

GENERAL NOTES

- THE TOPOGRAPHIC INFORMATION WAS PROVIDED BY MONTGOMERY COUNTY.
- ELEVATIONS SHOWN ARE RELATIVE TO NAVD88 DATUM.
- NO PORTION OF THIS PROJECT LIES WITHIN THE 100 YR FLOOD PLAIN.
- GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS PROVIDED BY:
TTL
2971 INTERNATIONAL BLVD., STE C
CLARKSVILLE, TN 37040
(931) 647-6959
TTL PROJECT NO. 26-08-00220
- THE CONTRACTOR WILL PROVIDE ALL SITE CLEARING STAKING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE ACCURACY OF THE AERIAL MAPPING.
- ALL WORK SHALL BE PERFORMED, AS A MINIMUM, TO THE STANDARDS AND REQUIREMENTS OF MONTGOMERY COUNTY AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) UNLESS MORE RESTRICTIVE OR DEMANDING REQUIREMENTS ARE SHOWN HEREON IN WHICH CASE THE MORE RESTRICTIVE OR DEMANDING SHALL APPLY. ALL WORK MUST OBTAIN THE APPROVAL OF THE APPROPRIATE DEPARTMENTS AND/OR AGENCIES OF MONTGOMERY COUNTY, AND MUST MEET OR EXCEED THE STATE OR FEDERAL REQUIREMENTS, IF IT SO APPLIES.
- THE VARIOUS SUBSECTIONS IN THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION ENTITLED "BASIS FOR PAYMENT" SHALL NOT BE APPLICABLE.
- THE OWNER AND ENGINEER MAKE NO REPRESENTATIONS ABOUT THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY CONDUCTING ON-SITE INSPECTIONS.
- CONTRACTOR TO MAINTAIN AND PROTECT AS NECESSARY ALL EXISTING STRUCTURES, FACILITIES, APPURTENANCES, INFRASTRUCTURE (E.G. PIPES, CULVERTS, CONDUITS, WIRES), PROPERTY, OR OTHER ITEMS TO REMAIN. ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. AT NO ADDITIONAL COST, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING FACILITIES TO A CONDITION EQUAL OR BETTER THAN EXISTING, ABOVE OR BELOW GROUND, THAT MAY OCCUR
- APPROXIMATE LOCATIONS, DIMENSIONS AND ELEVATIONS OF SHOWN EXISTING PUBLIC OR PRIVATE UTILITIES, STRUCTURES, AND OTHER FEATURES IN THESE CONSTRUCTION PLANS ARE SHOWN ACCORDING TO THE BEST INFORMATION MADE AVAILABLE AT THE TIME OF PREPARATION AND MAY BE INCOMPLETE. THE OWNER AND/OR ENGINEER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. 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 WITH ANY DISCREPANCIES WITH THE INFORMATION SHOWN IN THESE PLANS REPORTED IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF ANY UTILITIES IN THE RELOCATION OF EXISTING FACILITIES, WHERE REQUIRED, AND/OR THE OWNER OR HIS REPRESENTATIVE IN THE ADJUSTMENT OF PROPOSED FACILITIES.
- DISCREPANCIES IN FIELD CONDITIONS, PLAN CONDITIONS, OR CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THIS RESPONSIBILITY. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF THEIR PERSONNEL.
- KEEP SITE NEAT AND CLEAN AT ALL TIMES. CONTINUOUSLY REMOVE DEBRIS AND LEGALLY DISPOSE OF UNSUITABLE MATERIAL. BURNING OF MATERIALS ON SITE IS PROHIBITED.
- RECORD DRAWINGS WILL BE THE CONTRACTOR'S OBLIGATION AND SHALL BE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR, REGISTERED IN THE STATE OF TENNESSEE, IN COMPLIANCE WITH ALL LOCAL COUNTY SPECIFICATIONS & REQUIREMENTS. THE RECORD DRAWINGS SHALL ALSO INCLUDE AS-BUILT CONSTRUCTION INFORMATION FOR INJECTION WELL INCLUDING TOP AND BOTTOM ELEVATION OF THE STAND PIPE. IN ADDITION TO THE SIGNED AND SEALED RECORD SURVEY, THE CONTRACTOR SHALL SUBMIT AN AUTOCAD DRAWING VERSION 2013 OR NEWER TO THE ENGINEER SHOWING ALL FIELD CHANGES IDENTIFIED ON THE RECORD SURVEY INCORPORATED INTO THE ENGINEER'S ORIGINAL AUTOCAD DATA BASE.
- CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN AND MAKE HIS/HER BID BASED ON THOSE VERIFICATIONS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

EROSION & SEDIMENT CONTROL NOTES

- ALL WORK UNDER THIS SECTION IS TO BE PERFORMED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE CURRENT VERSION OF THE "TENNESSEE EROSION PREVENTION AND SEDIMENT CONTROL HANDBOOK", AND THE REQUIREMENTS OF MONTGOMERY COUNTY, TENNESSEE.
- EROSION AND SEDIMENT CONTROL MEASURES AROUND THE EXTERIOR OF THE SITE SHALL BE INSTALLED PRIOR TO ANY ON-SITE GRADING ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSPECTED PRIOR TO THE START OF GRADING ACTIVITIES.
- PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO ALL DENUDED AREAS WITHIN 7 DAYS OF REACHING FINAL GRADE OR TO OTHER DENUDED AREAS WHICH ARE TO REMAIN DORMANT FOR LONGER THAN 14 DAYS. ALL TOPSOIL STOCK-PILES SHALL BE STABILIZED OR PROTECTED WITH SILT FENCE SEDIMENT TRAPPING.
- ALL DISTURBED AREAS SHALL BE TOP SOILED, FERTILIZED, SEEDED AND MULCHED. AN ACCEPTABLE GROWTH OF GRASS IS REQUIRED IN ALL AREAS DESIGNATED FOR SEEDING. AN ACCEPTABLE GROWTH IS CONSIDERED 100 SEEDLINGS PER SQUARE FOOT OF THE PERMANENT SPECIES OF GRASS OF THE SEED MIXTURE. IF THE PLANTING IS LESS THAN 50% SUCCESSFUL, REWORK THE GROUND, RE-FERTILIZE, RE-SEED AND RE-MULCH. ALL SEEDING MUST MEET THE APPROVAL OF THE ENGINEER.
- NO ACCESS IS TO BE PROVIDED DIRECTLY TO THE PUBLIC RIGHT-OF-WAY WITHOUT AN APPROVED CONSTRUCTION ENTRANCE. PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE WITH 2-3" STONE MAY BE REQUIRED TO PREVENT THE ACCUMULATION OF DUST AND MUD ON THE CITY/COUNTY STREETS.
- THE CONTRACTOR IS REQUIRED TO PREVENT ALL RUNOFF AND SEDIMENT FROM DAMAGING ADJACENT PROPERTIES.
- ON AND OFF-SITE DUST AND MUD TO BE CONTROLLED AT ALL TIMES. THIS MAY REQUIRE PERIODIC ON-SITE WATERING OR OTHER METHODS FOR DUST CONTROL AND PERIODIC WASHING OF THE PUBLIC STREETS AS MAY BE NECESSARY.
- SITE GRADING SUMMARY:
DISTURBED ACREAGE = +/-0.67 ACRES
PRE-CONSTRUCTION IMPERVIOUS AREA = +/-0.00 ACRES
POST-CONSTRUCTION IMPERVIOUS AREA = +/-0.00 ACRES
- SEDIMENT CONTROL DEVICES ARE TO BE PERIODICALLY CLEANED WHEN ACCUMULATION OF SILT IS WITHIN HALF THE HEIGHT OF THE CONTROL DEVICE. THE DEVICES SHALL BE CHECKED WEEKLY AND WITHIN 24 HOURS AFTER EVERY RAINFALL OF 0.5" OR GREATER. IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY. ANY FAILURE OF A CONTROL DEVICE SHALL BE CORRECTED WITHIN 3 DAYS. THE CONTRACTOR WILL KEEP A LOG OF ALL INSPECTIONS AND REPAIR EFFORTS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROLS AT ALL TIMES TO PREVENT DUST FROM LEAVING THE PROJECT LIMITS.

GRADING NOTES

- ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE. CONTRACTOR SHALL ACCOUNT FOR DEPTH OF GROUND COVER (E.G. TOPSOIL). ALL AREAS MUST DRAIN WITHOUT ANY NOTICEABLE PONDING. THE CONTRACTOR WILL BE REQUIRED TO REGRADE AND REFINISH ANY AREAS WHICH DO NOT COMPLY WITH POSITIVE DRAINAGE WITHOUT PONDING.
- 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.
- STRIP AND STOCKPILE ALL TOPSOIL IN CUT AND FILL AREAS. PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL FOR ALL STOCKPILES. TAKE CARE TO AVOID MIXING SUBSOIL AND OTHER UNSUITABLE MATERIAL WITH THE TOPSOIL.
- AT ALL TIMES MAINTAIN THE AREA SO IT WILL BE WELL DRAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- EXCAVATE AREAS OF YIELDING OR UNSUITABLE MATERIAL AND BACKFILL WITH APPROVED MATERIAL AS DIRECTED BY A/E.
- ALL DISTURBED AREAS ARE TO BE PERMANENTLY VEGETATED. FINISH GRADE AND SPREAD TOPSOIL FROM STOCKPILES ON ALL DISTURBED AREAS EXCEPT BUILDING LOCATIONS AND AREAS TO BE PAVED TO THE FINISHED CONTOUR ELEVATIONS SHOWN ON THE PLANS. SCARIFY SUBGRADE TO A DEPTH OF 3" BEFORE PLACING TOPSOIL. PROVIDE A MINIMUM 4" TOPSOIL THICKNESS ON SUBGRADE AND 12" ON ROCK. SLOPE UNIFORMLY WITH NO WATER POCKETS. CAREFULLY RAKE THE TOPSOIL BY HAND TO REMOVE ALL CLODS, ROOTS, STICKS, STONES OVER 1" IN DIAMETER AND OTHER FOREIGN MATERIALS FROM THE SURFACE.
- ALL EXCAVATION IS UNCLASSIFIED WITHOUT REGARD TO MATERIALS ENCOUNTERED. CONTRACTOR SHALL VISIT SITE AND DRAW HIS OWN CONCLUSIONS ON CONDITIONS TO BE ENCOUNTERED. LINE AND GRADES SHOWN SHALL BE ACHIEVED WITHOUT ADDITIONAL COMPENSATION.

SEEDING NOTES

- 4" OF TOPSOIL SHALL BE PROVIDED ON ALL AREAS TO BE SEEDED UNLESS NOTED OTHERWISE. INSTALL AND STABILIZE TOPSOIL PRIOR TO SEEDING.
- SEED BED PREPARATION: THOROUGHLY DISC, SCARIFY, & LOOSEN SUBGRADE OF LAWN AREAS TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION. REMOVE ROCKS, STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER THAT WILL INTERFERE WITH VEGETATION ESTABLISHMENT OR MAINTENANCE OPERATIONS. ADD SPECIFIED SOIL AMENDMENTS AND MIX THOROUGHLY INTO UPPER 4 INCHES OF TOPSOIL.
- FERTILIZER: CONTRACTOR SHALL PERFORM A SOIL TEST PRIOR TO SEEDING AND APPLICATION OF ANY SOIL AMENDMENTS, AND SUBMIT RESULTS OF SOIL TESTS TO OWNER'S ENGINEER FOR APPROVAL. APPLY ALL AMENDMENTS PER SOIL TEST RECOMMENDATIONS. SPREAD LIME AND FERTILIZER UNIFORMLY OVER ALL AREAS IMMEDIATELY BEFORE FINAL LAND PREPARATION AND MIX THOROUGHLY WITH THE SOIL.
- PERMANENT VEGETATIVE COVER OF AT LEAST 75% IS REQUIRED FOR SUBSTANTIAL COMPLETION AND 95% COVER IS REQUIRED FOR FINAL COMPLETION.
- REPAIR AND RESEED ALL ERODED OR DISTURBED SEEDED AREAS WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED.
- THE CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTENANCE OF SEEDED AREAS UNTIL 95% PERMANENT GRASS COVER IS ESTABLISHED AND SEEDED AREAS EXHIBIT HEALTHY AND VIGOROUS GROWTH AS DETERMINED BY OWNER'S ENGINEER.
- SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF NAMED SPECIES, PROPORTIONS, AND MINIMUM PERCENTAGES OF PURITY, GERMINATION AND MAXIMUM PERCENTAGE OF WEED SEED.
- AREAS WILL BE REPLANTED IF PERMANENT VEGETATION IS DISTURBED OR NOT ESTABLISHED. CONTRACTOR TO MECHANICALLY REMOVE GROWTH OF OVER 12" PRIOR TO OVER SEEDING AND RESEEDING MEADOW AREAS IN THE SPRING TO ALLOW GROWTH OF PERMANENT VEGETATION.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS.
- SEEDING IS TO BE DONE AS AREAS ARE READY. IF THE CONSTRUCTION SCHEDULE ALLOWS, SEEDING APPLICATION SHOULD BE DONE ACCORDING TO THE OPTIMUM SEEDING DATES DEPICTED IN THE SEEDING SCHEDULE. A TEMPORARY SEED AND APPLICATION IS TO BE ADDED TO THE SEED MIX DURING THE DATES LISTED IN THE SEED SCHEDULE. TIMING OF SEEDING IS TO BE AS NOTED ON DRAWINGS OR SPECIFICATIONS.
- THE VENDOR SHALL NOTIFY THE OWNER'S ENGINEER BEFORE SHIPMENTS ARE MADE SO THAT ARRANGEMENTS CAN BE MADE FOR INSPECTION AND TESTING OF STOCK.
- AT THE DISCRETION OF THE OWNER'S ENGINEER, SAMPLES OF THE SEED MAY BE TAKEN FOR CHECK AGAINST THE CERTIFIED LABORATORY REPORT. SAMPLING AND TESTING WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF AGRICULTURE.

SITE NOTES

- ALL CONCRETE PERTAINING TO THE SITE PLAN AND RELATED EXTERIOR CONCRETE ITEMS SHALL BE Fc' = 4,000 PSI, AS DEFINED BY ACI STANDARDS, AIR ENTRAINED.
- ALL STREETS SHALL REMAIN CLEAR OF OBSTRUCTIONS AT ALL TIMES. ALL CONSTRUCTION EQUIPMENT SHALL BE STORED WITHIN AN AREA OTHER THAN THE EXISTING DRIVEWAY, PARKING TO REMAIN, OR ROADWAY.

STORM DRAINAGE NOTES

- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST AND MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR WITH SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
- ALL PIPE JOINTS AND JOINT MATERIAL ARE TO PROVIDE A WATERTIGHT CONNECTION.
- ALL PIPE TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS TO THE LOCATIONS AND ELEVATIONS AS SHOWN ON THE PLANS.
- AT ALL TIMES, MAINTAIN THE PROJECT AREA IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REQUIREMENTS AS DEFINED IN THE DRAWINGS.
- DURING THE GRADING PROCESS, IF CONTRACTOR ENCOUNTERS DISCOLORED OR MALODOROUS SOILS INDICATING POSSIBLE CONTAMINANTS, GRADING ACTIVITY SHALL CEASE AND THE OWNER AND A/E SHALL BE NOTIFIED IMMEDIATELY.
- PROTECT THE EXCAVATED AREA AND PIPE FROM SEDIMENT AND DEBRIS ACCUMULATION. CLEAN AND FLUSH ALL SEDIMENT FROM THE PIPE AND DISCHARGE IN ACCORDANCE WITH THE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL. AFTER INSTALLATION AND DURING THE REMAINDER OF THE CONSTRUCTION PERIOD PROVIDE INLET PROTECTION FOR THE INJECTION WELL WITH SILT FENCE, OR OTHER ACCEPTED MEANS TO PREVENT SILT ACCUMULATION IN THE INJECTION WELL THROAT. ANY SEDIMENT, DEBRIS, ETC. THAT ACCUMULATES IN THE PIPE IS TO BE REMOVED PRIOR TO FINAL ACCEPTANCE.

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C0.01	CIVIL CONSTRUCTION NOTES
C2.03A	SINKHOLE INJECTION PLAN #1 - TEMPORARY GRADING PLAN
C2.03	SINKHOLE INJECTION PLAN #1 - FINAL GRADING PLAN
C7.03	SITE DETAILS
C7.05	SITE DETAILS
C7.06	SITE DETAILS



CIVIL CONSTRUCTION NOTES
 FARMINGTON BASIN
 MONTGOMERY COUNTY
 FLOOD MITIGATION DESIGN
 CLARKSVILLE, TENNESSEE 37043

REV.	OR	CHK.	DATE	DESCRIPTION
0	DM	AW	05-27-2026	INJECTION WELL A/E P - ISSUED FOR BID

C0.01
FILE NO. 3741603

USER: TLREED
 FILE: 3741603_04_CADD\CIVIL\Shimoda\LOT3741603C2.DWG
 SAVED: 3/26/2026
 PLOTTED: 3/27/2026



GRADING AND DRAINAGE NOTES

- SEE GRADING AND DRAINAGE NOTES ON SHEET C2.03.
- REMOVE TOPSOIL FROM AREA TO BE EXCAVATED AND STOCKPILE ADJACENT TO SITE.
- EXCAVATE DOWN TO THE BEDROCK (APPROXIMATE ELEVATION = 432).
- EXCAVATE THE DIAMETER SHOWN ON THIS SHEET.

LEGEND

- CONSTRUCTION EXIT (SEE DETAIL 5/C7.03)
- CONCRETE WASHOUT (SEE DETAIL 2/C7.03)
- LIMITS OF DISTURBANCE
- SILT FENCE (SEE DETAIL 2/C7.06)
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LIMITS OF DISTURBANCE = 0.87 AC**

INITIAL SEQUENCING:

- THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION ENTRANCE BEFORE ANY OTHER WORK CAN BEGIN.
- THE CONTRACTOR SHALL DESIGNATE A CONCRETE WASHOUT.
- THE CONTRACTOR SHALL INSTALL STONE CHECK DAMS AND A STONE RING FILTER.
- PERFORM EXCAVATION AS SHOWN.
- CONTRACTOR TO USE SEDIMENT FILTER BAG OR OTHER APPROVED MEASURE AS NECESSARY TO DEWATER THE EXCAVATED AREA.
- REFER TO SHEET C2.03 FOR THE FINAL PLAN AND SEQUENCING.

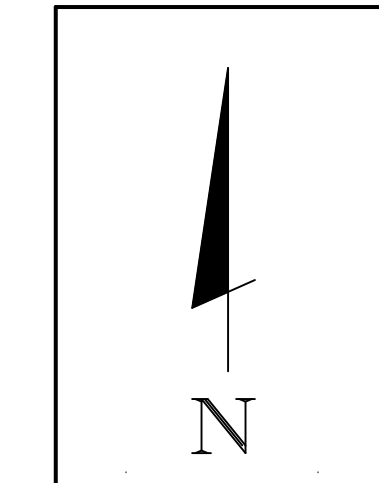
BARGE
 DESIGN SOLUTIONS

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



SINKHOLE INJECTION PLAN #1 - TEMPORARY GRADING PLAN

FARMINGTON BASIN
 MONTGOMERY COUNTY
 FLOOD MITIGATION DESIGN
 CLARKSVILLE, TENNESSEE 37043



PARCEL ID: 039 01600 000	
DATUM: TNSPC (NAD83) NAVD 1988	
50' 25' 0' 50' 100' SCALE: 1 INCH = 50 FEET	

REV.	DR.	CHK.	DATE	DESCRIPTION
0	DM	AW	03-27-2026	INJECTION WELL ALTP - ISSUED FOR BID

C2.03A
 FILE NO. 3741603

USER: TLREED
 FILE: 3741637416374163004_CAD\CIVIL\Sinkhole\LOT374163022.DWG
 SAVER: 3/26/2026
 PLOTTED: 3/27/2026



GRADING AND DRAINAGE NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
2. PROPERTY LINES ARE PER TAX PARCEL MAP, LOCATIONS ARE APPROXIMATE.
3. INJECTION WELL AND BACKFILL SHALL BE CONSTRUCTED AS SHOWN ON DETAIL 1 ON SHEET C7.05.
4. FIELD ADJUSTMENT OF FINAL LOCATION OF CMP INJECTION WELL MAY BE REQUIRED TO ENSURE THE CMP DISCHARGES INTO THE SINKHOLE THROAT. ULTIMATELY IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSITION THE OUTLET STRUCTURE ON THE THROAT.
5. ALL EXCAVATION IS UNCLASSIFIED WITHOUT REGARD TO MATERIALS ENCOUNTERED. CONTRACTOR SHALL VISIT SITE AND DRAW HIS OWN CONCLUSIONS ON CONDITIONS TO BE ENCOUNTERED. LINE AND GRADES SHOWN SHALL BE ACHIEVED WITHOUT ADDITIONAL COMPENSATION.
6. ALL WORK SHALL BE PERFORMED, AS A MINIMUM, TO THE STANDARDS AND REQUIREMENTS OF MONTGOMERY COUNTY AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) UNLESS MORE RESTRICTIVE OR DEMANDING REQUIREMENTS ARE SHOWN HEREON IN WHICH CASE THE MORE RESTRICTIVE OR DEMANDING SHALL APPLY. ALL WORK MUST OBTAIN THE APPROVAL OF THE APPROPRIATE DEPARTMENTS AND/OR AGENCIES OF MONTGOMERY COUNTY, AND MUST MEET OR EXCEED THE STATE OR FEDERAL REQUIREMENTS, IF IT SO APPLIES.
7. PLACE ALL NATIVE MATERIAL IN 6" LIFTS AND COMPACT TO A MINIMUM 90% STANDARD DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
8. SLOPE ALL DITCHES ACCORDING TO TYPICAL SECTION AND/OR GRADING PLAN.
9. GRADE TO A MINIMUM 2% LONGITUDINAL GRADE.
10. ELEVATION OF BEDROCK HAS BEEN IDENTIFIED BY TTL TO BE APPROXIMATELY 432'.

FINAL SEQUENCING:

1. MAINTAIN ALL BMPs INSTALLED IN INITIAL PHASE.
2. BACKFILL AREA PER FINAL GRADING PLAN AND DETAILS.
3. STABILIZE AREA USING SEED AND MULCH. USE EROSION CONTROL MATTING FOR SLOPES 4:1 OR STEEPER.
4. ONCE STABILIZED, THE BMPs CAN BE REMOVED.
5. CONTRACTOR SHALL PERFORM A FINAL CLEANUP AFTER BMPs ARE REMOVED. THE AREAS SHALL BE RESTORED TO THEIR PREVIOUS CONDITION.

LEGEND

- PERMANENT SEEDING LIMITS (SEE DETAIL 4/C7.03) AND DRAINAGE, MAINTENANCE AND ACCESS EASEMENT
 - GRAVEL ROAD REPAIR
 - PROPOSED ACCESS EASEMENT
 - LIMITS OF DISTURBANCE
 - STONE OUTFALL PROTECTION (SEE DETAIL 1/C7.03)
 - 400 - - - - - EXISTING MAJOR CONTOUR
 - - - - - EXISTING MINOR CONTOUR
 - 400 - - - - - PROPOSED MAJOR CONTOUR
 - - - - - PROPOSED MINOR CONTOUR
- LIMITS OF DISTURBANCE = 0.67 AC

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PARCEL ID:
039 01600 000

DATUM:
TNSPC (NAD83)
NAVD 1988

SCALE: 1 INCH = 50 FEET

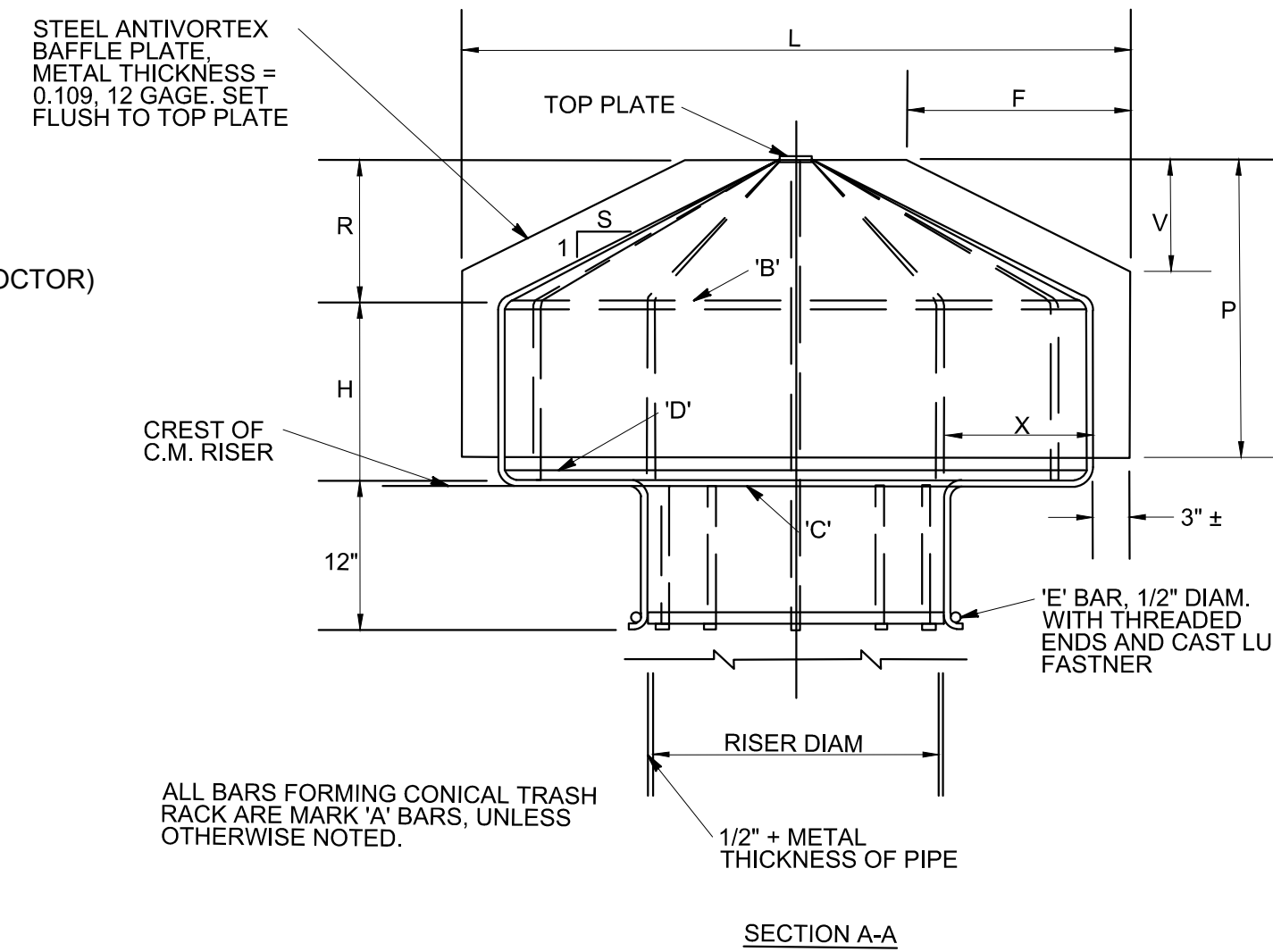
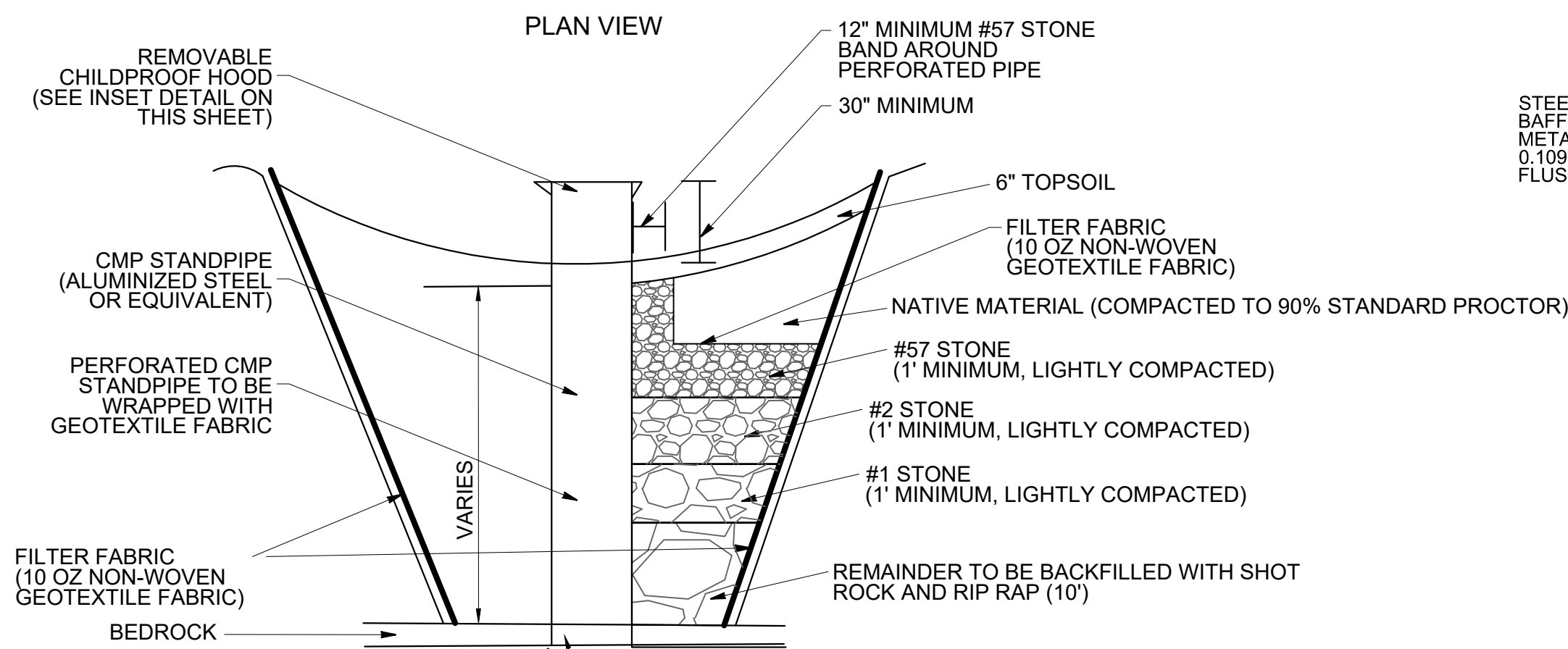
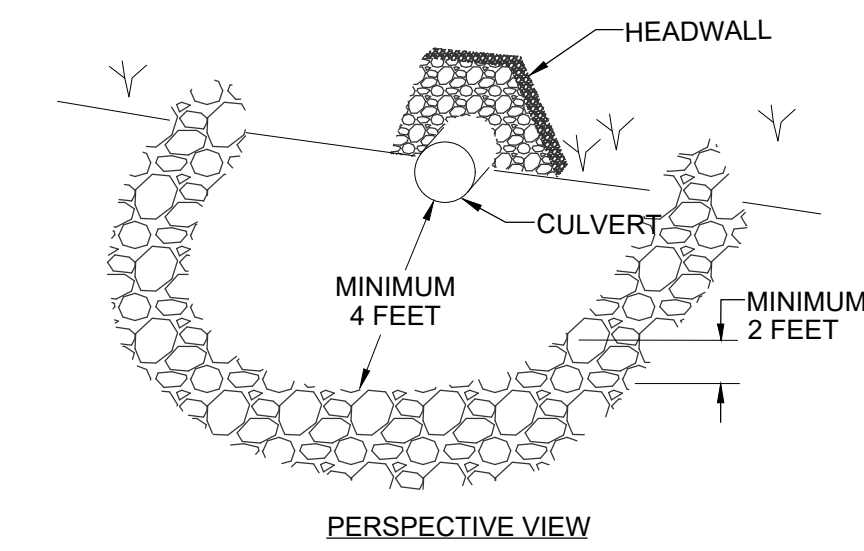
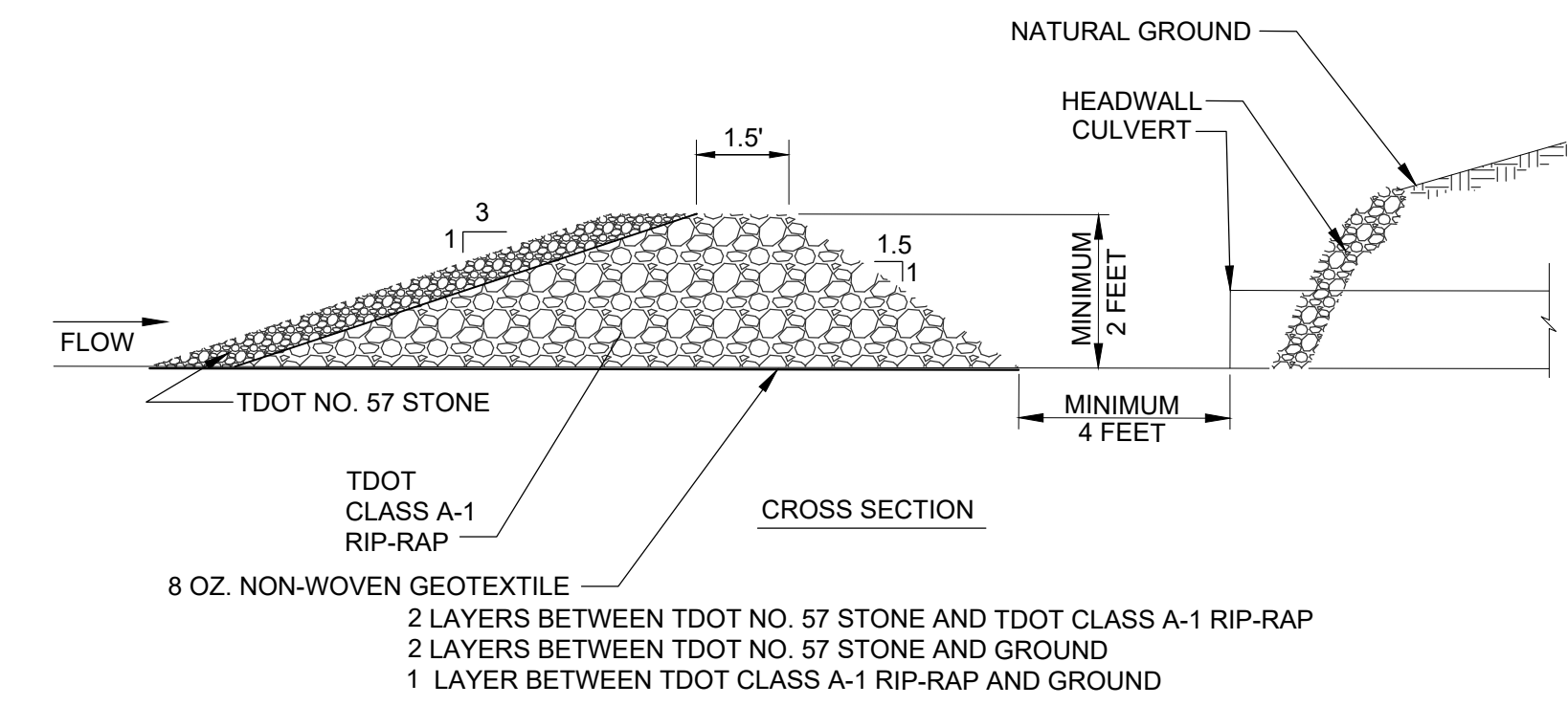
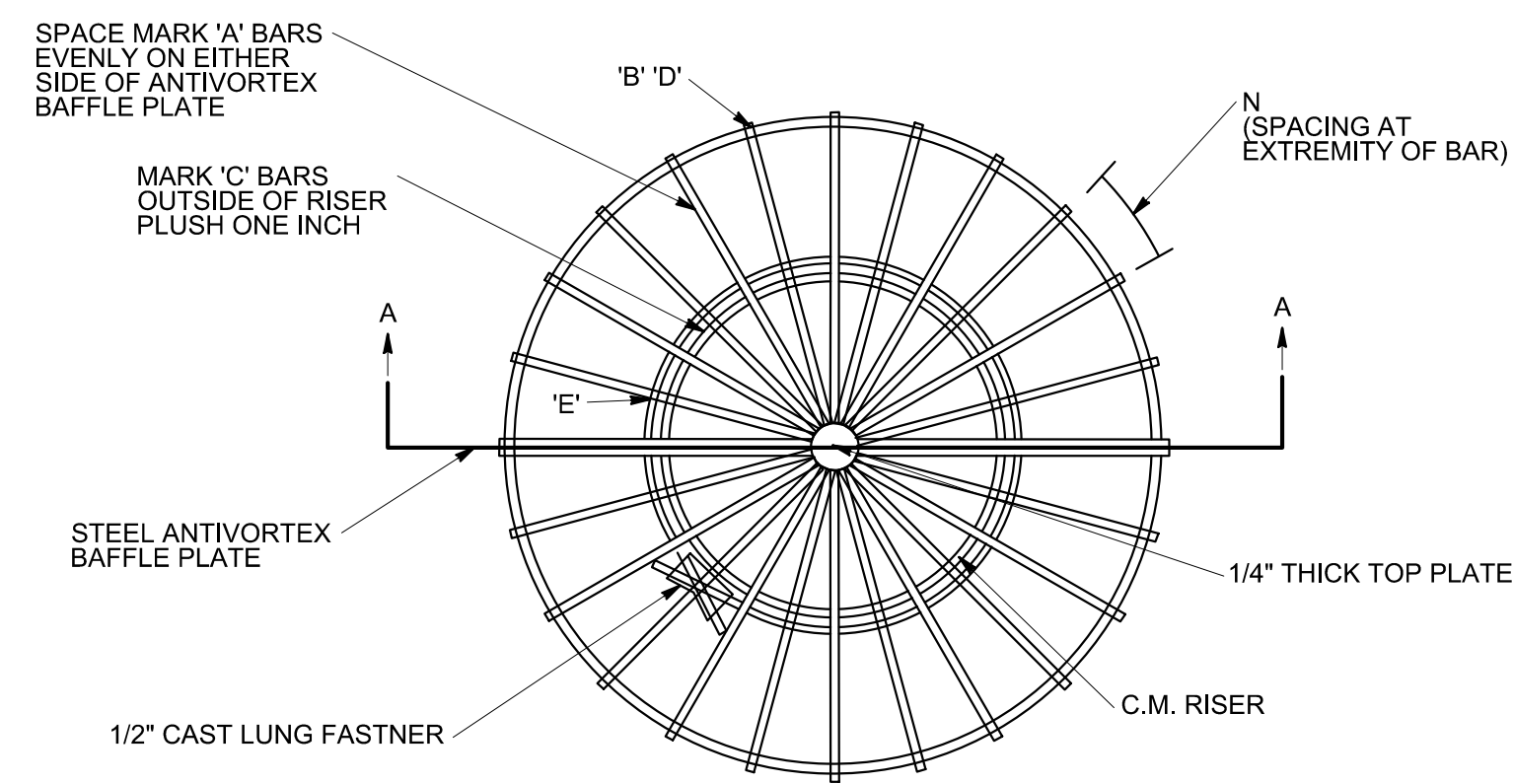
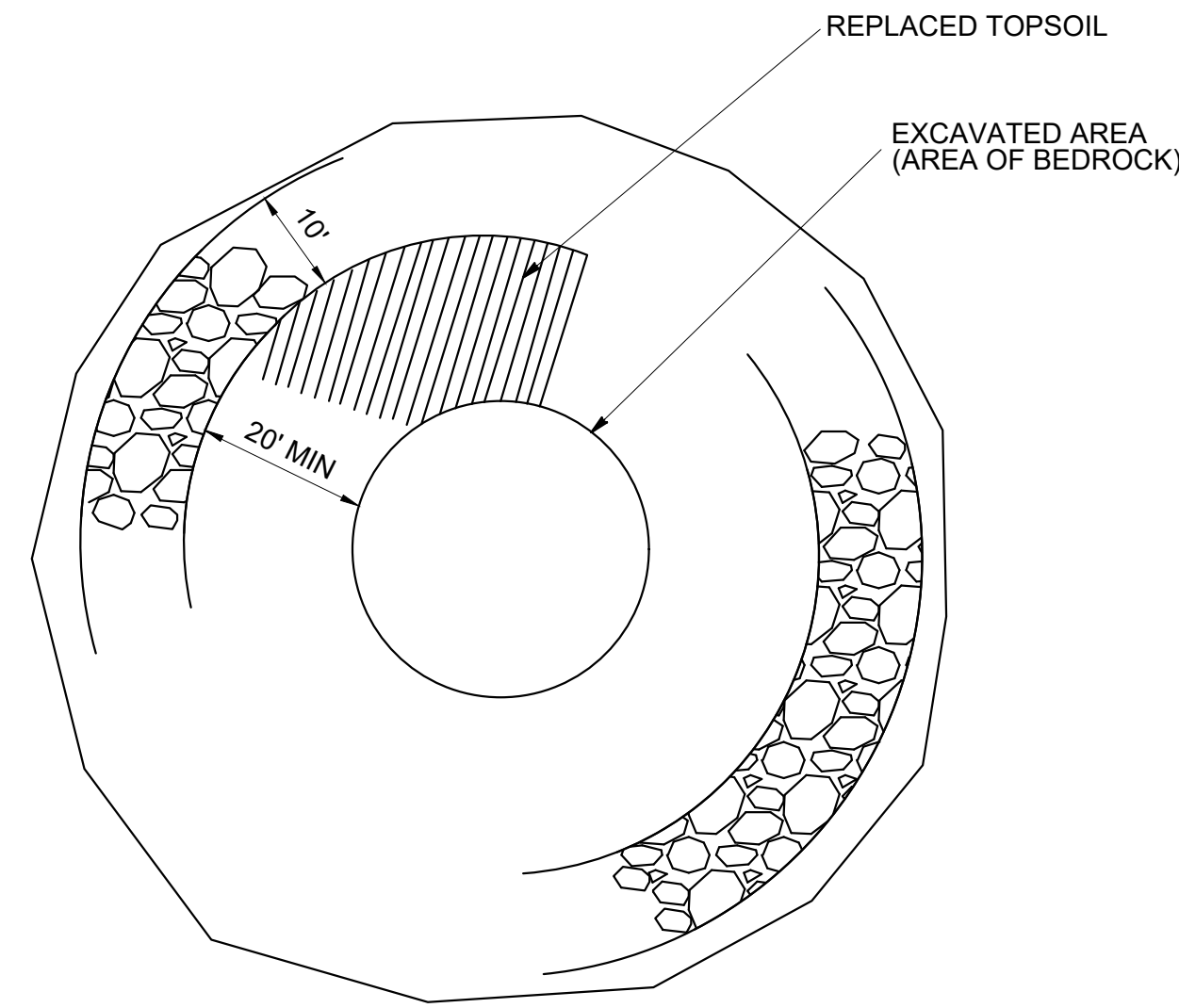
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SINKHOLE INJECTION PLAN #1 - FINAL GRADING PLAN
 FARMINGTON BASIN
 MONTGOMERY COUNTY
 FLOOD MITIGATION DESIGN
 CLARKSVILLE, TENNESSEE 37043

REV.	OR.	CHK.	DATE	DESCRIPTION
0		AW	03-27-2026	INJECTION WELL AL TP - ISSUED FOR BID

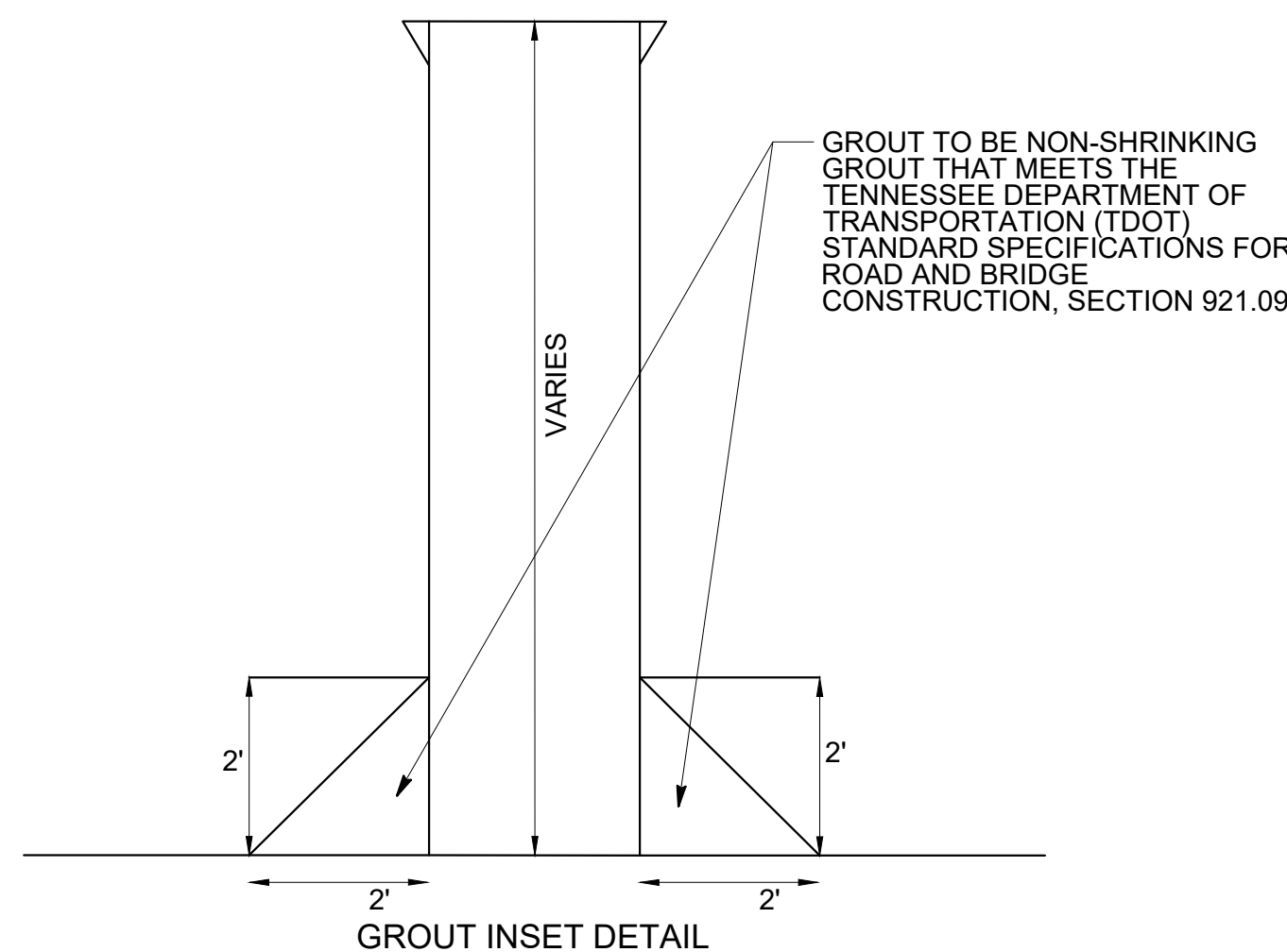
C2.03
 FILE NO. 3741603



2 STONE FILTER RING
C7.05 SCALE: N.T.S.

- NOTE:
- CMP TO BE PERFORATED BY MANUFACTURER BEFORE COATING PROCESS.
 - HOLES ABOVE GROUND ELEVATION TO BE 1" DIAMETER AND 1/2" BELOW GROUND ELEVATION. HOLES TO BE PLACED EQUALLY SPACED AROUND THE PIPE. THE NUMBER OF HOLES PER ROW SHALL BE 16. THE ROWS BE VERTICALLY SPACED 6" CENTER TO CENTER.
 - CMP AND FITTINGS: TYPE III WITH CLASS PERFORATIONS PER ASTM A760 (AASHTO M36) ALUMINUM COATED.

EXCAVATED OPENING SECTION



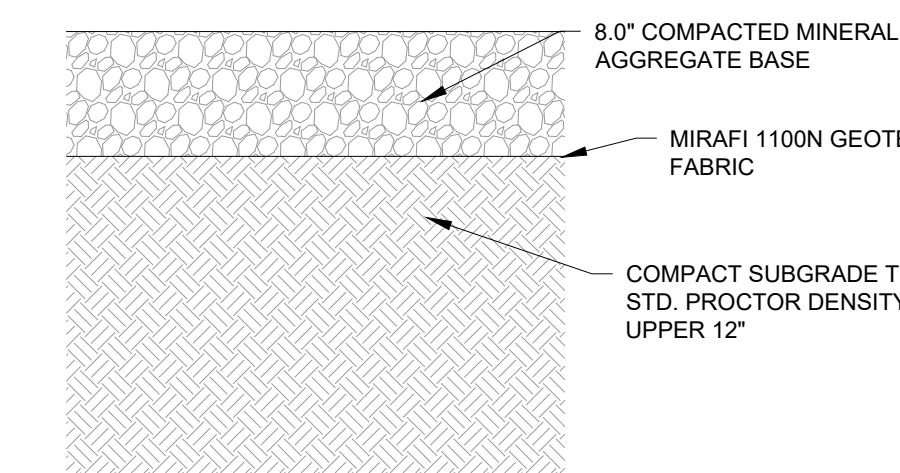
1 SINKHOLE REPAIR DETAIL
C7.05 SCALE: N.T.S.

TABLE OF DIMENSIONS AND QUANTITIES FOR HOOD GATE

'A' BARS 5/8" DIAMETER										ANTIVORTEX BAFFLE PLATE									
H	R	X	Y	S	O	TOTAL LENGTH	NO. REQ'D	N	L	P	F	V							
INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES		INCHES	INCHES	INCHES	INCHES	INCHES							
36" DIAMETER CORRUGATED METAL RISER																			
21	12-1/2	21	37-5/8	3	39-1/2	15'9"	32	8-21/32	7'-6"	30	30	10							
'B' BARS 5/8" DIAMETER													'C' BARS 5/8" DIAMETER		'D' BARS 5/8" DIAMETER		'E' BARS 5/8" DIAMETER		TOP PLATE DIAM
NO. REQ'D	R	LENGTH	NO. REQ'D	R	LENGTH	NO. REQ'D	R	LENGTH	NO. REQ'D	R	LENGTH	NO. REQ'D	R	LENGTH	DIAM				
INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES				
36" DIAMETER CORRUGATED METAL RISER																			
2	38-3/8	121-1/2	1	19	119-5	1	38-3/8	486	1	19-1/4	129	4							

- NOTE:
- WELD (4) MARK 'A' BARS TO BAFFLE PLATE AND TOP PLATE. WELD MARK 'C' AND MARK 'D' BARS TO (4) MARK 'A' BARS. WELD REMAINING MARK 'A' BARS TO MARK 'B', MARK 'C', AND MARK 'D' BARS TO TOP PLATE.
 - THE TRASH RACK AND ANTIVORTEX BAFFLE PLATE MAY BE FABRICATED AS A UNIT. OR TRASH RACK MAY BE FABRICATED IN IDENTICAL HALVES AND ATTACHED TO THE BAFFLE PLATE WITH 1/2" DIAM. U BOLTS SPACED APPROXIMATELY 12 INCHES CENTER TO CENTER ALONG THE VERTICAL AND INCLINED SECTIONS OF THE MARK 'A' BARS NEXT TO THE PLATE.
 - ALL BARS ARE SMOOTH ROUND BARS.
 - COAT WITH RUST INHIBITIVE PAINT.

HOODED GATE DETAIL

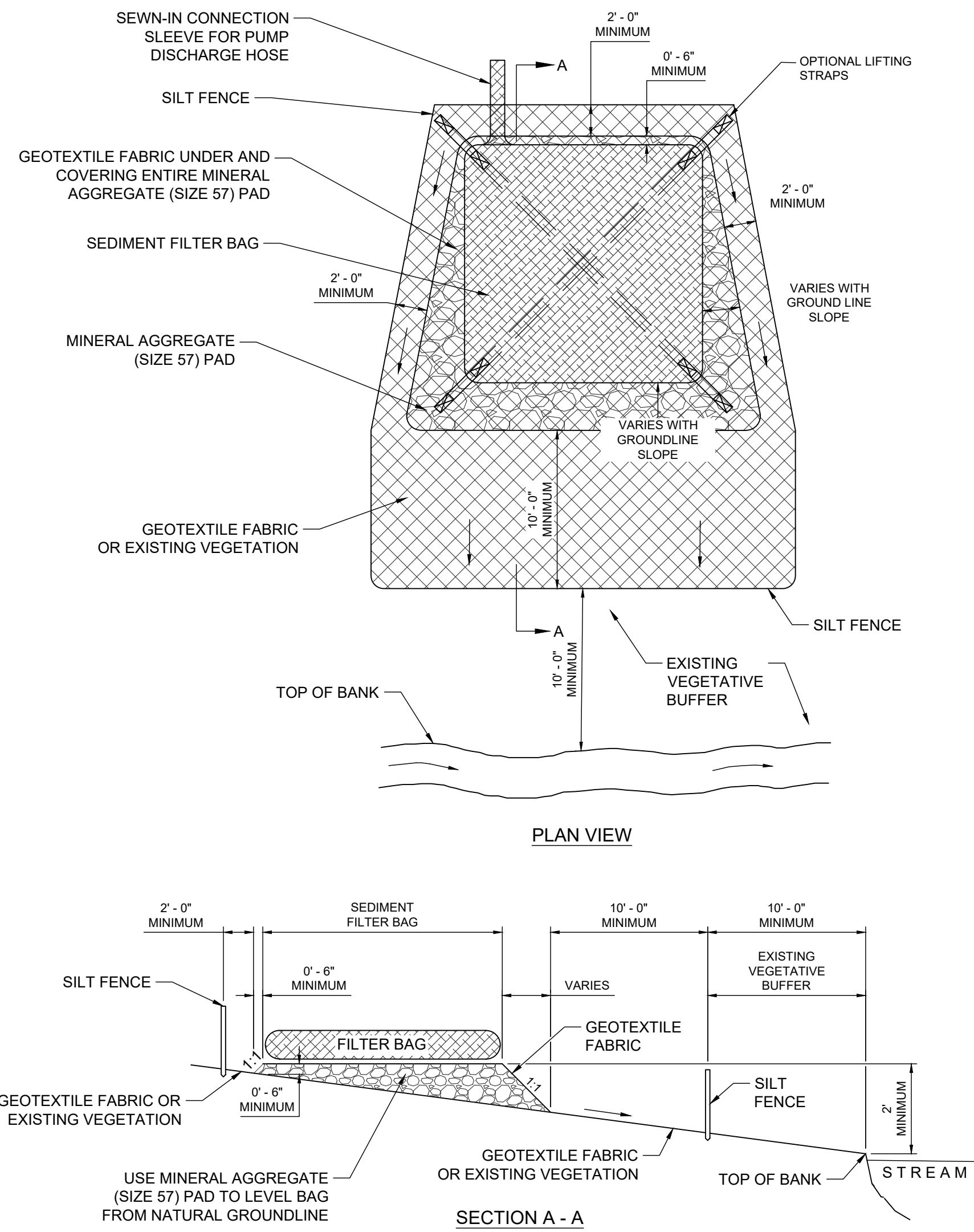


- NOTES:
- MINERAL AGGREGATE TYPE "A" GRADE "D" IN ACCORDANCE WITH TDOT STANDARDS.
 - DENSITY REQUIREMENTS FOR COMPACTION PER TDOT STANDARDS.

3 GRAVEL DRIVE REPAIR
C7.05 SCALE: N.T.S.

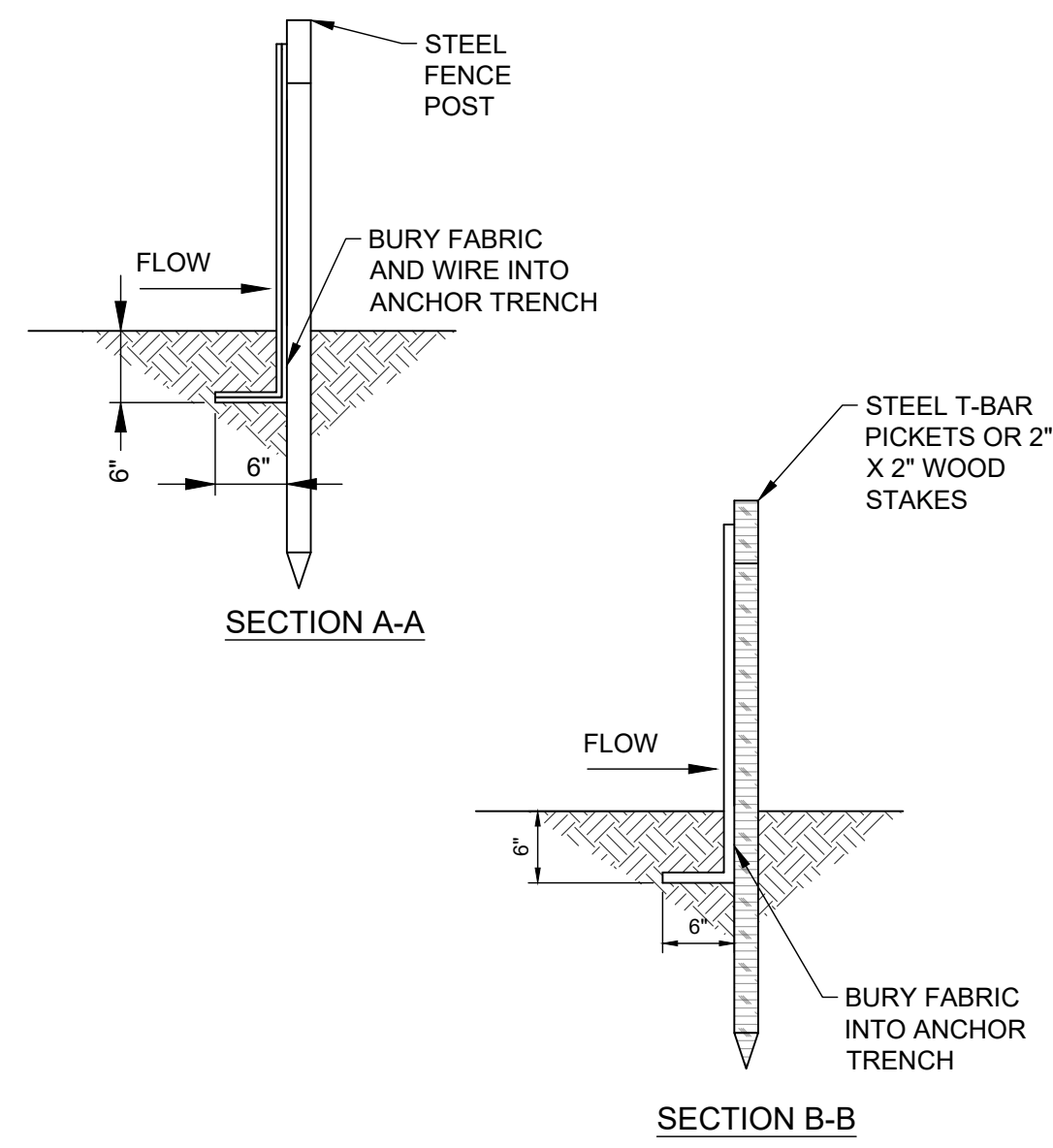


REV.	OR	CHK.	DATE	DESCRIPTION
0	DM	AW	03-27-2008	INJECTION WELL A11F - ISSUED FOR BID

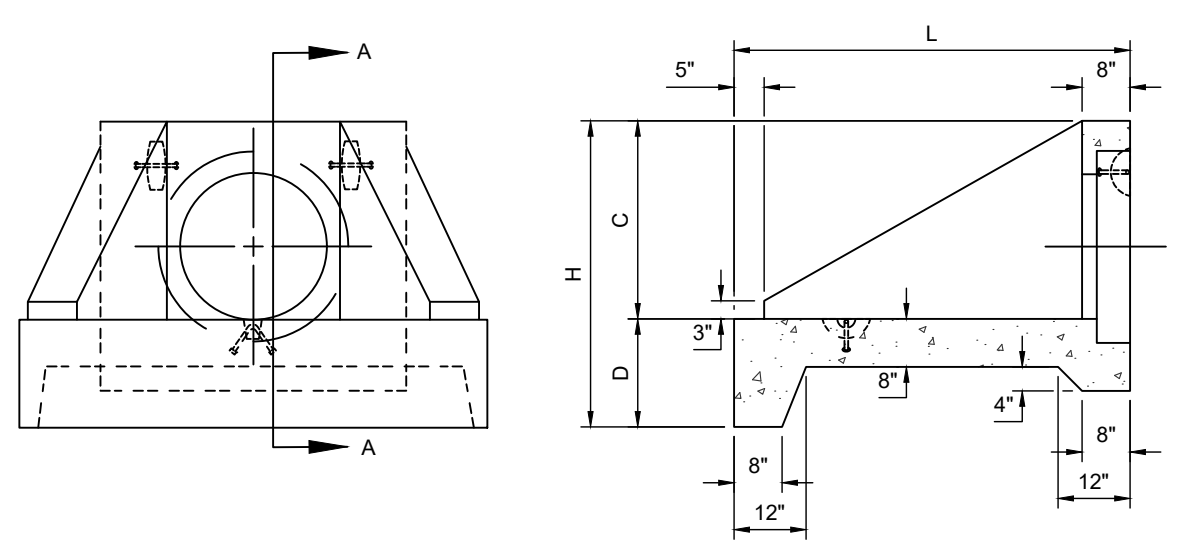


1 SEDIMENT FILTER BAG
C7.06 SCALE: N.T.S.

- NOTES:**
1. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION FOR GEOTEXTILES ASHTO DESIGNATION: M288, SEDIMENT CONTROL, SELF SUPPORTED.
 2. THE FILTER MATERIAL SHALL BE STAPLED TO THE STAKES. HEAVY DUTY WIRE STAPLES WITH 1/2 INCH WIDTH SHALL BE USED AND EVENLY SPACED WITH AT LEAST FOUR PER POST FOR SILT FENCES AND THREE (3) PER POST FOR FILTER BARRIERS. FILTER MATERIAL SHALL NOT BE STAPLED TO EXISTING TREES.
 3. MINIMUM (2" NOMINAL X 2" NOMINAL) - (1.5" ACTUAL X 1.5" ACTUAL) (2.25 SQ. IN.) HARDWOOD POST (OAK OR HICKORY) - LENGTH 48" OR MINIMUM 1.33 LB./FT. STEEL POST (STD. OR U SECTION).
 4. WHEN STEEL POSTS ARE USED THEY SHALL HAVE A PROTECTION FOR FASTENING WIRE TO THEM. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST FIVE PER POST.
 5. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN 12" DEEP.
 6. INSTALL FENCE ALONG CONTOUR (NEVER UP AND DOWN SLOPE).
 7. SILT FENCE SHALL BE MAINTAINED UNTIL CONTRIBUTING AREA IS STABILIZED WITH PAVEMENT OR VEGETATION. ALL FENCING SHALL BE REMOVED AFTER STABILIZATION AND DISPOSED OF IN AN APPROVED LANDFILL.



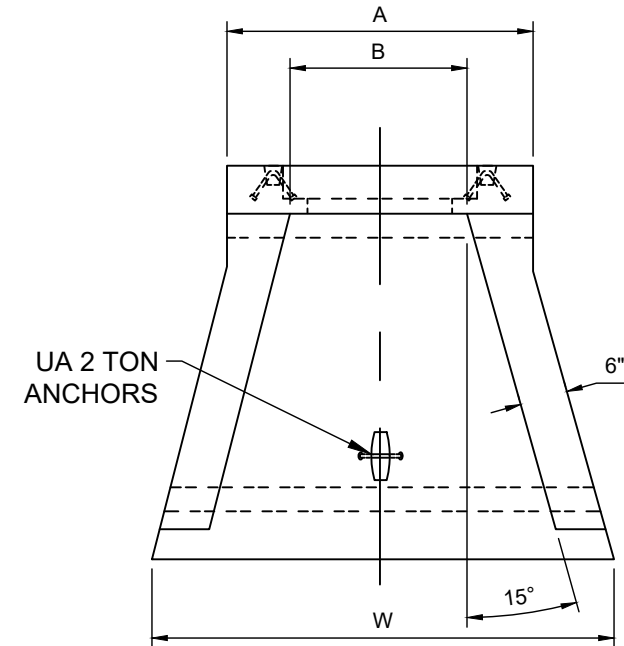
2 SILT FENCE
C7.06 SCALE: N.T.S.



- 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



3 HEADWALL DETAIL
C7.06 SCALE: N.T.S.

REVISION INFORMATION

REV.	OR	CHK.	DATE	DESCRIPTION
0	DM	AW	05-27-2008	INJECTION WELL ALTP - ISSUED FOR BID