

CONTRACTOR NOTES:

- 1. THE BOUNDARY INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY MOORE BASS CONSULTING, INC., DATED 3/10/23
2. THE TOPOGRAPHIC INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY NEWTON COUNTY GIS/ OTHER SURVEY INFORMATION
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. THE ELEMENTS AS SHOWN ON THESE CONSTRUCTION DOCUMENTS ARE TO BE CONSIDERED AS APPROXIMATE. THIS INCLUDES UNDERGROUND UTILITY INFORMATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, AND OWNER'S REPRESENTATIVE, IN WRITING, UPON DISCOVERY OF ANY TYPE OF DISCREPANCY.
4. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND STANDARDS OF THE LOCAL ISSUING AUTHORITY (LIA), AND/OR THE GEORGIA D.O.T. (DEPARTMENT OF TRANSPORTATION), WHETHER OR NOT REVIEW COMMENTS WERE MADE. THE MORE STRINGENT SHALL APPLY. IN THE EVENT THERE IS A CONFLICT BETWEEN REGULATIONS, THE ENGINEER SHALL COLLABORATE WITH THE LIA TO DETERMINE THE APPLICABLE REGULATION.
THE LIA FOR FOR THIS PROJECT IS: CITY OF COVINGTON, GA
5. CONTRACTORS RESPONSIBILITY: ALL NECESSARY PERMITS AND LICENSES TO PERFORM THE WORK AS SHOWN AND NOTED HEREON SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION FROM THE LOCAL ISSUING AUTHORITY, AS WELL AS ANY OTHER REGULATORY AGENCIES WITH APPLICABLE JURISDICTION OVER THE PROJECT. CONSTRUCTION EFFORTS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PRIOR TO ORDERING PROJECT MATERIALS, THAT THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE PROJECT ENGINEER, INCLUDING, BUT NOT LIMITED TO, THE PERMITTED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
7. DO NOT BREAK THESE DOCUMENTS INTO PARTS OR SUB-PARTS. THE SITE DESIGN PROFESSIONAL AND OWNER ASSUMES NO RESPONSIBILITY FOR THE SEPARATION OF THESE DOCUMENTS BY ANY ENTITY INVOLVED WITH CONSTRUCTION OPERATIONS ON, OR FOR THIS PROJECT. THE GENERAL CONTRACTOR, AND ALL ASSOCIATED SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR ALL OF THE WORK RELATED TO THEIR TRADES WHEREVER IT MAY BE SHOWN WITHIN THE CONSTRUCTION DOCUMENTS.
8. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND WAYS, MEANS AND METHODS OF CONSTRUCTION.
9. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT. READY TO USE. FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB.
10. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE MAY CAUSE THE WORK TO BE UNACCEPTABLE.
11. CHECK ALL BUILDING DIMENSIONS AND COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR FIELD STAKING.
12. PERFORM ALL WORK IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
13. NOTIFY INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO CONSTRUCTION.
14. THE OWNER/DEVELOPER AND ENGINEER HAVE REVIEWED THE APPROPRIATE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING DEVELOPMENT ACTIVITIES ADJACENT TO FLOOD PLAINS AND WETLANDS, AND HAVE DETERMINED THAT THIS DEVELOPMENT PLAN SATISFIES THE STANDARDS PRESENTED IN APPLICABLE REGULATIONS.
15. THE OWNER SHALL DIRECT THE CONTRACTOR AS TO WHAT EXISTING VEGETATION ON SITE SHALL BE REMOVED BEYOND THE CLEARING LIMITS AS SHOWN AND NOTED HEREON. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN PROTECTING EXISTING TREES. COORDINATE ALL TREE REMOVAL WITH THE OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
16. DISCREPANCIES NOTED BETWEEN THE PLAN AND FIELD CONDITIONS: THE CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER'S REPRESENTATIVE IN WRITING, AS SOON AS POSSIBLE, OF ANY DISCREPANCIES NOTED BETWEEN THE PLAN AND FIELD CONDITIONS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DISCREPANCIES WHICH ARE NOT REPORTED. ALL WORK SHALL ADHERE TO THE LOCAL ISSUING AUTHORITY'S STANDARDS AND SPECIFICATIONS DURING CONSTRUCTION OF THE PROJECT.
17. CONTRACTOR MODIFICATIONS/ADJUSTMENTS/CHANGES: THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER'S REPRESENTATIVE IN WRITING, AS SOON AS POSSIBLE, OF ANY MODIFICATIONS, ADJUSTMENTS OR CHANGES MADE TO THE CONSTRUCTION DOCUMENTS TO REFLECT CHANGED FIELD, OR OTHER CONDITIONS.
18. ADDITIONAL INFORMATION OR INSTRUCTION: THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER'S REPRESENTATIVE IN WRITING, AS SOON AS POSSIBLE, IF ADDITIONAL INFORMATION, OR INSTRUCTION IS NEEDED TO APPROPRIATELY CLARIFY THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
19. CONFINE OFF-SITE ACTIVITIES TO EXISTING RIGHTS OF WAY AND EASEMENTS.
20. ALL PRIVATE AND PUBLIC PROPERTY, WHICH IS OFF-SITE, OR IN EASEMENTS ON-SITE, THAT IS AFFECTED BY THIS WORK, SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION. COST TO BE INCIDENTAL TO CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
21. PERFORM ALL WORK IN CITY, COUNTY, STATE, AND FEDERAL RIGHTS-OF-WAY IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
22. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER'S REPRESENTATIVE. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS OWN FORCES OR THOSE OF HIS SUB-CONTRACTORS TO THE OWNER'S PROPERTY, NEIGHBORING PROPERTY, EXISTING UTILITIES OR OTHER MISCELLANEOUS DAMAGE.
24. PROVIDE AND MAINTAIN OFF-STREET PARKING THROUGHOUT CONSTRUCTION IN AREAS DESIGNATED BY THE OWNER.
25. PROVIDE SIGNING AND STRIPING ACCORDING TO LOCAL JURISDICTION SPECIFICATIONS.
26. UNLESS INDICATED OTHERWISE ON THE PLANS, REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS, TREES AND OTHER DEBRIS, WITHIN THE LIMITS OF THE WORK, FROM THE SITE AND DISPOSE OF IN AN APPROVED LANDFILL. DO NOT BURY ANY WASTE MATERIAL ON SITE.
27. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
28. COORDINATE WITH BUILDING PLUMBING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
29. PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY WITHIN THE RIGHT-OF-WAY FOR THE PROTECTION AND THE SAFETY OF THE PUBLIC AND MAINTAIN THROUGHOUT CONSTRUCTION.
30. PAINT PAVEMENT MARKING, INCLUDING STANDARD HANDICAP SYMBOLS, PARKING STRIPING AND TRAFFIC ARROWS, ON PAVEMENT AT LOCATIONS SHOWN. SEE PAVEMENT MARKING DETAIL.
31. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.

FLOOD PLAIN NOTE:

AS SHOWN ON FEMA FLOOD INSURANCE RATE MAPS OF NEWTON COUNTY, GEORGIA COMMUNITY PANEL NUMBER 3217C0126D EFFECTIVE DATE 03/17/14. THIS PROPERTY IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE.

STREAM AND WETLAND NOTES:

THERE ARE NO STREAMS OR WETLANDS LOCATED ON THIS PROPERTY

STATE WATERS BUFFER NOTE:

THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. NO LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. ONCE THE FINAL STABILIZATION OF THE SITE IS ACHIEVED, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. PROVIDED, HOWEVER, THAT ANY PERSON CONSTRUCTING A SINGLE FAMILY RESIDENCE, WHEN SUCH RESIDENCE IS CONSTRUCTED BY OR UNDER CONTRACT WITH THE OWNER FOR HIS OR HER OWN OCCUPANCY, MAY THIN OR TRIM VEGETATION IN A BUFFER AT ANY TIME AS LONG AS PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM.

- 1. ALL UNDISTURBED BUFFERS SHALL BE FIELD LOCATED, STAKED AND FLAGGED OR MARKED WITH "TENZAR" OR SIMILAR TYPE OF FENCING, AND SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO GRADING.
2. EXISTING VEGETATION SHALL BE PRESERVED WITHIN ALL BUFFER AREAS.
3. BUFFER AREAS ARE NOT TO BE DISTURBED BY GRADING, PROPERTY IMPROVEMENTS OR CONSTRUCTION ACTIVITIES. ANY CONTEMPLATED DISTURBANCES SHALL FIRST BE BROUGHT TO THE ATTENTION OF THE LIA AND FORMAL APPROVAL SECURED PRIOR TO INITIATING ACTIVITY WITHIN THE REQUIRED BUFFER AREAS.

TREE PROTECTION NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARANCE AND DEMOLITION OF ANY EXISTING ELEMENTS WHICH ARE IN CONFLICT WITH PROPOSED NEW CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO BUILDINGS, FENCES, TREES, DRAINAGE STRUCTURES, POLES, PAVEMENTS, VEGETATION, SIGNAGE, AND OTHER MISCELLANEOUS SITE ELEMENTS.
2. UNLESS OTHERWISE DIRECTED, THE CONTRACTOR SHALL PROTECT ALL TREES SCHEDULED TO REMAIN AND FENCE THOSE WHICH MAY RISK DAMAGE FROM CONSTRUCTION EQUIPMENT OR WORK.
3. ALL TREES WHICH ARE TO BE REMOVED SHALL BE DONE SO IN A MANNER WHICH WILL NOT INJURE PLANT MATERIAL SCHEDULED TO REMAIN. STUMPS ARE TO BE COMPLETELY REMOVED AND HAULED OFF SITE. NO BURIAL OR BURNING WILL BE PERMITTED.
4. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: REMOVAL OF ASPHALT PAVING, EXISTING TREES, POWER LINES, GAS MAINS, WATER LINES, FIRE HYDRANTS, EXISTING SEPTIC TANKS AND DRAIN FIELDS, STORM PIPING, DRAINAGE STRUCTURES, FOUNDATIONS, STRUCTURES, SIDEWALKS, STRIPING, CURB AND GUTTER, LIGHT POLES, AND POWER POLES. COORDINATE WITH REMAINDER OF CONSTRUCTION DOCUMENTS PRIOR TO START OF CONSTRUCTION.
5. MOORE BASS CONSULTING DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE EXISTING UTILITY INFORMATION SHOWN IS CORRECT, ACCURATE OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE FIELD LOCATION AND PROTECTION OF ALL OVERHEAD AND SUBSURFACE LINES AND FACILITIES WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE EXCAVATION, DEMOLITION OR UTILITY WORK. FURTHER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION OF THE GAS LINE WITH THE ARCHITECT, INFORMATION DEPICTED ON THE PLAN IS FOR INFORMATIONAL PURPOSES FOR MEP ENGINEER AND THE APPROPRIATE UTILITY COMPANY.

TRAFFIC CONTROL NOTES:

- 1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AND MAINTAIN THE APPROPRIATE TRAFFIC CONTROL FOR ANY WORK PERFORMED ON PUBLIC R.O.W. ALL COMPONENTS OF THE TRAFFIC CONTROL PLAN, AND SIGNAGE AND STRIPING PLAN, MUST CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE M.U.T.C.D. LATEST EDITION.

LOCAL ISSUING AUTHORITY SPECIFIC NOTES:

STORM SEWER:

- 1. "ALL STORMWATER STRUCTURES LOCATED IN THE PUBLIC RIGHT-OF-WAY AND DIRECTLY CONNECTED TO THE PUBLIC RIGHT-OF-WAY MUST BE ON THE GEORGIA DEPARTMENT OF TRANSPORTATION'S QUALIFIED PRODUCTS LIST".
2. ALL STRUCTURES SHALL HAVE PAVED INVERTS.
3. "DRAINAGE PIPES AND CULVERTS SHALL BE BACKFILLED WITH MATERIALS THAT MEET THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR ROADWAY MATERIALS, SECTION 810, ROADWAY MATERIALS, CLASS I OR CLASS II SOILS. BACKFILLS WILL BE CONSTRUCTED IN SIX TO TWELVE INCH VERTICAL LAYERS AND THOROUGHLY COMPACTED. THE COMPACTED DRY WEIGHT PER CUBIC FOOT FOR EACH LAYER OF BACKFILL WILL BE AT LEAST NINETY-FIVE PERCENT (95%) OF THE MAXIMUM LABORATORY DRY WEIGHT PER CUBIC FOOT."

ELECTRICAL NOTES:

- 1. OWNER/DEVELOPER TO SIGN EASEMENTS AND PAY ANY INFRASTRUCTURE RELOCATION COST BEFORE START OF WORK.
2. IF THERE ARE INSTALLATION CHARGES, PAYMENT MUST BE MADE BEFORE START OF WORK.
3. OWNER/DEVELOPER IS REQUIRED TO INSTALL TWO (2) SCHEDULE 40 - 4 INCH PVC CONDUITS, AT A MINIMUM DEPTH OF 40 INCHES DEEP, FROM THE TRANSFORMER TO THE APPROVED POWER POLE OR UNDERGROUND CONNECTION LOCATION AT THE RIGHT OF WAY OF THE POWER EASEMENT.
4. OWNER/DEVELOPER TO FURNISH AND INSTALL TRANSFORMER CONCRETE PAD FOLLOWING CITY OF COVINGTON SPECIFICATIONS.
5. TRANSFORMER PLACEMENT ON SITE TO MEET CITY OF COVINGTON SPECIFICATIONS AND STATE FIRE CODE SPECIFICATIONS FROM THE BUILDING
6. OWNER/DEVELOPER IS REQUIRED TO INSTALL TEMPORARY POWER POLE. TEMPORARY POLE SPECIFICATIONS ARE ON THE CITY OF COVINGTON WEBSITE UNDER "ELECTRIC DEPARTMENT" OWNER/DEVELOPER TO FURNISH AND INSTALL TRANSFORMER CONCRETE PAD FOLLOWING CITY OF COVINGTON SPECIFICATIONS.
7. IF THE PROJECT SHOULD CAUSE RELOCATION OR REMOVAL OF ANY EXISTING POWER MAIN OR SERVICE, THERE WILL BE ASSOCIATED COST.

GRADING NOTES: PLACEMENT AND COMPACTION

SITE GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND INSTRUCTIONS SPECIFIED HEREIN, AND PER THOSE DETAILED WITHIN THE GEOTECHNICAL REPORT PREPARED BY PIEDMONT GEOTECHNICAL CONSULTANTS, INC.

- 1. GEOTECHNICAL SPEC'S DEPICTED HEREON ARE GUIDELINES ONLY AND SHOULD BE VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. RECOMMENDATIONS FROM A REGISTERED GEOTECHNICAL ENGINEER (IF ANY) SHALL SUPERSEDE THE SPEC'S REFERENCED HEREIN.
2. APPROPRIATE EROSION AND SEDIMENTATION CONTROLS, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO THE START OF GRADING OPERATIONS.
3. GROUND SURFACE PREPARATION: REMOVE VEGETATION INCLUDING GRASS, ROOTS, AND SURFACE ORGANICS, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERT. TO 2 HORIZ. SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER COMPACTION FOR PARTICULAR AREA CLASSIFICATION, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY.
4. ALL FILL AREAS MUST BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698).
5. BEFORE COMPACTION, MOISTEN AND AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST OR ICE.
6. PLACE BACKFILL AND FILL MATERIALS IN THIN, HORIZONTAL LOOSE LIFTS NOT MORE THAN 8 INCHES IN DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 6 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 96%.
7. COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OF FILL MAT'L TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF 6" BELOW BOTTOM OF FINAL GRADE.
8. MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MAT'L APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
9. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
10. SPREAD SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION. ASSIST DRYING BY DISCING, HARROWING, OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE.
11. QUALITY CONTROL TESTING DURING CONSTRUCTION: ALLOW GEOTECHNICAL TESTING SERVICE TO INSPECT AND APPROVE EACH SUB-GRADE AND BACKFILL OR FILL LAYER BEFORE FURTHER BACKFILL OR CONSTRUCTION WORK IS PERFORMED. TEST SHALL BE PERFORMED EVERY 10,000 SQ. FT. OF AREA PER ONE FOOT LIFT (OR AS DIRECTED BY A REGISTERED GEOTECHNICAL ENGINEER.
12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUBSURFACE SEEPAGE, OR SPRINGS DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUBSURFACE WATERS.
13. ALL CUT SLOPES SHALL BE NO STEEPER THAN 2:1. ALL FILL SLOPES AND POND SLOPES SHALL BE A MAXIMUM OF 3:1.
14. GRASS AND RIP RAP ALL OPEN DRAINAGE SWALES AS NECESSARY TO CONTROL EROSION.
15. STRIP AND STOCKPILE TOPSOIL. SPREAD 4" OF TOPSOIL ON LANDSCAPE AREAS AND REMOVE EXCESS TOPSOIL FROM SITE. PREPARE SUB GRADE FOR PAVEMENT AND CURBS AND BACK FILL CURBS AFTER CURB CONSTRUCTION.
16. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
17. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.

UTILITY NOTES:

- 1. CAUTION, UNDERGROUND SERVICE ALERT! THE CONTRACTOR SHALL TELEPHONE TOLL FREE 1-800-282-7411 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN AND NOTED ON THE APPROVED PLANS.
2. IN ORDER TO MORE ACCURATELY IDENTIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITIES PROTECTION SERVICE AT LEAST TWO WORKING DAYS PRIOR TO DIGGING. NON-MEMBER UTILITIES SHALL BE CONTACTED DIRECTLY.
3. UNDERGROUND UTILITY LINE LOCATIONS (IF ANY) ARE APPROX. ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. UTILITIES SHOWN ON THESE PLANS ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY ANY OR ALL UTILITY LOCATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
4. MISCELLANEOUS MAPPING NOTES:
A. UTILITIES SHOWN ARE LOCATIONS OF GROUND IDENTIFIABLE ITEMS. ADDITIONAL UTILITIES MAY EXIST ABOVE OR BELOW THE GROUND. THE SURVEYOR ACCEPTS NO RESPONSIBILITY FOR THE COMPLETENESS OF THIS DATA.
B. THIS PROPERTY IS SUBJECT TO ALL RIGHT-OF-WAYS & EASEMENTS SHOWN OR NOT SHOWN, RECORDED OR NOT RECORDED.
5. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY ENTITY PRIOR TO THE START OF ANY CONSTRUCTION.
6. THE CONTRACTOR SHALL REMOVE AND ABANDON EXISTING UTILITIES ONLY AFTER APPROVAL FROM ALL INTERESTED PARTIES. THESE FACILITIES MAY INCLUDE, BUT NOT BE LIMITED TO: EXISTING ON-SITE DRAINAGE PIPING, ON-SITE PRIVATE ELECTRICAL LINES AND APPURTENANCES, ABANDONED EROSION CONTROL DEVICES AND STRUCTURES. THE CONTRACTOR SHALL COORDINATE ANY AND ALL ABANDONMENT AND/OR RELOCATION WITH THE APPROPRIATE UTILITY COMPANIES OR ENTITY. ANY DISPOSAL OF SAID FACILITIES SHALL BE DONE IN ACCORDANCE WITH LOCAL UTILITY AND/OR GOVERNMENTAL REGULATIONS. RELOCATION AND/OR ABANDONMENT OF SAID FACILITIES AND/OR UTILITIES SHALL BE DONE AT THE EXPENSE OF THE OWNER/DEVELOPER. PERMITS (IF ANY) SHALL BE OBTAINED BY THE CONTRACTOR AND/OR OWNER/DEVELOPER.
7. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY UTILITIES THAT ARE REQUIRED BY GOVERNING REGULATORY AGENCIES.

EROSION & SEDIMENT CONTROL NOTES:

- 1. AREA TO BE DISTURBED: ± 2.63 ACRES.
2. NOTICE: 24 HOUR CONTACT PERSON: TIM STEWART (706) 669-2799
3. PROVIDE NECESSARY DIVERSION DITCHES TO CONTROL AND DIRECT RUNOFF WATER DURING GRADING OPERATIONS. ROUTE TO STRAW BALE SILT BARRIERS OR SILT FENCES.
4. SEED AND STRAW ALL SLOPES AND OTHER GRADED AREAS NOT TO BE COVERED BY PAVEMENT AND BUILDINGS WITHIN 10 DAYS OF DISTURBANCE.
5. SEED OR SOD SIDE SLOPES OF ALL SWALES AND DITCHES IMMEDIATELY UPON COMPLETION.
6. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AT ALL TIMES UNTIL EARTH STABILIZATION HAS BEEN ACHIEVED. REMOVE ALL TEMPORARY DEVICES AFTER SITE IS STABILIZED.
7. CONSTRUCTION EXIT STONE SIZE TO BE A.S.T.M. 0448, SIZE #1 (1-1/2" TO 3-1/2" DIAMETER) WITH A MIN. PAD THICKNESS OF 6".
8. CONSTRUCTION EXIT TO BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.
9. EROSION CONTROL WILL BE CONSTRUCTED AS REQUIRED BY PROJECT ENGINEER OR THE LOCAL CITY OR COUNTY GOVERNMENTAL AGENCY, IN ACCORDANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
10. ALL OPEN DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 10 SQUARE YARDS OF 40 LB. STONES SHALL BE PLACED AT ALL DOWN-STREAM HEADWALLS OR AT OUTLET OF FLUMES.
11. ALL SILT BARRIERS MUST BE PLACED BEFORE ANY CLEARING. NO CONSTRUCTION SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED AND INSPECTOR APPROVED.
12. FREQUENT INSPECTIONS AND REPAIR OF EROSION AND SEDIMENT CONTROL PRACTICES (INCLUDING VEGETATIVE COVER) IS TO BE DONE BY THE GENERAL CONTRACTOR.
13. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
14. ALL MEASURES SHALL BE EMPLOYED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
15. SILT FENCES WILL BE INSTALLED AT TOE OF ALL FILL SLOPES DUE TO ROAD CONSTRUCTION.
16. PLEASE REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEET FOR ADDITIONAL NOTATIONS AND MISCELLANEOUS DETAILS.
17. NOTICE! THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
18. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION DUE TO CONDITIONS NOT SHOWN ON PLANS.
19. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES MAY RESULT IN CONSTRUCTION BEING HALTED.
20. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, FOLLOWING RAINFALL AND REPAIRED BY CONTRACTOR OR OWNER AND DOCUMENTATION. FORWARDED TO THE COUNTY ON A WEEKLY BASIS OR AFTER EACH RAINFALL EVENT.
21. ALL SILT FENCING SHALL COMPLY WITH GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A LETTER OF WARRANTY THAT MATERIALS MEET THESE SPECIFICATIONS AND THAT THE FABRIC IS ON GA D.O.T. Q.P.L. #36.
22. TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED WITHIN 10 DAYS OF REACHING FINAL GRADE.
23. STORM DRAIN SYSTEMS SHALL BE MAINTAINED CLEAN AND FREE OF SILT AND DEBRIS.
24. A RESPONSE TO A NOTIFICATION OF NONCOMPLIANCE OR INADEQUATE MEASURES SHALL BE MADE WITHIN 24 HOURS AFTER RECEIVING SUCH NOTIFICATION, UNLESS OTHERWISE SPECIFIED FOR CONDITIONS DEEMED CRITICAL.
25. PERMANENT VEGETATION SHALL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.
26. IMPLEMENTATION AND MAINTENANCE:
A) IMPLEMENTATION: NOTIFY THE DEPARTMENT OF ENGINEERING 24 HOURS PRIOR TO COMMENCING WORK. NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL APPROVED EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO ALL FEATURES OF THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO ROAD AND UTILITY INSTALLATIONS AS WELL AS TO THE PROTECTION OF INDIVIDUAL LOTS.
B) MAINTENANCE: EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
27. SEEDING SPECIFICATIONS AND APPLICATION RATES ARE AVAILABLE AT THE NATIONAL RESOURCES CONSERVATION SERVICE (NRCS), FOR TEMPORARY AND/OR PERMANENT SEEDING A VARIETY SUBSTITUTED FOR THAT SHOWN ON THE PLANS MAY BE UTILIZED WITH THE APPROVAL OF THE LOCAL GOVERNMENTAL AGENCY AND THE OWNER.
28. THE RECEIVING WATER FOR THE PROJECT IS AN UNNAMED TRIBUTARY OF DRIED INDIAN CREEK.
29. NOTE: ANY BARE AREAS LEFT IDLE FOR 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.
30. ALL DISTURBED AREAS SHALL BE RESEDED OR SEEDED IN ACCORDANCE WITH THE LATEST GEORGIA SOIL AND WATER CONSERVATION COMMISSION SPECIFICATIONS FOR GRASSING, OR AS DIRECTED BY PROJECT ENGINEER, OR AS DIRECTED BY THE LIA INSPECTOR.



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T & M HEATING & AIR
10100 ROBERTS WAY
COVINGTON, GA 30014
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

PROJECT NAME

REVISIONS

REVISED PER CITY COMMENTS

REVISED PER CITY COMMENTS

REVISED PER CITY COMMENTS

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A3250.0001-CVR-DETAILS

DATE 7/10/2023

CONTRACT # A3250.0001

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REGISTERED PROFESSIONAL ENGINEER

LEVEL 2 CERTIFICATION
CERT #0000046834 EXP. 08/01/25

SHEET TITLE

GENERAL NOTES SHEET

SHEET

1.1



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MONROE, GA 30656

REVISIONS

NO.	DATE	DESCRIPTION
1	9/12/2023	REVISED PER CITY COMMENTS
2	10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-CVR-DETAILS

DATE 7/10/2023

CONTRACT # A3250.0001

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LSP #1175



LEVEL 2 CERTIFICATION
CERT. #0000045634 EXP. 08/31/25

SHEET TITLE

CITY OF COVINGTON
GENERAL NOTES
SHEET

SHEET

1.2



City of Covington
Water System Construction
General Notes

- All water system construction must follow the current City of Covington Water and Sewer System Standards and Specifications.
- All 6" - 10" diameter PVC water mains shall meet the requirements of AWWA C-900, latest revision for 150 psi working pressure (DR 18). All water mains 12" in diameter or larger shall be ductile iron pipe.
- Ductile Iron Pipe (D.I.P.) is required for water mains:
 - 12" in diameter or larger
 - Crossing sanitary sewers
 - Under all stream crossings and over or under all storm sewers
 - Under all roads and intersections and inside casings
 - At all locations with working pressure above 125 psi (generally below elevation 700 MSL)
 - At all other locations specified by the City
- All line valves shall be marked by concrete valve markers.
- A concrete valve marker is to be placed directly above the plug on all dead-end water mains.
- Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the Designer of any anticipated problems or need for contract changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense.

- All service lines under pavement shall be encased in PVC casing with a minimum diameter of 1 1/2", extending a minimum of 3 feet beyond the pavement on each side of the road.
- Concrete blocking shall be placed at all bends and tees.
- The developer shall obtain a Land Disturbing Permit from the City Engineering Department and notify the water system inspector 48 hours before beginning construction.
- The developer shall install water services up to and including meter boxes and curb stops. Meters will be set by the City after the building permit is issued.
- Water mains shall be installed with a minimum of 48" cover
- Locator wire shall be placed in the trench above the PVC water main before backfilling trench.
- Flow Test Information:

Static Pressure: _____ psi at _____ ft.

Recorded Flow: _____ GPM with _____ psi residual pressure.

Maximum Elevation in Development _____ m.s.l. (to be determined by developer.)

Flow Available at Max. Elevation: _____ GPM with 20 psi residual pressure.

Size of water main at point of connection to project: _____ inches

Date of flow test: _____

City of Covington
Sanitary sewer system construction
General Notes

- All sanitary sewer system construction must follow the current City of Covington Water & Sewer Standards and Specifications.
- For D.I.P. sewer lines, the minimum wall thickness for 4" - 12" diameter pipe shall be Pressure Class 350; minimum wall thickness for 14" - 20" diameter pipe shall be Pressure Class 250; minimum wall thickness for 24" diameter pipe shall be Pressure Class 200; minimum wall thickness for pipe larger than 24" in diameter shall be Pressure Class 150. Wall thicknesses greater than the minimums called for above may be required due to greater depths or varying bedding requirements. Class C bedding is the minimum allowed.
- All Polyvinyl Chloride (PVC) sewers 6" to 15" in diameter shall meet the requirements for minimum wall thickness as specified under SDR 35 in ASTM D3034, latest revision. PVC sewers that are 18" in diameter shall have a minimum wall thickness as specified under T-1 in ASTM F679, latest revision. PVC sewers with more than 12 feet of cover may require wall thicknesses greater than SDR 35 or T-1. PVC is not allowed for sewers greater than 18" in diameter or more than 14 feet of cover.
- Ductile Iron Pipe is required for sanitary sewer lines:
 - Over or under all storm sewers
 - Crossing water mains
 - Under all stream crossings
 - With less than 4' of cover or over 14 feet of cover
 - With 15% or greater slope
 - Were velocities exceed 10 ft/sec
 - Inside casings
 - At all other locations specified by the City
- Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the designer of any anticipated problems or need for design changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense.
- All sewer service laterals shall have a minimum diameter of 6".
- The Developer shall obtain a permit from the City and notify the sewer system inspector 48 hours before beginning construction.
- This project is located in land lots _____, _____ district of Newton County, Georgia.
- The existing land use is (describe current land use, such as agricultural, commercial, etc.).
- The Developer is: (name, address, and telephone number).
- 24-Hour local contact for erosion and sediment control is (name and 24 hour telephone numbers).
- This project construction area is acres.

3-4

- This project consists of: (describe sanitary sewer work to be done, including length of pipe and sizes and number of manholes).
- Adjacent areas include (describe development style of area surrounding project.).
- The escape of sediment from the site shall be prevented by the installation of erosion control measures and practices prior to, or concurrent with, land disturbing activities and erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.
- All erosion and sediment control measures will be checked daily and any deficiencies noted will be corrected by the end of the day.
- This property (is / is not) located within a 100 year flood plain as shown on F.I.R.M. Community Panel Number _____, dated _____.
- All fill slopes will have silt fence at the toe of the slopes.
- A 25 to 35 foot undisturbed vegetative buffer adjacent to all running streams and creeks will be left and maintained.
- Clearing will be kept to an absolute minimum. Vegetation and mulch will be applied to applicable areas immediately after grading is complete. Land disturbing will be scheduled to limit exposure of bare soils to erosive elements.
- Construction activities will be performed in compliance with all applicable laws and regulations.
- All marketable timber will be salvaged. Top soil will be salvaged, stock piled and spread on areas to be vegetated. Trees outside of the clearing line will be protected from damage by appropriate markings. Supplemental vegetation will be established.
- Cleanout of sediment control structures will be accomplished in accordance with the sediment disposal accomplished by spreading on site. Sediment barriers will remain in place until sediment contributing areas are stabilized.
- Contractor is responsible for staking the alignment of the proposed pipeline prior to pipe installation. If a conflict should arise the contractor shall notify the designer at that time.
- All excavated dirt shall be placed on the high side of the trench away from any creeks.
- Any fill dirt over the pipe shall be graded to prevent ponding.
- The construction easement represents the limits of clearing for the complete job. The contractor shall not clear beyond this limit.
- There shall be no change in preconstruction contours (excess material must be removed to an upland disposal area).
- Bank stabilization (rip-rap) shall only be placed where necessary for erosion prevention. No rip-rap shall be placed in excess of the minimum needed for erosion protection.
- No rip-rap shall be placed in any wetland area or in any location or manner so as to impair surface water flow into or out of any wetland area.

3-5

- Discharges of dredged or fill materials into the creek shall be avoided or minimized through use of other practical alternatives.
- Discharges of fill in spawning areas during spawning seasons shall be avoided.
- Discharges of fill shall not restrict or impede the movement of aquatic species indigenous to the waters or the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound water).
- Discharges of fill in wetland areas shall be avoided.
- Heavy equipment in wetland areas shall be avoided.
- Discharging fill into breeding areas for migratory waterfowl shall be avoided.
- All temporary fills shall be removed in their entirety.
- No person shall commence, perform, or engage in blasting or in excavating with mechanized excavating equipment on any tract or parcel of land in this county until the person planning the blasting or excavating has given 48 hours' notice by submitting a locate request to the utilities protection center, beginning the next business day after such notice is provided, excluding hours during days other than business days. Any locate request received by the utilities protection center after business hours shall be deemed to have been received by the utilities protection center the next business day.

3-6

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REVISIONS	REVISIONS
8/12/2023	REVISED PER CITY COMMENTS
10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-CD-EX COND.

DATE 7/10/2023

CONTRACT # A3250.0001

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LEVEL 2 CERTIFICATION

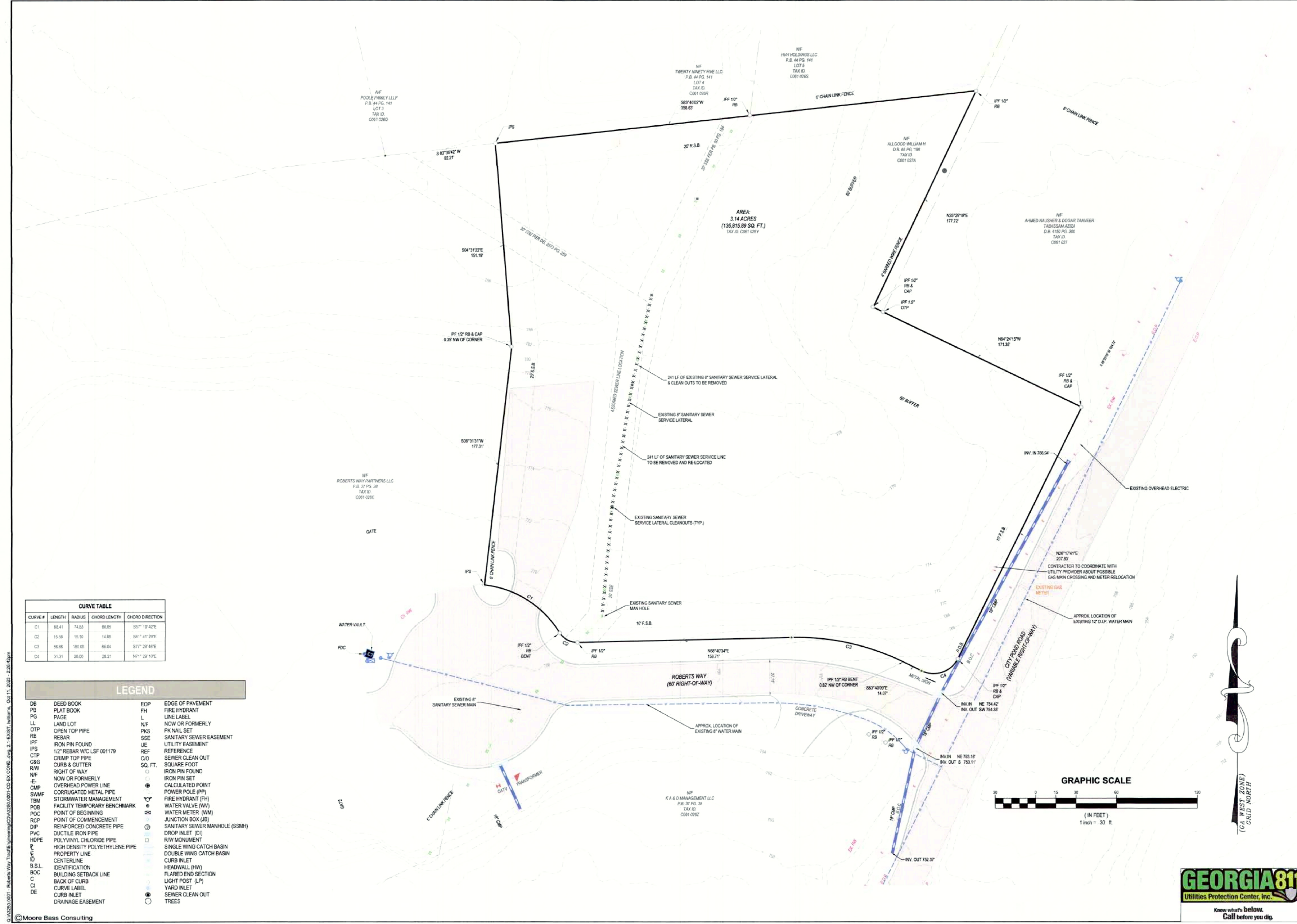
CERT #0000045534 EXP. 08/01/25

SHEET TITLE

EXISTING CONDITIONS & DEMOLITION PLAN

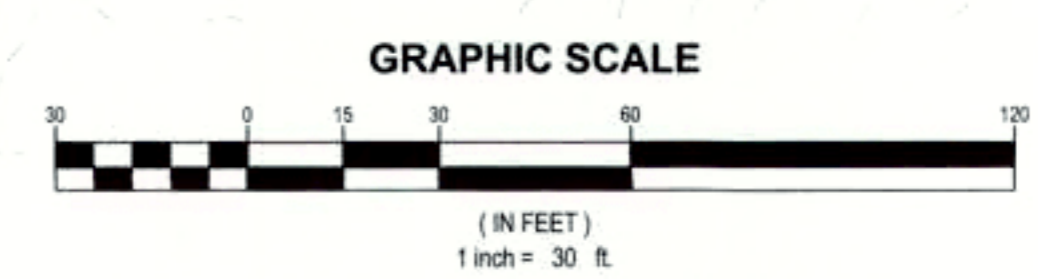
SHEET

2.0



CURVE #	LENGTH	RADIUS	CHORD LENGTH	CHORD DIRECTION
C1	88.41	74.88	86.05	S57°19'42"E
C2	15.56	15.10	14.88	S61°41'29"E
C3	86.88	190.00	86.04	S77°29'49"E
C4	31.31	20.00	28.21	N71°29'10"E

DB	DEED BOOK	EOP	EDGE OF PAVEMENT
PB	PLAT BOOK	FH	FIRE HYDRANT
PG	PAGE	L	LINE LABEL
LL	LAND LOT	N/F	NOW OR FORMERLY
OT	OPEN TOP PIPE	PKS	PK NAIL SET
RB	REBAR	SSE	SANITARY SEWER EASEMENT
IPF	IRON PIN FOUND	UE	UTILITY EASEMENT
IPS	1" REBAR W/IC LSF 001179	REF	REFERENCE
CTP	CRIMP TOP PIPE	C/O	SEWER CLEAN OUT
C&G	CURB & GUTTER	SQ. FT.	SQUARE FOOT
R/W	RIGHT OF WAY	○	IRON PIN FOUND
N/F	NOW OR FORMERLY	○	IRON PIN SET
OMP	OVERHEAD POWER LINE	●	CALCULATED POINT
SWMF	CORRUGATED METAL PIPE	●	POWER POLE (PP)
TBM	STORMWATER MANAGEMENT	●	FIRE HYDRANT (FH)
POB	FACILITY TEMPORARY BENCHMARK	●	WATER VALVE (WV)
POC	POINT OF BEGINNING	●	WATER METER (WM)
RCP	POINT OF COMMENCEMENT	●	JUNCTION BOX (JB)
DIP	REINFORCED CONCRETE PIPE	●	SANITARY SEWER MANHOLE (SSMH)
PVC	DUCTILE IRON PIPE	●	DROP INLET (DI)
HDPE	POLYVINYL CHLORIDE PIPE	●	R/W MONUMENT
HDP	HIGH DENSITY POLYETHYLENE PIPE	●	SINGLE WING CATCH BASIN
PL	PROPERTY LINE	●	DOUBLE WING CATCH BASIN
CL	CENTERLINE	●	CURB INLET
B.S.L.	IDENTIFICATION	●	HEADWALL (HW)
B.O.C.	BUILDING SETBACK LINE	●	FLARED END SECTION
C	BACK OF CURB	●	LIGHT POST (LP)
CI	CURVE LABEL	●	YARD INLET
DE	CURB INLET	●	SEWER CLEAN OUT
	DRAINAGE EASEMENT	●	TREES



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#36 INITIAL SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE SITE INSPECTOR PRIOR TO LAND DISTURBING ACTIVITIES.
2. INITIAL EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON-SITE.
3. PROVIDE AND MAINTAIN OFF-STREET PARKING ON-SITE.
4. STAGING AREAS, MATERIAL STORAGE, CONCRETE WASHOUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL NOT BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
5. THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED AND MAINTAINED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY.
6. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR CROSSING ANY PUBLIC RIGHT-OF-WAY.
7. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY DURING ALL PHASES OF CONSTRUCTION.
8. IMMEDIATELY AFTER THE PLACEMENT OF THE CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.
9. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE KEPT ERRECT AT ALL TIMES AND REPAIRED AS NECESSARY.
10. SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TIE OFF OF ALL CUT AND FILL SLOPES.
11. PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED.
12. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
13. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
14. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON PLANS AS ACCESS IS OBTAINED DURING CLEARING.
15. INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT.
16. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEED AREA WITHIN 24 HOURS OF SEEDING.
17. DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER (Dx1) ON SLOPES THAT ARE 4:1 OR STEEPER.
18. MAINTAIN INITIAL EROSION CONTROL MEASURES THROUGHOUT INTERMEDIATE PHASE.
19. CONTROL EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS TO AVOID DUMPING OR SLOUGHING INTO BUFFER AREAS.
20. DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
21. INSTALL EROSION CONTROL DEVICES IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS.
22. MAINTAIN AND FURNISH ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
23. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL SLOPES 10 FEET OR GREATER IN HEIGHT.
24. INSTALL BARRIERS AT THE TOE OF SLOPES AFTER CONSTRUCTION. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED.
25. PLACE TYPE "C" SILT FENCE AT THE TOE OF ALL DIRT STOCKPILE AREAS AND SEED WITH TEMPORARY GRASSING.
26. INSTALL INLET SEDIMENT PROTECTION MEASURES ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
27. INSTALL STONE CHECK DAMS IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
28. APPLY VEGETATIVE COVER ON ALL DRAINAGE SWALES AS SOON AS FINAL GRADE IS ACHIEVED.
29. APPLY VEGETATIVE COVER ON ALL GRADED AREAS AS SOON AS FINAL GRADE IS ACHIEVED.
30. APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
31. STABILIZE ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS WITH TEMPORARY GRASSING.
32. MAINTAIN THE SEDIMENT POND UNTIL GRADING OPERATIONS ARE COMPLETE AND THE SITE IS PERMANENTLY STABILIZED.
33. INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT.
34. REPLACE & REMOVE INLET SEDIMENT TRAPS WITH CURB FILTER INLET PROTECTION AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED.
35. MAINTAIN TEMPORARY SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
36. APPLY VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS OF ALL ROADWAY AND PARKING SHOULDERS.
37. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM OFF-SITE UPON FINAL STABILIZATION OF THE PROJECT AND CERTIFICATE OF OCCUPANCY.
38. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
39. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
40. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.

INTERMEDIATE SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. MAINTAIN INITIAL EROSION CONTROL MEASURES THROUGHOUT INTERMEDIATE PHASE.
2. CONTROL EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS TO AVOID DUMPING OR SLOUGHING INTO BUFFER AREAS.
3. DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
4. INSTALL EROSION CONTROL DEVICES IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS.
5. MAINTAIN AND FURNISH ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
6. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL SLOPES 10 FEET OR GREATER IN HEIGHT.
7. INSTALL BARRIERS AT THE TOE OF SLOPES AFTER CONSTRUCTION. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED.
8. PLACE TYPE "C" SILT FENCE AT THE TOE OF ALL DIRT STOCKPILE AREAS AND SEED WITH TEMPORARY GRASSING.
9. INSTALL INLET SEDIMENT PROTECTION MEASURES ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
10. INSTALL STONE CHECK DAMS IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
11. APPLY VEGETATIVE COVER ON ALL DRAINAGE SWALES AS SOON AS FINAL GRADE IS ACHIEVED.
12. APPLY VEGETATIVE COVER ON ALL GRADED AREAS AS SOON AS FINAL GRADE IS ACHIEVED.
13. APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
14. STABILIZE ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS WITH TEMPORARY GRASSING.
15. MAINTAIN THE SEDIMENT POND UNTIL GRADING OPERATIONS ARE COMPLETE AND THE SITE IS PERMANENTLY STABILIZED.
16. INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT.
17. REPLACE & REMOVE INLET SEDIMENT TRAPS WITH CURB FILTER INLET PROTECTION AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED.
18. MAINTAIN TEMPORARY SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
19. APPLY VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS OF ALL ROADWAY AND PARKING SHOULDERS.
20. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM OFF-SITE UPON FINAL STABILIZATION OF THE PROJECT AND CERTIFICATE OF OCCUPANCY.

FINAL SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. MAINTAIN INITIAL AND INTERMEDIATE EROSION CONTROL MEASURES THROUGHOUT FINAL PHASE.
2. DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
3. REPLACE & REMOVE INLET SEDIMENT TRAPS WITH CURB FILTER INLET PROTECTION AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED.
4. MAINTAIN TEMPORARY SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
5. APPLY VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS OF ALL ROADWAY AND PARKING SHOULDERS.
6. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM OFF-SITE UPON FINAL STABILIZATION OF THE PROJECT AND CERTIFICATE OF OCCUPANCY.
7. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
8. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
9. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
10. MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.

N.P.D.E.S. NOTES

ALL PARTIES INVOLVED WITH THE COMPLETION OF THE PROPOSED PROJECT SHALL READ, FAMILIARIZE THEMSELVES AND COMPLY WITH THE STATE OF GEORGIA'S REQUIREMENTS FOR COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) FOR AUTHORIZING DISCHARGE OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICABLE FOR THIS PROJECT.
GENERAL PERMIT NO. GAR 100001, FOR STAND ALONE CONSTRUCTION PROJECTS
NOTE: THE CONTRACTOR SHALL KEEP A COPY OF THE GENERAL PERMIT AT THE PROJECT SITE TO ENSURE ALL THE REQUIREMENTS OF THE PERMIT ARE BEING MET THROUGHOUT THE DURATION OF CONSTRUCTION/LAND DISTURBING ACTIVITIES.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A 404 PERMIT

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET EC3.0 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THIS PROJECT. THE ESPCC PLAN MUST BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT MINIMIZE FUEL CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SALVANTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHICH NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING MATERIALS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CONTROL PRACTICES-PRACTICES USED TO REDUCE POLLUTANTS

- 1. DISCHARGE OF NEW OR USED OIL, FUEL, LUBRICANTS, ETC. IS PROHIBITED. UTILIZE CONTAINMENT SYSTEMS. RECYCLED USED OILS, CONTAMINATED FUELS AND LUBRICANTS, ILLEGAL DISCHARGES ARE SUBJECT TO FINES AND PENALTIES.
2. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT SHALL BE CLEARLY LABELED AND STORED IN A CLEARLY IDENTIFIED AREA. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
3. FERTILIZERS USED SHALL BE APPLIED IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. ANY FERTILIZERS THAT ARE TO BE STORED ON-SITE, SHALL BE STORED IN A PROTECTED SECURABLE ENCLOSURE. THE CONTENTS OF ANY PARTIALLY USED BAGS AT FERTILIZERS SHALL BE TRANSFERRED TO A CLEARLY TO A CLEARLY LABELED, SEALABLE PLASTIC CONTAINER TO AVOID SPILLS.
4. CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT, DISCHARGE AND DRUM WASH ONLY AT THE IDENTIFIED EQUIPMENT MAINTENANCE AREAS. MAINTENANCE AREAS SHALL BE EQUIPPED WITH A DISCHARGE CONTAINMENT AREA (I.E. EARTH BERMS SURROUNDING AREA). THE CONTAINMENT AREA SHALL BE CLEANED UP AND REMOVED FROM THE SITE UPON COMPLETION OF CONCRETE INSTALLATION WORK.
5. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
6. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, RESPIRATORS, CAT LITER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
7. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
8. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR THE APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
9. THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES SHALL ALSO BE INCLUDED.

BUILDING MATERIALS EXPOSURE

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE PRESENT ON THE SITE, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

#38 4. INSPECTIONS

a. PERMITTEE REQUIREMENTS.

- (1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(2) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY OR NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART V.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
(4) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFICATION AND POLLUTION PREVENTION PLAN, THE PERMITTEE SHALL BE ADVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
(5) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

#39 6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS, WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP; THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.
(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SURFING WARM WATER FISHERIES); AND
(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.
b. SAMPLE TYPE: ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "WATER STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(4) MANUAL, AUTOMATIC OR RISING STAKE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS.

- (1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
(a) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
(b) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(c) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
(d) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
(e) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(f) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(g) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100%

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OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
(h) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

d. SAMPLING FREQUENCY.

- (1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
(a) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
(b) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
(a) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
(b) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
(c) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND
(d) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b) ABOVE. EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.
*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
c. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
d. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
e. THE DATE(S) ANALYSES WERE PERFORMED;
f. THE TIME(S) ANALYSES WERE INITIATED;
g. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
h. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
i. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
j. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

#32 F. RETENTION OF RECORDS.

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.



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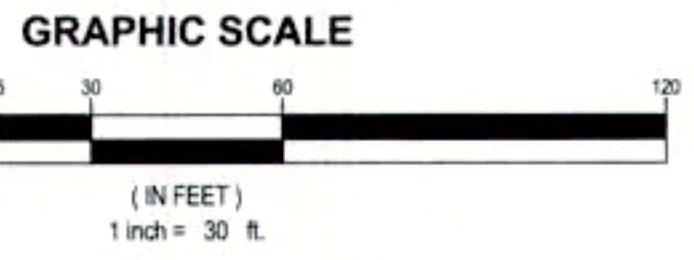
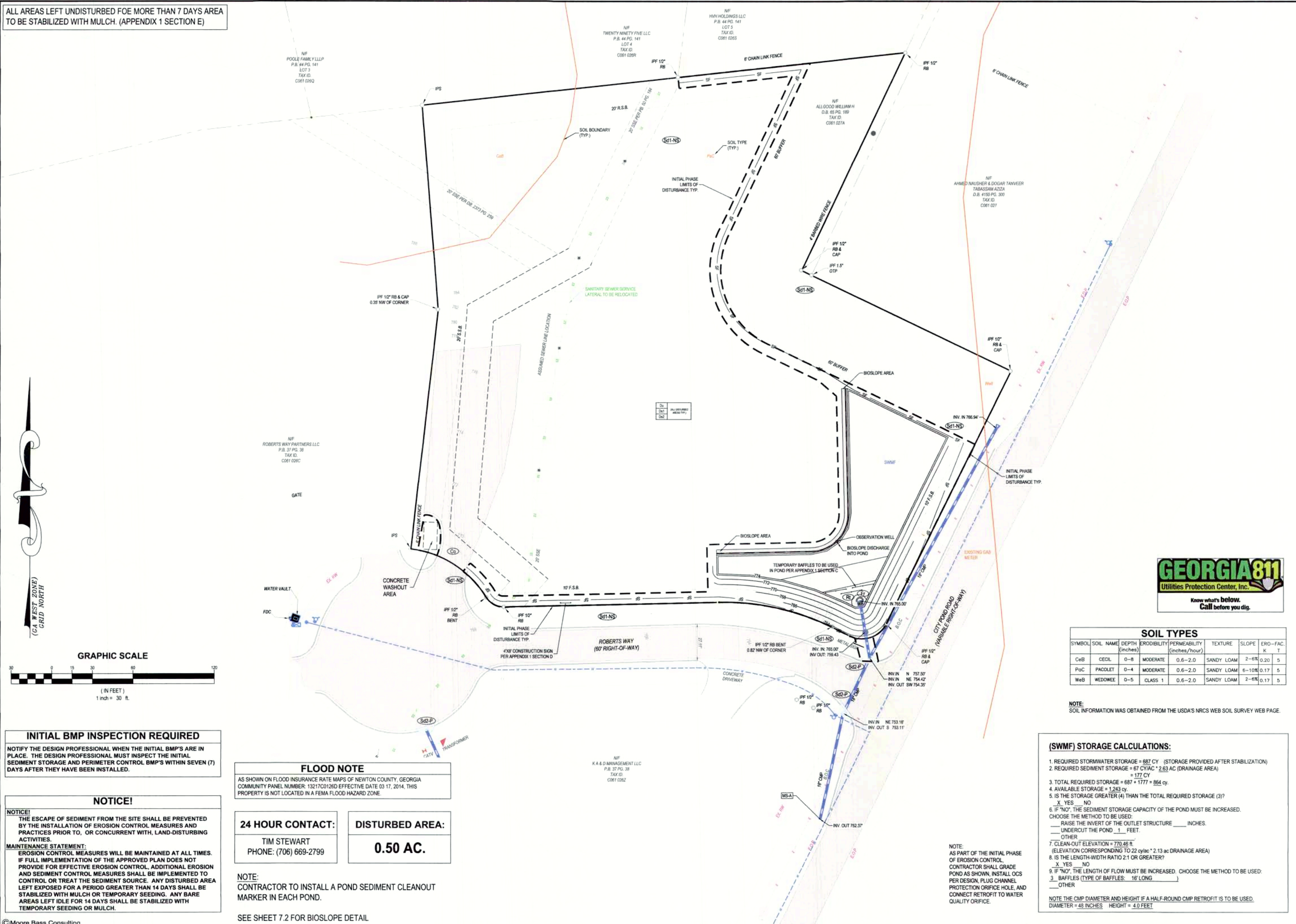
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770.914.9394

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10300 ROBERTS WAY
COWINGTON, GA 30014
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

PROJECT NAME, CLIENT NAME, REVISIONS, A3250.0001-CVR-DETAILS, DATE 7/10/2023, CONTRACT # A3250.0001, DRAWN BY LW, SEAL, LEVEL 2 CERTIFICATION, SHEET TITLE EROSION CONTROL NOTES SHEET 2, SHEET 3.2

ALL AREAS LEFT UNDISTURBED FOR MORE THAN 7 DAYS ARE TO BE STABILIZED WITH MULCH. (APPENDIX 1 SECTION E)



SOIL TYPES						
SYMBOL	SOIL NAME	DEPTH (inches)	ERODIBILITY	PERMEABILITY (inches/hour)	TEXTURE	SLOPE ERO-FAC. K T
CeB	CECIL	0-8	MODERATE	0.6-2.0	SANDY LOAM	2-6% 0.20 5
PoC	PACOLET	0-4	MODERATE	0.6-2.0	SANDY LOAM	6-10% 0.17 5
WeB	WEDOWEE	0-5	CLASS 1	0.6-2.0	SANDY LOAM	2-6% 0.17 5

NOTE:
 SOIL INFORMATION WAS OBTAINED FROM THE USDA'S NRCS WEB SOIL SURVEY WEB PAGE.

(SWMF) STORAGE CALCULATIONS:

- REQUIRED STORMWATER STORAGE = 887 CY (STORAGE PROVIDED AFTER STABILIZATION)
- REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.63 AC (DRAINAGE AREA) = 177 CY
- TOTAL REQUIRED STORAGE = 887 + 177 = 1064 CY
- AVAILABLE STORAGE = 1,243 CY
- IS THE STORAGE GREATER (4) THAN THE TOTAL REQUIRED STORAGE (3)?
 X YES NO
- IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
 RAISE THE INVERT OF THE OUTLET STRUCTURE ____ INCHES.
 UNDERCUT THE POND ____ FEET.
 OTHER _____
- CLEAN-OUT ELEVATION = 770.48 ft (ELEVATION CORRESPONDING TO 22 cfs/ac * 2.13 ac DRAINAGE AREA)
- IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
 X YES NO
- IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
 3 BAFFLES (TYPE OF BAFFLES: 16' LONG)
 OTHER _____

NOTE THE CMP DIAMETER AND HEIGHT IF A HALF-ROUND CMP RETROFIT IS TO BE USED.
 DIAMETER = 48 INCHES HEIGHT = 4.0 FEET

INITIAL BMP INSPECTION REQUIRED
 NOTIFY THE DESIGN PROFESSIONAL WHEN THE INITIAL BMP'S ARE IN PLACE. THE DESIGN PROFESSIONAL MUST INSPECT THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS AFTER THEY HAVE BEEN INSTALLED.

NOTICE!
 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
MAINTENANCE STATEMENT:
 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY BARE AREAS LEFT IDLE FOR 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.

FLOOD NOTE
 AS SHOWN ON FLOOD INSURANCE RATE MAPS OF NEWTON COUNTY, GEORGIA COMMUNITY PANEL NUMBER: 13217C0126D EFFECTIVE DATE 03 17, 2014. THIS PROPERTY IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE.

24 HOUR CONTACT:
 TIM STEWART
 PHONE: (706) 669-2799

DISTURBED AREA:
0.50 AC.

NOTE:
 CONTRACTOR TO INSTALL A POND SEDIMENT CLEANOUT MARKER IN EACH POND.

SEE SHEET 7.2 FOR BIOSLOPE DETAIL



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PROJECT NAME
T & M HEATING & AIR
 10100 ROBERTS WAY
 COVINGTON, GA 30014

CLIENT NAME
HIGH NOON INVESTMENTS
 2250 DOUBLE SPRINGS CHURCH ROAD
 MONROE, GA 30656

REVISIONS	PER CITY COMMENTS
9/12/2023	REVISED PER CITY COMMENTS
10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-CD-ERO-INITIAL

DATE: 7/10/2023

CONTRACT #: A3250.0001

DRAWN BY: LW

1350 KEYS FERRY COURT
 MCDONOUGH, GA 30253
 LSP #1775



LEVEL 2 CERTIFICATION
 CERT. 8000045634 EXP. 06/01/25

SHEET TITLE
INITIAL PHASE EROSION CONTROL PLAN

SHEET
3.3

C:\AS250\0001 - Roberts Way - T&M Heating & Air - ERO-INITIAL.dwg, 3.3-ERO-INITIAL, Mullins, 04/11/2023, 2:28:58pm
 C:\AS250\0001 - Roberts Way - T&M Heating & Air - ERO-INITIAL.dwg, 3.3-ERO-INITIAL, Mullins, 04/11/2023, 2:28:58pm

ALL AREAS LEFT UNDISTURBED FOR MORE THAN 7 DAYS AREA TO BE STABILIZED WITH MULCH. (APPENDIX 1 SECTION E)



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COVINGTON, GA 30014

HIGH MOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

PROJECT NAME

CLIENT NAME

REVISIONS
8/12/2023 REVISED PER CITY COMMENTS
10/11/2023 REVISED PER CITY COMMENTS

A3250.0001-CD-ERO INTER.

DATE 7/10/2023

CONTRACT # A3250.0001

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LSP #1133



LEVEL 2 CERTIFICATION

CERT. #0000045834 EXP. 08/01/25

SHEET TITLE

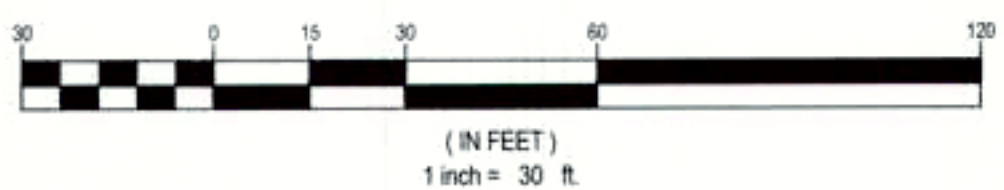
EROSION CONTROL
PLAN - INTERMEDIATE
PHASE

SHEET

3.4



GRAPHIC SCALE



INITIAL BMP INSPECTION REQUIRED

NOTIFY THE DESIGN PROFESSIONAL WHEN THE INITIAL BMP'S ARE IN PLACE. THE DESIGN PROFESSIONAL MUST INSPECT THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS AFTER THEY HAVE BEEN INSTALLED.

NOTICE!

NOTICE!
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

MAINTENANCE STATEMENT:
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY BARE AREAS LEFT IDLE FOR 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.

FLOOD NOTE

AS SHOWN ON FLOOD INSURANCE RATE MAPS OF NEWTON COUNTY, GEORGIA COMMUNITY PANEL NUMBER: 13217C0126D EFFECTIVE DATE 03 17, 2014, THIS PROPERTY IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE.

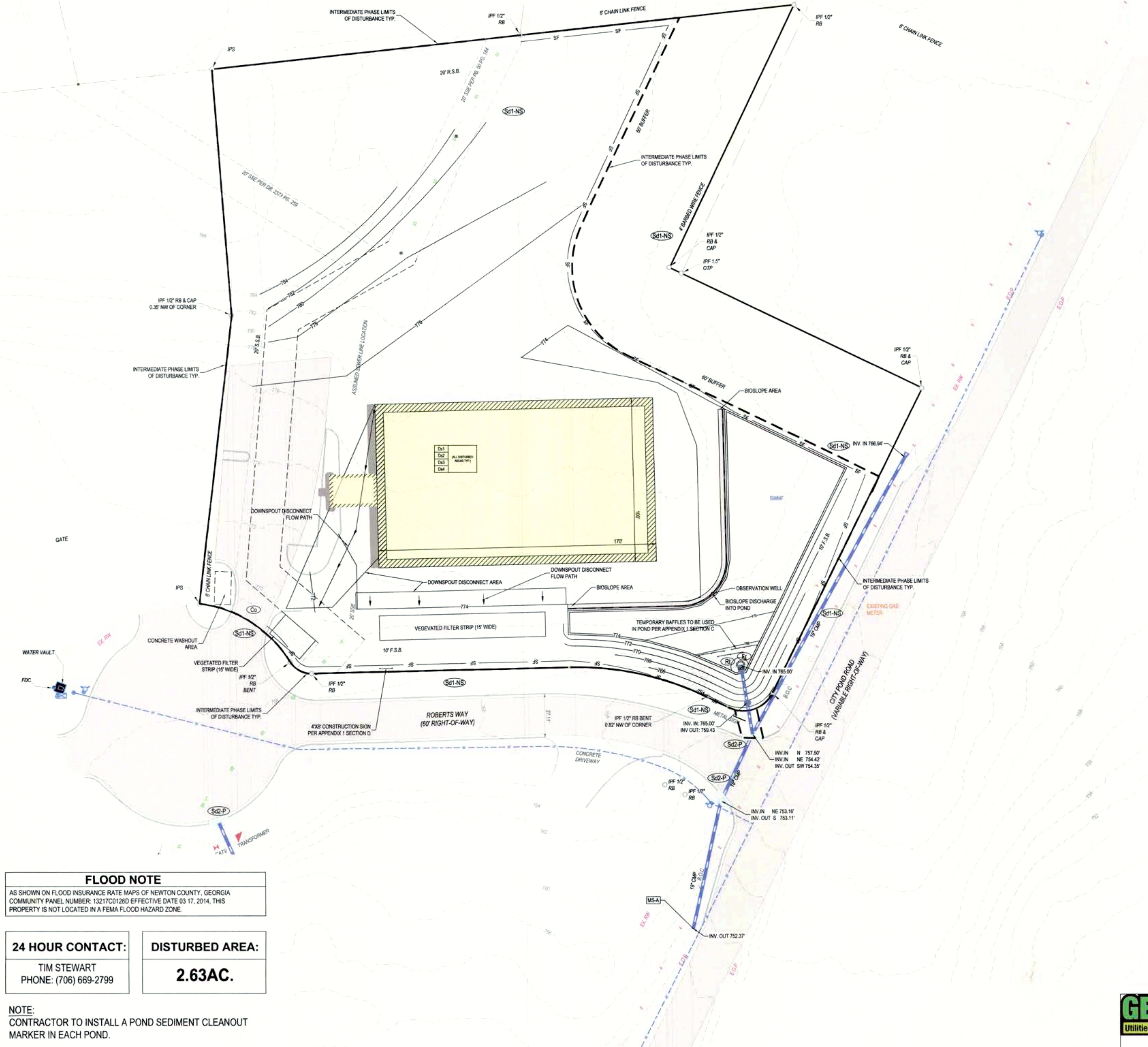
24 HOUR CONTACT:

TIM STEWART
PHONE: (706) 669-2799

DISTURBED AREA:

2.63AC.

NOTE:
CONTRACTOR TO INSTALL A POND SEDIMENT CLEANOUT MARKER IN EACH POND.



C:\A3250.0001 - Roberts Way, Tract Engineering\CD\A3250.0001-CD-ERO INTER.dwg, 3.4-ERO-INT, Williams, Oct 11, 2023, 3:04:23pm



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PROJECT NAME	T & M HEATING & AIR 10100 ROBERTS WAY COVINGTON, GA 30014
CLIENT NAME	HIGH NOON INVESTMENTS 2250 DOUBLE SPRINGS CHURCH ROAD MONROE, GA 30656

REVISIONS	
8/12/2023	REVISED PER CITY COMMENTS
10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-C3D_BASE

DATE 7/10/2023

CONTRACT # A3250.0001

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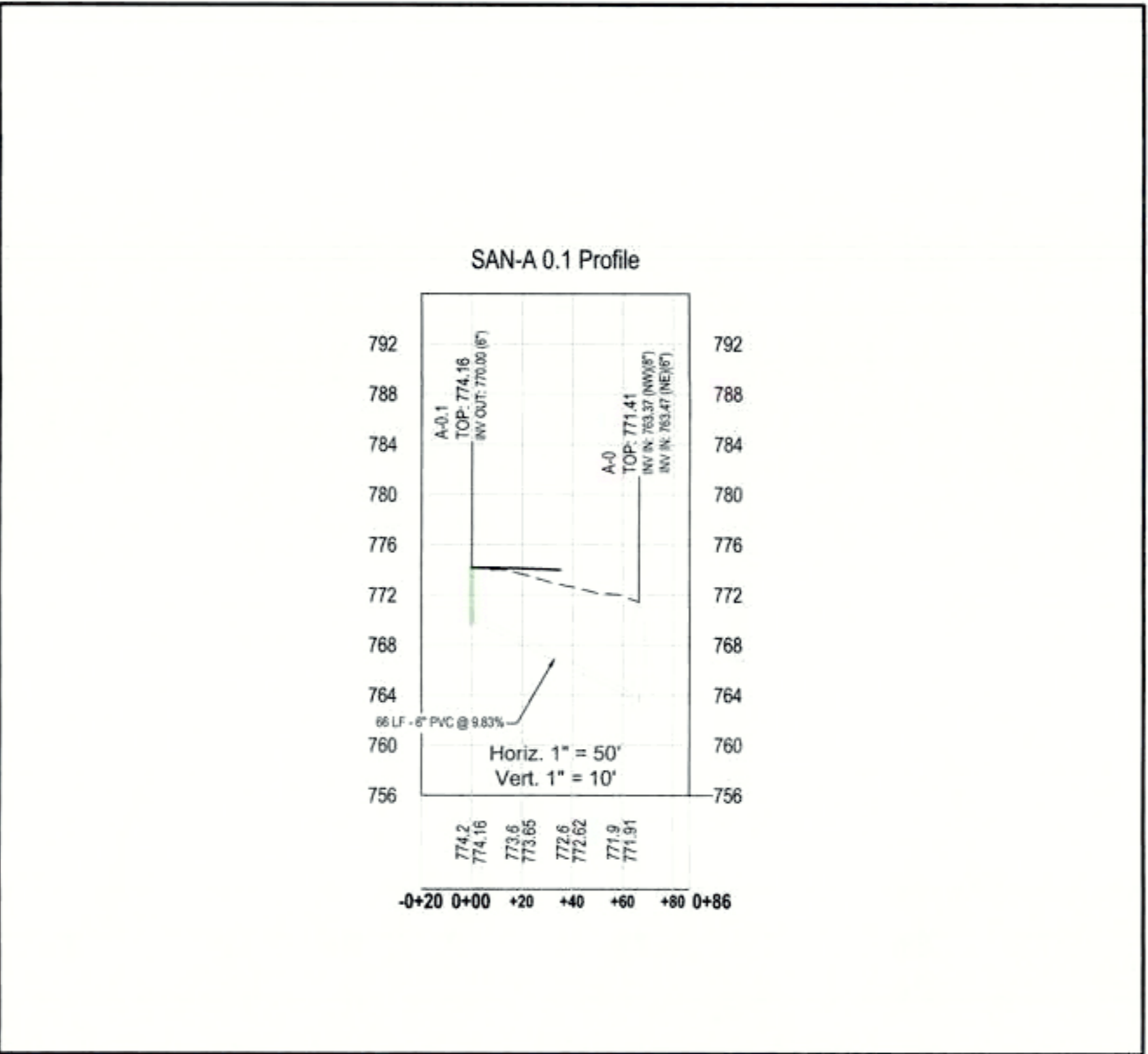
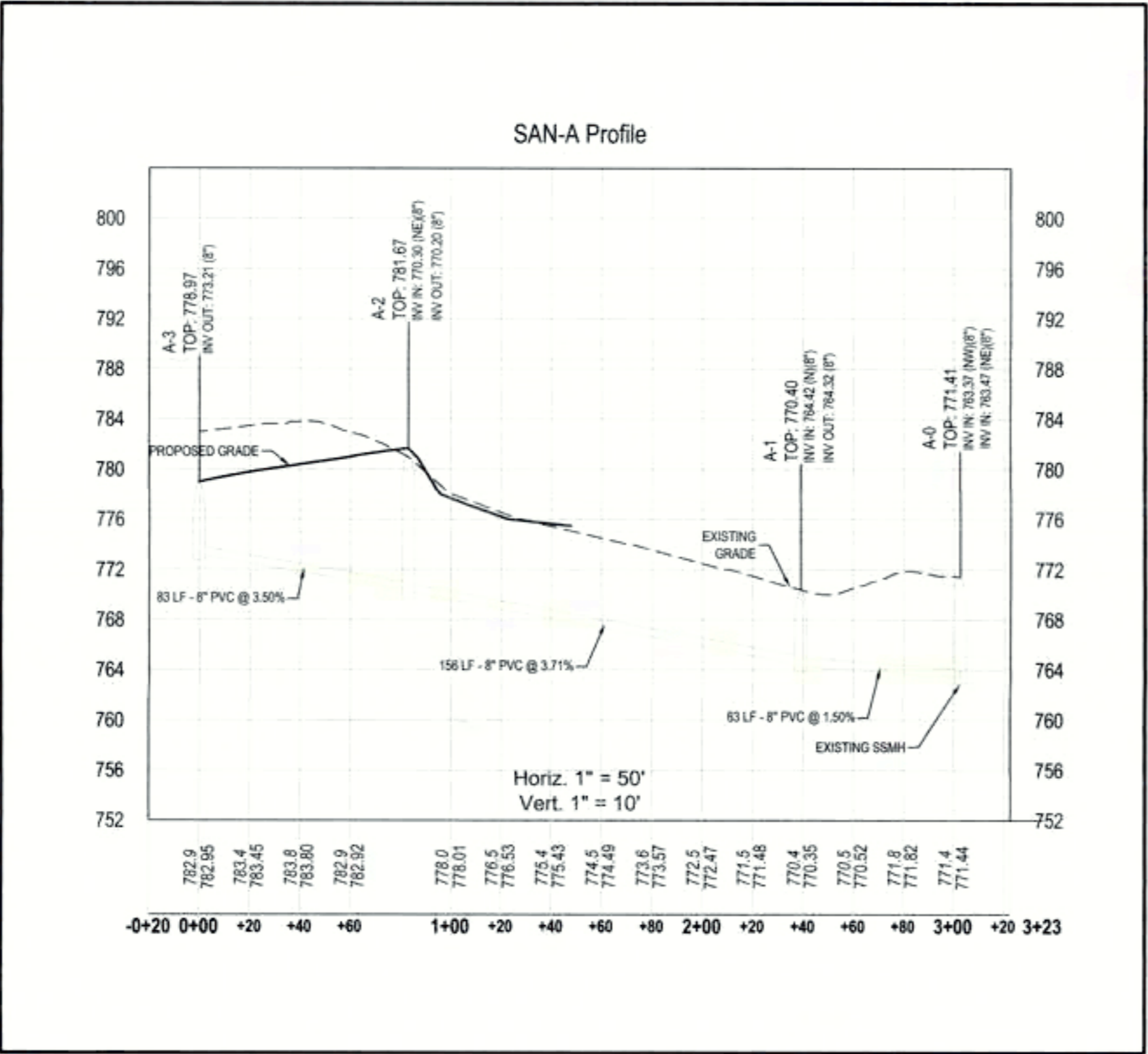


LEVEL 2 CERTIFICATION
CERT. #0000045634 EXP.: 08/01/25

SHEET TITLE

SANITARY SEWER
LATERAL PROFILE

SHEET
4.1



CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING EACH PHASE OF STORMWATER INFRASTRUCTURE INSTALLATION AND INSPECTIONS

NOTE: SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.



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2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

PROJECT NAME

CLIENT NAME

REVISIONS

A3250.0001-CD-UTILITY

DATE 7/10/2023

CONTRACT # A3250.0001

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LSP #11



LEVEL 2 CERTIFICATION

CERT. #0000045834 EXP. 06/01/25

SHEET TITLE

UTILITY PLAN

SHEET

4.2

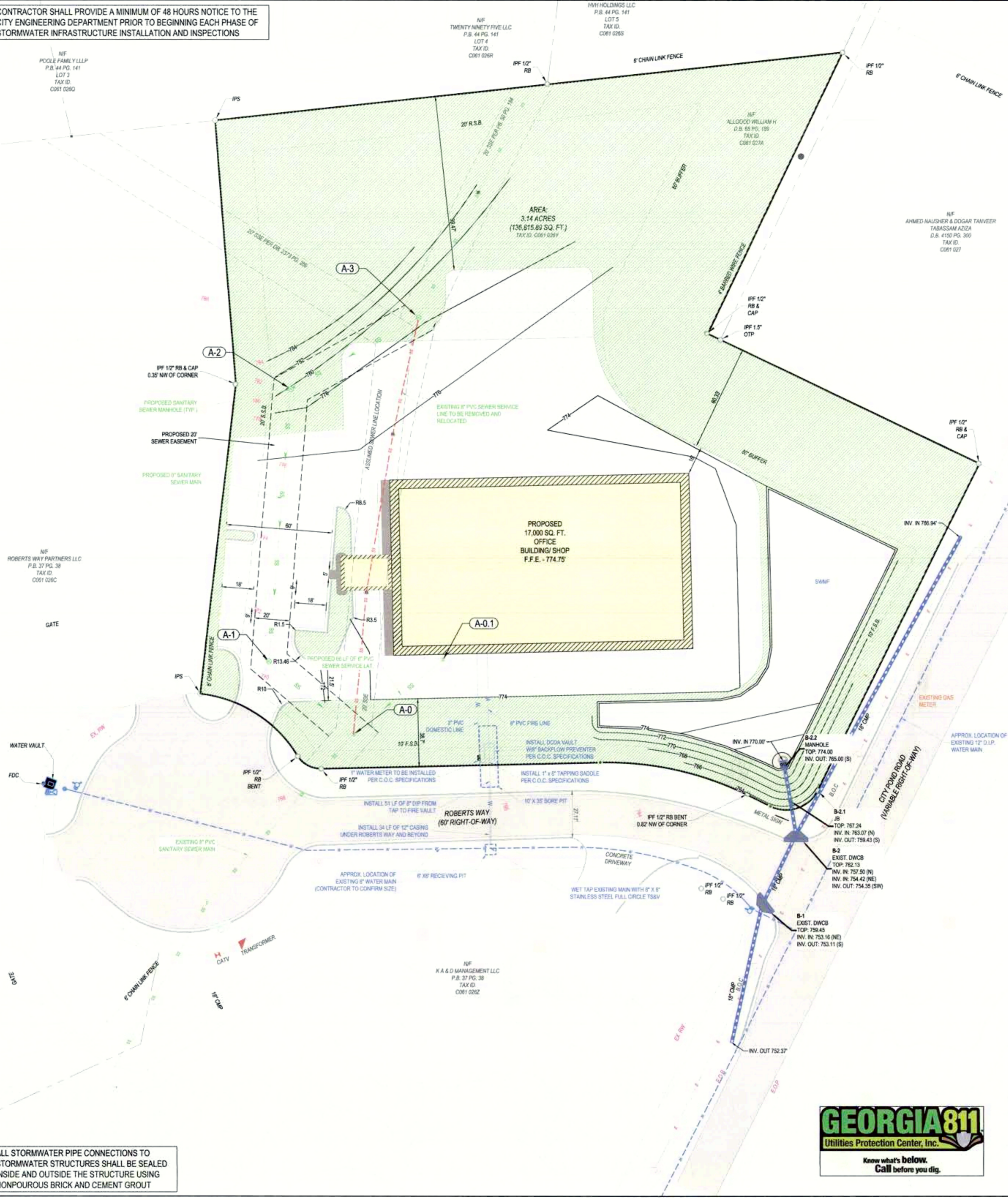
SITE NOTES

- 1) STRIPING AND OTHER PAVEMENT MARKINGS WILL BE PAINTED WITH TWO COATS OF PAINT, NON-THERMOPLASTIC. STRIPE WIDTHS WILL BE 5 INCHES, UNLESS OTHERWISE NOTED.
- 2) ALL HANDICAP ACCESSIBLE RAMPS, WALKS, SIGNAGE, AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITY ACT (ADA) REQUIREMENTS AND THE STATE OF GEORGIA BARRIER FREE CODE.
- 3) THE CONTRACTOR SHALL MATCH PROPOSED PAVEMENTS TO EXISTING PAVEMENT IN BOTH GRADE AND ALIGNMENT. GRADE TRANSITIONS WHERE PAVEMENT JOINS WILL BE AT A RATE OF NO MORE THAN 2% PER 5 FEET.
- 4) CONTRACTOR TO COORDINATE WITH CITY FOR CONNECTION TO EXISTING UTILITIES
- 5) ALL WATER AND SEWER WORK SHALL BE DONE TO THE CITY OF COVINGTON SPECS
- 6) WATER SERVICE SHALL BE TYPE "K" COPPER AND HAVE CORRECT FITTINGS (FORD FITTINGS WITH LOCKING RING OR APPROVED EQUIVALENT)
- 7) INSPECTOR MUST BE ON SITE FOR ALL SEWER AND WATER TAPS. ALL TAP FEES MUST BE PAID PRIOR TO SETTING UP INSPECTIONS
- 8) CONTRACTOR MUST CORE, GROUT AND BOOT EXISTING MANHOLE. IF MORE THAN A 2" DROP IT WILL HAVE TO BE AN OUTSIDE DROP AND DIP
- 9) ALL WATER AND SEWER INSPECTIONS REQUIRE A 48HR NOTICE FOR INSPECTIONS. EMAIL REQUEST TO ETARPLEY@CITYOFCOVINGTON.ORG OR CALL 770-385-2183 ALL MATERIALS NEEDED TO BE INSPECTED PRIOR TO INSTALLATION ON WATER AND SEWER SYSTEM. INSPECTOR MUST BE ON-SITE FOR ALL TIE-INS AND TESTING.
- 10) LOADING DOCK APPROACHES SHALL BE PAVED WITH AN ASPHALT OR PORTLAND CEMENT BINDER SO AS TO PROVIDE A PERMANENT, DURABLE AND DUSTLESS SURFACE.

LEGEND

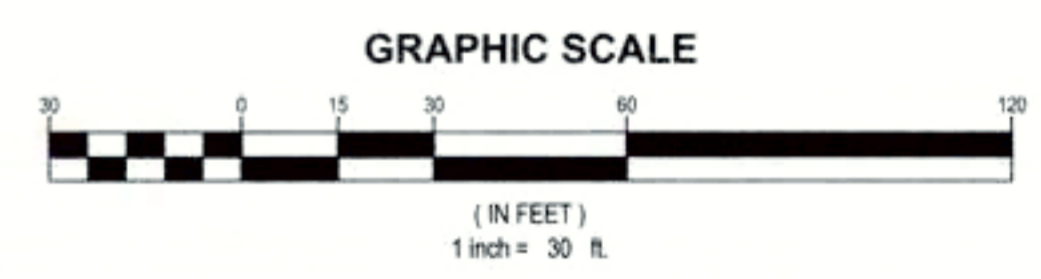
DB	DEED BOOK	EOP	EDGE OF PAVEMENT
PB	PLAT BOOK	FH	FIRE HYDRANT
PG	PAGE	L	LINE LABEL
LL	LAND LOT	NF	NOW OR FORMERLY
OTP	OPEN TOP PIPE	PKS	PK NAIL SET
RB	REBAR	SSE	SANITARY SEWER EASEMENT
IPF	IRON PIN FOUND	UE	UTILITY EASEMENT
IPS	1/2" REBAR W/IC LSF 001179	REF	REFERENCE
CTP	CRIMP TOP PIPE	CO	SEWER CLEAN OUT
C&G	CURB & GUTTER	SQ. FT.	SQUARE FOOT
R/W	RIGHT OF WAY	IPF	IRON PIN FOUND
NF	NOW OR FORMERLY	IPF	IRON PIN SET
-E-	OVERHEAD POWER LINE	CP	CALCULATED POINT
CMP	CORRUGATED METAL PIPE	PP	POWER POLE (PP)
SWMF	STORMWATER MANAGEMENT	FH	FIRE HYDRANT (FH)
TBM	FACILITY TEMPORARY BENCHMARK	WV	WATER VALVE (WV)
POB	POINT OF BEGINNING	WM	WATER METER (WM)
PCC	POINT OF COMMENCEMENT	JB	JUNCTION BOX (JB)
RCP	REINFORCED CONCRETE PIPE	SSMH	SANITARY SEWER MANHOLE (SSMH)
DIP	DUCTILE IRON PIPE	DI	DROP INLET (DI)
HDPE	POLYVINYL CHLORIDE PIPE	RM	ROW MONUMENT
R	HIGH DENSITY POLYETHYLENE PIPE	SW	SINGLE WING CATCH BASIN
C	PROPERTY LINE	DWB	DOUBLE WING CATCH BASIN
ID	CENTERLINE	CI	CURB INLET
B.S.L.	IDENTIFICATION	HW	HEADWALL (HW)
BOC	BUILDING SETBACK LINE	FES	FLARED END SECTION
C	BACK OF CURB	LP	LIGHT POST (LP)
CI	CURB INLET	YI	YARD INLET
DE	DRAINAGE EASEMENT	SC	SEWER CLEAN OUT
		T	TREES

ALL STORMWATER PIPE CONNECTIONS TO STORMWATER STRUCTURES SHALL BE SEALED INSIDE AND OUTSIDE THE STRUCTURE USING NONPOUROUS BRICK AND CEMENT GROUT



LEGEND

[Yellow Box]	BUILDING
[Green Box]	OPEN SPACE (1.67 AC)
[White Box]	EXISTING ASPHALT PAVEMENT
[Light Blue Box]	PROPOSED PAVEMENT
[Dark Blue Box]	PROPOSED GRAVEL PAVEMENT



MISC. UTILITY NOTES

- 1) WATER AND SEWER LINES ARE THE ONLY SUBSURFACE LINES TO BE SHOWN ON THE CIVIL PLANS. GAS, ELECTRIC, CABLE, TELEPHONE, ETC. WILL NEED TO BE PROVIDED BY EACH SEPARATE UTILITY COMPANY. THE POINTS OF CONNECTION (POCs) FOR GAS, ELECTRIC, AND TELEPHONE ARE SHOWN AT THE BUILDINGS LOCATION(S) ONLY (PER THE ARCHITECT'S LATEST FLOOR PLAN).
- 2) CONTRACTOR TO VERIFY SIZE OF EXISTING UTILITIES.

C:\Users\lhw\OneDrive\Documents\A3250.0001-CD-UTILITY.dwg, 4.2 GEO, Williams, Oct 19, 2023, 2:10:34pm

CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING EACH PHASE OF STORMWATER INFRASTRUCTURE INSTALLATION AND INSPECTIONS

NOTE: ALL STORMWATER PIPE CONNECTIONS TO STORMWATER STRUCTURES SHALL BE SEALED INSIDE AND OUTSIDE THE STRUCTURE USING NONPOUROUS BRICK AND CEMENT GROUT



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10100 ROBERTS WAY
COVINGTON, GA 30014

HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

PROJECT NAME

CLIENT NAME

REVISIONS

A3250.0001-CD-GRADING

DATE 7/10/2023

CONTRACT # A3250.0001

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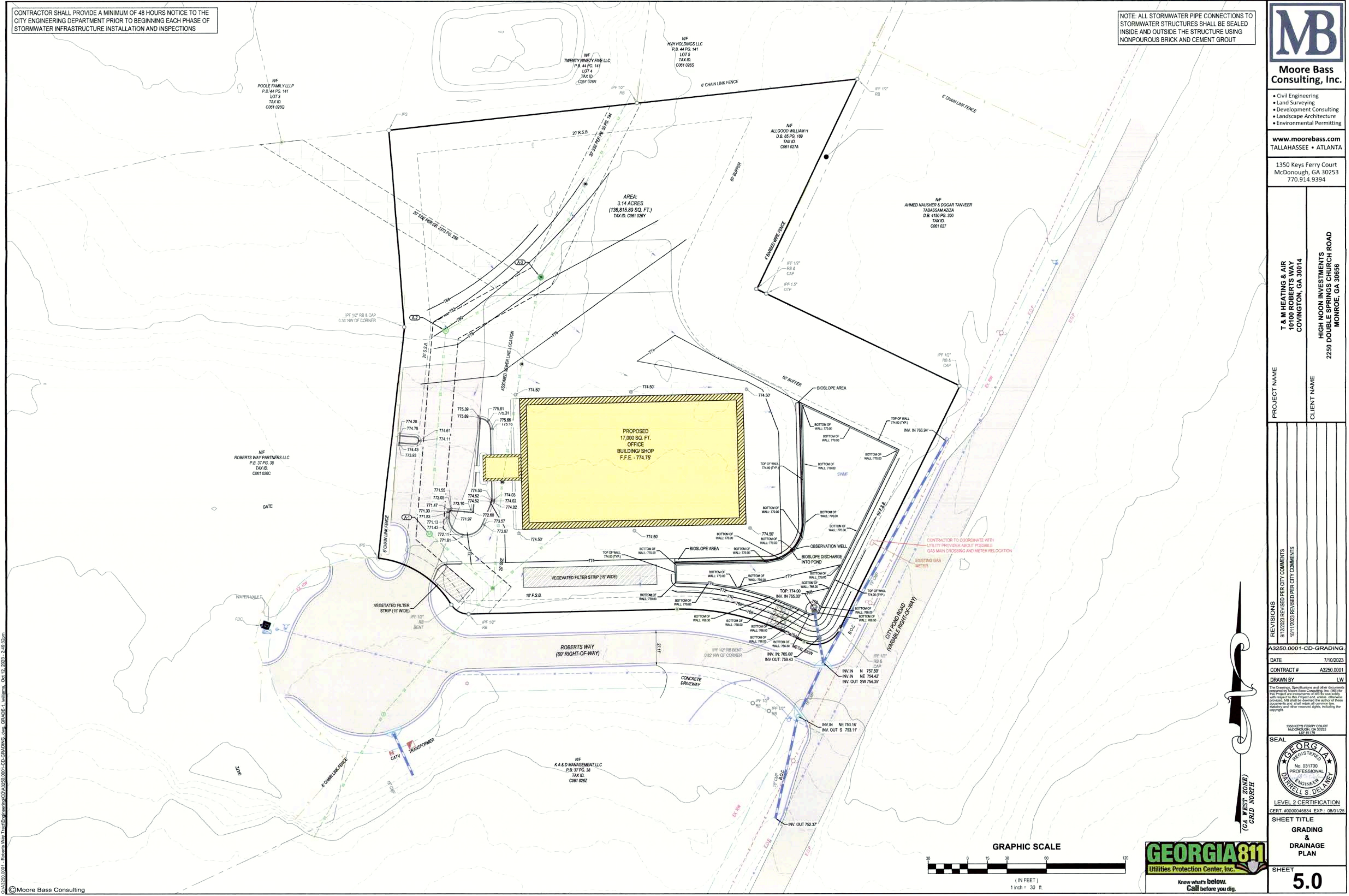
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LEVEL 2 CERTIFICATION
CERT. #0000045834 EXP. 06/01/25

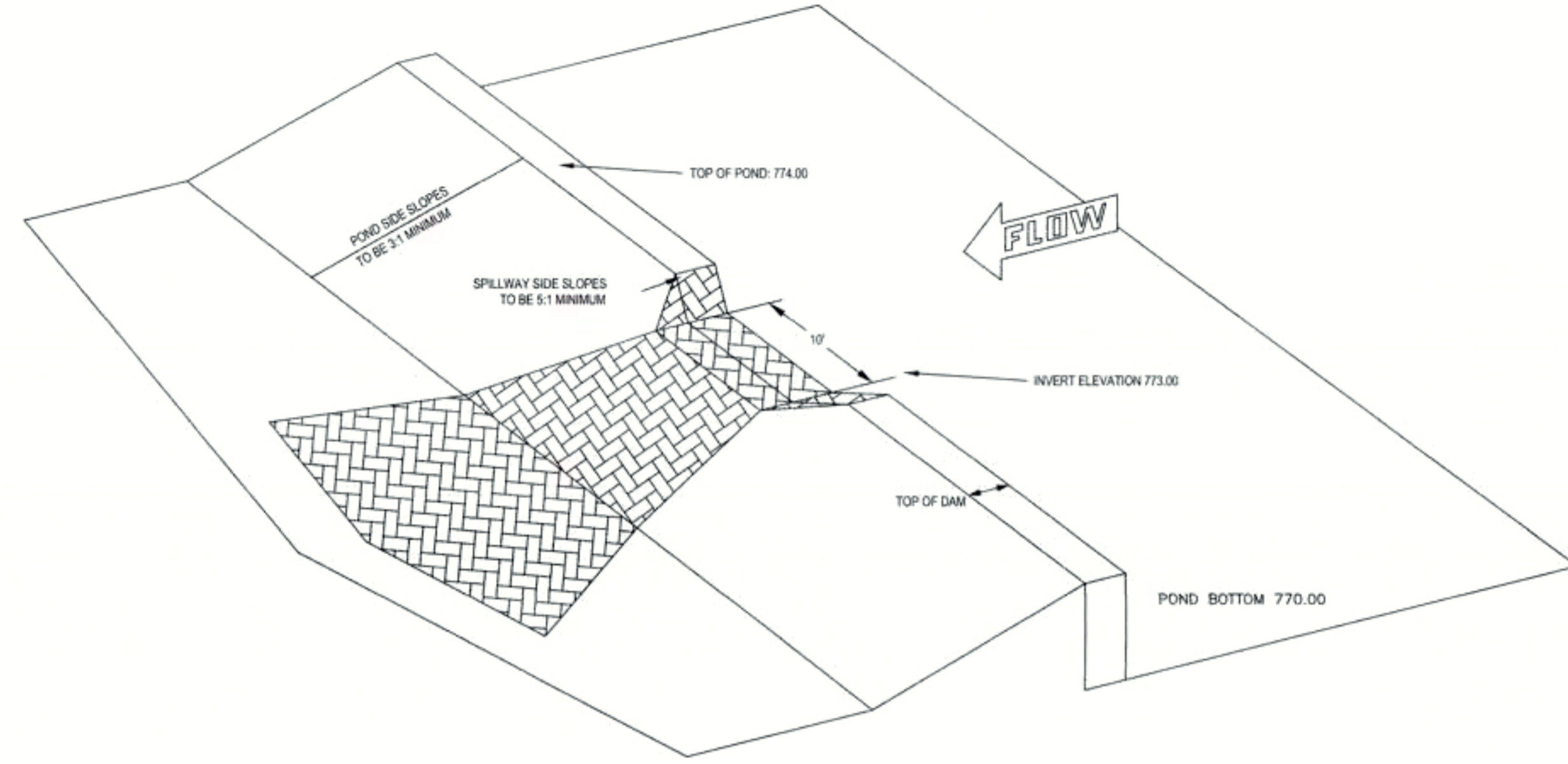
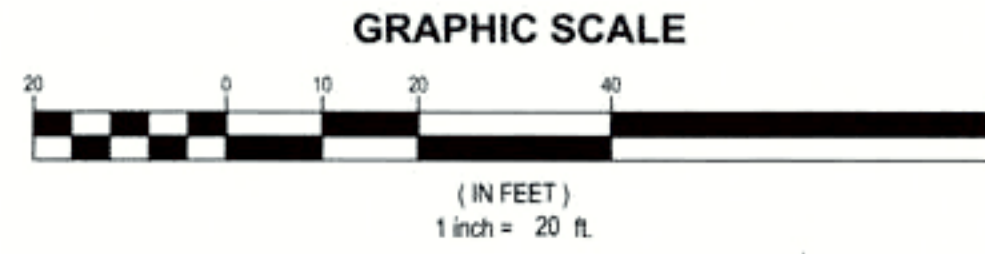
SHEET TITLE
GRADING & DRAINAGE PLAN

SHEET **5.0**

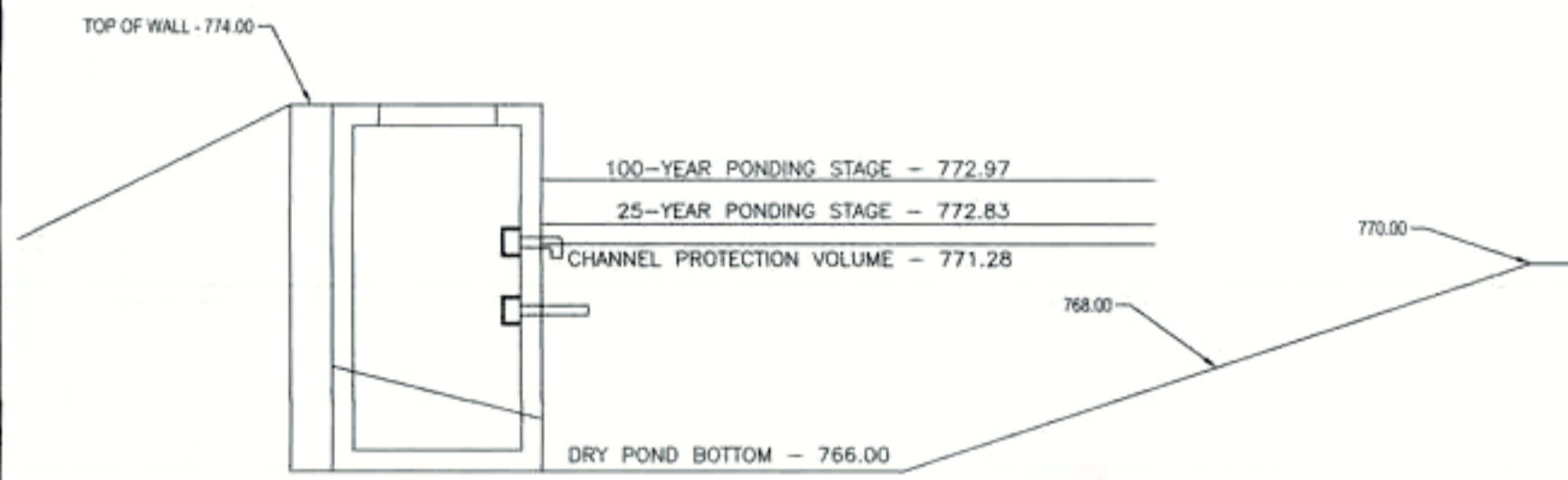


C:\A3250\0001 - Roberts Way The Engineers\CD\A3250.0001-CD-GRADING.dwg GRADE 1, 10/11/2023 2:49:50pm

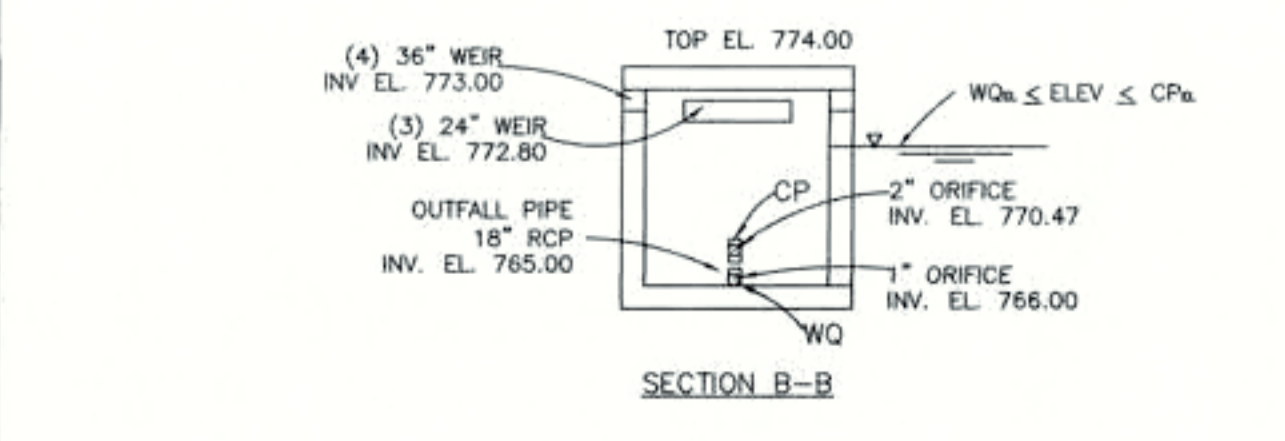
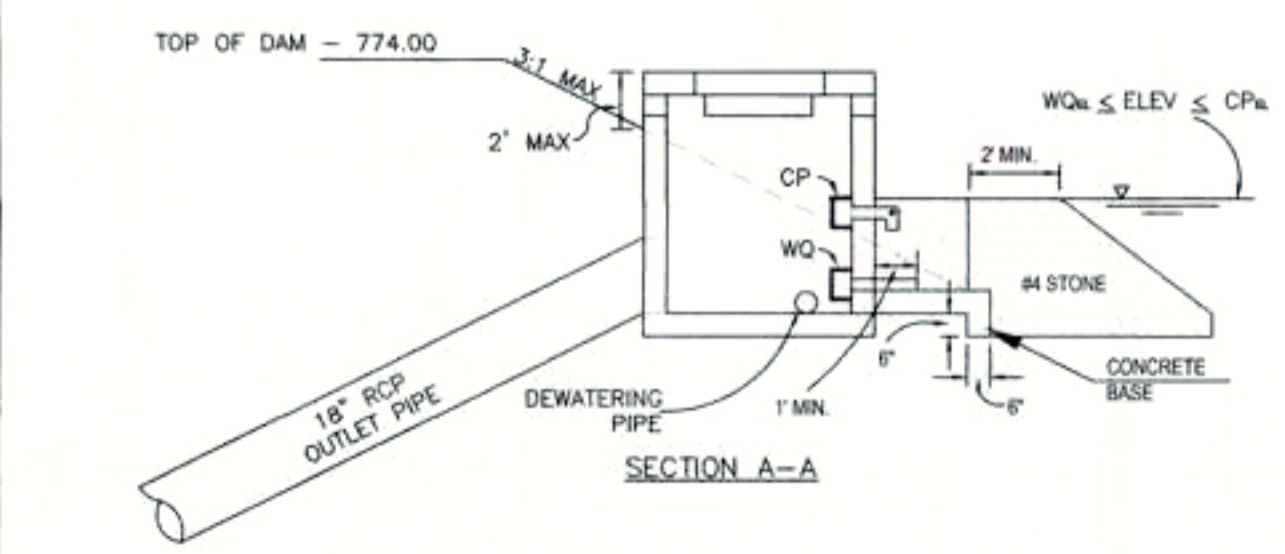
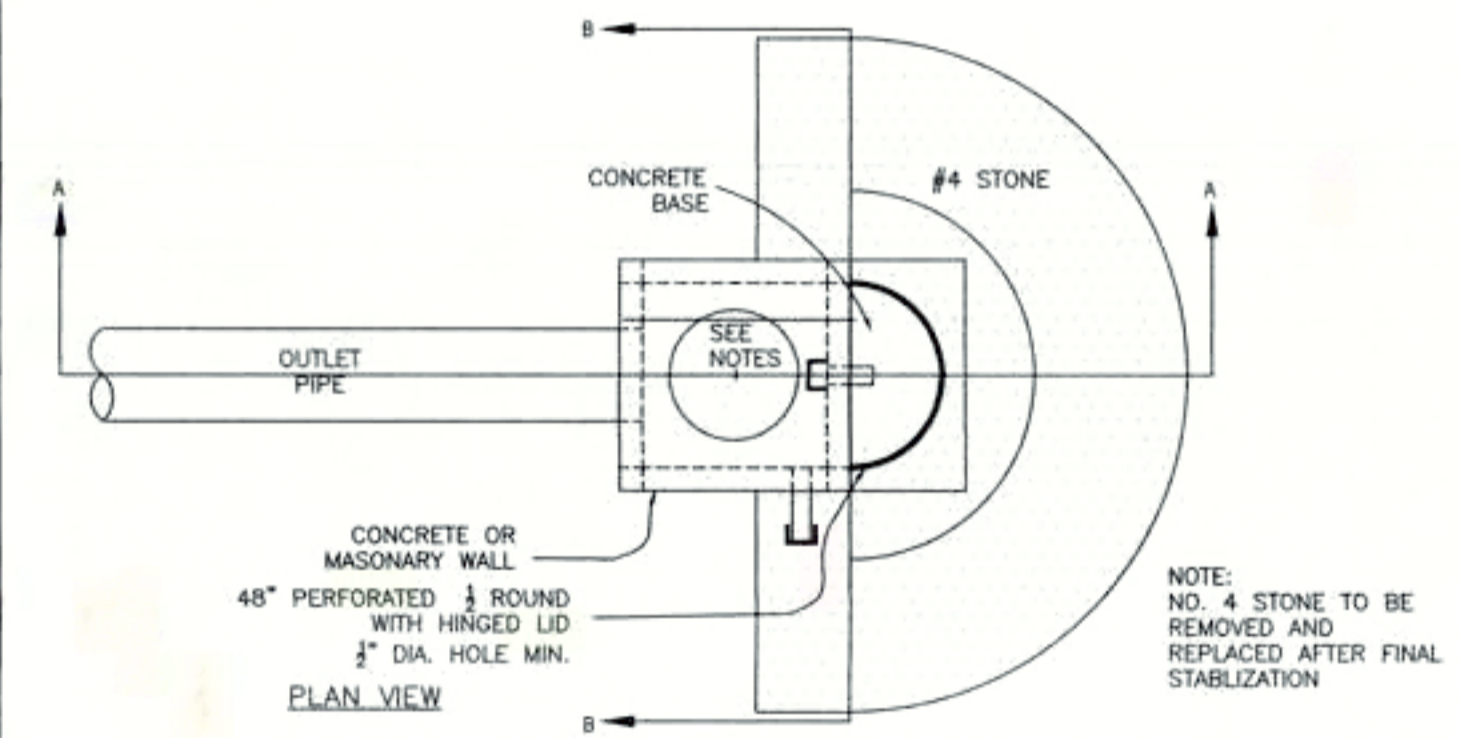




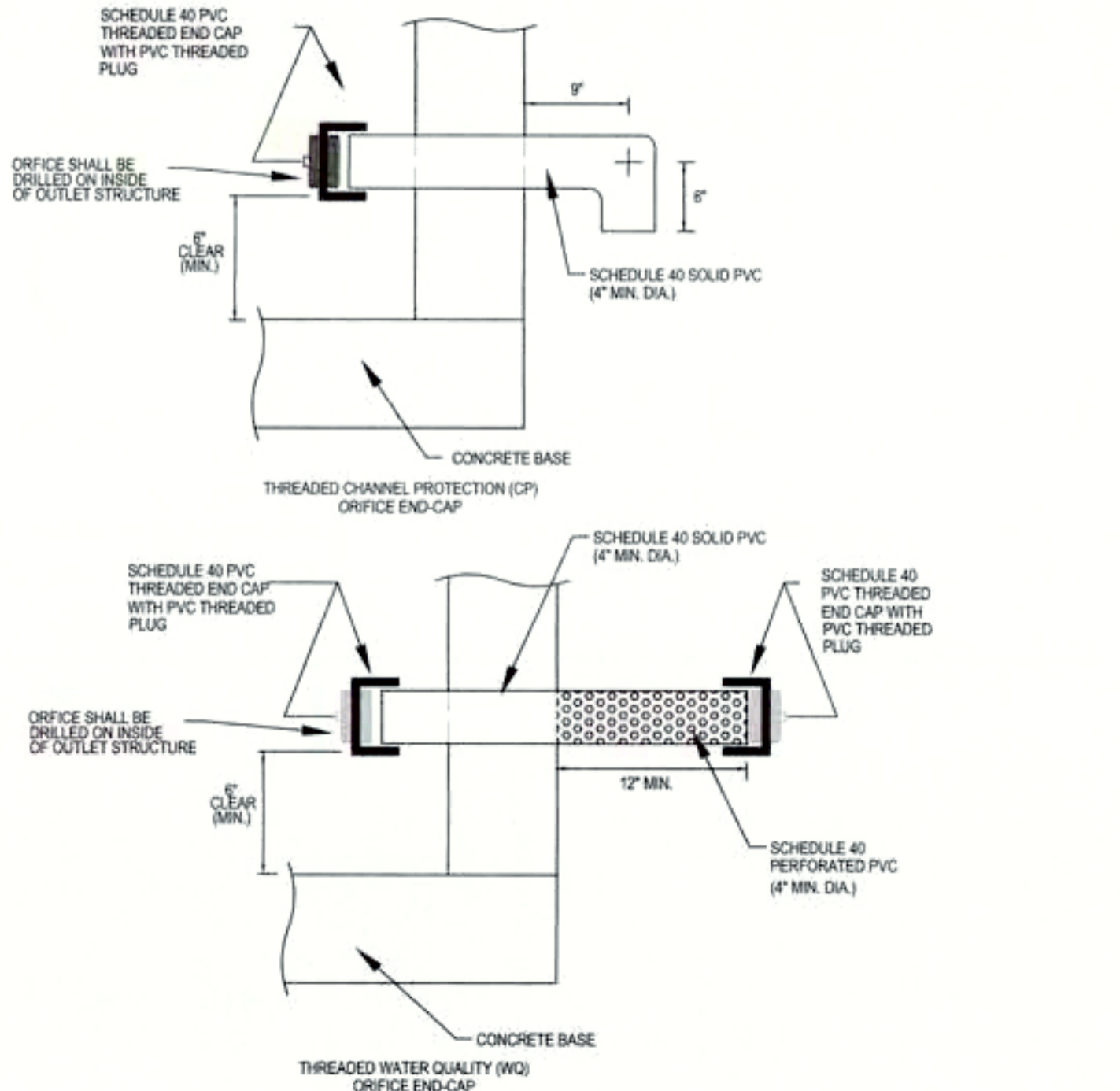
OVERFLOW SPILLWAY
N.T.S.



EVENT	ORIFICE/WEIR INV. ELEV.	ORIFICE DIA. (IN)	WEIR LEN. (FT)	VOLUME (CF)	MAX. STAGE
WQ	776.00	1	—	4,031	770.47
CP	770.47	2	—	8,524	771.28
25	772.80	—	6	21,526	772.83
100	773.00	—	12	22,804	772.97



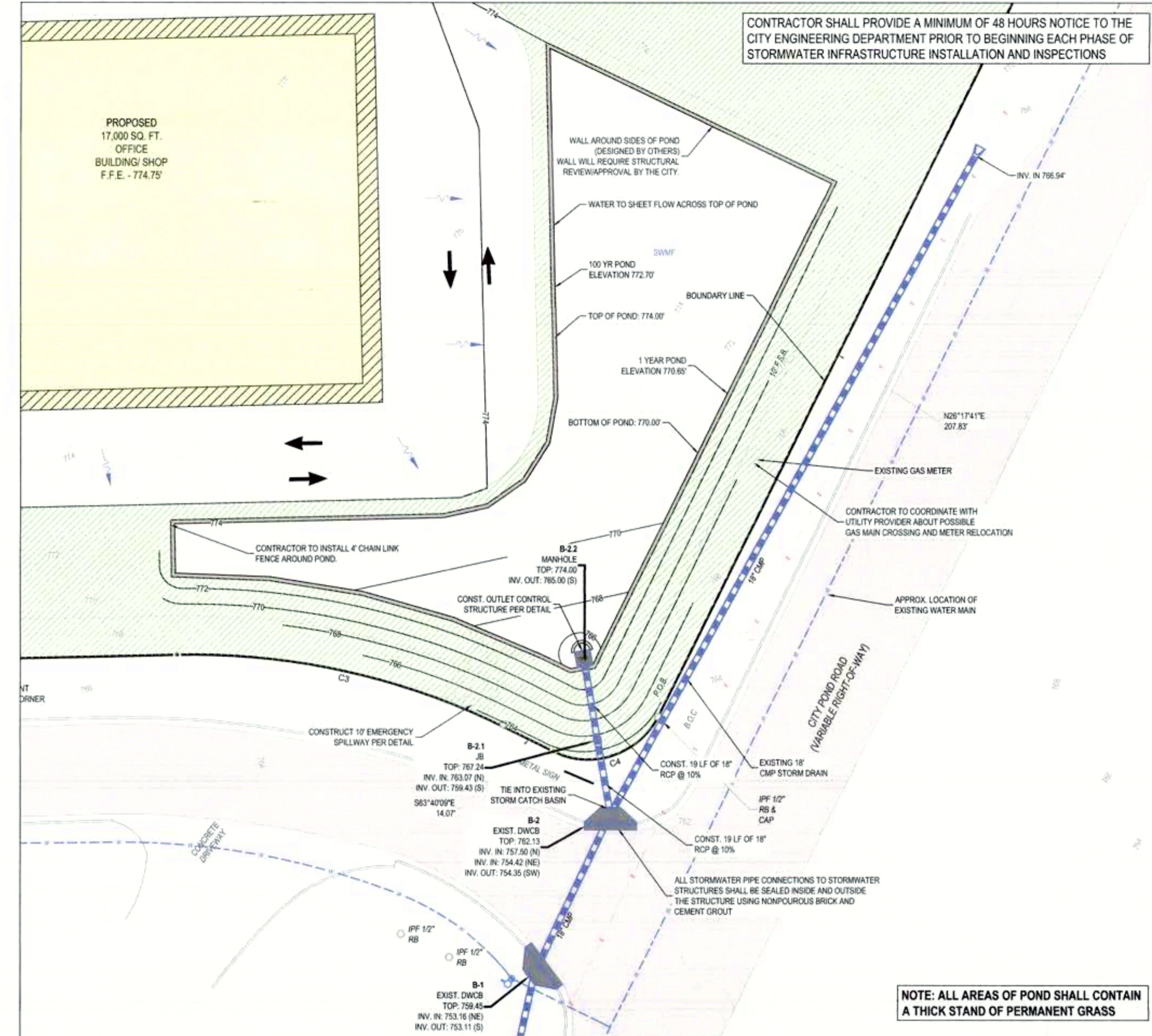
OUTLET CONTROL STRUCTURE - SWMF
N.T.S.



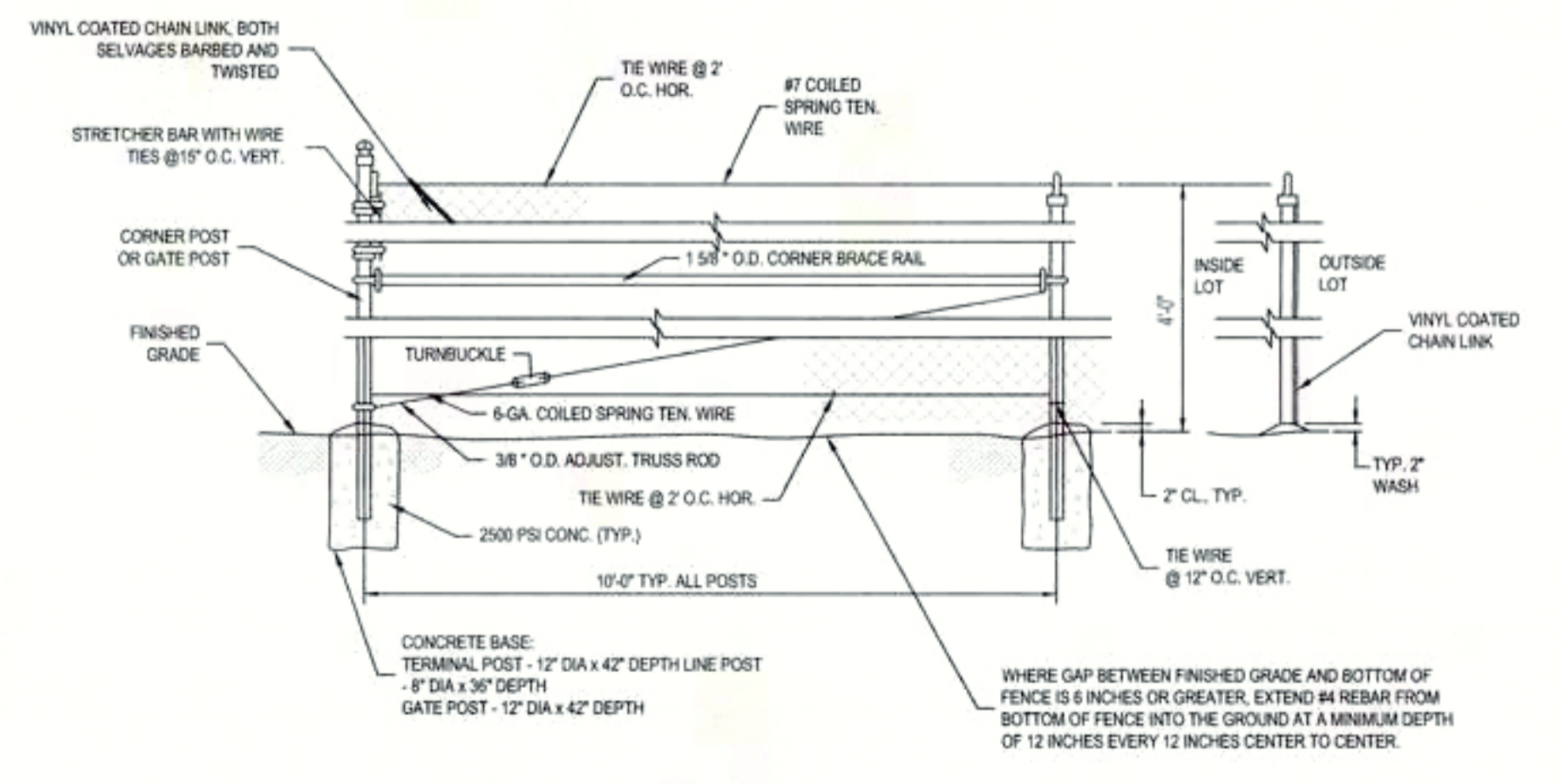
ORIFICE END-CAP DETAILS

NOTES:

- OCS CONFIGURATION IS BASED ON A 4' X 4' RECTANGULAR STRUCTURE. CONTRACTOR CAN SUBMIT SHOP DRAWINGS FOR APPROVED ALTERNATIVE OF A ROUND STRUCTURE.
- WEIR CONFIGURATION SHOWN FOR CONCEPTUAL PURPOSES ONLY.
- THREADED END CAP WITH ORIFICE REQ'D FOR ORIFICE DIA. < 4\"/>



STORMWATER MANAGEMENT FACILITY

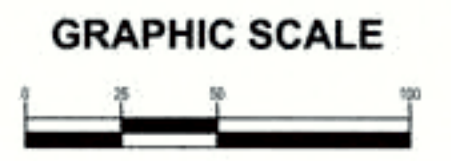
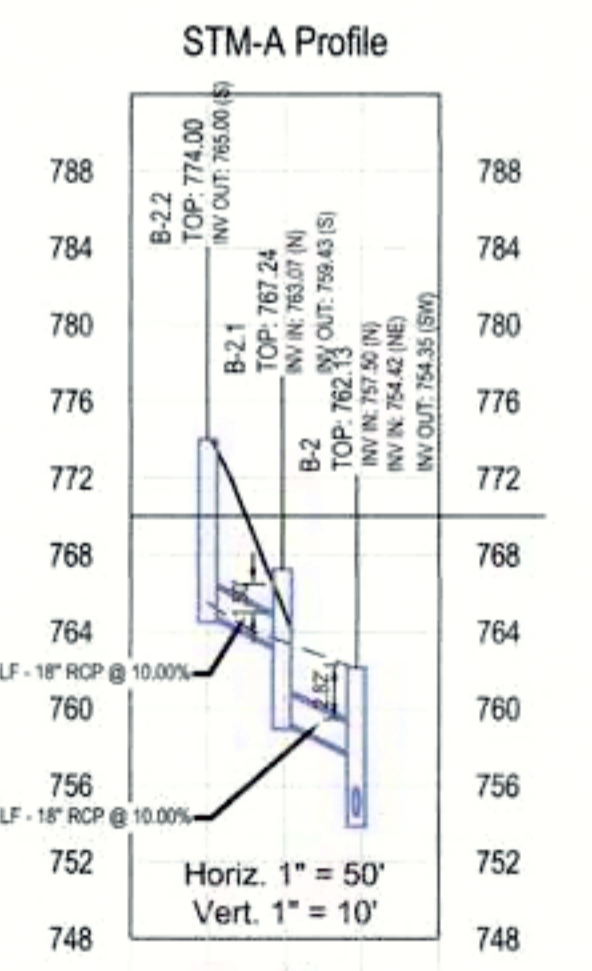


FENCE POSTS SIZE	SIZE (O.D. INCHES)	MATERIAL	WALL THICKNESS (INCHES)
TERMINAL/CORNER POST	3"	SCH 40, GALV. STEEL PIPE	0.203"
LINE POST	2-1/2"	SCH 40, GALV. STEEL PIPE	0.154"
TOP RAIL	1-5/8"	SCH 40, GALV. STEEL PIPE	0.140"
GATE POST	3"	SCH 40, GALV. STEEL PIPE	0.203"

POLYVINYL CHLORIDE (PVC) WITH PVC COATED MATERIALS, PAINT ALL POSTS, FITTINGS, HARDWARE AND ACCESSORIES AS INDICATED TO MATCH PVC COLOR. THE FABRIC SHALL BE HOT DIPPED GALVANIZED STEEL WIRE COMPLYING WITH ASTM A 302 AND COATED WITH A CONTINUOUS PVC SOAKING PROCESS (MINIMUM 1/8\"/>

VINYL COATED CHAIN LINK FENCE DETAIL
N.T.S.

NOTE: AT A 100 YEAR FLOW RATE OF 1.63 CFS, THE OUTLET PIPE VELOCITY AT SWCB B-2 IS 1.1 FPS.



CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING EACH PHASE OF STORMWATER INFRASTRUCTURE INSTALLATION AND INSPECTIONS

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- Land Surveying
- Development Consulting
- Landscape Architecture
- Environmental Permitting

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770.914.9394

PROJECT NAME
T & M HEATING & AIR
10100 ROBERTS WAY
COVINGTON, GA 30014

CLIENT NAME
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

REVISIONS

9/12/2023	REVISED PER CITY COMMENTS
10/11/2023	REVISED PER CITY COMMENTS

DATE	BY
7/10/2023	LJV

A3250.0001-CD-SWMF

DATE 7/10/2023

CONTRACT # A3250.0001

DRAWN BY LJV

1350 KEYS FERRY COURT
MCDONOUGH, GA 30253
770.914.9394



LEVEL 2 CERTIFICATION
CERT. #6000045834 EXP. 08/01/26

SHEET TITLE
STORMWATER MANAGEMENT FACILITY DETAILS & PROFILE

SHEET
6.0

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
MATERIALS AND RATES:

MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST OR BARK	2-3" DEEP (ABOUT 6-9 TONS/ACRE)
MATting OR NETTING	ACCORDING TO MANUFACTURERS RECOMMENDATIONS
CUTBACK ASPHALT	1200 GALLONS/ACRE (1/4 GAL./SQ YD)
POLYETHYLENE FILM	COMPLETELY COVER AREA

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)
SEEDING RATES FOR TEMPORARY SEEDINGS:

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE 2	PLANTING DATES		
			Mts.-L'stone	Piedmont	Coastal
RYE (ALONE)	3.9 POUNDS	3 bu.	7/15-12/1	8/15-1/1	9/1-3/1
(IN MIXTURES)	0.6 POUNDS	1/2 bu.			
ANNUAL RYEGRASS	0.9 POUND	40 lbs.	8/1-5/1	8/1-4/15	8/15-4/1
(ALONE)	0.9 POUNDS	40 lbs.			
ANNUAL LESPEDEZA (IN MIXTURES)	0.2 POUNDS	10 lbs.	2/1-5/1	2/15-5/1	1/15-3/15
WEEDING LOVEGRASS (ALONE)	0.1 POUNDS	4 lbs.			
(IN MIXTURES)	0.05 POUNDS	2 lbs.	3/15-6/15	3/15-6/15	2/15-6/15
SUDANGRASS	1.4 POUND	60 lbs.	4/1-9/1	4/1-9/1	3/1-8/1
BROWNTOP (ALONE)	0.9 POUNDS	40 lbs.			
(IN MIXTURES)	0.2 POUNDS	10 lbs.	4/1-7/1	4/1-7/15	4/1-7/15
WHEAT (ALONE)	4.1 POUNDS	3 bu.	9/1-1/1	9/1-1/1	9/15-2/1
(IN MIXTURES)	0.7 POUNDS	1/2 bu.			

- TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDING TOO HEAVILY.
- REDUCE SEEDING RATES BY 50% WHEN DRILLED.
- MULCH IS REQUIRED FOR ALL VEGETATION APPLICATIONS AT THE SAME RATE AS FOR DSI.

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

FERTILIZER TYPE	FERTILIZER RATE (lbs./acres)	FERTILIZER RATE (lbs./sq.ft.)	SEASON
10-10-10	1000	0.25	FALL

SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
Bermuda grass	Common Tifway Tifgreen Tifdawn	M-L,P,C P,C P,C	WARM WEATHER
Bahiagrass	Pensacola	P,C	WARM WEATHER
Centipede	----	P,C	WARM WEATHER
St. Augustine	Common Bitterblue Raleigh	C	WARM WEATHER
Zoysia	Emerald Myer	P,C	WARM WEATHER
Tall Fescue	Kentucky	M-L,P	COOL WEATHER

FERTILIZER REQUIREMENTS FOR SOD

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	NITROGEN TOP DRESSING RATE (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	30
Warm season grasses	First	6-12-12	800	50-100
	Second	6-12-12	400	30

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP) (Ss)

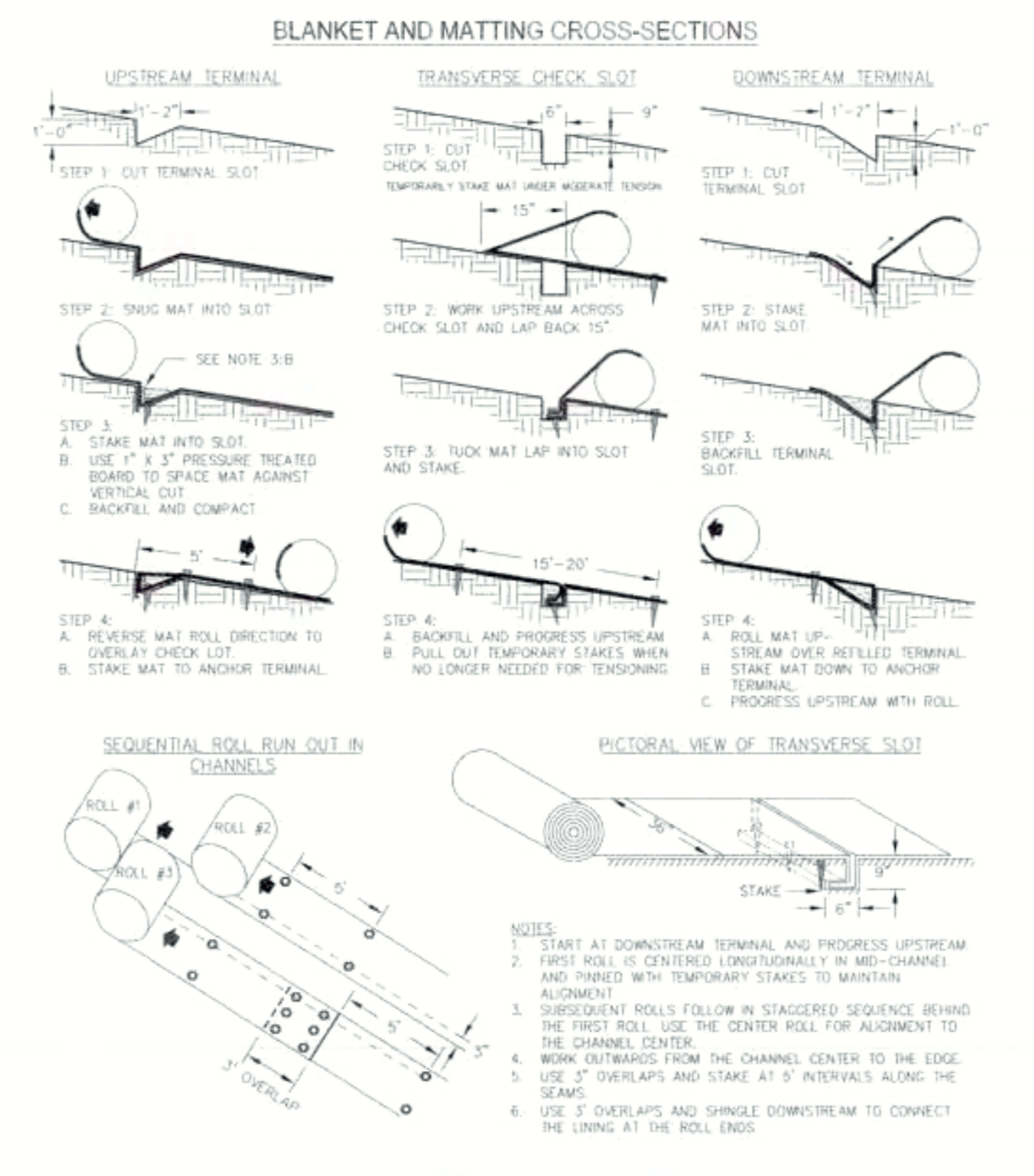


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

6-123

GSWCC (Amended - 2013)

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

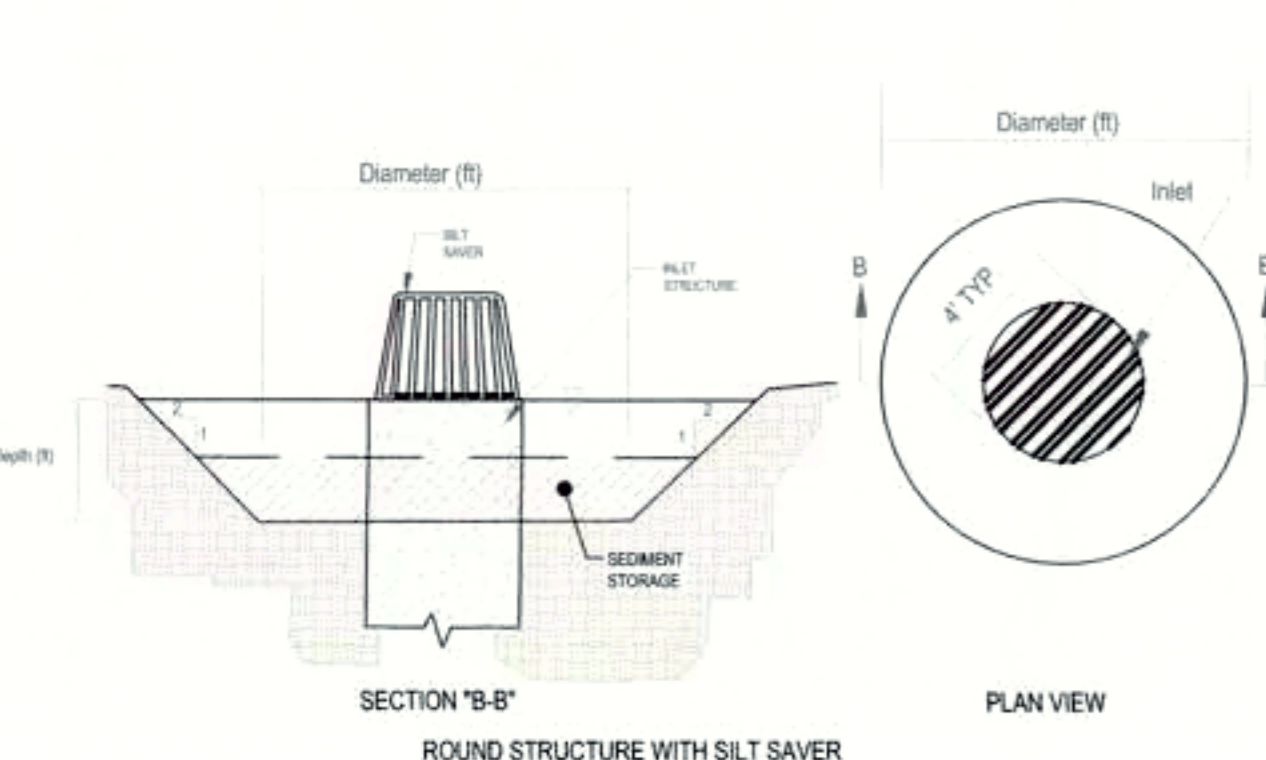
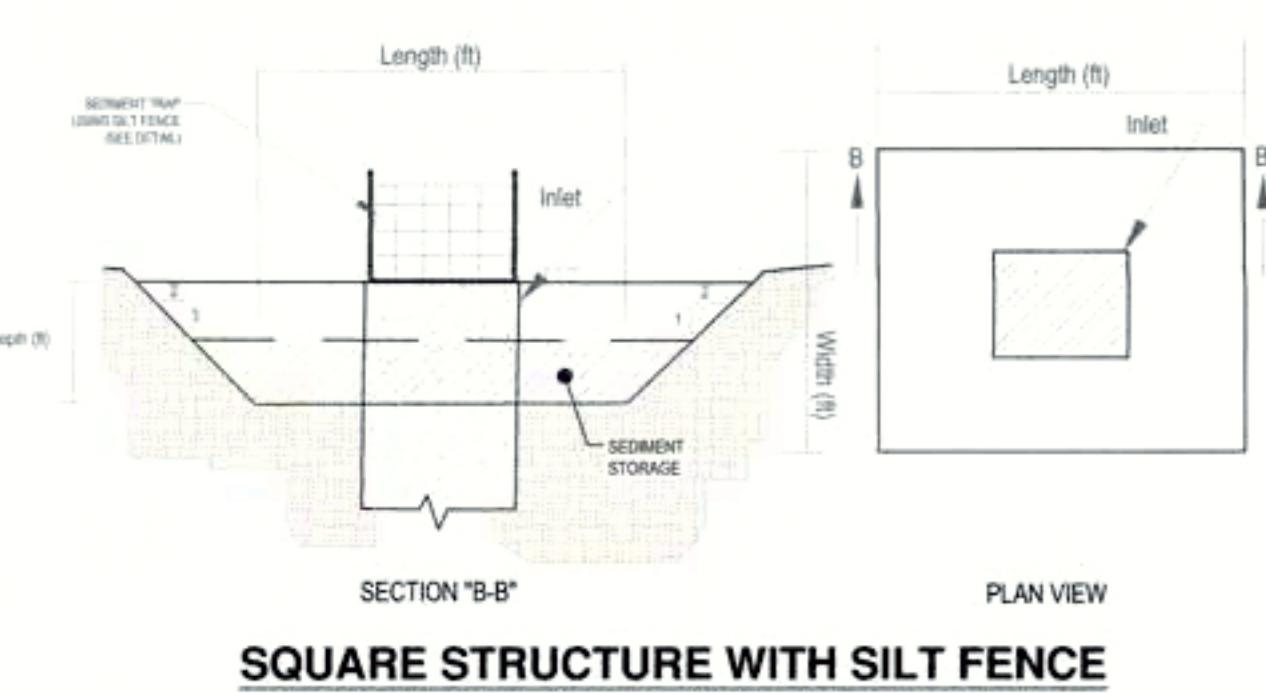
NOTE: AGRICULTURAL LIME IS REQUIRED FOR ALL GRADED AREAS AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS DETERMINE OTHERWISE.

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE 1	PLANTING DATES			YEARS TO APPLY FERTILIZER	FERTILIZER ANALYSIS			N TOP-DRESSING RATE *	
			Mts.-L'stone	Piedmont	Coastal		N	P	K		
WEEDING LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	0.1 lbs.	4 lbs.	3/15-6/15	3/1-6/15	2/1-6/15	FIRST	6	12	12	1500	50
SERICEA LESPEDEZA SEEDBEARING HAY WITH OVERSEEDED WEEDING LOVEGRASS	0.05 lbs.	2 lbs.	3/15-6/15	3/1-6/15	2/1-6/15	SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 lbs.	10 lbs.	3/1-7/1	2/15-7/1	2/15-6/15	FIRST	6	12	12	1500	50
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	1.4 lbs.	60 lbs.	3/15-6/15	3/1-6/15	2/15-6/15	SECOND	0	10	10	1000	-
TALL FESCUEGRASS AND CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	1.1 lbs.	50 lbs.	8/1-11/1, 3/1-4/15	8/15-11/1	10/15-2/1	FIRST	6	12	12	1500	0-50 IN SPRING
	1.4 lbs.	40 lbs.	3/15-6/15	3/1-6/15	2/15-6/1	SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS	0.2 lbs.	10 lbs.	3/1-7/1	2/15-7/1		FIRST	6	12	12	1500	50-100
						SECOND	10	10	10	800	50-100

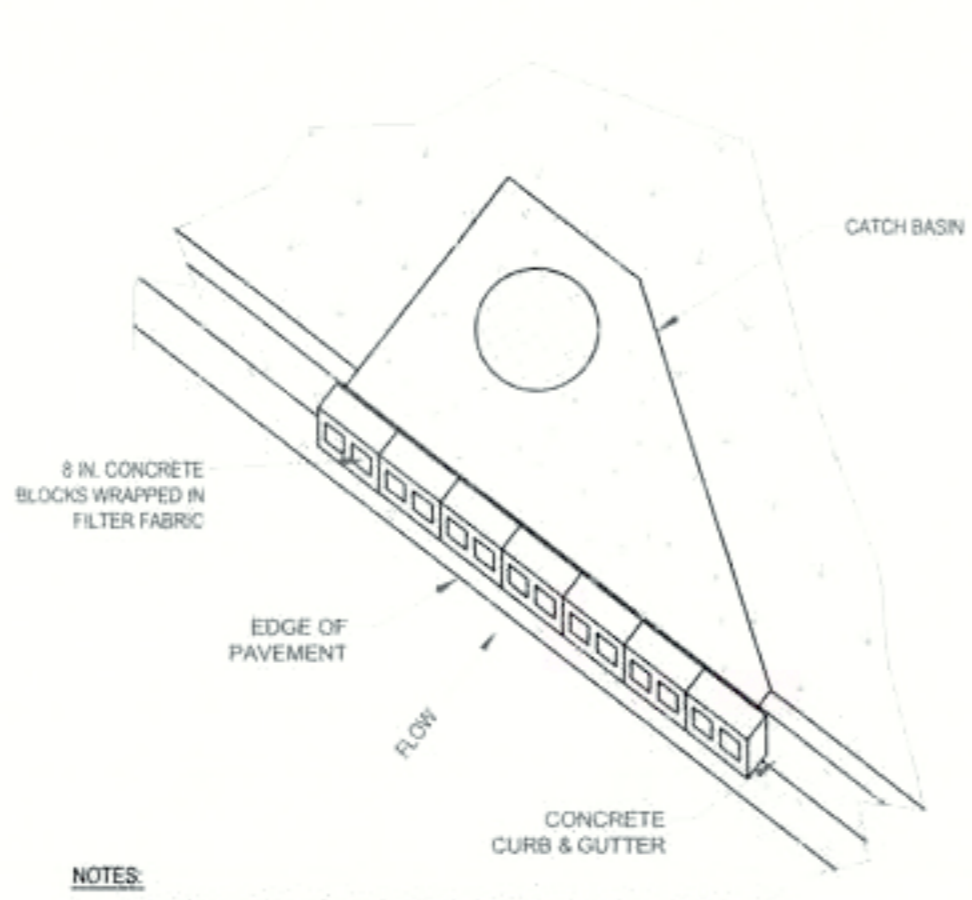
- REDUCE SEEDING RATES BY 50% WHEN DRILLED.
- FERTILIZER/N TOP-DRESSING RATES INDICATED ARE IN LBS/ACRE.
- MULCH IS REQUIRED FOR ALL VEGETATION APPLICATIONS AT THE SAME RATE FOR DSI.

NOTES:

- SEE EXCAVATED INLET SEDIMENT TRAP CALCULATIONS ON SHEET C12 FOR REQUIRED LENGTH AND WIDTH OR DIAMETER OF REQUIRED EXCAVATED SEDIMENT STORAGE AREA.



Sd2-F EXCAVATED SEDIMENT TRAP DETAIL
N.T.S.



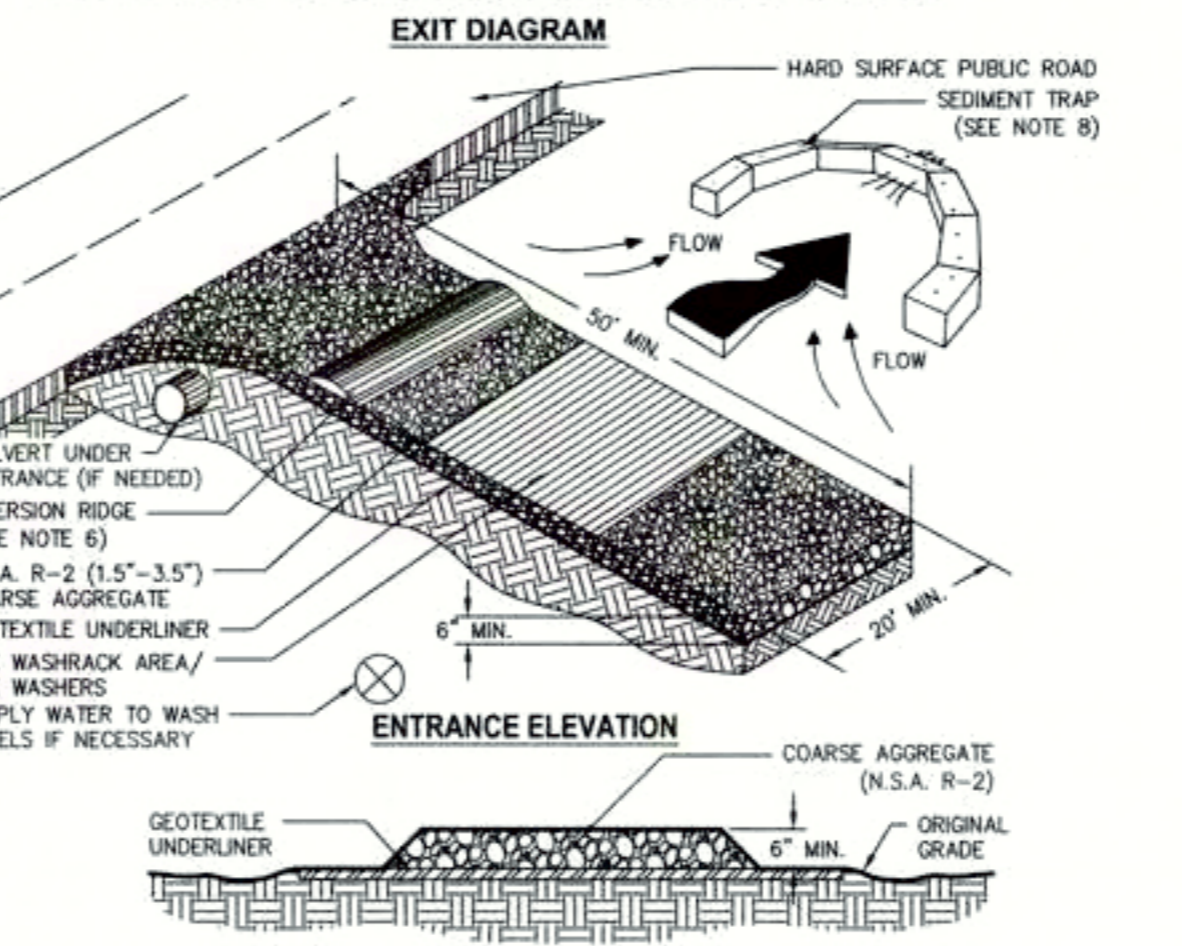
Sd2-P CURB INLET FILTER (PIGS-IN-A-BLANKET)
N.T.S.

- NOTES:**
- INSTALL FILTER AFTER ASPHALT PAVEMENT INSTALLATION.
 - WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
 - FACE OPENINGS IN BLOCKS OUTWARD.
 - INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

MAINTENANCE
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled,

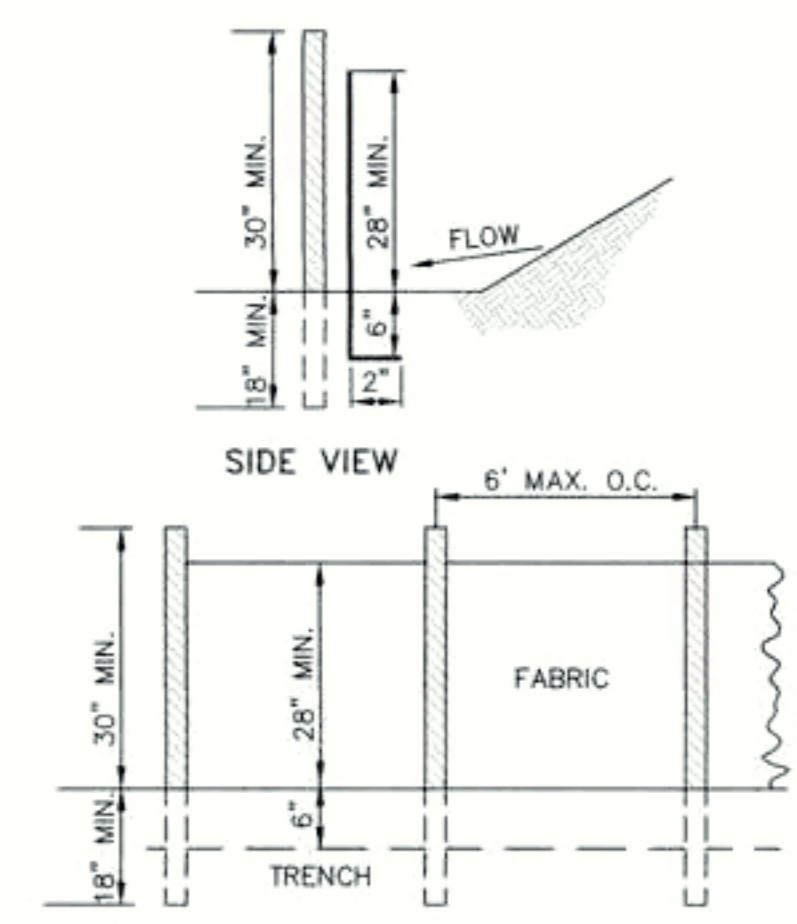
dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

CRUSHED STONE CONSTRUCTION EXIT



- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CONSTRUCTION ACCESS PAD
N.T.S.



Sd1-NS SILT FENCE - TYPE NON-SENSITIVE (A&B)
N.T.S.

- NOTE:**
USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

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- Land Surveying
- Development Consulting
- Landscape Architecture
- Environmental Permitting

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10100 ROBERTS WAY
COVINGTON, GA 30014

HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, LA 70506

PROJECT NAME

CLIENT NAME

REVISIONS

NO.	DATE	REVISION
1	9/12/2023	REVISED PER CITY COMMENTS
2	10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-CVR-DETAILS

DATE: 7/10/2023

CONTRACT #: A3250.0001

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LSP #1139



LEVEL 2 CERTIFICATION
CERT. #0000045834 EXP. 08/01/25

SHEET TITLE

EROSION CONTROL
DETAILS SHEET 1

SHEET

7.1



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PROJECT NAME
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COVINGTON, GA 30014

CLIENT NAME
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

REVISIONS

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DATE 7/10/2023
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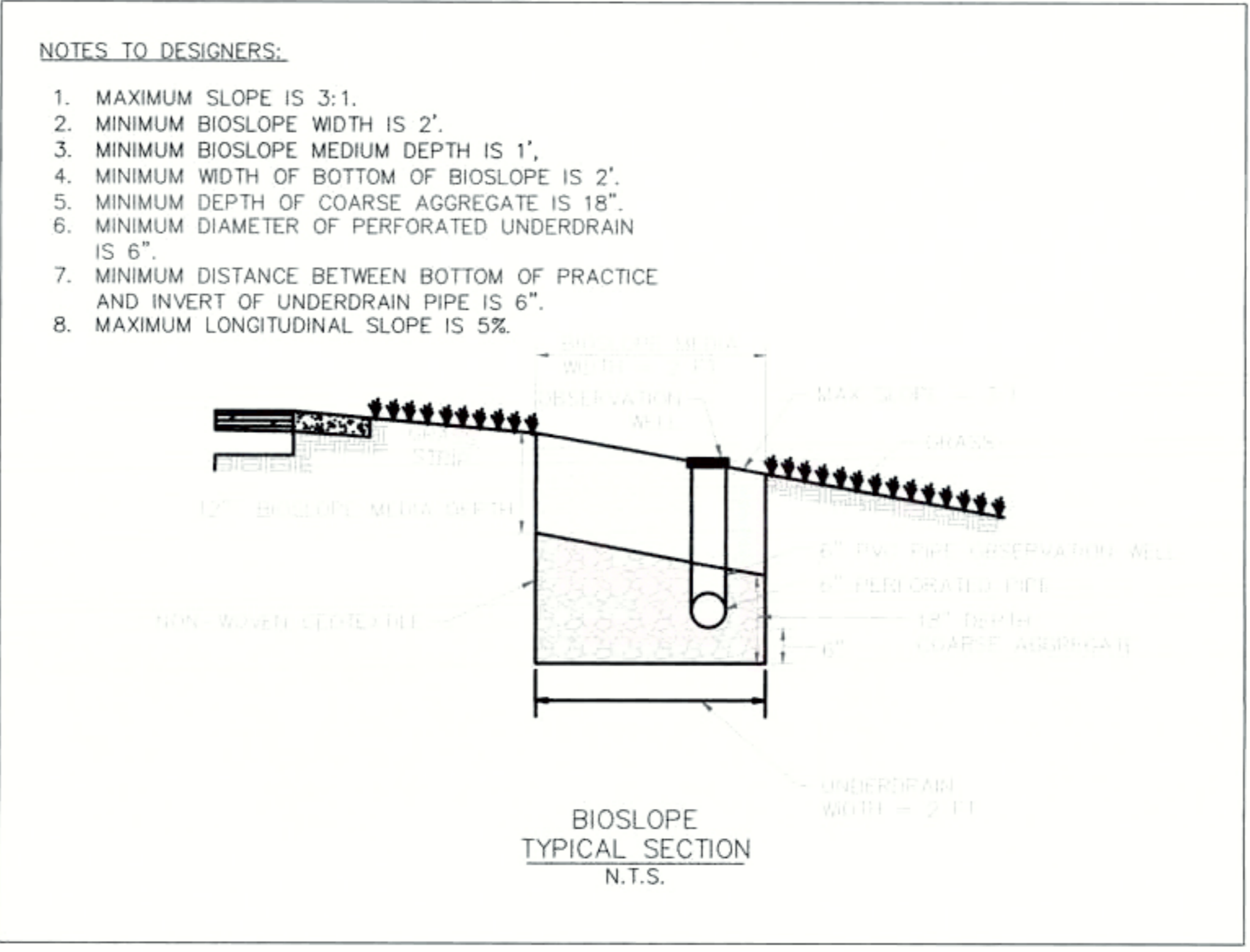
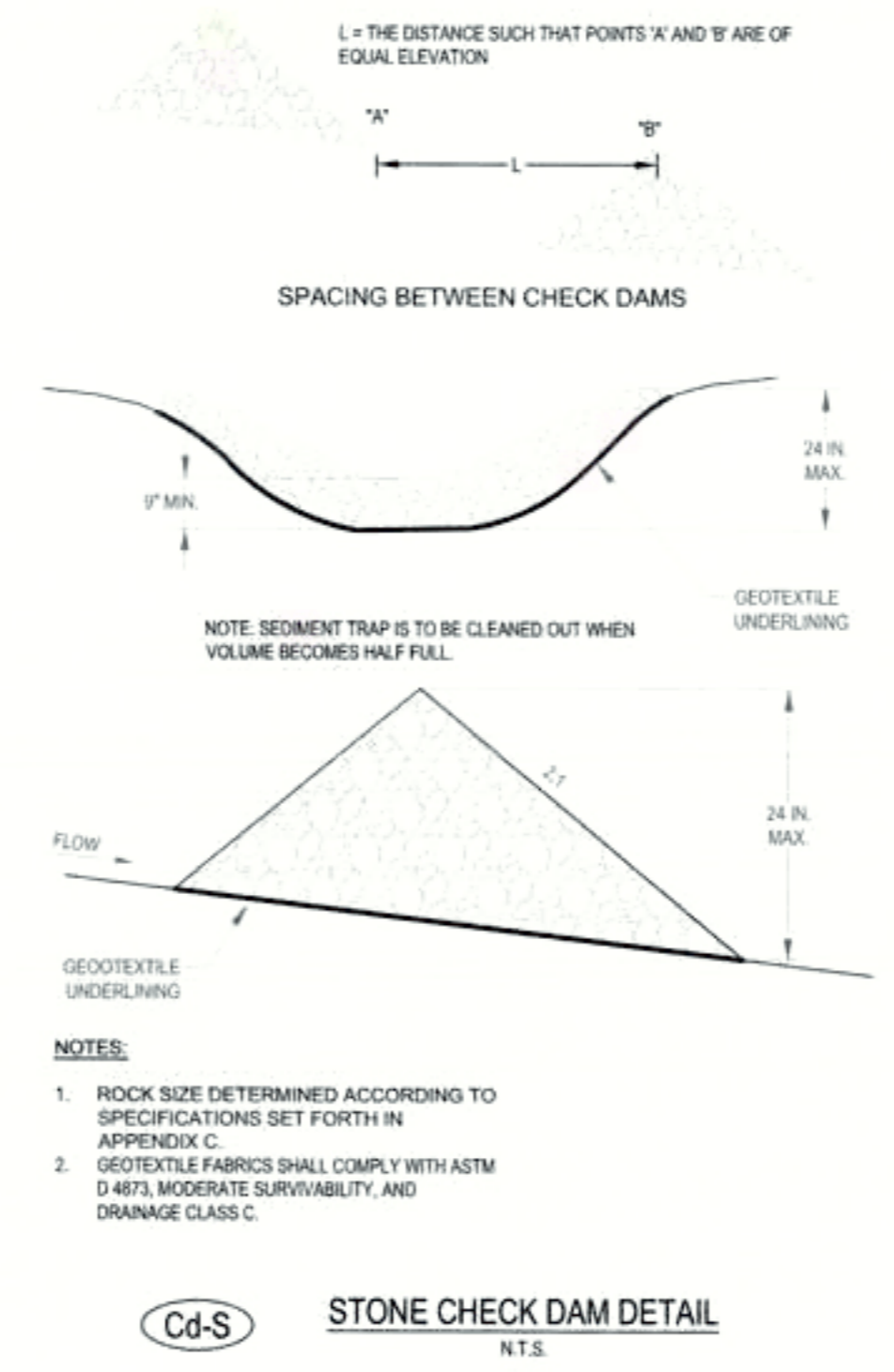
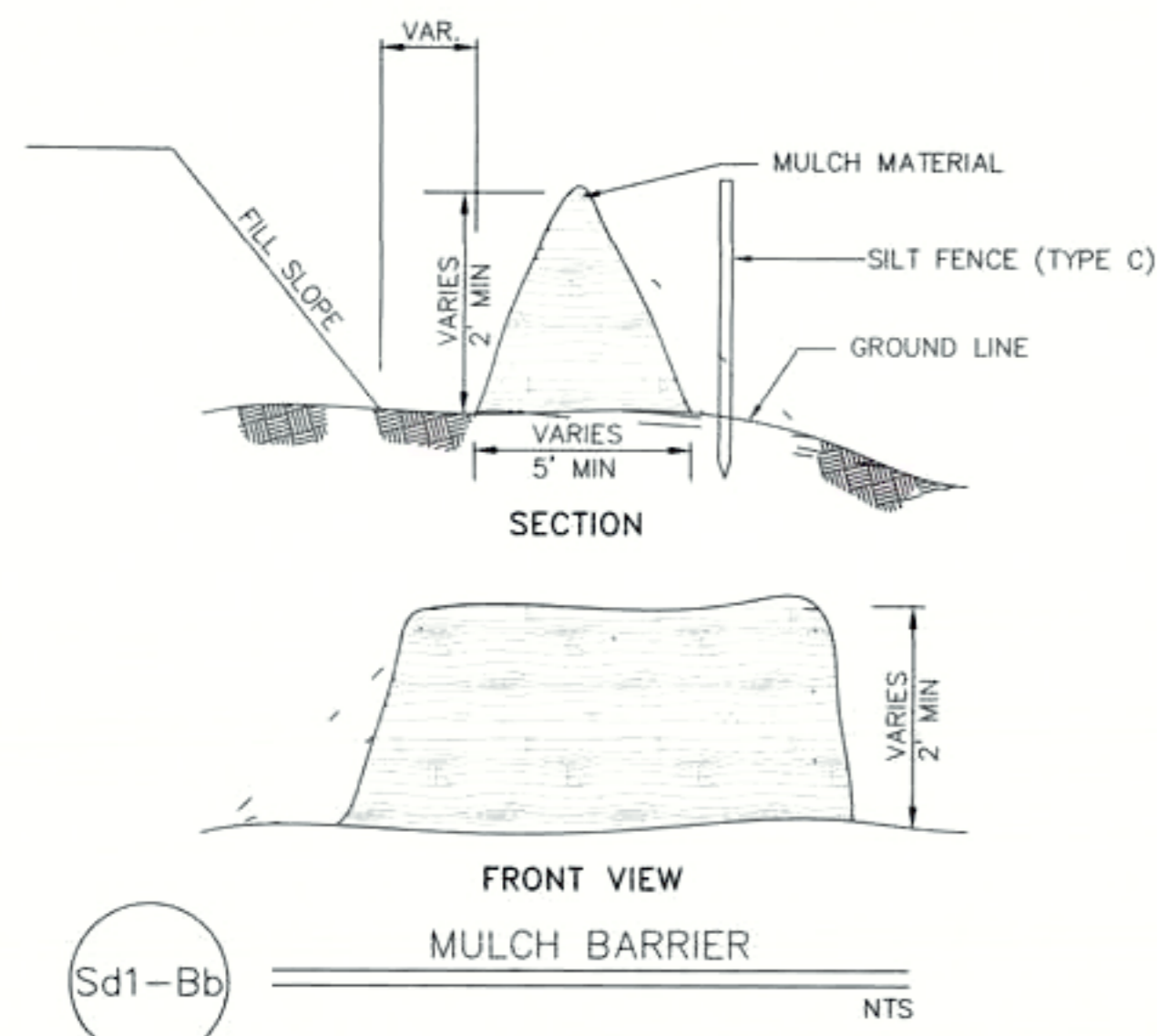
REGISTERED PROFESSIONAL ENGINEER
DATELL S. DELANEY

LEVEL 2 CERTIFICATION

CERT. #0000045834 EXP. 08/01/25

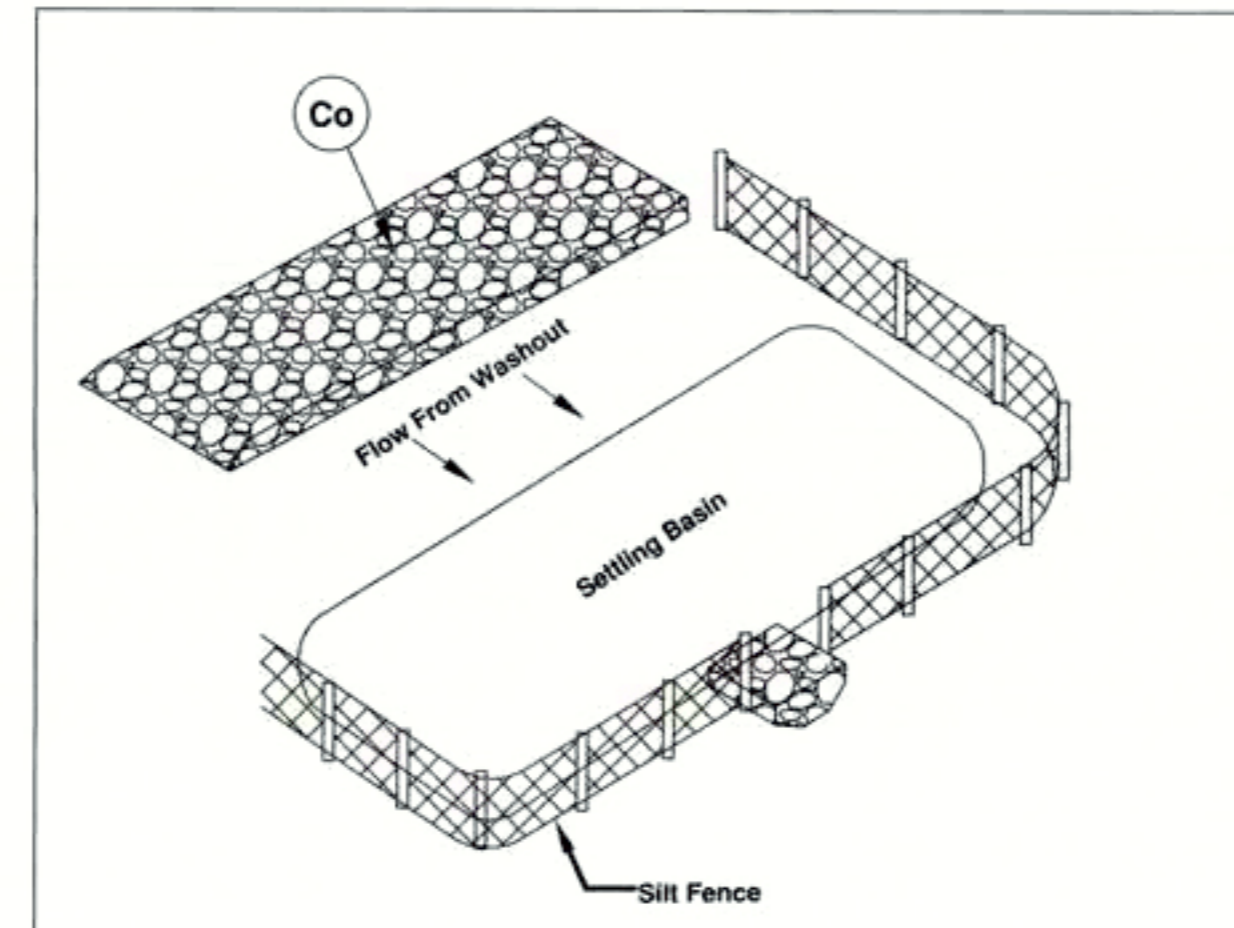
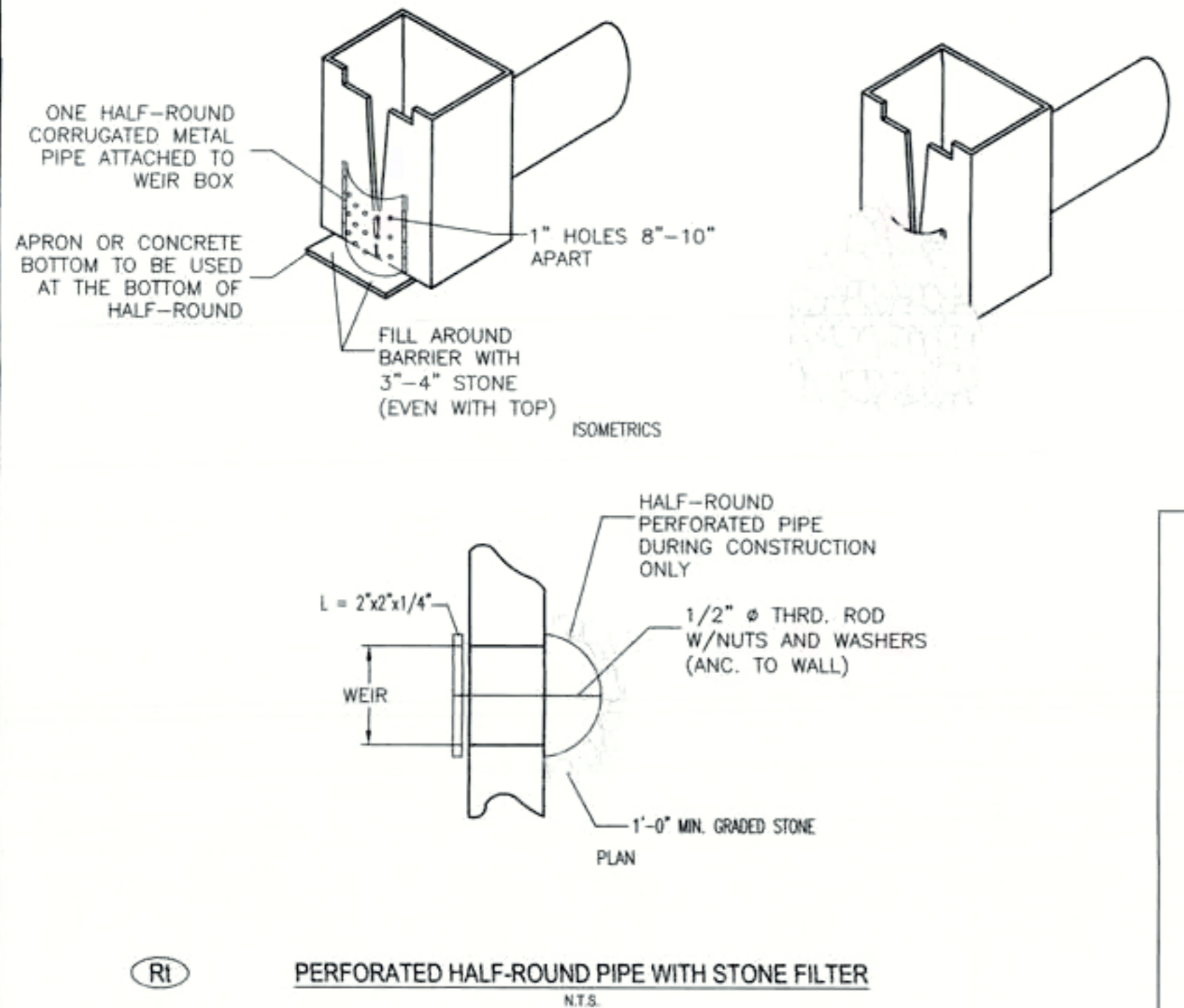
SHEET TITLE
**EROSION CONTROL
DETAILS SHEET 2**

SHEET
7.2



NOTES TO DESIGNERS:

1. MAXIMUM SLOPE IS 3:1.
2. MINIMUM BIOSLOPE WIDTH IS 2'.
3. MINIMUM BIOSLOPE MEDIUM DEPTH IS 1'.
4. MINIMUM WIDTH OF BOTTOM OF BIOSLOPE IS 2'.
5. MINIMUM DEPTH OF COARSE AGGREGATE IS 18".
6. MINIMUM DIAMETER OF PERFORATED UNDERDRAIN IS 6".
7. MINIMUM DISTANCE BETWEEN BOTTOM OF PRACTICE AND INVERT OF UNDERDRAIN PIPE IS 6".
8. MAXIMUM LONGITUDINAL SLOPE IS 5%.



CONCRETE TRUCK WASHDOWN
NTS

DESIGNATE WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.

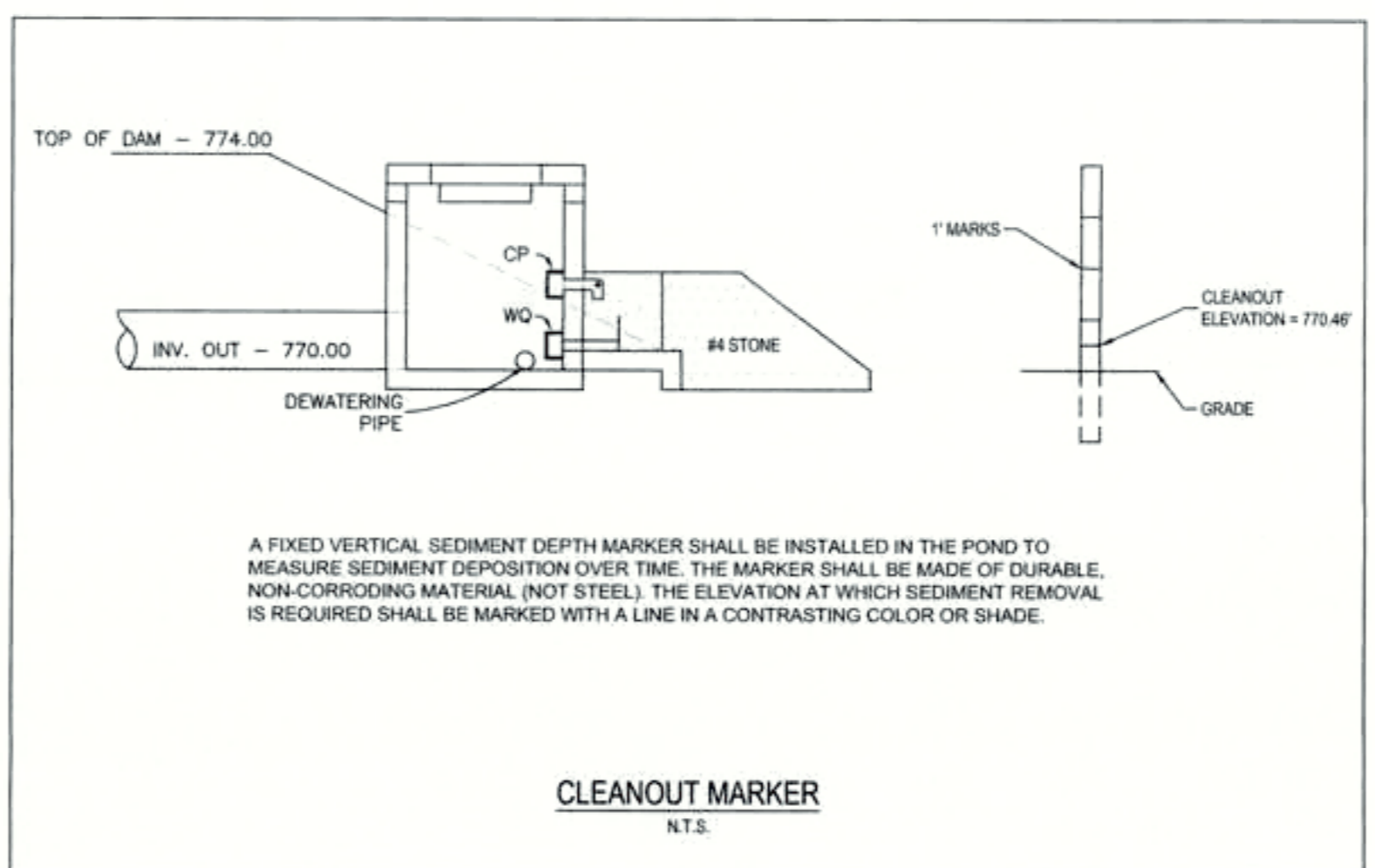
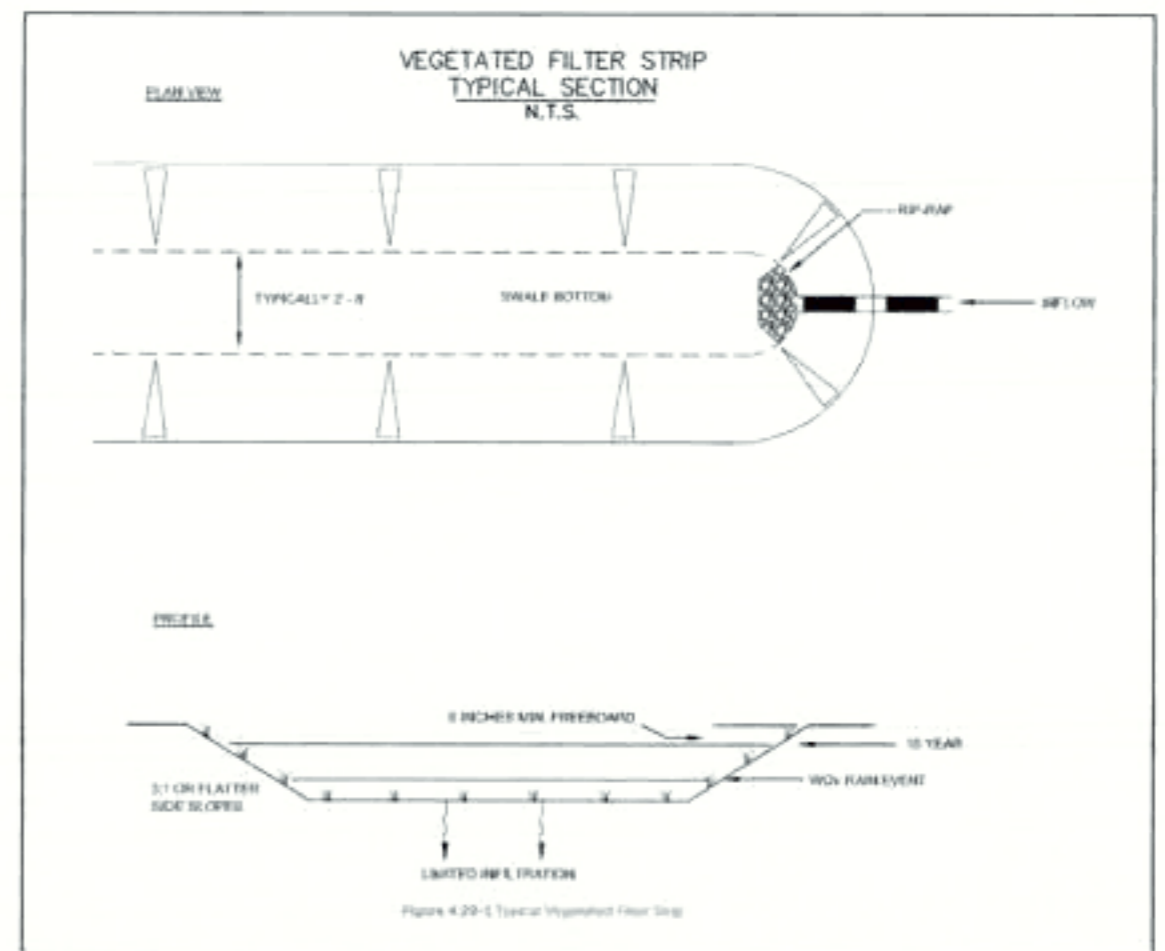
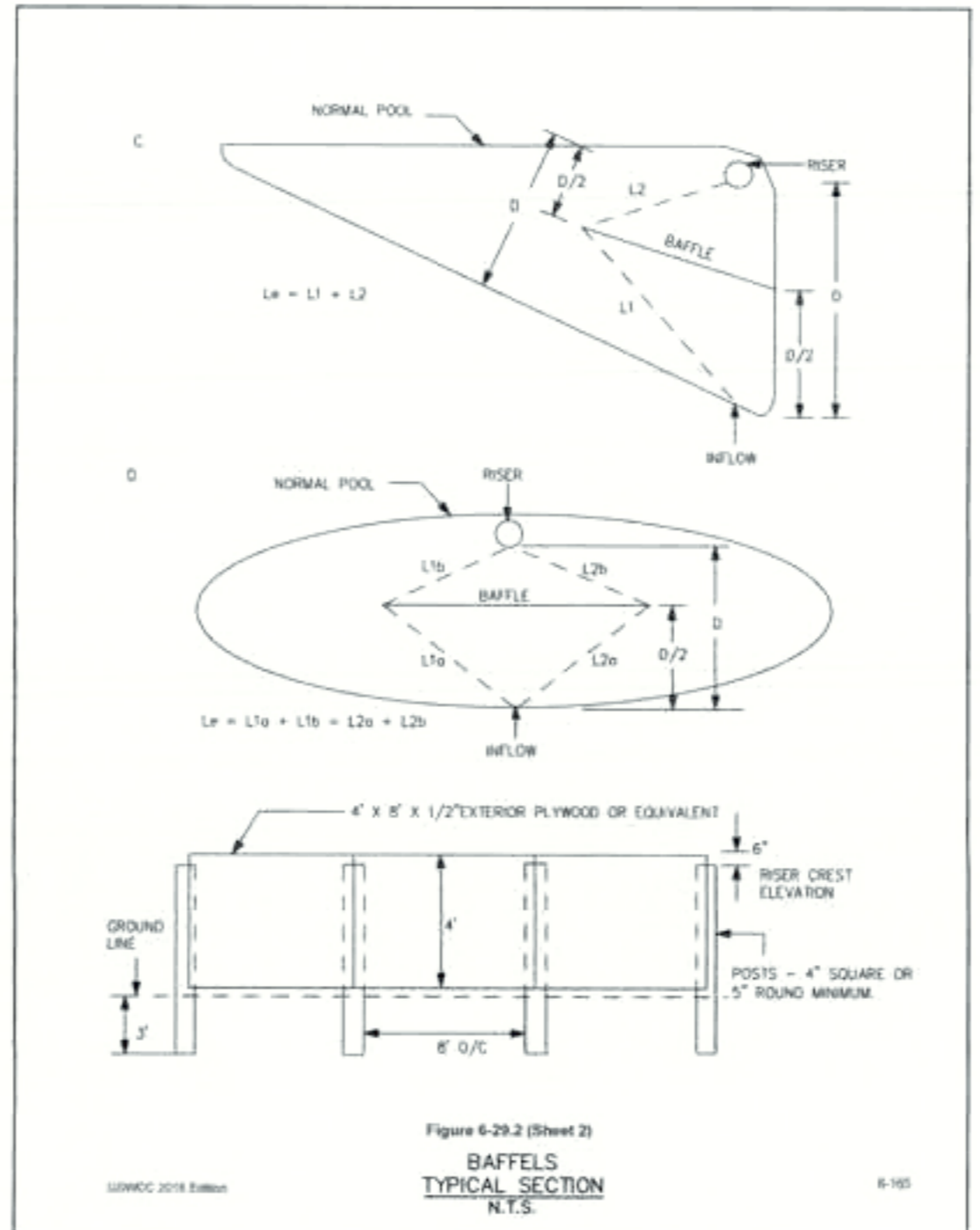
ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.

WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM

ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.

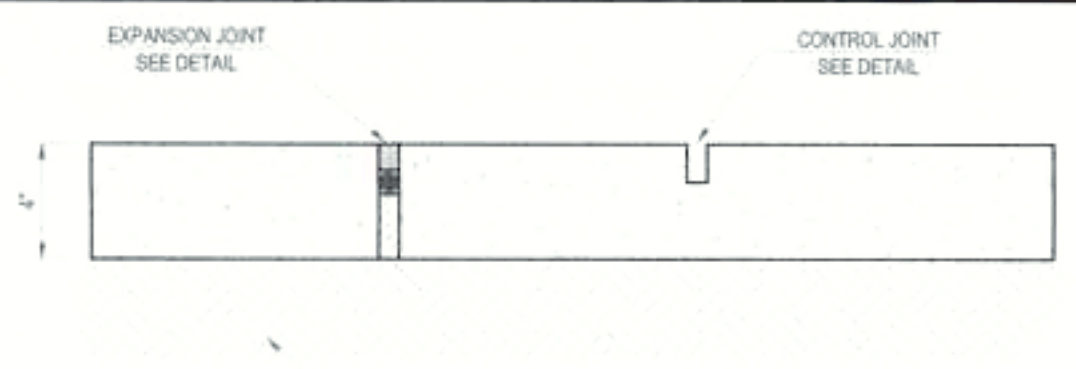
DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.

NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.



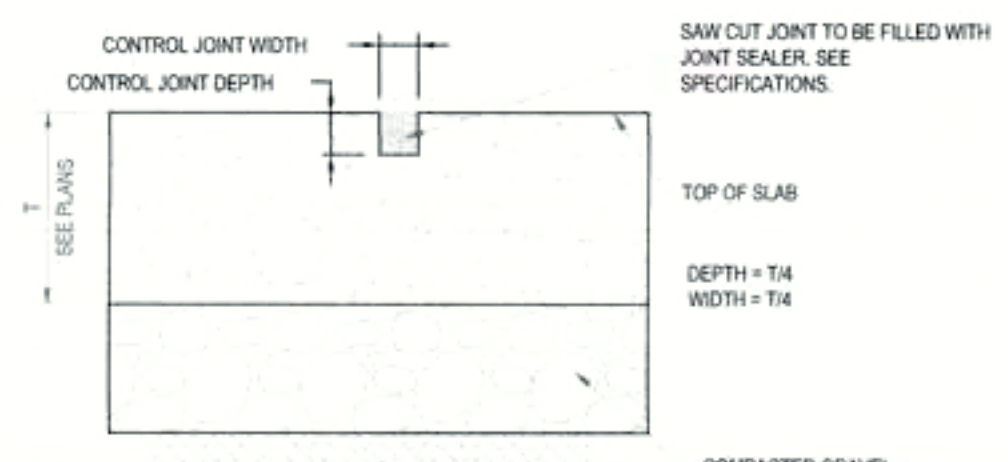
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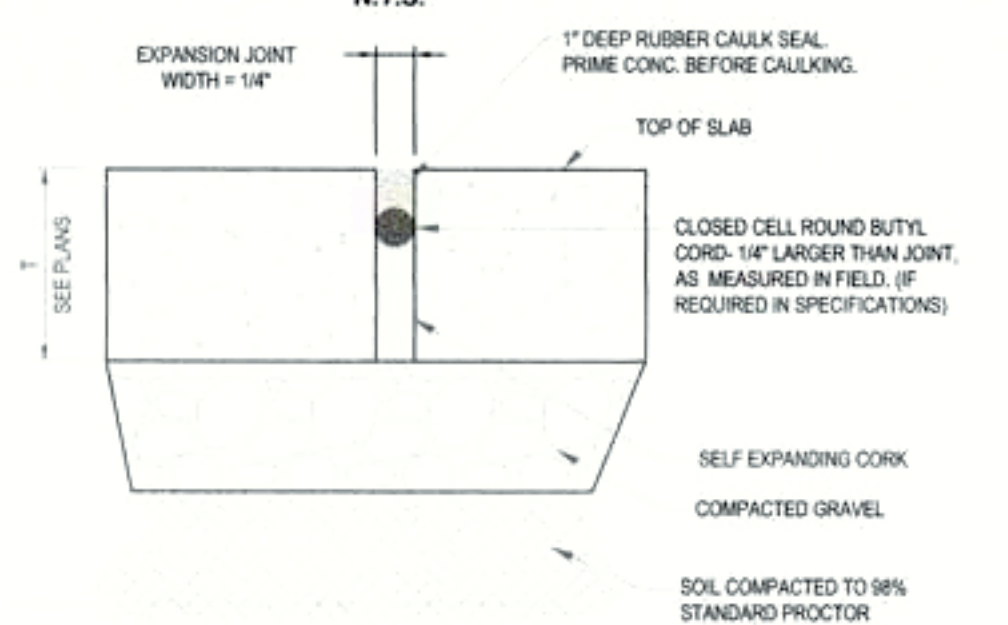
NOTE: EXPANSION JOINTS REQUIRED AT ALL STRUCTURES (I.E. WALLS, CURB, ETC.), MAX. SPACING TO BE 20 FT. CONTROL JOINTS TO BE SPACED EVERY 8 FT. (SCORE WITHIN 12 HOURS OF POUR); 3000 P.S.I. CONCRETE, 2 INCH SLUMP, WITH BROOM FINISH.

CONCRETE SIDEWALK DETAIL
N.T.S.



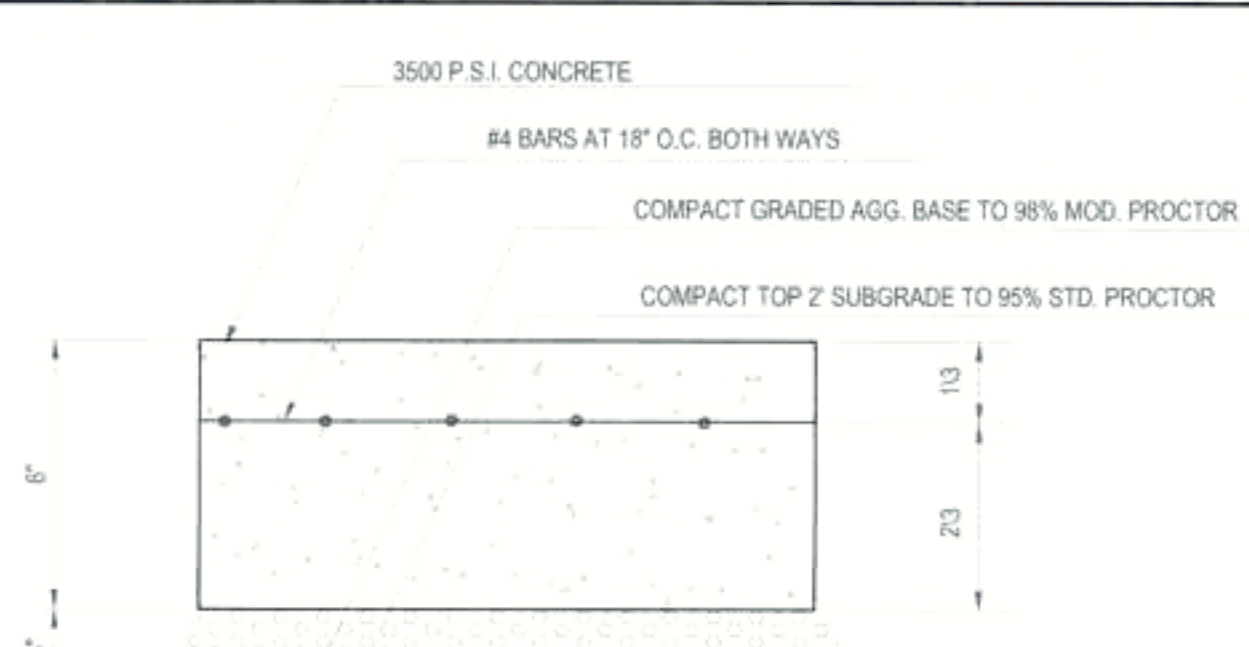
TO BE INSTALLED AT MAXIMUM 15 FT SPACING

CONTROL JOINT DETAIL
N.T.S.

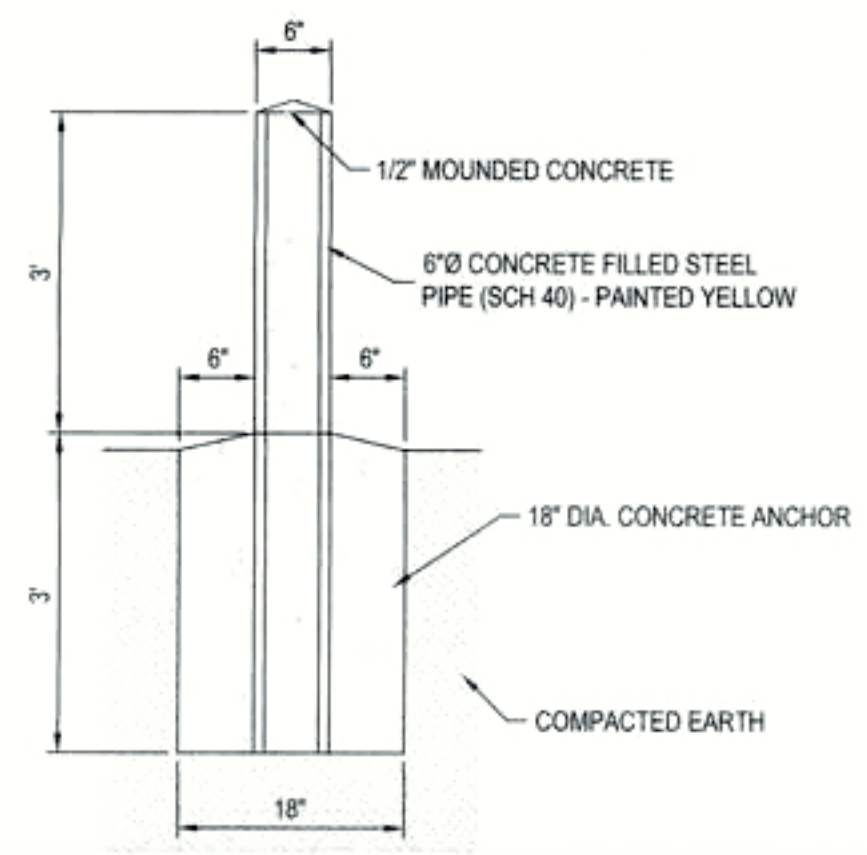


INSTALL WHERE PAVEMENT MEETS DOCK, WALLS, & MANHOLES TO BE INSTALLED AT MAXIMUM 40 FT SPACING

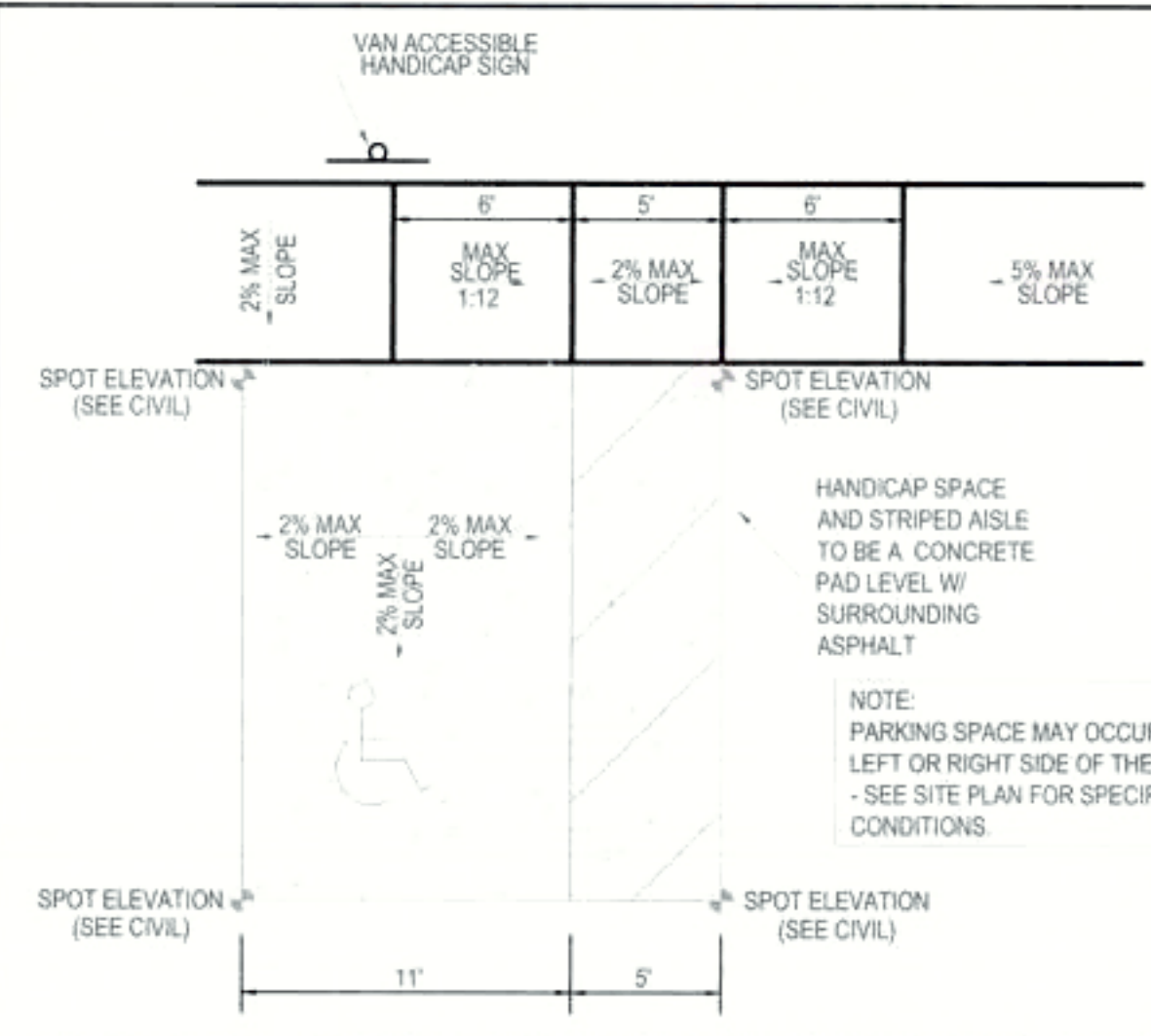
EXPANSION JOINT DETAIL
N.T.S.



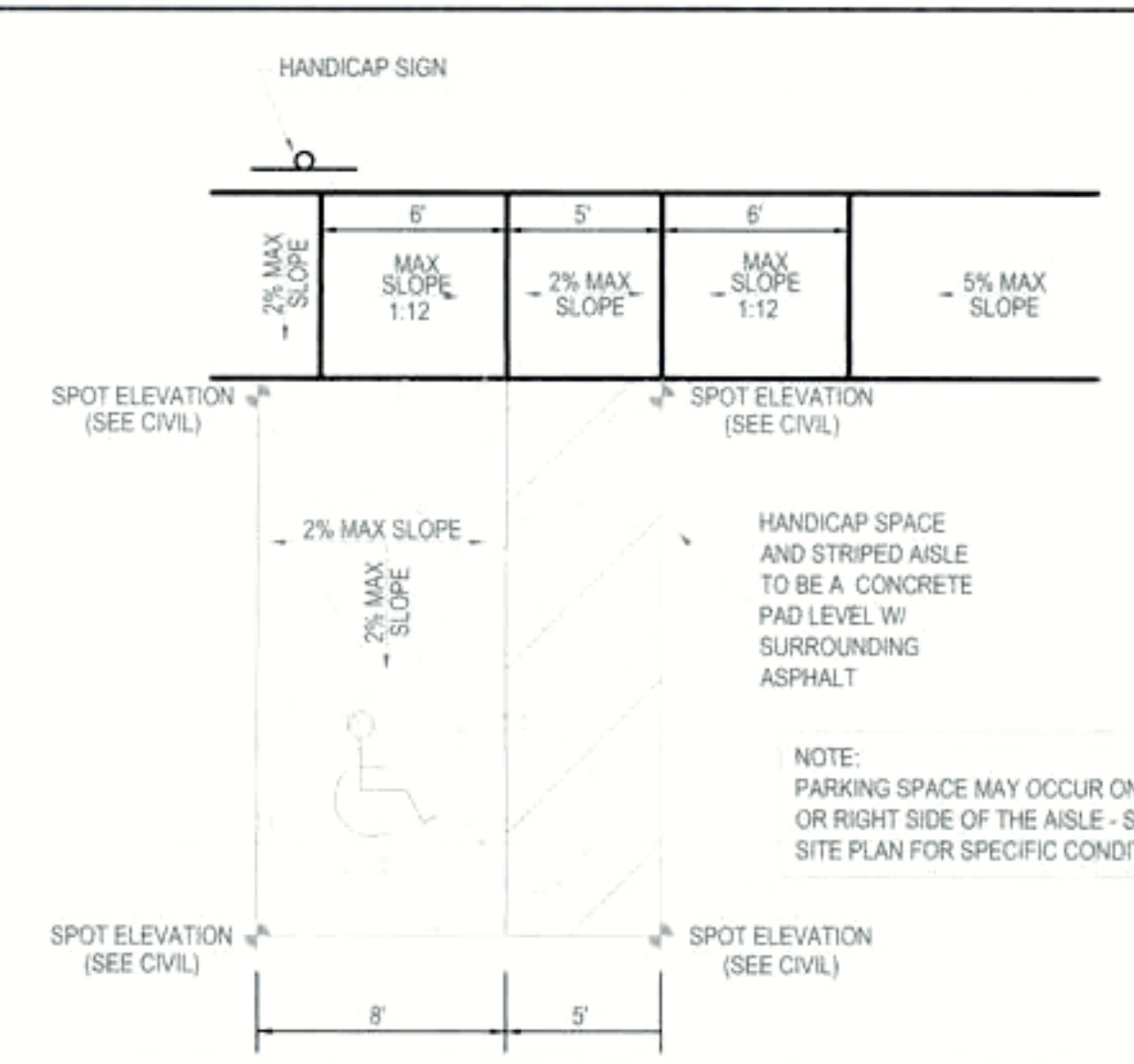
CONCRETE PAVEMENT DETAIL
NOT TO SCALE



PIPE BOLLARD DETAIL
NOT TO SCALE



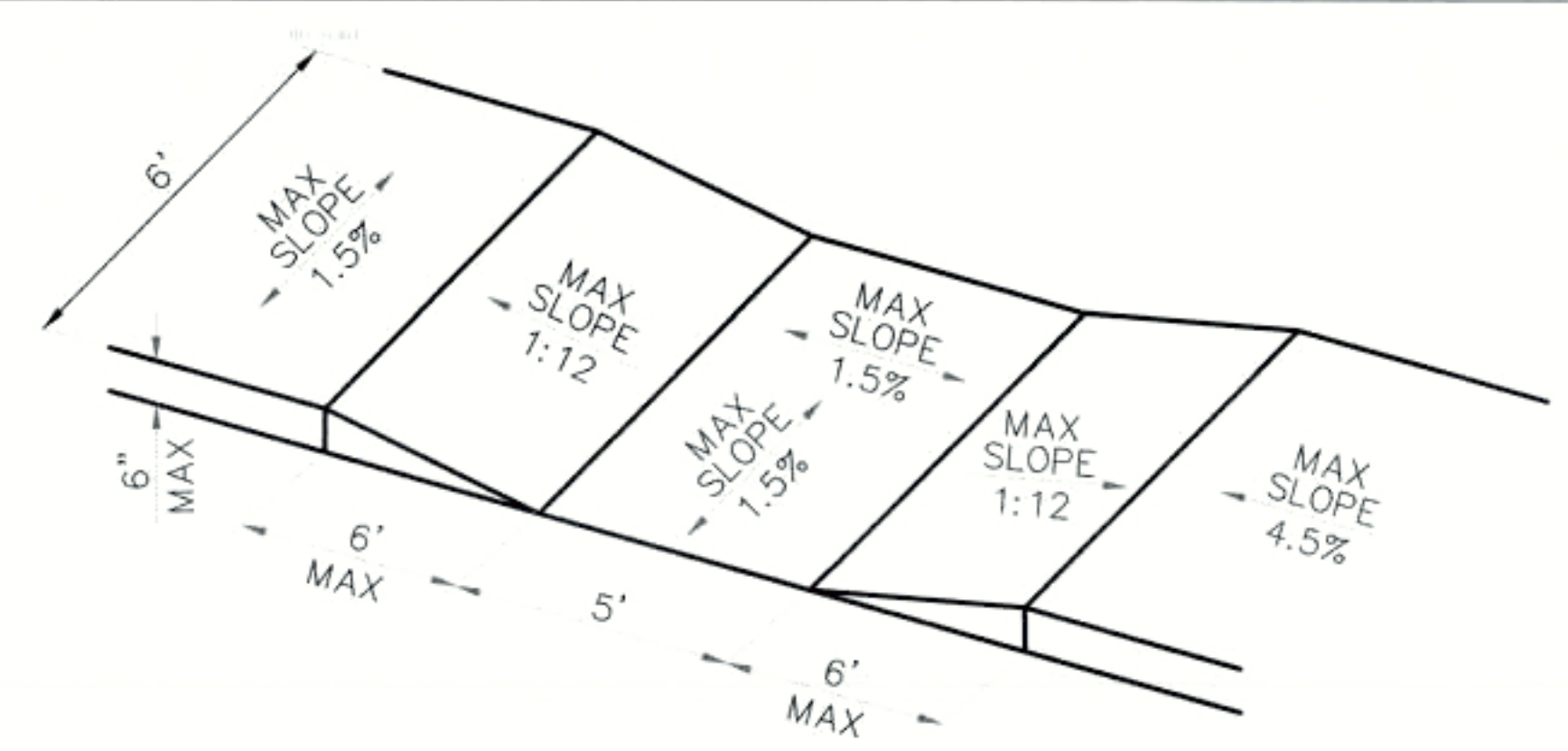
VAN ACCESSIBLE HANDICAP PARKING SPACE DETAIL
NOT TO SCALE



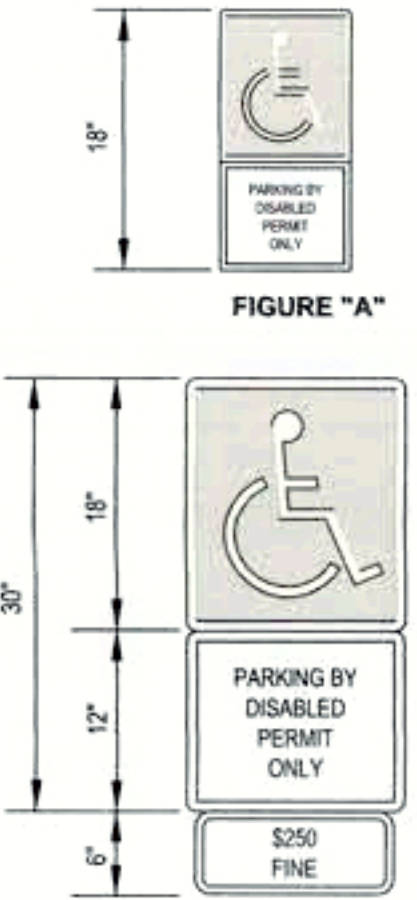
HANDICAP PARKING SPACE DETAIL

HANDICAP ACCESS NOTES

1. ANY CHANGES TO THE ACCESSIBLE ROUTE SHOWN ON THESE PLANS MUST BE APPROVED BY THE ARCHITECT.
2. ALL HANDICAP PARKING SPACES AND STRIPED AISLES TO HAVE NO MORE THAN A 1.5% SLOPE IN ALL DIRECTIONS.
3. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 4.5% SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1.5% SLOPE FOR THE WIDTH OF THE SIDEWALK.
4. IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.

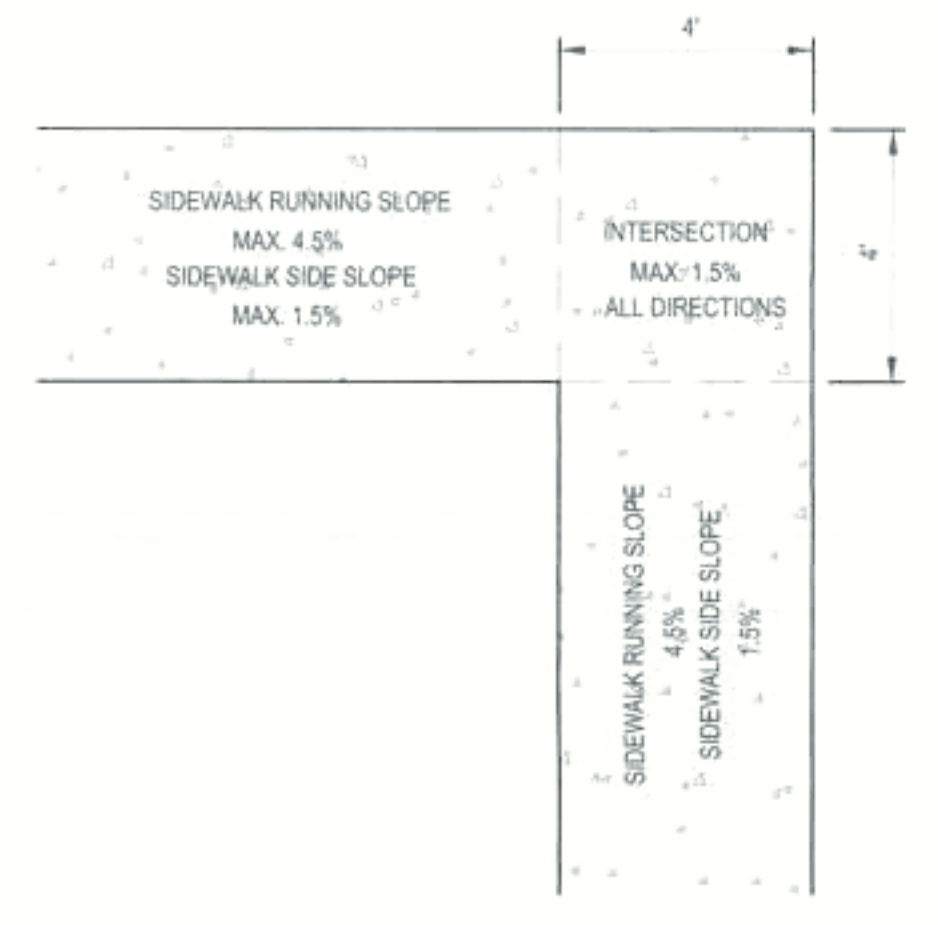


HANDICAP RAMP DETAIL
NOT TO SCALE

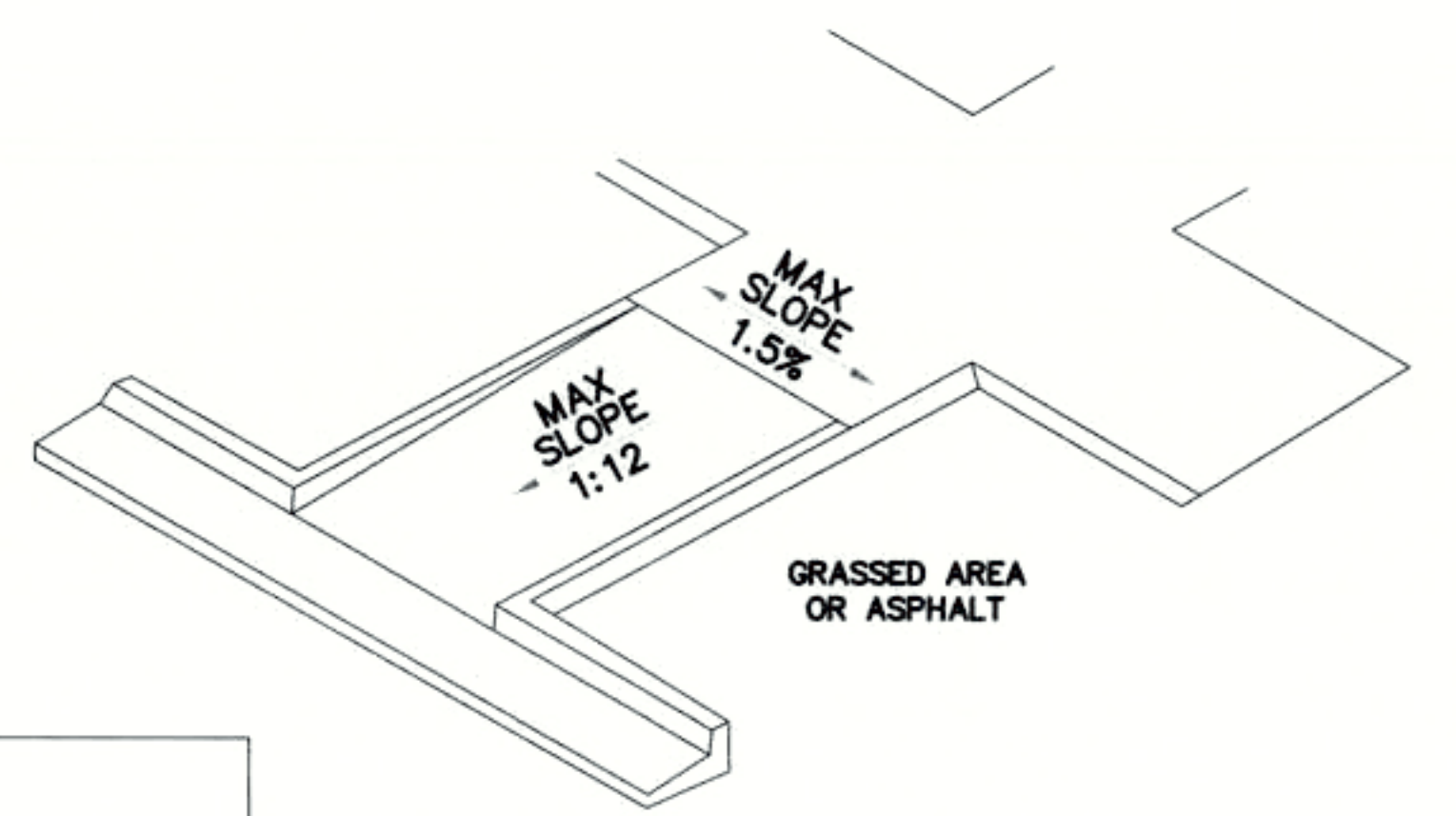


- TOP PORTION OF FIGURE "A" AND "B" SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
- BOTTOM PORTION OF FIGURE "A" AND "B" SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
- FIGURE "A" AND "B" MAY BE FABRICATED ON ONE PANEL OR TWO.
- FIGURE "A" MAY BE SUBSTITUTED FOR FIGURE "B" IN AREAS WHERE SPACE IS LIMITED.
- SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT (7 FT. FROM PAVEMENT TO BOTTOM OF SIGN.)

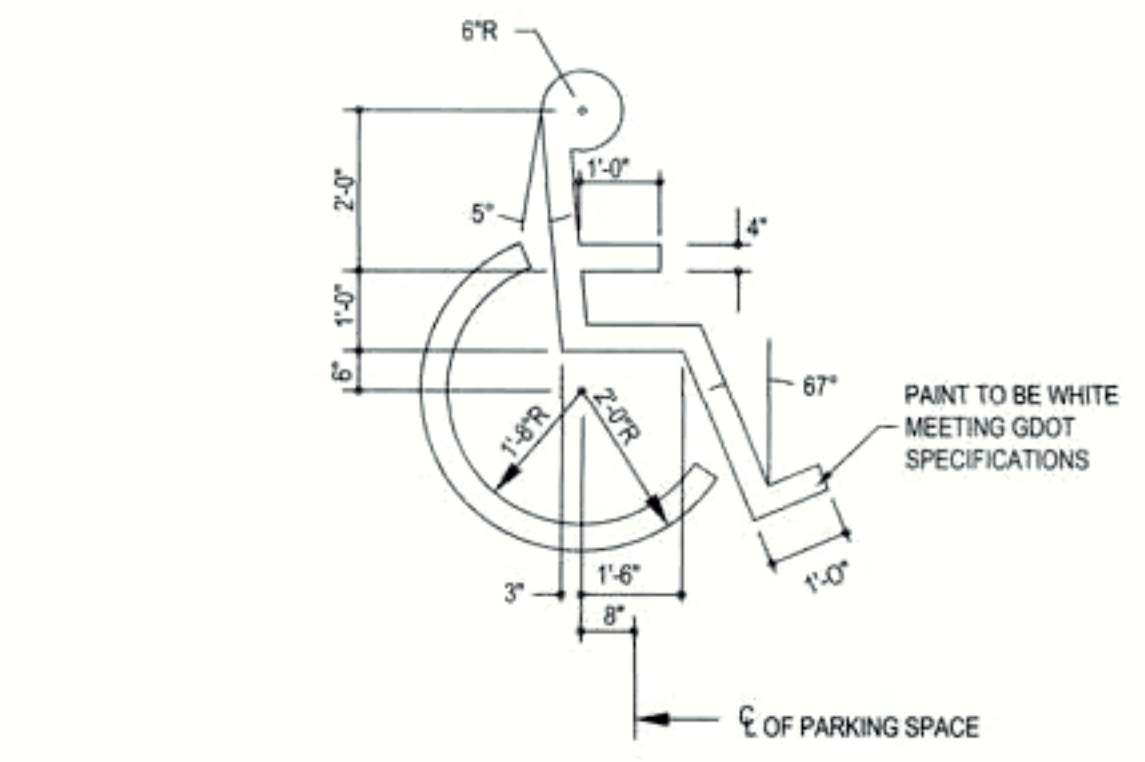
HANDICAPPED PARKING SIGNAGE
NOT TO SCALE



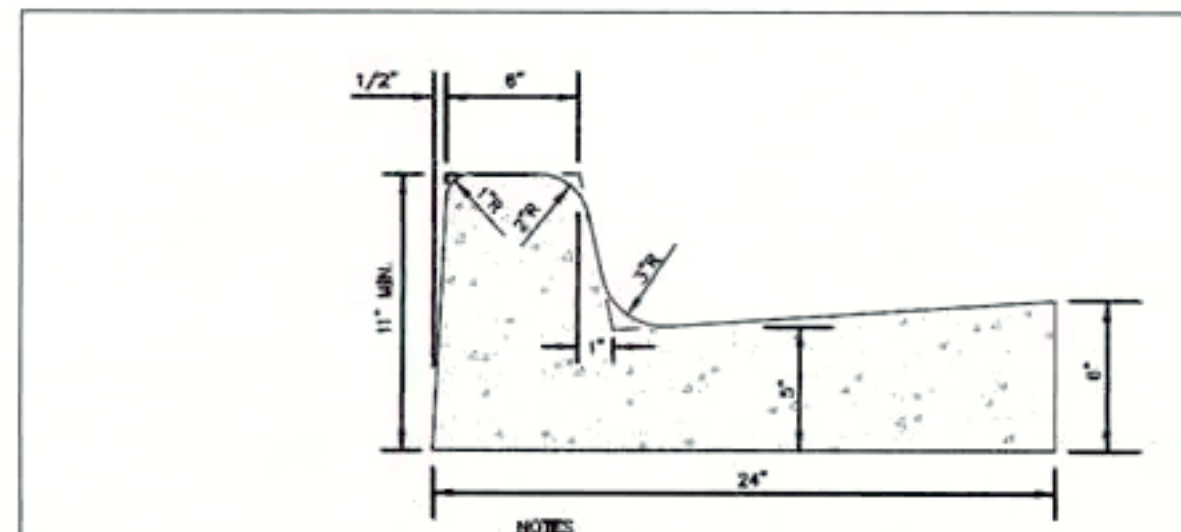
SIDEWALK INTERSECTION DETAIL
NOT TO SCALE



SLOPEDOWN SIDEWALK DETAIL
NOT TO SCALE



HANDICAPPED SYMBOL DETAIL
NOT TO SCALE



- NOTE:
1. 1/2" PERFORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES & CURB RETURNS.
 2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
 3. DISTANCE BETWEEN DUMMY JOINTS = 10.0'
 4. CONCRETE STRENGTH = 3000 PSI SLUMP = 2". FINISH SHALL BE SHOWED & FINISHED WITH A WOODEN FLOAT.
 5. OTHER CURB & GUTTER SECTIONS WILL BE EVALUATED AS APPROPRIATE BY THE COUNTY ENGINEER.

CURB & GUTTER DETAIL
HENRY COUNTY STANDARD NO. 3.7.1



SIDEWALK WITH TURNED DOWN EDGE
NOT TO SCALE



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COVINGTON, GA 30014

CLIENT NAME
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

REVISIONS

NO.	DATE	REVISIONS
1	8/12/2023	REVISED PER CITY COMMENTS
2	10/11/2023	REVISED PER CITY COMMENTS

A3250.0001-CVR-DETAILS

DATE 7/10/2023

CONTRACT # A3250.0001

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LEVEL 2 CERTIFICATION
CERT. #0000045834 EXP. 08/01/25

SHEET TITLE

CONSTRUCTION
DETAILS SHEET 2

SHEET

8.2



Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

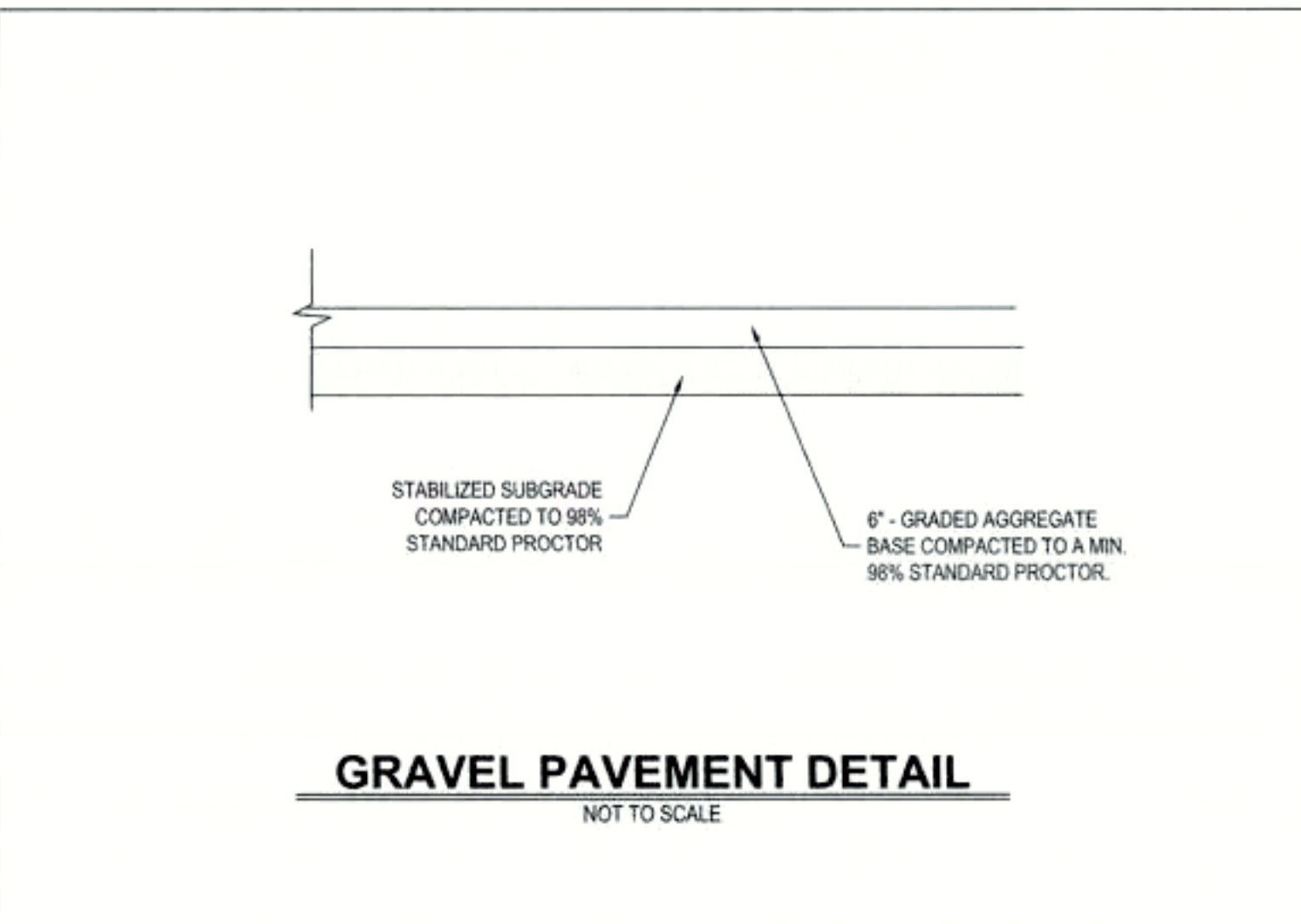
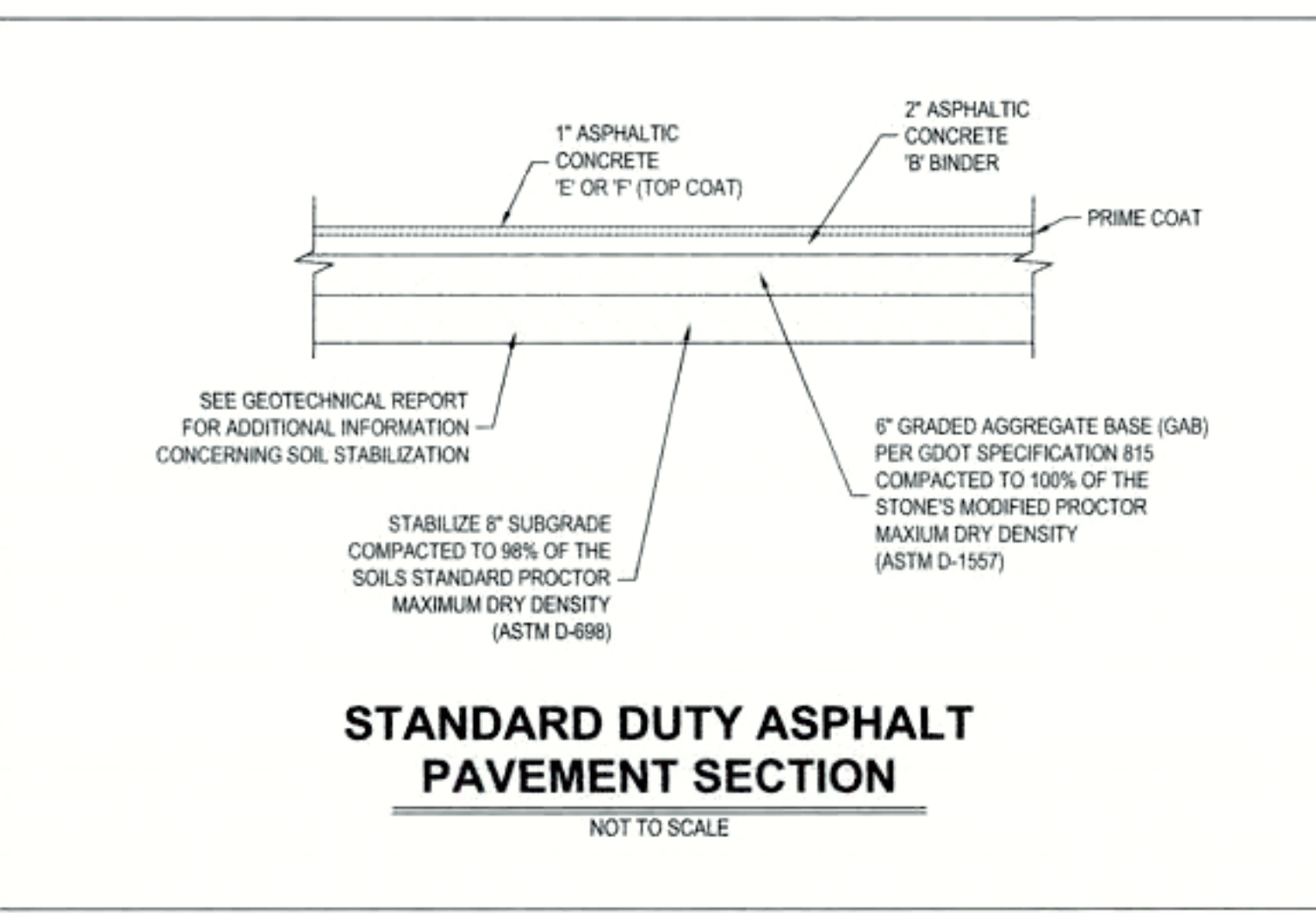


TABLE NO. 1
TABLE SHOWING THE MINIMUM CLASSIFICATION OF CONCRETE PIPE FOR VARIOUS HEIGHTS OF FILL ABOVE TOP OF PIPE

PIPE DIAMETER (inches)	1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90
12	II	III	IV	V	V	IV	IV	IV	V	V	V	V
15	II	III	IV	V	V	IV	IV	IV	V	V	V	V
18	II	III	IV	V	V	IV	IV	IV	V	V	V	V
24	II	III	IV	V	V	IV	IV	IV	V	V	V	V
30	II	III	IV	V	V	IV	IV	IV	V	V	V	V
36	II	III	IV	V	V	IV	IV	IV	V	V	V	V
42	II	III	IV	V	V	IV	IV	IV	V	V	V	V
48	II	III	IV	V	V	IV	IV	IV	V	V	V	V
54	II	III	IV	V	V	IV	IV	IV	V	V	V	V
60	II	III	IV	V	V	IV	IV	IV	V	V	V	V
66	II	III	IV	V	V	IV	IV	IV	V	V	V	V
72	II	III	IV	V	V	IV	IV	IV	V	V	V	V
78	II	III	IV	V	V	IV	IV	IV	V	V	V	V
84	II	III	IV	V	V	IV	IV	IV	V	V	V	V
90	II	III	IV	V	V	IV	IV	IV	V	V	V	V
96	II	III	IV	V	V	IV	IV	IV	V	V	V	V
102	II	III	IV	V	V	IV	IV	IV	V	V	V	V
108	II	III	IV	V	V	IV	IV	IV	V	V	V	V

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF AN EXTRAPOLATION OF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE. CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EXCAVATION AND IMPERFECT BACKFILL MATERIAL TYPE II IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

Grade Line or Top of Embankment

Embankment to be placed in this elevation before trench for impervious backfill is constructed.

SEE DETAIL FOR TRENCH CONSTRUCTION.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL
CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL TYPE II

STCL IV CONC. PIPE 12" CL IV CONC. PIPE

(FOR CONDITIONS BETWEEN HEAVY LINE & A DOUBLE LINE, TABLE NO.1)

DETAIL 'A'

PAVING OR BASE

PROFILE GRADE

PLANE OF SECTION

12" Minimum Cover - SEE TABLE 2 FOR PIPE ARCH (24" for C.S. Pipe Diameter 102" - 120")

Slope of Culvert Variable

DETAIL 'B'

CL IV CONC. PIPE 12" CL IV CONC. PIPE

(FOR CONDITIONS ON RIGHT SIDE OF DOUBLE LINE, TABLE NO.1)

TABLE NO. 2 (PIPE-ARCH)
TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL PIPE ARCHES ALONG THE PIPE-ARCH AND MAXIMUM HEIGHTS OF FILL ABOVE TOP OF THE PIPE-ARCH

Span (ft)	Span (in)	Min. Thickness (in)	Min. Max. Ht. (ft)	Min. Max. Ht. (in)
15	17	13	0.064	0.060
18	21	15	0.064	0.060
21	24	18	0.064	0.060
24	28	20	0.064	0.060
30	35	24	0.064	0.060
36	42	29	0.064	0.075
42	49	33	0.079	0.079
48	57	38	0.079	0.079
54	64	43	0.09	0.09
60	71	47	0.09	0.09
66	78	51	0.09	0.09
72	85	57	0.09	0.09
78	92	63	0.09	0.09
84	99	67	0.09	0.09
90	105	71	0.09	0.09

NOTE: BELL HOLES SHALL BE PROVIDED BY BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE: Where an incompressible foundation exists, excavate an additional 6".

NOTE: Where an unstable foundation material is encountered, excavate an additional depth as shown on Plans or as directed by the Engineer.

NO SCALE

TABLE NO. 3 - (INFORMATION ONLY)

Cor. Metal Thickness	Equivalent Gauge
0.064	16
0.079	14
0.09	12
0.105	10
0.118	8
0.090	16
0.079	14
0.105	12
0.135	10
0.164	8

① DENOTES 2-2 1/2"x1/2" CORRUGATION.
② DENOTES 3"x1" CORRUGATION.

NORMAL BACKFILL
Backfill, as shown by the broken line sections, shall consist of placing compactable soil in 6" (Lime) layers and compacting each layer (according to Georgia Standard Specifications) on both sides of pipe for its full length. Measurement and payment will be made under Roadway Construction Items for formation of embankments.

Normal embankment shall be placed a minimum of 12" wide on each side of the pipe and of least the minimum cover over the pipe and compacted to the required density before equipment is allowed to cross.

After backfill has been compacted, the balance of the fill up to grade line shall be constructed in accordance with embankment specifications.

LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS

MULTIPLE PIPE CULVERT SPACING

SEE DETAIL FOR TRENCH CONSTRUCTION.

S = One inside diameter of pipe or 3 feet, whichever is smaller.
For pipe arch culverts, substitute span for inside diameter.

For Multiple Lines of C.M. Pipe with metal Flared End Sections, S may be increased enough to shield openings of End Section wholop. Location of metal End Section should be determined before placement of pipe.

TRENCH CONSTRUCTION FOR SIDE DRAIN

FLAT BOTTOM PIPE

Minimum Depth of Trench

Symmetrical about

THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSIBLE MATERIAL (Installed Excavation) A MINIMUM OF 6" BELOW THE PIPE.

TRENCH CONSTRUCTION FOR STORM DRAIN

Grade Line or Top of Embankment

Symmetrical about

Backfill to be mechanically compacted to the top of the trench or to a height of six cover above the top of the pipe, whichever is greater.

For construction details see note for Normal Backfill.

FOUNDATION BACKFILL MATERIAL TYPE I WHICH REQUIRED SHALL BE CLASS I OR II-A SOLS APPROVED FOR USE BY THE ENGINEER. THE MATERIAL TO BE USED WILL BE OBTAINED AS UNCLASSIFIED EXCAVATION OR SUBGRADE FROM LOCATIONS APPROVED BY THE ENGINEER.

FOR EXCAVATION FOR PIPE-ARCH CULVERTS SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN DETAIL.

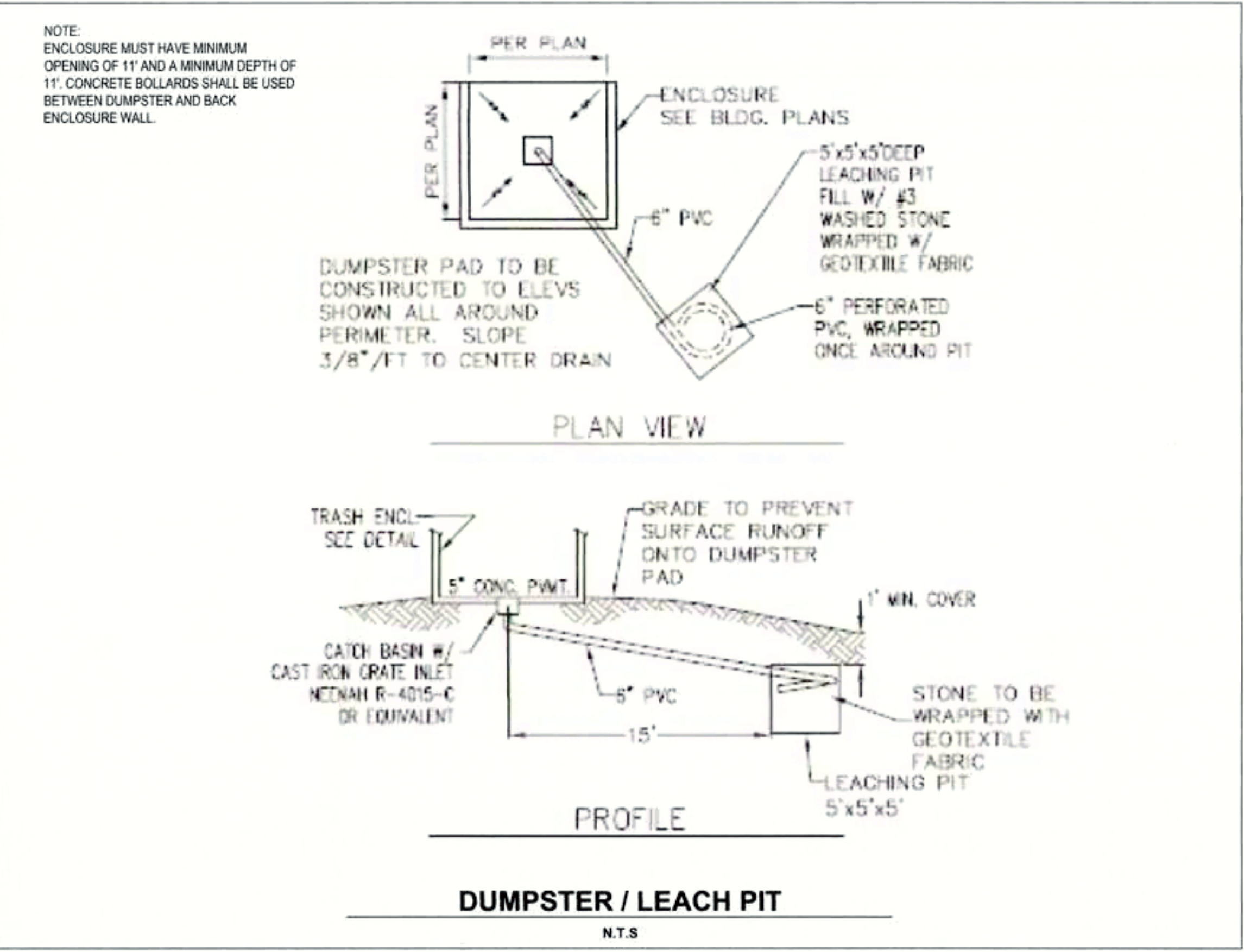
NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: Where an incompressible foundation exists, excavate an additional 6".

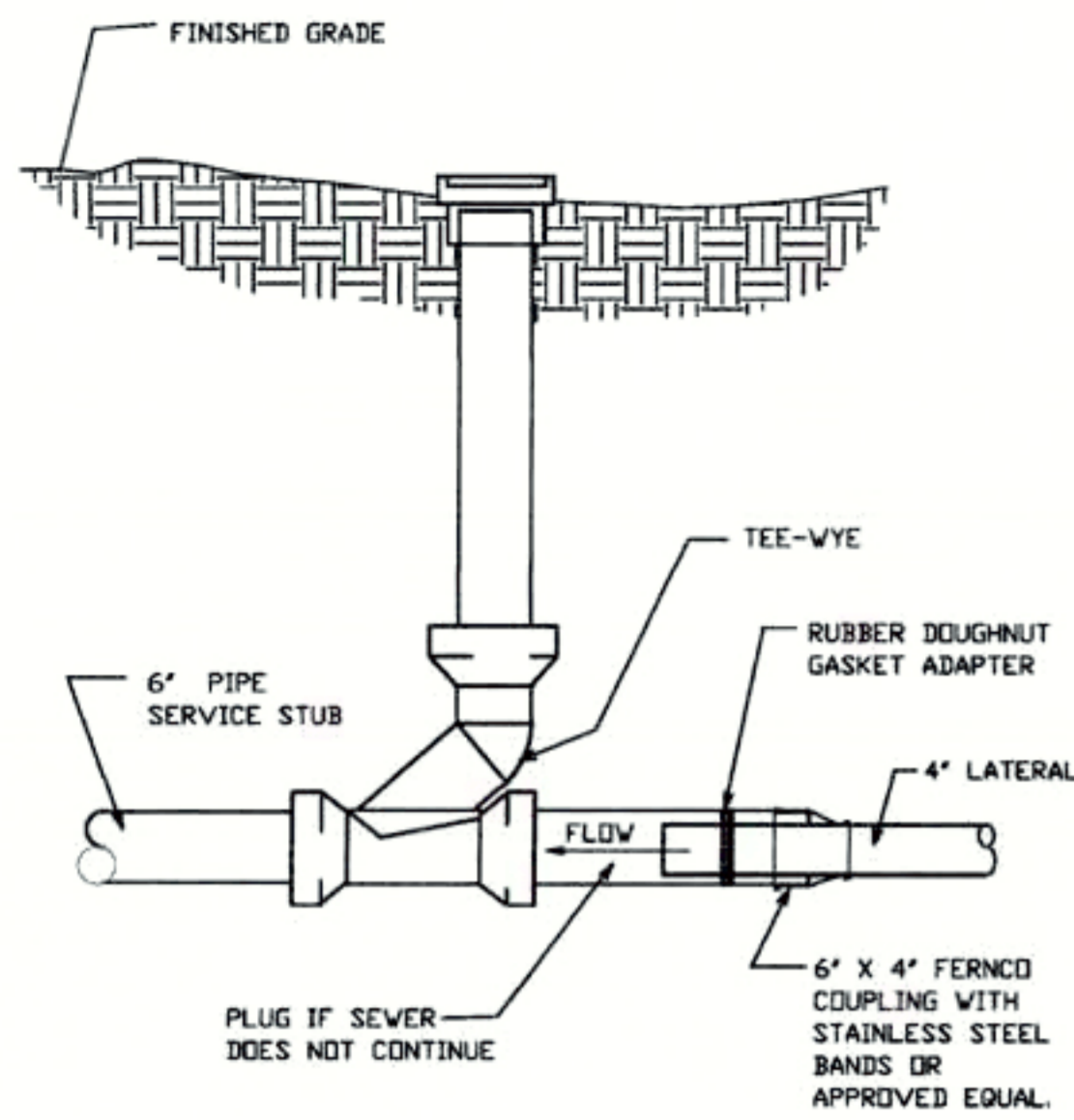
NOTE: Where an unstable foundation material is encountered, excavate an additional depth as shown on Plans or as directed by the Engineer.

NO SCALE

STANDARD CULVERT SPECIFICATIONS
N.T.S.



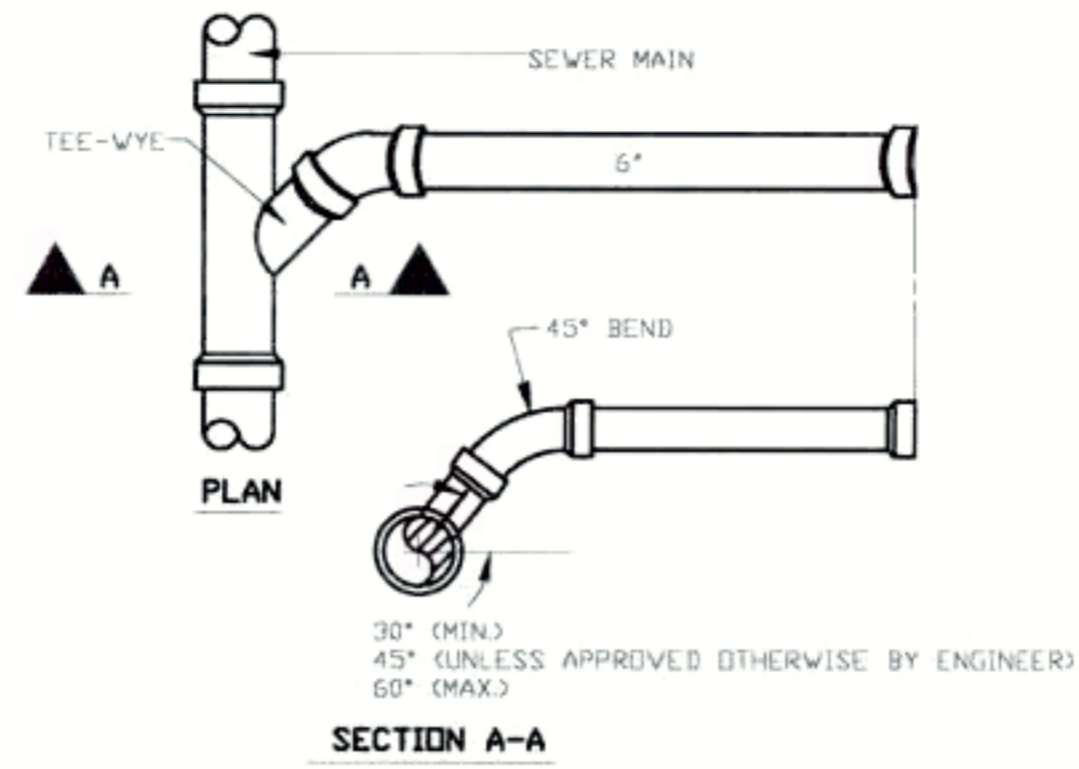
A3250.0001 - Roberts Way TrenchEngineering\CD\A3250.0001-CVR-DETAILS.dwg, CS:32001,DETAILS-2, Williams, Oct 12, 2023 - 3:07:21pm



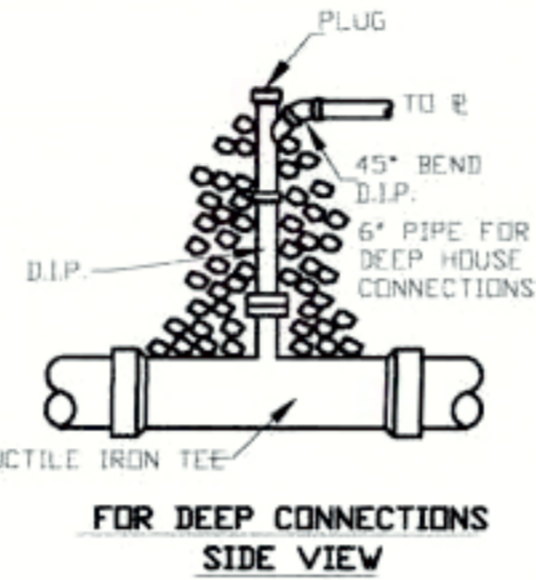
CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

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6" CLEAN OUT



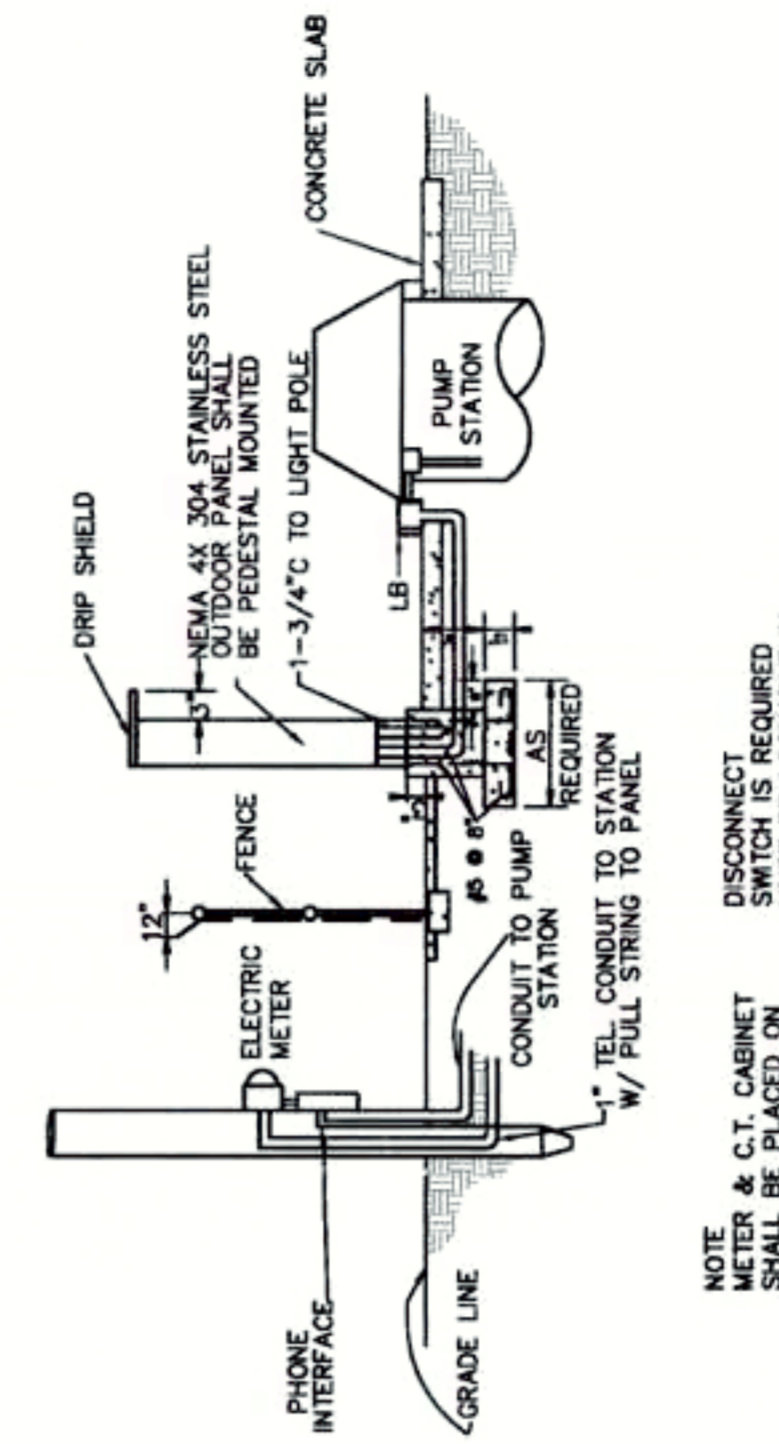
NOTE:
DEEP HOUSE CONNECTIONS MAY BE ALLOWED WHEN SEWER INVERT IS 12" OR MORE BELOW SURFACE.
STACKED SERVICE LINES PERMITTED UNDER ROADS ONLY WITH SPECIAL PERMISSION.



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6" TEE SERVICE CONNECTIONS

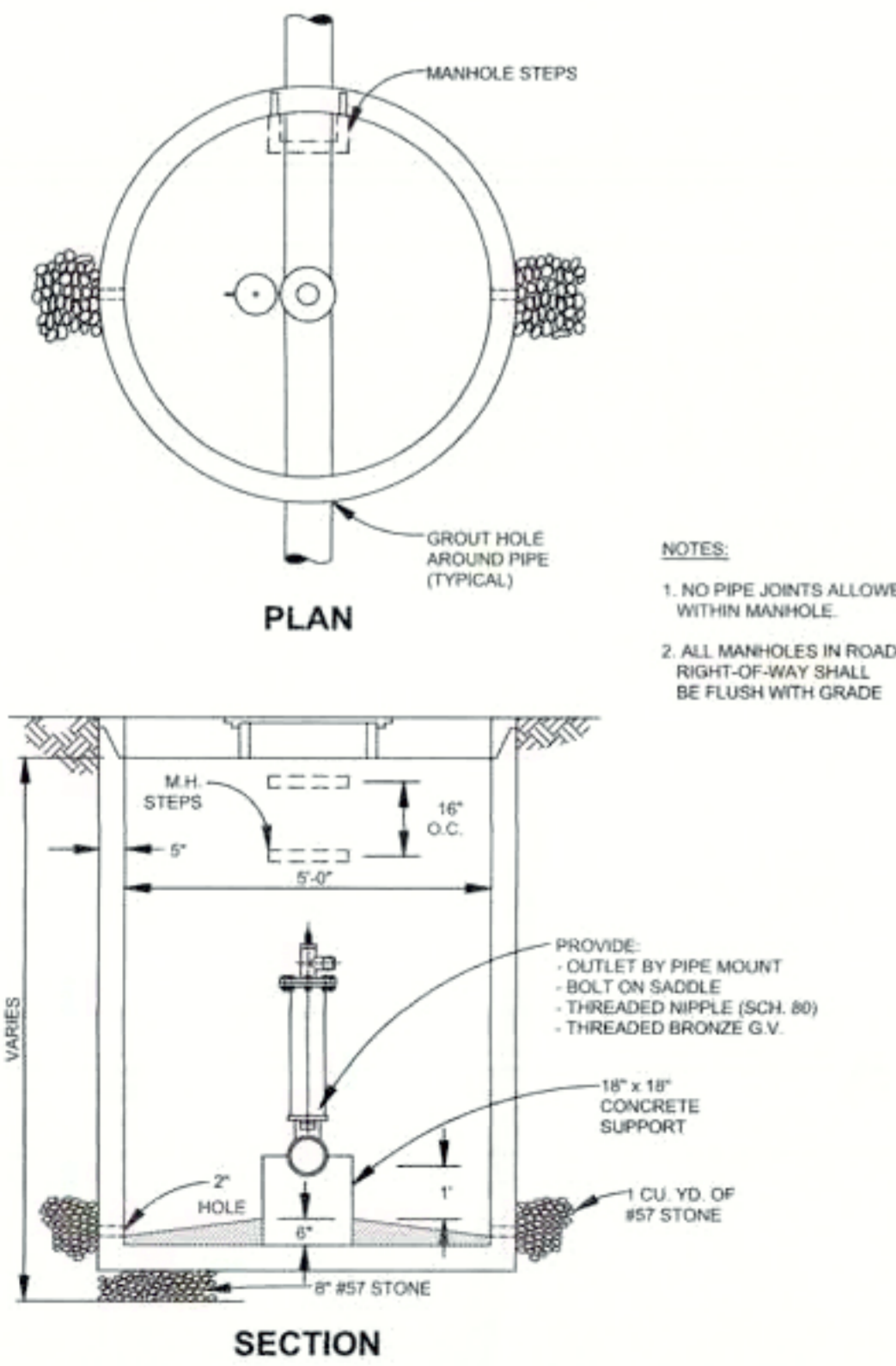


NOTE:
DISCONNECT REQUIRED MUST BE LOCKABLE IN OFF AND ON POSITION.
METER & C.T. CABINET SHALL BE PLACED ON UTILITY SIDE OF FENCE.

CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

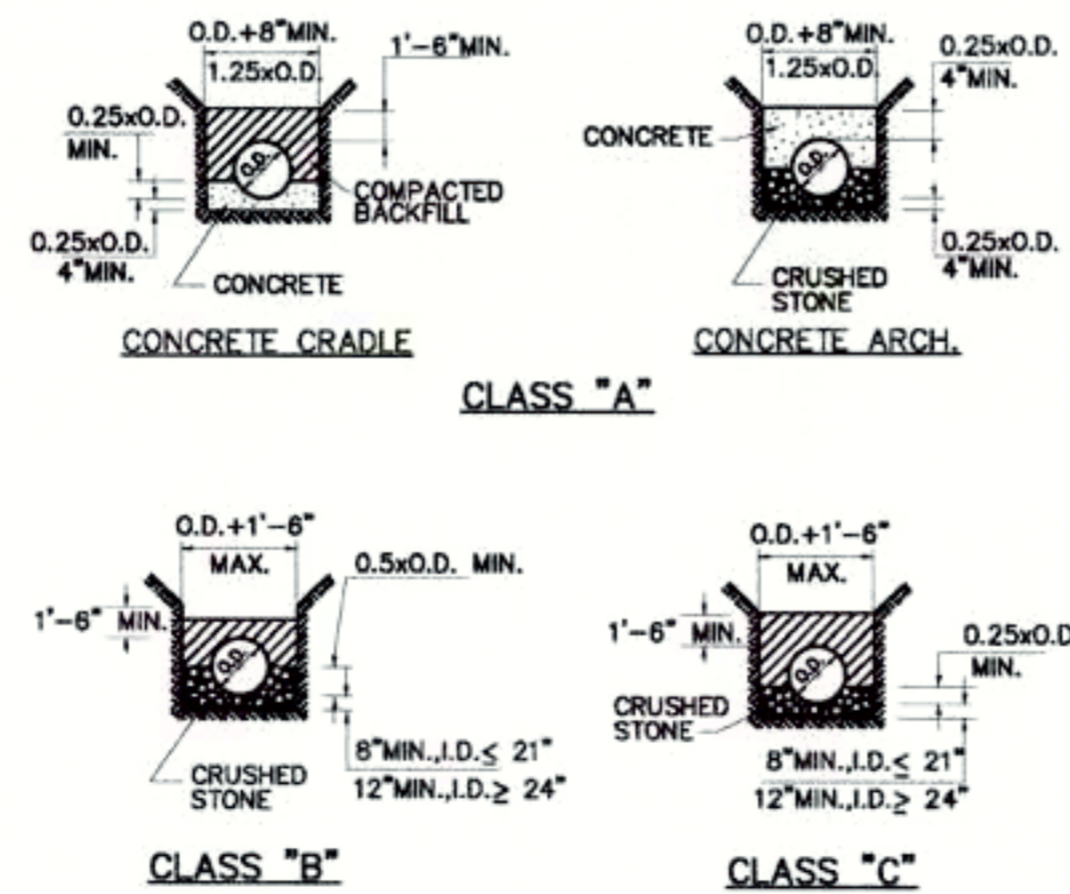
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ABOVE GROUND CONDUIT ELEVATION



NOTES:
1. NO PIPE JOINTS ALLOWED WITHIN MANHOLE.
2. ALL MANHOLES IN ROAD RIGHT-OF-WAY SHALL BE FLUSH WITH GRADE.

SEWER AIR & VACUUM VALVE ASSEMBLY



CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

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770.914.9394

PROJECT NAME	T & M HEATING & AIR 10100 ROBERTS WAY COVINGTON, GA 30014
CLIENT NAME	HIGH NOON INVESTMENTS 2250 DOUBLE SPRINGS CHURCH ROAD MONROE, GA 30656

REVISIONS	9/12/2023 REVISED PER CITY COMMENTS
	10/11/2023 REVISED PER CITY COMMENTS

A3250.0001-CVR-DETAILS

DATE: 7/10/2023

CONTRACT #: A3250.0001

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SHEET TITLE

CITY OF COVINGTON
UTILITY DETAILS
SHEET 1

SHEET

9.1



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PROJECT NAME
T & M HEATING & AIR
10100 ROBERTS WAY
COVINGTON, GA 30014

CLIENT NAME
HIGH NOON INVESTMENTS
2250 DOUBLE SPRINGS CHURCH ROAD
MONROE, GA 30656

REVISIONS
9/22/2023 REVISED PER CITY COMMENTS
10/11/2023 REVISED PER CITY COMMENTS

DATE	7/10/2023
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DATE 7/10/2023
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LEVEL 2 CERTIFICATION
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SHEET TITLE
CITY OF COVINGTON
UTILITY DETAILS
SHEET 3

SHEET
9.3



CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

TRAFFIC FRAME & COVER

City of Covington
Engineering Department
2118 Stallings Street
Covington, Georgia 30005

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CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

PLUG VALVE FOR BYPASS ASSEMBLY

City of Covington
Engineering Department
2118 Stallings Street
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PIPE CLASS	TRENCH WIDTH	TRENCH DEPTH CLASS '1' BEDDING	TRENCH DEPTH CLASS '2' BEDDING
8" PVC AND TRUSS	ALL	16'	-
10" PVC AND TRUSS	UP TO 30" 30" TO 36" ABOVE 36"	16' 14' 10'	- - -
12" PVC AND TRUSS	UP TO 30" 30" TO 36" ABOVE 36"	14' 12' 11'	- - -
15" PVC AND TRUSS	UP TO 30" 30" TO 36" ABOVE 36"	16' 14' 10'	- - -
15" D.L.P. CLASS			
50	ALL	35'	20'
51	ALL	40'	25'
52	ALL	50'	35'
8" D.L.P. CLASS			
50	ALL	60'	40'
51	ALL	70'	50'
52	ALL	80'	60'
10" D.L.P. CLASS			
50	ALL	45'	30'
51	ALL	55'	40'
52	ALL	70'	50'
12" D.L.P. CLASS			
50	ALL	40'	25'
51	ALL	50'	35'
52	ALL	60'	45'
15" D.L.P. CLASS			
50	ALL	35'	20'
51	ALL	40'	25'
52	ALL	50'	35'

CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

MAXIMUM TRENCH DEPTHS

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Engineering Department
2118 Stallings Street
Covington, Georgia 30005

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CONCRETE BLOCKING FOR VERTICAL BENDS

CONDITIONS:
200 PSI WATER PRESSURE
2500 PSI SOIL CAPACITY

NOTE:
FOR VERTICAL UP BEND USE THE DIMENSIONS FOR HORIZONTAL BENDS

45 DEGREE BEND			22.5 DEGREE BEND		
FM SIZE (in.)	X or Y or Z (ft.)	ROD (in.)	FM SIZE (in.)	X or Y or Z (ft.)	ROD (in.)
24	11.06	1.50	24	8.65	1.50
16	8.34	1.00	16	6.73	1.00
12	6.89	1.00	12	5.53	1.00
10	6.01	0.75	10	4.81	0.75
8	5.29	0.75	8	4.16	0.75
6	4.33	0.75	6	3.53	0.75

CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

VERTICAL CONCRETE BLOCKING

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CITY OF COVINGTON
SANITARY SEWER SYSTEM DETAIL

STANDARD INVERT

City of Covington
Engineering Department
2118 Stallings Street
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NOTE:
1. PRECAST INVERTS ARE ACCEPTABLE.
2. A 0.2 FOOT DROP ACROSS INVERT
3. FIELD INSTALLED INVERTS MUST BE ROWLOCK
4. INVERTS FOR MANHOLES RECEIVING FORCEMAINS SHALL BE SIMILARLY CONSTRUCTED

PIPE SIZE	DEFLECTION	MIN. MH DIA
12" & 15"	0" - 90"	4' - 0"
18"	0" - 110"	4' - 0"
24"	0" - 150"	5' - 0"
30" & 36"	0" - 210"	6' - 0"
42" & 48"	0" - 270"	8' - 0"

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