

CIVIL CONSTRUCTION PLANS
FOR
CITY OF SANGER
PORTER PARK POND REHABILITATION
90% DESIGN SUBMITTAL

MAYOR

THOMAS MUIR

CITY COUNCIL

MARISSA BARRETT
GARY BILYEU
DENNIS DILLON
ALLEN CHICK
VICTOR GANN

CITY MANAGER

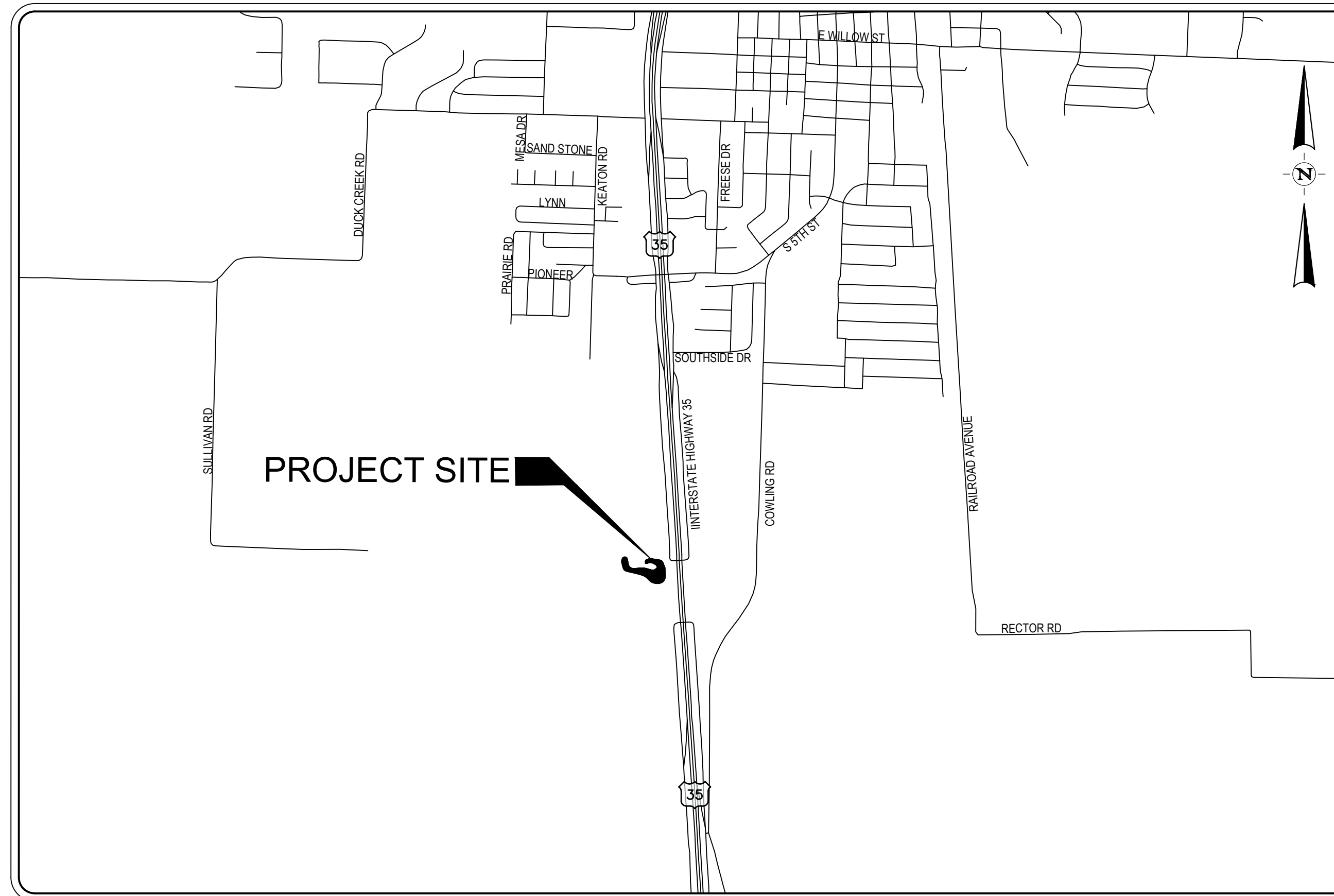
JOHN NOBLITT

DIRECTOR OF PUBLIC WORKS

JIM BOLZ

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RYAN NOLTING



LOCATION MAP

NOT TO SCALE

OWNER/CLIENT:



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SAMSON R. LOTIGO	149676
NAME	PE LICENSE NO.
1/23/2025	
DATE	
TBPELS ENGINEERING FIRM #F-312	TX
FIRM / BUSINESS NO.	STATE

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SAMSON R. LOTIGO (149676),
NAME (NUMBER),
ON 1/23/2025.

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THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE "TEXAS 811" SYSTEM AT 1-800-344-8377 (DIG TESS) 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SANGER, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG), AND TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARDS AND SPECIFICATION WHERE APPLICABLE.
2. IT IS NOT THE INTENT OF THESE CONSTRUCTION NOTES TO COVER ALL DETAILS AND/OR SPECIFICATION REQUIREMENTS OF THE CITY OF SANGER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS OF THE CITY OF SANGER, WHETHER OR NOT THE REQUIREMENTS ARE SPECIFICALLY STATED IN THE PLANS OR SPECIFICATIONS.
3. THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN (MAIN LINES, NO LATERAL OR SERVICES SHOWN) ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND OR FIELD OBSERVATIONS AND ARE APPROXIMATE. NO WARRANTY IS IMPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL FRANCHISE AND CITY UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE INFORMED OF ANY VARIANCES IN HORIZONTAL LOCATION, VERTICAL LOCATION, SIZE, OR MATERIAL AT PROPOSED UTILITY CONNECTIONS WITH EXISTING BEFORE CONSTRUCTION ACTIVITIES ARE COMMENCED.
4. ANY CONTRACTOR / SUBCONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE BUT NOT BE LIMITED TO BERMS, DITCHES, FENCES, AND VEGETATION. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS OUTSIDE OF THOSE SHOWN IN THESE PLANS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT HIS EXPENSE AND SHALL BE APPROVED BY THE CITY OF SANGER.
5. ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE CITY OF SANGER. ALL SUBMITTALS MUST BE ORIGINALS WITH SIGNATURES WHERE APPLICABLE; FACSIMILES WILL NOT BE ACCEPTED.
6. TESTING SERVICES FOR PUBLIC PROJECTS SHALL BE PROVIDED BY A REPUTABLE TESTING FIRM. COSTS ASSOCIATED WITH THESE TESTS SHALL BE PAID BY THE CONTRACTOR. RE-TEST OF FAILED AREAS THAT DO NOT MEET THE REQUIREMENTS STATED WITHIN SHALL BE PAID FOR BY THE CONTRACTOR.
7. THE CONTRACTOR ON PRIVATE CONTRACTS OR HIS/HER DESIGNEE SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL HANDBOOK. ALL REFERENCE FOR USING TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARDS AND CONSTRUCTION DETAILS SHALL BE THE LATEST REVISIONS AND/OR AMENDMENTS THEREOF. THE MINIMUM SIGN SIZE SHALL BE THE STANDARD SIZE IN THE MANUAL.
8. THE CONTRACTOR SHALL MAKE EVERY EFFORT NOT TO IMPEDY TRAFFIC ON EXISTING STREETS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE CITY NO LATER THAN FIVE (5) DAYS IN ADVANCE. IF THE CLOSURE ELIMINATES THE SECOND POINT OF ACCESS TO EXISTING BUILDINGS WITH A CERTIFICATE OF OCCUPANCY, THEN THE ACCESS MAY NOT BE CLOSED FOR MORE THAN FORTY-EIGHT (48) HOURS AND WILL REQUIRE FIRE MARSHAL APPROVAL IN EITHER CASE. UNLESS OTHERWISE SPECIFIED BY THE CITY, ALL OTHER STREETS OR ALLEYS MAY NOT BE CLOSED FOR MORE THAN SEVENTY-TWO (72) HOURS.
9. THE CONTRACTOR SHALL INSTALL 6' TEMPORARY CHAIN LINK FENCE INSTALLED AROUND THE PROJECT TO PROTECT CONSTRUCTION SITE AND STAGING WHERE NECESSARY.
10. ALL CONCRETE STRUCTURES, WHETHER PRECAST OR CAST-IN-PLACE, SHALL BE DESIGNED WITH APPROPRIATE SULFATE RESISTANT CEMENT OR EQUIVALENT BASED ON LOCAL SOIL CONDITIONS PER GEOTECHNICAL REPORT. PRECAST MANHOLES OR OTHER SPECIAL STRUCTURES IN ANY RIGHT-OF-WAY OR FIRE LANE EASEMENTS WILL REQUIRE A CERTIFICATION FROM THE MANUFACTURER THAT THE PRODUCT MEETS THE DESIGN CRITERIA AND TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH. CAST-IN-PLACE MANHOLES OR OTHER SPECIAL STRUCTURES IN ANY RIGHT-OF-WAY AND FIRE LANE OR UTILITY EASEMENTS WILL REQUIRE CYLINDERS TO BE MADE FOR STRENGTH TESTS BY AN APPROVED LABORATORY. LABORATORY TEST REPORTS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100-150 CU YD OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQ FT OF SURFACE AREA FOR SLABS OR WALLS. FOUR (4) CYLINDERS SHALL BE MADE: ONE (1) SHALL BE BROKEN AT SEVEN (7) DAYS, TWO (2) SHALL BE BROKEN AT TWENTY-EIGHT (28) DAYS, AND ONE (1) SHALL BE HELD IN CASE OF DAMAGE OF ANY OF THE OTHER THREE (3). THE AVERAGE STRENGTH OF TWO (2) CYLINDERS FROM THE SAME SAMPLE, TESTED AT TWENTY-EIGHT (28) DAYS, IS REQUIRED FOR EACH STRENGTH TEST; ANY STRENGTH TEST BEYOND TWENTY-EIGHT (28) DAYS IS UNACCEPTABLE. IF THE TWENTY-EIGHT (28) DAY DESIGN STRENGTH IS NOT REACHED UPON STRENGTH TESTING THE CYLINDERS, THE DEFICIENT AREA SHALL BE CORED IMMEDIATELY TO BE PROVED OUT. FOR ANY AREAS DEFICIENT IN STRENGTH BY NOT MORE THAN 500 PSI, THE CONTRACTOR SHALL PAY TO THE CITY ONE (1) TIME THE UNIT BID PRICE PER SQUARE YARD FOR THE AREA DETERMINED TO BE DEFICIENT IN STRENGTH. FOR ANY AREAS DEFICIENT IN STRENGTH BY MORE THAN 500 PSI BUT NOT MORE THAN 1000 PSI, THE CONTRACTOR SHALL PAY TO THE CITY TWO (2) TIMES THE UNIT BID PRICE PER SQUARE YARD FOR THE AREA DETERMINED TO BE DEFICIENT IN STRENGTH. FOR ANY AREAS DEFICIENT IN STRENGTH BY MORE THAN 1000 PSI, THE STRUCTURE SHALL BE REMOVED AND RECONSTRUCTED AT THE FULL EXPENSE OF THE CONTRACTOR. PRIOR TO CITY ACCEPTANCE OF ANY PENALTY PAYMENTS FOR ANY TRAFFIC BEARING STRUCTURE THAT DOES NOT MEET TWENTY-EIGHT (28) DAY DESIGN STRENGTH; THE DESIGN ENGINEER SHALL PROVIDE A SEALED STRUCTURAL EVALUATION THAT ASSESSES THE PERFORMANCE ADEQUACY OF THE DEFICIENT STRUCTURE AS CONSTRUCTED UNDER THE DESIGN SERVICE LOADS. ALL CORING AND ADDITIONAL LABORATORY TESTING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
11. BLASTING IS NOT PERMITTED ON THIS PROJECT.
12. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
13. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE WORK.
14. THE TRENCH EXCAVATION AND SHORING SAFETY SYSTEM, AS OUTLINED IN THE TECHNICAL SPECIFICATIONS, WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE AS REQUIRED BY OSHA.
15. A PRE-CONSTRUCTION CONFERENCE IS TO BE HELD PRIOR TO BEGINNING CONSTRUCTION. THIS CONFERENCE SHALL TAKE PLACE AT A LOCATION SELECTED BY OWNER & ENGINEER. CONTRACTOR TO ARRANGE A MEETING DATE WITH THE OWNER AT LEAST SEVEN DAYS PRIOR TO THE MEETING TIME.
16. CONTRACTOR SHALL NOTIFY THE OWNER, OWNER'S REPRESENTATIVE, AND TCEQ (IF APPLICABLE) BY TELEPHONE A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION STARTUP, FOLLOWED BY A LETTER OF CONFIRMATION.

- 17. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR ARE TO BE OBTAINED AT THE CONTRACTORS EXPENSE.
18. CONTRACTOR SHALL GIVE A MINIMUM OF 48 HOURS NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
19. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO AT LEAST THE PRE-EXISTING CONDITION AT NO ADDITIONAL COST TO OWNER.
20. WHEN UNLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING OR A BREAK IN A LINE OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. THE CONTRACTOR SHALL COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES TO BE COORDINATED WITH THE OWNER.
22. THE CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH APPLICABLE UTILITY COMPANY OR COMPANIES. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
23. THE CONTRACTOR SHALL LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, AND CONTROL POINTS. THE CONTRACTOR SHALL RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY A REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO OWNER.
24. EXISTING PAVING, BUILDING, AND OTHER ITEMS SHOWN ON PLANS NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR IS FOR INFORMATION ONLY.
25. DEMOLITION PERMITS (IF NEEDED) ARE TO BE OBTAINED BY THE CONTRACTOR.
26. COORDINATES SHOWN FOR STRUCTURE LOCATIONS ARE REFERENCED TO OUTSIDE FACE OF EXTERIOR WALL AT GRADE OR TO CENTERLINE OF STRUCTURE, UNLESS OTHERWISE ON PLANS.
27. EXISTING SURFACE AND SUBSURFACE STRUCTURES (GAS MAINS, WATER MAINS, STORM SEWERS, TELEPHONE CABLES, ETC.) ARE SHOWN ON THE PLANS IF THEIR LOCATION HAS BEEN DETERMINED, BUT IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AVOID DAMAGING THESE EXISTING STRUCTURES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS OR TO SHOW THEM IN THEIR EXACT LOCATION. IF ANY STRUCTURE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE HIS RESPONSIBILITY TO REPAIR THE DAMAGE AT HIS OWN EXPENSE AND RESTORE THE STRUCTURE TO ITS ORIGINAL CONDITION.
28. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES, IF REQUIRED. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-RECORDED" PLANS TO THE ENGINEER OF RECORD SHOWING THE LOCATION OF ALL DRAINAGE STRUCTURES. THIS INFORMATION SHALL BE PLACED ON THE ENGINEERING PLANS AND MARKED "RECORD DRAWING" PLANS ALONG WITH THE DATE AND THE NAME OF THE CONTRACTOR BY THE ENGINEER OF RECORD. COPIES OF THESE "RECORD DRAWING" PLANS SHALL BE FURNISHED TO THE CITY ON MYLARS, BLACKLINE PRINTS, AND ELECTRONICALLY.
30. THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND IN THE AMOUNT OF 100% (ONE HUNDRED PERCENT) OF THE TOTAL CONTRACT PRICE TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
31. CONTRACTOR IS RESPONSIBLE FOR PICKING UP ALL DEBRIS / TRASH FROM CONSTRUCTION SITE DAILY.
32. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE INFORMATION CONTAINED IN THE PROJECTS GEOTECHNICAL REPORT TITLED "CMJ REPORT 117-24-360 - POND INVESTIGATION - SANGER SPORTS PARK - SANGER, TEXAS" DATED JULY 2024 AND PREPARED BY CMJ ENGINEERING, INC. NO EXTRA PAY SHALL BE MADE FOR DELAYS OR COST INCURED AS A RESULT OF, BUT NOT LIMITED TO, DEWATERING ACTIVITIES OR UNANTICIPATED SOIL CONDITIONS DURING EARTHWORK ACTIVITIES.
33. ALL VERTICAL REBAR EXPOSED FOR LONGER THAN 1 DAY SHALL HAVE AN ORANGE PROTECTIVE CAP FASTENED TO THE TOP. THIS PROTECTION MEASURE SHALL APPLY FOR ALL EXPOSED REBAR ON THE PROJECT REGARDLESS OF WHETHER IT IS RELATED TO CONSTRUCTION, STAKING, EROSION CONTROL, OR ANY OTHER ASPECT OF THE PROJECT.

CONSTRUCTION SEQUENCING NOTES

- 1. THE COMMENCEMENT OF WORK SHALL FOLLOW THE FOLLOWING ORDER:
a. ACQUIRE ALL PERMITS
b. IMPLEMENT SWPPP
c. CONDUCT AQUATIC RELOCATION ACTIVITIES
d. SECURE ENTIRE SITE WITH SECURITY FENCING
e. LOCATE ALL EXISTING UTILITIES ON THE ENTIRE SITE
2. EQUIPMENT AND MATERIALS (WASTE AND/OR UNINSTALLED PRODUCT) SHALL BE STORED WITHIN THE WORK SITE AND SHALL NOT BE VISIBLE BY THE GENERAL PUBLIC FROM OUTSIDE OF THE WORKSITE. IF MATERIAL AND EQUIPMENT CANNOT BE STORED OUT OF SIGHT THEN THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO DETERMINE ACCEPTABLE STORAGE.

GENERAL ENVIRONMENTAL NOTES

- 1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIAL, INCLUDING METHODS OF HANDLING AND DISPOSAL.
2. CONTRACTOR SHALL LOCATE MATERIAL STORAGE AREAS AWAY FROM STORMWATER CONVEYANCE SYSTEMS. PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
3. FUEL STORAGE IS NOT ALLOWED ON THIS PROJECT.
4. THE CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY AND IN WRITING, OF ANY FUEL OR TOXIC MATERIALS SPILLS WITHIN THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TO BE TAKEN TO REMEDY THE PROBLEM.
5. THE CONTRACTOR SHALL DISPOSE OF FUELS, HAZARDOUS MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
6. NO OPEN BURNING IS ALLOWED WITHIN THE CITY LIMITS.

7. DEWATERING ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.

STORMWATER NOTES

- 1. THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ASSURE THAT DRAINAGE OF STORMWATER RUNOFF IS NOT BLOCKED.
2. DURING CONSTRUCTION, THE STORM WATER RUNOFF FROM ALL DISTURBED AREAS SHALL BE FILTERED BY SILT FENCES AND/OR ROCK BERMS. THESE TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE REVEGETATED, AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED PERIODICALLY FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES AND FOLLOWING EVERY RAINFALL. DAMAGED OR OBSTRUCTED CONTROLS TO BE REPAIRED/REPLACED AS NECESSARY TO MAINTAIN THEIR PROPER OPERATION.
3. CONTRACTOR IS REQUIRED TO OBTAIN A TPDES TXR150000 PERMIT FROM THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) FOR SMALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS REQUIRED TO PROVIDE THE NECESSARY SWPPP IN ACCORDANCE WITH THE PERMIT. TOTAL DISTURBED AREA = 3.24 ACRES.
4. THE CONTRACTOR SHALL CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES.
5. EXCESS EXCAVATED MATERIAL SHALL BE STOCKPILED IN DESIGNATED AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER. REINFORCED FILTER FABRIC FENCE TO BE INSTALLED AROUND STOCKPILE ON DOWNSTREAM SIDE AND BOTH SIDES ADJACENT TO THE DOWNSTREAM SIDE. STOCKPILES ARE NOT TO TRAP OR POND WATER. TOPSOIL TO BE STOCKPILED SEPARATELY. ALL EXCESS EXCAVATED MATERIAL IS TO BE REMOVED FROM THE SITE, CONTRACTOR TO NOTIFY TCEQ AND THE OWNER'S REPRESENTATIVE OF LOCATION OF DISPOSAL BEFORE MATERIAL IS REMOVED.
6. THE FINISHED GRADE ELEVATIONS SHOWN ARE INTENDED TO PROVIDE ADEQUATE DRAINAGE. MINOR FIELD CHANGES MAY BE NECESSARY TO PROVIDE ADEQUATE DRAINAGE. GRADE UNIFORMLY BETWEEN ELEVATIONS SHOWN TO PROVIDE DRAINAGE.
7. ADJUST MANHOLE COVERS, VALVE BOXES, ELECTRICAL MANHOLES, ETC. TO MATCH PROPOSED FINISHED GRADE (NO SEPARATE PAY).
8. THE DESIGN OF DEWATERING SYSTEMS REQUIRED FOR PROPER CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT THE CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YIELDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. THE SUBGRADE SHOULD BE PROOF ROLLED TO DETECT SOFT SPOTS, WHICH IF EXIST, SHOULD BE REWORKED TO PROVIDE A FIRM AND OTHERWISE SUITABLE SUBGRADE. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT.
10. FOR SUBGRADE PREPARATION, STRIP THE SITE OF ALL VEGETATION TO A MINIMUM DEPTH OF 6-INCHES BELOW EXISTING GRADE AND REMOVE ANY REMAINING ORGANIC OR DELETERIOUS MATERIAL.
11. FILL MATERIAL SHOULD BE UNIFORM WITH RESPECT TO MATERIAL TYPE AND MOISTURE CONTENT. CLODS AND CHUNKS OF MATERIAL SHOULD BE BROKEN DOWN AND THE FILL MATERIAL MIXED BY DISKING, BLADING, OR PLOWING, AS NECESSARY SO THAT A MATERIAL OF UNIFORM MOISTURE AND DENSITY IS OBTAINED FOR EACH LIFT. WATER REQUIRED FOR SPRINKLING TO BRING THE FILL MATERIAL TO THE PROPER MOISTURE CONTENT SHOULD BE APPLIED EVENLY THROUGH EACH LAYER.
12. IF FILL IS TO BE PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL, THEN THE FILL MATERIALS SHOULD BE BENCHED IN THE EXISTING SLOPES IN SUCH A MANNER AS TO PROVIDE A GOOD CONTACT BETWEEN THE TWO MATERIALS AND ALLOW RELATIVELY HORIZONTAL LIFT PLACEMENT.
13. EACH LIFT SHOULD BE COMPACTED, TESTED, AND APPROVED BEFORE ANOTHER LIFT IS ADDED.

EROSION/SEDIMENTATION AND TREE PROTECTION NOTES

- 1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE PROPOSED EROSION CONTROL PLANS. DEVIATIONS FROM THE PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER.
3. EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIFLINES.
4. TO AVOID SOIL COMPACTION, NO VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IS ALLOWED IN THE TREE DRIFLINE AREAS.
5. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
6. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

DETOURS, BARRICADES, WARNING SIGNS, ETC.

- 1. TRAFFIC MUST BE HANDLED THROUGHOUT THE PROJECT DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR THE SAFE AND COMFORTABLE PASSAGE OF TRAFFIC WITH MINIMAL INCONVENIENCE TO THE PUBLIC AT ALL TIMES. TRAFFIC LANES SHALL BE ENTIRELY OPEN TO TRAFFIC EACH NIGHT AND NO EQUIPMENT SHALL BE LEFT IN A POSITION OVERNIGHT THAT WILL ENDANGER TRAFFIC.
2. A FLAGGER SHALL BE STATIONED WHERE ANY EQUIPMENT IS WORKING ON THE ROAD OR WHERE ANY OTHER HAZARDS DUE TO CONSTRUCTION OPERATIONS EXIST OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT ALL PHASES OF CONSTRUCTION. ADEQUACY OF ACCESS WILL BE AT THE DISCRETION OF THE ENGINEER. SAFE ENTRANCE AND EXIT TO ALL DRIVEWAYS SHALL BE PROVIDED WITH A MINIMUM OF INCONVENIENCE.
4. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIAL OR EQUIPMENT AT ANY LOCATION THAT WILL CONSTITUTE A HAZARD AND WILL ENDANGER TRAFFIC.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF IMPENDING/UPCOMING LANE CLOSURES A MINIMUM OF FIVE WORKING DAYS IN ADVANCE OF LANE CLOSURES.
6. FOR THIS PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER, NO LANE CLOSURES SHALL BE ALLOWED OTHER THAN THOSE IN THE TRAFFIC CONTROL PLAN.
7. THE CONTRACTOR MAY PROPOSE/RECOMMEND MODIFICATIONS TO THE SEQUENCE OF WORK FOR CONSIDERATION BY THE ENGINEER. ANY MAJOR RECOMMENDED MODIFICATION BY THE CONTRACTOR SHALL INCLUDE ANY CHANGES TO THE VARIOUS PAY ITEMS, IMPACT TO TRAFFIC, EFFECT OF OVERALL PROJECT IN TIME AND COST, ETC. THE CONTRACTOR SHALL NOT PROCEED WITH

ANY CONSTRUCTION OPERATIONS BASED ON A REVISED PHASE/SEQUENCE UNTIL HE/SHE OBTAINS WRITTEN APPROVAL FROM THE ENGINEER. IF AT ANY TIME DURING CONSTRUCTION THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE SAFE AND COMFORTABLE MOVEMENT, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATION TO CORRECT THE UNSATISFACTORY CONDITION.

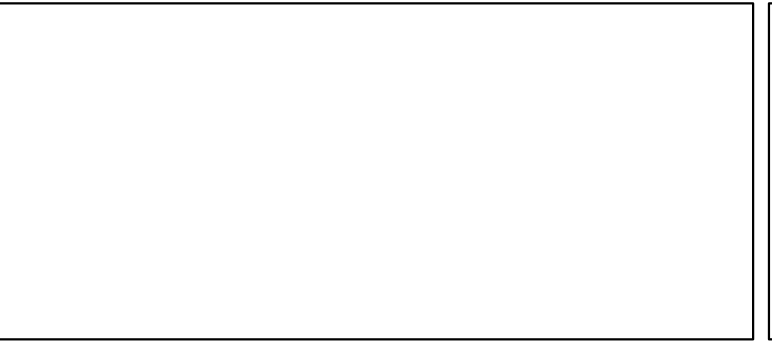
- 8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF BARRICADES, WARNING AND DIRECTIONAL SIGNS TO DELINEATE TRAFFIC FOR ANY DETOURS.
9. ALL CONSTRUCTION TRAFFIC SHALL BE REGULATED SO AS TO CAUSE A MINIMUM OF INCONVENIENCE TO THE TRAVELING PUBLIC. AT POINTS WHERE IT IS NECESSARY FOR TRUCKS TO STOP AND UNLOAD, WARNING SIGNS AND FLAGGERS SHALL BE PROVIDED AS NECESSARY TO ADEQUATELY PROTECT TRAVEL.
10. ALL BARRICADES, SIGNS, WARNING LIGHTS, ETC. SHALL BE ACCORDING TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
11. THE CONTRACTOR MAY, WITH THE APPROVAL OF AND AS DIRECTED BY THE ENGINEER, BE REQUIRED TO FURNISH ADDITIONAL SIGNS AND BARRICADES TO THOSE INDICATED ON THE PLANS TO MAINTAIN THE SAFE PASSAGE OF TRAFFIC THROUGHOUT THE CONSTRUCTION SITE PARTICULARLY IN THOSE AREAS OF IMMEDIATE WORK.
12. UPON COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE IS MADE, THE CONTRACTOR SHALL SHAPE AND FINISH SUCH PORTIONS OF THE RIGHT-OF-WAY AS MAY HAVE BEEN DISTURBED IN MAKING THE ABOVE PROVISIONS FOR TRAFFIC AND WILL BE REQUIRED TO LEAVE THE ENTIRE RIGHT-OF-WAY IN A SMOOTH, NEAT AND SIGHTLY CONDITION.
13. CONTRACTOR SHALL HAVE A COMPANY REPRESENTATIVE CERTIFIED IN FLAGGER TRAINING APPROVED BY TXDOT
14. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE TRAFFIC CONTROL AND WILL BE RESPONSIBLE FOR FURNISHING ALL TRAFFIC CONTROL DEVICES AND FLAGGERS. THE CONSTRUCTION METHODS SHALL BE CONDUCTED TO PROVIDE THE LEAST POSSIBLE INTERFERENCE TO TRAFFIC SO AS TO PERMIT THE CONTINUOUS MOVEMENT OF TRAFFIC IN ALL ALLOWABLE DIRECTIONS AT ALL TIMES.
15. THE CONTRACTOR SHALL PROVIDE FOR THE PASSAGE OF TRAFFIC THROUGH THE PROJECT WITH SIGNS, LIGHTS AND BARRICADES IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS REQUIRED FOR MAINTENANCE ACTIVITIES AND TO THE SATISFACTION OF THE ENGINEER.
16. LANE CLOSURES WILL NOT BE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY THE ENGINEER. IF LANE CLOSURES ARE APPROVED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER FIVE (5) DAYS IN ADVANCE OF THE CLOSURE. TCP'S SHALL CONFORM TO TXDOT STANDARDS.
17. THE CONTRACTOR SHALL NOT IMPACT EXISTING PEDESTRIAN FACILITIES OR CIRCULATION OUTSIDE OF THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE PROTECTIVE FENCING AROUND THE PROJECT AREA AT THE CONTRACTORS EXPENSE IF DESIRED BY THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PUBLIC ADJACENT TO THE PROJECT AREA.

Table with 3 columns: NO., DATE, DESCRIPTION. Includes a revision symbol in the top right corner.

SRL DESIGNED BY: SRL DRAWN BY: JTH CHECKED BY:

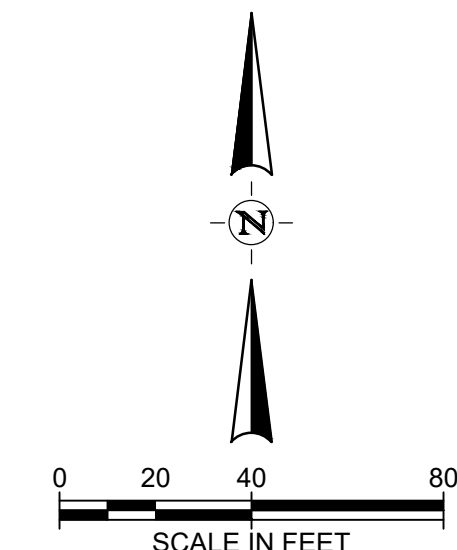


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PORTER PARK POND REHABILITATION GENERAL NOTES

PROJECT NO.: 57185.001 ISSUED: 01/23/2025 SCALE: N/A 02 PAGE NUMBER 02 OF 19

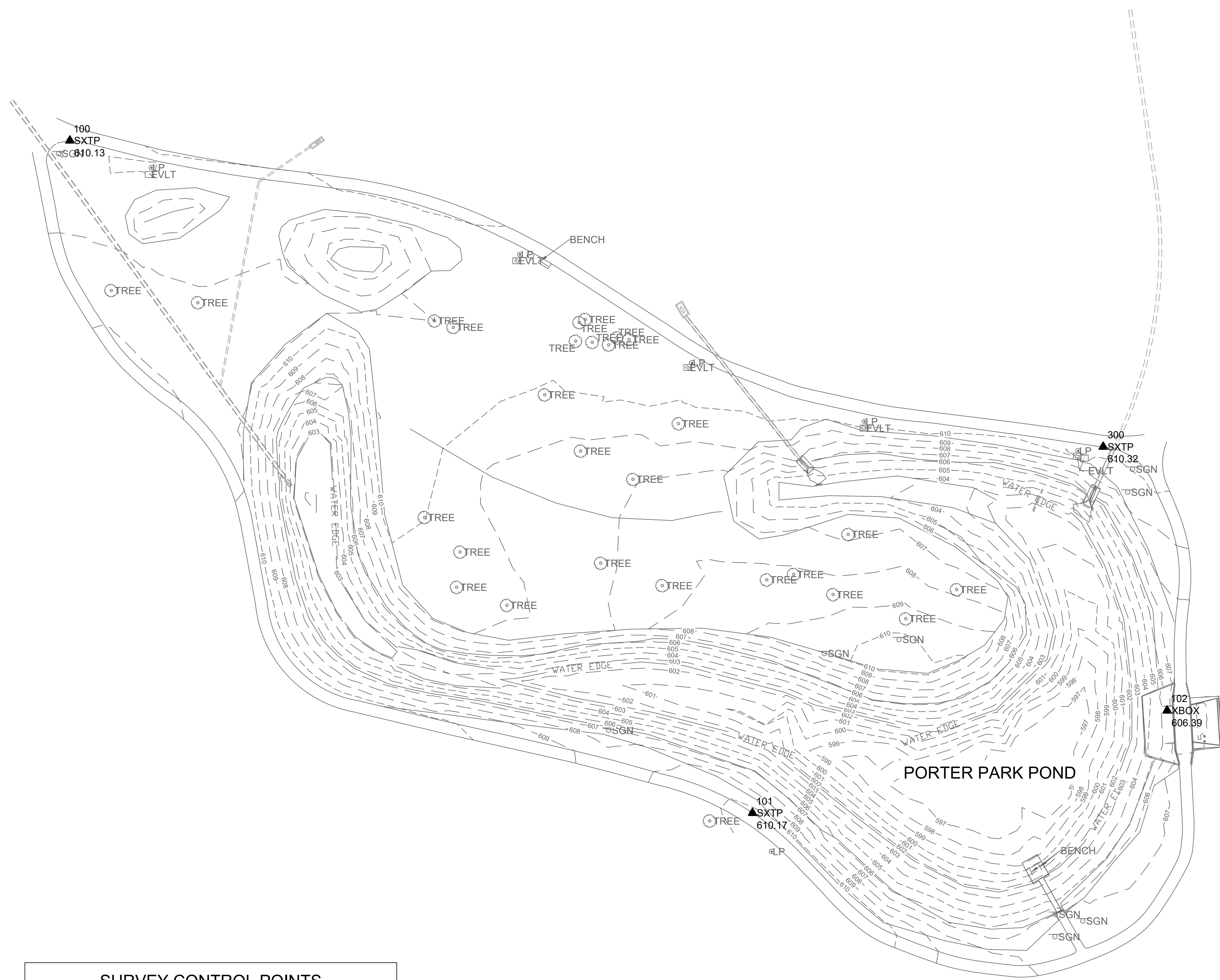


LEGEND:

- 101 CONTROL POINT NO.
- SURVEY DATA

NOTES:

1. BASIS OF BEARING IS THE TEXAS COORDINATE SYSTEM NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD83). DISTANCES SHOWN ARE US SURVEY FEET DISPLAYED IN SURFACE VALUES WITH A SCALE FACTOR OF 1.00015.



SURVEY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	7173972.40	2370605.08	610.13	SET "X" TRAVERSE POINT
101	7173522.34	2371081.84	610.17	SET "X" TP
102	7173590.96	2371339.24	606.39	SET "X" W/BOX CUT
300	7173767.51	2371296.48	610.32	SET "X" TRAVERSE POINT

EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)

FILE NAME: A:\57000s\57185\01\PM\CADD\Sheets\C-PLAN-PROJ-57185.dwg DATE: January 23, 2025, TIME: 11:29 AM, USER: an3803

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PORTER PARK POND REHABILITATION

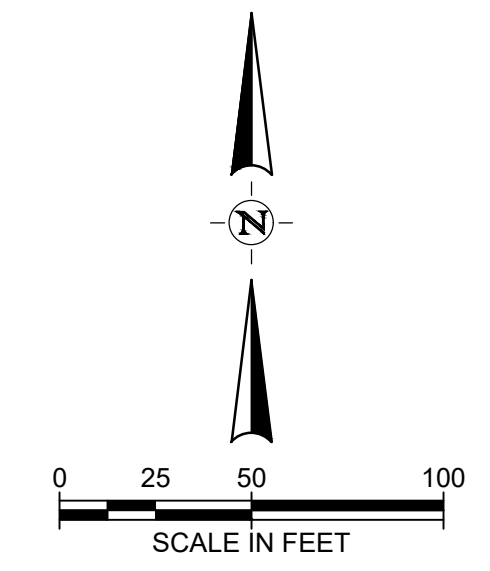
PROJECT LAYOUT

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 40'

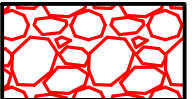
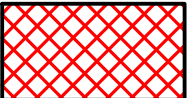
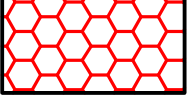

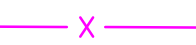

03

PAGE NUMBER 03 OF 19

FILE NAME: A:\57000s\57185\01\PW\CADD\Sheets\C-PLAN-ACS-57185.dwg DATE: January 23, 2025, TIME: 11:36 AM, USER: an3803



LEGEND:

-  STABILIZED CONSTRUCTION ENTRANCE
-  CONSTRUCTION PROTECTION MAT
-  STOCKPILE/STAGING AREA
-  ACCESS ROUTES
-  TEMPORARY PARK SECURITY FENCING
-  TRAFFIC SIGN

NOTES:

1. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT EXISTING SECTIONS OF CONCRETE TRAIL THAT MUST BE CROSSED TO ACCESS PROJECT SITE. IF DAMAGES TO THE EXISTING CONCRETE TRAIL OCCUR DURING THE COURSE OF CONSTRUCTION WORK THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF THE DAMAGED TRAIL SECTION AT THEIR OWN EXPENSE.

REVISION NO.	DATE	DESCRIPTION

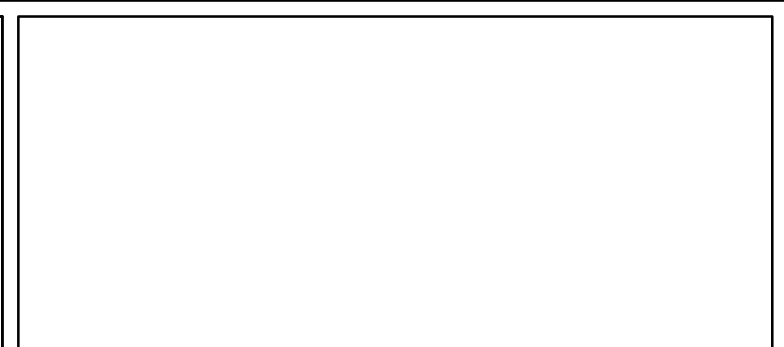
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 FIRM / BUSINESS NO. STATE



PORTER PARK POND REHABILITATION

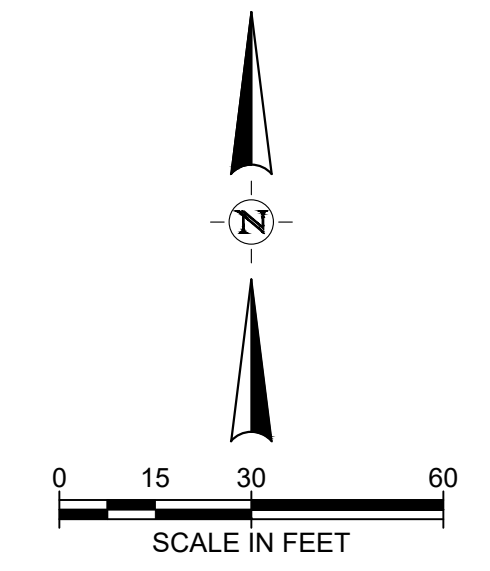
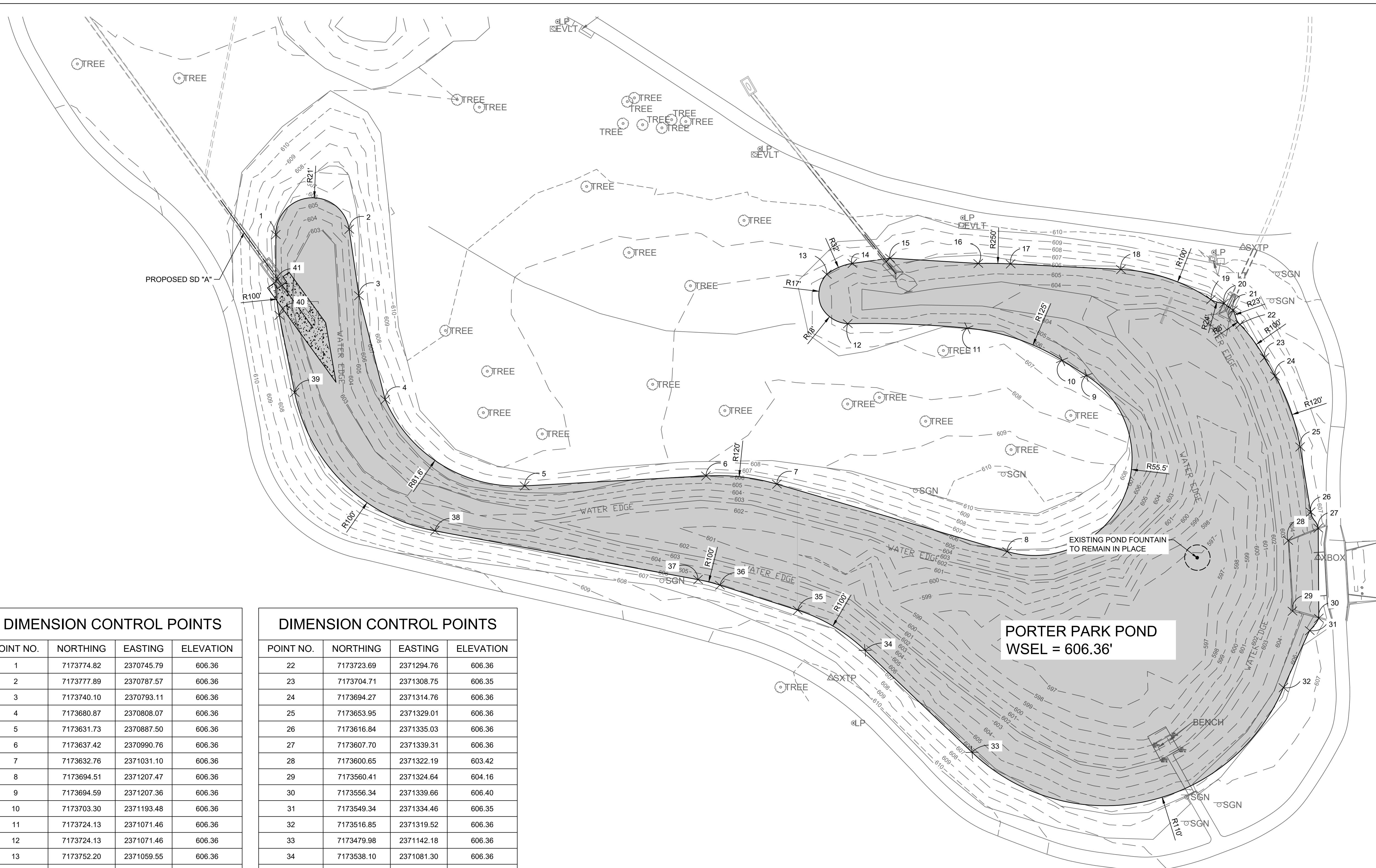
ACCESS AND STAGING PLAN

PROJECT NO.: 57185.001
 ISSUED: 01/23/2025
 SCALE: 1" = 50'

04

PAGE NUMBER 04 OF 19

FILE NAME: A:\57000us7185\01\PM\CADD\Sheets\C-PLAN-DIMS-57185.dwg DATE: January 23, 2025, TIME: 11:24 AM, USER: ah3803



LEGEND:

- NORMAL POOL
- SURVEY DATA
- POINT NUMBER

DIMENSION CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION
1	7173774.82	2370745.79	606.36
2	7173777.89	2370787.57	606.36
3	7173740.10	2370793.11	606.36
4	7173680.87	2370808.07	606.36
5	7173631.73	2370887.50	606.36
6	7173637.42	2370990.76	606.36
7	7173632.76	2371031.10	606.36
8	7173694.51	2371207.47	606.36
9	7173694.59	2371207.36	606.36
10	7173703.30	2371193.48	606.36
11	7173724.13	2371071.46	606.36
12	7173724.13	2371071.46	606.36
13	7173752.20	2371059.55	606.36
14	7173758.45	2371074.06	606.36
15	7173761.43	2371095.50	606.36
16	7173704.74	2371308.78	606.36
17	7173758.17	2371164.17	606.36
18	7173755.01	2371226.97	606.36
19	7173737.82	2371278.20	606.36
20	7173735.69	2371285.68	606.36
21	7173731.80	2371290.82	606.36

DIMENSION CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION
22	7173723.69	2371294.76	606.36
23	7173704.71	2371308.75	606.35
24	7173694.27	2371314.76	606.36
25	7173653.95	2371329.01	606.36
26	7173616.84	2371335.03	606.36
27	7173607.70	2371339.31	606.36
28	7173600.65	2371322.19	603.42
29	7173560.41	2371324.64	604.16
30	7173556.34	2371339.66	606.40
31	7173549.34	2371334.46	606.35
32	7173516.85	2371319.52	606.36
33	7173479.98	2371142.18	606.36
34	7173538.10	2371081.30	606.36
35	7173560.95	2371042.92	606.36
36	7173575.21	2370998.65	606.36
37	7173578.36	2370986.21	606.36
38	7173606.14	2370836.35	606.36
39	7173684.94	2370756.50	606.36
40	7173728.91	2370747.75	606.36
41	7173748.30	2370745.83	606.36

PORTER PARK POND
WSEL = 606.36'

EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THIS AREA (1-800-DIG-TESS)

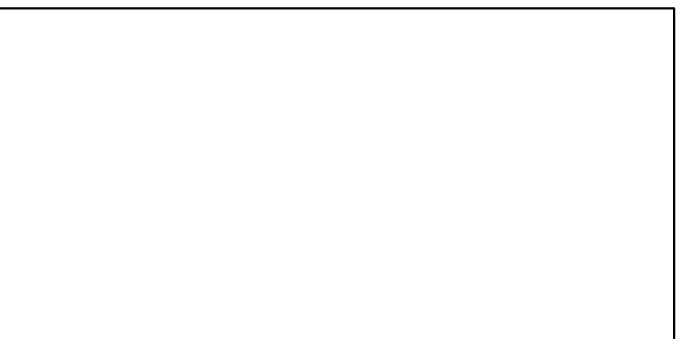
NO.	DATE	DESCRIPTION

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PORTER PARK POND REHABILITATION

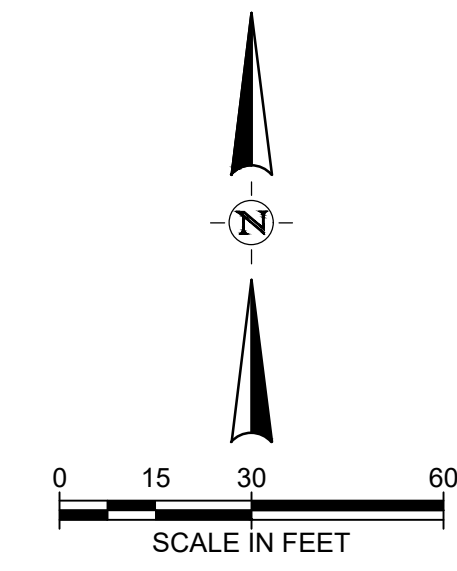
DIMENSION CONTROL PLAN

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 30'


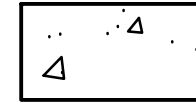
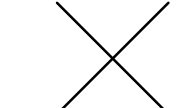


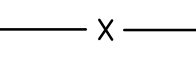
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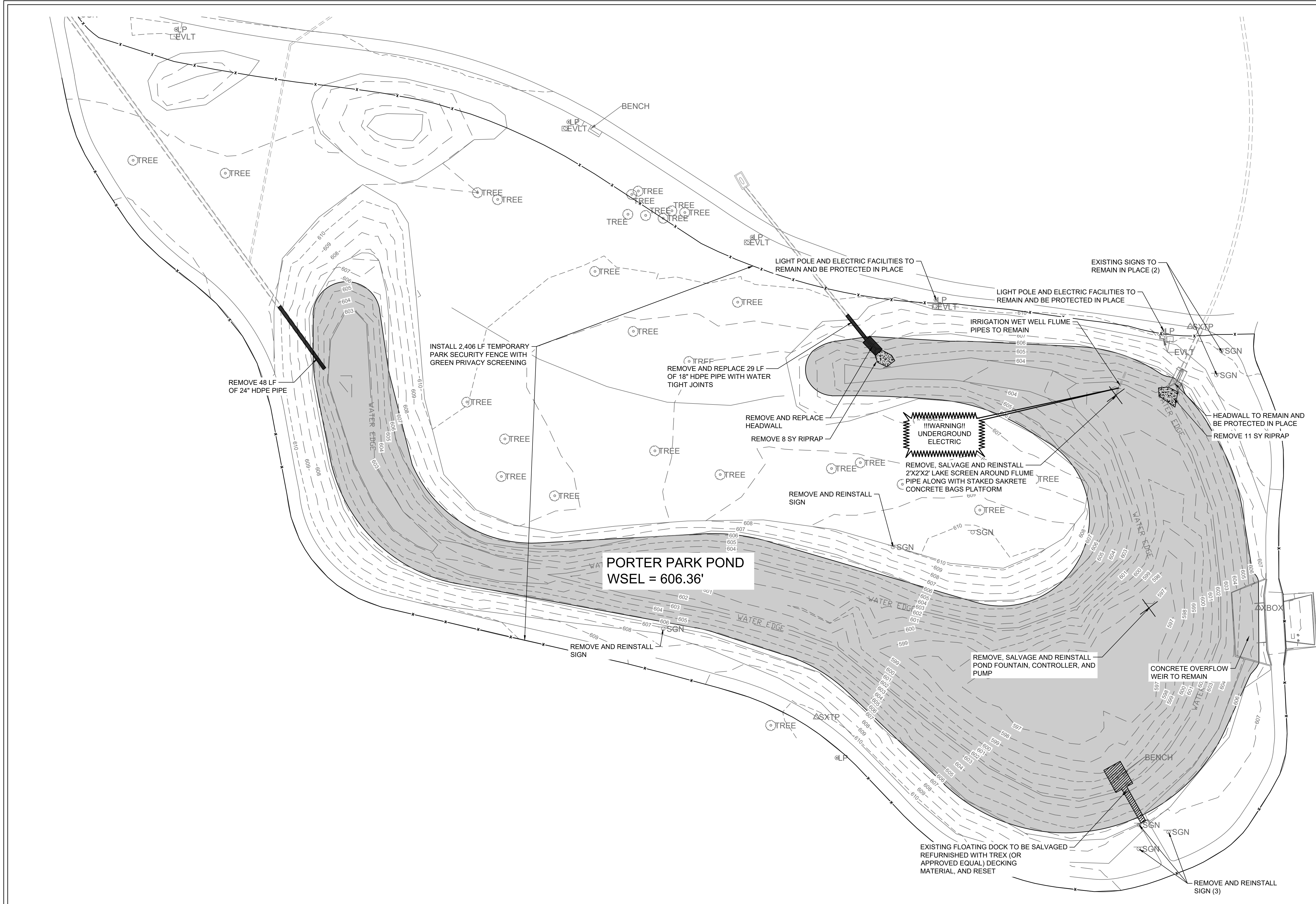
PAGE NUMBER 05 OF 19

FILE NAME: A:\5700057185\001\PM\CADD\Sheets\C-PLAN-DEMO-57185.dwg DATE: January 23, 2025, TIME: 11:41 AM, USER: an3803




LEGEND:

-  STORM DRAIN/HEADWALL REMOVAL
-  RIPRAP REMOVAL
-  FEATURE TO BE REMOVED OR RELOCATED
-  SURVEY DATA
-  NORMAL POOL
-  TEMPORARY PARK SECURITY FENCING



EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL, AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)



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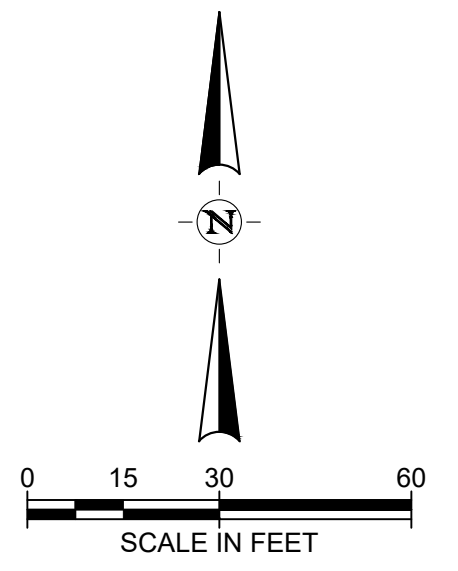
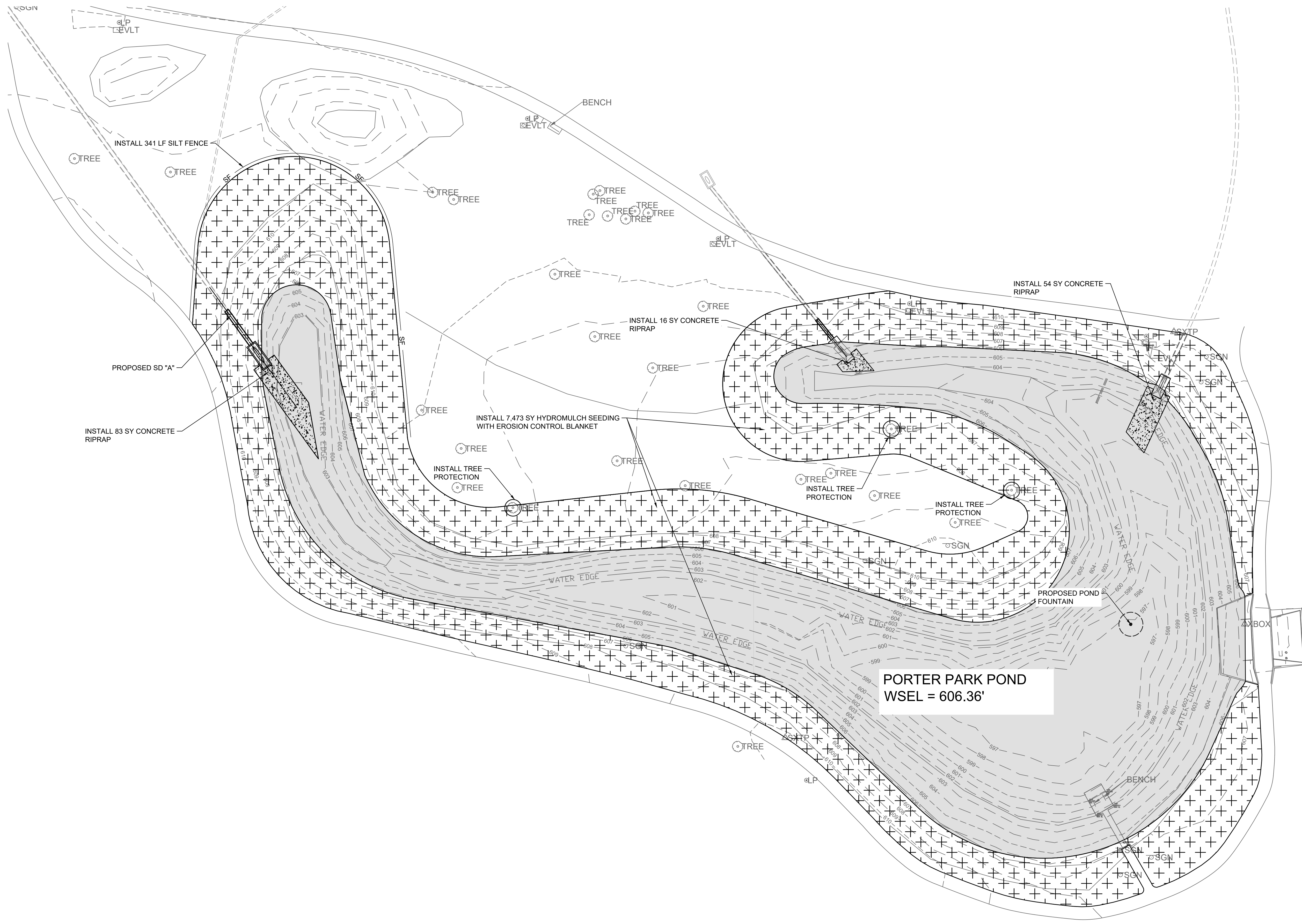


PORTER PARK POND REHABILITATION

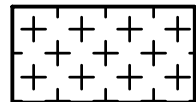



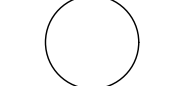
PORTER PARK POND REHABILITATION
DEMOLITION PLAN

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 30'
06
PAGE NUMBER 06 OF 19

FILE NAME: A:\57000s\57185\001\PM\CADD\Sheets\C-PLAN-ERCN-57185.dwg DATE: January 23, 2025, TIME: 11:25 AM, USER: ah3803



LEGEND:


-  HYDROMULCH SEEDING WITH SOIL RETENTION BLANKET
-  CONCRETE RIPRAP
-  SF SILT FENCE
-  NORMAL POOL
-  TREE PROTECTION

NOTES:

1. PROPOSED HYDROMULCH SEEDING WITH SOIL RETENTION BLANKET SHOWN ON THIS SHEET INCLUDES AREAS BEYOND THE PROJECT LIMITS THAT ARE GRADED AS REQUIRED BY THE GRADING SHEET. AREAS DISTURBED OUTSIDE THE LIMITS SHOWN ON THE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. VEGETATION RE-ESTABLISHMENT ASSOCIATED WITH DAMAGE FROM ACCESS SHALL BE INCIDENTAL TO THE PROJECT BID ITEMS. ALL DISTURBED AREAS SHALL BE RESTORED IN KIND WITH GRASS AND SOIL RETENTION BLANKETS WHEN SLOPES EXCEED 6:1

PORTER PARK POND
WSEL = 606.36'

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PORTER PARK POND REHABILITATION

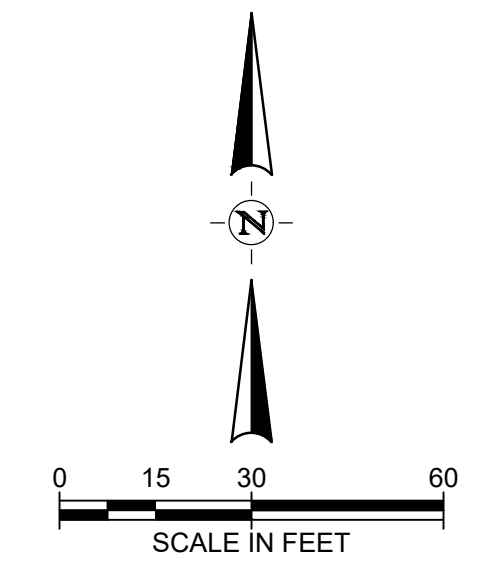
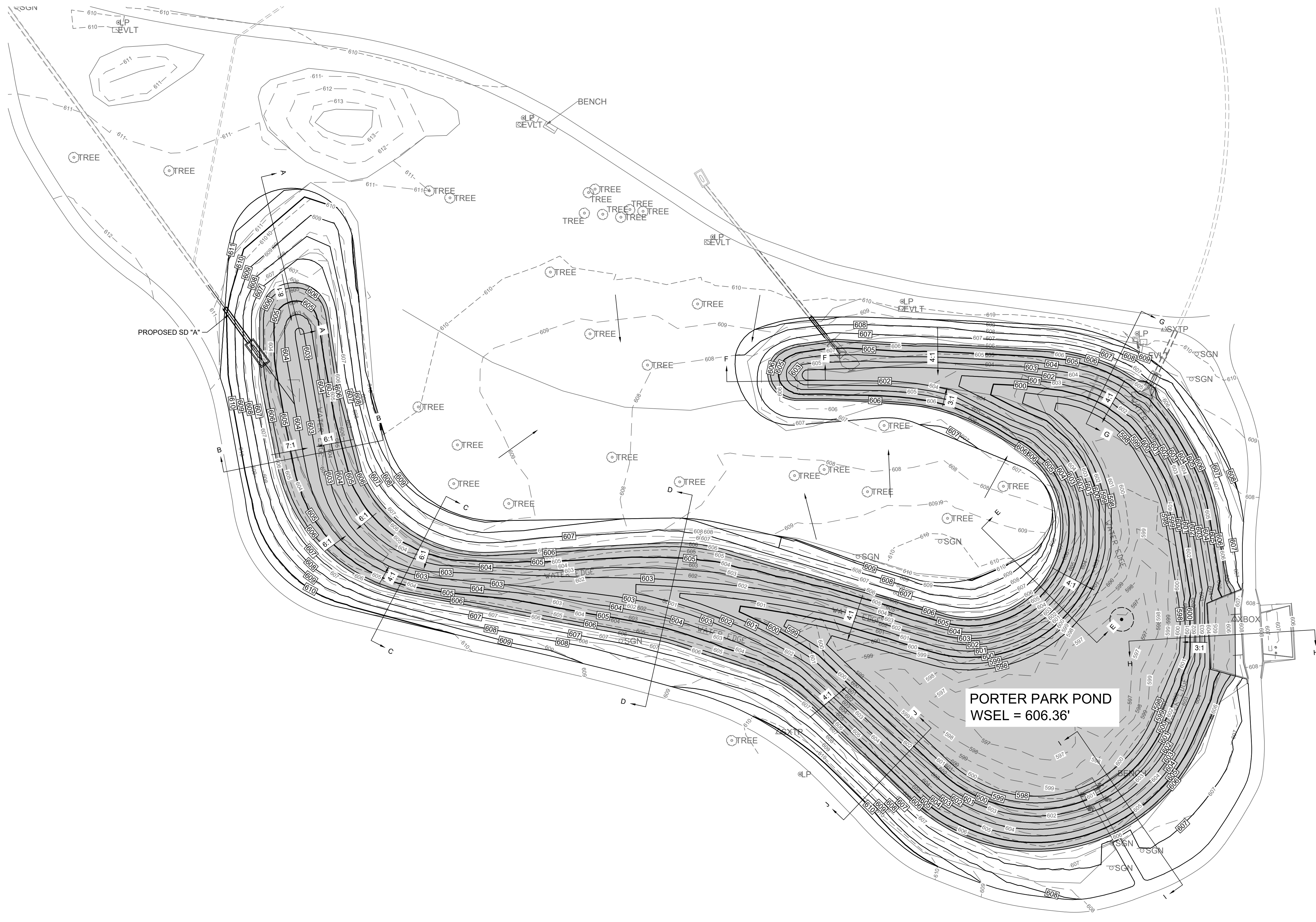
EROSION CONTROL PLAN

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 30'

07

PAGE NUMBER 07 OF 19

FILE NAME: A:\57000s\57185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 1:39 PM, USER: ah3803




LEGEND:

- 606 - EXISTING CONTOUR
- 606 - PROPOSED CONTOUR
- FLOW DIRECTION

PORTER PARK POND
WSEL = 606.36'

EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL, AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)



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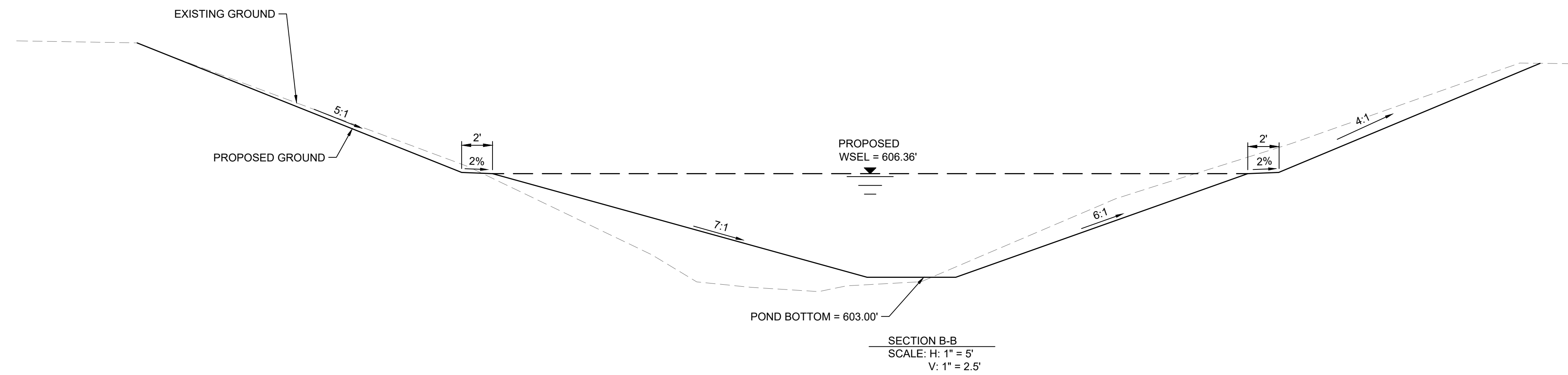
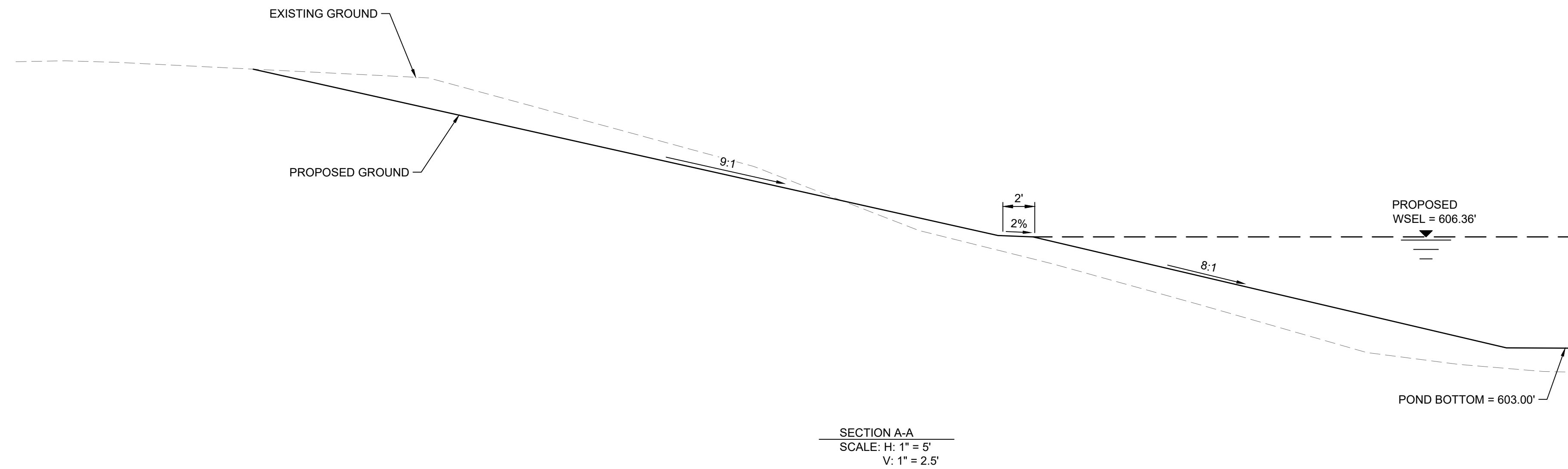


PORTER PARK POND REHABILITATION


GRADING PLAN

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1"=30'
08
PAGE NUMBER 08 OF 19

FILE NAME: A:\5700057185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 11:26 AM, USER: ah3803



EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)



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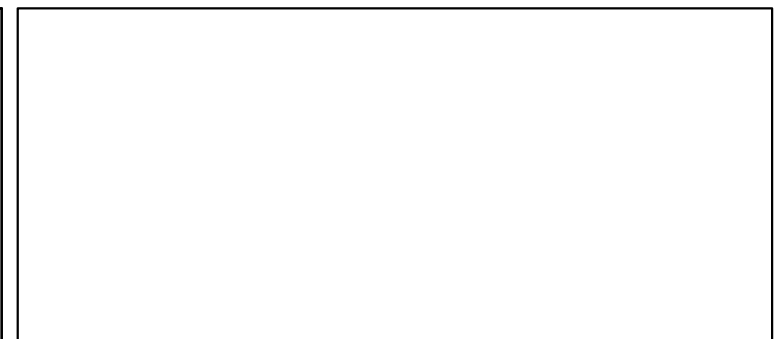


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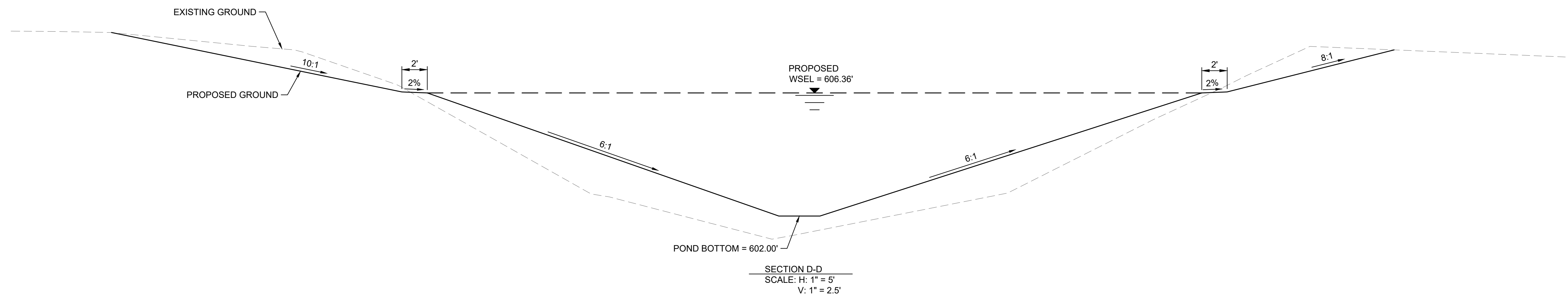
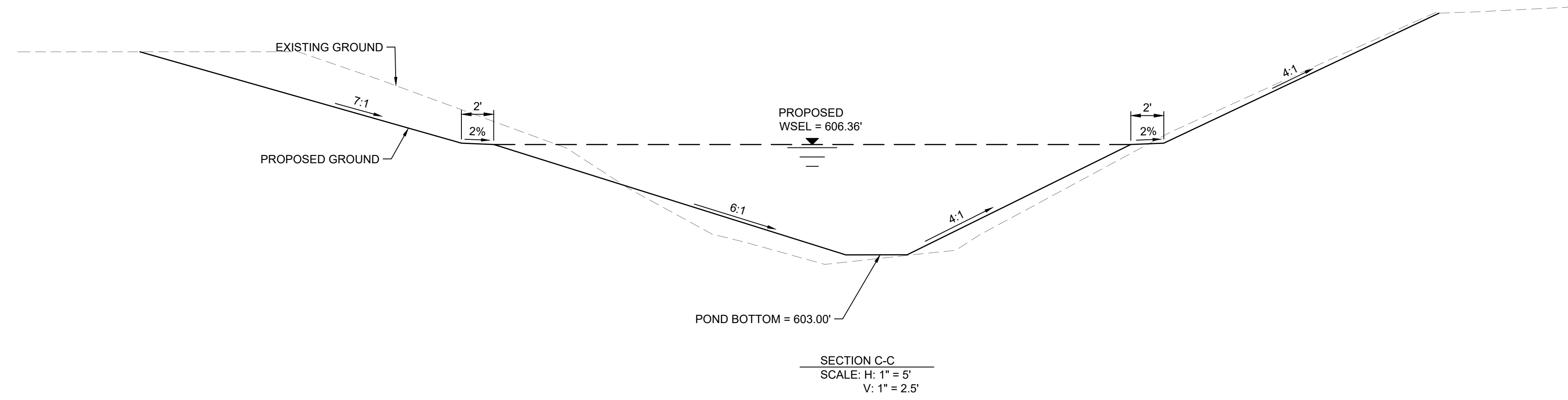
GRADING SECTIONS
SHEET 1 OF 5

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 5'


09

PAGE NUMBER 09 OF 19

FILE NAME: A:\5700057185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 11:26 AM, USER: ah3803



EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL, AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)



NO.	DATE	DESCRIPTION

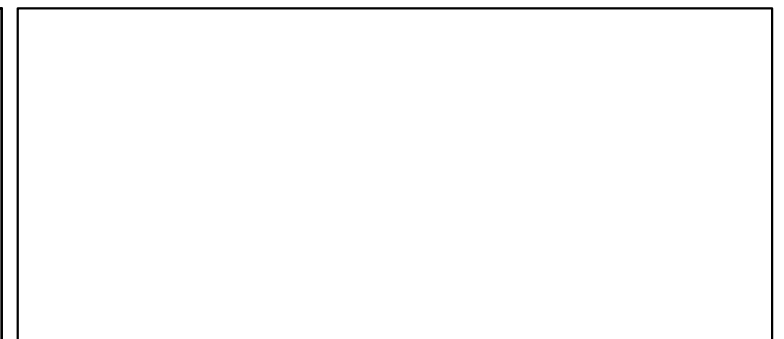
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SRL
DRAWN BY:
JTH
CHECKED BY:



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FORT WORTH, TEXAS 76137-4204
TEL. (817) 847-1422

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SAMSON R. LOTIGO 149676
NAME PE LICENSE NO.
1/23/2025
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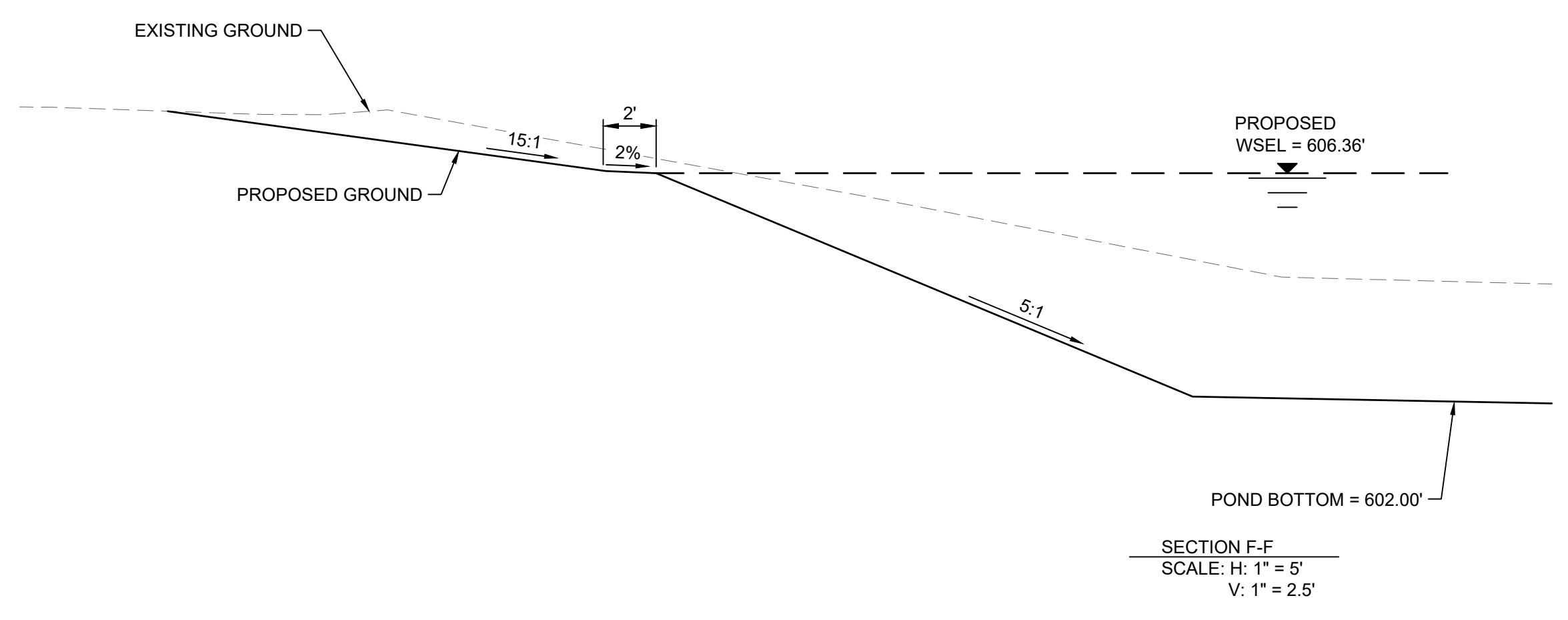
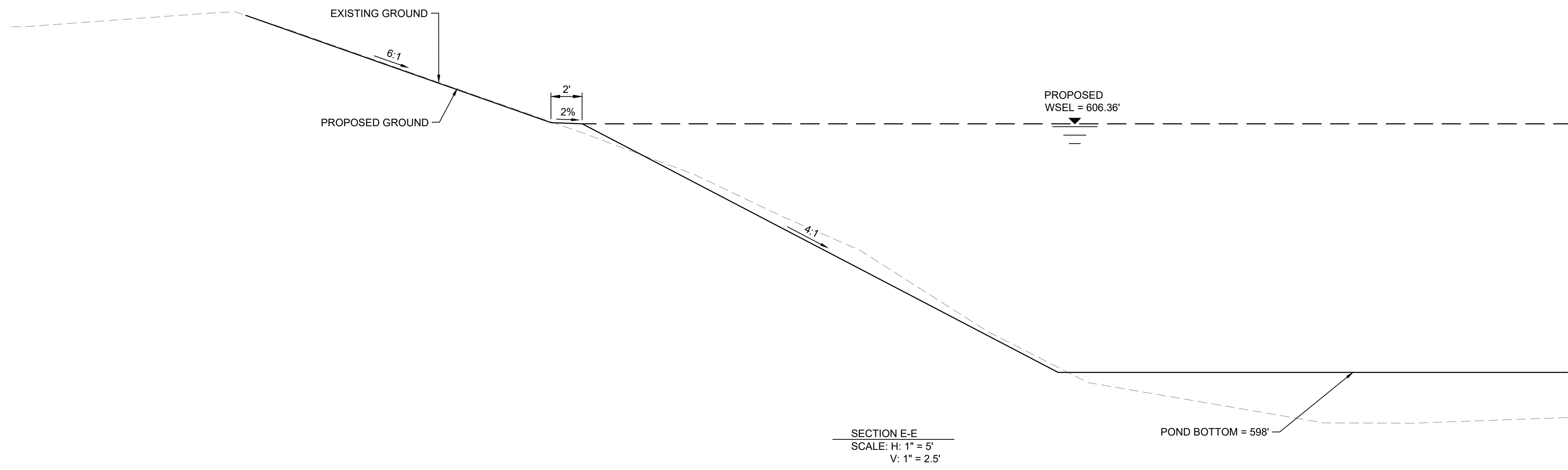


PORTER PARK POND REHABILITATION


GRADING SECTIONS
SHEET 2 OF 5

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 5'
10
PAGE NUMBER 10 OF 19

FILE NAME: A:\57000us7185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 11:26 AM, USER: ah3803



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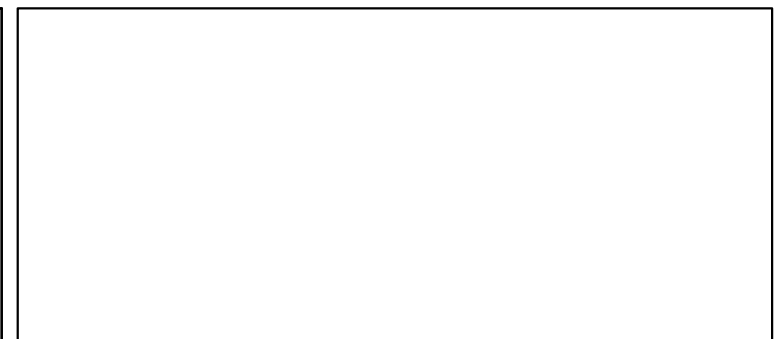


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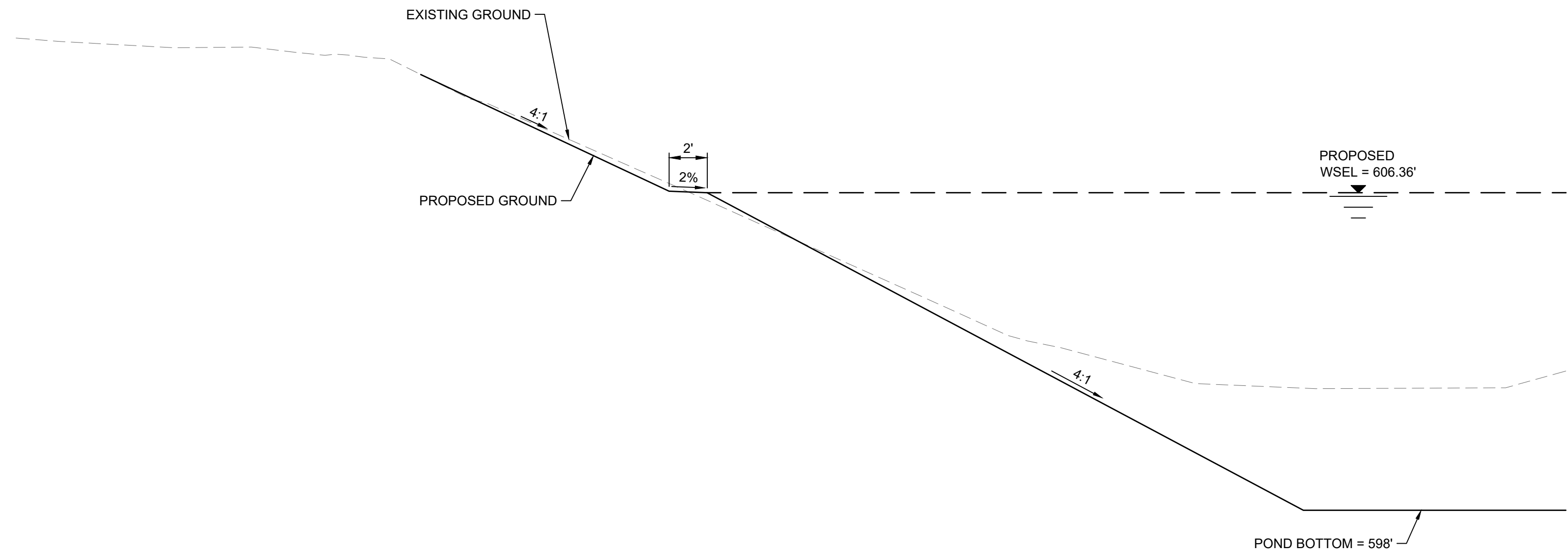
PORTER PARK POND REHABILITATION

GRADING SECTIONS
SHEET 3 OF 5

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 5'

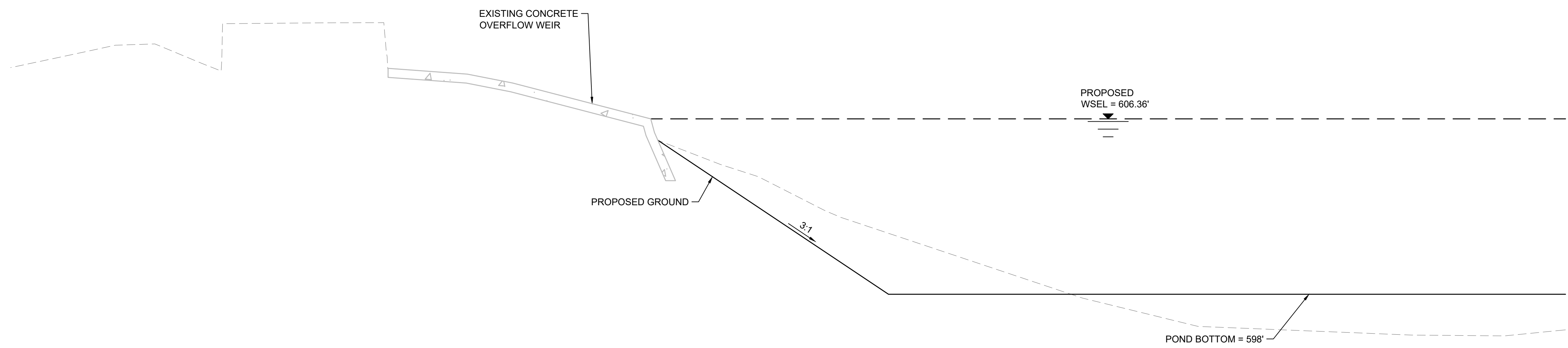
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PAGE NUMBER 11 OF 19

FILE NAME: A:\57000\57185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 11:26 AM, USER: an3803




SECTION G-G
SCALE: H: 1" = 5'
V: 1" = 2.5'

NOTE:
1. EXISTING CONCRETE WEIR TO REMAIN IN PLACE. ANY DAMAGE TO EXISTING CONCRETE WEIR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



SECTION H-H
SCALE: H: 1" = 5'
V: 1" = 2.5'

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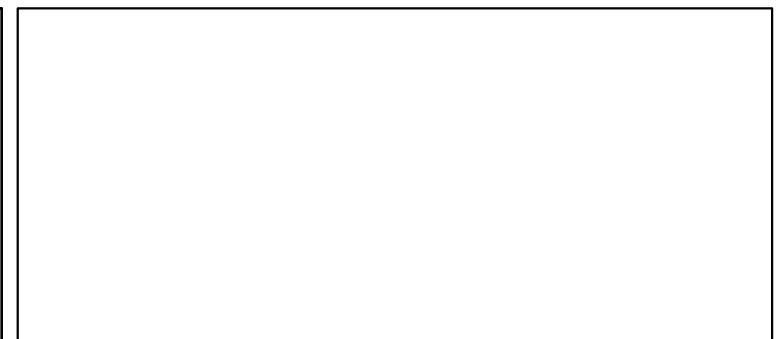


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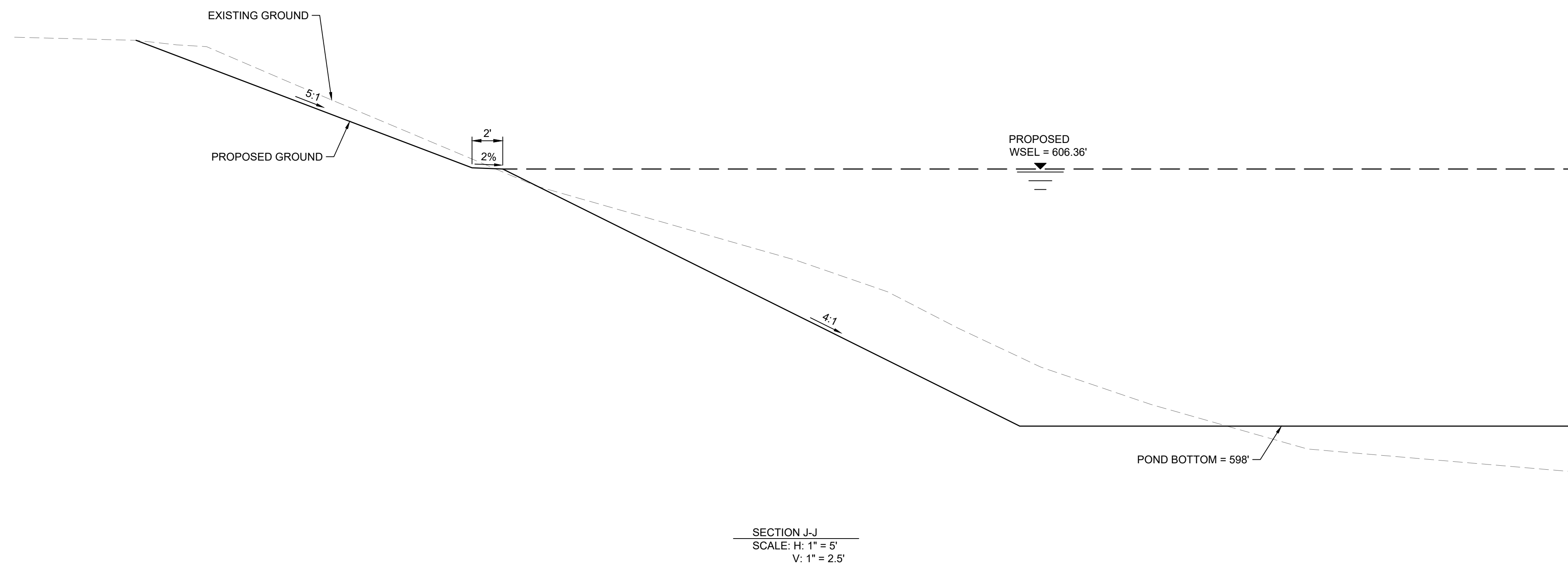
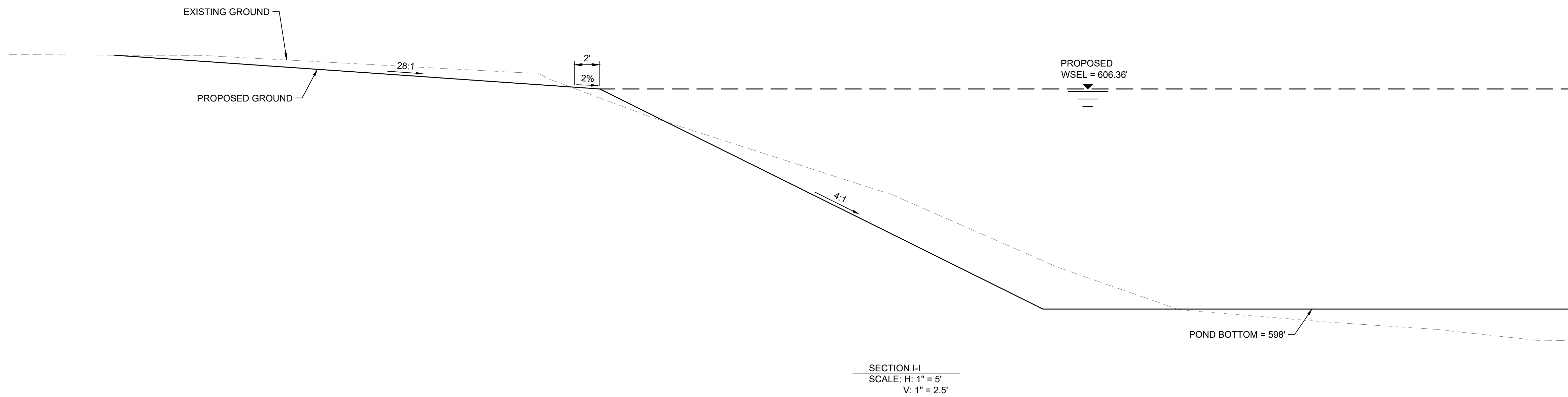
PORTER PARK POND REHABILITATION

GRADING SECTIONS
SHEET 4 OF 5


PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 5'

12
PAGE NUMBER 12 OF 19

FILE NAME: A:\5700057185\001\PM\CADD\Sheets\C-PLAN-GRAD-57185.dwg DATE: January 23, 2025, TIME: 11:26 AM, USER: an3803



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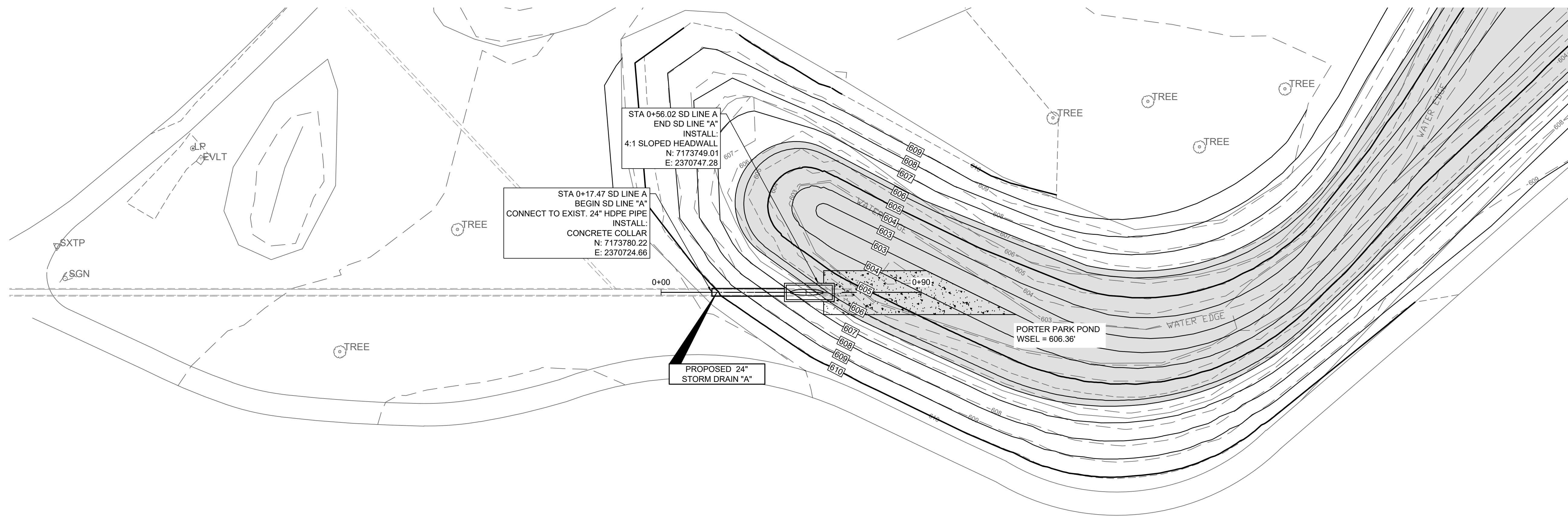


PORTER PARK POND REHABILITATION

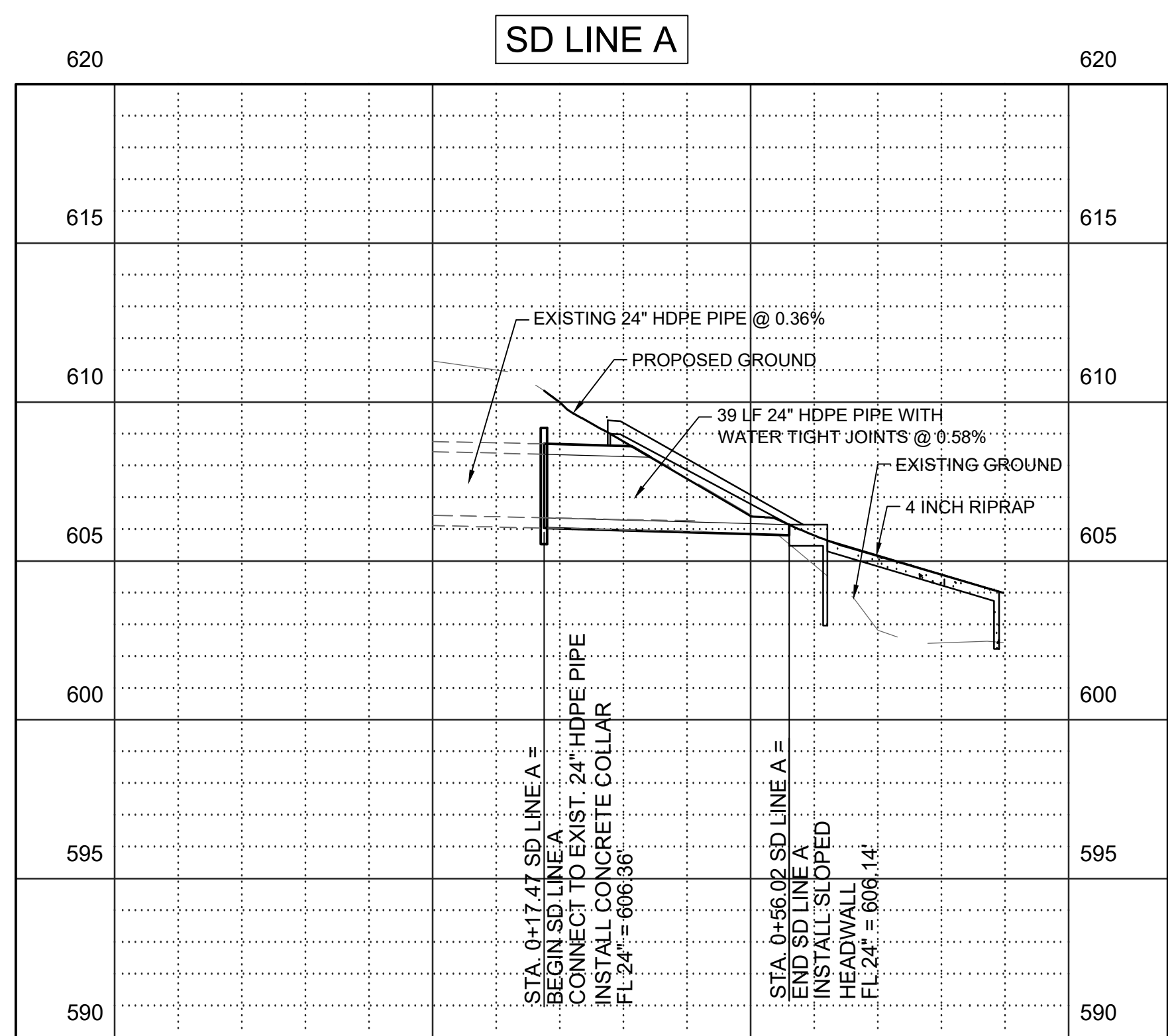
GRADING SECTIONS
SHEET 5 OF 5

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 5'
13
PAGE NUMBER 13 OF 19


FILE NAME: A:\57000s\57185\001\PM\CADD\Sheets\C-PLAN-STRM+LPR-57185.dwg DATE: January 23, 2025, TIME: 11:44 AM, USER: ah3803



- NOTES:**
- CONTRACTOR SHALL LOCATE EXISTING STORM DRAIN PIPE AND VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO FABRICATING OR ORDERING MATERIALS.
 - STORM DRAIN TRENCH SHALL BE BACKFILLED AND FINE GRADED TO MEET GRADES PROVIDED IN THE PLANS OR PRE-PROJECT CONDITIONS AS SPECIFIED.



EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL AND/OR VERTICAL LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THE THIS AREA (1-800-DIG-TESS)



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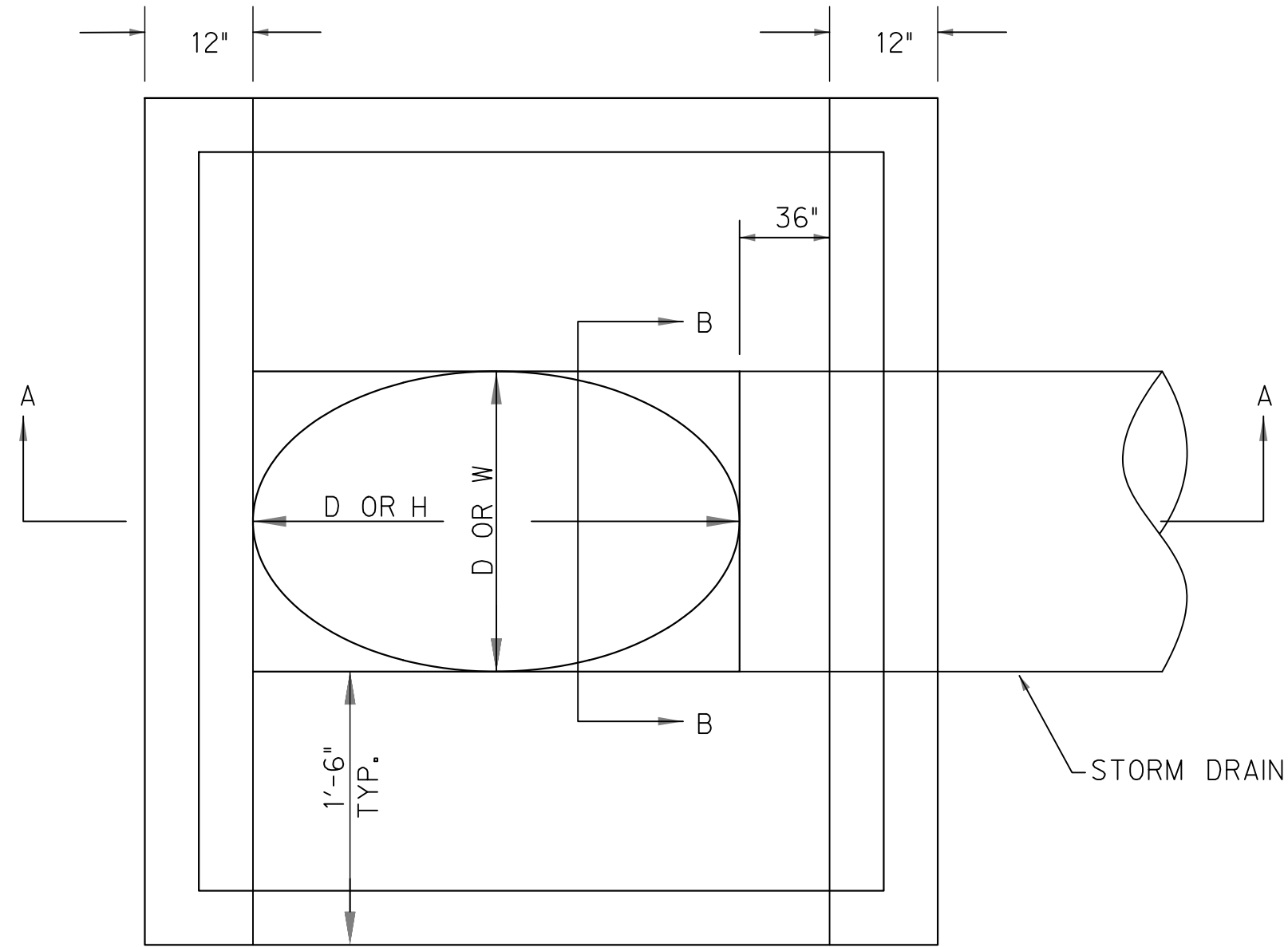
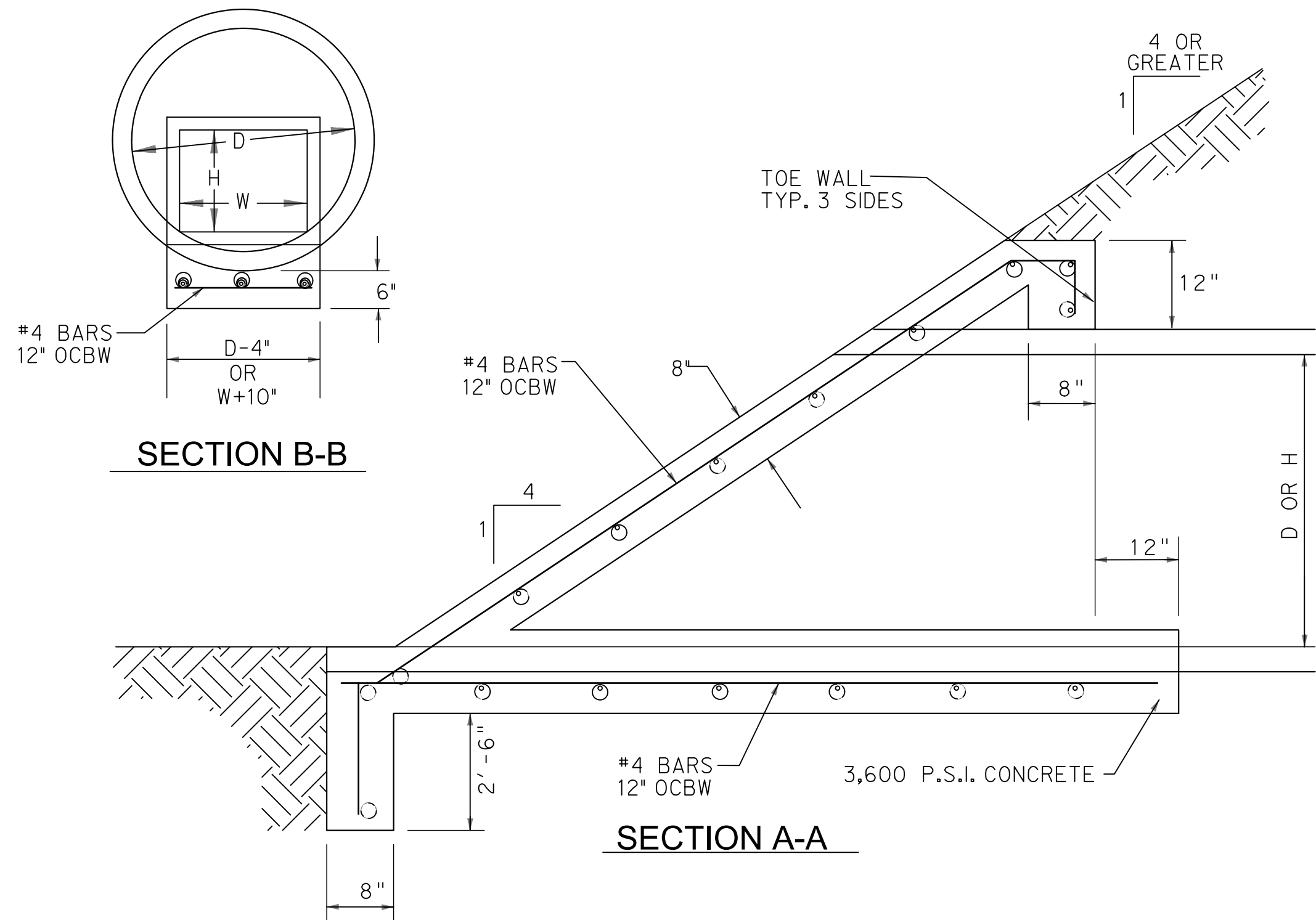
PORTER PARK POND REHABILITATION

SD LINE "A"
PLAN AND PROFILE
BEGIN TO END

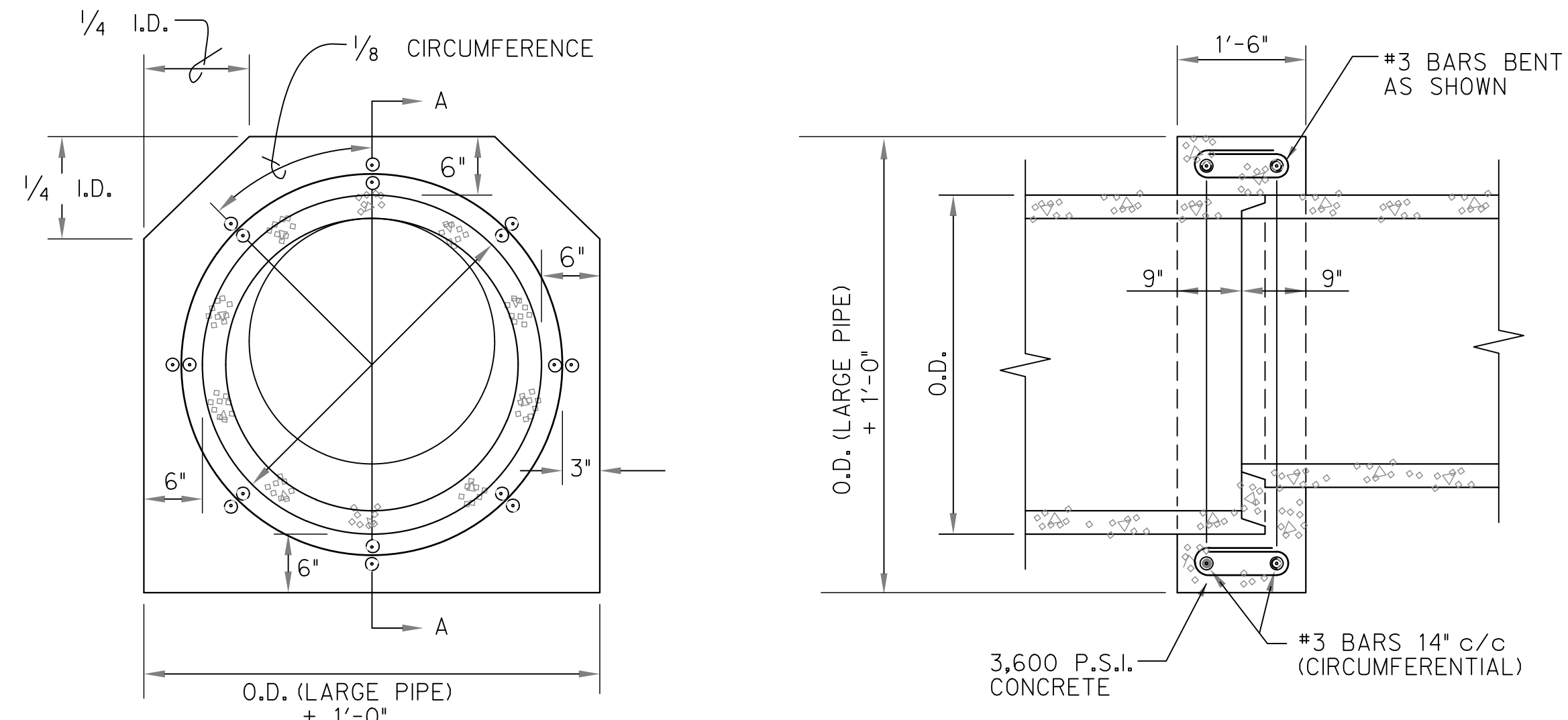
PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: 1" = 30'

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PAGE NUMBER 14 OF 19

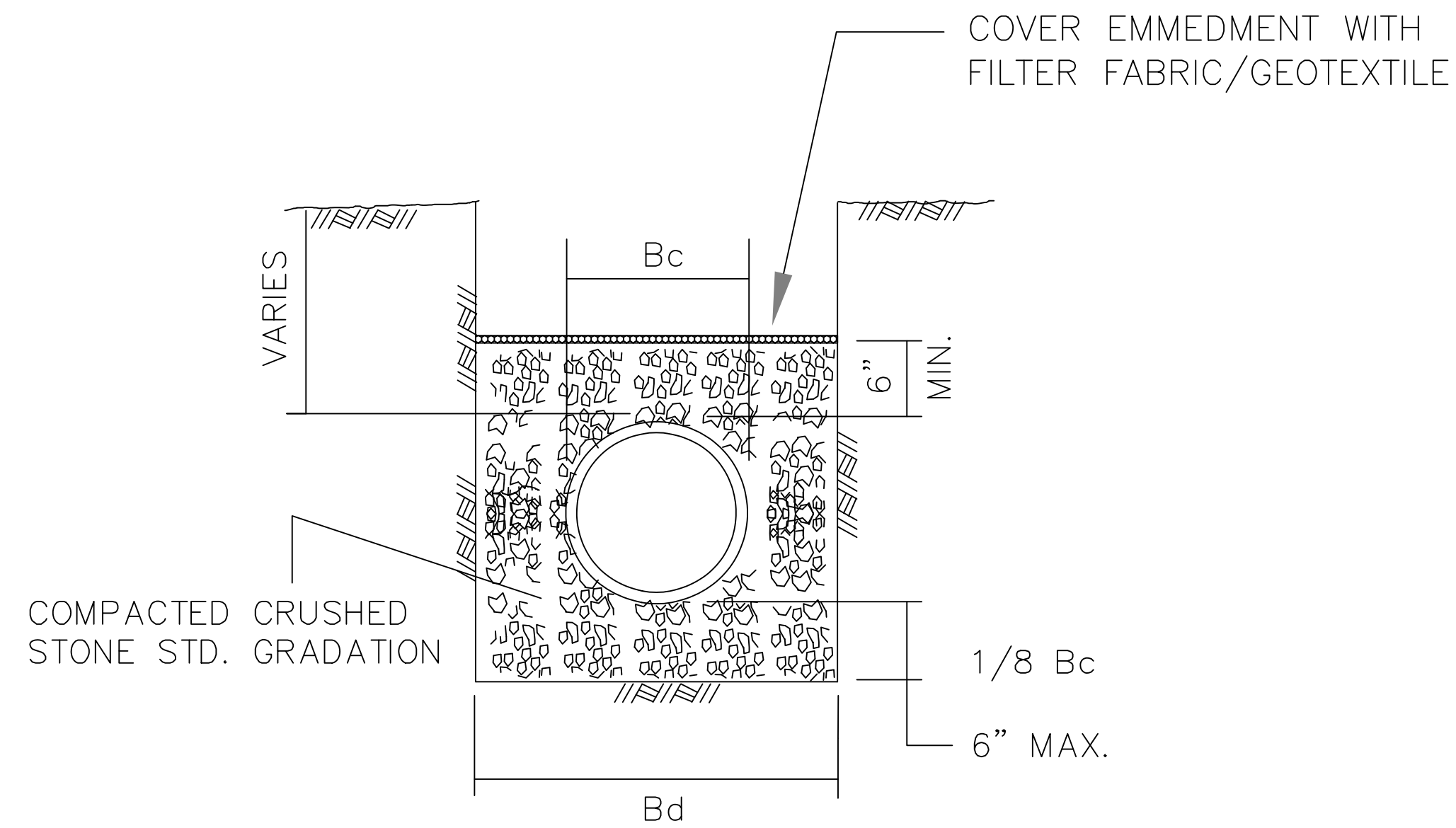
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PLAN
SLOPED HEADWALL
N.T.S.



CONCRETE COLLAR DETAIL (PIPE)



CLASS "H"
N.T.S.

- NOTES:**
1. Bc = OUTSIDE DIAMETER OF PIPE
 2. Bd = TRENCH WIDTH
 3. D = INSIDE DIAMETER OF PIPE
 4. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

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PORTER PARK POND REHABILITATION

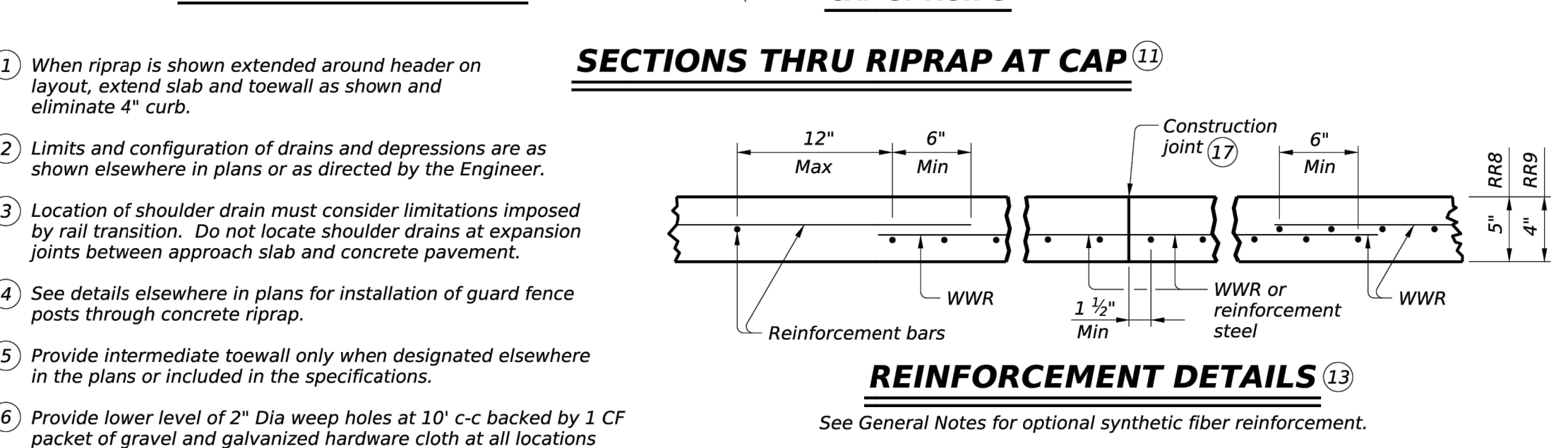
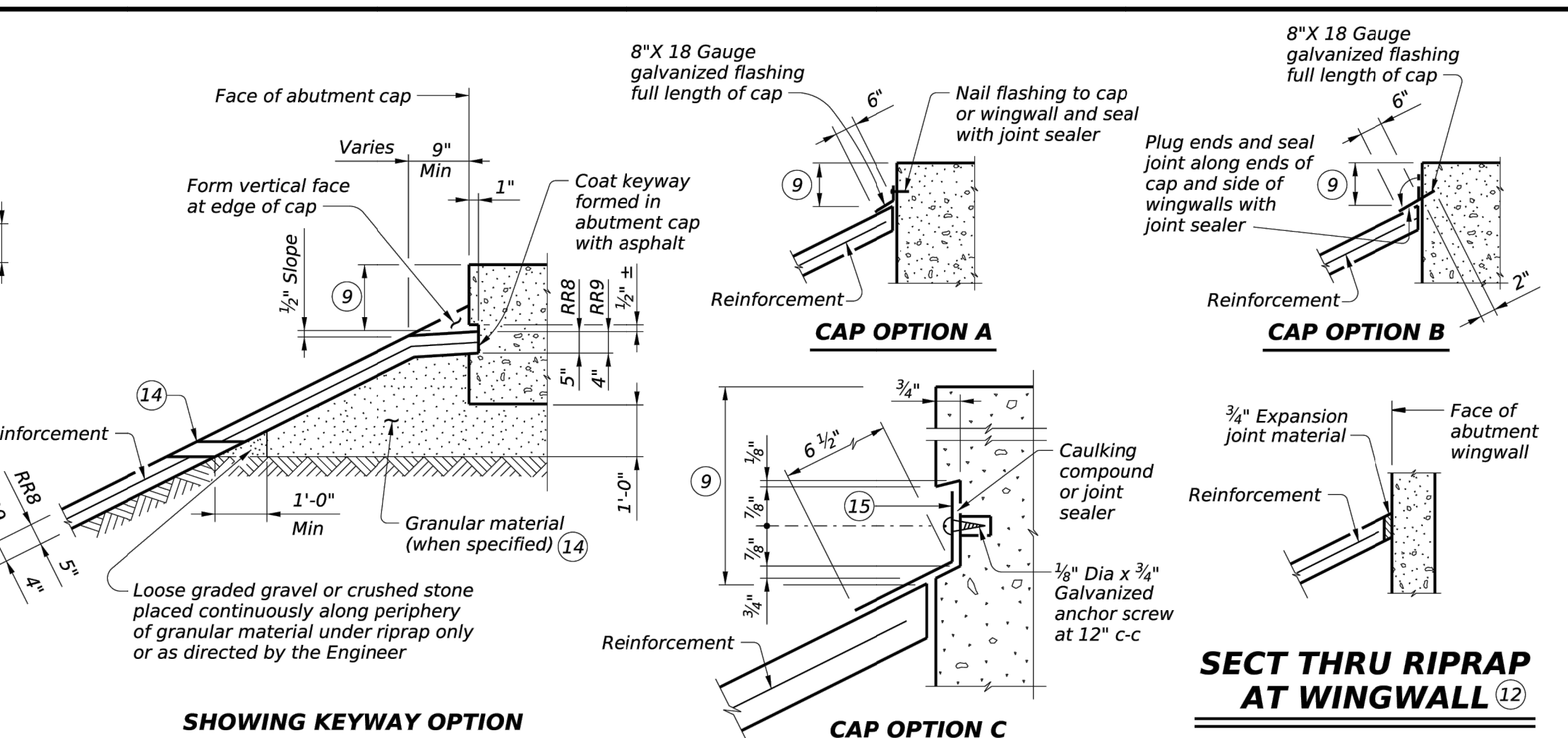
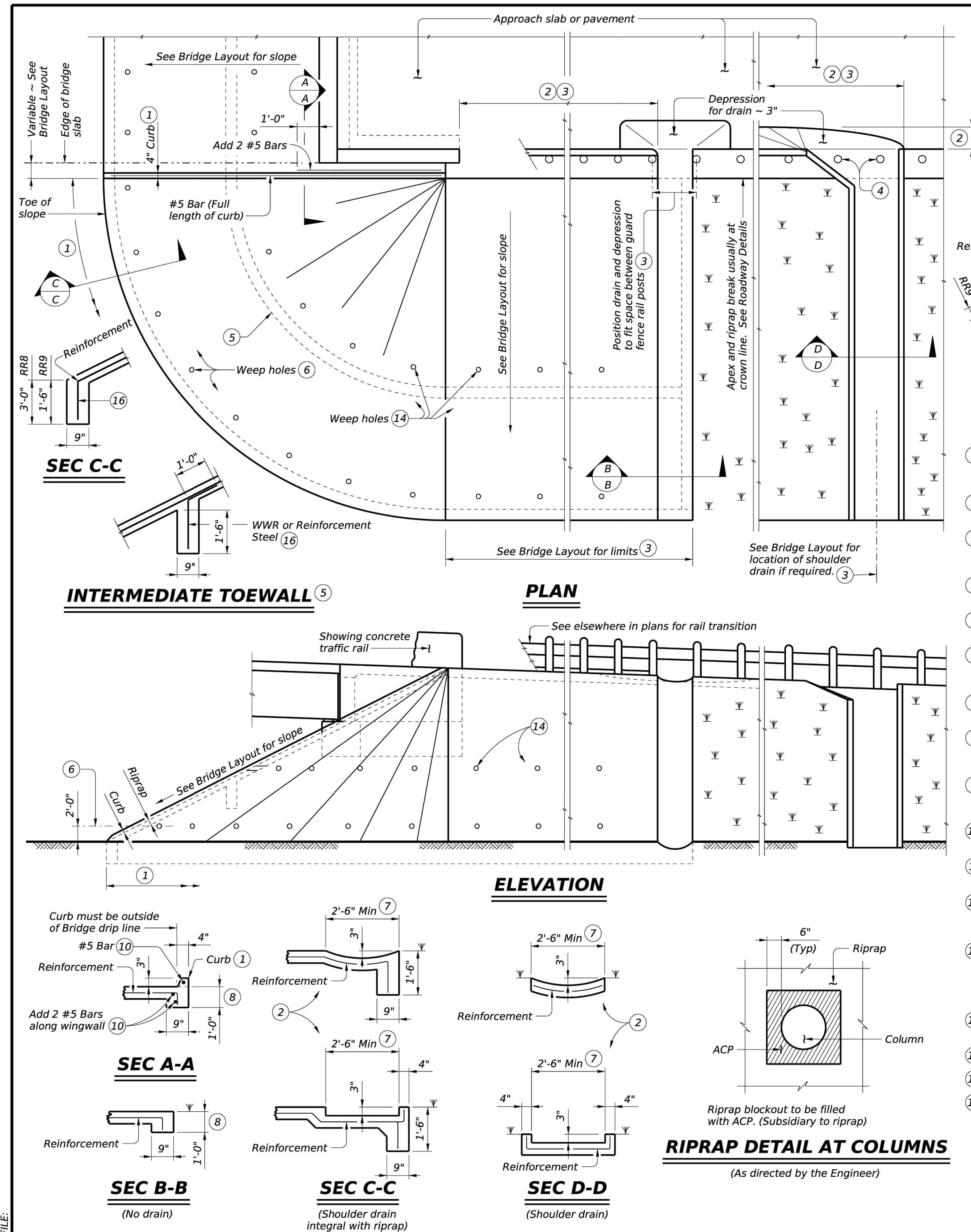
STORM DRAIN DETAILS
SHEET 1 OF 1

PROJECT NO.: 57185.001
ISSUED: 01/23/2025
SCALE: N/A

15
PAGE NUMBER 15 OF 19

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- 1 When riprap is shown extended around header on layout, extend slab and toewall as shown and eliminate 4" curb.
- 2 Limits and configuration of drains and depressions are as shown elsewhere in plans or as directed by the Engineer.
- 3 Location of shoulder drain must consider limitations imposed by rail transition. Do not locate shoulder drains at expansion joints between approach slab and concrete pavement.
- 4 See details elsewhere in plans for installation of guard fence posts through concrete riprap.
- 5 Provide intermediate toewall only when designated elsewhere in the plans or included in the specifications.
- 6 Provide lower level of 2" Dia weep holes at 10' c-c backed by 1 CF packet of gravel and galvanized hardware cloth at all locations unless directed by the Engineer to eliminate.
- 7 Use wider or other drain configurations if shown elsewhere in plans or if directed by the Engineer.
- 8 Wall extension may be reduced or modified if approved by the Engineer. Increase wall extension to 1'-6" whenever the optional intermediate toewall is called for in the plans.
- 9 Top of cap to top of riprap dimension varies as directed by the Engineer. Should be 9" Min for beam/slab type bridges and 1'-6" for slab span, box beam, or slab beam bridges.
- 10 #5 bars shown are required even when synthetic fiber reinforcing option is selected.
- 11 Provide sealing option for joint between the face of cap and riprap as designated by the Engineer or as shown elsewhere on plans.
- 12 Flashing (shown in Cap Option A) may be used at wingwall in addition to expansion joint material if shown on plans or directed by the Engineer.
- 13 Provide #3 reinforcing bars at 18" Spa c-c. Provide welded wire reinforcement (WWR) as 6x6-D2.9xD2.9 or D3xD3. Combinations of WWR and reinforcing bars may be used if both are permitted. Use lap splices of a minimum 6 inches, measured from the transverse wire of WWR, and the ends of reinforcing bars.
- 14 If granular material is specified, provide upper level of 2" Dia weep holes at 10' c-c backed by galvanized hardware cloth.
- 15 8" x 18 Gage galvanized sheet metal.
- 16 Provide WWR or #3 bars, with 1'-0" extension into slope.
- 17 WWR or reinforcing steel is continuous through riprap construction joints. Provide WWR or reinforcing steel that extends 1'-1" minimum into adjacent riprap on each side of construction joint even if synthetic reinforcing fiber is utilized.

GENERAL NOTES:
 Provide Class "B" concrete (f'c = 2,000 psi) unless noted elsewhere in plans.
 Provide Grade 60 reinforcing steel.
 Provide deformed welded wire reinforcement (WWR) meeting ASTM A1064, unless otherwise shown.
 Provide reinforcing bars, deformed WWR, or any suitable combination of both types for riprap reinforcing, unless specified elsewhere in the plans.
 Optionally synthetic fibers may be used if approved by the Engineer.
 Provide synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) in lieu of steel reinforcing in riprap concrete.
 Install construction joints or grooved joints extending the full slant slope height at intervals of approximately 20 feet unless otherwise directed by the Engineer.
 Hardware cloth, loose grade stone behind weep holes, flashing, or other sealing material are subsidiary to the bid item "Riprap."
 See Bridge Layout for limits of riprap.
 RR8 is to be used on stream crossings.
 RR9 is to be used on other embankments.

Texas Department of Transportation Bridge Division Standard

CONCRETE RIPRAP AND SHOULDER DRAINS EMBANKMENTS AT BRIDGE ENDS (TYPES RR8 & RR9)

CRR

FILE: MS-CRR-24.dgn	DW: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS				
DIST	COUNTY	SHEET NO.		

FOR CONTRACTOR'S INFORMATION ONLY:
 5" of RR8 = 0.015 CY/SF
 4" of RR9 = 0.012 CY/SF
 #3 Reinf at 18" c-c = 0.501 Lbs/SF
 6x6-D3xD3 = 0.408 Lbs/SF

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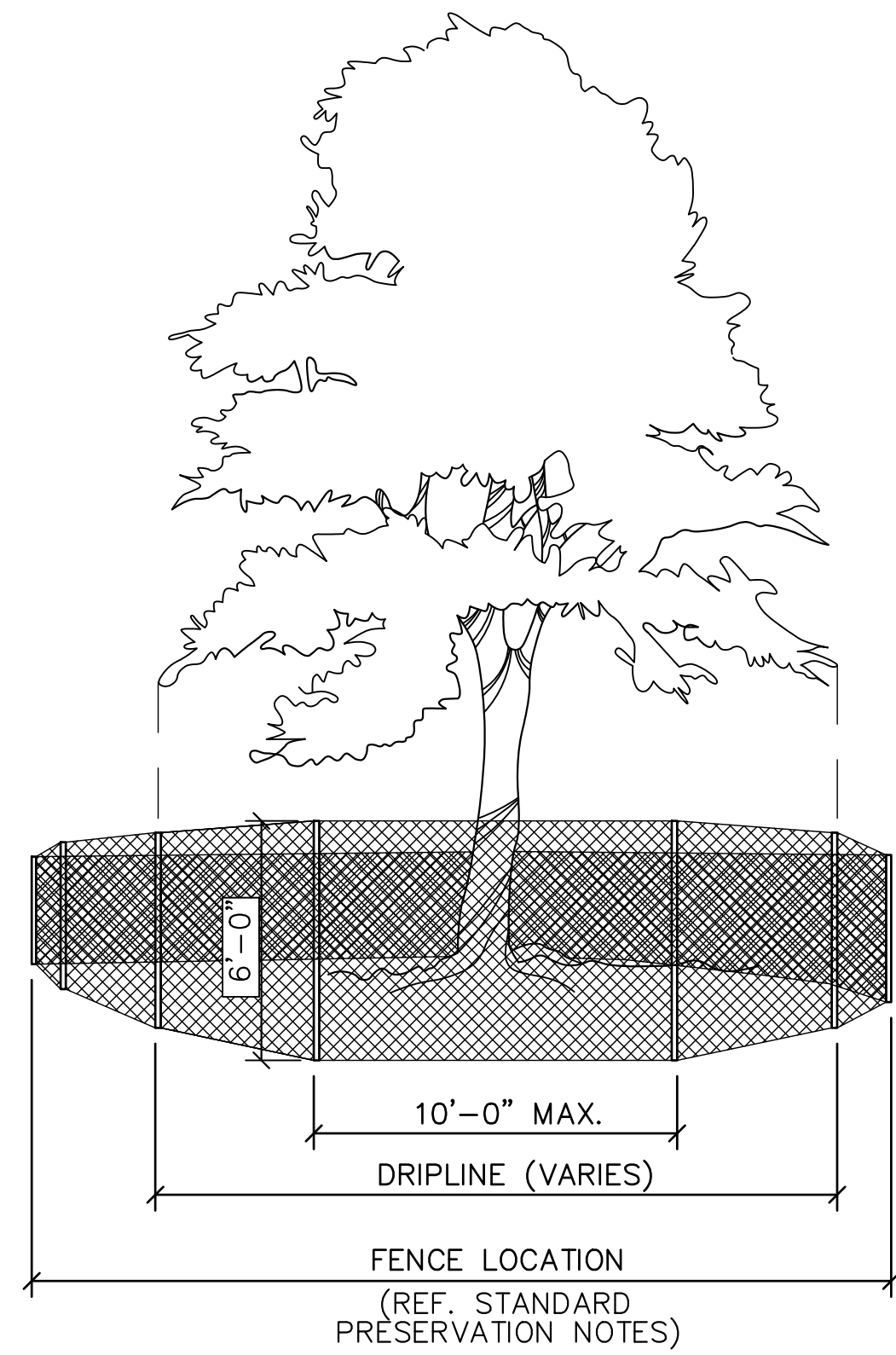
PORTER PARK POND REHABILITATION

STORM DRAIN DETAILS
 SHEET 2 OF 2

PROJECT NO.: 57185.001
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16
PAGE NUMBER 16 OF 19

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PLAN VIEW

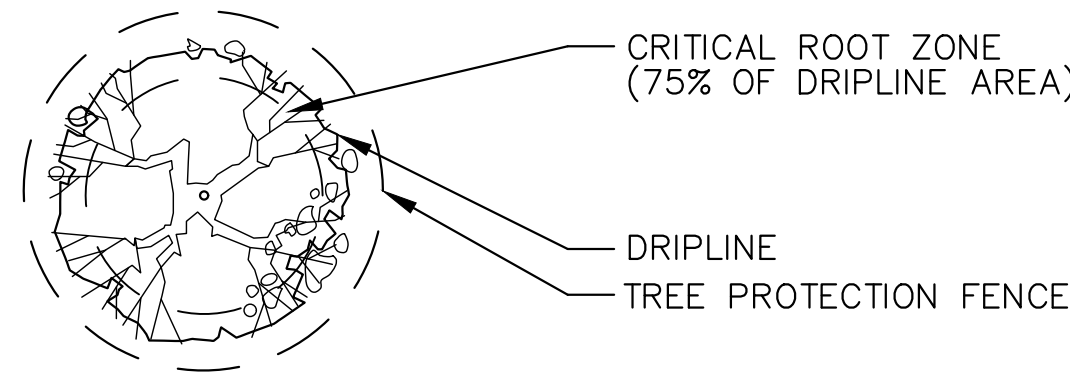


TREE PROTECTION DETAIL
N.T.S.

STANDARD PRESERVATION NOTES FOR TREE AND NATURAL AREA PROTECTION

1. All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing and other measures as needed which may include retaining walls, pruning of limbs, roots, etc.
2. Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project.
3. Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree drip lines.
4. Protective fences shall surround the trees or group of trees, and will be located no closer than the outermost limit of branches (drip line) plus an additional 2'-0" away from the limits of dripline. For natural areas, protective fences shall follow the Limit of Construction line, in order to prevent the following:
 - A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials;
 - B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Parks Department;
 - C. Wounds to exposed roots, trunk or limbs by mechanical equipment;
 - D. Other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.
5. Exceptions to installing fences at tree drip lines may be permitted in the following cases:
 - A. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed;
 - B. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately by hand prior to paving installation to minimized root damage);
 - C. Where trees are close to proposed buildings, erect the fence to allow root pruning in the work space between the fence and the building, prior to disturbance. The fence can be erected at the point of root pruning;
 - D. Where there are severe space constraints due to tract size, or other special requirements, contact an Arborist to discuss alternatives.

Special Note: Exceptions are permitted for areas outside the critical root zone. No disturbances are permitted within the critical root zone (75% of the dripline area). For the protection of natural areas, no exceptions to installing fences at the Limit of Construction line will be permitted, and no silting of stock piling of material or dirt is allowed around trees.
6. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft. in addition to the reduced fencing provided.
7. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.
8. Any roots exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
9. Trenching required for the installation of irrigation shall be placed as far from existing tree trunks as possible.
10. Limbing & pruning to provide clearance for structures, traffic and equipment shall take place before damage occurs.
11. All finished pruning shall be done according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees).



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PORTER PARK POND REHABILITATION

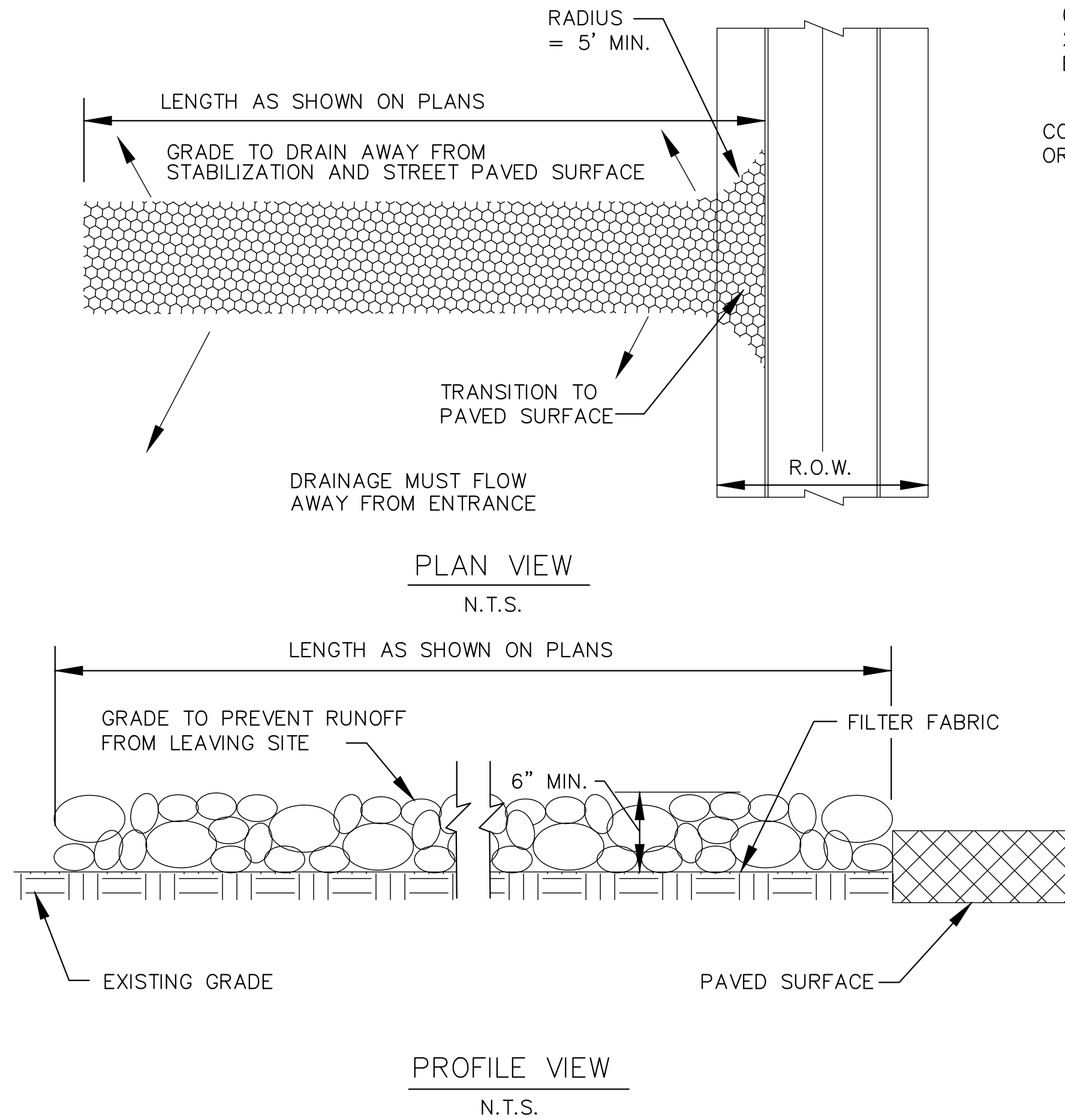
EROSION CONTROL DETAILS 1
SHEET 1 OF 2

PROJECT NO.: 57185.001
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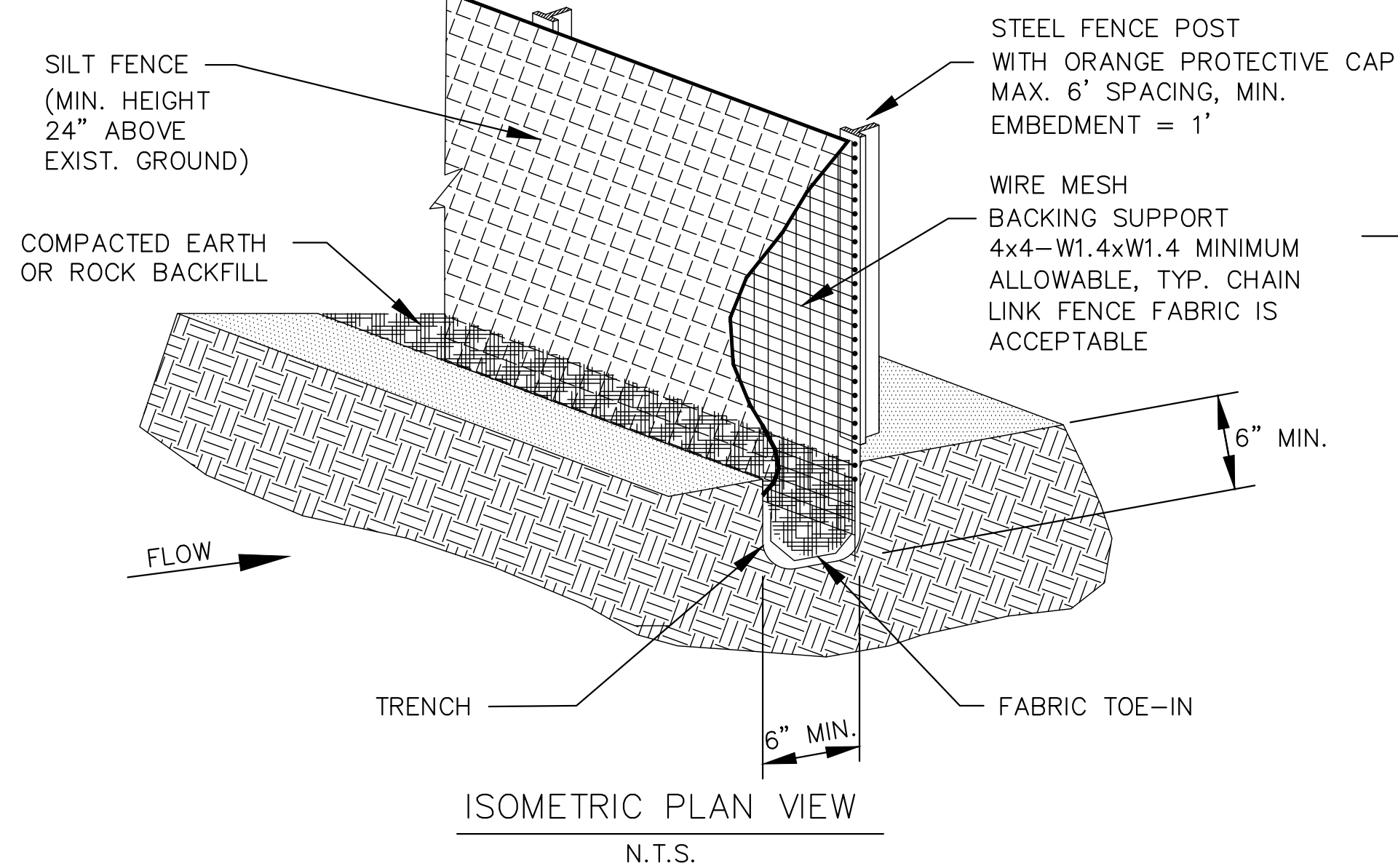
STABILIZED CONSTRUCTION ENTRANCE



STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
- LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
- THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
- THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

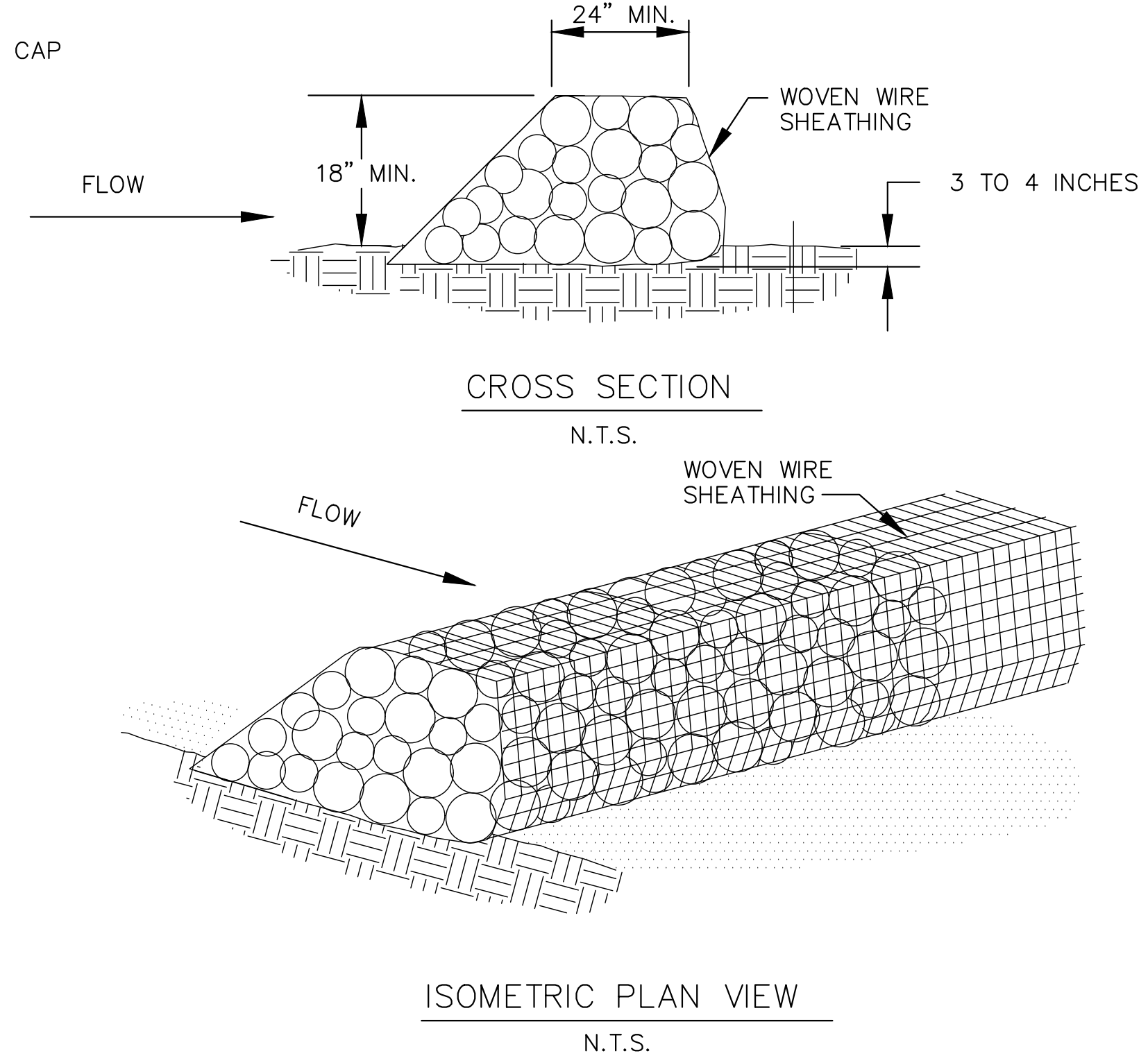
SILT FENCE



SILT FENCE GENERAL NOTES:

- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT. ALL POST SHALL HAVE AN ORANGE PROTECTIVE CAP TAPED (OR FASTENED ONTO) THE TOP.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

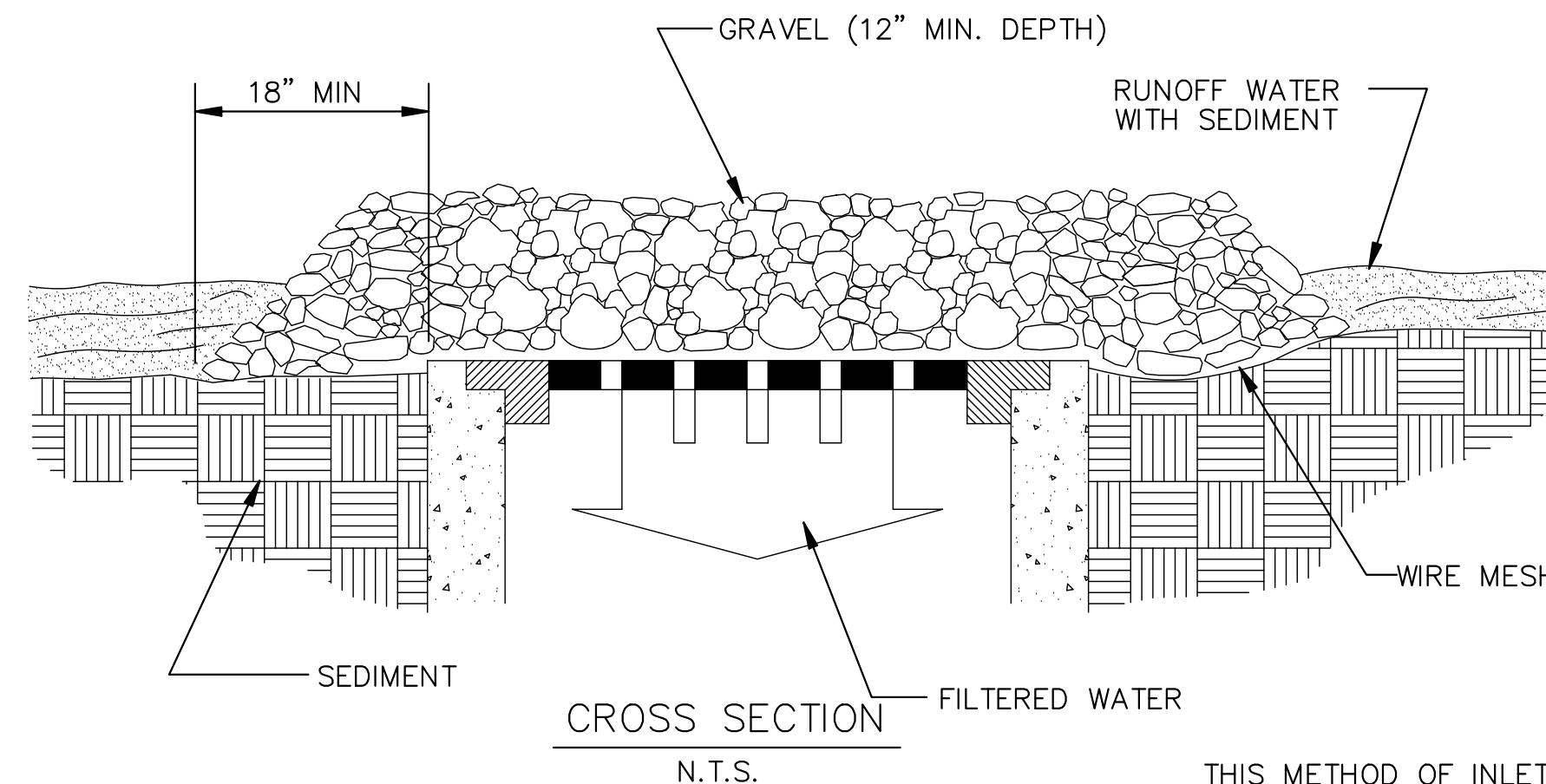
ROCK BERM



ROCK BERM GENERAL NOTES:

- USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS.
- THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP.
- THE ROCK BERM SHALL BE INSPECTED EVERY TWO WEEKS OR AFTER EACH" RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
- ROCK BERM SHOULD BE USED AS CHECK DAMS FOR CONCENTRATED FLOW AND ARE NOT INTENDED FOR USE IN PERIMETER PROTECTION.

INLET PROTECTION WIRE MESH AND GRAVEL



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATION FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE AND UNPROTECTED AREAS.

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SAMSON R. LOTIGO 149676
NAME PE LICENSE NO.
1/23/2025
DATE
TBPELS ENGINEERING FIRM #F-312 TX
FIRM / BUSINESS NO. STATE



PORTER PARK POND REHABILITATION

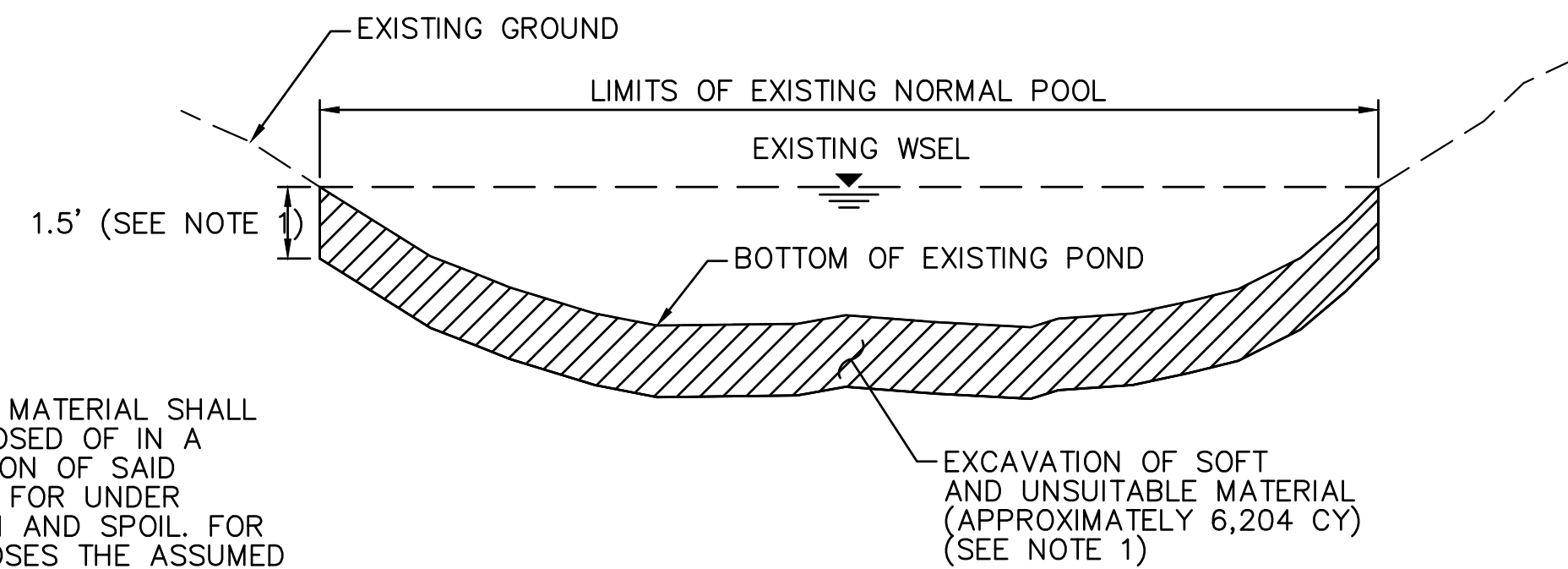
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SHEET 2 OF 2

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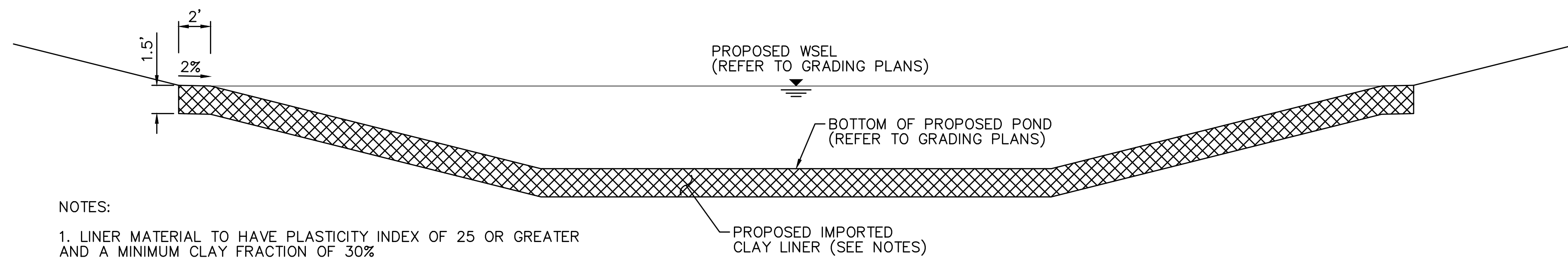


NOTES:

1. SOFT AND UNSUITABLE MATERIAL SHALL BE EXCAVATED AND DISPOSED OF IN A LEGAL MANNER. EXCAVATION OF SAID MATERIAL SHALL BE PAID FOR UNDER UNCLASSIFIED EXCAVATION AND SPOIL. FOR QUANTITY AND BID PURPOSES THE ASSUMED DEPTH IS 1.5- FEET, HOWEVER THIS MAY VARY BASED UPON CONDITIONS IN THE FIELD. IF UNSUITABLE MATERIAL IS PRESENT BELOW THE PROPOSED GRADE LINES SHOWN IN THE PLANS THEN THE CONTRACTOR SHALL EXCAVATE AND DIPOSED OF THE MATERIAL IN A LEGAL MANNER. NO EXTRA PAY WILL BE MADE FOR MATERIAL IN EXCESS OF 3- FEET AND THE MATERIAL SHALL NOT BE USED FOR GENERAL SITE EMBANKMENT.

POND EXCAVATION

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NOTES:

1. LINER MATERIAL TO HAVE PLASTICITY INDEX OF 25 OR GREATER AND A MINIMUM CLAY FRACTION OF 30%
2. LINER CONSTRUCTED IN 6" LIFTS, MOISTENED TO THEIR OPTIMUM MOISTURE CONTENT OR ABOVE AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR COMPACTION (ASTM D698).
3. CONTRACTOR SHALL ENSURE THAT NO DESICCATION IS PERMITTED DURING THE CONSTRUCTION OF THE LINER AND THAT THE COMPLETED LINER IS NOT ALLOWED TO DRY PRIOR TO RE-FILLING THE POND.
4. PREVIOUS LIFT SHOULD BE LIGHTLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
5. LINER MATERIAL SHALL BE IMPORTED.

POND LINER

SCALE: N.T.S.

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PORTER PARK POND REHABILITATION

MISCELLANEOUS DETAILS
SHEET 1 OF 1

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