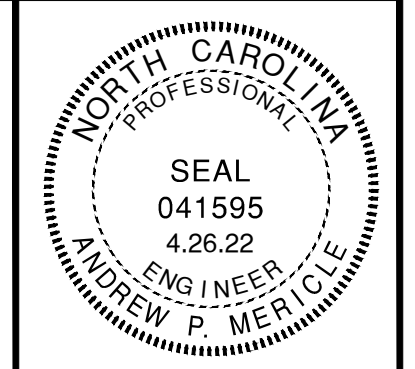


# LEXINGTON PLANTATION POOL

## HARNETT COUNTY, NORTH CAROLINA



**Draper Aden Associates**  
*Engineering • Surveying • Environmental Services*

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 919-873-1060 Fax: 919-873-1074  
 NC Firm License # F-1429

• Hampton Roads, VA  
 • Fayetteville, NC  
 • Northern Virginia  
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 • Richmond, VA  
 • Blacksburg, VA  
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COVER  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

REVISIONS
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE: NONE
DATE: 4.26.22
PROJECT NUMBER: 2101033-01
<b>C1.0</b>

**PARCEL DATA**  
 OWNER/DEVELOPER: VOLA, LLC  
 PO BOX 1328  
 CARY, NC 27512

ZONING: RA-20R  
 SETBACKS:

30' - FRONT SETBACK - IF STREET R/W IS 60' OR MORE  
 35' - FRONT SETBACK - IF STREET R/W IS LESS THAN 60'  
 25' - REAR SETBACK  
 20' - CORNER SETBACK  
 10' /5' SIDE SETBACK

PIN: 9594-09-9184

DEED REFERENCE: BOOK 2948, PAGE 429

**FLOOD PLAIN INFO:**  
 ZONE: X  
 MAP NUMBER: 3710958400J  
 EFFECTIVE DATE: OCT 3, 2006  
 PARCEL AREA: 3.61 ACRES  
 LAND USE CLASS: COMPACT MIXED USE/LDR

**PARKING:** 44 STANDARD & 4 HANDICAP = 48 TOTAL  
**SWIMMING:** 1/15 sf OF POOL, 1200SF - 80 SWIMMERS MAX  
**EST. WATER/SEWER USAGE:** 10 GAL/DAY/SWIMMER - 800 GAL/DAY

- NOTES:**
- PARKING AREAS, DRIVE AISLES, ACCESS ROADS WILL HAVE AN ASPHALT OR CONCRETE SURFACE.
  - PARKING AREAS AND DRIVE AISLES ARE REQUIRED TO BE SCREENED/LANDSCAPED.
  - PROPOSED DISTURBED AREA IS UNDER ONE ACRE - NO EROSION CONTROL PLAN IS REQUIRED PER NCDEQ
  - PROPERTY OWNER IS TO BE RESPONSIBLE FOR MAINTAINING PARKING AREAS, LANDSCAPING AND ALL OTHER SITE APURTENANCES
  - THIS DEVELOPMENT IS WITHIN THE FIVE MILE MILITARY CORRIDOR OVERLAY ZONE, AND MAY BE SUBJECT TO MILITARY TRAINING ACTIVITIES.
  - OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PARKING AREAS, DRIVE AISLES, AND ALL LANDSCAPE BUFFERING.
  - LANDSCAPE BUFFERING SHALL BE IN ACCORDANCE WITH THE HARNETT COUNTY ZONING ORDINANCE.
  - PROJECT WILL BE SERVED BY HRW FOR WATER AND SEWER.
  - THE WATER AND SEWER TAPS WILL BE INSTALLED BY PRIVATE UTILITY CONTRACTOR.
  - PROPERTY IS NOT IN A WATERSHED DISTRICT.

- BUFFER REQUIREMENTS**  
 ALL BUFFER TYPES SHALL INCLUDE:
1. A STAGGERED ROW OF LARGE MATURING TREES SPACED NOT MORE THAN 30 FEET APART, AND
  2. LOW GROWING EVERGREEN SHRUBS, EVERGREEN GROUND COVER, OR MULCH COVERING THE BALANCE OF THE BUFFER AREA.

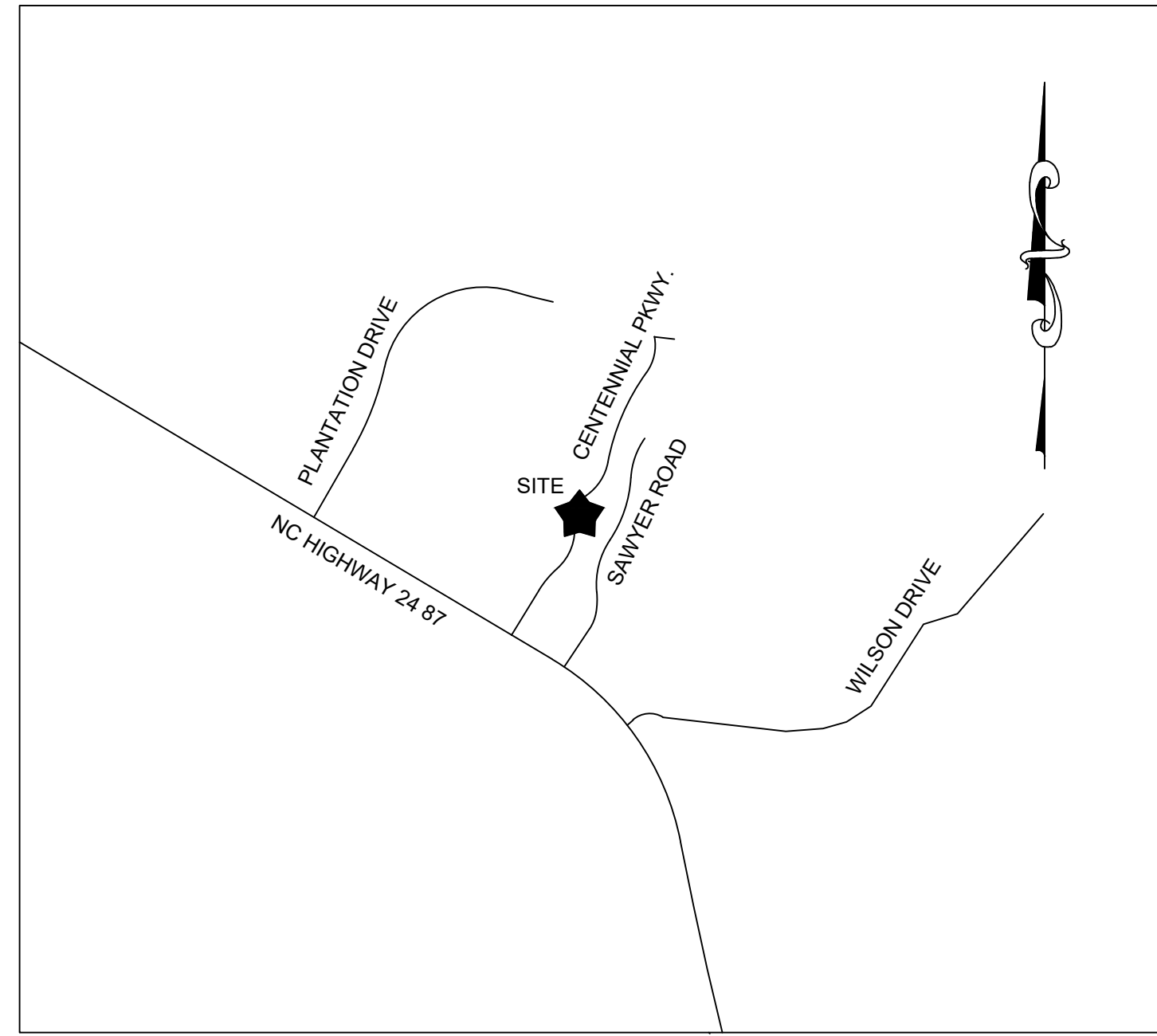
**TYPE "A" - (MINIMUM WIDTH OF 15 FEET)**  
 OPTION 1: A ROW OF EVERGREEN SHRUBS PLACED NOT MORE THAN FOUR(4) TO SIX(6) FEET APART WHICH WILL GROW TO FORM A CONTINUOUS HEDGE OF AT LEAST SIX(6) FEET IN HEIGHT WITHIN TWO(2) YEARS OF PLANTING; OR

OPTION 2: A MASONRY WALL LOCATED WITHIN THE REQUIRED BUFFER AREA; SUCH WALL SHALL BE A MINIMUM HEIGHT OF SIX(B) FEET (ABOVE FINISHED GRADE); AND, IF A BLOCK WALL, IT SHALL BE PAINTED ON ALL SIDES; OR AN OPAQUE FENCE SIX(6) FEET IT HEIGHT.

OPTION 3: A BERM MEETING THE REQUIREMENTS OF HARNETT COUNTY UDO

**TYPE "D" - (MINIMUM WIDTH OF 15 FEET)**  
 OPTION 1: A ROW OF EVERGREEN SHRUBS, 10 SHRUBS FOR EVERY REQUIRED LARGE MATURING TREE, PLACED NOT MORE FOUR(4) FEET APART WHICH WILL ROW TO FORM A CONTINUOUS HEDGE OF AT LEAST SIX (6) FEET IN HEIGHT WITHIN TWO(2) YEARS OF PLANTING; OR

OPTION 2: AN OPAQUE FENCE LOCATED WITHIN THE REQUIRED BUFFER AREA; SUCH FENCE SHALL BE A MINIMUM HEIGHT IF SIX(B) FEET IN HEIGHT.



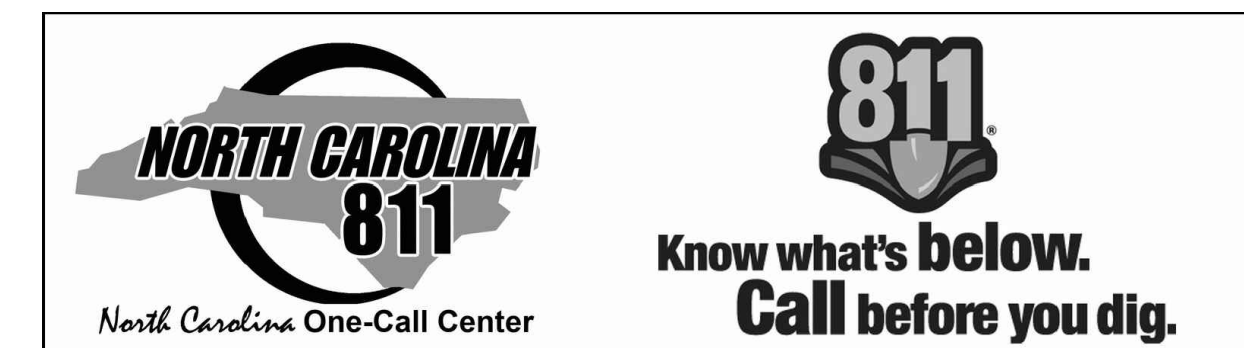
**VICINITY MAP**  
NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER
C2.0	GENERAL NOTES
C2.1	ESC NOTES
C2.2	HRW NOTES
C3.0	EXISTING CONDITIONS, DEMO, & ESC PLAN
C4.0	SITE & UTILITY PLAN
C5.0	GRADING PLAN
C6.0	ESC & SITE DETAILS
C7.0	HRW DETAILS

### DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECTED TO TECHNICAL AND QUALITY REVIEWS BY:

NAME: _____		01.??,2022
PROJECT DESIGNER	SIGNATURE	DATE
NAME: _____		01.??,2022
PROJECT MANAGER	SIGNATURE	DATE
NAME: _____		01.??,2022
QUALITY REVIEWER	SIGNATURE	DATE



AS THE OWNER OF RECORD, I HEREBY FORMALLY CONSENT TO THE PROPOSED DEVELOPMENT SHOWN ON THIS SITE PLAN AND ALL REGULATIONS AND REQUIREMENTS OF THE HARNETT COUNTY ORDINANCES

DATE \_\_\_\_\_ OWNER SIGNATURE \_\_\_\_\_

## GENERAL NOTES

- DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, WHERE APPLICABLE, UNLESS OTHERWISE INDICATED.
- DIMENSIONS AT BUILDING ARE TO OUTSIDE FACE, UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM THE LOCAL AND STATE AGENCIES.
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- ALL PAVING MATERIALS AND DRAINAGE STRUCTURES SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- THE LOCATION OF EXISTING SEWER, WATER OR GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS. FOR ASSISTANCE IN LOCATING EXISTING UTILITIES CALL "NC ONE CALL", DIAL 811.
- ALL WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HARNETT REGIONAL WATER.
- WHERE PAVEMENT IS BEING REMOVED, THE CONTRACTOR SHALL REMOVE AGGREGATE BASE MATERIAL TO SUB-GRADE.
- DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO OWNER.
- EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO LIKE-NEW CONDITION.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY INSPECTORS.
- PARKING SPACES SHALL BE DELINEATED BY FOUR INCH WIDE WHITE TRAFFIC PAINT.
- LANDSCAPING AND SITE IMPROVEMENTS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS WITHIN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY THE ALL APPLICABLE REGULATORY AGENCIES AND THE ENGINEER AT LEAST 24 HOURS PRIOR TO STARTING WORK ON THIS PROJECT.
- UNLESS OTHERWISE NOTED, ALL CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III.
- ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY (29 CFR PART 1926).
- VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- DEVIATIONS FROM, OR CHANGES TO THESE PLANS WILL NOT BE ALLOWED.
- MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO THE PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. REPAIR AT YOUR OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. IF A UTILITY IS DAMAGED DURING CONSTRUCTION, STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER.
- PROPERLY SECURE THE CONSTRUCTION AREA AT ALL TIMES AGAINST UNAUTHORIZED ENTRY AND ADEQUATELY PROTECT EQUIPMENT, MATERIALS, AND COMPLETED WORK FROM THEFT AND VANDALISM. THE OWNER IS NOT RESPONSIBLE FOR THE LOSS OF ANY MATERIAL STORED AT THE SITE.

## GENERAL CONSTRUCTION AND GEOTECHNICAL NOTES

### ENGINEERED FILL

- ALL CONTROLLED FILL ZONES ARE TO BE MONITORED BY A FULL TIME GEOTECHNICAL ENGINEERING SERVICES FIRM.
- ENGINEERED FILLS SHALL BE PROPERLY PLACED ACCORDING TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- ALL SUMMARY REPORTS FROM THE GEOTECHNICAL ENGINEER REPRESENTING THE PROJECT MUST STATE HIS PROFESSIONAL OPINION ON THE SATISFACTORILY COMPLETED PHASES OF CONSTRUCTION SUCH AS; SLOPE CUTS, SUBDRAINAGE SYSTEMS, PREPARATION OF SUBGRADES AND COMPACTION OF EARTH FILLS.
- NO FILLS SHALL HAVE ZONES THAT EXCEED TWO (2) FEET IN ELEVATION WITHOUT CONDUCTING COMPACTION TEST AND OBTAINING RESULTS OF 95% OR GREATER.
- THE GEOTECHNICAL ENGINEER MUST SUBMIT A DETAILED ANALYSIS, ITEMIZING THE FIELD DENSITY TEST RESULTS. THIS REPORT SHALL BE ACCOMPANIED WITH A COPY OF THE SITE PLAN SHEET AND INDICATE THE TEST LOCATIONS AND ELEVATIONS. THE GEOTECHNICAL ENGINEER MUST PROVIDE ENOUGH DESIGNATED TESTING IN ALL FILL ZONES TO ADEQUATELY EXAMINE AND CERTIFY THE INTEGRITY OF THE FILL.
- THE GEOTECHNICAL ENGINEER MUST SUBMIT A CERTIFIED BUILDING PAD REPORT FOR EACH FILL PAD LOCATION. THIS REPORT SHALL PROFILE THE FILL MATERIAL PLACEMENT AND PROVIDE THE COMPACTION TEST RESULTS. ALL REPORTS WILL BE ACCOMPANIED BY THE SITE PLAN, INDICATING THE TEST LOCATIONS AND ELEVATIONS.
- NO BUILDING PADS IN FILL ZONES WILL HAVE STRATUMS EXCEEDING TWO (2) FEET IN ELEVATION WITHOUT TEST VERIFYING DENSITY.
- THESE GEOTECHNICAL NOTES SHALL IN NO WAY LESSEN THE REQUIREMENTS OF THE SUBMITTED SOILS REPORT.

### ROAD SUBGRADE

- INSPECTION AND APPROVAL OF THE SUBGRADE WILL BE REQUIRED PRIOR TO THE PLACEMENT OF THE APPROVED PAVEMENT SECTION MATERIAL.
- ANY CLAY DEPOSITS IN THE TOP TWO FEET OF THE SUBGRADE MUST BE REMOVED OR ADDRESSED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- SUBGRADE APPROVAL SHALL BE ACCOMPANIED BY THE SUPPORTING DOCUMENTATION VERIFYING DENSITY TEST RESULTS OF 95% OR GREATER.
- THE ENTIRE SUBGRADE WILL HAVE BEEN PROOFROLLED IN THE PRESENCE OF THE SITE INSPECTOR AND GEOTECHNICAL REPRESENTATIVE. PROOFROLLING SHALL BE A RUBBER TIRE VEHICLE SUCH AS A LOADED TEN (10) TON TRUCK OF APPROVED COMPACTION EQUIPMENT.
- THE FINAL SUBGRADE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND SITE INSPECTOR BEFORE PLACEMENT OF PAVEMENT SECTION MATERIALS.

## GENERAL UTILITY NOTES

- FIRE HYDRANT VALVE AND ALL VALVE BOXES SHALL HAVE CONCRETE DONUT INSTALLED AT GRADE.
- THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA; EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION AS INDICATED. ALTHOUGH, HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION SO THAT CONTRACTOR IS FAMILIAR AND UNDERSTANDS EXISTING CONDITIONS.
- FIELD CHANGES MAY BE NECESSARY DUE TO EXISTING UTILITY LOCATIONS. THE ENGINEER AND HARNETT COUNTY DEPARTMENT OF PUBLIC UTILITIES SHALL BE CONTACTED BEFORE MAKING THESE CHANGES.
- WATER LINE TO BE INSTALLED A MINIMUM OF 3 FEET BELOW GRADE.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET Laterally FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE A VERTICAL SEPARATION OF AT LEAST 24" SHALL BE MAINTAINED BY EITHER LAYING THE WATER MAIN IN A SEPARATE TRENCH WITH THE BOTTOM AT LEAST 24" ABOVE THE SEWER OR LAYING THE WATER MAIN ON A BENCH IN THE SAME TRENCH AT LEAST 24" ABOVE THE SEWER.
- WHERE A WATER MAIN CROSSES OVER A SEWER, MAINTAIN AT LEAST 24" VERTICAL SEPARATION BETWEEN THE PIPES. IF AN 24" VERTICAL SEPARATION IS NOT POSSIBLE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS (DIP) AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FT ON EACH SIDE OF THE POINT OF CROSSING.
- WHERE A WATER MAIN CROSSES UNDER A SEWER, MAINTAIN AT LEAST 24" VERTICAL SEPARATION BETWEEN THE PIPES. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS (DIP) AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FT ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

## EROSION CONTROL NARRATIVE

### PROJECT DESCRIPTION

CONSTRUCTION OF POOL HOUSE AND POOL WITH FENCING THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THIS PROJECT WILL BE 0.5 ACRES. NO SIGNIFICANT CHANGES TO THE EXISTING DRAINAGE AND HYDROLOGIC PATTERNS ARE PROPOSED.

### EXISTING CONDITIONS

THE EXISTING SITE IS CLEARED.

### DEVELOPMENT IMPACTS

THE DEVELOPMENT IMPACTS TO THE TOPOGRAPHY, SOILS, HYDROLOGY, AND GEOLOGY WILL BE MINOR.

### CRITICAL EROSION AREAS

- CARE MUST BE TAKEN TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS.
- CARE MUST BE TAKEN TO PREVENT SEDIMENTATION EXITING THE PROJECT SITE AREA.
- CARE MUST BE TAKEN TO PREVENT SEDIMENTATION FROM COLLECTING IN THE EXISTING PARKING LOT.

### STOCKPILING

TOPSOIL STOCKPILING IS NOT ANTICIPATED. SPOILS TO BE HAULED OFFSITE.

### STRUCTURAL PRACTICES

CONSTRUCTION ENTRANCE  
SILT FENCE  
SILT FENCE OUTLET  
TEMP. DIVERSION BERM  
PIPE OUTLET PROTECTION  
PERMANENT DIVERSION BERM  
ROCK DOUGHNUT CULVERT INLET PROTECTION  
TEMPORARY DITCH SEDIMENT TRAPS (NCDOT SEDIMENT DAM TYPE B)  
TEMPORARY WATTLE CHECK DAMS  
ROLLED EROSION CONTROL PRODUCTS (RECP)

### VEGETATIVE PRACTICES

TOPSOILING  
TEMPORARY SEEDING  
PERMANENT SEEDING  
MULCHING

### MANAGEMENT STRATEGIES

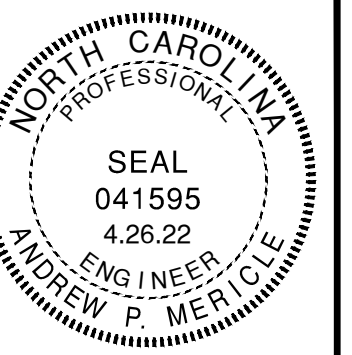
- CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING.
- THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- AFTER ACHIEVING ADEQUATE STABILIZATION AND UPON APPROVAL FROM THE NCDEQ INSPECTOR, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED.

### PERMANENT STABILIZATION

THE DISTURBED AREAS WILL BE PERMANENTLY STABILIZED THROUGH THE USE OF IMPERVIOUS SURFACES AND PERMANENT SEEDING.

### MANAGEMENT STRATEGIES

- 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 1/3 THE WAY TO THE TOP OF THE BARRIER.
- THE SEDIMENT TRAP AND BASIN SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.



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GENERAL NOTES

LEXINGTON PLANTATION POOL

HARNETT COUNTY, NC

REVISIONS

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SCALE: NONE

DATE: 4.26.22

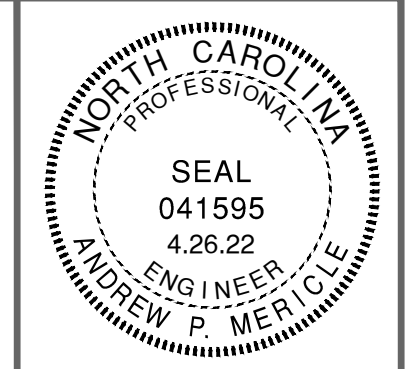
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2101033-01

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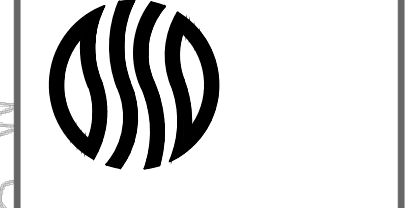






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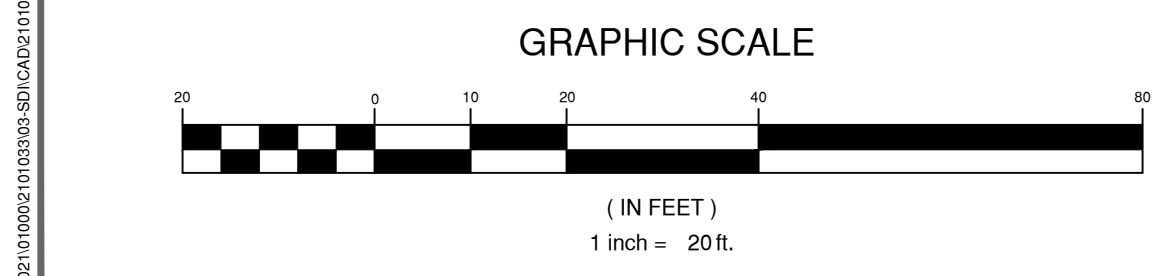
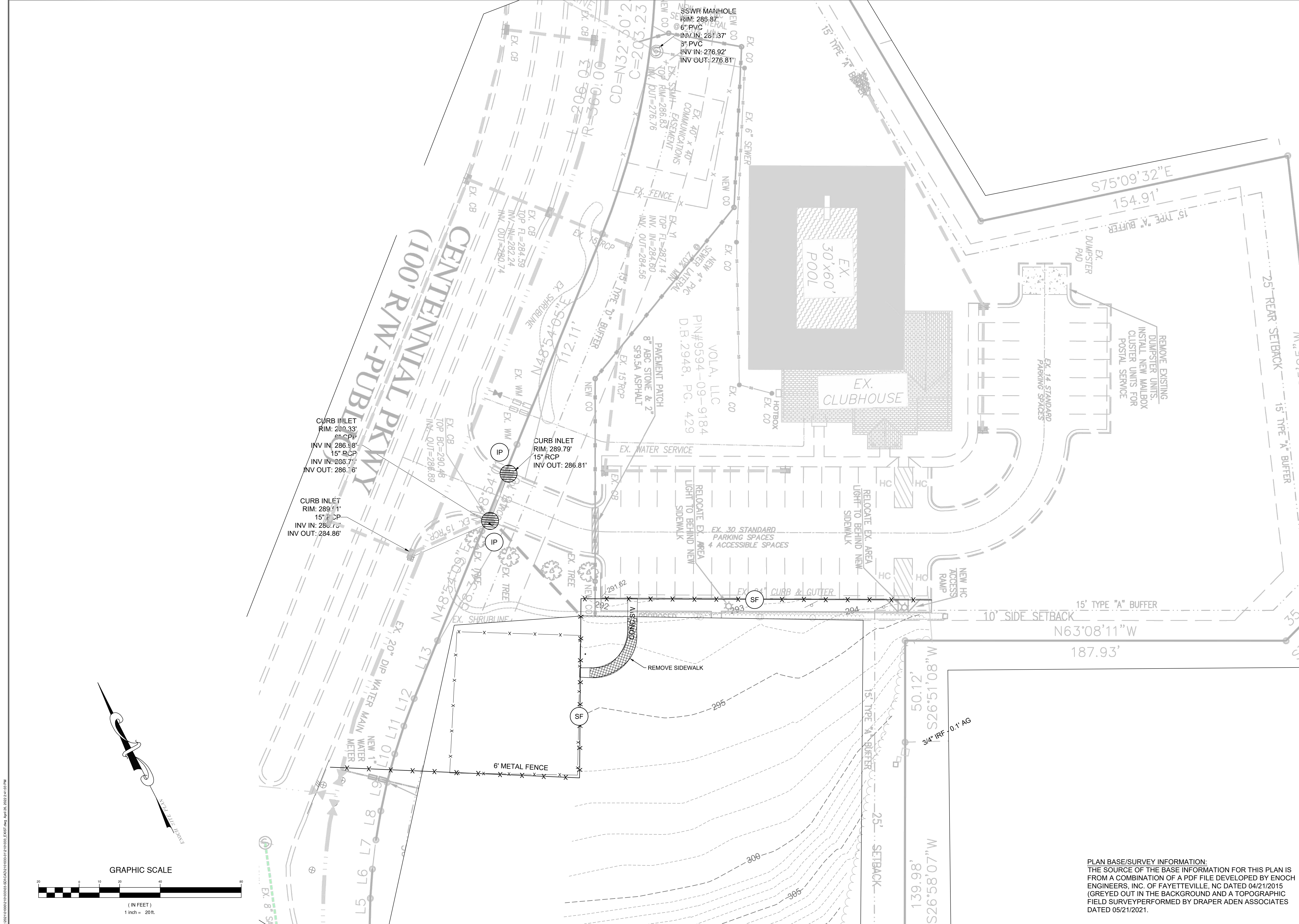
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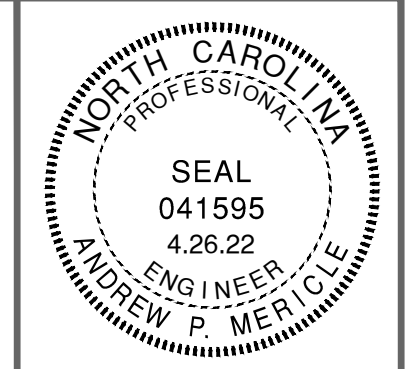
**EXISTING CONDITIONS, DEMO, & ESC PLAN**  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

REVISIONS	
DESIGNED BY:	APM
DRAWN BY:	APM
CHECKED BY:	APM
SCALE:	1" = 20'
DATE:	4.26.22
PROJECT NUMBER:	2101033-01
<b>C3.0</b>	

**PLAN BASE/SURVEY INFORMATION:**  
 THE SOURCE OF THE BASE INFORMATION FOR THIS PLAN IS FROM A COMBINATION OF A PDF FILE DEVELOPED BY ENOCH ENGINEERS, INC. OF FAYETTEVILLE, NC DATED 04/21/2015 (GREYED OUT IN THE BACKGROUND AND A TOPOGRAPHIC FIELD SURVEY PERFORMED BY DRAPER ADEN ASSOCIATES DATED 05/21/2021).

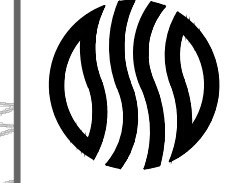


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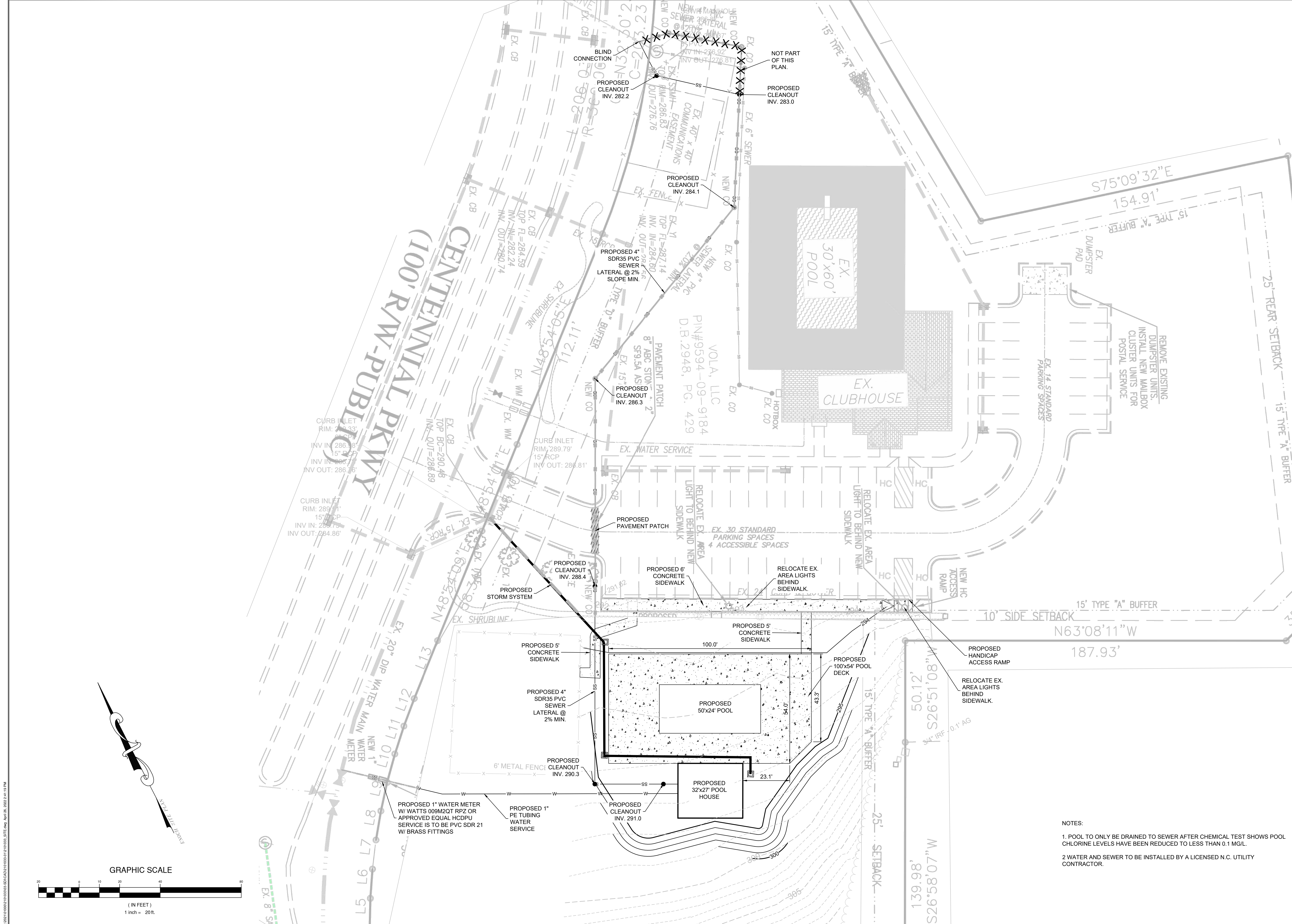
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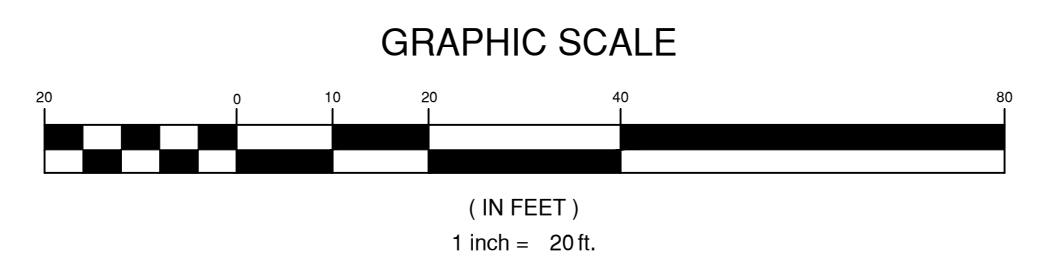


**SITE & UTILITY PLAN**  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

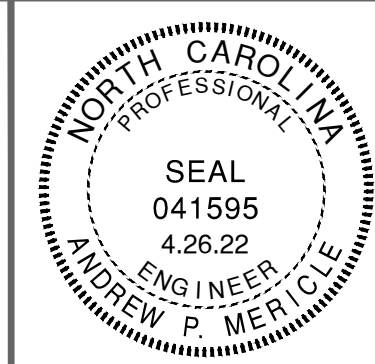
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- NOTES:
1. POOL TO ONLY BE DRAINED TO SEWER AFTER CHEMICAL TEST SHOWS POOL CHLORINE LEVELS HAVE BEEN REDUCED TO LESS THAN 0.1 MG/L.
  2. WATER AND SEWER TO BE INSTALLED BY A LICENSED N.C. UTILITY CONTRACTOR.



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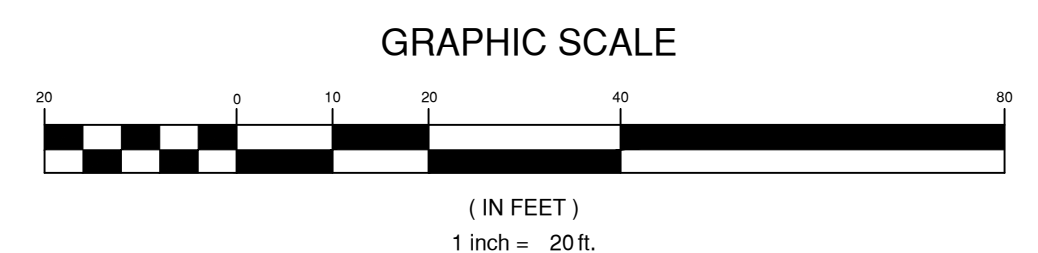
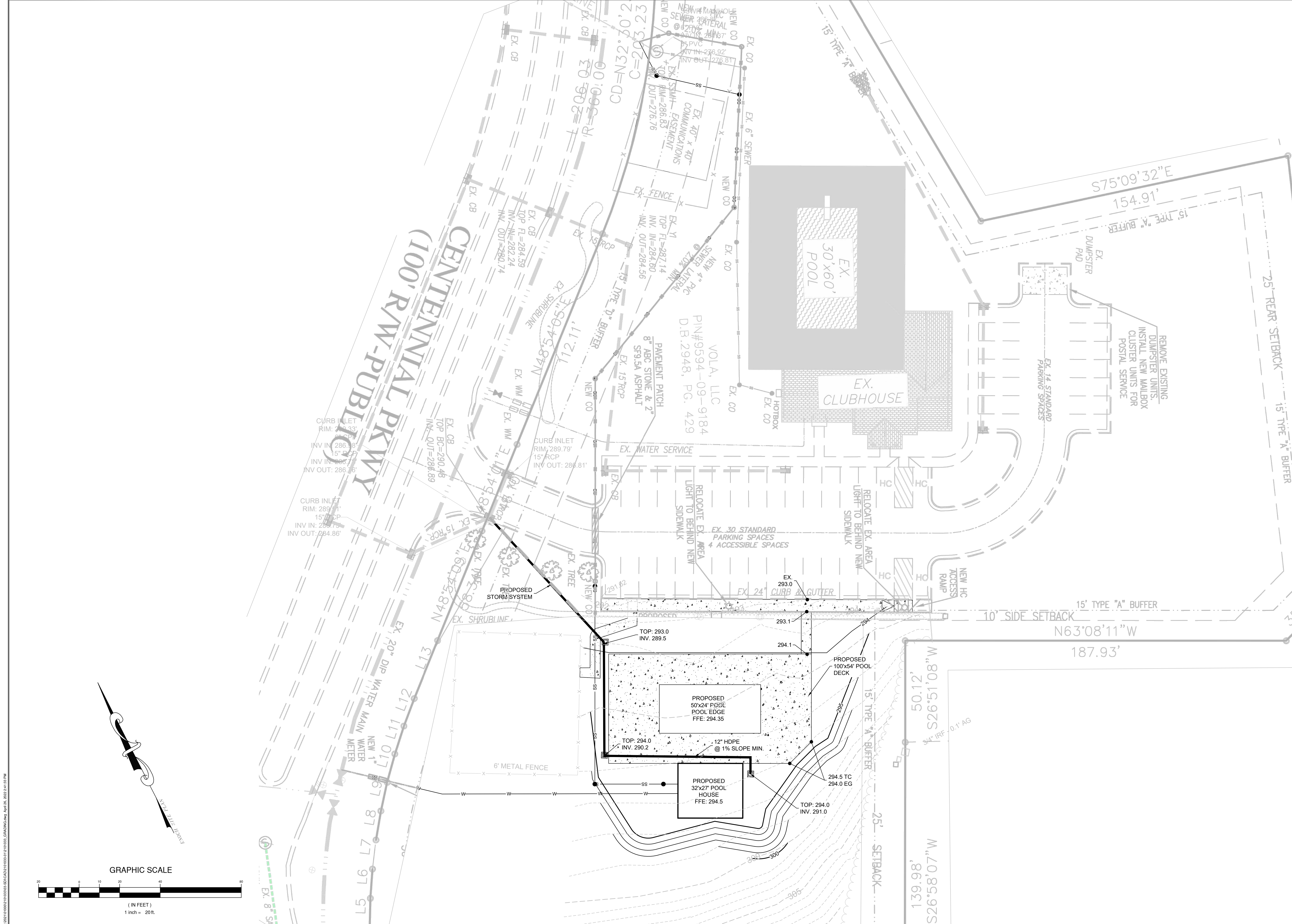


**GRADING PLAN**  
**LEXINGTON PLANTATION POOL**  
 HARNETT COUNTY, NC

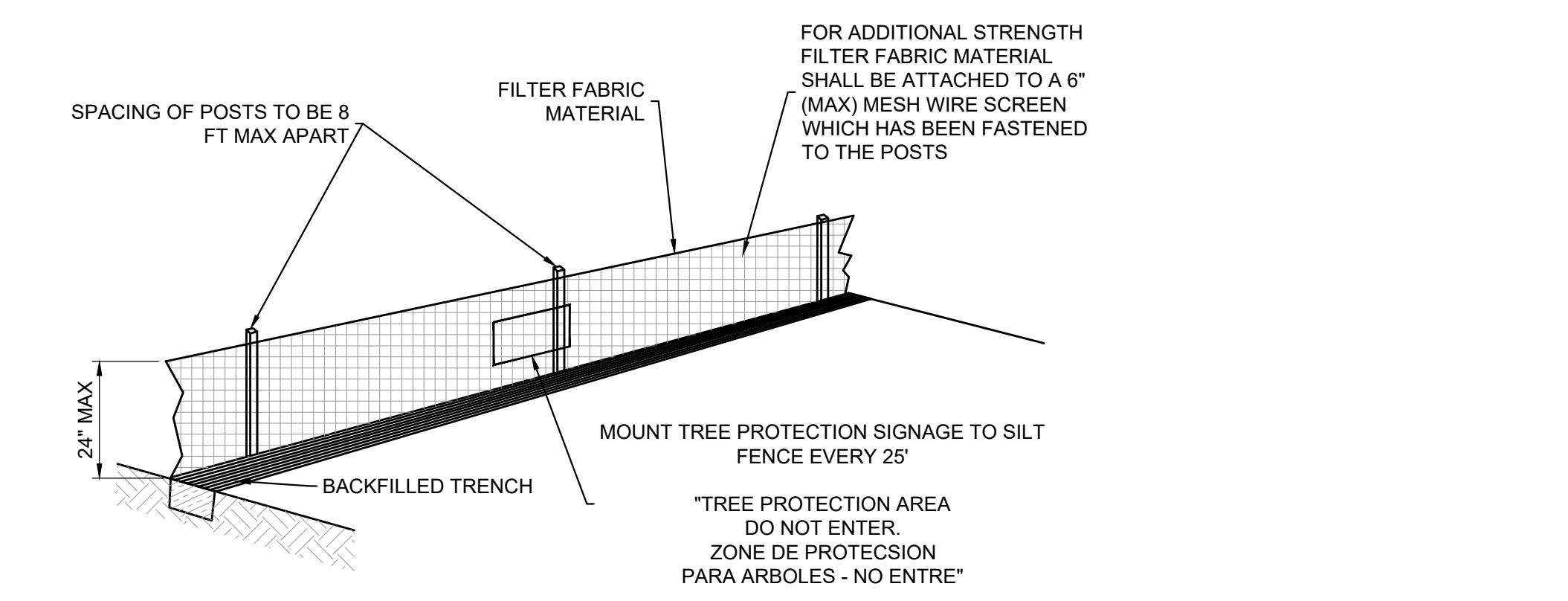
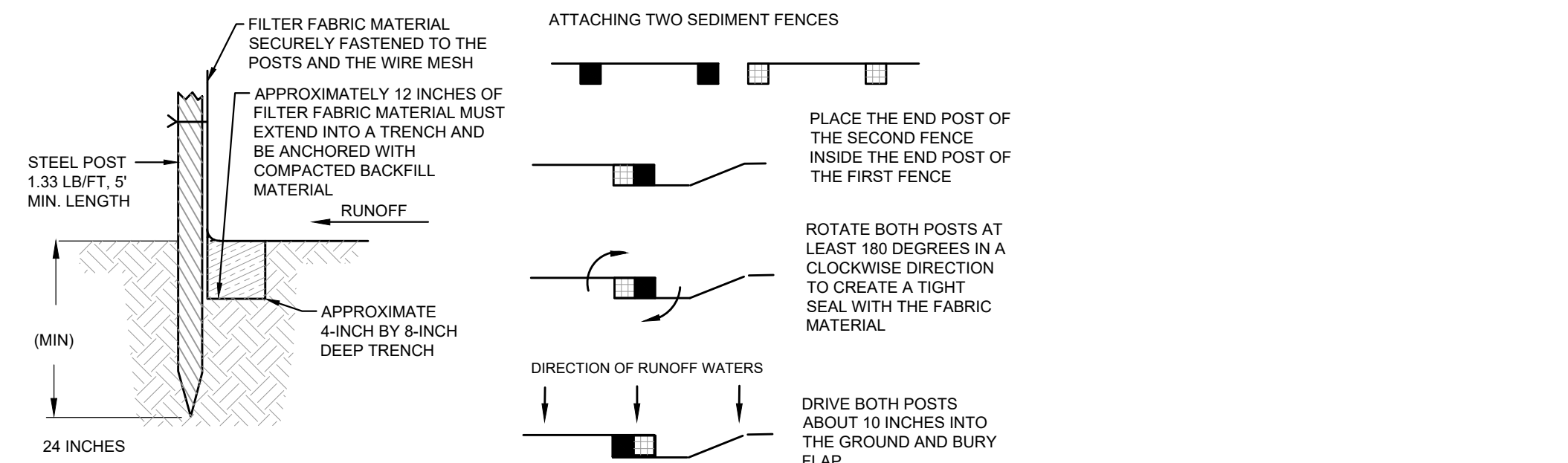
REVISIONS

DESIGNED BY: **APM**  
 DRAWN BY: **APM**  
 CHECKED BY: **APM**  
 SCALE: **1" = 20'**  
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 PROJECT NUMBER: **2101033-01**

**C5.0**



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**MATERIALS**

- USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461, WHICH IS SHOWN IN PART IN TABLE 6.62B. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120° F.
- ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
- FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

**CONSTRUCTION**

- CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
- ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
- CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
- SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
- WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
- EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
- EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER (FIGURE 6.62A).
- PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
- BACKFILL THE TRENCH WITH COMPACTED SOIL PLACED OVER THE FILTER FABRIC. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
- DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

**SEDIMENT FENCE INSTALLATION USING THE SLICING METHOD**

INSTEAD OF EXCAVATING A TRENCH, PLACING FABRIC AND THEN BACKFILLING TRENCH, SEDIMENT FENCE MAY BE INSTALLED USING SPECIALLY DESIGNED EQUIPMENT THAT INSERTS THE FABRIC INTO A CUT SLICED IN THE GROUND WITH A DISC.

**INSTALLATION SPECIFICATIONS**

- THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
- INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
- INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
- INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.
- ATTACH THE FABRIC TO EACH POST WITH THREE TIES. ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
- WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
- NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.
- THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
- COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSLOPE SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF 4 TRIPS.

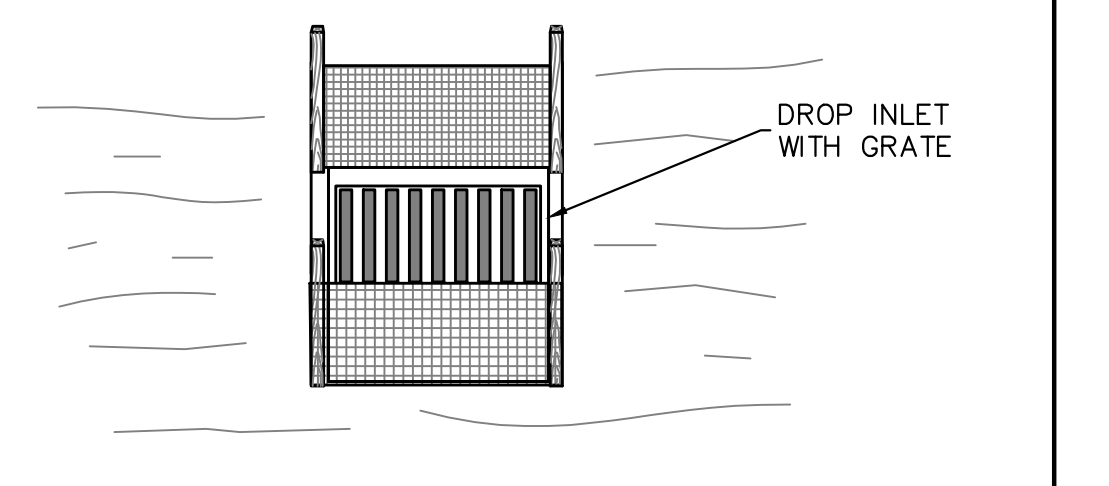
**MAINTENANCE**

- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

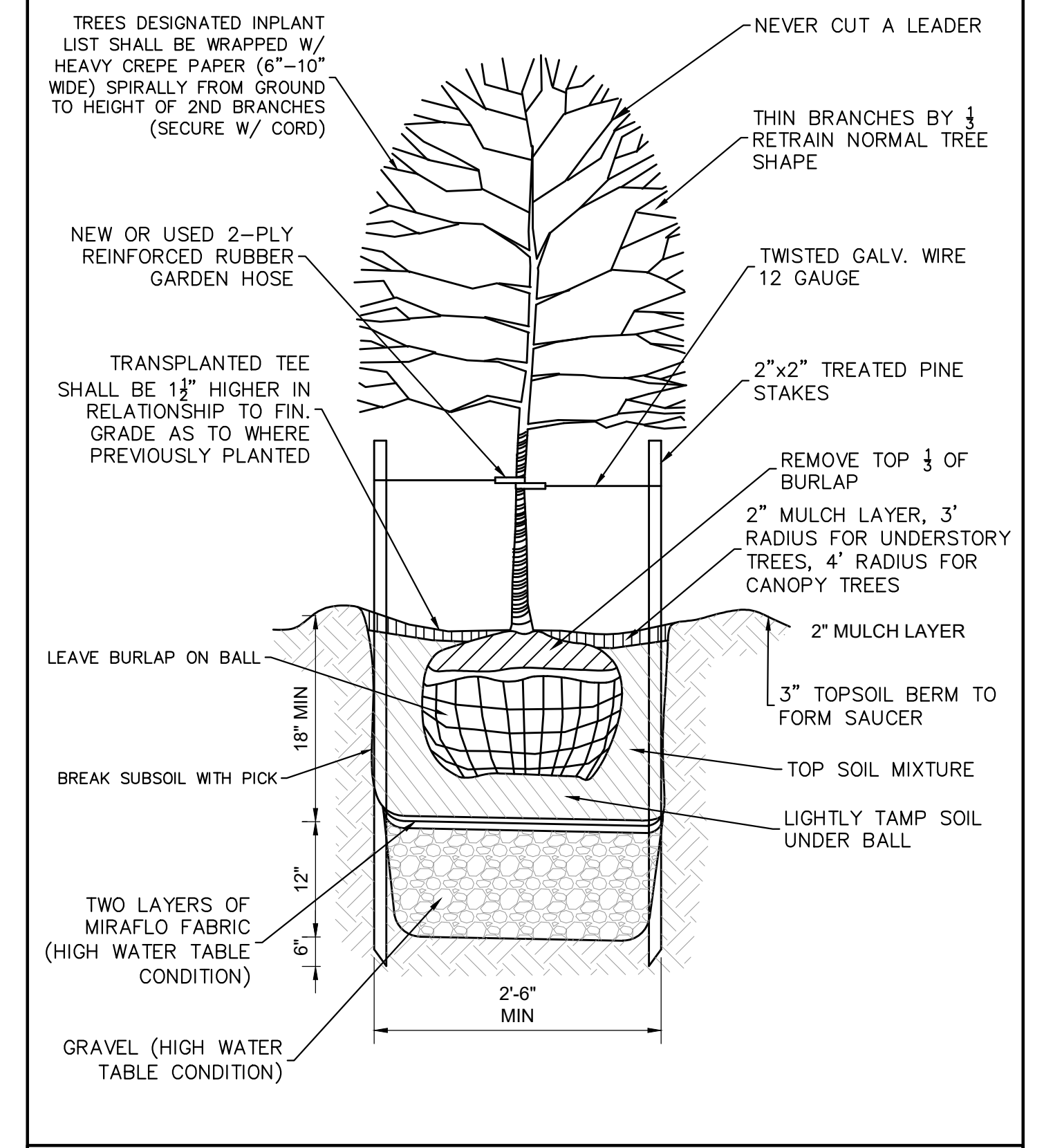
6.8 SEDIMENT FENCE NOT TO SCALE  
C3.0 C6.0

**CONSTRUCTION SPECIFICATIONS**

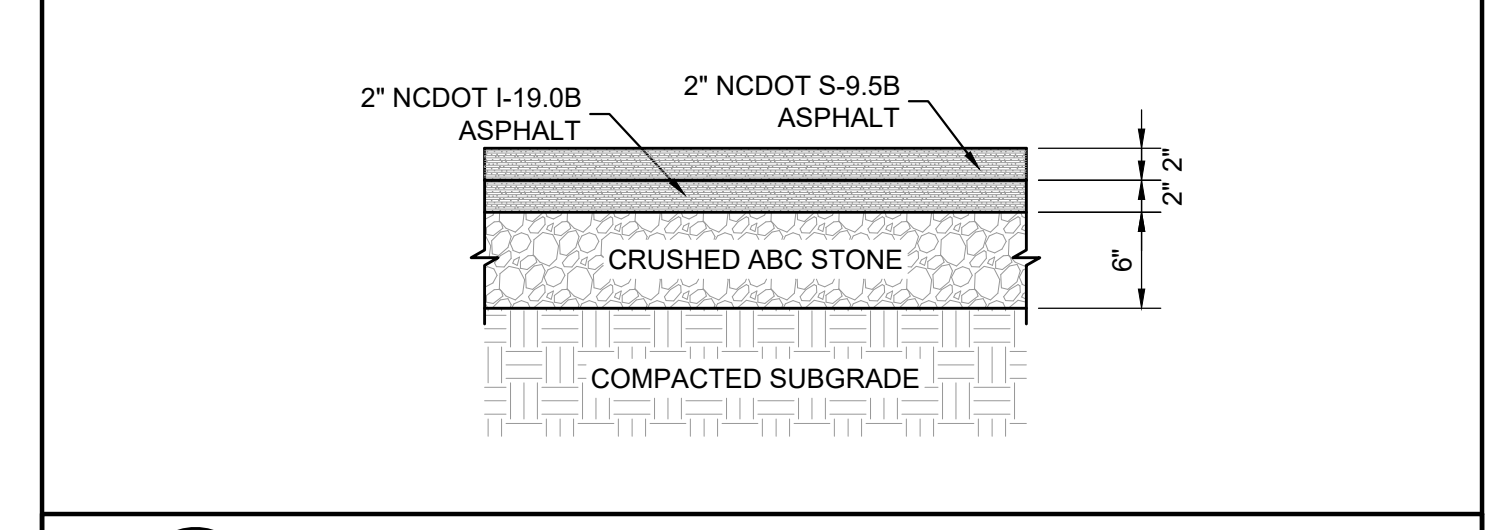
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET. A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.



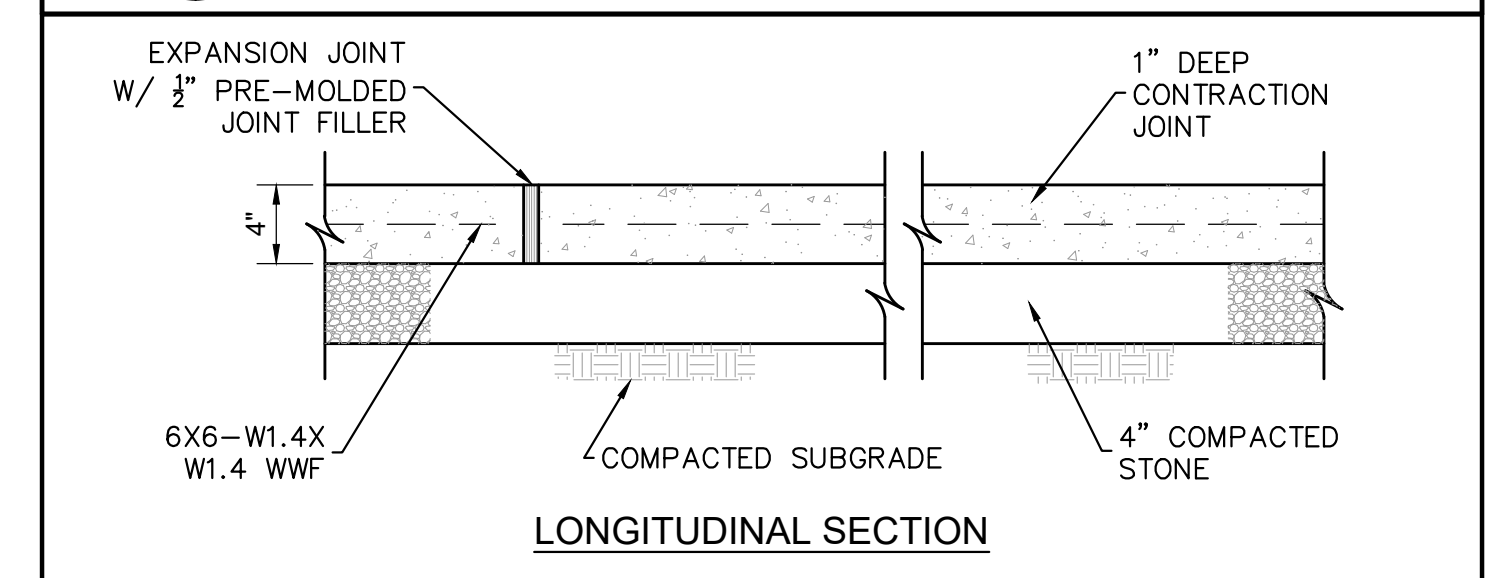
6.50 INLET PROTECTION NOT TO SCALE  
Sheet C6.0



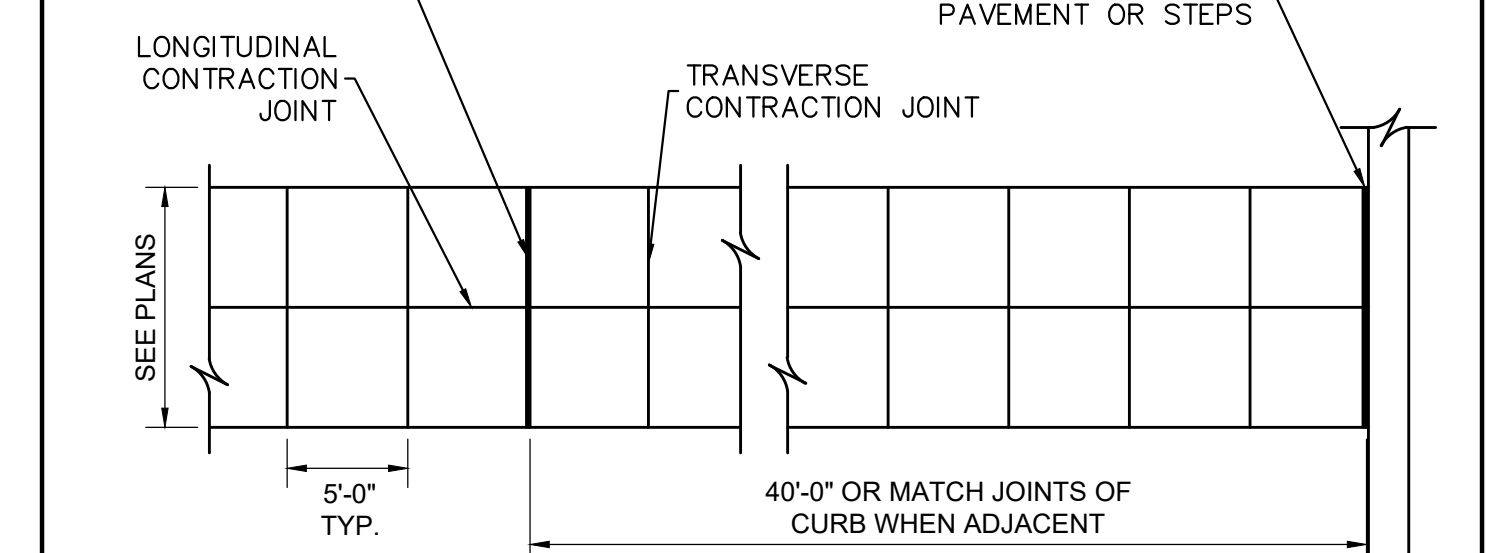
1 TREE PLANTING NOT TO SCALE  
C7.0 C6.0



2 STANDARD DUTY ASPHALT NOT TO SCALE  
C4.0 C6.0

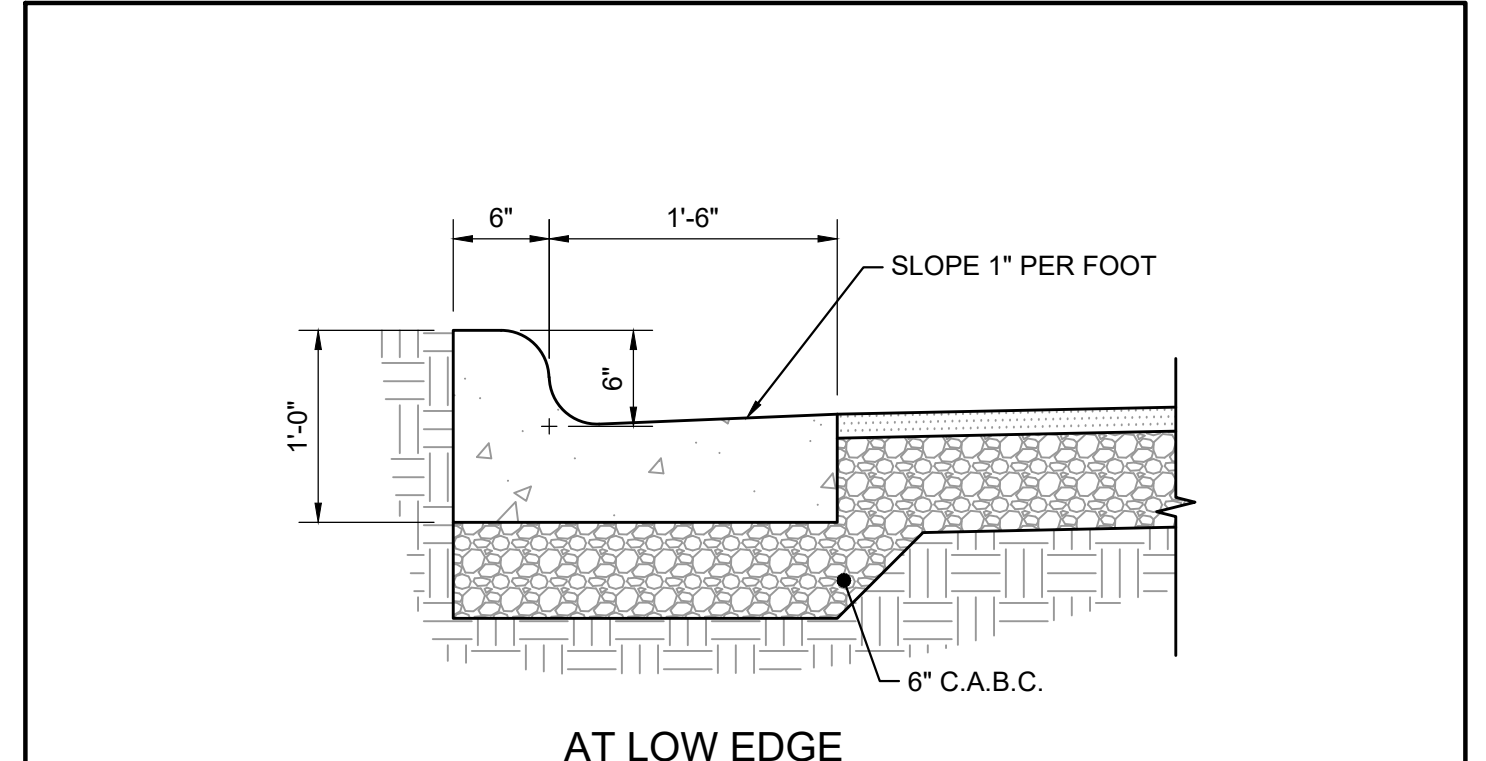


LONGITUDINAL SECTION

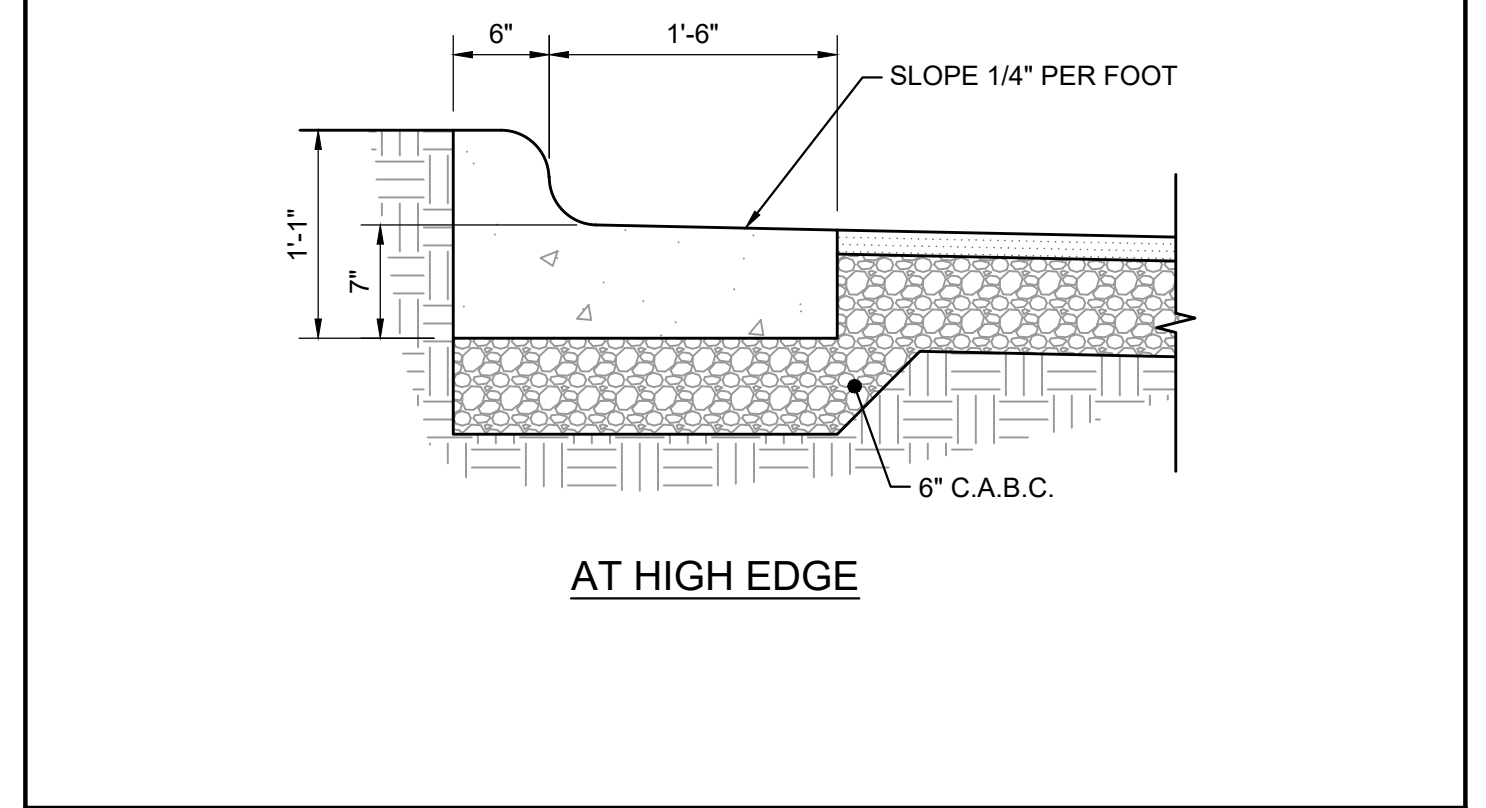


PARTIAL PLAN

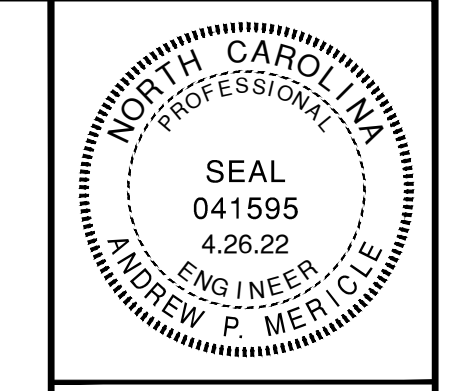
3 SIDEWALK NOT TO SCALE  
C4.0 C6.0



AT LOW EDGE



4 CONCRETE CURB AND GUTTER NOT TO SCALE  
C4.0 C6.0



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ESC & SITE DETAILS  
**LEXINGTON PLANTATION POOL**  
HARNETT COUNTY, NC

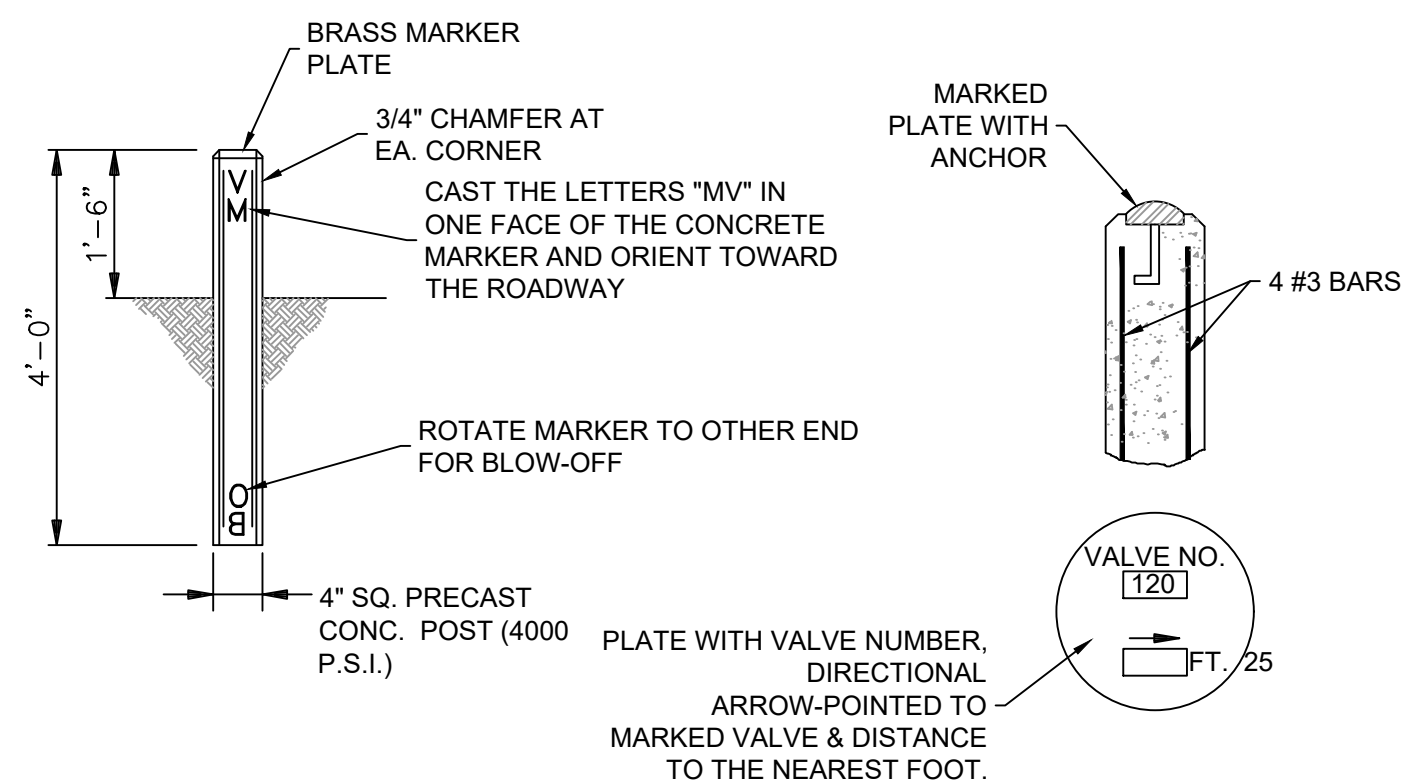
REVISIONS

DESIGNED BY: APM  
DRAWN BY: APM  
CHECKED BY: APM  
SCALE: NONE  
DATE: 4.26.22  
PROJECT NUMBER: 2101033-01

**C6.0**

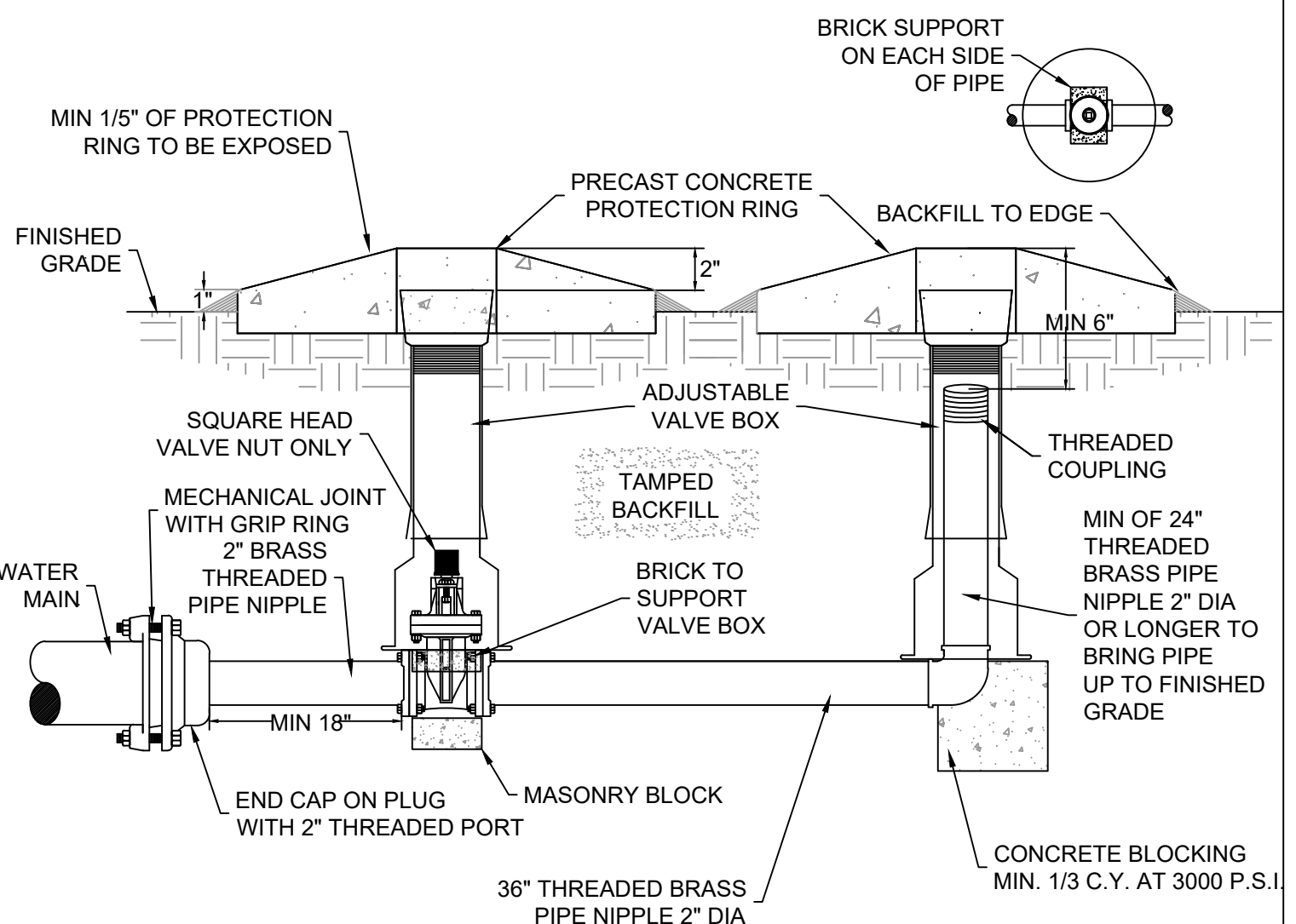
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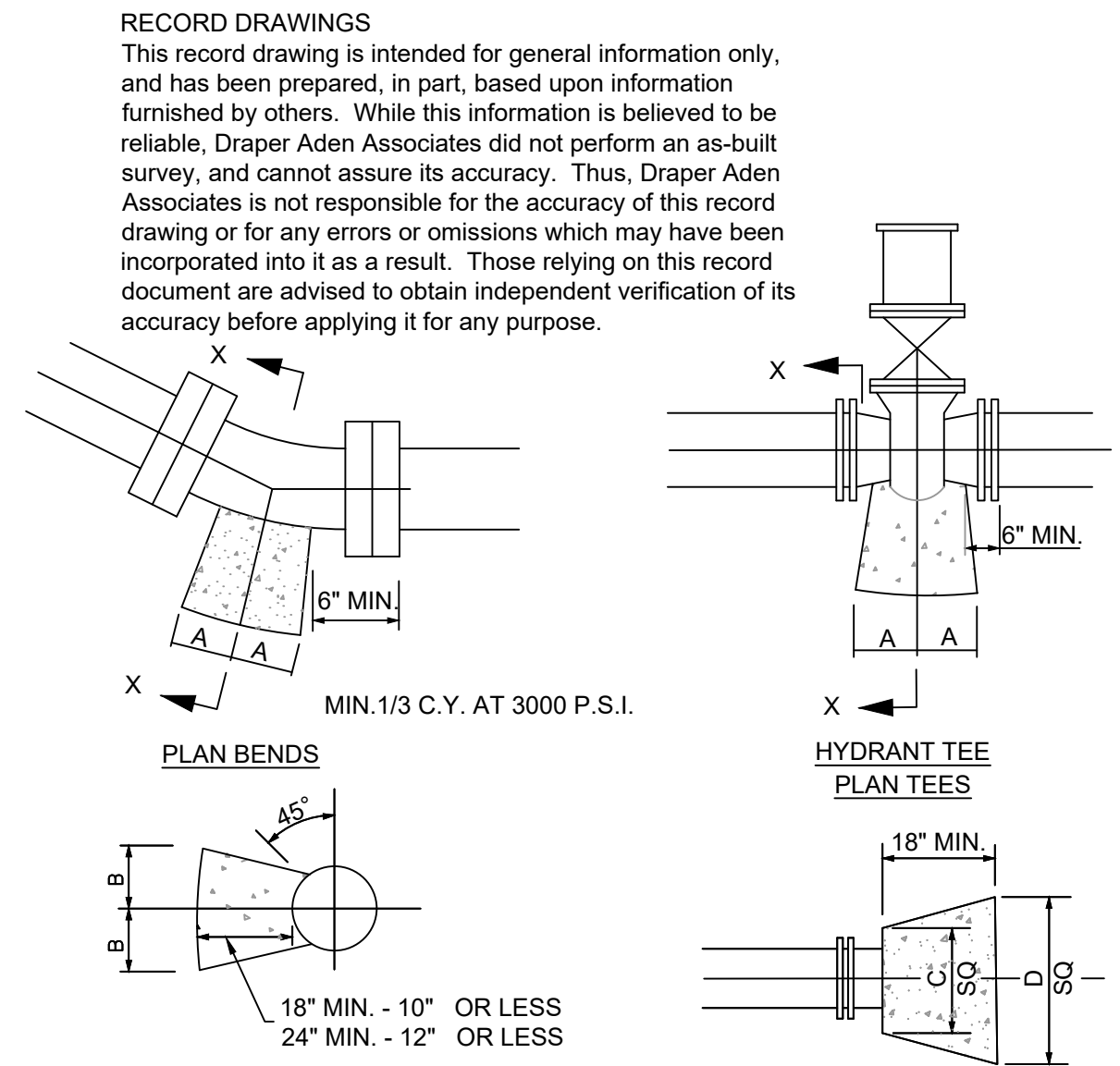
NOTES: PAINT MARKER BLUE AFTER INSTALLATION

TYPICAL VALVE MARKER DETAIL W 1  
NOT TO SCALE



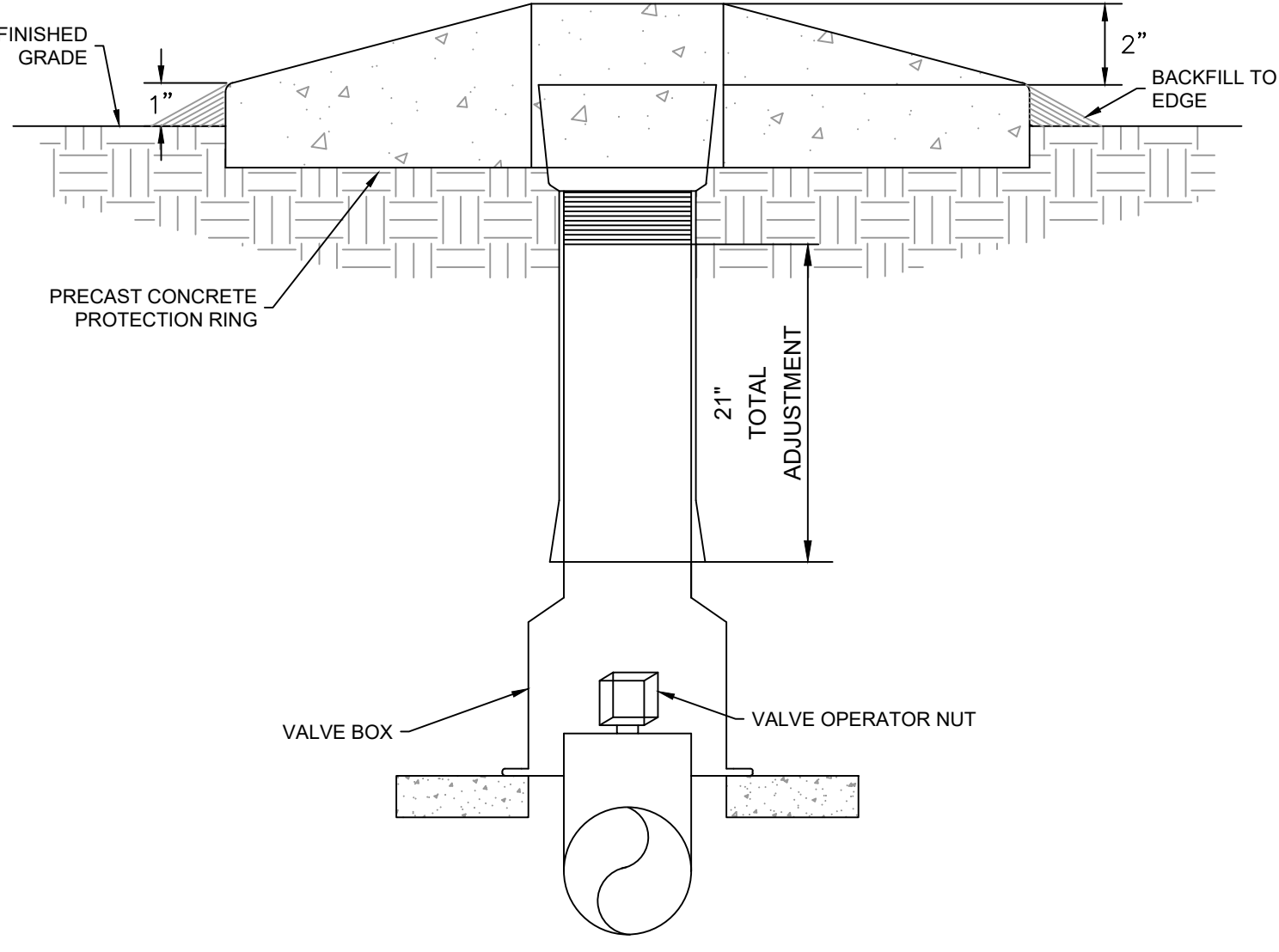
TYPICAL PERMANENT BLOW-OFF ASSEMBLY DETAIL W 4  
NOT TO SCALE

NOTES: NOTES:  
1. CONCRETE SHALL BE 3,000 PSI MIN.  
2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.  
3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.  
4. ALL PIPING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL. POLYETHYLENE PRIOR TO POURING BLOCKING.  
5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.

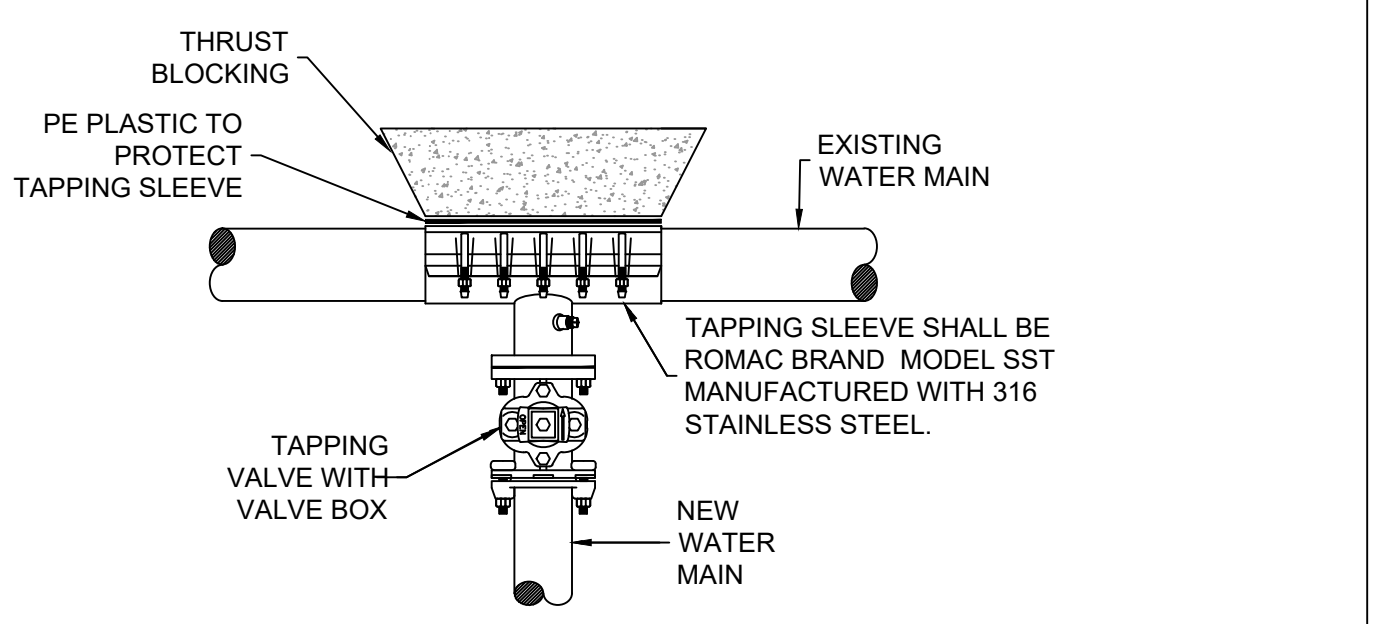


PIPE SIZE	90° BEND		45° BEND		22.5° BEND		11.25° BEND		TEE			PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D	
4"	8"	12"	8"	8"	6"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"	
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"	
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"	
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"	

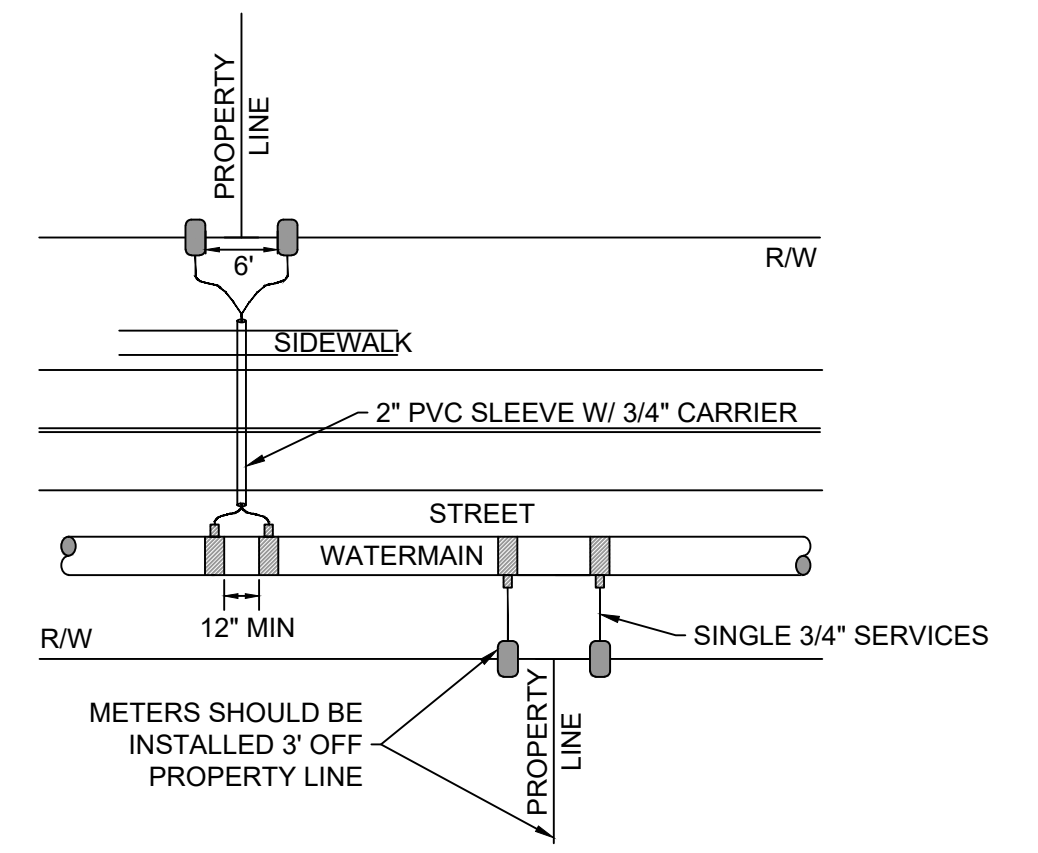
TYPICAL THRUST BLOCK DETAIL W 7  
NOT TO SCALE



TYPICAL VALVE BOX DETAIL W 2  
NOT TO SCALE

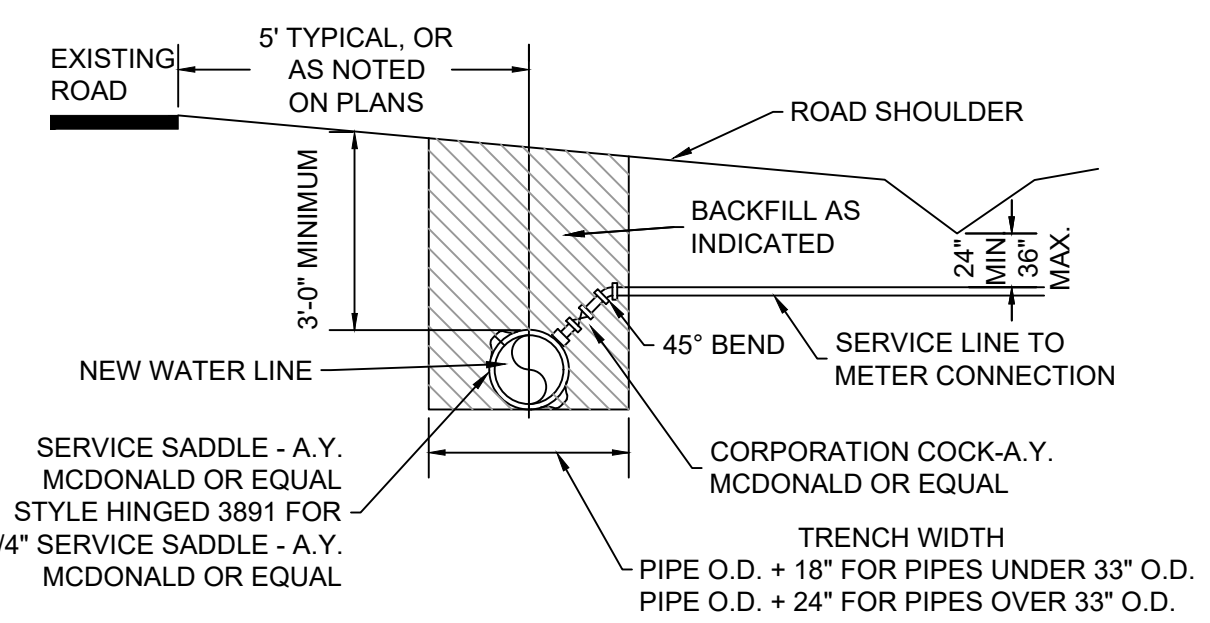


TYPICAL TAPPING SLEEVE AND VALVE ASSEMBLY DETAIL W 5  
NOT TO SCALE



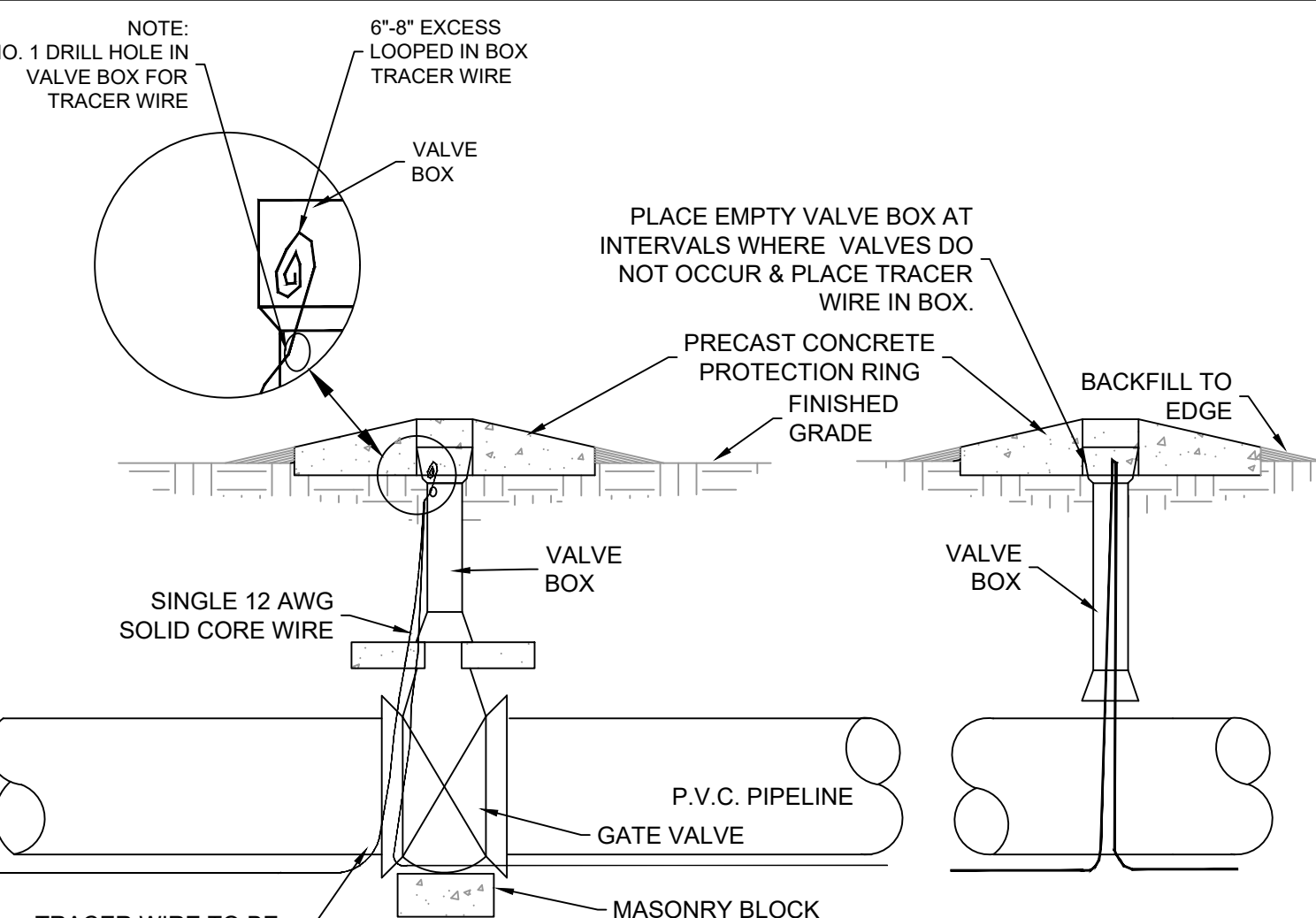
NOTES:  
1. INSTALL METER AT R/W  
2. TWO (2) 3/4" SERVICE LINES MUST BE INSTALLED INSIDE A 2" SLEEVE.  
3. TWO (2) 1" SERVICE LINES MUST BE INSTALLED INSIDE A 3" SLEEVE.  
4. SLEEVES SHOULD BE SCHEDULE 40 PVC PIPE.  
5. SEE DETAIL FOR SERVICE MATERIAL AND METER SETTING  
6. SERVICE LINE SHALL BE 3' BELOW FINISHED GRADE OF DITCHES.  
7. CONDUIT MUST EXTEND PAST PREPOSED SIDEWALK.

TYPICAL DOMESTIC WATER SERVICE INSTALLATION DETAIL W 12  
NOT TO SCALE

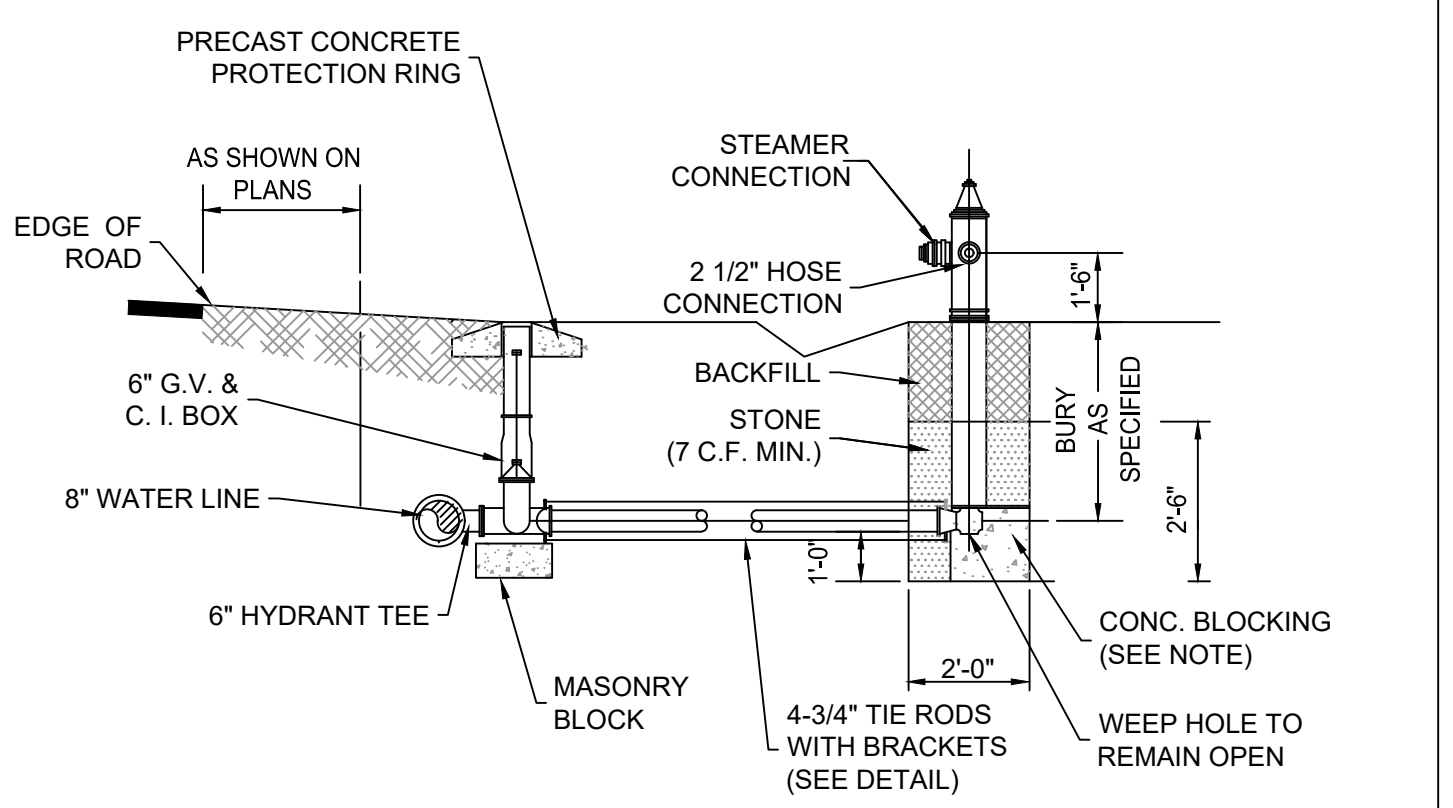


NOTE:  
1. "SERVICE CONNECTION" IN PROPOSAL TO INCLUDE SERVICE SADDLE, 45° BEND, CORPORATION COCK AND ALL LABOR INVOLVED IN MAKING A COMPLETE SERVICE CONNECTION.  
2. SERVICE PIPING TO BE 3/4" SDR-9 PE TUBING  
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE

TYPICAL WATER SERVICE CONNECTION USING TAPPING SADDLE DETAIL W 13  
NOT TO SCALE

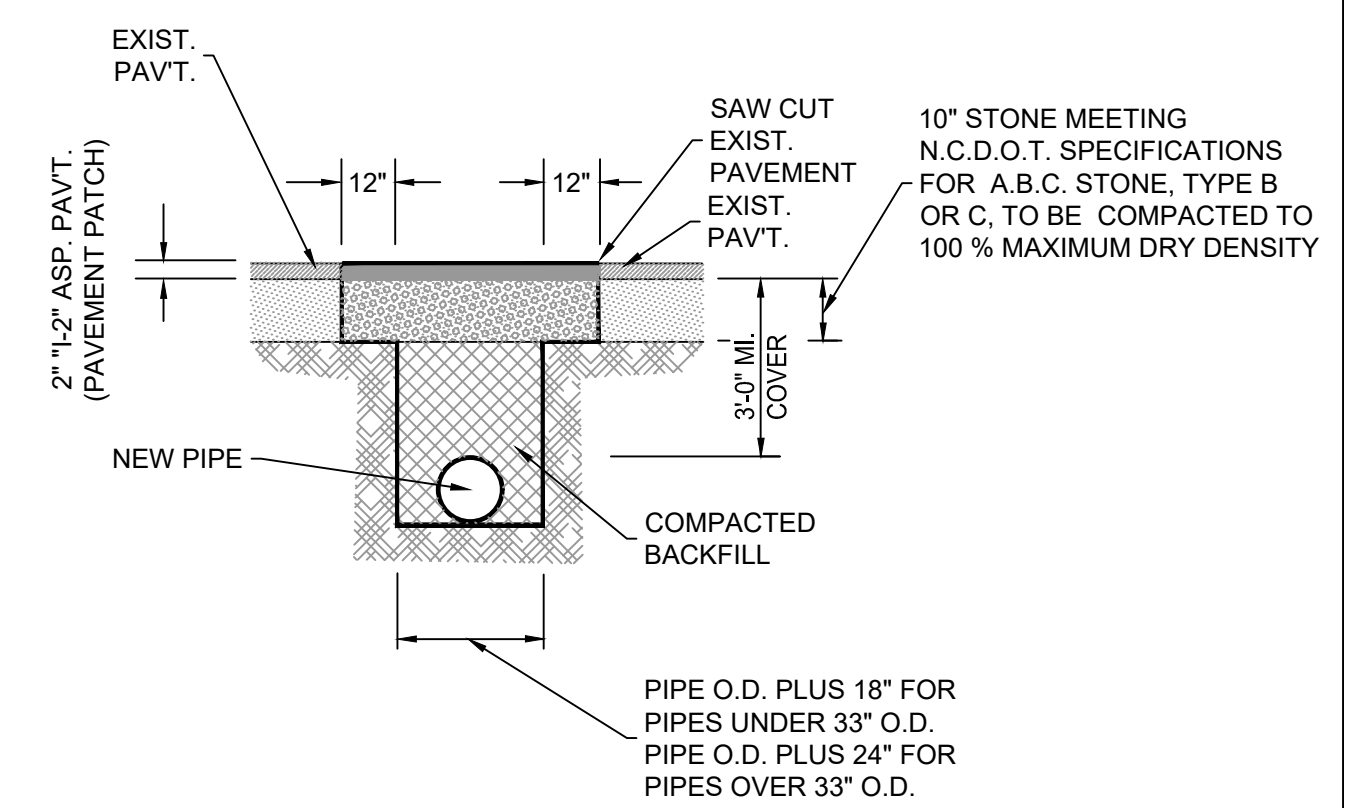


TYPICAL TRACER WIRE INSTALLATION DETAIL W 3  
NOT TO SCALE



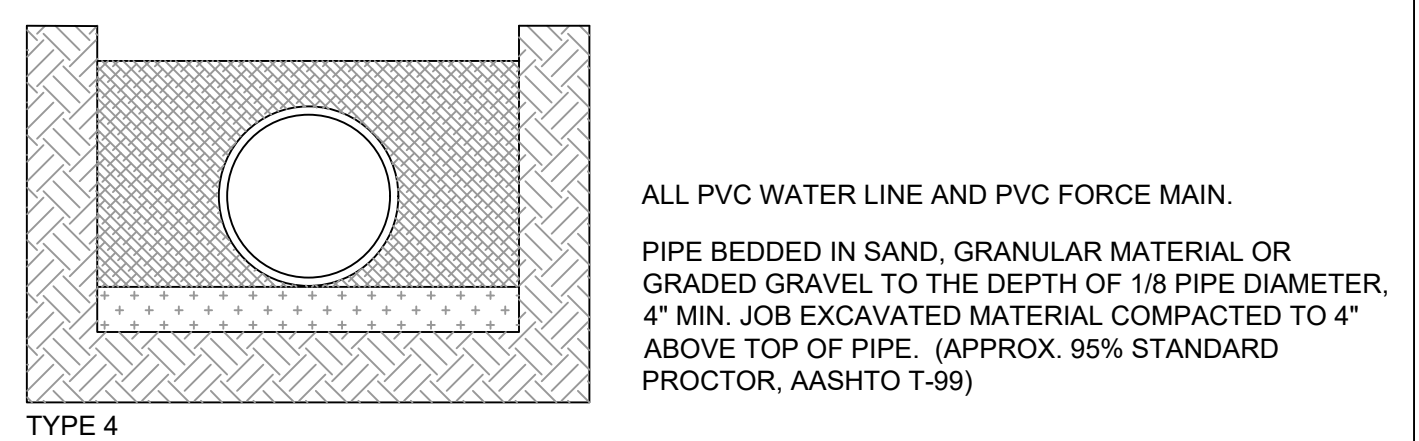
NOTE:  
1. TIE HYDRANT TO MAIN LINE W/TIE RODS IN LIEU OF CONC. BLOCKING IN SANDY SOIL.  
2. MECHANICAL JOINTS USED WITH GRIP RINGS

TYPICAL HYDRANT INSTALLATION DETAIL W 6  
NOT TO SCALE

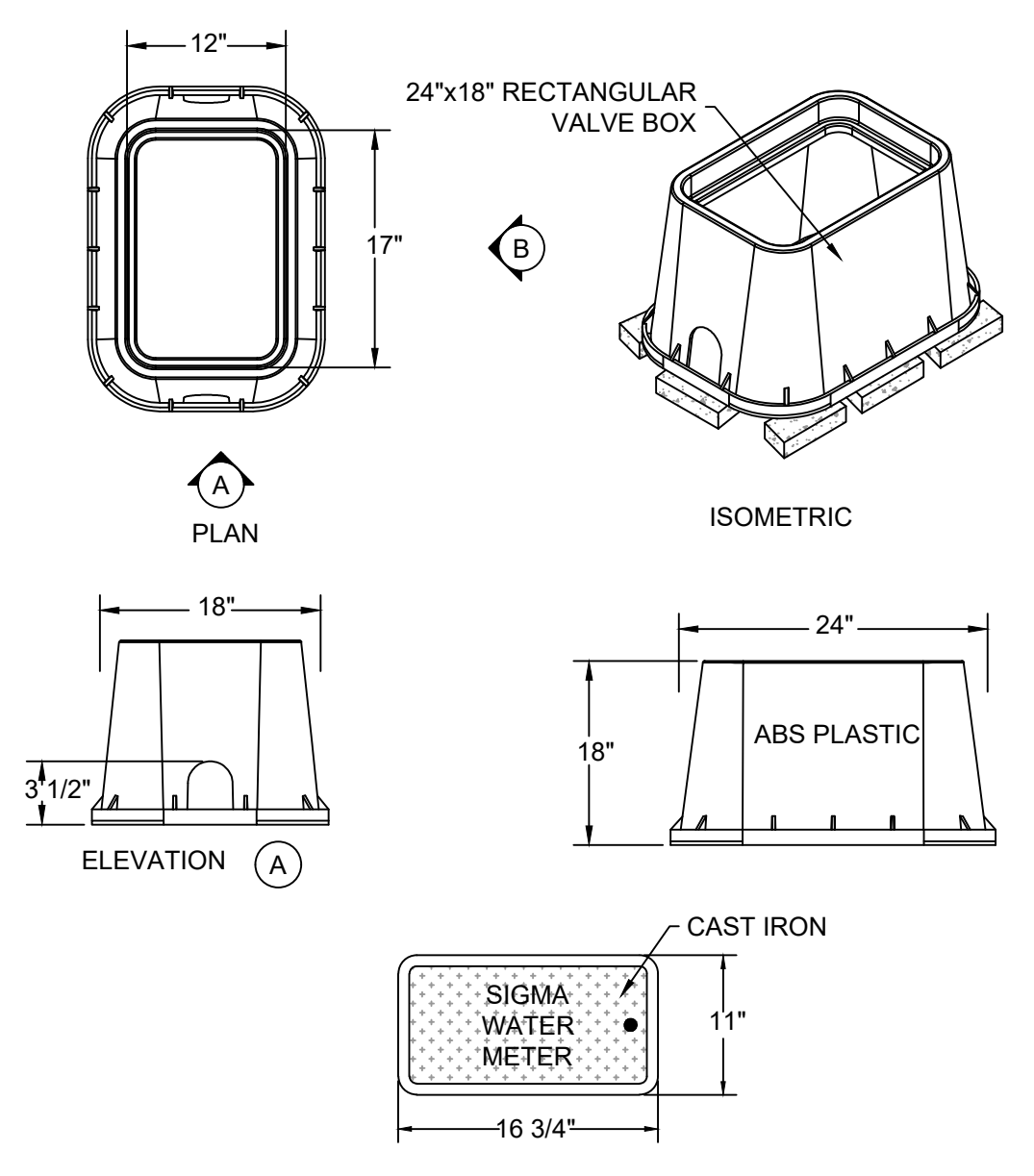


NOTES:  
1. PAVEMENT SHALL BE CUT TO TRUE LINE AND REMOVED BEFORE TRENCH IS CUT.  
2. STONE AND PAVEMENT TO BE PLACED WITH LEAST INTERFERENCE TO TRAFFIC.  
3. STABILIZED AGGREGATE TO BE SECURED FROM AN APPROVED QUARRY.  
4. ALL PAVEMENT REPAIRS TO BE IN ACCORDANCE WITH N.C.D.O.T. SPECIFICATIONS.

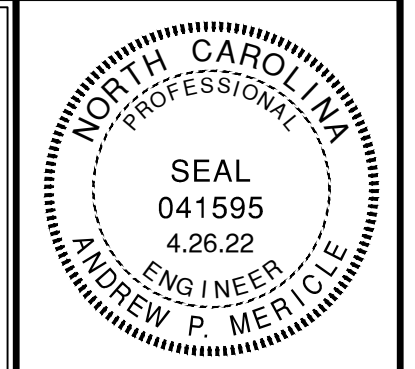
TYPICAL TRENCH IN BITUMINOUS SURFACE AREAS DETAIL W 10  
NOT TO SCALE



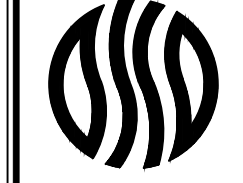
TYPICAL LAYING CONDITIONS DETAIL W 11  
NOT TO SCALE



METER BOX DETAIL FOR 3/4" SERVICE W 15  
NOT TO SCALE



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HRW DETAILS  
**LEXINGTON PLANTATION POOL**  
HARNETT COUNTY, NC

REVISIONS

DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
SCALE: NONE  
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