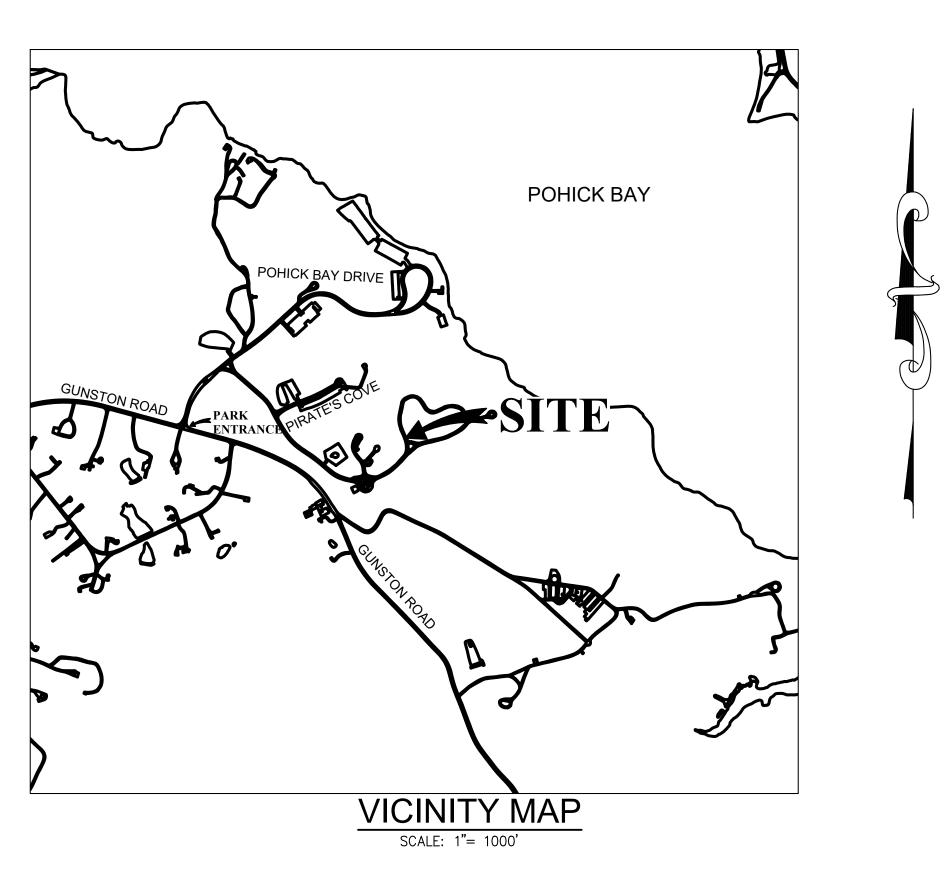
# CIVIL ENGINEERING PLAN POHICK BAY REGIONAL PARK CAMPGROUND WATERLINE IMPROVEMENTS

6501 POHICK BAY DR LORTON, VIRGINIA 22079



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# NOTES:

1. CONTRACTOR TO COORDINATE LOCATING OF EX. U.G. UTILITIES

2. CONTRACTOR IS RESPONSIBLE FOR MOBILIZATION AND PHASING OF PROJECT SUCH THAT NO MORE THAN 2,500 SF OR 250LF OF TRENCHING IS DISTURBED AT ANY POINT IN TIME. PREVIOUS PHASE MUST BE BACKFILLED AND STABILIZED PRIOR TO LAND DISTURBANCE IN SUBSEQUENT PHASE.

# ROJECT DESCRIPTION:

THIS PLAN INVOLVES THE REPLACEMENT OF PORTIONS OF THE EXISTING WATERLINE AND EXTENSION AND CONNECTION OF A NEW 3" HDPE WATERLINE WITH 1" SERVICE CONNECTIONS AND HYDRANTS AT CAMPSITES.

# DATUM NOTES

HORIZONTAL DATUM: THE SITE SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM OF NAD83 (2011) AS COMPUTED FROM A FIELD RUN BOUNDARY AND HORIZONTAL CONTROL SURVEY.

VERTICAL DATUM: THE SITE SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1929 PER GPS OBSERVATIONS AND A CORPSCON CONVERSION.

TOPOGRAPHY SURVEY IS PER FIELD SURVEY BY BOWMAN CONSULTING IN JANUARY 2024.

# TOPOGRAPHIC SURVEY CERTIFICATION

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, BRENT EVANS, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT ORIGINAL DATA WAS OBTAINED ON JANUARY 12, 2024; AND THAT THIS DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

# OWNER/DEVELOPER CIVIL ENGINEER

NORTHERN VIRGINIA REGIONAL PARK AUTHORITY 5400 OX ROAD, FAIRFAX STATION, VA 22039 CONTACT: TONY CANONICO BOWMAN 13461 SUNRISE VALLEY DRIVE SUITE 500 HERNDON, VIRGINIA 20171 CONTACT: ETHAN PACIFICO, P.E.



Suite 500
Herndon, VA 20171
Phone: (703) 464-1000
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bowman.com

NL PARK ROVEMENTS

K BAY REGIONAL FUND WATERLINE IMPROV

O JECT NO

PROJECT NO
COUNTY PROJECT NUMBER

PROJECT NUMBER

CALIFORNIA

ETHAN PACIFICO

Lic. No. 063882

08/14/24

PLAN STATUS
02/23/24 DRAFT SUBMISSIO
05/17/24 DRAFT SUBMISSIO
08/14/24 FINAL SUBMISSIO

DATE DESCRIPTION

EP KM M1

DESIGN | DRAWN | CHKD
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JOB No.

FILE No. 140356-01-001

SHEET 01 of 19

DATE: FEBRUARY, 2024

THESE GENERAL NOTES SHALL BE USED WHERE THEY ARE APPLICABLE TO THE PROJECT PLANS)

# CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THE CONSTRUCTION OF THE PROJECT.
- 2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, AND CONFIRMATION AND CONDITION OF EXISTING GROUND SURFACE AND THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUANTITY AND QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BROUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. THE INSTALLATION OF TRENCH BACKFILL AND THE RESTORATION OF DISTURBED AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE OWNER OR OWNER REPRESENTATIVES. ALL COMPACTION SHALL BE AT  $\pm 2\%$  OF THE OPTIMUM MOISTURE CONTENT.
- 4. ALL SUBGRADE, SUBBASE, BASE AND SHOULDER MATERIAL SHALL BE PLACED AND COMPACTED TO THE DENSITY SPECIFIED IN THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE OWNER OR OWNER REPRESENTATIVES. ALL COMPACTION SHALL BE AT  $\pm 2\%$  OF THE OPTIMUM MOISTURE CONTENT.
- 5. WHERE EXISTING NATURAL DRAINAGE DITCHES OR STREAM BANKS ARE DISTURBED DURING CONSTRUCTION THE CONTRACTOR SHALL RESTORE THIS AREA TO ORIGINAL ALIGNMENT, GRADE AND INVERT.
- 6. THE CONTRACTOR SHALL RESTORE ALL DRIVEWAYS/ROADWAYS DISTURBED DURING CONSTRUCTION. RESTORATION SHALL CONSIST OF THE FOLLOWING:
- GRAVEL DRIVEWAY/ROADWAYS: PROVIDE MINIMUM 6" COMPACTED VDOT 21A
- ASPHALT DRIVEWAY/ROADWAYS:
- 6" COMPACTED VDOT 21A SUBBASE
- 2" VDOT IM 19.0 BASE
- 1 ½" VDOT SM 9.5A SURFACE
- 7. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADS, TRAILS, BRIDGES, UTILITIES AND OTHER PARK FACILITIES WHICH OCCURS AS A RESULT OF THE PROJECT CONSTRUCTION.
- 8. ALL STREET CUT AND PATCH WORK IN PUBLIC RIGHT-OF-WAY REQUIRED FOR UTILITIES INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH COUNTY AND/OR PARK STANDARDS AND SPECIFICATIONS.
- 9. NO BLASTING WILL BE ALLOWED WITHIN THIS PROJECT.
- 10. THE APPROVAL OF THIS PLAN SHALL IN NO WAY GRANT PERMISSION BY THE OWNER FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.
- 11. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 12. ALL UTILITIES NOTED TO BE RELOCATED OR REMOVED SHALL BE AT THE CONTRACTORS EXPENSE, TO INCLUDE ALL POLES AND STRUCTURES AS REQUIRED. ALL POLES REQUIRED TO BE RELOCATED MUST BE
- MOVED PRIOR TO CONSTRUCTION. 13. THESE PLANS MAKE NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS AND THE PRESENCE
- OF SUBSURFACE WATER OR THE NEED FOR SUBSURFACE DRAINAGE FACILITIES. 14. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ALL NECESSARY INSPECTIONS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE CONSTRUCTION SITE AND COMPLYING WITH ALL OSHA REGULATIONS.
- 16. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 17. ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER.
- 18. THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE FROM UNAUTHORIZED ACCESS AT ALL TIMES DURING CONSTRUCTION.

# TRAFFIC MAINTENANCE

1. ALL TRAFFIC MAINTENANCE AS REQUIRED TO ALLOW CONTINUED OPERATIONS OF PARK FACILITIES AND PUBLIC ROADWAYS SHALL CONFORM WITH THE VIRGINIA WORK AREA PROTECTION MANUAL,

# **UTILITIES**

MISS UTILITY OF VIRGINIA PRIMARY UTILITY COMPANIES **EMERGENCY** AMERICAN TELEPHONE & TELEGRAPH CO. 1-800-241-3624 COLUMBIA GAS OF VIRGINIA 1-800-543-8911 - (703) 631-5363 (METRO) COLUMBIA GAS TRANSMISSION CORP 811 1-800-835-7191 (24 HRS) 1-800-926-2728 COLONIAL PIPELINE CO. 811 COX COMMUNICATIONS (703) 313-6527 OR (703) 313-6531 DOMINION VIRGINIA POWER (703) 591–2606 FAIRFAX COUNTY WATER AUTHORITY 811 (703) 698–5613 FAIRFAX CO. WASTEWATER COLLECTION DIVISION 811 (703) 323–1211 FAIRFAX CITY WATER SERVICE 811 (703) 385-7915 OR 385-7924 (24 HRS) FAIRFAX COUNTY PUBLIC SAFETY 811 (703) 248-5044 FALLS CHURCH PUBLIC UTILITIES / WATER 811 1-800-852-6700 MCI. INTERNATIONAL 811 1-800-624-9675 MCI. WORLD 811 METROPOLITAN FIBER SYSTEMS (703) 852-6700 (703) 335–0500 NORTHERN VIRGINIA ELEC. CO-OP 811 TRANSCO GAS PIPELINE CO. 811 1-800-440-8475 (24 HRS) TOWN OF HERNDON PUBLIC WORKS (703) 435-6860 STATION 185 (703) 368-3255 TOWN OF VIENNA WATER SERVICE (703) 255-6381 AFTER 5:00 PM., (703) 255-6385 1-800-521-0579 (24 HRS) SPRINT (GLOBAL ONE) 1-800-275-2355 - (703) 954-2222 (24 HRS) VERIZON (BELL ATLANTIC) 1-800-745-1944 (EMERGENCY REPAIR) VERIZON SOUTH (703) 750-1000 (GAS LEAK (703) 750-4831) WASHINGTON GAS

FIBER OPTIC UTILITY COMPANES

FIBER OPTIC COMPANIES	MISS UTILITY	EMERGENCY	
Abovenet Communications	811	1-888-636-2778	
Comcast Communications in Alexandria	811		
Cavalier Telephone Company	811	1-888-662-5700	
Comcast Communications in Reston	811	(after hours 703-841-7700)	
Cox Communications Fiber Division	811	(703) 313-6527 or (703) 313-6531	
Dominion Telecom	811	1-888-854-2138	
Level 3 Communications, LLC	811	1-887-366-8344	
Lightwave Spectrum, Inc.	811	1-800-388-6460	
Looking Glass Network, Inc.	811	1-866-342-7288	
MCI	811	(703) 391-5787; (Cell – 703-598-1721)	
Verizon South	811	1-800-745-1944 (Emergency Repair)	
Qwest Communications Corporation	811	1-800-283-4237	
Sprint	811	1-800-521-0579	
Star Power Communications	811		
TCG/AT&T	811	1-888-634-1840 (Pager)	
WilTel Communications	811	1-888-265-2283	
XO Communications	811		
YIPES Communication, Inc.	811		
Xspedius	811	1-800-627-0181	

# EXISTING UTILITIES

- 1. THE UTILITY INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM AVAILABLE RECORD AND IN SOME CASES INFORMATION PROVIDED BY AN UNDERGROUND UTILITY DESIGNATING AND LOCATING COMPANY. THE NOVA PARK AUTHORITY DOES NOT GUARANTEE THAT THE UTILITY INFORMATION SHOWN ON THE PLANS IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- 2. ALL EXISTING UNDERGROUND UTILITIES IN THE VICINITY OF PROPOSED IMPROVEMENTS/CONSTRUCTION SHALL BE MARKED IN THE FIELD BY MISS UTILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE FIELD MARKING OF UTILITIES WITH "MISS UTILITY".
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS INDICATED ON THE CONSTRUCTION PLANS.
- 4. CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED CONSTRUCTION OR EXCAVATION AT LEAST 3 WORKING DAYS, BUT NOT MORE THAN 10 WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION IN ACCORDANCE WITH CHAPTER 63 OF FAIRFAX COUNTY CODE. NAMES AND TELEPHONE NUMBERS OF THE VARIOUS OPERATORS OF UNDERGROUND UTILITY LINES IN FAIRFAX COUNTY APPEAR ABOVE. THESE NUMBERS WILL ALSO BE USED TO SERVE EMERGENCY CONDITION NOTICE AS REQUIRED BY CHAPTER 63 OF THE FAIRFAX COUNTY CODE.
- 5. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 811, UTILITY COMPANY REPRESENTATIVES, PERFORM TEST PITS, REVIEW CURRENT TEST PIT DATA, AND WHATEVER OTHER OPERATIONS AVAILABLE TO INSURE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES IN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE NOVA PARKS OF ANY POTENTIAL CONFLICTS PRIOR TO COMMENCING CONSTRUCTION.

MISS UTILITY

CALL "MISS UTILITY OF VIRGINIA" AT 811, 48 HOURS PRIOR TO THE START OF WORK, THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FAIRFAX COUNTY CODES AND REGULATIONS.

> CAUTION!! THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE, THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION

# CONTRACTOR CONSTRUCTION NOTES:

- 1. OVERHEAD WIRES CONTRACTOR SHALL AVOID CONTACT AND DISRUPTION OF OVERHEAD LINES, AND MAINTAIN HORIZONTAL/VERTICAL CLEARANCE DURING CONSTRUCTION AS REQUIRED BY DOMINION ENERGY, VERIZON, ETC..
- 2. UNDERGROUND UTILITIES CONTRACTOR SHALL ENSURE THAT THERE IS NO DISTURBANCE OR DISRUPTION TO THE EXISTING UNDERGROUND SANITARY SEWER LINES BY TREE REMOVAL OPERATIONS WITHIN THE WORK ZONE AND VICINITY.

# WATER SUPPLY NOTES

PIPING MATERIAL

MAIN:

3" HDPE PIPE CAMPSITE SUPPLY LINES: 1" HDPE PIPE

FITTINGS: HDPE PIPE IN ACCORDANCE WITH AWWA C901. SHALL CONFORM TO PIPE MATERIAL STANDARDS TRACER WIRE:

COPPERHEAD SOLOSHOT EXTRA HIGH STRENGTH CCS (#14 AWG. TO BE INSTALLED WITH PIPING DURING BORING.

VALVE: **AVK SERIES 66** 

MODEL S4H BACK FLOW PROTECTED. AUTOMATIC DRAINING, FREEZELESS. SELF CLOSING **HYDRANTS**: SANITARY YARD HYDRANT BY WOODFORD MANUFACTURING COMPANY (OR APPROVED EQUAL)

PROPOSED WATERLINE AND HYDRANT LOCATION SHOWN ARE APPROXIMATE. ACTUAL ALIGNMENT SHALL BE FIELD ADJUSTED TO AVOID AS MANY TREE ROOTS AS FEASIBLE AND MAINTAIN REQUIRED CLEARANCES FROM OTHER UTILITIES. AFTER THE WATERLINE AND HYDRANTS HAVE BEEN STAKED, AND PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL WALK THE SITE WITH THE OWNER AND MAKE ADJUSTMENTS TO WATERLINE ALIGNMENT OR HYDRANT LOCATIONS TO AVOID IMPACTS TO EXISTING MATURE TREES TO THE GREATEST EXTENT PRACTICAL.

- THE MAIN 3" HDPE LINE SHALL BE DIRECTIONALLY BORED TO MINIMIZE ENVIRONMENTAL IMPACTS. EACH HYDRANT SERVICE CONNECTION WILL REQUIRE TRENCHING FOR THE 1" HDPE, WHICH WILL ALSO SERVE AS THE RECEIVING PIT FOR THE BORING EQUIPMENT.
- THE AREA SURROUNDING THE HYDRANTS SHALL BE GRADED TO FLOW AWAY FROM THE HYDRANTS TO AVOID STANDING WATER AND CREATION OF MUDDY CONDITIONS.
- THE CONNECTION OF WATER PIPES TO INDIVIDUAL CAMP SITES SHALL BE INSTALLED SO THAT IT WILL NOT BE DAMAGED BY THE PARKING OF CAMPING VEHICLES, SOME CAMPSITES WILL REQUIRE BOLLARDS TO PROTECT THE HYDRANTS, AS DIRECTED BY OWNER IN THE FIELD.
- MINIMUM HORIZONTAL CLEARANCE FROM SEWER CONNECTIONS AND UNDERGROUND ELECTRIC LINES IS 5 FEET
- NEW WATER MAINS MUST BE DISINFECTED IN ACCORDANCE WITH SECTION 12VAC5-590-1210 OF THE VIRGINIA WATERWORKS REGULATIONS.
- FOLLOWING DISINFECTION, WATERLINES MUST BE TESTED FOR BACTERIOLOGICAL QUALITY IN ACCORDANCE WITH SECTION 12VAC5-590-1000 OF THE VIRGINIA WATERWORKS REGULATIONS.
- CONTRACTOR TO PERFORM TEST PITS IN ORDER TO LOCATE ALL EXISTING UTILITIES BOTH HORIZONTAL AND VERTICAL. IN ORDER TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF A GIVEN UTILITY AND TO ASSIST THE CONTRACTOR AND/OR OWNER IN DETERMINING AREAS OF SPECIAL CONCERN, LOCATIONS WHERE TEST PITS ARE DESIGNATED SHOULD BE EXCAVATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES THAT OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. THESE INDICATIONS ARE NOT INTENDED TO BE ALL INCLUSIVE AND WILL NOT RELIEVE THE CONTRACTOR AND/OR OWNER OF THE RESPONSIBILITY OF DIGGING ADDITIONAL TEST PITS, AS MIGHT BE REQUIRED BY ACTUAL SITE CONDITIONS. ANY DISCREPANCIES FOUND BETWEEN ACTUAL AND ASSUMED CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND COORDINATING ALL TEST PITS PRIOR TO CONSTRUCTION. NOTED THAT MISS UTILITY MAY NOT RESPOND TO REQUESTS AND/OR PROVIDE LOCATIONS/MARKINGS ON THIS PROPERTY. CONTRACTOR MAY NEED TO ENGAGE PRIVATE UTILITY LOCATING SERVICE - AT CONTRACTORS EXPENSE.

# SURVEY NOTES

- 1. THE PROPERTY IS CURRENTLY IN THE NAME OF NORTHERN VIRGINIA REGIONAL PARK AUTHORITY, AND DESIGNATED AS FAIRFAX COUNTY VIRGINIA MAP NUMBER 1144-01-0018
- 2. THE PROPERTY AS SHOWN HEREON IS SUBJECT TO ALL COVENANTS AND RESTRICTIONS OF RECORD AND THOSE RECORDED HEREWITH.
- 3. THE PROPERTY SHOWN HEREON LIES IN ZONE X (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FEMA FLOOD INSURANCE RATE MAPS FOR FAIRFAX COUNTY, VIRGINIA, COMMUNITY -PANEL NUMBER 51059C0395E, EFFECTIVE DATE SEPTEMBER 17, 2010.
- 4. APPROXIMATE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN PER PRIVATE UTILITY MARK OUT PERFORMED BY ARMOUR UTILITY LOCATING ON JANUARY 19, 2024 AND FIELD LOCATED WITH CONVENTIONAL FIELD SURVEY METHODS UNLESS OTHERWISE NOTED.
- 5. HORIZONTAL DATUM IS REFERENCED TO VIRGINIA STATE PLANE NAD83 (2011). VERTICAL DATUM IS REFERENCED TO NGVD29 PER GPS OBSERVATIONS AND A CORPSCON CONVERSION.

# RENCHMARKS

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NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BENCHMARK #1	6929420	11863158	134.0	IRON ROD SET
BENCHMARK #2	6929568	11863437	125.1	IRON ROD SET
BENCHMARK #3	6929817	11863401	118.2	IRON ROD SET
BENCHMARK #4	6929837	11863536	123.2	IRON ROD SET
BENCHMARK #5	6930033	11863444	122.3	IRON ROD SET
BENCHMARK #6	6930300	11863605	121.3	IRON ROD SET
BENCHMARK #7	6930100	11863838	119.4	IRON ROD SET
BENCHMARK #8	6930195	11864049	119.0	IRON ROD SET

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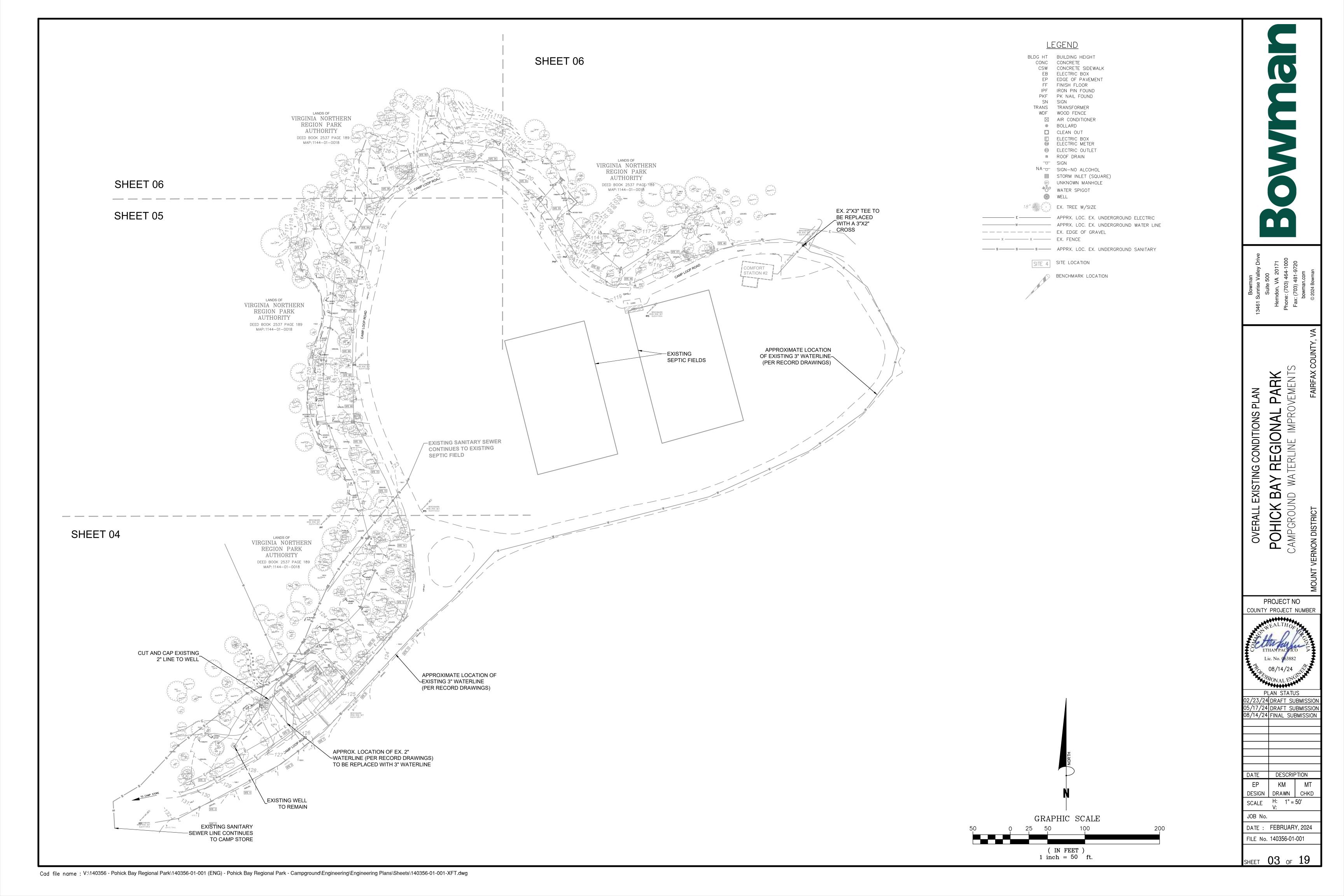
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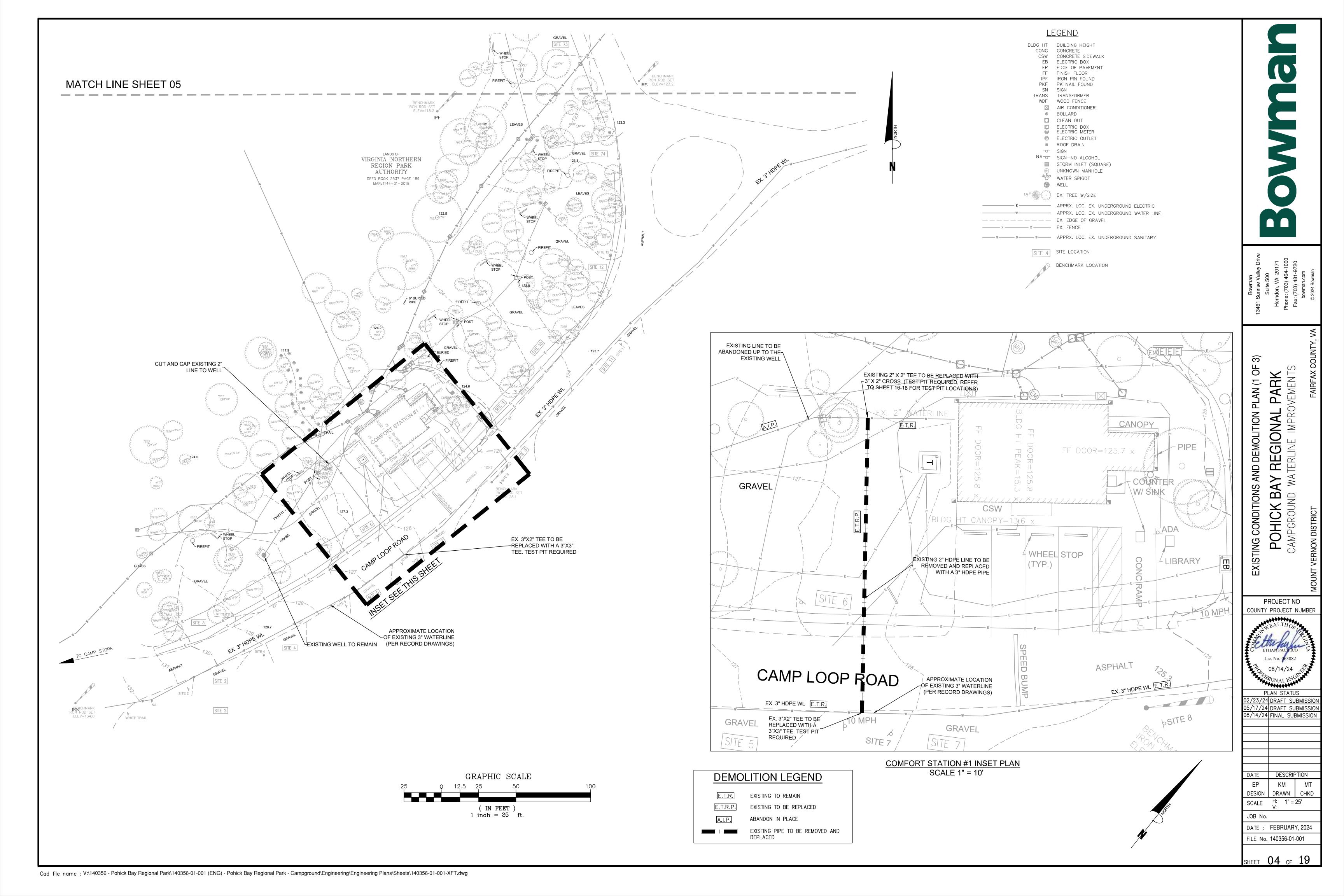
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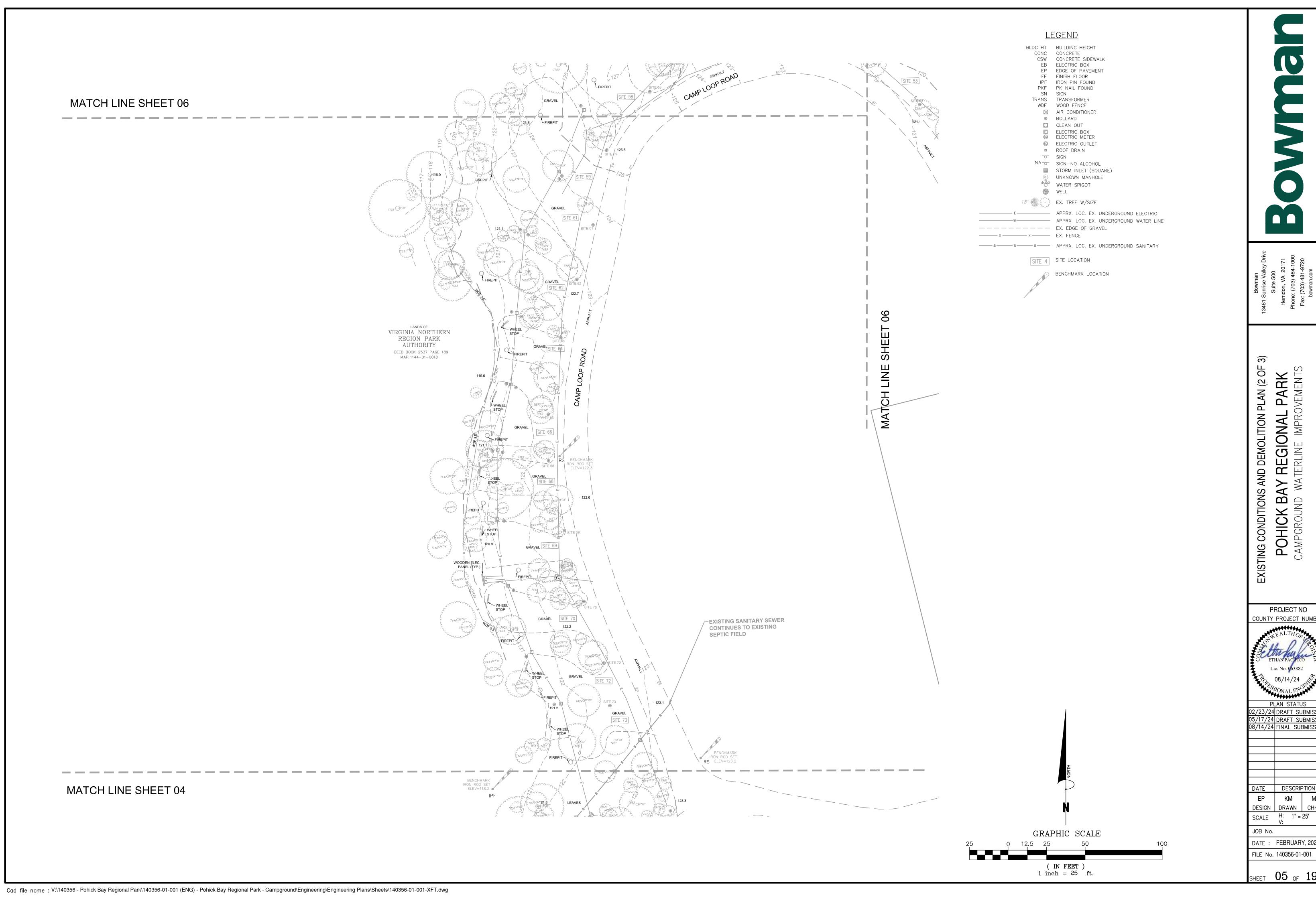
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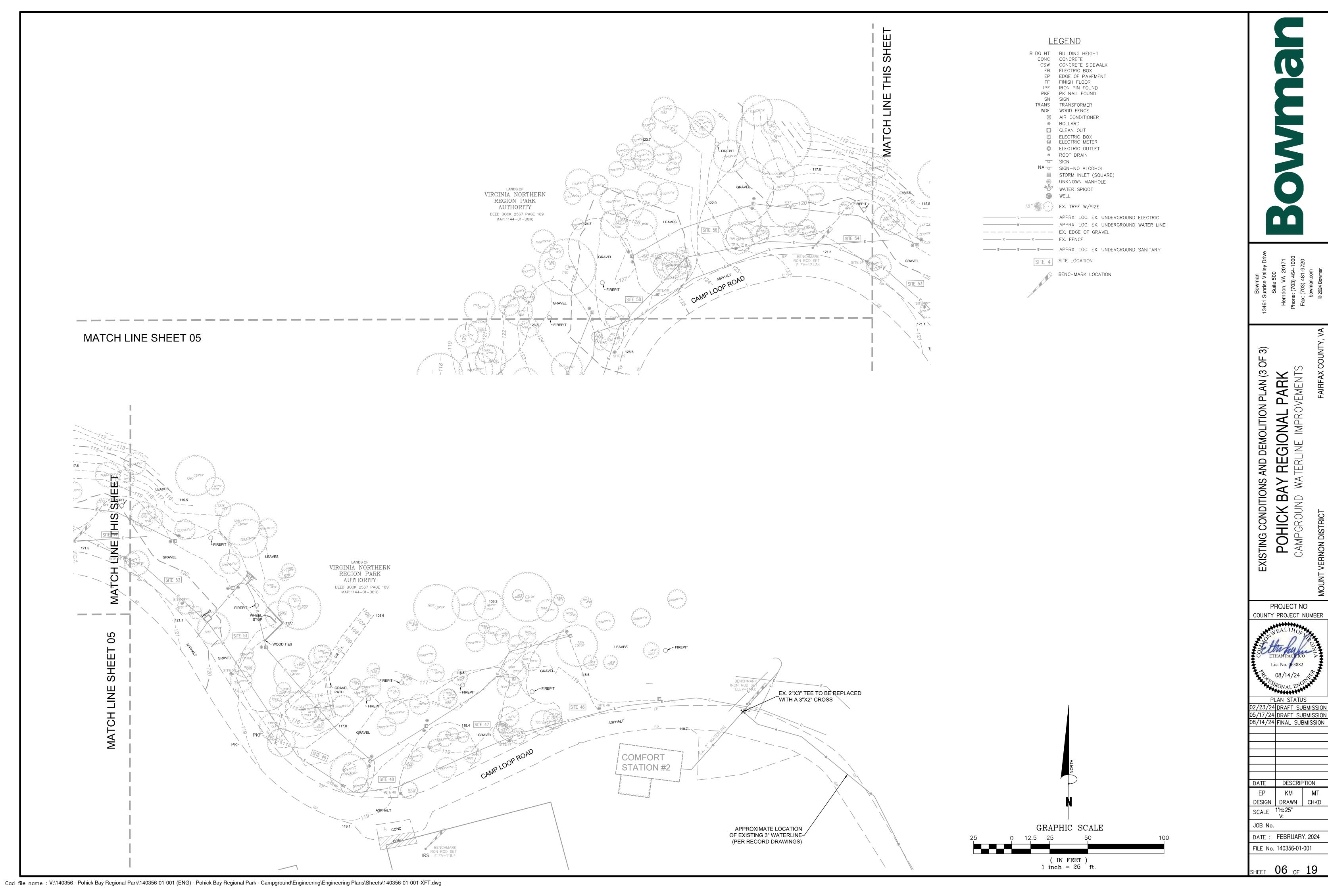
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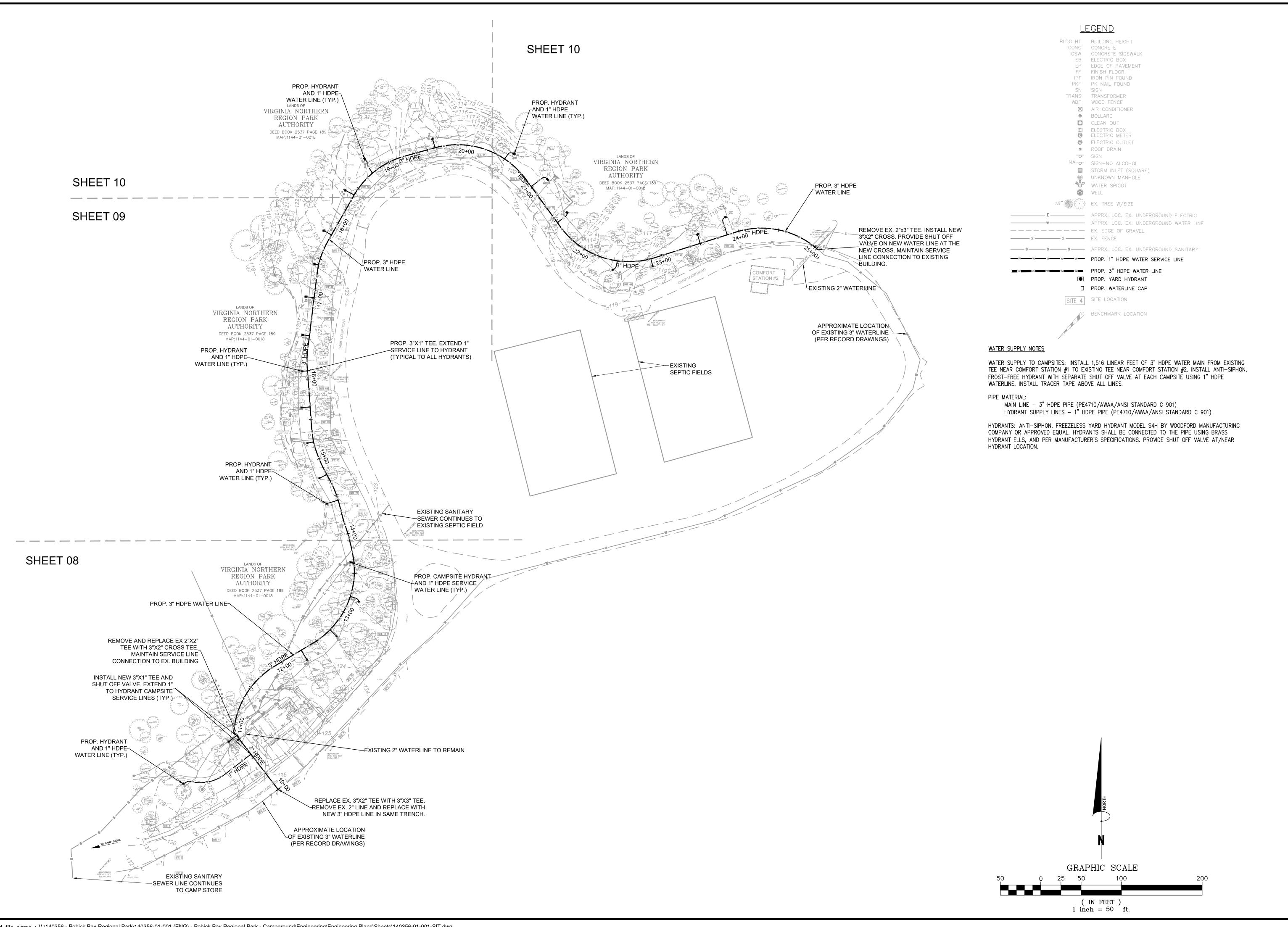
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GIONAL POHICK BACAMPGROUND

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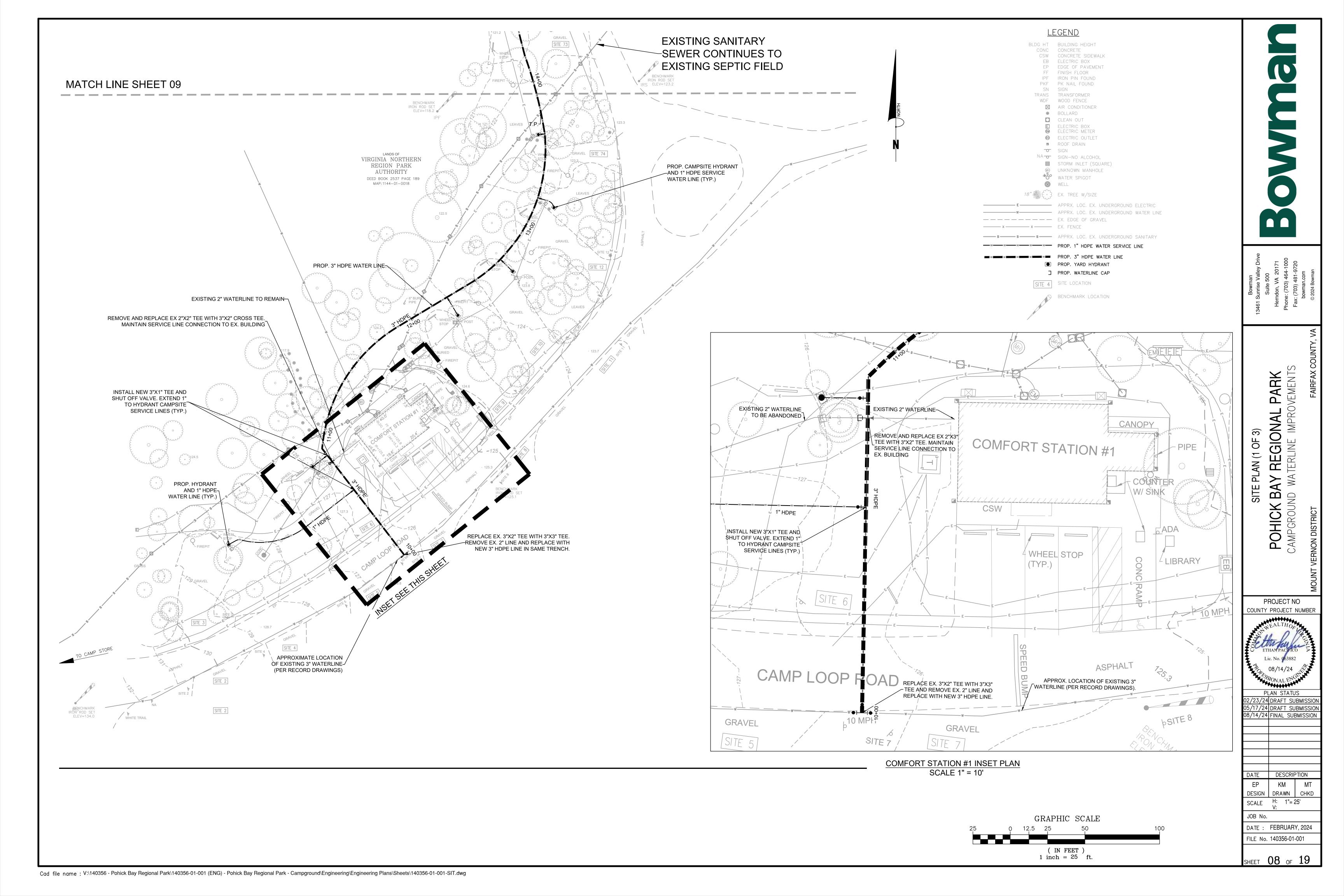
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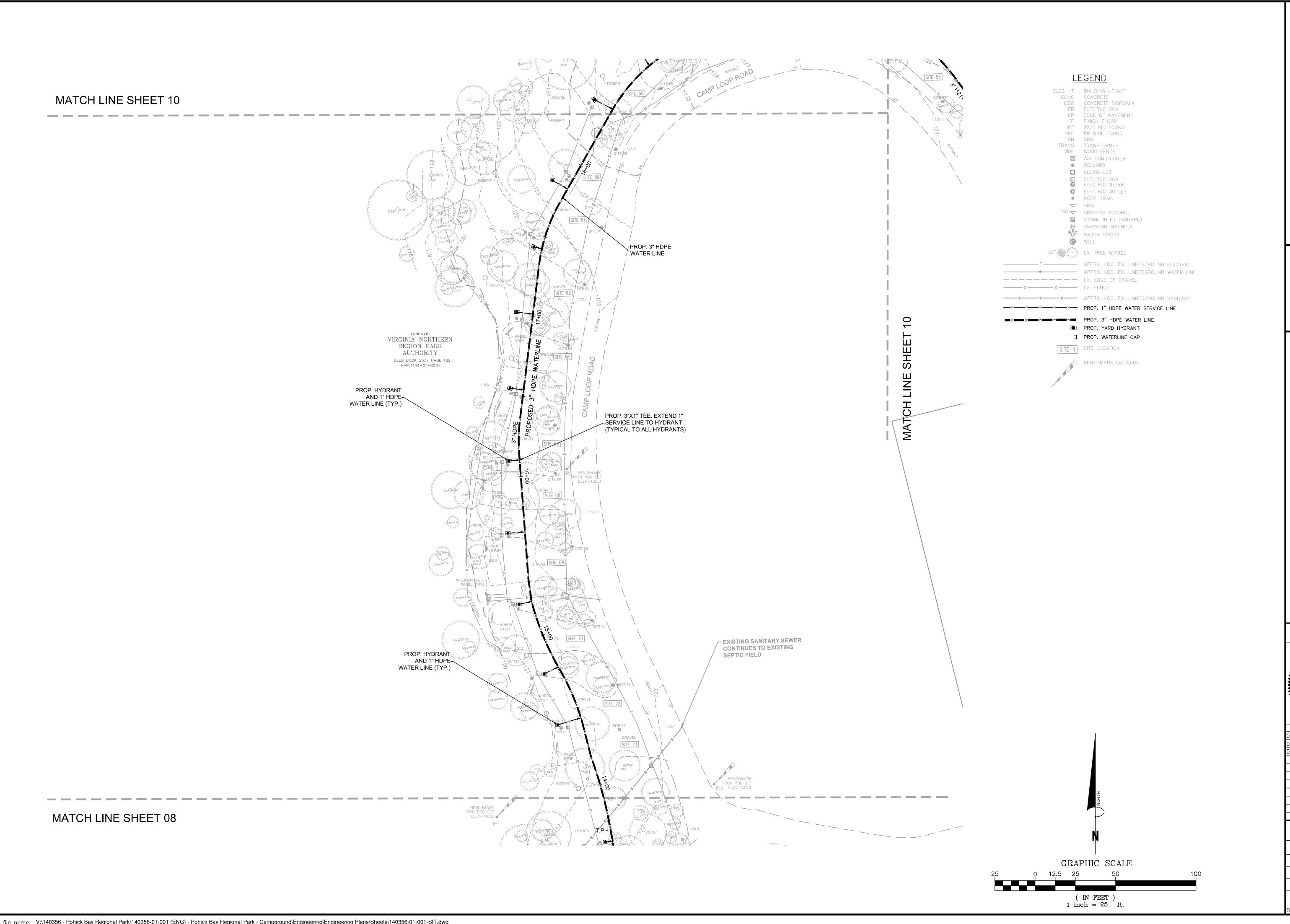
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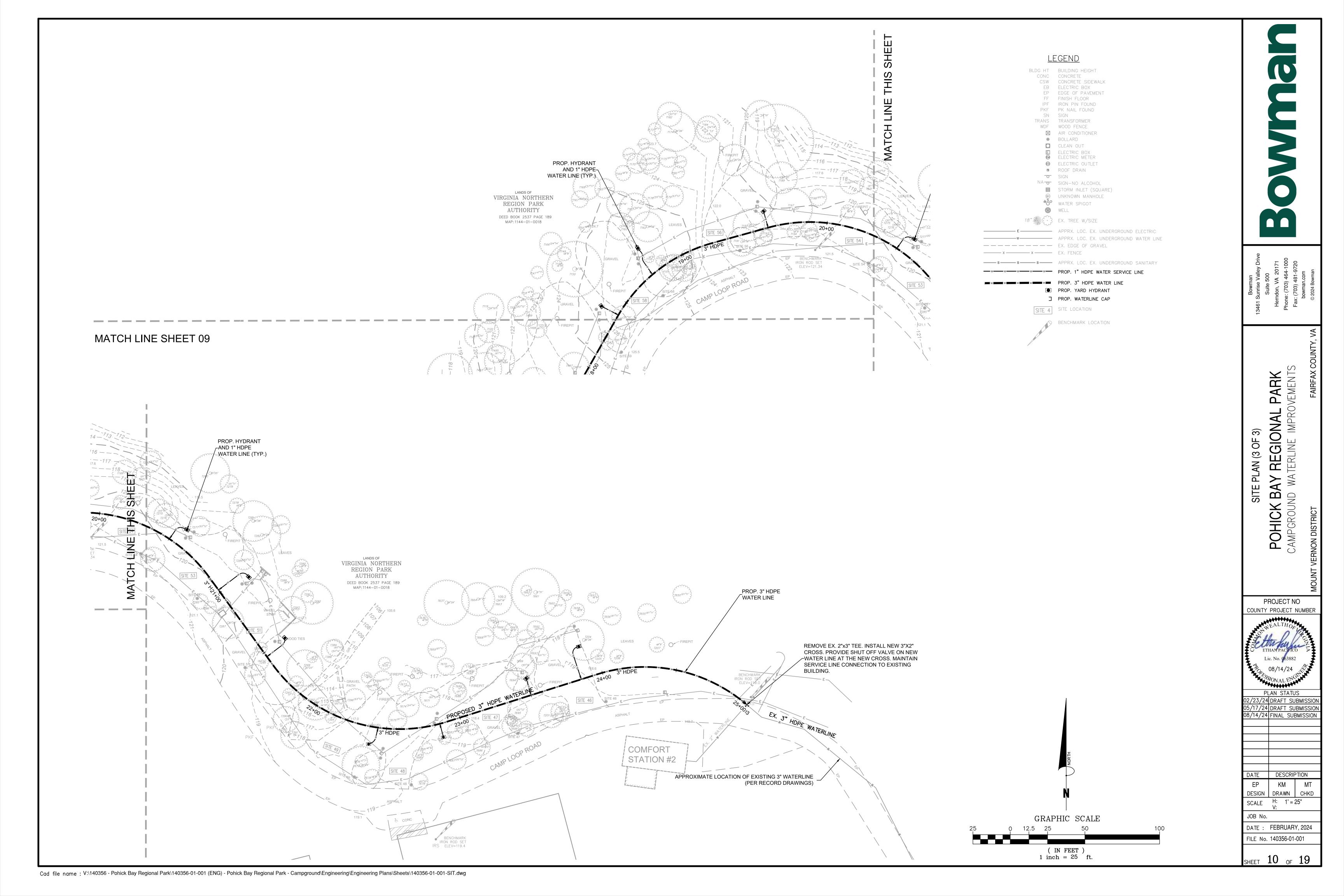
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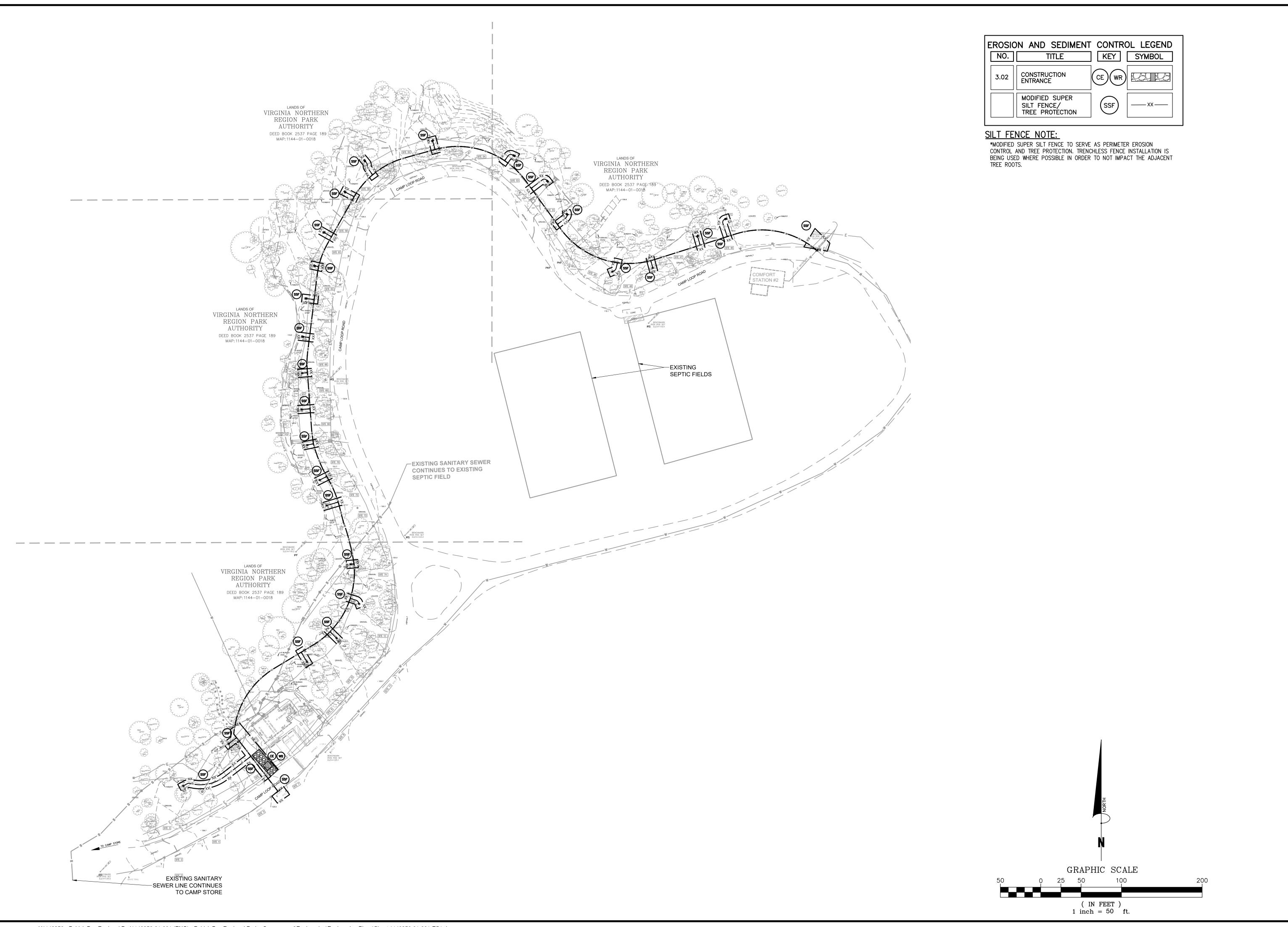
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REGIONAL POHICK CAMPGROUN

OVERALL EROSION AND SEDIMENT CONTROL PLAN

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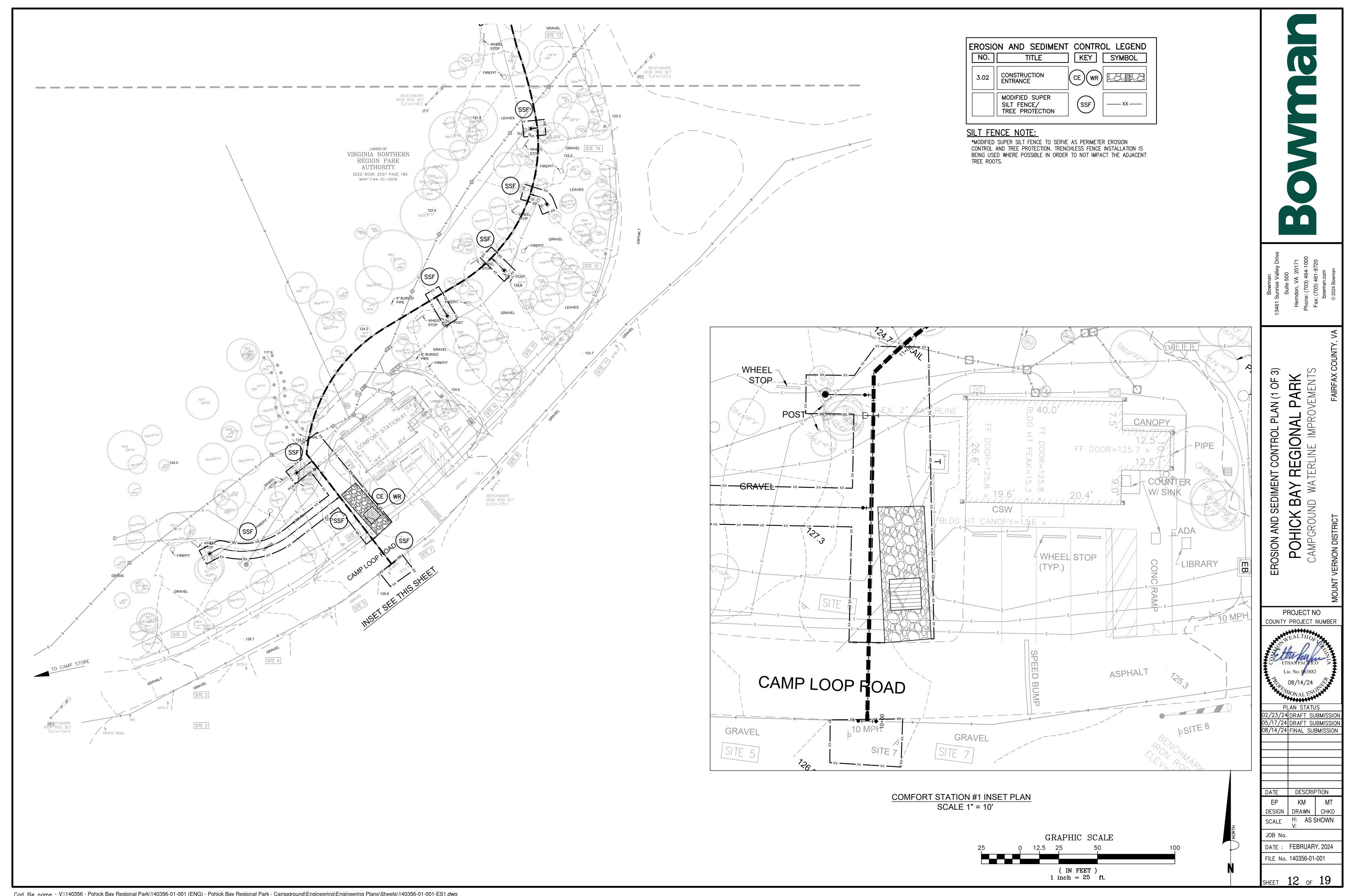
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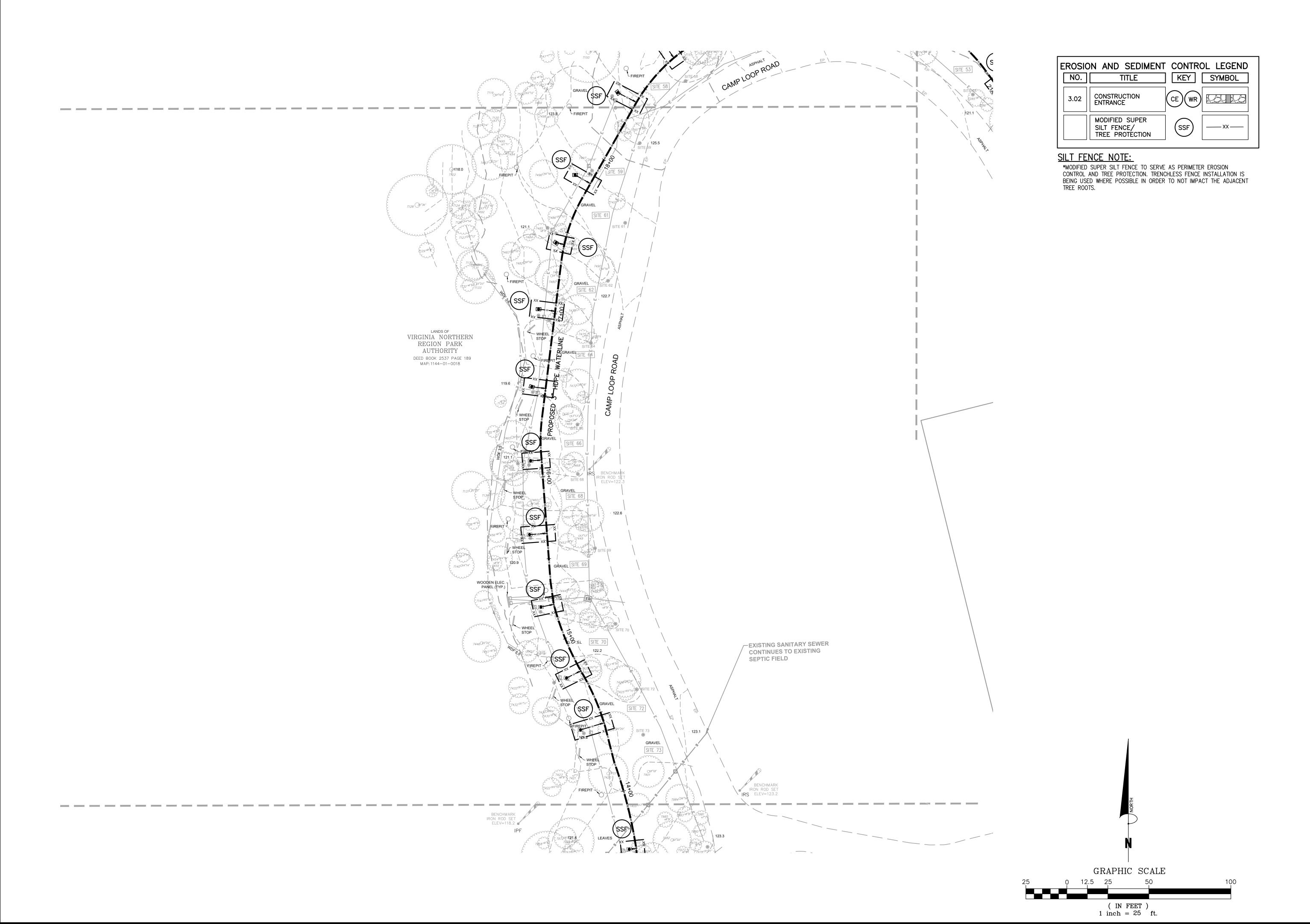
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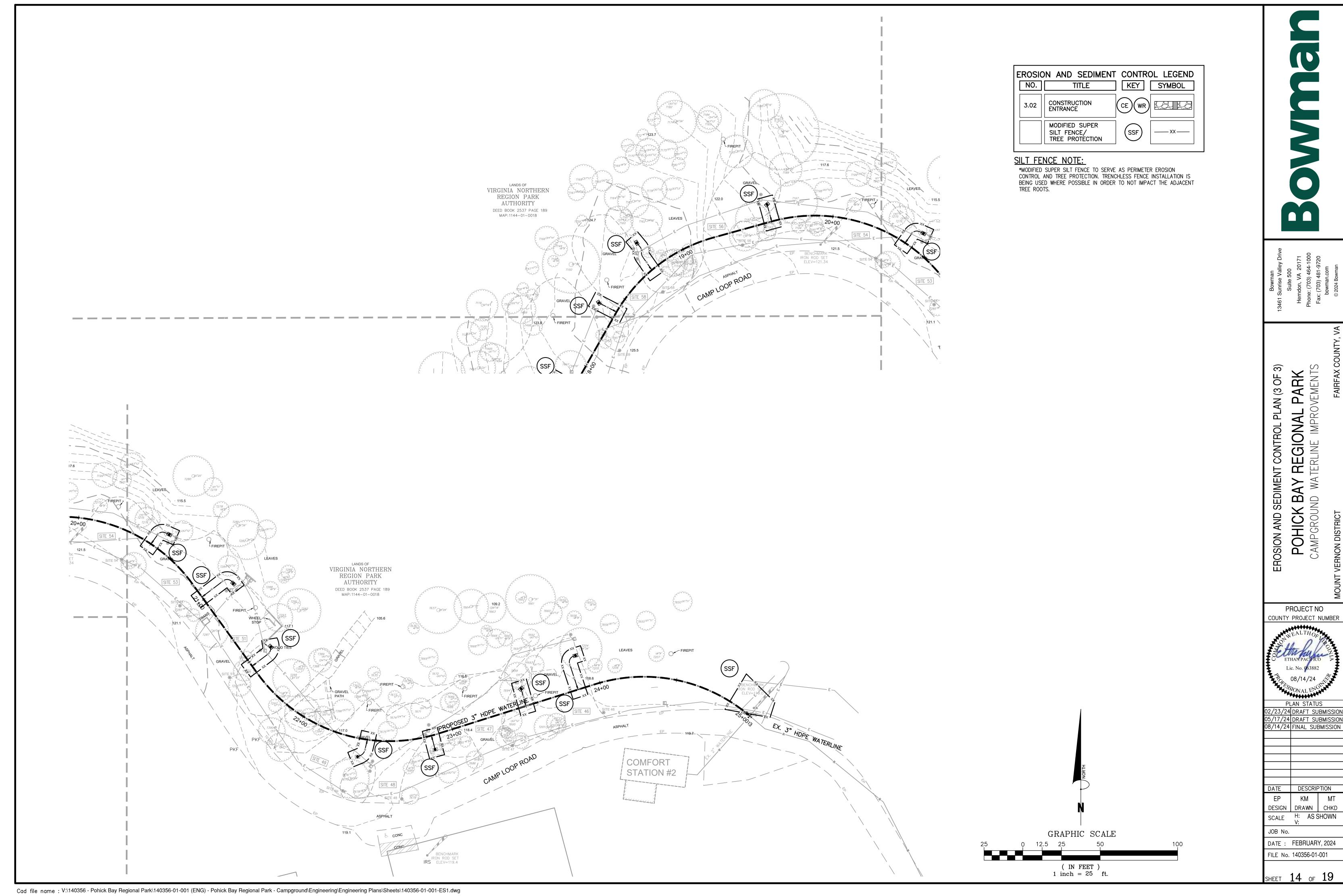
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# LAND CONSERVATION NOTES

- MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT FEDERAL, STATE AND LOCAL REGULATIONS. THE INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND/OR THE APPROVAL OF THE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY THE COUNTY OF FAIRFAX.
- 2. ALL AREAS, ON OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS SEED MIXTURE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL SLOPES 2:1 AND GREATER SHALL BE SODDED AND STAKED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE. STOCKPILES SHALL ALSO BE APPROVED BY PARK AUTHORITY OR ENGINEER OF RECORD.
- 5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT. IN THE OPINION OF THE LOCAL PROGRAM ADMINISTRATOR OR HIS DESIGNATED AGENT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- 6. SEDIMENT BASINS AND TRAPS. PERIMETER DIKES. SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.
- 9. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- 10. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN
- 11. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- 12. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- 13. BEFORE NEWLY CONSTRUCTED STORM WATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- 14. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- 15. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- 16. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE ADHERED TO.
- 17. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN A WATERCOURSE IS COMPLETED.
- 18. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
- 19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- 20. REFER TO THIS SHEET FOR EROSION & SEDIMENT CONTROL NARRATIVE.
- 21. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE REQUIREMENTS, STANDARDS AND SPECIFICATIONS:
- a. NO MORE THAN 250 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. b. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. d. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED
- IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA
- EROSION AND SEDIMENT CONTROL REGULATIONS AND REQUIREMENTS. f. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN HEREON THAT ARE DEEMED NECESSARY BY THE APPROVING AUTHORITY AND/OR THE SITE INSPECTOR.
- 23. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES DAILY, ANY DAMAGED CONTROLS SHALL BE REPAIRED OR REPLACED BY THE CLOSE OF EACH WORKING DAY.

# **EROSION & SEDIMENT CONTROL NARRATIVE:**

### PROJECT DESCRIPTION

THIS SITE, LOCATED IN FAIRFAX COUNTY IS PROPOSED TO EXTEND THE EXISTING 3" HDPE WATERLINE AROUND THE CAMP ROAD TO PROVIDE SERVICE TO THE CAMPSITES. IMPROVEMENTS CONSIST OF THE ADDITION OF NEW 3" HDPE WATERLINE, 1" SERVICE LATERALS AND ASSOCIATED APPURTENANCES AND YARD HYDRANTS AT EACH CAMPSITE. THE MAJORITY OF THE CONSTRUCTION SHALL BE DIRECTIONALLY BORED SO AS TO LIMIT THE DISTURBED AREA. THE DISTURBED AREA IS NOT TO EXCEED 2,500 SF AT ANY ONE TIME. **EXISTING SITE CONDITIONS** 

THE EXISTING TOPOGRAPHY CONSISTS OF SLOPES RANGING FROM 3:1 TO 20:1. THE MAJORITY OF THE SITE IS WOODED. ADJACENT PROPERTY

THE PARK IS BOUNDED ON THE NORTH BY THE POHICK BAY WATER PARK, WEST BY ADDITIONAL CAMPSITES AND PARK OFFICE, EAST BY POHICK BAY, AND FORESTED LAND TO THE SOUTH. OFF-SITE AREAS

THERE ARE NO OFFSITE AREAS THAT WILL BE NEGATIVELY IMPACTED BY THIS DEVELOPMENT. APPROVED EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN SPECIFIED AT THE PERIPHERAL BOUNDARIES OF THE PROPOSED LIMITS OF DISTURBANCE.

### (SEE SOILS MAP, LOCATED ON THIS SHEET)

### CRITICAL EROSION AREAS

THERE ARE NO CRITICAL AREAS IDENTIFIED ON SITE WITHIN THE LIMITS OF DISTURBANCE

### EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. STRUCTURAL PRACTICES

# 1. TEMPORARY CONSTRUCTION ENTRANCE - 3.02

CONSTRUCTION ENTRANCE IS PROVIDED OFF OF THE CAMP LOOP ROAD TO THE IMPROVEMENTS AREA. DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE LEAVING THE IMPROVED AREA. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT THERE IS AN ADEQUATE WATER SOURCE TO PERFORM SUCH WASHING

# 2. SUPER SILT FENCE/TREE PROTECTION BARRIER-3.05

SUPER SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE GRADING AND PHASE I EROSION AND SEDIMENT CONTROL PLAN. THE SUPER SILT FENCE WILL ALSO SERVE AS TREE PROTECTION DEVICE FOR THESE AREAS AS SHOWN ON THE PLAN. (SEE SHEET 12)

### 3. STABILIZATION MEASURES

STABILIZE AREAS WHICH ARE TO REMAIN UNWORKED SHALL BE VEGETATED AS EARLY AS POSSIBLE. AREAS BROUGHT TO FINISHED GRADE MUST BE SEEDED WITHIN 7 DAYS. LIKEWISE, AREAS THAT WILL NOT BE WORKED LONGER THAN 30 DAYS MUST ALSO BE SEEDED WITHIN 7 DAYS PRIOR TO END OF WORK.

# **VEGETATIVE PRACTICES**

1. TEMPORARY SEEDING - 3.31 ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME, SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SEE THIS SHEET FOR SEEDING NOTES. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS.

### MANAGEMENT STRATEGIES

- 1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 2. SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY
- 3. TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
- 4. AREAS, WHICH ARE NOT TO BE DISTURBED, WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.
- 5. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- 6. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED. PERMANENT STABILIZATION 3.32
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING. SEEDING SHALL BE PREFORMED AS OUTLINED IN THE SEEDING NOTES, SEE THIS SHEET.

# <u>MAINTENANCE</u>

THE SITE SUPERINTENDENT, OR HIS/HER REPRESENTATIVE, SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E., SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS, ESPECIALLY AFTER A HEAVY RAINFALL EVEN TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE DAY INCLUDING RE-SEEDING AND MULCHING OR RESODDING IF NECESSARY.

# THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

- 1. THE SILT FENCE BARRIER WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
- 2. THE SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED
- 3. NO UNPROTECTED, DISTURBED AREA SHALL DRAIN TO ROADWAY PAVEMENTS SUCH THAT THE SUBBASE, BASE, OR WEARING SURFACE ARE CONTAMINATED BY SILT TRAPPED AT LOW POINTS OR INLETS. SODDING -3.33

### ALL SODDED AREAS, IF PROPOSED, SHALL BE CONDUCTED IN ACCORDANCE OF SECTION 3.33 OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK. DUST CONTROL

CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE ENTIRE CONSTRUCTION PHASE BY THE APPLICATION OF WATER AND/OR APPROVED ADHESIVES PER STD. 3.39 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).



# SEQUENCE OF CONSTRUCTION

# SEDIMENT CONTROL PLAN (PHASE I & II):

- 1. SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH OWNER. WORK AREA LIMITS ARE TO BE FLAGGED IN THE FIELD PRIOR TO MEETING DATE.
- 2. INSTALL TREE PROTECTION FENCING/SUPER SILT FENCE PRIOR TO INSTALLING BORE PITS.
- 3. INSTALL PERIMETER SEDIMENT CONTROLS INCLUDING CONSTRUCTION ENTRANCE AND SUPER SILT FENCE, AS APPROPRIATE AND AS ROOM ALLOWS FOR CLEARING OPERATIONS, AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- CONSTRUCTION OF THE PROPOSED WATERLINE SHALL BE DONE IN SEGMENTS WITH NO MORE THAN 250 LF OR 2,500 SF OF DISTURBANCE AT ANY ONE TIME. THE MAJORITY OF THE CONSTRUCTION SHALL BE DIRECTIONALLY BORED.
- THE BEGINNING OF THE WATERLINE SHALL BE TRENCHED UP TO THE LOCATION AS SHOWN ON THE PLANS ON SHEET 12. THE EXTENTS OF THE TRENCH SHALL HAVE SUPER SILT FENCE.
- AT EACH BORE PIT (STARTING AND RECEIVING) THERE SHALL BE SUPER SILT FENCE AROUND THE EXTENTS OF THE PIT TO ENSURE SEDIMENT DOES NOT LEAVE THE PIT.
- FOR EACH CAMPSITE THE 1" SERVICE LINE SHALL BE DIRECTIONALLY BURIED. THE TRENCH SHALL BE LINED WITH SUPER SILT FENCE DURING CONSTRUCTION AND REMOVED ONCE THE GROUND IS STABILIZED AND THE INSTALLATION OF THE SERVICE LINE AND HYDRANT ARE COMPLETE.
- SINCE THIS WILL BE PHASED CONSTRUCTION IT IS NOT RECOMMENDED TO INSTALL ALL THE EROSION AND SEDIMENT MEASURES AT ONCE.
- STOCKPILE AREAS SHALL BE LOCATED UPHILL OF THE BORE PITS AND WILL BE ADEQUATELY PROTECTED WITH SUPER SILT FENCE.
- AFTER CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.

# **EXCESS HAULING MATERIAL NOTE:**

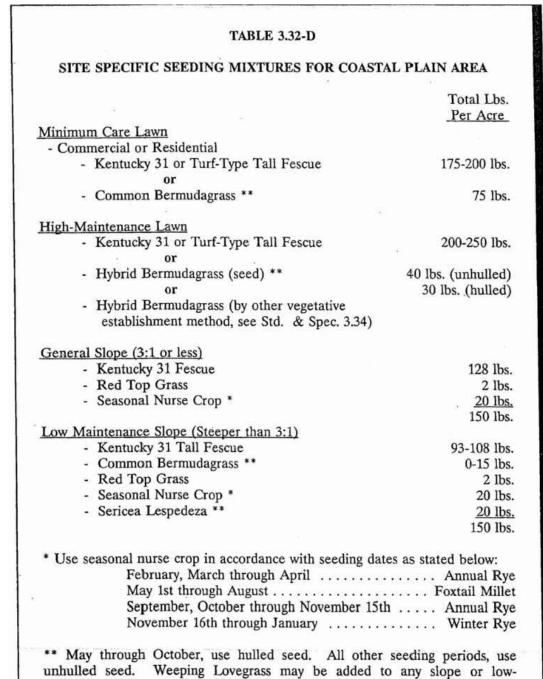
ANY EXCESS GRADING SHALL BE LOCATED WITHIN THE LIMITS OF THE SITE AT A LOCATION APPROVED BY THE OWNER OR THE ENGINEER OF RECORD.

### GENERAL EROSION & SEDIMENT CONTROL NOTES

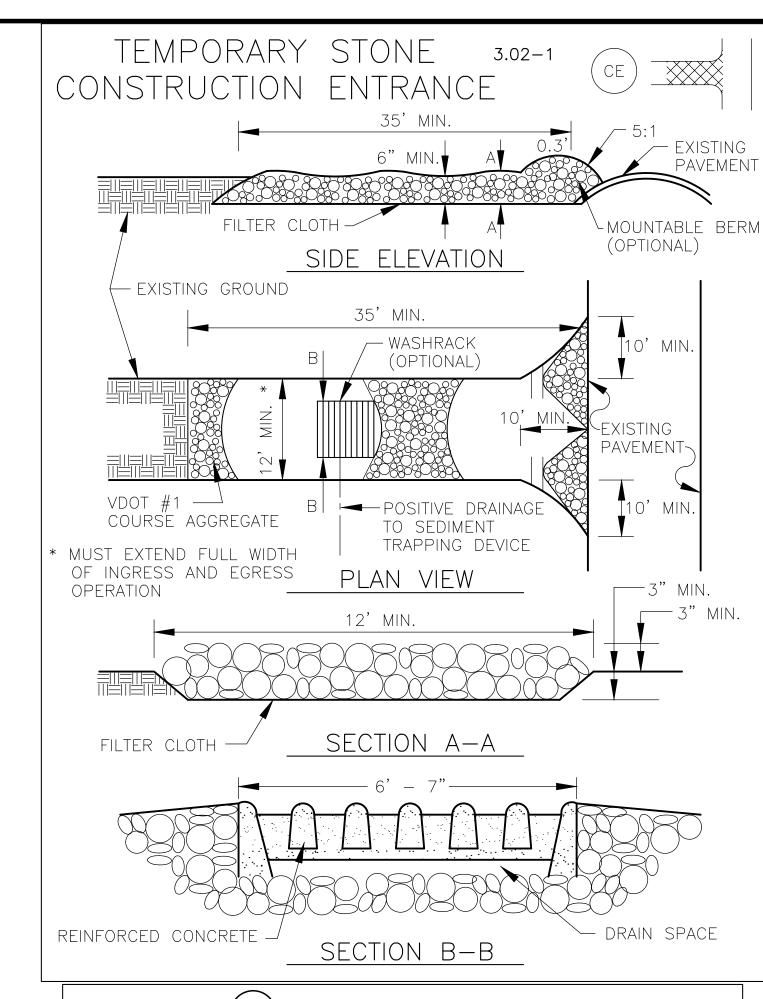
- 1. UNLESS OTHERWISE NOTED, ALL VEGETATIVE AND EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE TO THE LATEST EDITION OF MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- 2. FOR ADDITIONAL DETAILS AND SPECIFICATIONS NOT SHOWN HEREON, REFER TO THE LATEST EDITION OF VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- 3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ONSITE AT ALL TIMES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN HEREON THAT ARE DEEMED NECESSARY BY THE APPROVING AUTHORITY AND/OR THE SITE INSPECTOR.
- 5. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES DAILY. ANY DAMAGED CONTROLS SHALL BE REPAIRED OR REPLACED BY THE CLOSE OF EACH WORKING DAY.

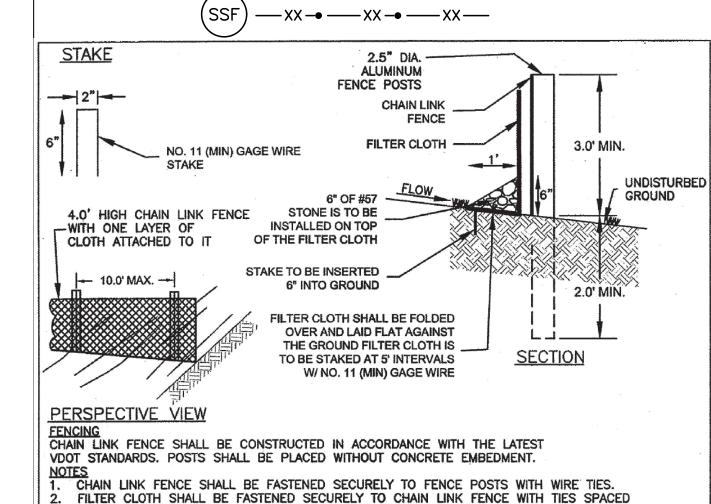
## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
7B	Beltsville silt loam, 2 to 7 percent slopes	9.3	13.9%
40	Grist Mill sandy loam, 0 to 25 percent slopes	1.3	1.9%
76B	Matapeake silt loam, 2 to 7 6.6 percent slopes		9.8%
77B	Mattapex loam, 2 to 7 percent slopes	1.5	2.3%
90B	Sassafras sandy loam, 2 to 7 percent slopes	8.9	13.2%
90C	Sassafras sandy loam, 7 to 15 percent slopes	1.3	2.0%
91C	Sassafras-Marumsco complex, 7 to 15 percent slopes	1.6	2.4%
91D	Sassafras-Marumsco complex, 15 to 25 percent slopes	5.5	8.2%
91E	Sassafras-Marumsco complex, 25 to 45 percent slopes	27.9	41.5%
95	Urban land		4.8%
W	Water	0.0	0.1%
Totals for Area of Interest	•	67.3	100.0%



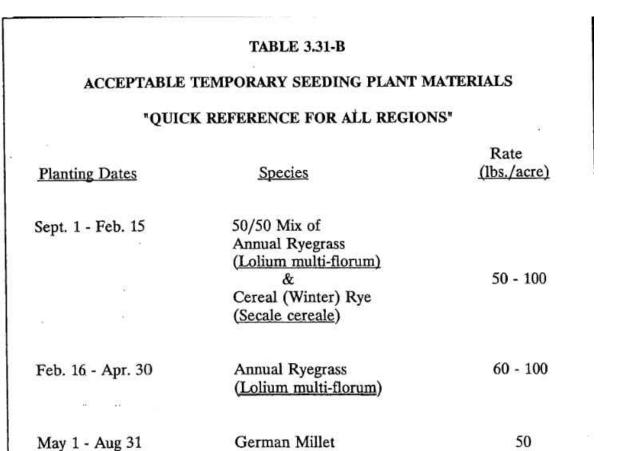
maintenance mix during warmer seeding periods; add 10-20 lbs./acre in mixes.





2.0' AT THE TOP, MID SECTION, AND BOTTOM. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED. 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SUPER SILT FENCE
5. SILT FENCE MATERIAL SHALL MEET THE REQUIRED PHYSICAL PROPERTIES FOR SYNTHETIC FILTER FABRIC AS REQUIRED IN 3.05 OF THE VESCH. MODIFIED SUPER SILT FENCE

SUPER SILT FENCE SHALL SERVE AS TREE PROTECTION FENCING WHERE INDICATED ON THE PLAN.



(Setaria italica)

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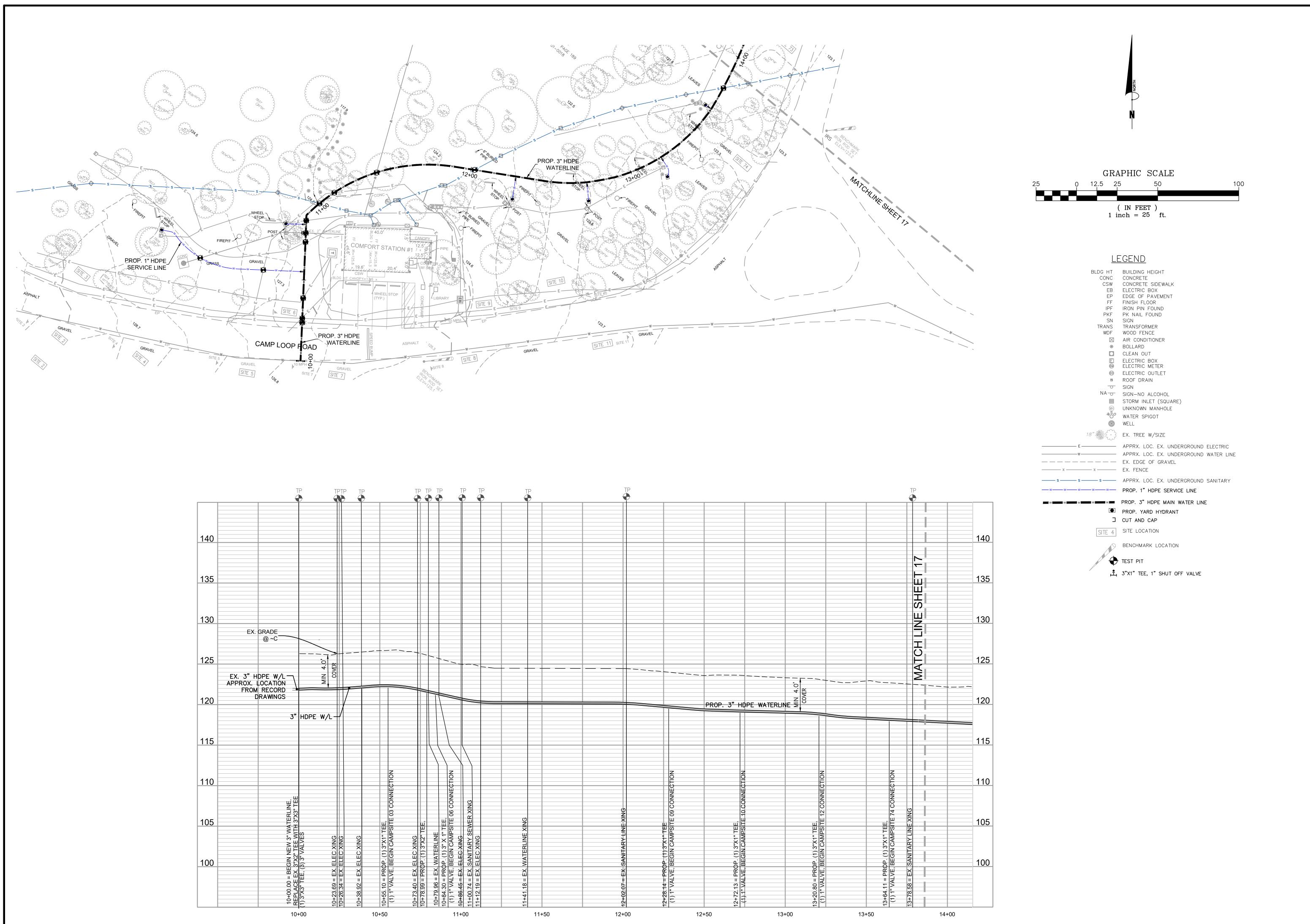
PROJECT NO COUNTY PROJECT NUMBER

PLAN STATUS /23/24|DRAFT SUBMISSIC 5/17/24|DRAFT SUBMISSIC 08/14/24 FINAL SUBMISSION

DATE | DESCRIPTION KM **DESIGN** DRAWN | CHKD H: AS SHOWN SCALE

JOB No. DATE: FEBRUARY, 2024 FILE No. 140356-01-001

THEET 15 OF 19



WATERLINE PLAN AND PROFILE (1 OF 3)

POHICK BAY REGIONAL PARK
CAMPGROUND WATERLINE IMPROVEMENTS
FAIRFAX COUNTY, VIRGINIA,

PROJECT NO COUNTY PROJECT NUMBER

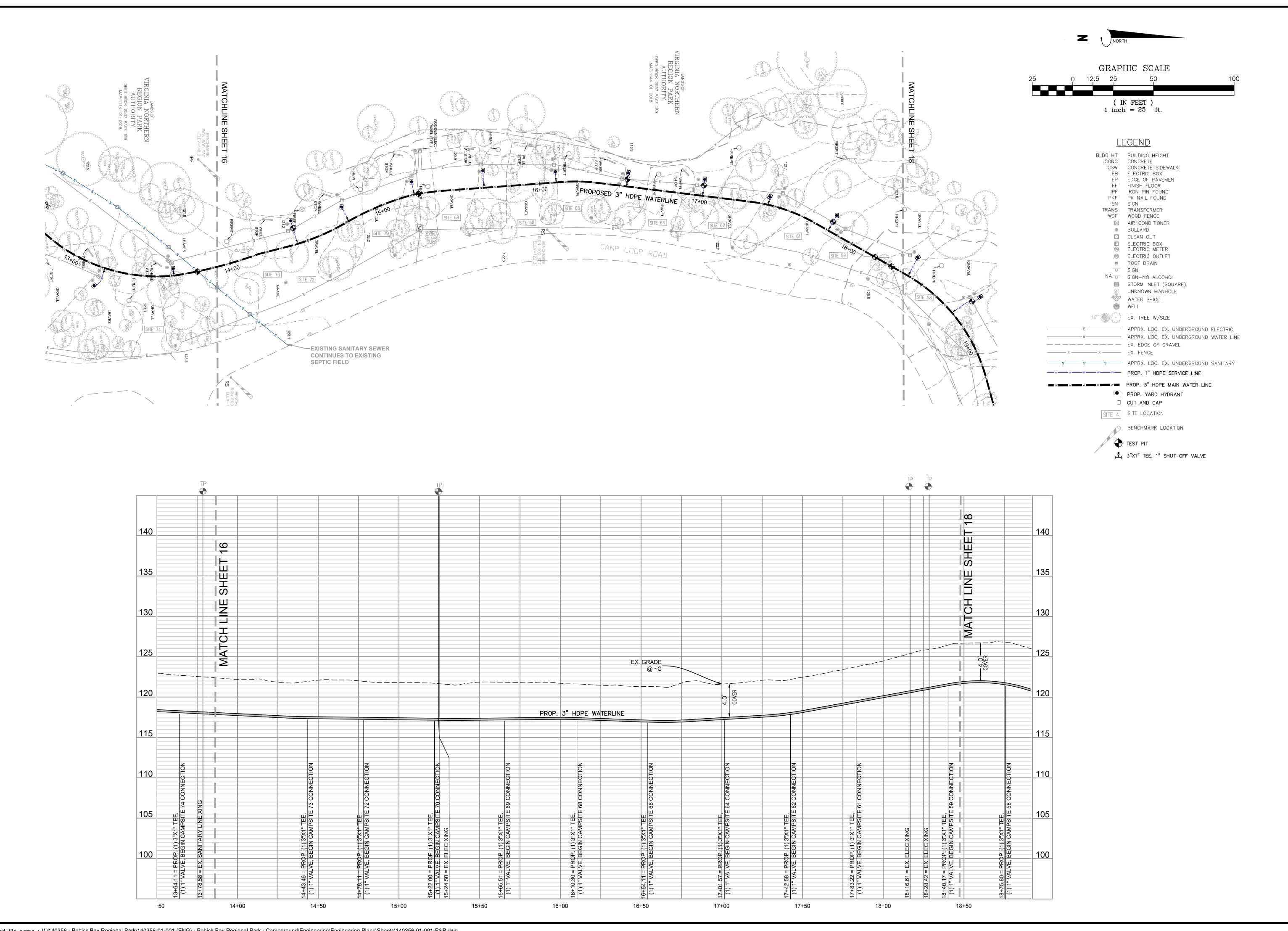
PLAN STATUS 02/23/24 DRAFT SUBMISSIC 05/17/24 DRAFT SUBMISSIO 08/14/24 FINAL SUBMISSION

DATE DESCRIPTION KM | DESIGN DRAWN CHKD SCALE H:1' = 25"

V: 1" = 5' JOB No.

DATE: FEBRUARY, 2024 FILE No. 140356-01-001

SHEET 16 OF 19



**PARK**VEMENTS POHICK BAY REGIONAL P CAMPGROUND WATERLINE IMPROVE FAIRFAX COUNTY, VIRGIN WATERLINE PLAN A

PROJECT NO

COUNTY PROJECT NUMBER

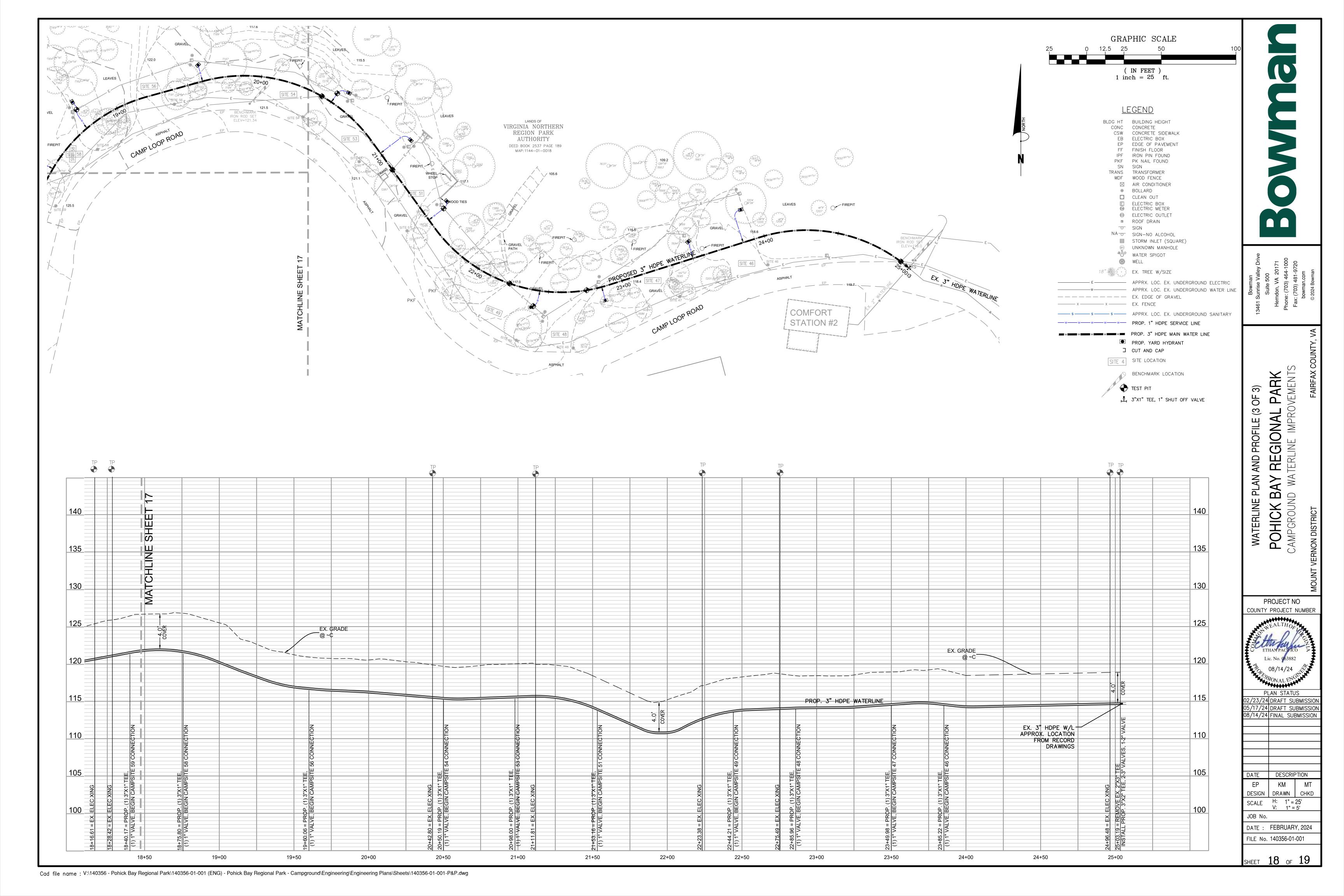
02/23/24 DRAFT SUBMISSION 05/17/24 DRAFT SUBMISSION 08/14/24 FINAL SUBMISSION

DATE DESCRIPTION KM

DESIGN DRAWN CHKD SCALE H: 1" = 25' V: 1" = 5' JOB No.

DATE: FEBRUARY, 2024 FILE No. 140356-01-001

SHEET 17 OF 19





The Model S4H is an automatic draining, sanitary, frost proof Yard Hydrant, with ASSE 1052 double check Automatic Draining backflow preventer. This hydrant is designed for use in public areas such as campgrounds and parks or any

Freezeless, Self Closing location were potable water is required.

the ground, the Model S4H employs a reservoir below frost line to contain the water. The hydrant is completely sealed to prevent surface and ground water from entering reservoir or service line. The valve, with it's unique venturi design, removes the stored water along with the water being used.

The Model S4H is equipped with a diverter spout, which allows the hydrant to be operated independently from the backflow preventer. When the hydrant is to be used with a hose, the diverter sleeve is pulled down during flow and water is automatically diverted to the backflow preventer hose connection. The diverter will work with or without a hose attached to the backflow preventer and will automatically release any time the hydrant is

An important feature of the S4H is easy maintenance. The entire working portion of the hydrant can be removed from the reservoir without any excavation.

### SPECIFICATIONS: HOSE CONNECTION BACKFLOW PREVENTER (BFP)

- NIDEL® Model 37HF
- ASSE 1052 Approved
- Field Testable (see instruction sheet) Two Check Valves

OPTIONAL: ASSE 1057 listed - Consists of NIDEL® Model 34HF Single Check Vacuum Breaker Order example: S4H-Bury Depth-SC

ADA COMPLIANT - Meets ADA requirements for height and 5 lbs. Max operating force.

PATENT - See website for more information: http://www.WoodfordMfg.com/Woodford/patents/

FEMALE INLET - 1" N.P.T. FINISH - Painted Forest Service brown.

MIN PRESSURE - 20 psi MAX PRESSURE - 100 psi

MAX TEMPERATURE - 120° F

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FLOW RATES (GPM) PSI DIVERTER BFP 20 7.0 10.0 5.0 11.0 7.0 12.0 14.0 15.0 10.0 When ordering, specify bury depth.

Backflow Protected \ Unlike conventional hydrants which drain the water into

Sanitary Yard Hydrant

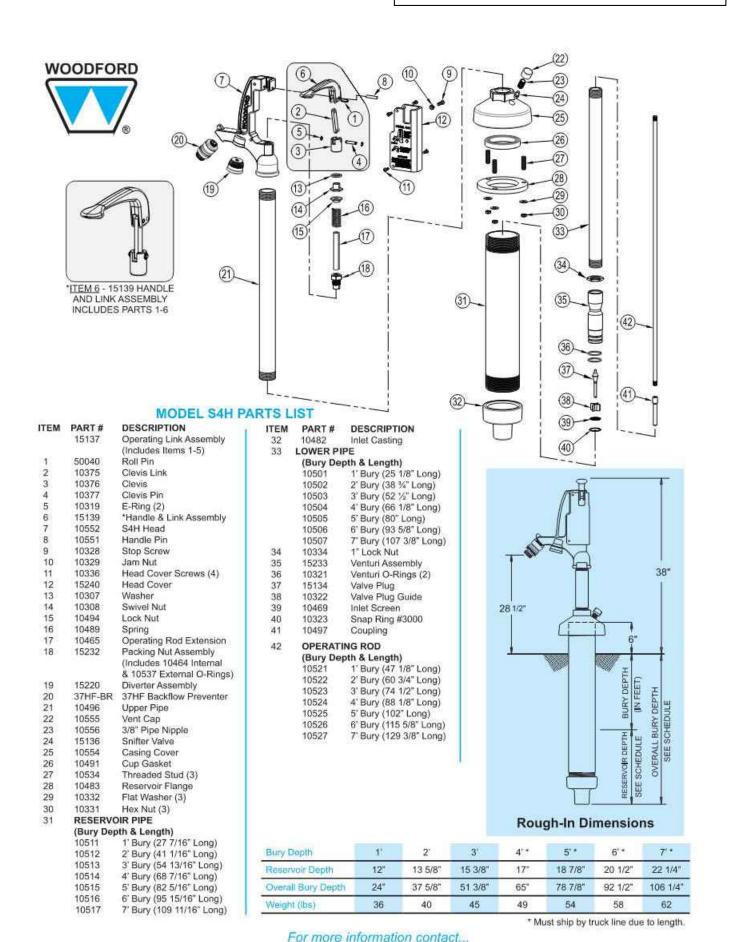


FOR WINTER USE: The hydrant must be operated at full flow, through the diverter, for a minimum of 30 seconds before and after each use to drain the hydrant

and prevent freezing. or Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-603

hose is attached.

Rev. 06/16 Form No. S4H.112 OR APPROVED EQUAL



### WOODFORD MANUFACTURING COMPANY, LLC. 2121 Waynoka Road, Colorado Springs, Colorado 80915 • Phone: (800) 621-6032 • Fax: (800) 765-4115 To view our complete product line visit: www.woodfordmfg.com or email: sales@woodfordmfg.com

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OR APPROVED EQUAL

Rev. 06/16 Form No. S4H.112

### INSTALLATION, MAINTENANCE AND TROUBLE SHOOTING OF THE WOODFORD MODEL S4H HYDRANT www.woodfordmfg.com or call 1-800-621-6032

INSTALLATION

The S4H is designed to be 28 1/2" from grade to the hose connection outlet. The reservoir of the S4H extends below bury depth (frostline). The supply line should be installed deeper than normal bury depth (see overall bury depth schedule).

For convenient maintenance, a shut-off valve ahead of each hydrant is recommended.

WARNING: FLUSH SUPPLY LINE BEFORE CONNECTING HYDRANT.

With the hydrant completely assembled, make the connection to the supply line, tightening with a pipe wrench on the inlet casting (#32).

The bottom of the casing cover (#25) must be 4 1/2" above grade to allow easy access to remove the three

### MAINTENANCE

- To remove hydrant from reservoir: Turn off water supply.
- Remove the three nuts located under the casing cover (#25).
- Pull hydrant straight up and remove from the reservoir. To reinstall:
- Clean and inspect the two venturi O-rings (#36). Replace O-rings if damaged. Lubricate with silicone grease or other non-toxic lubricant that is safe for rubber.
- Clean cup gasket (#26). Replace if damaged. 3. Insert hydrant in the reservoir. Align the studs with the holes in the flange. Replace and tighten the
- Turn on water supply and check for leaks.

### TROUBLE SHOOTING

1. WATER LEAKS FROM UNDERNEATH CASING COVER WHILE HYDRANT IS ON. Tighten nuts (#30) under casing cover (#25). If leak persists, remove hydrant from reservoir and inspect cup gasket (#26) for cracks or damage. Remove cup gasket and measure from top of reservoir flange (#28) to top of reservoir (#31). Dimension should be 1/2". If necessary, adjust flange by threading flange on reservoir. Reinstall hydrant.

2. WATER LEAKS FROM DIVERTER, OR FILLS RESERVOIR, WHILE HYDRANT IS OFF. Check linkage adjustment. With the head cover off, lift handle and check if the linkage (#1-5) has a small amount of play and is not binding. Adjust lock nut (#15) and swivel nut (#14) down to increase play. If hydrant continues to leak, valve plug (#37) may be fouled or damaged. Remove hydrant from the reservoir. Hold or lock the handle down in an open position. Remove snap ring (#40), screen (#39) and valve plug guide (#38). Unthread valve plug (#37) with screwdriver. Check for damage or obstruction. Check venturi O-rings (#36) for damage. Reinstall parts and hydrant.

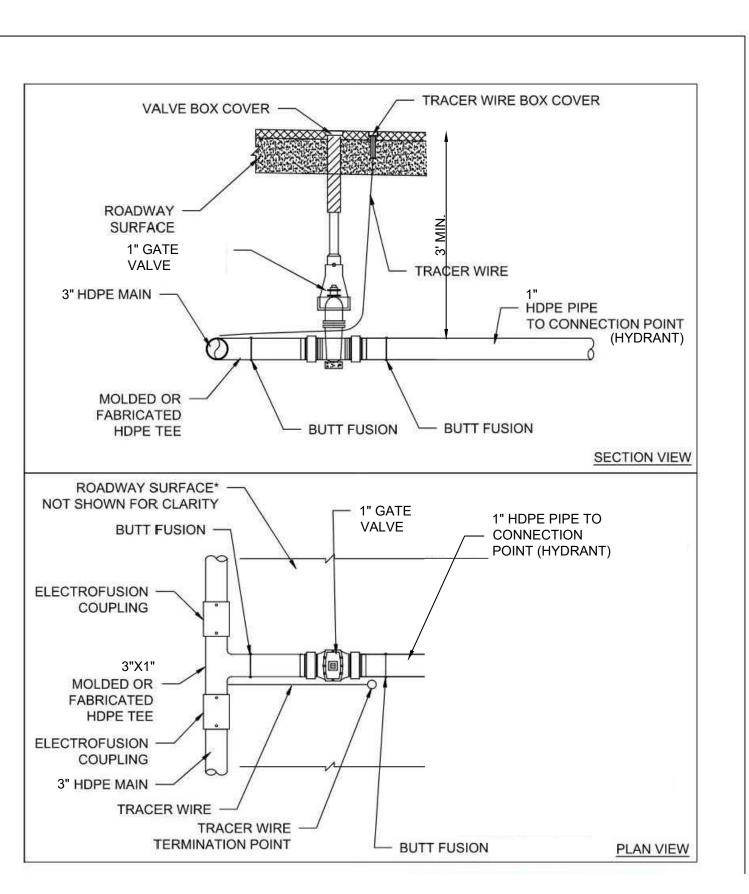
A compressed spring can be dangerous. Be careful not to get fingers caught in linkage parts if spring were to suddenly expand.

### OPERATION

The hydrant shall be run for a minimum of 30 seconds before user draws for drinking water.

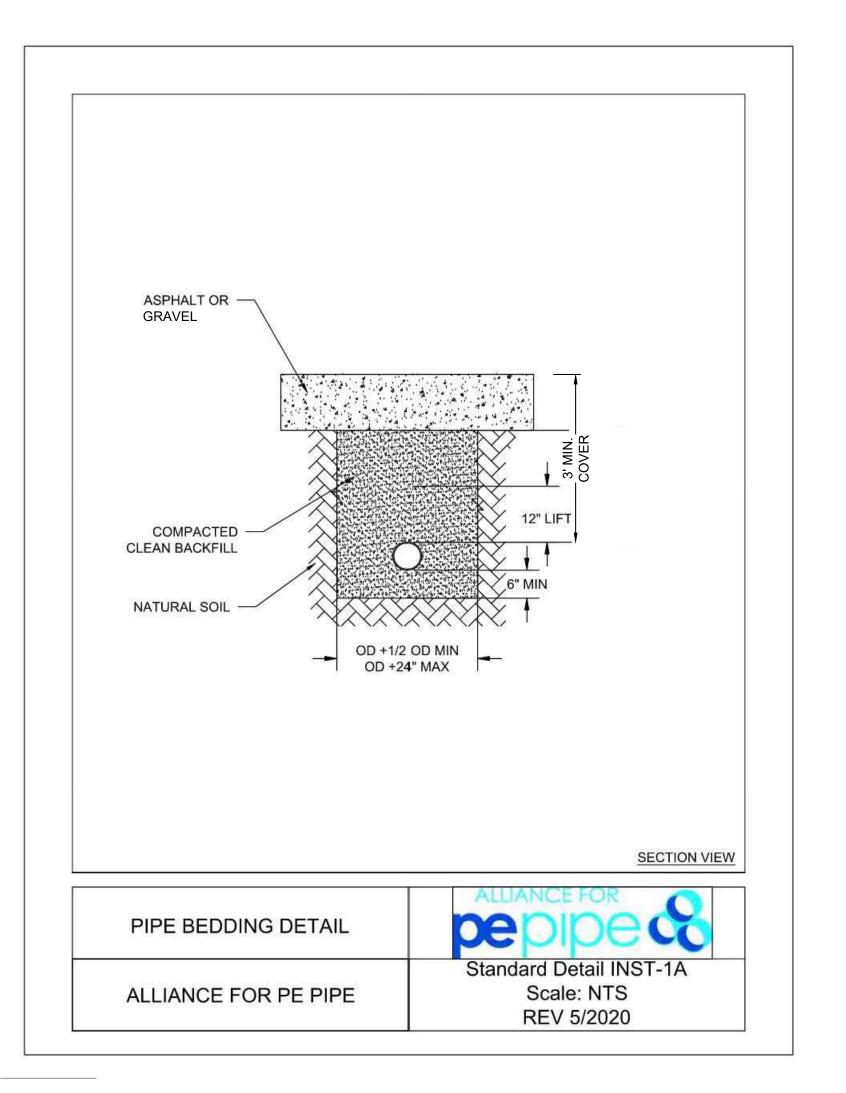
FOR WINTER USE: The hydrant must be operated at full flow, through the diverter, for a minimum of 30 seconds before and after each use to drain the hydrant and prevent freezing.

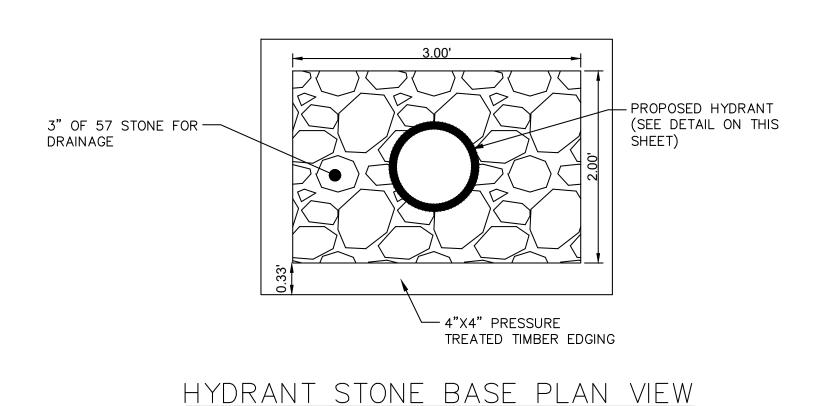
Rev. 08/10 Form No. S4HINSTAL 104.doc



# HYDRANT SERVICE CONNECTION DETAIL

CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWING OF PIPE AND APPURTENANCES, MATERIALS, ASSEMBLY, OPERATION OF HYDRANT SERVICE LINE, VALVES, ETC.







PARK

GIONAL **DETAILS WATER LINE**  $\triangleleft$ POHIC

PROJECT NO COUNTY PROJECT NUMBER

2/23/24 DRAFT SUBMISSI

5/17/24 DRAFT SUBMISSIO 08/14/24 FINAL SUBMISSIO

DATE DESCRIPTION KM DESIGN | DRAWN | CHKD H: NTS

JOB No. DATE: FEBRUARY, 2024 FILE No. 140356-01-001

SCALE

SHEET 19 OF 19