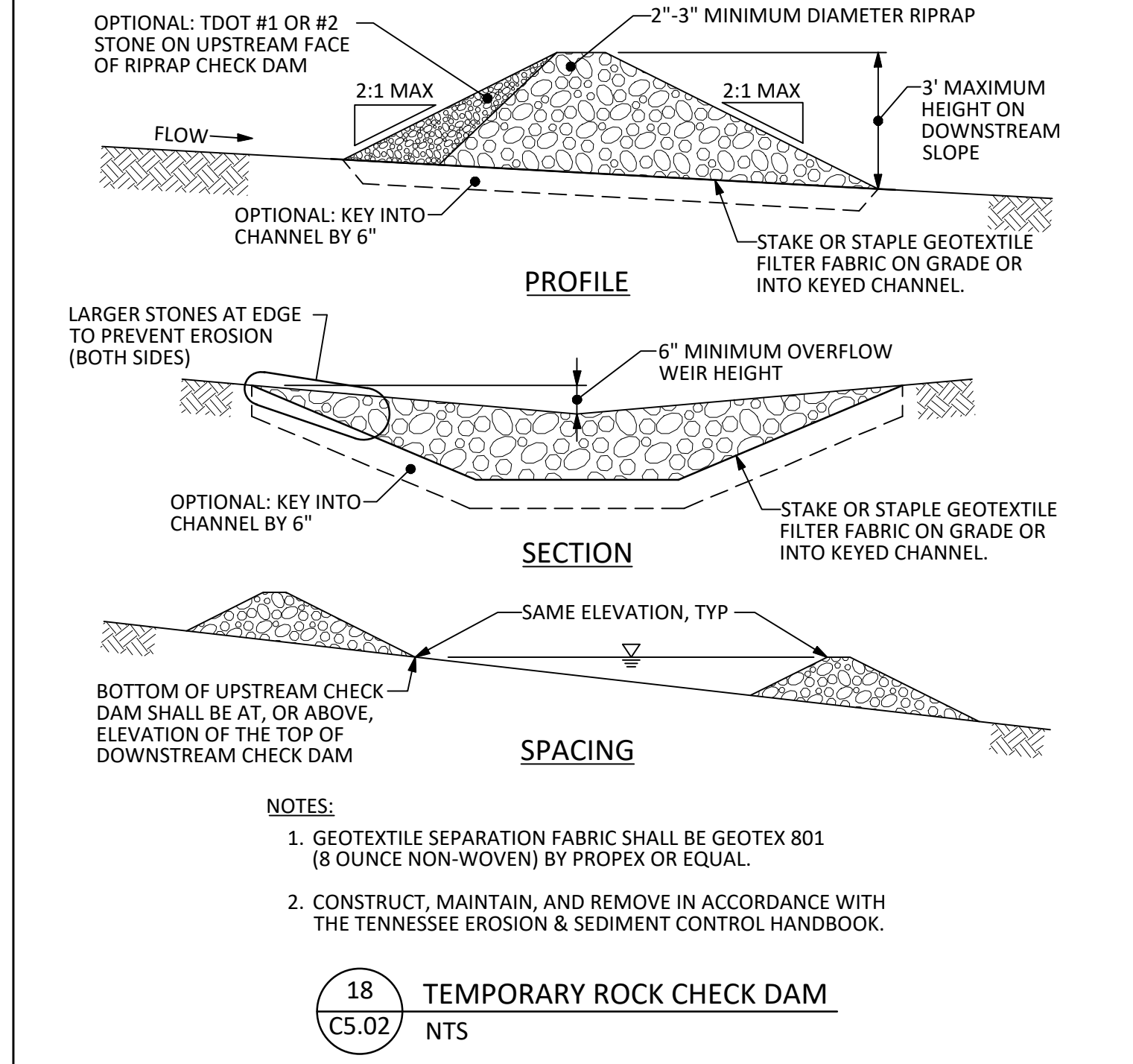
15 EMERGENCY SPILLWAY
C5.02 NTS



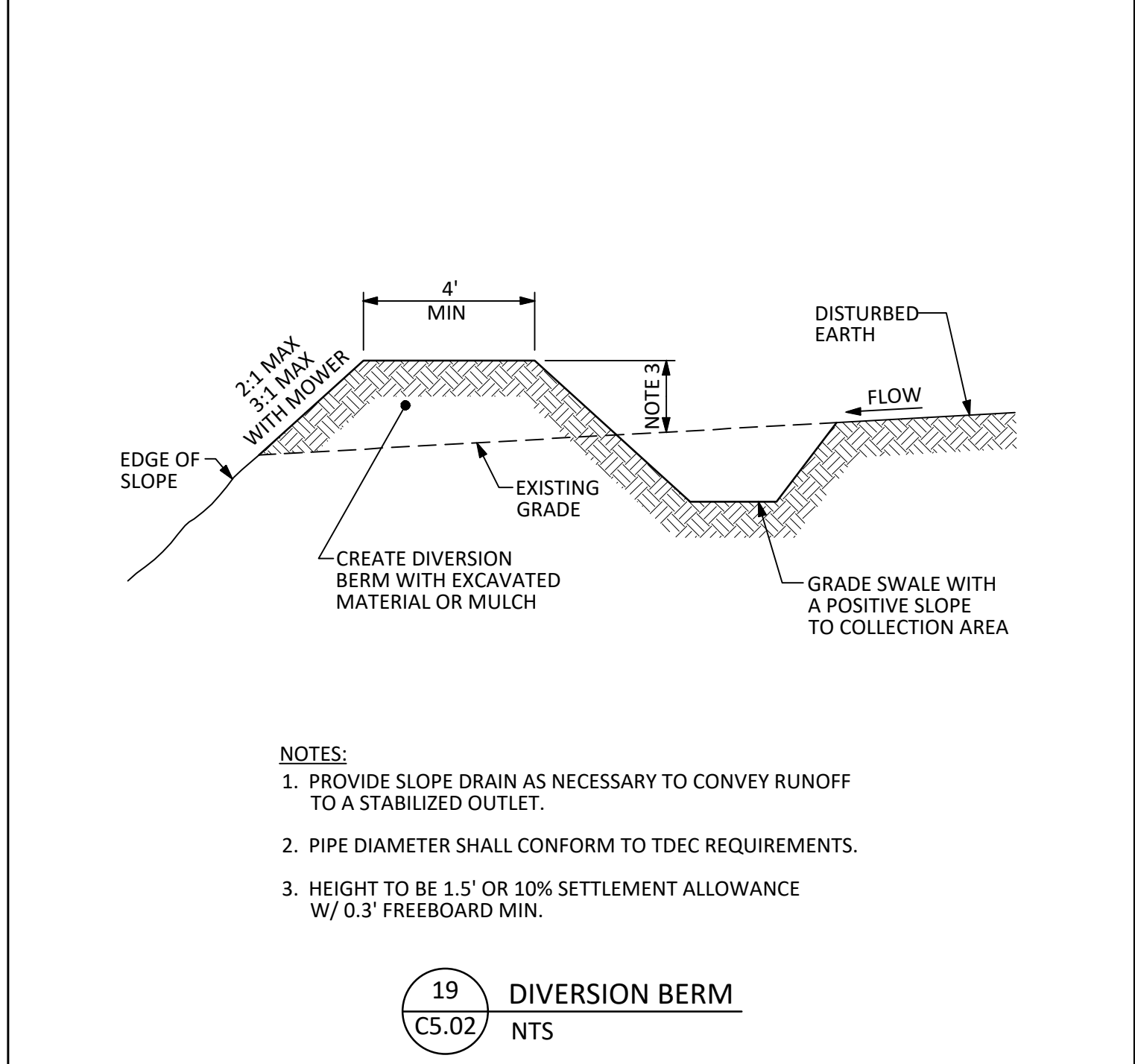
16 RIPRAP APRON
C5.02 NTS



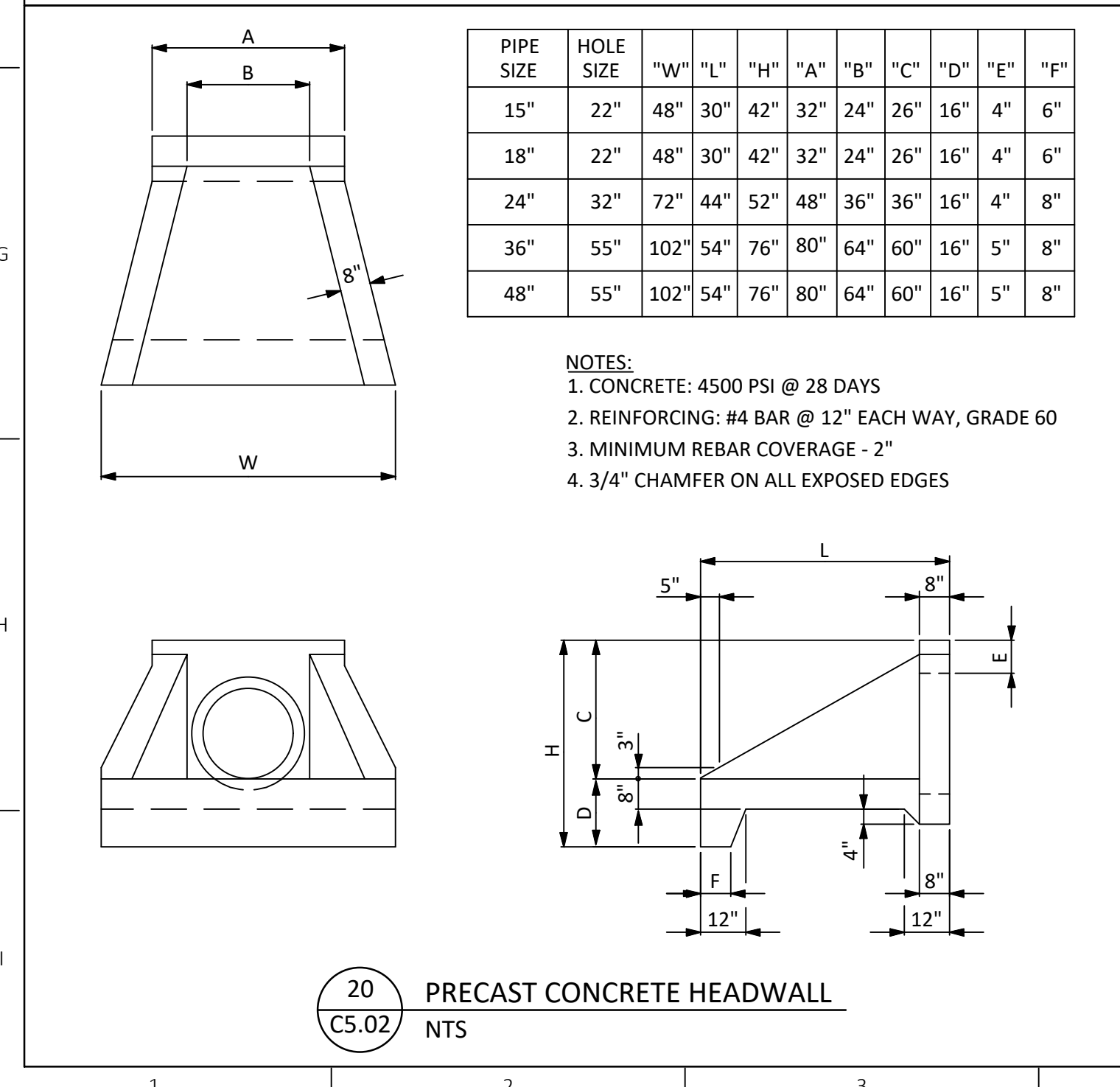
17 STONE FILTER RING
C5.02 NTS



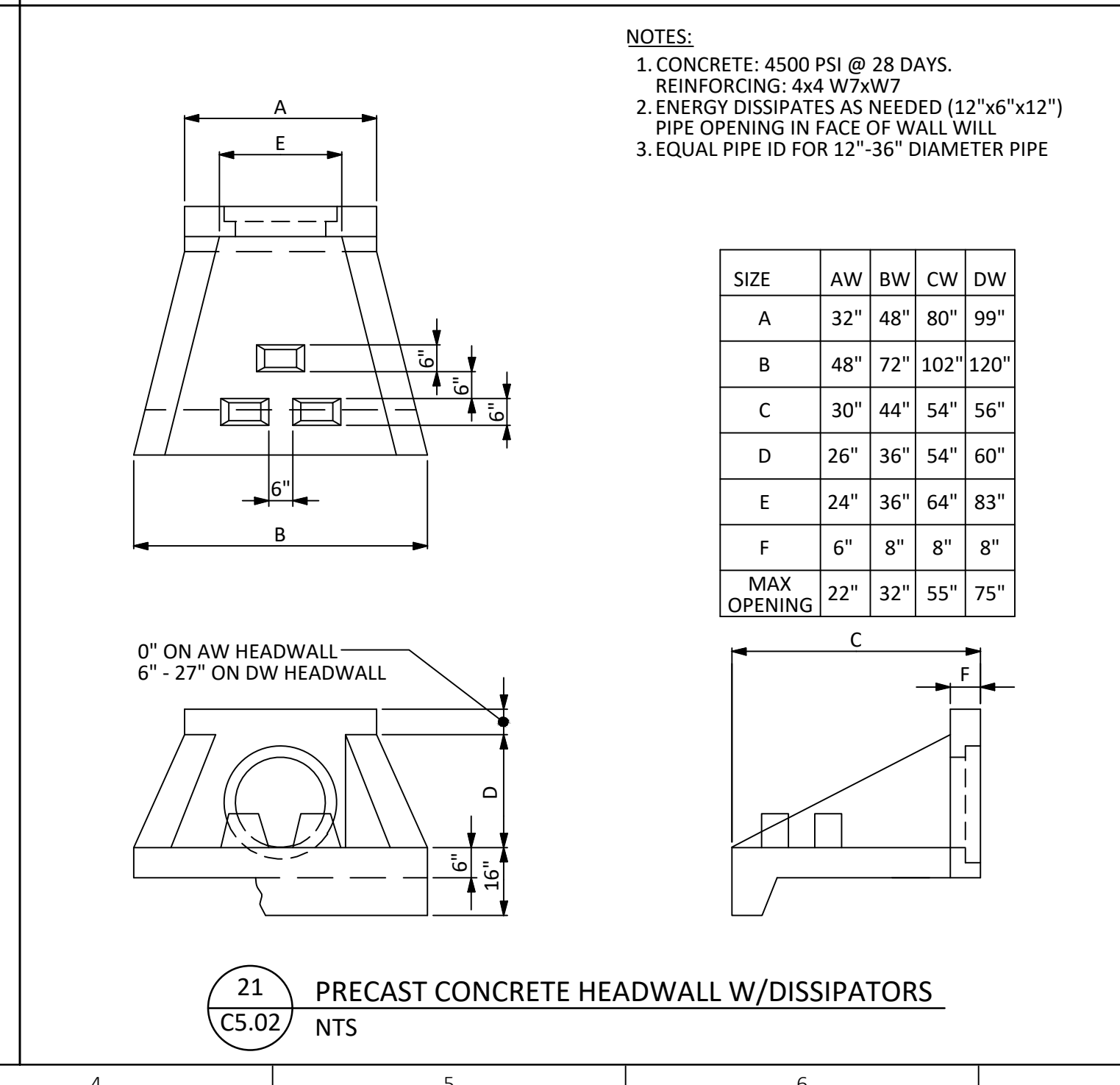
18 TEMPORARY ROCK CHECK DAM
C5.02 NTS



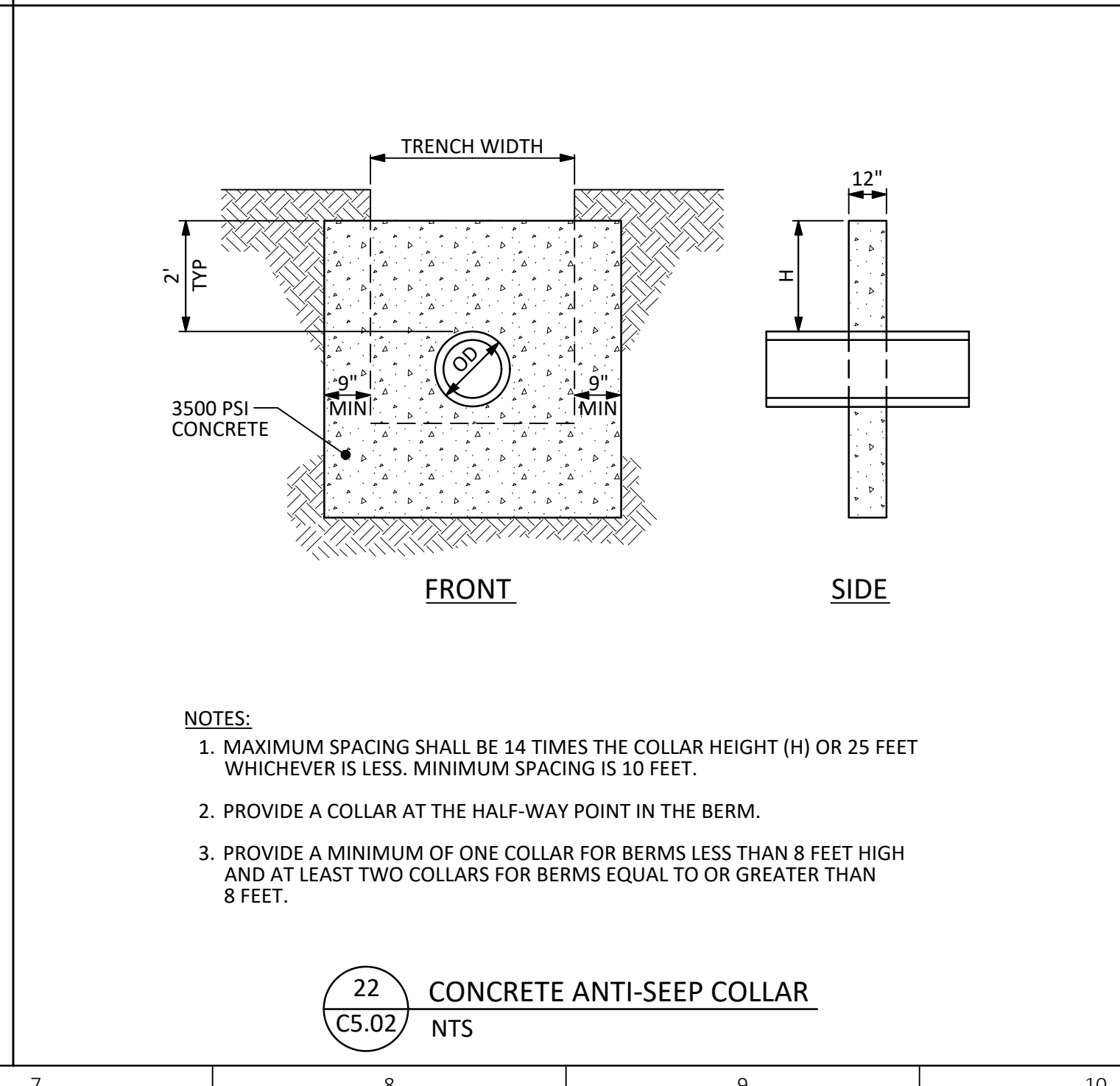
19 DIVERSION BERM
C5.02 NTS



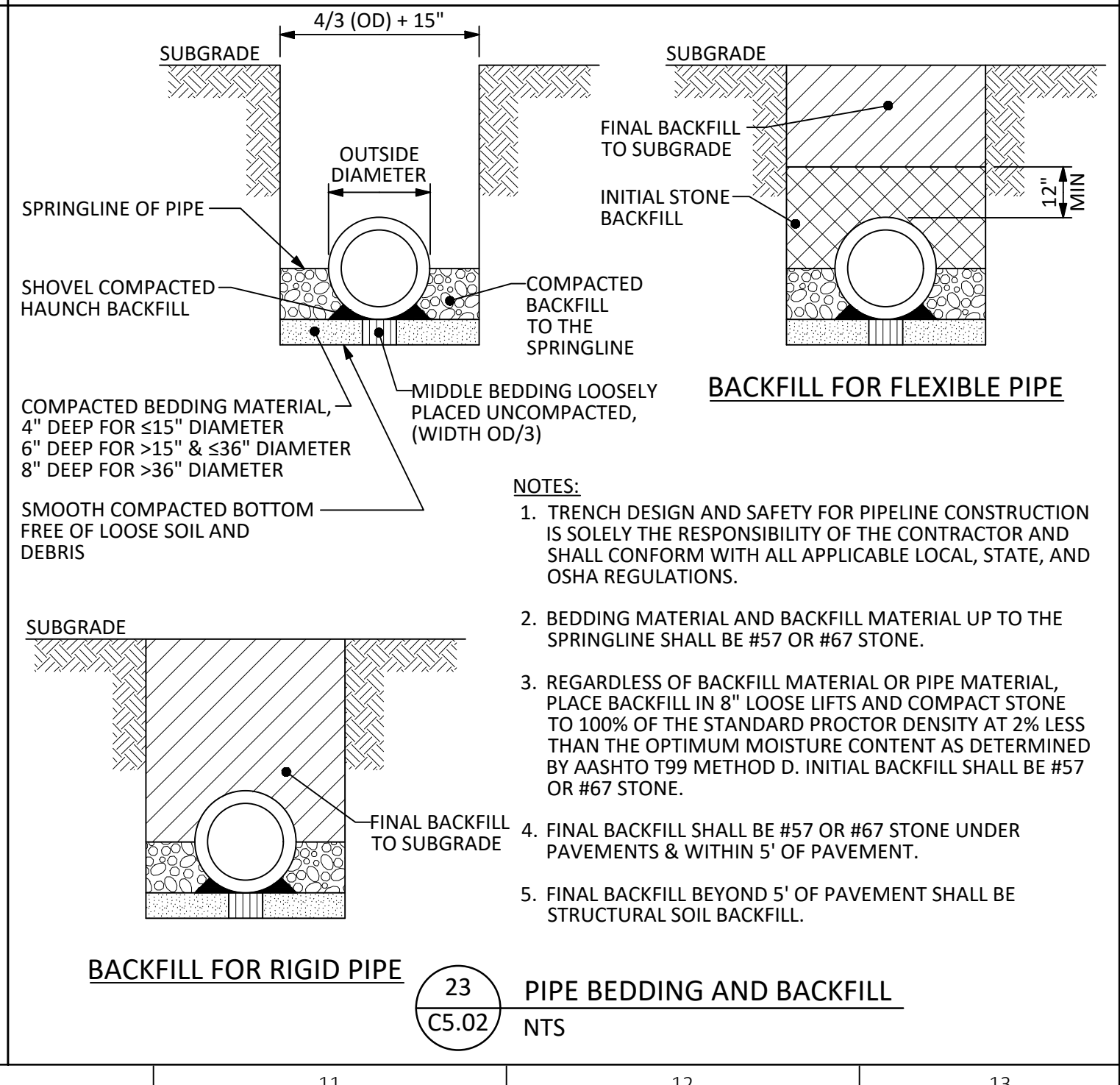
20 PRECAST CONCRETE HEADWALL
C5.02 NTS



21 PRECAST CONCRETE HEADWALL W/DISSIPATORS
C5.02 NTS



22 CONCRETE ANTI-SEEP COLLAR
C5.02 NTS



23 PIPE BEDDING AND BACKFILL
C5.02 NTS

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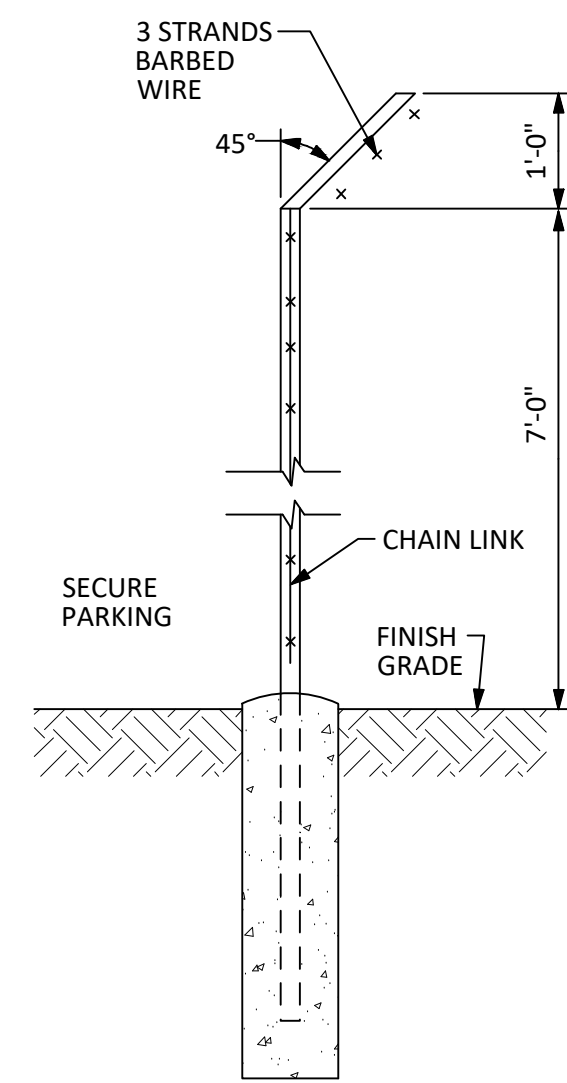
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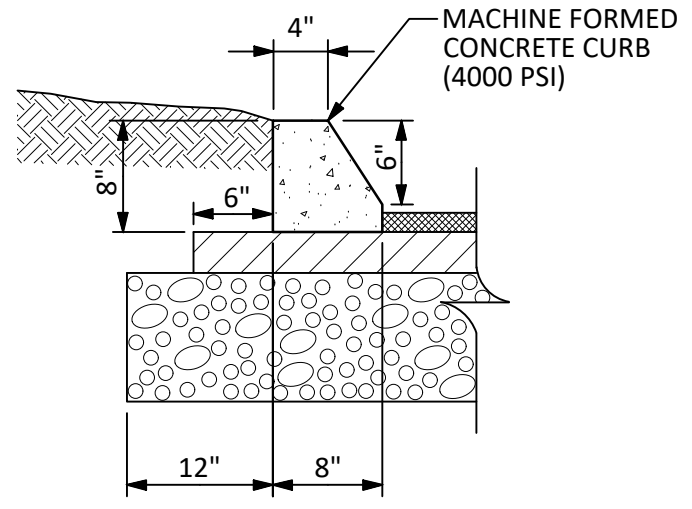
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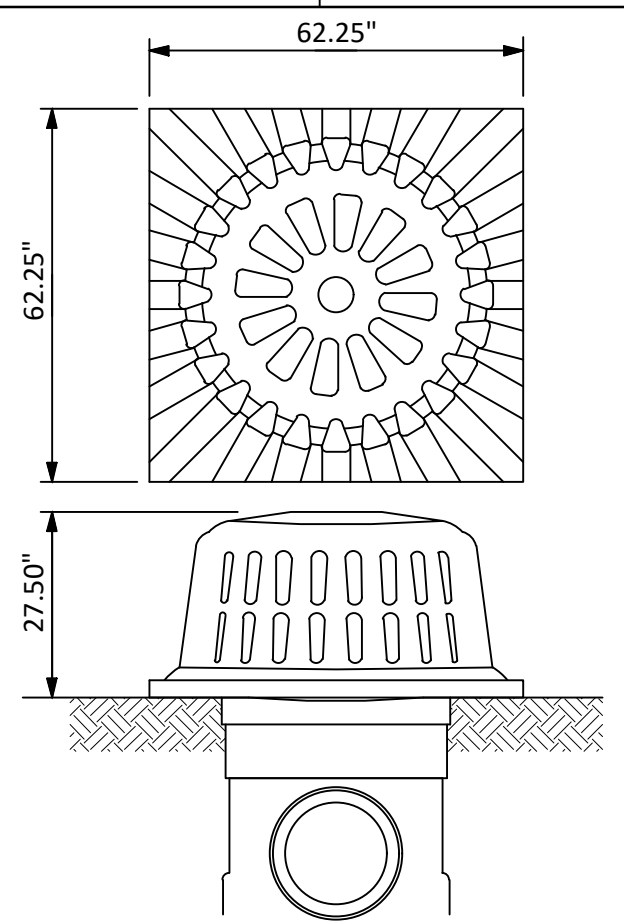


24 SECURITY FENCE
C5.03 NTS



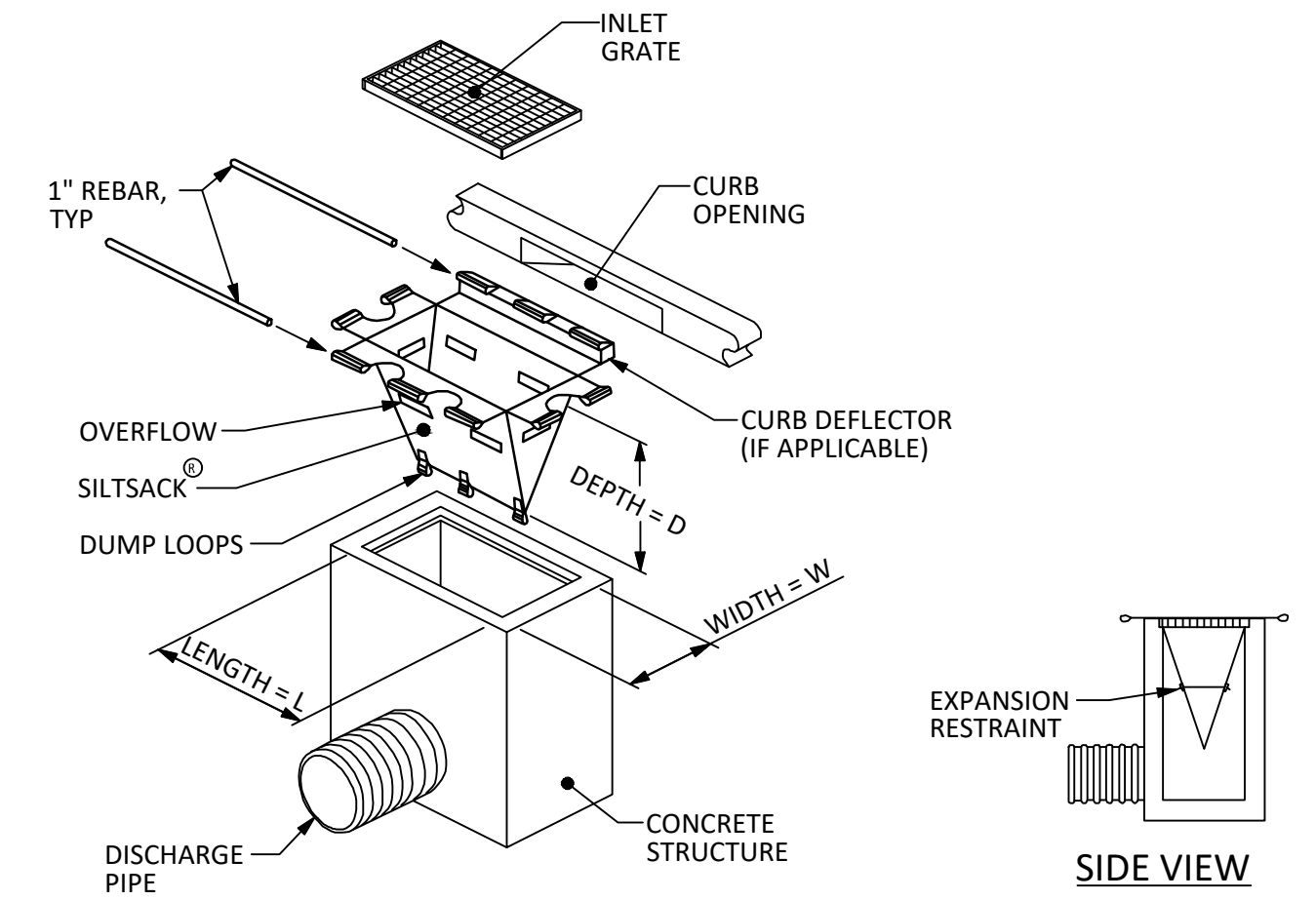
- NOTES:**
1. PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 25' MAXIMUM CENTERS. EQUALLY SPACE 1/4" CONTRACTION JOINTS AT 5' MAXIMUM CENTERS BETWEEN EXPANSION JOINTS.
 2. EXPANSION JOINT MATERIAL REQUIRED FOR GRASS MEDIANS.
 3. EXACT CURB DIMENSIONS MAY BE ALTERED SLIGHTLY TO FIT STANDARD EXTRUDED CURB MACHINES, BUT SUCH VARIANCES MUST BE APPROVED BY THE ENGINEER.
 4. IMMEDIATELY AFTER THE CONCRETE HAS SUFFICIENTLY SET, BACKFILL BEHIND CURBS TO PREVENT PONDING OF SURFACE WATER.

25 EXTRUDED CURB
C5.03 NTS



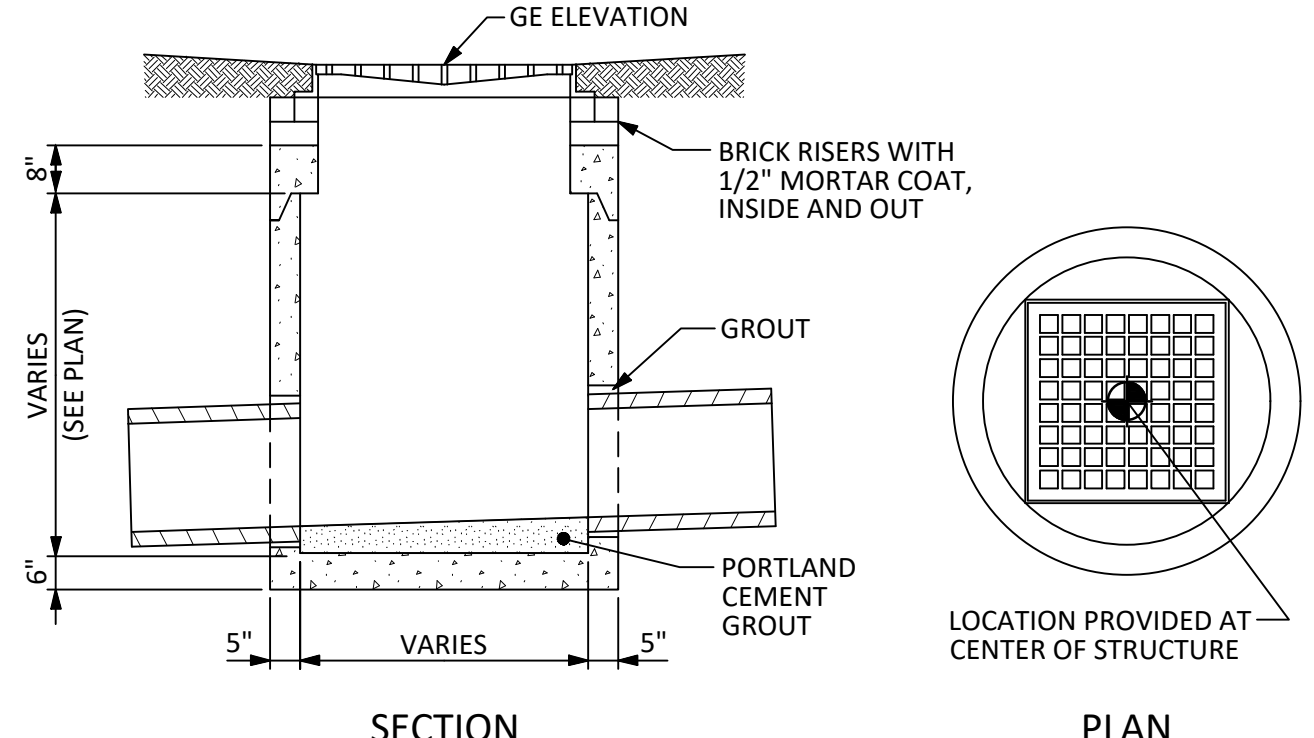
- NOTES:**
1. SILT SAVER SQUARE FRAME AND FILTER, MODEL NO. SS-200A OR APPROVED EQUAL FOR INLETS IN OPEN AREAS.
 2. TO BE USED ON ALL STRUCTURES WHILE GRADING ACTIVITIES ARE ONGOING. REPLACE INLET PROTECTION WITH AN INTERNAL SYSTEM ONCE DRAINS ARE LOCATED IN PAVED AREAS.
 3. ONCE PERMANENT VEGETATION IS ESTABLISHED, REMOVE THE INLET PROTECTION, BACKFILL TRENCH WITH TOPSOIL, AND APPLY SEED AND MULCH TO ALL DISTURBED AREAS.

26 INLET PROTECTION
C5.03 NTS



- NOTES:**
1. THE INLET SEDIMENT CONTROL DEVICE SHALL BE SILTSACK[®] OR EQUIVALENT, FOR USE ON STORM STRUCTURES LOCATED IN PAVED AREAS WHERE THERE IS A POTENTIAL FOR RECEIVING SEDIMENT LADEN RUNOFF.
 2. REMOVE ONCE PERMANENT VEGETATION IS ESTABLISHED.

27 INLET SEDIMENT CONTROL DEVICE
C5.03 NTS



- NOTES:**
1. AREA DRAINS SHALL BE CIRCULAR OR SQUARE PRECAST CONCRETE STRUCTURE IN ACCORDANCE WITH ASTM C478 OR C913 (LATEST REVISION). DIMENSIONS VARY DEPENDING ON PIPE SIZE AND ANGLE OF PIPES IN AND OUT OF STRUCTURE. THE OPENING IN THE STRUCTURE TOP SHALL NOT BE LESS THAN THE GRATE DIMENSIONS.
 2. LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 3. LOCATION AND GE ELEVATIONS GIVEN AT CENTER OF THE STRUCTURE.
 4. FRAME AND GRATE SHALL BE EJ USA INCORPORATED MODEL NO. V-5630 OR EQUAL. GRATE IN PEDESTRIAN TRAFFIC AREAS SHALL BE EJ USA INCORPORATED MODEL NO. V-5630-80 ADA STYLE OR EQUAL. THE GRATE SHALL BE STAMPED WITH "DUMP NO WASTE...DRAINS TO WATERWAYS" WITH FISH IMAGE, OR EQUAL.
 5. SHIM THE FRAME TO MATCH THE CROSS SLOPE AND GUTTER LINE SLOPES OF THE PAVEMENT.

28 AREA DRAIN
C5.03 NTS



TUCKALEECHEE
UTILITY DISTRICT
7706 CHESTNUT HILL
ROAD
TOWNSEND, TN 37882

MR. JORDAN YOUNG
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(865) 448-2230

NO.	DATE	REVISION	BY	AE
1	11/08/2024	REVISED TO ADD DETAILS AND RENUMBER		

TUCKALEECHEE UTILITY DISTRICT
OPERATIONS CENTER

DETAILS

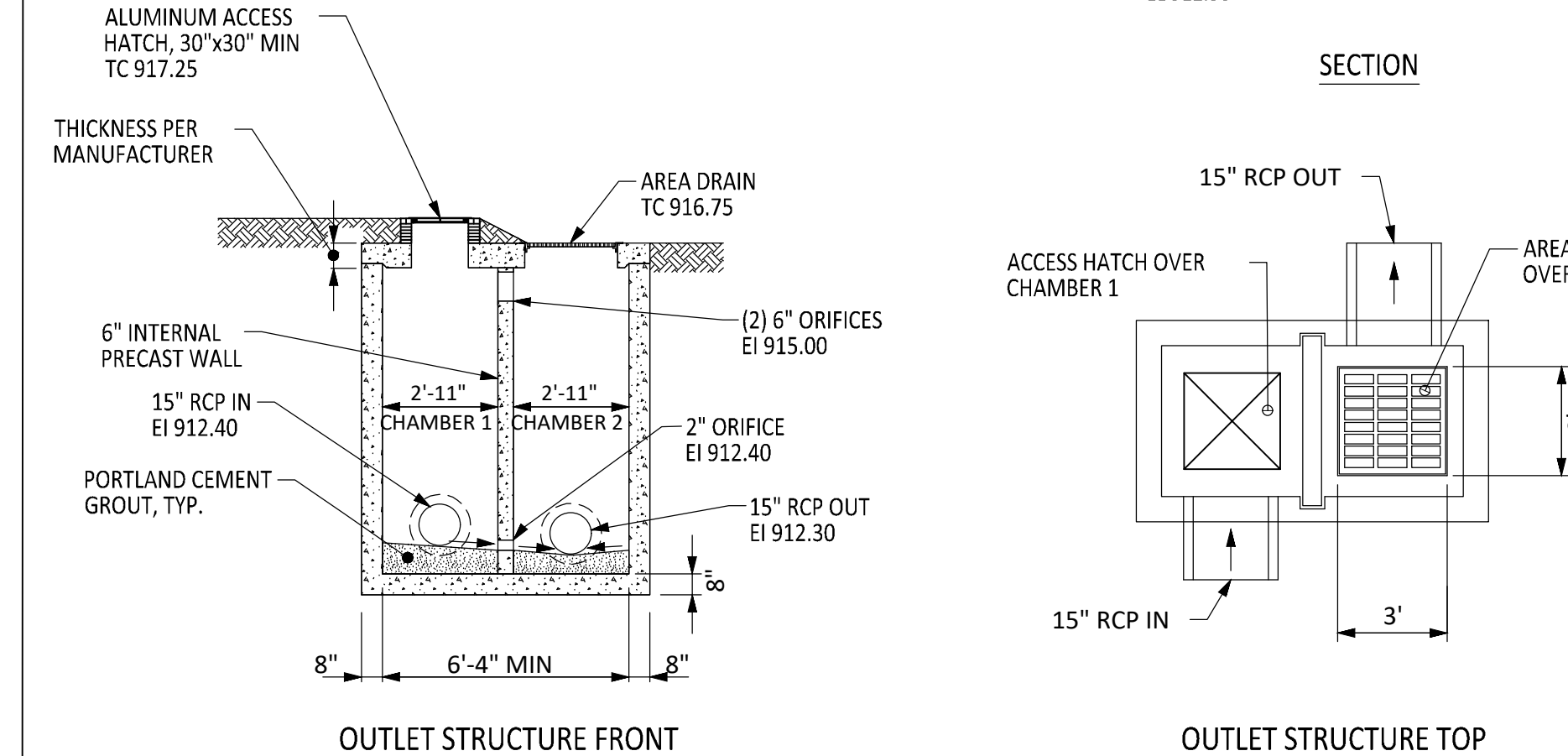
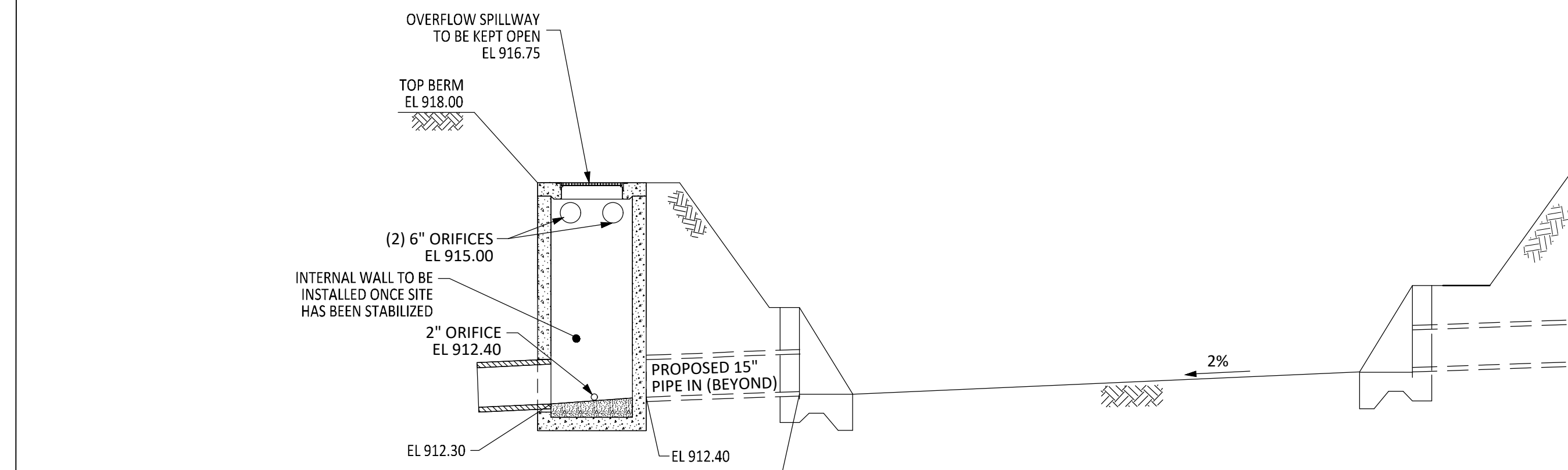
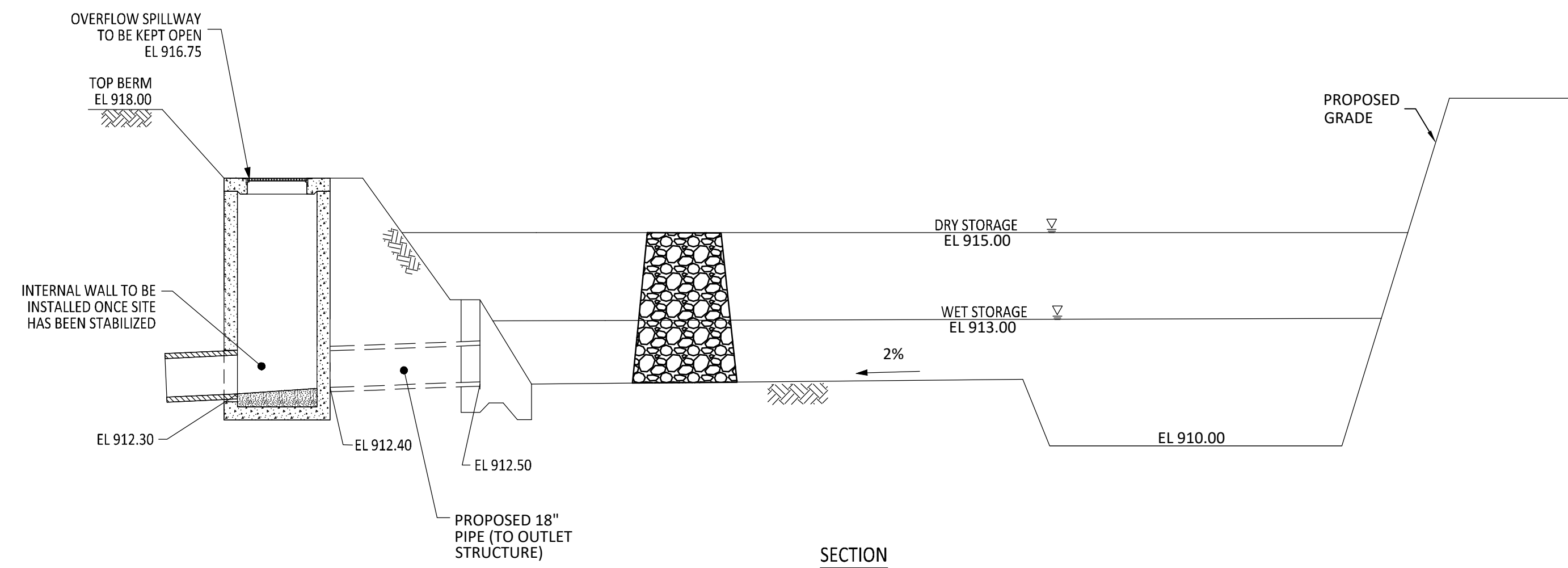
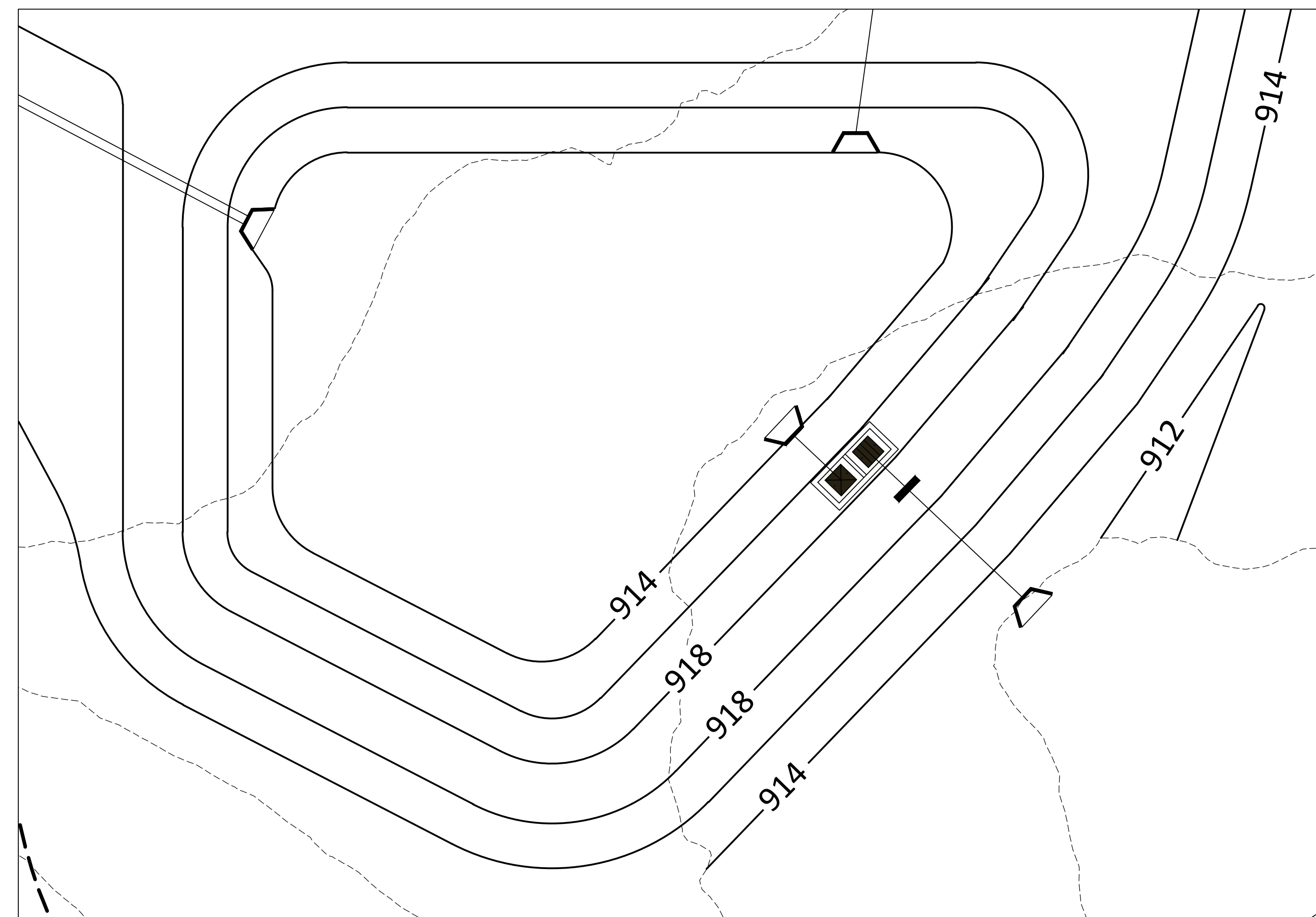
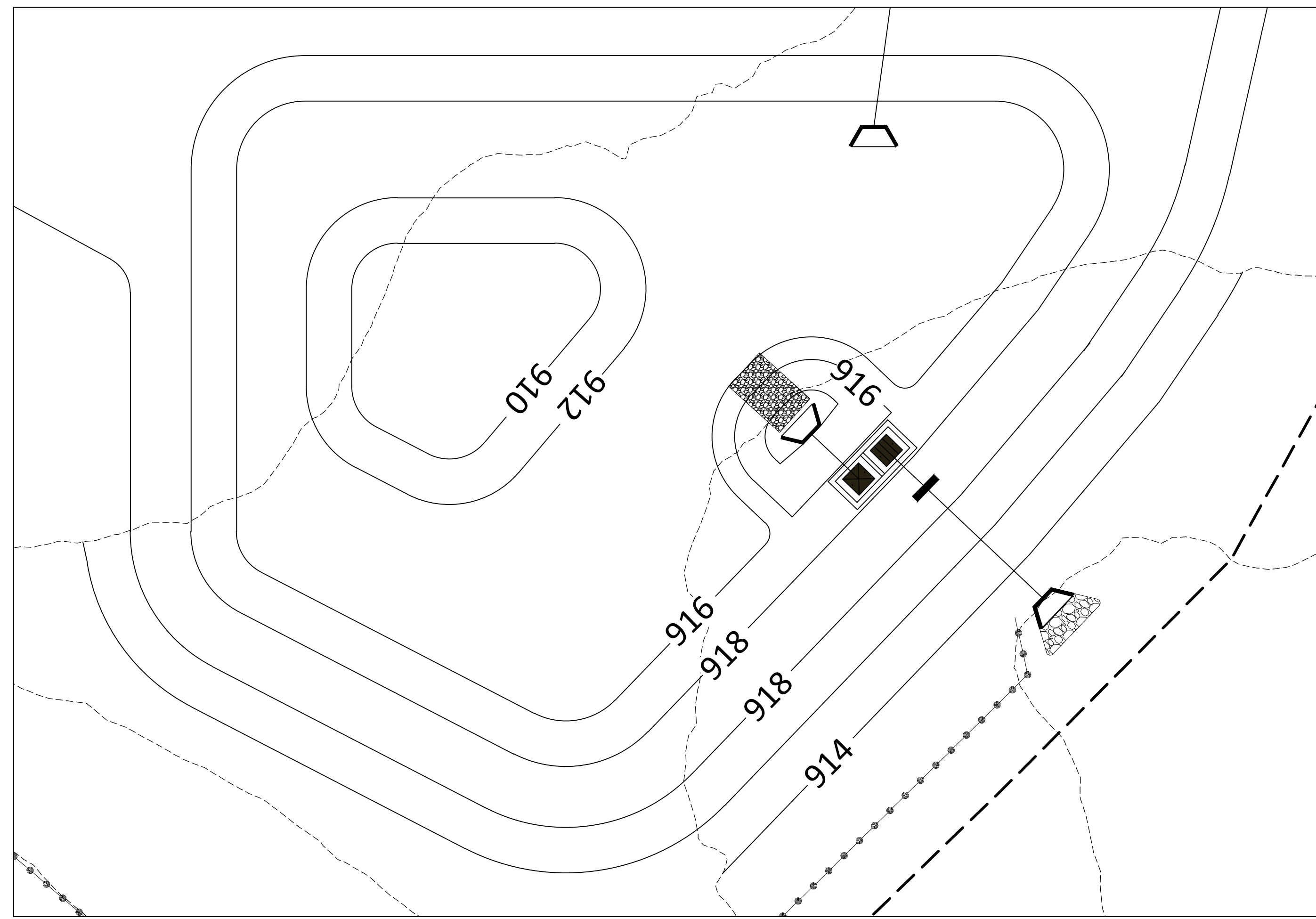


JOB NO: 735.009
DATE: 10/02/2024

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10/02/2024

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25 SEDIMENT TRAP AND TEMPORARY OUTLET STRUCTURE
C5.04 NTS

26 DETENTION POND AND OS 2
C5.04 NTS

- OUTLET STRUCTURE NOTES:**
1. CONCRETE TO BE F = 4000 PSI @ 28 DAYS, REINFORCING STEEL TO MEET THE REQUIREMENTS OF ASTM 4615, F = 60,000 PSI.
 2. LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 3. FRAME AND GRATE SHALL BE EJ USA INC. NO. V-5636 OR APPROVED EQUAL.
 4. ACCESS HATCH SHALL BE 30" X 30" MIN. ALUMINUM, LOCKABLE, AND SELF-SUPPORTING WHEN IN OPEN POSITION, AS PROVIDED BY C.R. BARGER & SONS, INC. OR APPROVED EQUAL.

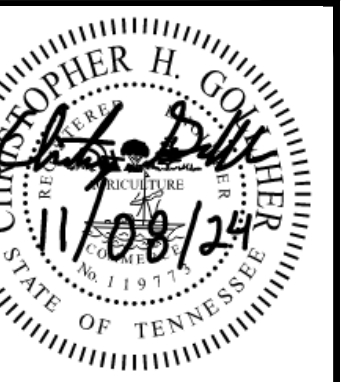


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