

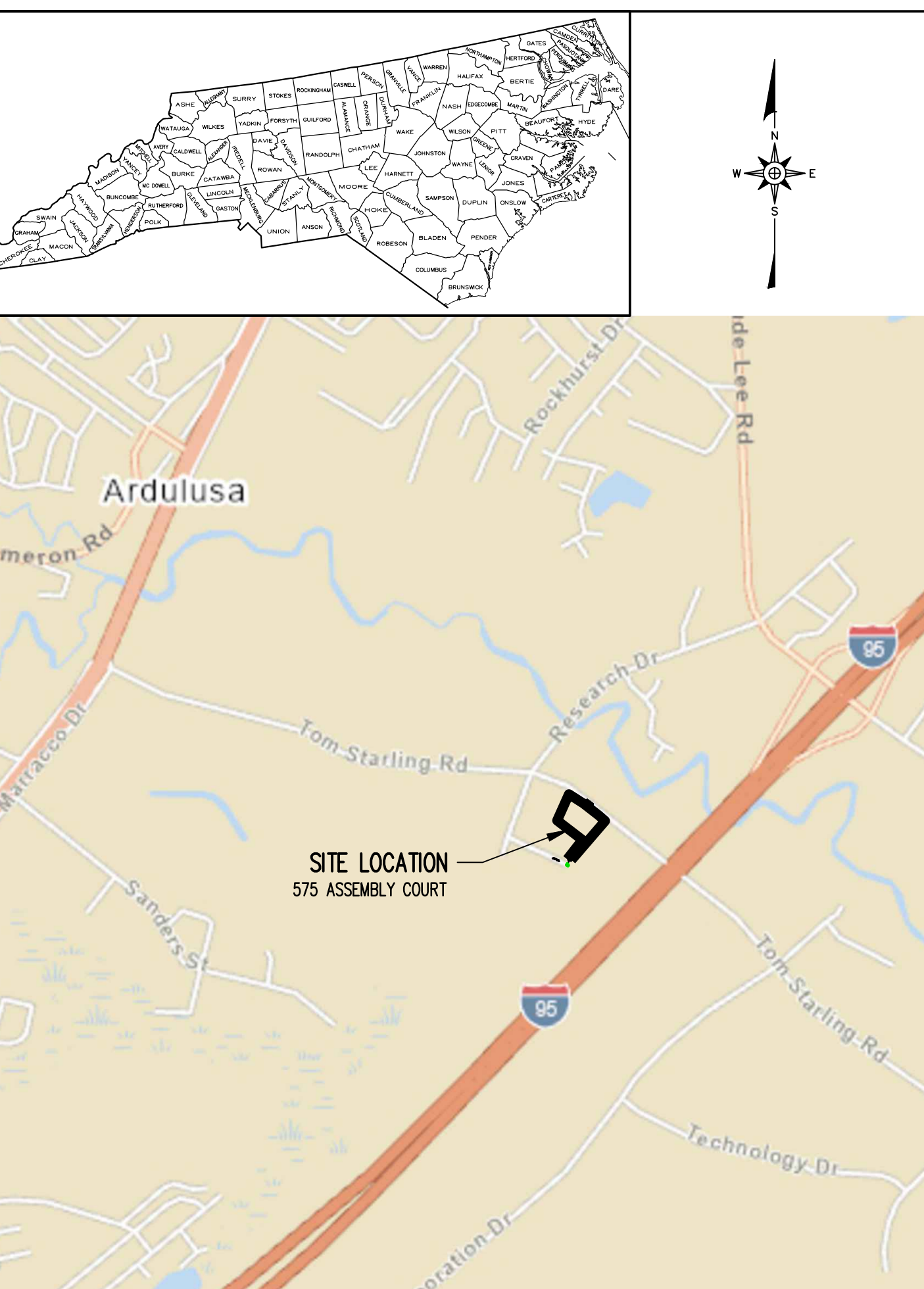


CUMBERLAND COUNTY, NORTH CAROLINA  
CUMBERLAND COUNTY SOLID WASTE MANAGEMENT DEPARTMENT

# ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER CONVENIENCE CENTER & RECYCLING FACILITY

## CONSTRUCTION DRAWINGS

MARCH 2025



SITE LOCATION MAP  
NOT TO SCALE

SHEET NO.	DRAWING NO.	DRAWING TITLE	REVISION NO.
1	--	TITLE - COVER SHEET	1 2 3 4 5
2	S1	EXISTING CONDITIONS	1 2 3 5
3	S2	SITE PLAN	1 2 3 5
4	P1	SEWER UTILITY PROFILE	1 2 3 4 5
5	P2	WATER UTILITY PROFILE	1 2 3 5
6	D1	SITE DETAILS	1 2 3 5
7	D2	UTILITY DETAILS (SHEET 1 OF 4)	1 2 3 5
8	D3	UTILITY DETAILS (SHEET 2 OF 4)	1 2 3 5
9	D4	UTILITY DETAILS (SHEET 3 OF 4)	1 2 3 5
10	D5	UTILITY DETAILS (SHEET 4 OF 4)	1 2 3 5
11	EC1	EROSION & SEDIMENTATION CONTROL DETAILS (SHEET 1 OF 2)	2 3 4 5
12	EC2	EROSION & SEDIMENTATION CONTROL DETAILS (SHEET 2 OF 2)	2 3 5
13	NCG01	GROUND STABILIZATION AND MATERIALS HANDLING (NCDEQ)	2 3 5
14	NCG02	SELF-INSPECTION, RECORDKEEPING, AND REPORTING (NCDEQ)	2 3 5

DEVELOPMENT NAME: ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER  
OWNER: CUMBERLAND COUNTY, NORTH CAROLINA  
ZONING: M(P)  
SITE ACREAGE: 3.81 ACRES  
PROPOSED BUILDING SQUARE FOOTAGE: 327 SF

PROPOSED USE: CONVENIENCE CONTAINER AND RECYCLING FACILITY.

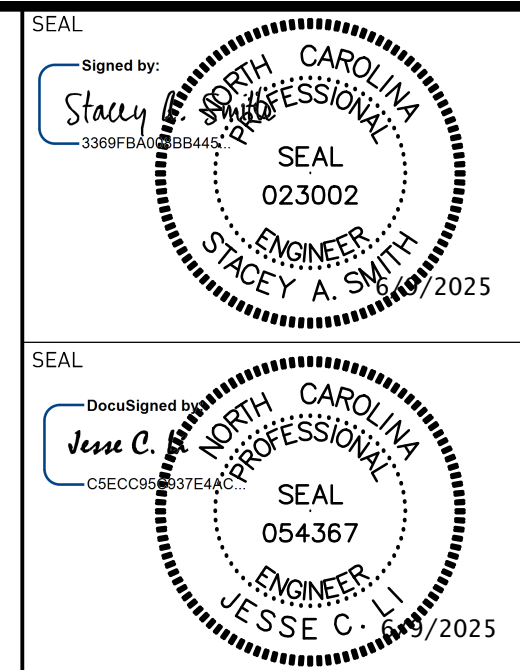
DESCRIPTION: A COUNTY-OWNED, -LEASED OR -OPERATED SITE, GENERALLY TWO ACRES OR LESS IN SIZE, SERVING THE SURROUNDING COMMUNITY FOR THE TEMPORARY COLLECTION, STORAGE AND TRANSFERENCE OF SOLID WASTE, YARD WASTE AND RECYCLABLES. INDICATE A TABULATION OF THE TOTAL SQUARE FOOTAGE OF THE PROPERTY TO BE DEVELOPED, SHOWING WHAT PERCENTAGE AND NUMBER OF SQUARE FEET IS PROPOSED TO BE DEVOTED TO USES, INCLUDING OFF-STREET PARKING OR LOADING AREAS, OPEN OR LANDSCAPED AREAS AND OTHER MAJOR USES.

**FOR BIDDING**  
**NOT FOR CONSTRUCTION**

NC LIC. NO. F-1370 (ENGINEERING)  
SC COA NO. C01488

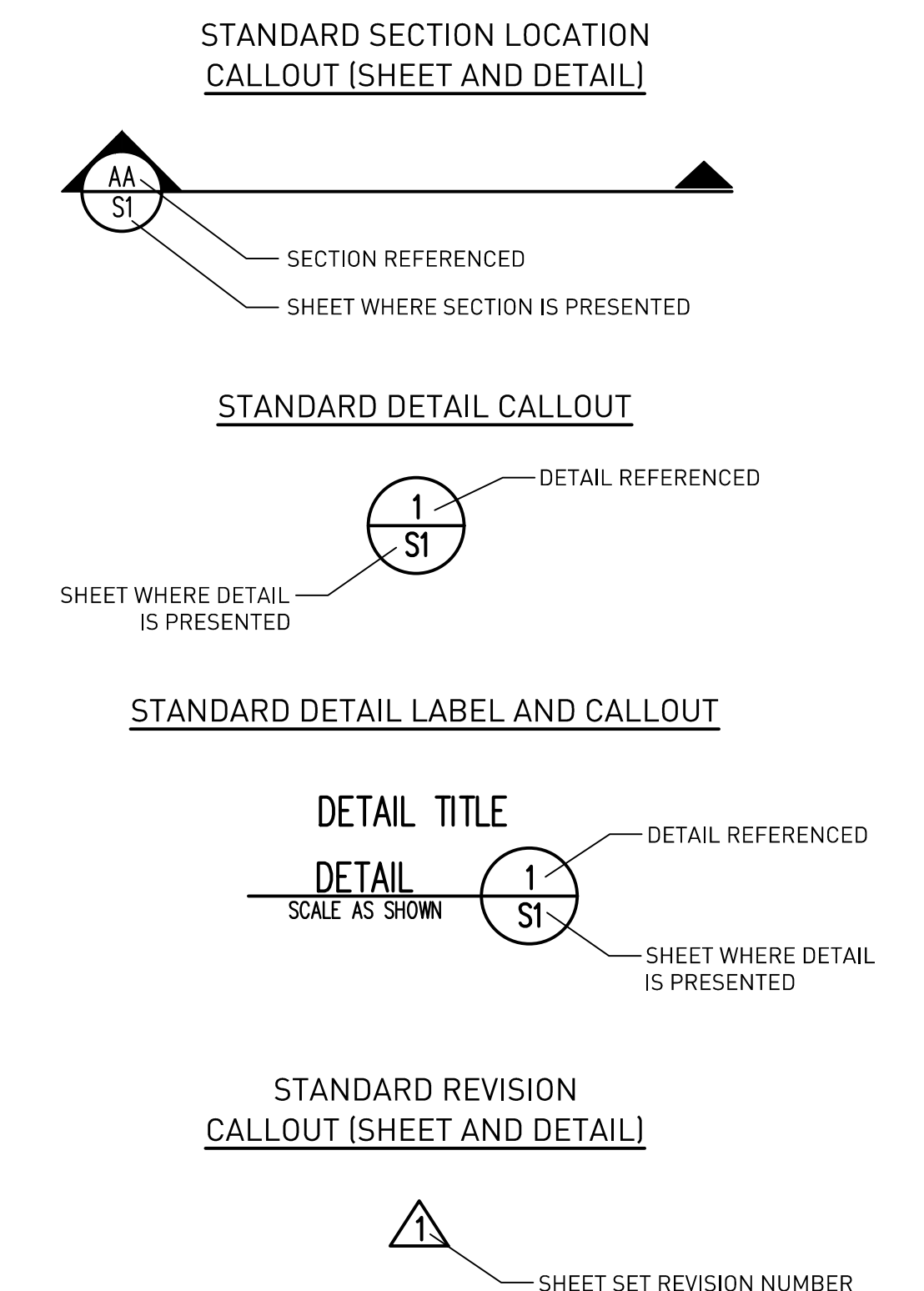
# SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
4	5/25	RE-BID ADDENDUM 1
5	6/25	RE-BID

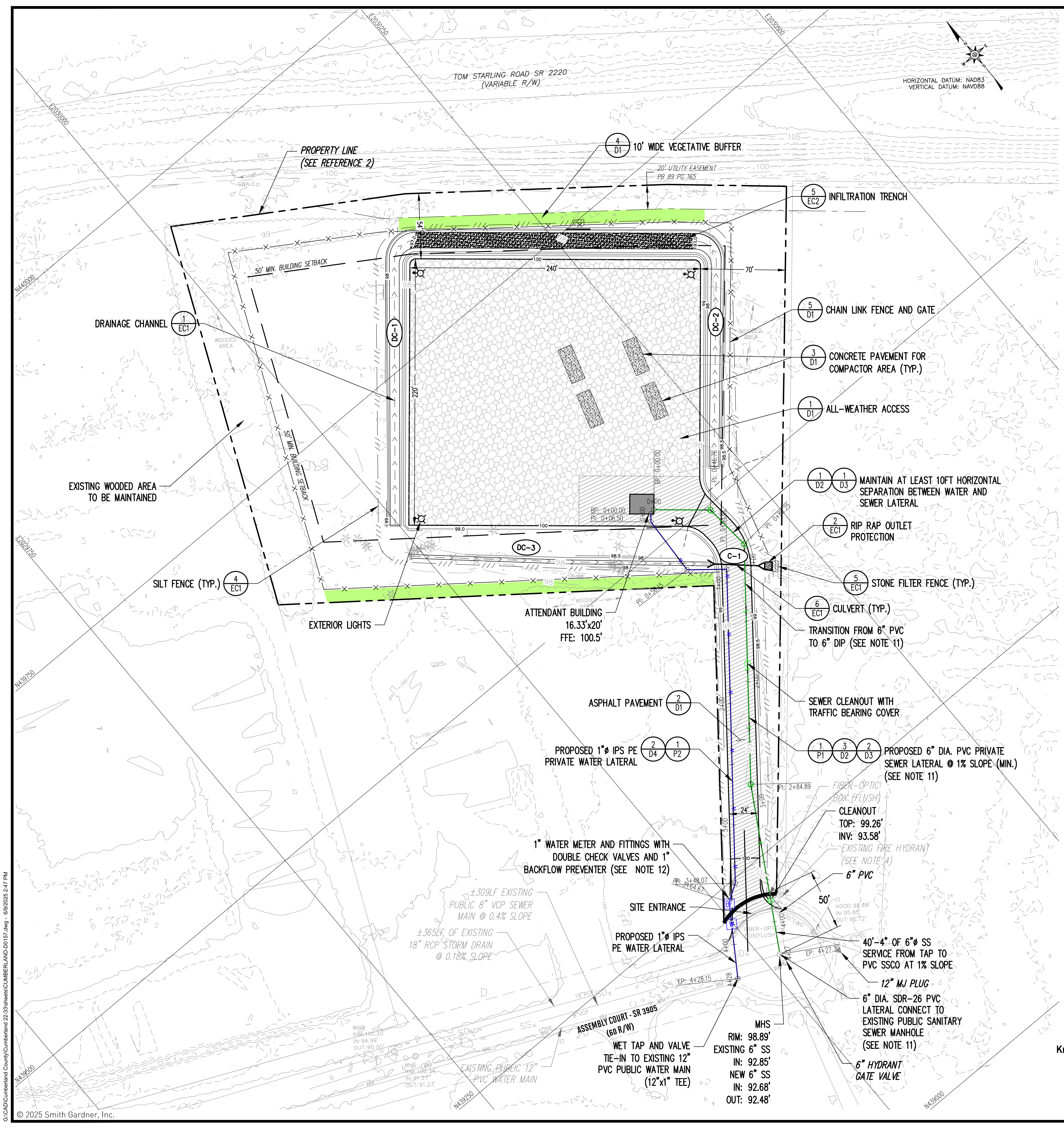
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**SAFETY NOTE:**  
Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.







**LEGEND**

- EXISTING 10' CONTOUR (SEE REFERENCE 1)
- EXISTING 2' CONTOUR (SEE REFERENCE 1)
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- EXISTING PROPERTY LINES (SEE REFERENCE 2)
- APPROXIMATE EASEMENT/R.O.W. (SEE REFERENCE 2)
- BUILDING SETBACK
- CHAIN LINK FENCE
- PROPOSED WATER LINE
- PROPOSED SEWER
- SANITARY SEWER
- STORM DRAIN
- OVERHEAD ELECTRIC
- UNDERGROUND GAS
- RIGHT OF WAY
- DITCH/SWALE (APPROXIMATE)
- PROPOSED CULVERT
- DRAINAGE CHANNEL
- 10-FT VEGETATIVE BUFFER
- AGGREGATE SURFACING
- CONCRETE PAVEMENT
- ASPHALT SURFACING
- BACKFLOW PREVENTER
- WATER METER
- SEWER CLEANOUT
- EXTERIOR LIGHTS

**PROJECT:** ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER  
**OWNER:** CUMBERLAND COUNTY, 117 DICK STREET, FAYETTEVILLE, NC 28301, PHONE: (910) 814-6156  
**ENGINEER:** SMITH GARDNER, INC., 14 N. BOYLAN AVE., RALEIGH, NC 27603, PHONE: (919) 828-0577

**SITE DATA:**  
 REID: 0433091645000  
 PIN: 0433-09-1645  
 DEED BOOK 2927, PAGE 153  
 RECORDED: JULY 01, 1984  
 ZONED: MIPJ  
 CURRENT LAND USE CLASSIFICATION: CUMBERLAND INDUSTRIAL CENTER, RECYCLING COLLECTION CENTERS & SOLID WASTE CONTAINER SITES (MANNED)  
 PROPOSED LAND USE CLASSIFICATION: ROCKFISH TOWNSHIP, CUMBERLAND COUNTY, NORTH CAROLINA

**THIS PROJECT IS NOT LOCATED IN THE 100-YEAR FLOOD PLAIN**  
 FIRM PANEL #3720042300J & FIRM PANEL #3720043300J, EFFECTIVE DATE: JAN. 5, 2007  
 ZONE: MPI

**OPERATING HOURS:** 7:30 AM - 5:30 PM M-SAT

**SETBACKS REQUIRED:**  
 FRONT 100 FT  
 SIDE 50 FT  
 REAR 50 FT

**REFERENCES**

- EXISTING TOPOGRAPHY PROVIDED BY JOYNER KEENE TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021 WITH SUPPLEMENTAL TOPOGRAPHY PROVIDED BY NORTH CAROLINA SPATIAL DATA 2014 LIDAR.
- PROPERTY LINE, EASEMENTS, AND SITE UTILITIES PROVIDED BY JOYNER KEENE TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021.
- EXISTING WATER AND SEWER INFORMATION FROM DRAWING SET ENTITLED "CUMBERLAND INDUSTRIAL CENTER - GRADING, PAVING, DRAINAGE & UTILITY IMPROVEMENTS PHASE VIII (ASSEMBLY COURT)" BY MOORMAN, KIZER & REITZEL, INC. DATED AUG. 22, 1995.

**NOTES**

- EXISTING UTILITIES TO BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONSTRUCTION WILL NOT COMMENCE UNTIL ALL NECESSARY NCDOT AND FAYETTEVILLE PWC PERMITS HAVE BEEN OBTAINED FOR THE PROJECT.
- VEGETATIVE BUFFER:
  - A VEGETATIVE BUFFER SHALL BE A MINIMUM OF THREE FEET IN HEIGHT AT TIME OF PLANTING TO REACH A HEIGHT OF SIX FEET WITHIN THREE CALENDAR YEARS;
  - SOLID NON-VEGETATIVE FENCING SHALL HAVE A MINIMUM HEIGHT OF SIX FEET;
  - BUFFER VEGETATIVE SHALL BE LOCATED BETWEEN ANY FENCE AND THE COMMON PROPERTY LINE.
- LIGHTING MUST COMPLY WITH THE CUMBERLAND COUNTY ZONING ORDINANCE, SECTION 1102 (M).
- PROPOSED FACILITY RECEIVED SITE PLAN APPROVAL (PLAN NO. DEV-0192-22) FROM CUMBERLAND COUNTY ON 8/28/2023.
- EROSION AND SEDIMENTATION CONTROL PLAN FOR SITE INCLUDING THE DRIVEWAY APPROVED BY NCDCEQ FAYETTEVILLE REGIONAL OFFICE UNDER PROJECT NUMBER CUMBE-2023-056.
- SITE HAS NPDES CONSTRUCTION STORMWATER COVERAGE UNDER PERMIT NO. NCC224091.
- LOCATION OF EXISTING UTILITIES TO BE VERIFIED IN FIELD BY THE CONTRACTOR.
- FIRE LINE IS NOT NEEDED FOR THIS PROJECT.
- PVC O&M ENDS AT METERS AND THE FIRST SSCO FROM THE MAIN OR EASEMENT LINE.
- SANITARY SEWER LATERAL TO BE 6" DIA. DIP WHERE FILL ABOVE THE LATERAL < 3'.
- ENSURE WATER METER IS OUTSIDE OF ASPHALT PAVEMENT.
- PROPOSED GRADES SHOWN REPRESENT TOP OF FINISHED GRADE OR TOP OF PAVEMENT/AGGREGATE SURFACING IN APPLICABLE AREAS.

**CUMBERLAND COUNTY  
 SOLID WASTE  
 MANAGEMENT DEPARTMENT  
 FAYETTEVILLE,  
 NORTH CAROLINA**

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)  
 SC COA NO. C01488

**SMITH+  
 GARDNER  
 ENGINEERS**

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
 1526 Richland St., Columbia SC 29201

SEAL: Stacey A. Smith, Professional Engineer, No. 33698, State of North Carolina, Seal No. 023002, Expires 12/31/2025

SEAL: Jesse C. Llesse, Professional Engineer, No. 054367, State of North Carolina, Seal No. 054367, Expires 12/31/2025

REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

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PROJECT TITLE:  
**ASSEMBLY COURT  
 SOLID WASTE  
 CONVENIENCE CENTER**

DRAWING TITLE:  
**SITE PLAN**

DESIGNED: J.C.L.	PROJECT NO: CUMBERLAND 21-8
DRAWN: J.R.G.	SCALE: AS SHOWN
APPROVED: JCL	DATE: AUG. 2022
FILENAME: CUMBERLAND-D0157	DRAWING NUMBER:
SHEET NUMBER: <b>3</b>	<b>S2</b>

**811**  
 Know what's below.  
 Call before you dig.

0 40' 80' 120'

**FOR BIDDING  
 NOT FOR CONSTRUCTION**



**FOR BIDDING**  
**NOT FOR CONSTRUCTION**

- LEGEND:**
- EXISTING GROUND SURFACE
  - PROPOSED GROUND SURFACE
  - WATER LATERAL PIPE
  - RIGHT OF WAY BOUNDARY
  - [BF] PROPOSED BACKFLOW PREVENTER
  - [M] PROPOSED WATER METER

PREPARED FOR:  
**CUMBERLAND COUNTY**  
**SOLID WASTE**  
**MANAGEMENT DEPARTMENT**  
**FAYETTEVILLE,**  
**NORTH CAROLINA**

PREPARED BY:  
NC LIC. NO. F-1370 (ENGINEERING)  
SC COA NO. C01488

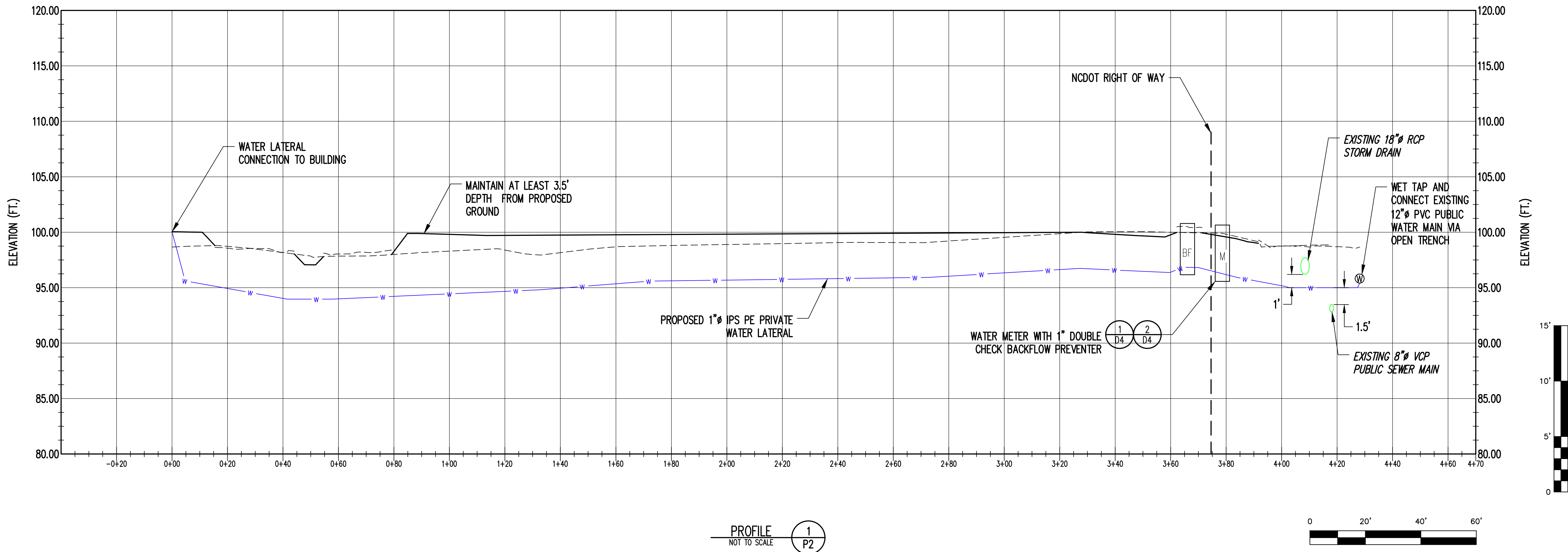
**SMITH+**  
**GARDNER**  
**ENGINEERS**  
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201

SEAL

Signed by:  
Stacy A. Smith  
Professional Engineer  
SEAL 023002  
2025

SEAL

Seal C. L. Jesse  
Professional Engineer  
SEAL 054367  
2025



PROFILE 1  
NOT TO SCALE P2



REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

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**NOTES:**

- PROPOSED FACILITY RECEIVED SITE PLAN APPROVAL (PLAN NO. DEV-0192-22) FROM CUMBERLAND COUNTY ON 8/28/2023.
- EROSION AND SEDIMENTATION CONTROL PLAN FOR SITE INCLUDING THE DRIVEWAY APPROVED BY NCDEQ FAYETTEVILLE REGIONAL OFFICE UNDER PROJECT NUMBER CUMBE-2023-056.
- SITE HAS NPDES CONSTRUCTION STORMWATER COVERAGE UNDER PERMIT NO. NCC224091.
- FLOW TEST FOR FIRE HYDRANT 005875 COMPLETED ON 11/17/23.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- FIRE LINE IS NOT NEEDED FOR THIS PROJECT.
- PWC O&M ENDS AT METERS AND THE FIRST SSC FROM THE MAIN OR EASEMENT LINE.

**REFERENCES**

- EXISTING TOPOGRAPHY PROVIDED BY JOYNER KEENEY TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021 WITH SUPPLEMENTAL TOPOGRAPHY PROVIDED BY NORTH CAROLINA SPATIAL DATA 2014 LIDAR.
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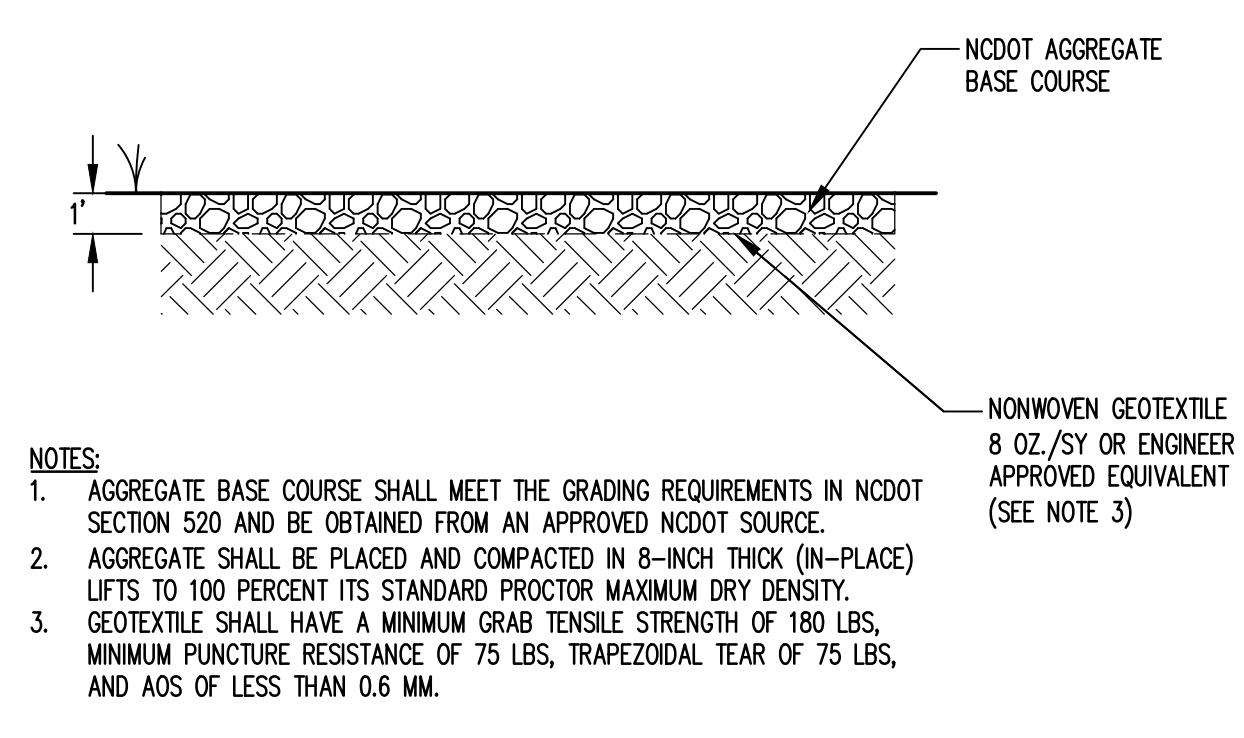
PROJECT TITLE:  
**ASSEMBLY COURT**  
**SOLID WASTE**  
**CONVENIENCE CENTER**

DRAWING TITLE:  
**WATER UTILITY PROFILE**

DESIGNED: J.C.L.	PROJECT NO: CUMBERLAND 21-8
DRAWN: J.B.G.	SCALE: AS SHOWN
APPROVED: JCL	DATE: AUG, 2022
FILENAME: CUMBERLAND-D0157	DRAWING NUMBER: 5 P2

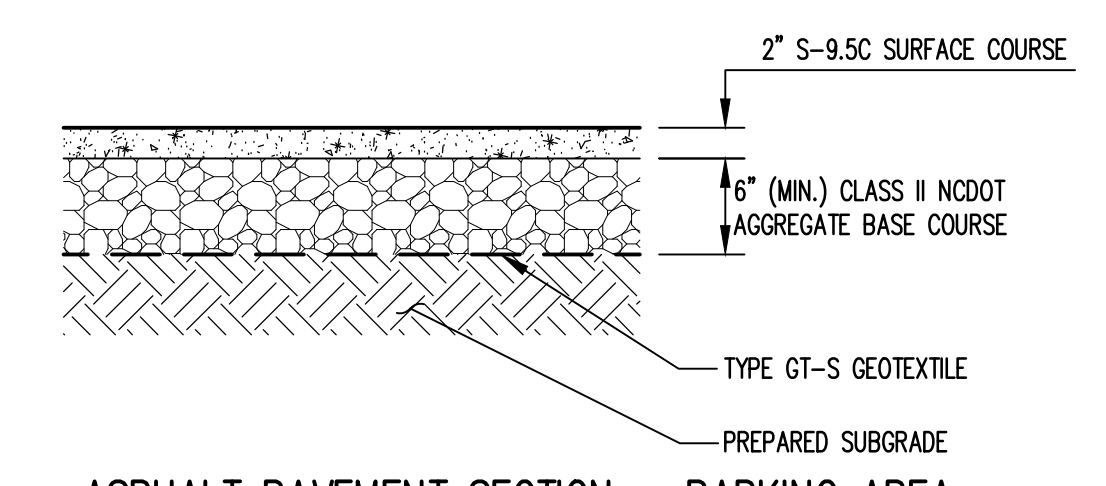


**Know what's below.**  
**Call before you dig.**

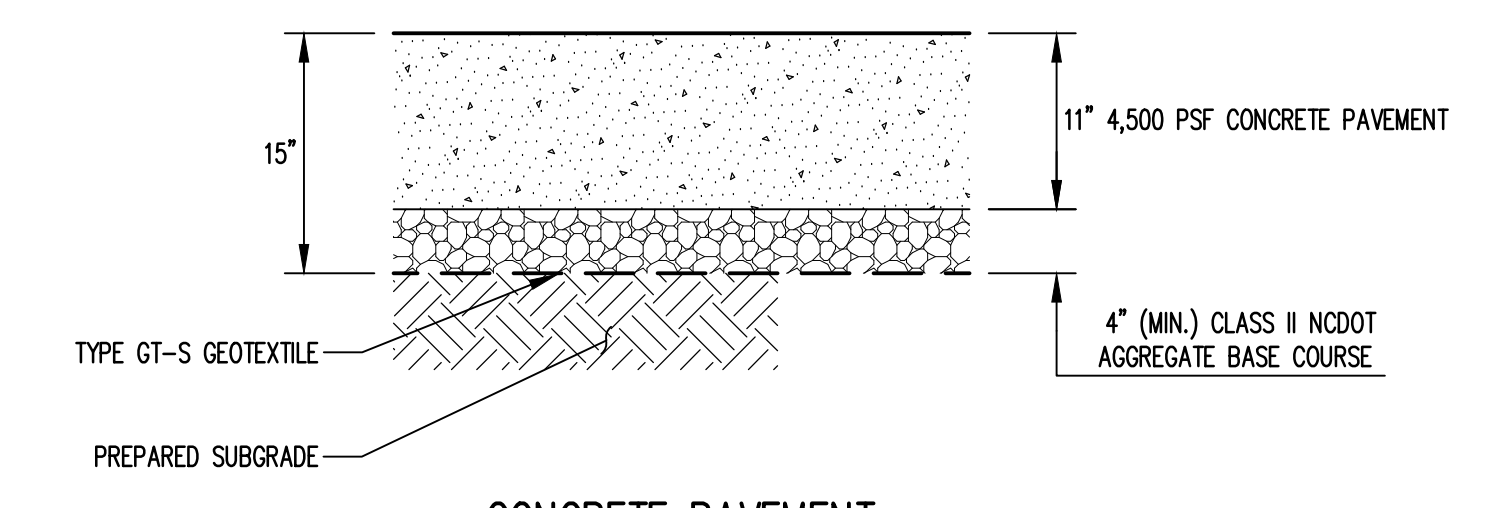


- NOTES:**
1. AGGREGATE BASE COURSE SHALL MEET THE GRADING REQUIREMENTS IN NCDOT SECTION 520 AND BE OBTAINED FROM AN APPROVED NCDOT SOURCE.
  2. AGGREGATE SHALL BE PLACED AND COMPACTED IN 8-INCH THICK (N-PLACE) LIFTS TO 100 PERCENT ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
  3. GEOTEXTILE SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 180 LBS, MINIMUM PUNCTURE RESISTANCE OF 75 LBS, TRAPEZOIDAL TEAR OF 75 LBS, AND AOS OF LESS THAN 0.6 MM.

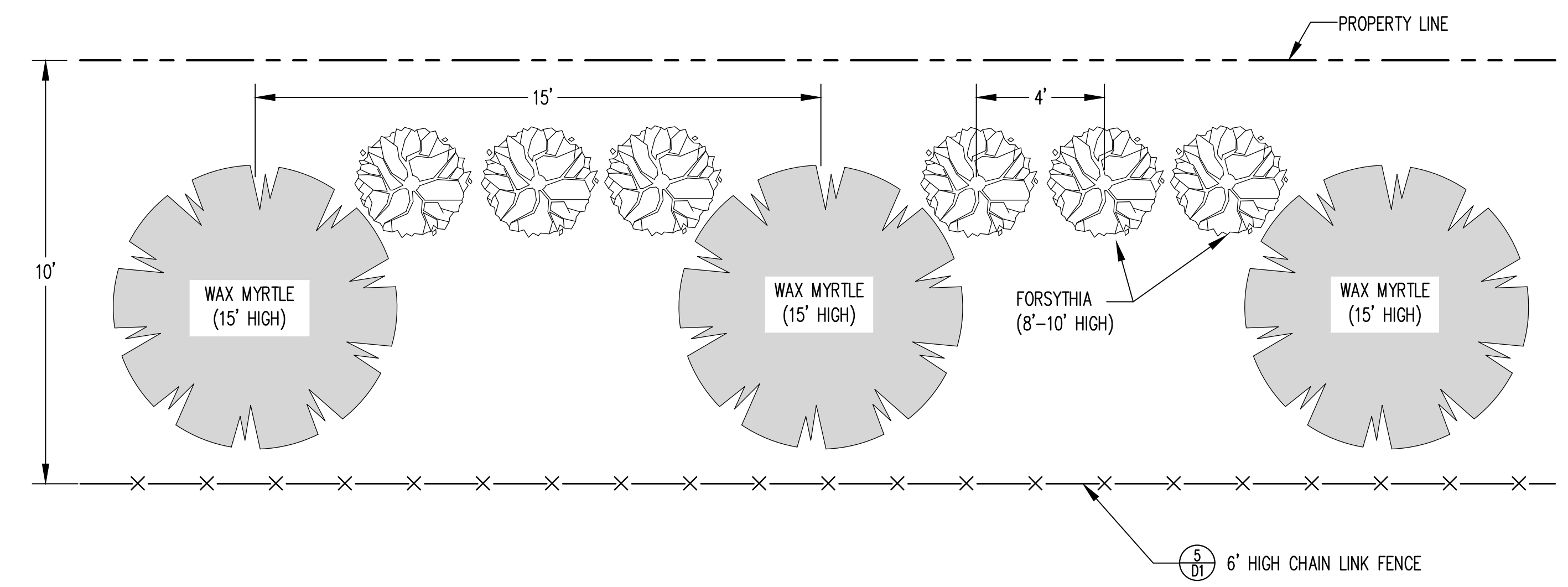
**ALL-WEATHER ACCESS**  
 DETAIL 1  
 NOT TO SCALE (D1)



**ASPHALT PAVEMENT SECTION - PARKING AREA**  
 DETAIL 2  
 NOT TO SCALE (D1)



**CONCRETE PAVEMENT**  
 DETAIL 3  
 NOT TO SCALE (D1)



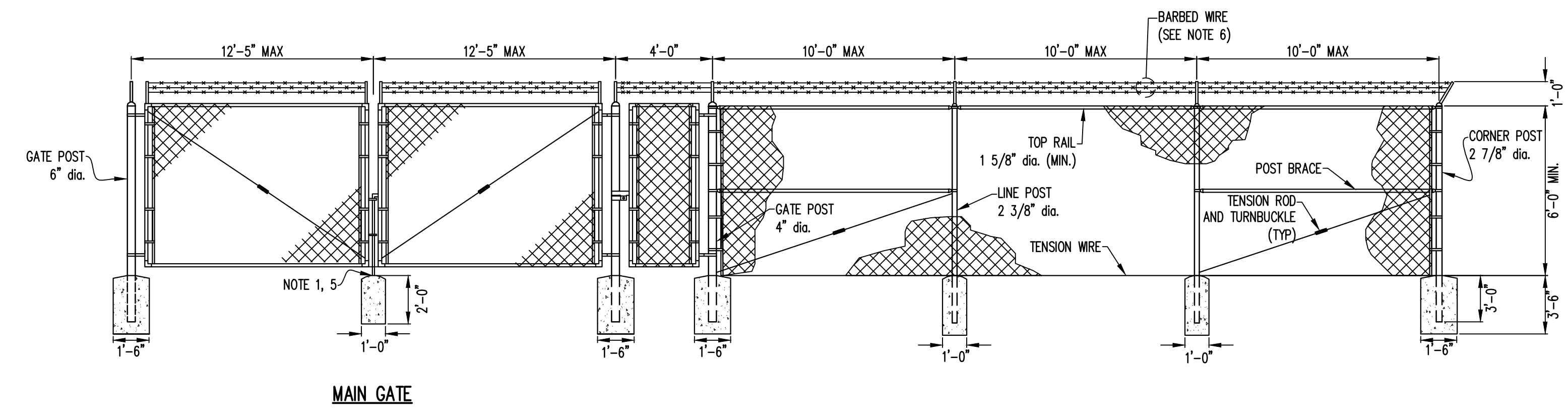
**VEGETATIVE BUFFER**  
 DETAIL 4  
 NOT TO SCALE (D1)



**WAX MYRTLE**



**FORSYTHIA**

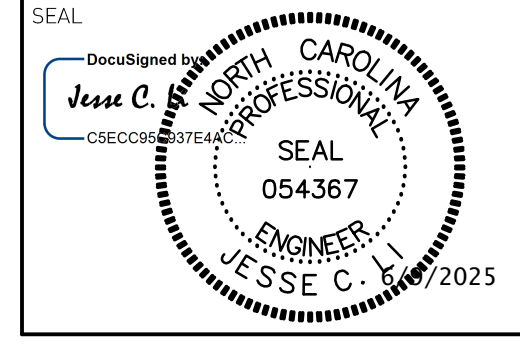
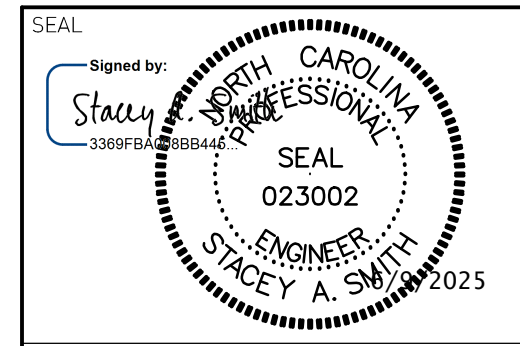


**CHAIN LINK FENCE AND GATES**  
 DETAIL 5  
 NOT TO SCALE (D1)

- NOTES:**
1. APPLY 1" (MINIMUM) CROWN ABOVE GRADE SURFACE.
  2. INSTALL PREFABRICATED METAL CAP WITH LOCKING GROOVE. VERTICAL PIPE EMBEDDED IN CONCRETE WILL NOT BE ACCEPTED.
  3. ALL POLES TO BE COATED WITH AMERCOAT 235 (FORMERLY BAR-RUST 235) TO A MIN. OF 6" ABOVE FINAL GRADE. NOTE: BITUMASTIC 50 COAL TAR EPOXY MAY BE SUBSTITUTED.
  4. CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS OF NESC C2-2007 FOR SEVEN FEET OF OVERALL HEIGHT.
  5. WASHED STONE WILL NOT BE IN PLACE AT THE TIME OF FENCE INSTALLATION. FENCE CONTRACTOR SHALL EXTEND FOOTINGS 1 FOOT (MIN.) ABOVE SUBGRADE AT THE TIME OF INSTALLATION SO THAT FINAL FOOTING ELEVATION WILL BE ABOVE FINISH GRADE.
  6. BARBED WIRE SHALL BE ZINC COATED DOUBLE-STRAND TWISTED WIRE WITH 14 GAUGE ZINC, OR ALUMINUM COATED, 4 POINT BARBS SPACED ON APPROXIMATELY 5 INCH CENTERS. MINIMUM WEIGHT OF ZINC COATING SHALL BE 0.8 OZ./FT<sup>2</sup>. MINIMUM WEIGHT OF ALUMINUM COATING SHALL BE 0.3 OZ./FT<sup>2</sup>.

PREPARED FOR:  
**CUMBERLAND COUNTY  
 SOLID WASTE  
 MANAGEMENT DEPARTMENT  
 FAYETTEVILLE,  
 NORTH CAROLINA**

PREPARED BY:  
 NC LIC. NO. F-1370 (ENGINEERING)  
 SC COA NO. C01488  
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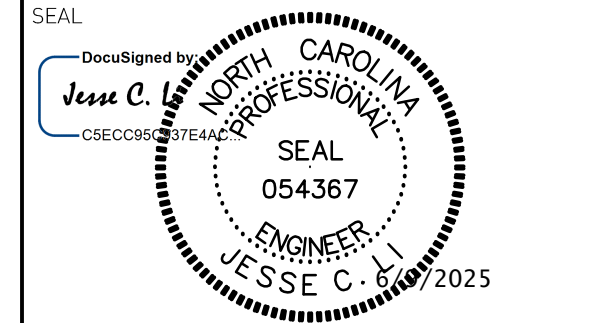
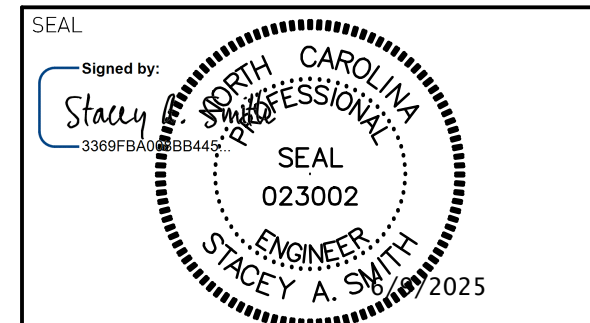
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 SOLID WASTE  
 CONVENIENCE CENTER**

DRAWING TITLE:  
**SITE DETAILS**

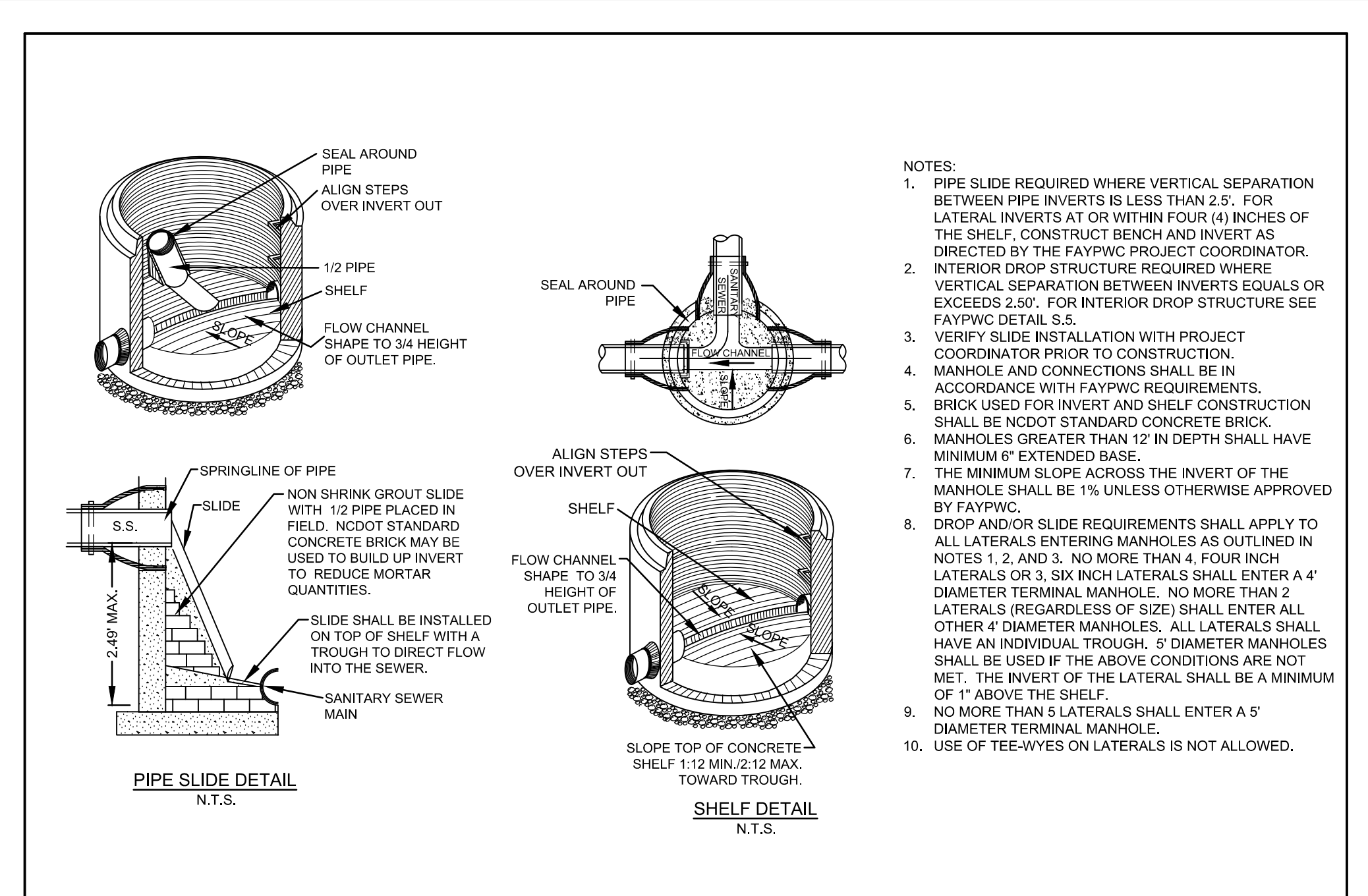
DESIGNED	PROJECT NO.
J.C.L.	CUMBERLAND 21-8
DRAWN	SCALE
J.B.G.	AS SHOWN
APPROVED	DATE
JCL	AUG. 2022
FILENAME	DRAWING NUMBER
CUMBERLAND-D0158	
SHEET NUMBER	DRAWING NUMBER
6	D1

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 NOT FOR CONSTRUCTION**



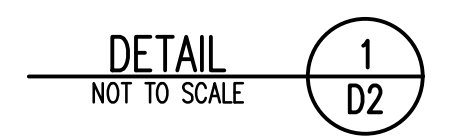
- ALL SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR FAYPWC WATER AND SEWER UTILITIES.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
- ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS PRIOR TO PLACING INTO SERVICE.
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE FAYPWC PROJECT COORDINATOR.
- ALL DUCTILE IRON PIPE IN SANITARY SEWER SERVICE SHALL HAVE AN INTERIOR LINING OF PROTECTO 401 OR APPROVED EQUAL.
- ALL NEW MANHOLES ARE TO BE VACUUM-TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
- CONTRACTOR SHALL REPAIR ALL SEWER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPORT ALL SEWER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS.
- TRANSFER OF SEWER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
  - INSTALL AND TEST NEW MAINS, MANHOLES, AND LATERALS. CLEANOUTS SHALL BE INSTALLED 18" INSIDE R/W UNLESS OTHERWISE DIRECTED BY FAYPWC.
  - CONNECT EXISTING PLUMBING TO NEW LATERAL UTILIZING THE NECESSARY FITTINGS AS DIRECTED BY FAYPWC.
  - AFTER ALL SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN, THE EXISTING SEWER SYSTEM SHALL BE ABANDONED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING SEWER SERVICES THAT WILL NOT BE UTILIZED BY UNCOVERING THE EXISTING LATERAL AT THE MAIN, CUT AND PLUG AT BOTH ENDS, REMOVE THE EXISTING CLEANOUT AND COMBINATION, AND PLUG THE TAP OR TEE AT THE MAIN. FOR LATERALS THAT CONNECT TO A MANHOLE AND ARE TO BE ABANDONED ("KILLED-OUT"), THE LATERAL SHALL BE REMOVED FROM THE MANHOLE AND THE REMAINING VOID IN THE MANHOLE SHALL BE FILLED WITH BLOCK AND MORTAR.
- SEWER PLUGS SHALL BE INSTALLED TO ELIMINATE ANY DEBRIS OR OTHER MATERIAL FROM ENTERING THE ACTIVE SEWER SYSTEM. UPON ACCEPTANCE OF THE NEW SEWER SYSTEM, THE CONTRACTOR SHALL CLEAN THE NEW MAINS, REMOVE ALL DEBRIS, AND THEN REMOVE THE PLUG.
- ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- ALL WORK ON FAYPWC SEWER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC SEWER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- SEPARATION REQUIREMENTS:
  - LATERAL SEPARATION OF SEWER AND WATER MAINS:** WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENTS A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
    - THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL; OR
    - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
  - CROSSING A WATER MAIN OVER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
  - CROSSING WATER MAIN UNDER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL, A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
  - CROSSING STORM DRAINAGE LINES:** A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A SEWER MAIN/LATERAL CROSSING UNDER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IF DUCTILE IRON PIPE IS USED, A MINIMUM OF SIX(6) INCHES OF SEPARATION SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY FAYPWC.

GENERAL NOTES SANITARY SEWER UTILITY		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.1 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/18	ADDED NOTES 5, 8
				2	06/21	ADDED NOTES 1-8 AND RENUMBERED
				3	11/23	REVISED NOTE 15

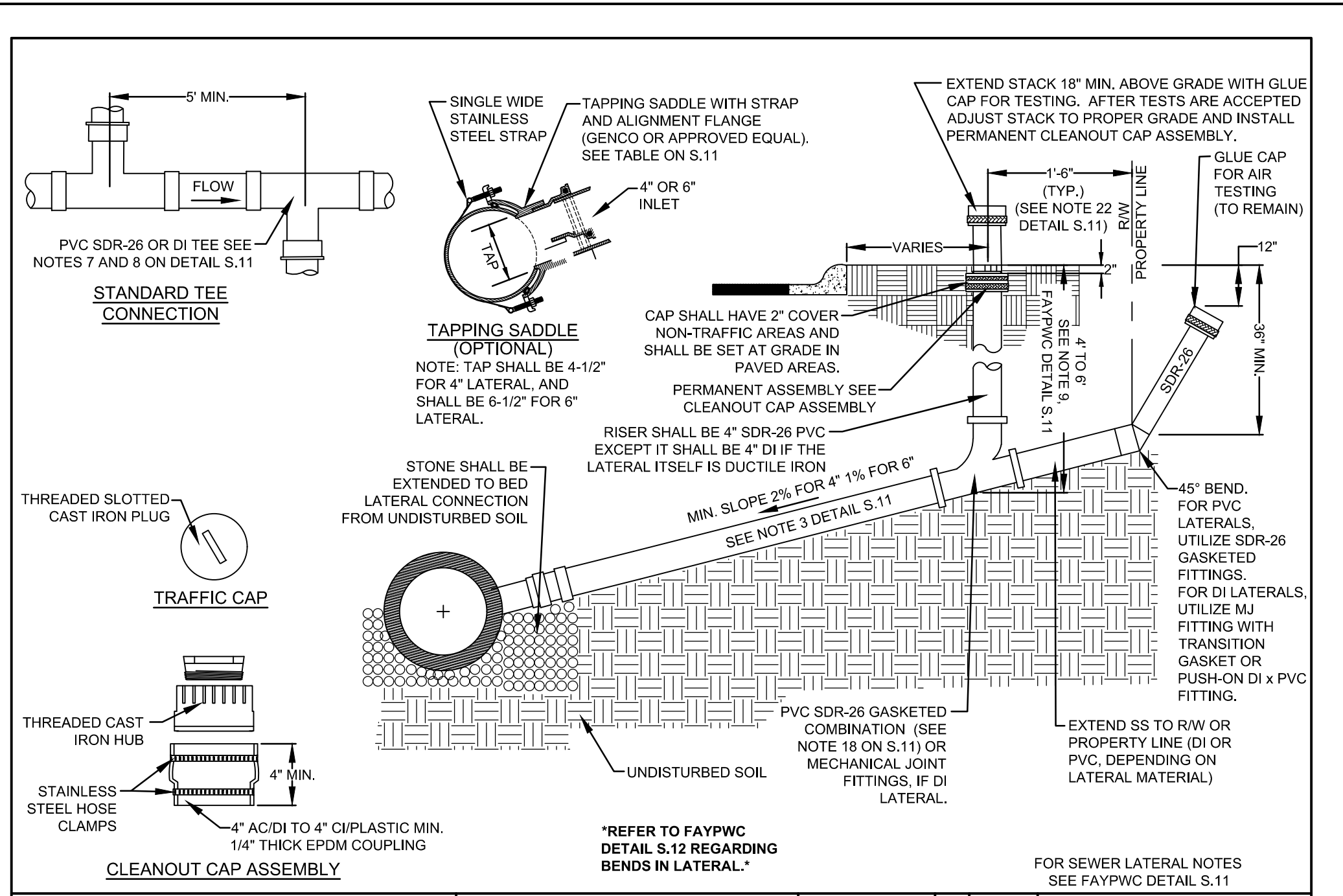
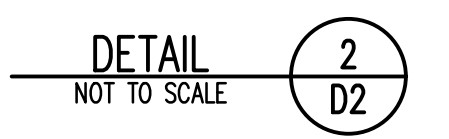


PIPE SLIDE AND SHELF DETAILS N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.4 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/05	ADDED NOTE 8
				2	02/07	REVISED NOTE 8, SLIDE DETAIL, ADDED NOTES 10, 11, 12
				3	01/18	DELETED MORTAR SLIDE, REVISED NOTES

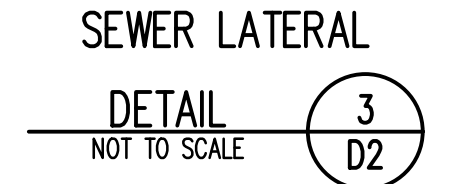
GENERAL NOTES SANITARY SEWER UTILITY



PIPE SLIDE AND SHELF DETAILS



SEWER LATERAL (4-INCH AND 6-INCH) N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.10 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	2	01/14	ADDED TAILPIECE, NOTES
				3	01/15	REVISED NOTES RE: TAILPIECE
				4	07/18	REVISED NOTE RE: LATERAL DEPTH



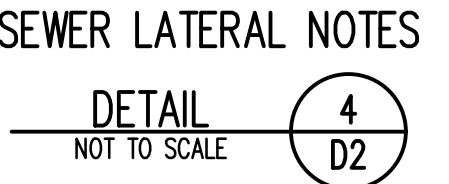
- SEWER LATERAL NOTES**
- HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER NO HAMMER TAPS ALLOWED.
  - LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-26 UNLESS OTHERWISE INDICATED AS DI.
  - ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.
  - ALL DI PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY (PROTECTO 401). THE ENTIRE DI LATERAL SHALL BE COMPRISED OF DI PIPE AND MECHANICAL JOINT FITTINGS.
  - ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.
  - SANITARY SEWER LATERAL CLEANOUT STACK SHALL BE LOCATED 18" FROM WATER LATERAL LOCK VALVE WHEN IN THE SAME DITCH. INSTALLATION OTHER THAN AS SHOWN MUST BE APPROVED BY THE FAYPWC.
  - CONNECTIONS TO THE TOP OF MAIN SHALL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE FAYPWC PROJECT COORDINATOR.
  - THE DESIGN ENGINEER SHALL DETERMINE THE SLOPE AND DEPTH OF THE LATERAL BASED ON THE TOPOGRAPHY OF THE LOT.
  - LATERAL SHALL CONFORM TO 2% MINIMUM SLOPE FOR 4" OR 1% MINIMUM SLOPE FOR 6". THE MAXIMUM LENGTH OF A SEWER LATERAL SHALL BE 60 FEET, UNLESS OTHERWISE APPROVED BY FAYPWC.
  - SEE INTERIOR DROP STRUCTURE OR SLIDE, MORTAR SLIDE AND SHELF DETAIL FOR VERTICAL DROPS OF MAINS AND LATERALS.
  - LATERALS LESS THAN 3' IN DEPTH OR GREATER THAN 20' DEPTH SHALL UTILIZE DUCTILE IRON PIPE AND FITTINGS WITH CERAMIC EPOXY (PROTECTO 401), OR WHEN SEPARATION REQUIREMENTS CANNOT BE MET.
  - ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.
  - INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.
  - LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE FAYPWC PROJECT COORDINATOR.
  - WYE CONNECTIONS SHALL NOT BE USED TO THE LATERALS TO A MANHOLE.
  - IF BENDS ARE APPROVED BY THE PROJECT COORDINATOR, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED (SEE DETAIL S.12) SOIL TO BOTTOM OF BEND.
  - PVC COMBINATION SHALL BE A MOLDED WYE AND BEND, GASKETED, SDR-26, AS MANUFACTURED BY HARCO, GPK, OR APPROVED EQUAL.
  - NO MORE THAN 4, FOUR-INCH LATERALS OR 3, SIX-INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET.
  - ALL LATERALS (4" AND 6") SHALL UTILIZE A 4" RISER (STACK).
  - REFER TO DETAIL S.12 FOR SEPARATION REQUIREMENTS.
  - FOR SINGLE FAMILY RESIDENTIAL LOTS, CLEANOUT SHALL BE LOCATED 18" FROM RIGHT-OF-WAY OR EASEMENT. FOR ALL NON-SINGLE FAMILY LOTS, CLEANOUT SHALL BE NO CLOSER THAN 10' TO FRONT OF BUILDING, UNLESS OTHERWISE APPROVED BY FAYPWC.

THE FOLLOWING TABLE SUMMARIZES THE MATERIALS TO BE UTILIZED FOR SEWER MAIN TO LATERAL CONNECTIONS:

	PVC Main	DI Main
DI Lateral	MJ fitting or approved saddle	MJ fitting or approved saddle
PVC Lateral	PVC fitting or approved saddle	MJ fitting with transition gasket or approved saddle

NOTE: REFER TO FAYPWC TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SEWER LATERAL NOTES (4-INCH AND 6-INCH) N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.11 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	3	01/13	REVISED NOTES AND ADDED TABLE
				4	01/15	REVISED NOTE 22, TABLE
				5	07/18	REVISED NOTES 6, 9



REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

PROJECT TITLE:

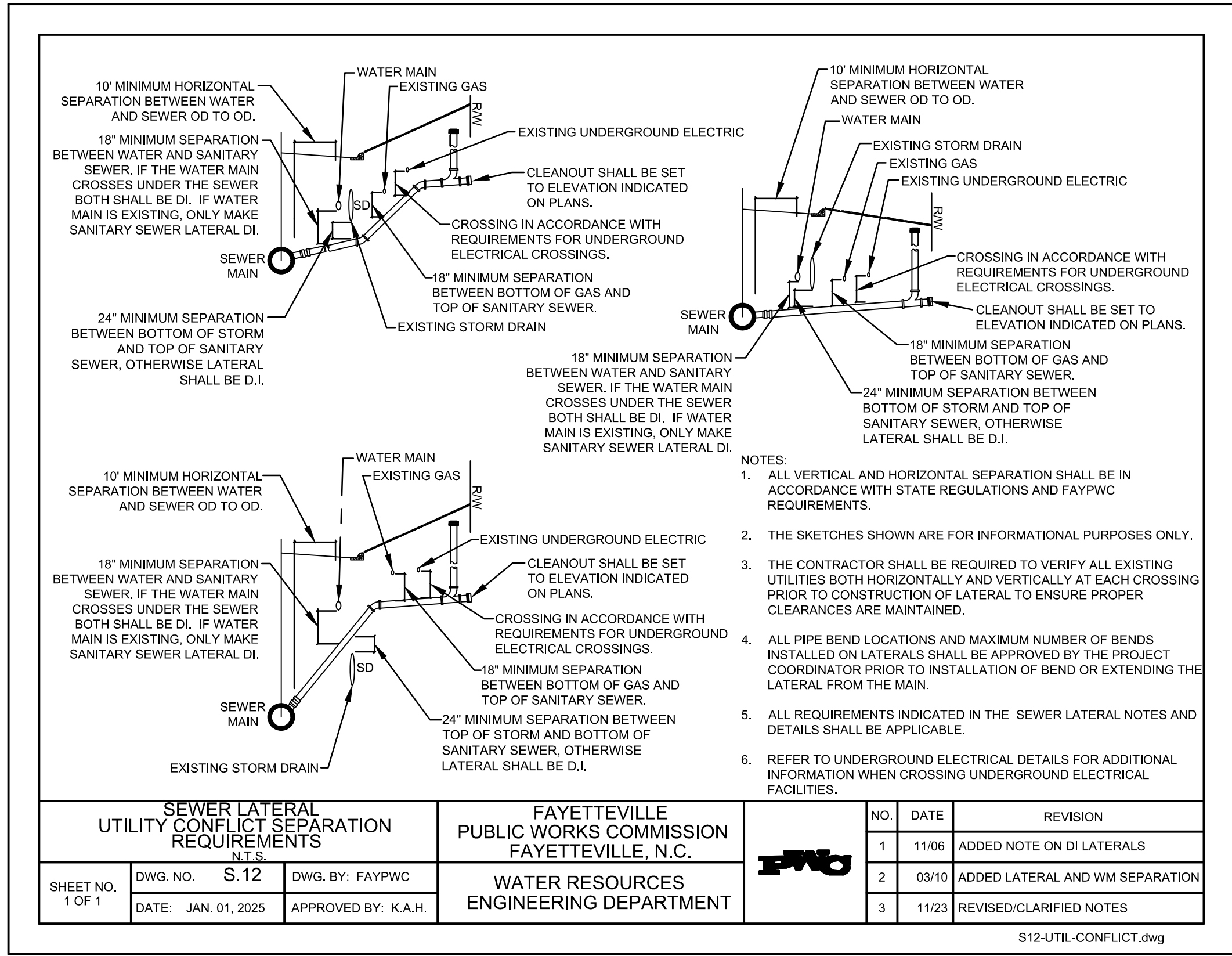
**ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER**

DRAWING TITLE:

**UTILITY DETAILS  
(SHEET 1 OF 4)**

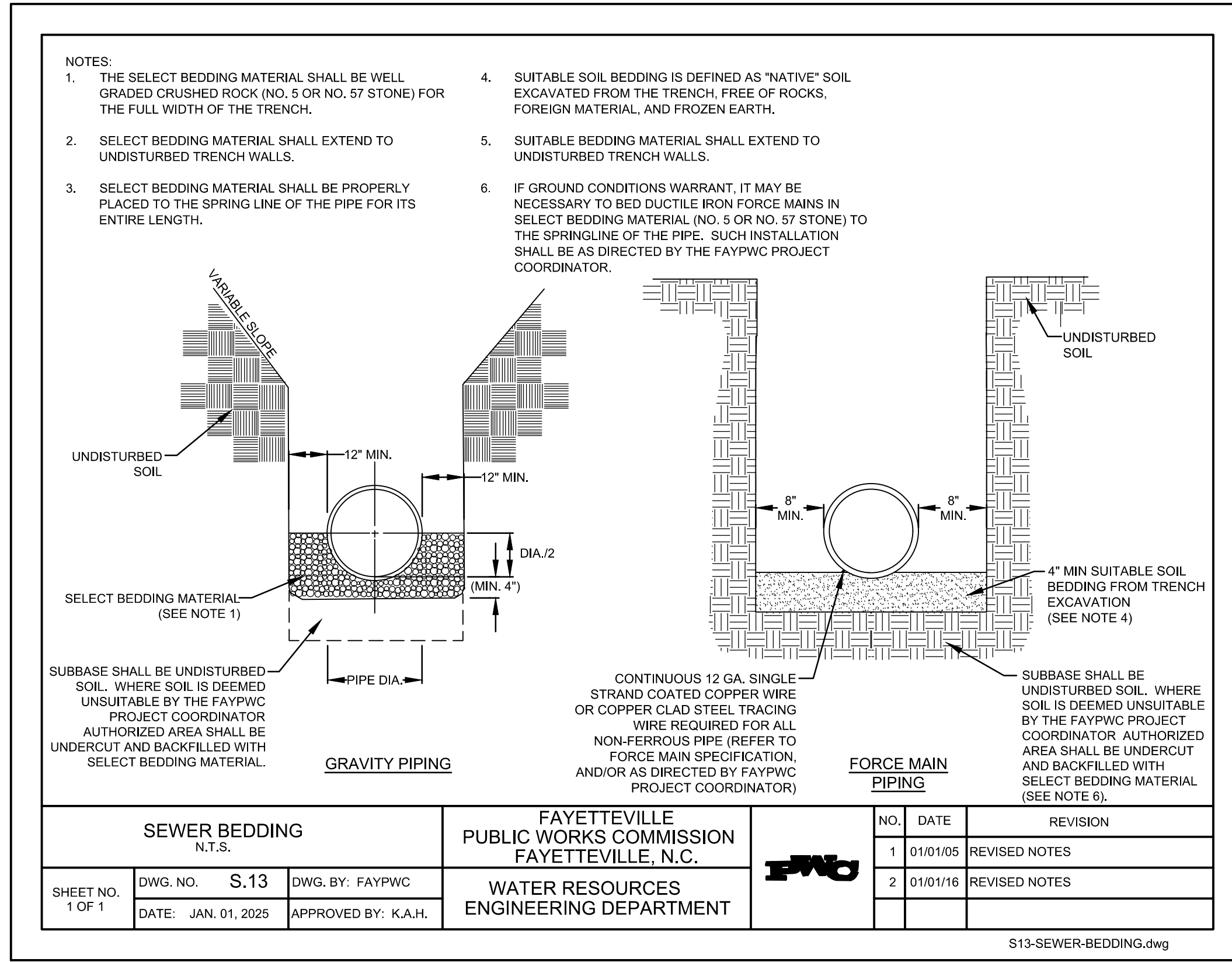
DESIGNED	J.C.L.	PROJECT NO.	CUMBERLAND 21-8
DRAWN	J.R.G.	SCALE	AS SHOWN
APPROVED	JCL	DATE	AUG. 2022
FILENAME	CUMBERLAND-D0159		
SHEET NUMBER	7	DRAWING NUMBER	02

**FOR BIDDING  
NOT FOR CONSTRUCTION**



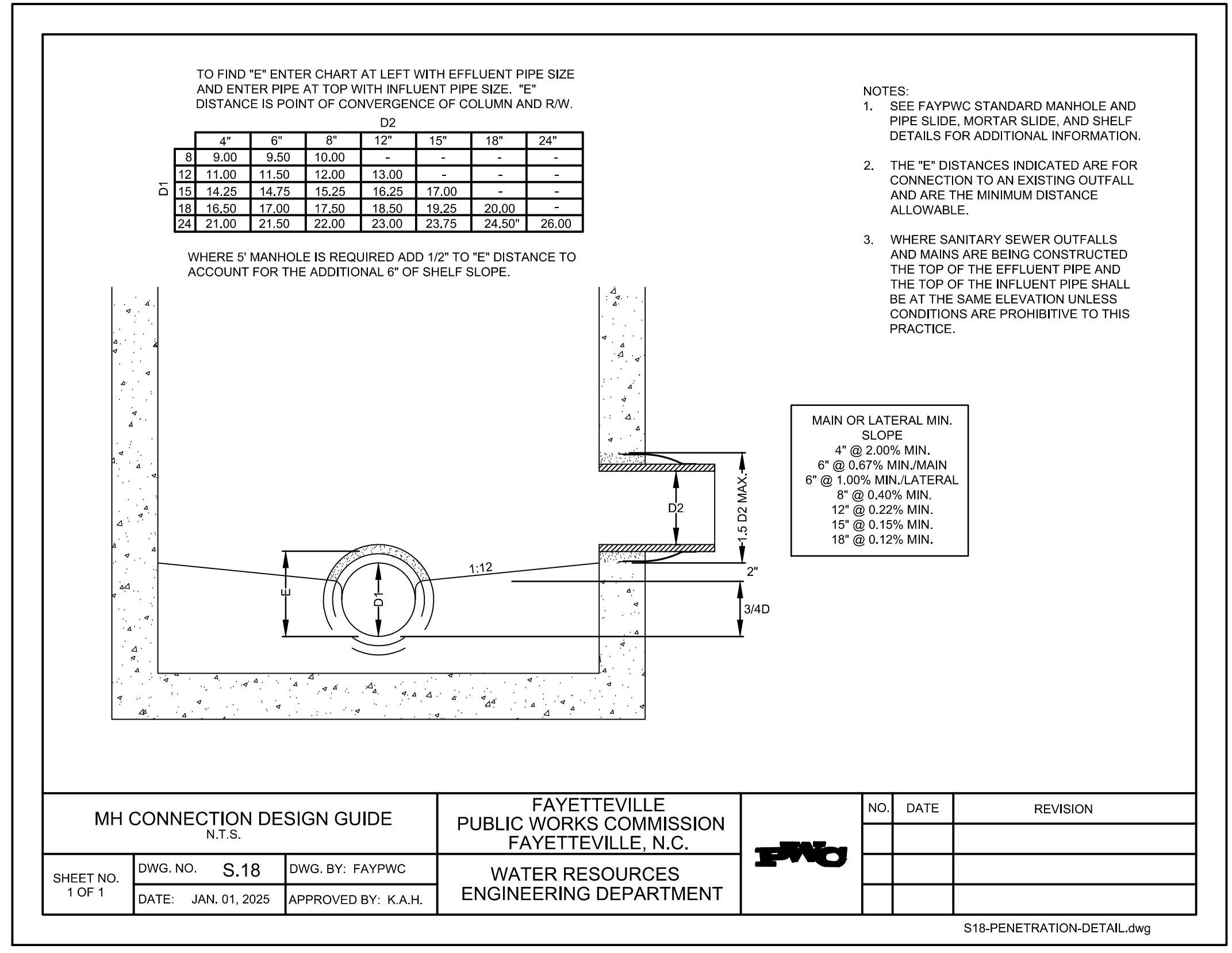
SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS

DETAIL 1  
NOT TO SCALE D3



SEWER BEDDING

DETAIL 2  
NOT TO SCALE D3



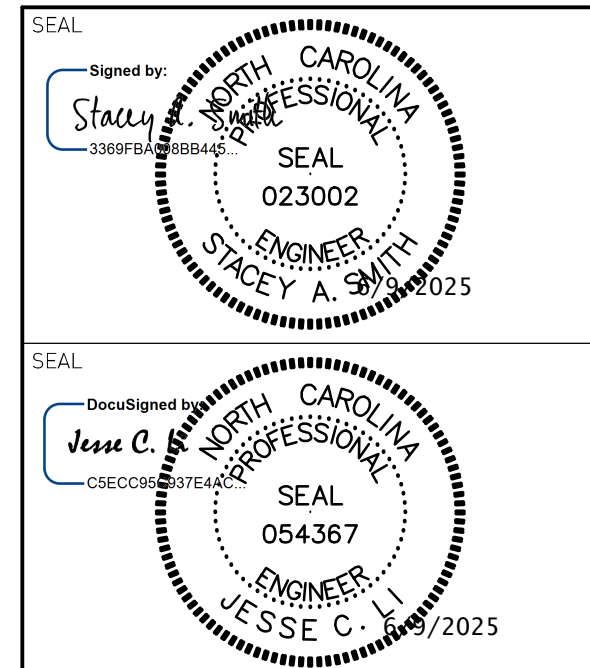
MH CONNECTION DESIGN GUIDE

DETAIL 3  
NOT TO SCALE D3

PREPARED FOR:  
**CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA**

PREPARED BY: NC LIC. NO. F-1070 (ENGINEERING)  
SC COA NO. C01488

**SMITH+  
GARDNER  
ENGINEERS**  
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

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PROJECT TITLE:  
**ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER**

DRAWING TITLE:  
**UTILITY DETAILS  
(SHEET 2 OF 4)**

DESIGNED: J.C.L.	PROJECT NO: CUMBERLAND 21-8
DRAWN: J.R.G.	SCALE: AS SHOWN
APPROVED: JCL	DATE: AUG. 2022
FILENAME: CUMBERLAND-D0159	
SHEET NUMBER: 8	DRAWING NUMBER: D3

**FOR BIDDING  
NOT FOR CONSTRUCTION**

PREPARED FOR:

**CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA**

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)  
SC COA NO. C01488

**SMITH+  
GARDNER  
ENGINEERS**

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201

- ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYPWC STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
- CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS SIGNED AND SEALED BY A P.E. SHALL BE PROVIDED TO THE CORPORATION, AND TURNING OFF THE CORPORATION AT THE METER BOX, THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
- ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYPWC STANDARDS PRIOR TO PLACING INTO SERVICE.
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYPWC PROJECT COORDINATOR.
- CONTRACTOR SHALL REPAIR ALL WATER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT IMMEDIATELY ALL WATER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS. CONTRACTOR SHALL NOT OPERATE FAYPWC WATER MAIN VALVES WITHOUT FAYPWC APPROVAL AND SHALL COORDINATE ALL VALVE CLOSINGS WITH FAYPWC.
- THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOW OFF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THRU RESIDENTS METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING "DIRTY" WATER TO ENTER RESIDENTS' PLUMBING SYSTEM, SUCH AS WATER HEATERS, STAINED CLOTHING, CLOSED SCREENS, ETC.
- TRANSFER OF WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
  - INSTALL, TEST AND STERILIZE NEW MAIN AND LATERALS. LATERALS SHALL BE INSTALLED 18" INSIDE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED BY FAYPWC.
  - TRANSFER EXISTING METER TO NEW METER BOX AND THE NEW WATER LATERAL TO EXISTING DOMESTIC SERVICE UTILIZING BRASS FITTINGS. SAME METER NUMBER SHALL BE INSTALLED ON SAME ADDRESS AND/OR CUSTOMER. BLOW OFF SERVICE AT HOSE BIBB ON HOUSE ONLY AFTER METER HAS BEEN TRANSFERRED.
  - AFTER ALL SERVICES ARE TRANSFERRED TO THE NEW SYSTEM, SHUT OFF VALVE ON EXISTING SYSTEM AND ABANDON EXISTING MAINS IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
  - CONTRACTOR SHALL SUPPLY NEW METER BOXES AND DISPOSE OF EXISTING METER BOXES.
- CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING WATER SERVICES THAT WILL NOT BE UTILIZED BY CUTTING THE SERVICE AT THE MAIN, PLUGGING THE CORPORATION, AND TURNING OFF THE CORPORATION AT THE METER BOX, THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
- ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- ALL WORK ON FAYPWC WATER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC WATER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- SEPARATION REQUIREMENTS:
  - LATERAL SEPARATION OF SEWERS AND WATER MAINS:** WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
    - THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN LATERAL; OR
    - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN LATERAL.
  - CROSSING A WATER MAIN OVER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN LATERAL.
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WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.		DATE		REVISION	
SHEET NO. 1 OF 2	DWG. NO. W.1	DWG. BY: FAYPWC	DATE: JAN. 01, 2025	APPROVED BY: K.A.H.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/01/18	ADDED NOTES 6, 8
							2	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
							3	11/23	REVISED NOTES 10, 14

W1-WATER-UTILITY-NOTES.dwg

- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
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- THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOW OFF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THRU RESIDENTS METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING "DIRTY" WATER TO ENTER RESIDENTS' PLUMBING SYSTEM, SUCH AS WATER HEATERS, STAINED CLOTHING, CLOSED SCREENS, ETC.
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    - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN LATERAL.
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- CROSSING STORM DRAINAGE LINES:** A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A WATER LINE CROSSING OVER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IN ADDITION, THREE AND A HALF (3.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN OR IT SHALL BE DUCTILE IRON. IF DUCTILE IRON PIPE IS USED, THEN TWO AN A HALF (2.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN AND A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND THE STORM DRAINAGE LINE. WHERE A WATER MAIN CROSSES UNDER A STORM DRAINAGE LINE THE MINIMUM OF TWELVE (12) INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AND THE WATER MAIN SHALL BE DUCTILE IRON FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING.
- WATER OUTAGES:** THE CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY PLANNED WATER OUTAGE. THE COORDINATION MEETING SHALL BE CONDUCTED PRIOR TO ANY NOTICES BEING ISSUED. ADDITIONALLY, THE CONTRACTOR SHALL LOCATE VERTICALLY AND HORIZONTALLY ANY UTILITIES WITHIN THE WORK AREA, IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. THE LOCATIONS OF ALL UTILITIES WITHIN THE WORK AREA SHALL BE DETERMINED PRIOR TO THE COORDINATION MEETING. ANY CONFLICTS WITH THE PENDING WORK AND THE EXISTING UTILITIES SHALL BE IDENTIFIED AND A PLAN FOR RESOLVING ANY CONFLICTS SHALL BE PRESENTED. THE PURPOSE OF THIS COORDINATION MEETING IS TO ENSURE THAT THE CONTRACTOR HAS A GOOD UNDERSTANDING OF THE REQUIREMENTS RELATED TO THE PENDING OUTAGE, VERIFY THAT THERE ARE NO UTILITY CONFLICTS THAT WILL PREVENT THE WORK FROM BEING COMPLETED, ALL EQUIPMENT IS IN GOOD WORKING ORDER, ALL EQUIPMENT IS FUNCTIONAL, ALL MATERIALS ARE ON SITE, ALL NECESSARY TOOLS ARE ON SITE, DISCUSS ANY NECESSARY CONTINGENCY PLANS, AND ANY OTHER ITEMS NECESSARY TO ENSURE THAT THE FAYETTEVILLE PUBLIC WORKS COMMISSION HAS CONFIDENCE THAT THE WORK CAN BE ACCOMPLISHED WITHIN THE GIVEN TIME PERIOD. SHOULD, FOR ANY REASON, THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEM THAT THE CONTRACTOR IS NOT PREPARED FOR THE PROPOSED OUTAGE, THE OUTAGE NOTIFICATIONS WILL NOT BE DISTRIBUTED AND THE OUTAGE SHALL BE POSTPONED A MINIMUM OF TWO (2) WEEKS. THE FAYETTEVILLE PUBLIC WORKS COMMISSION WILL PROVIDE WRITTEN NOTICE TO THE CONTRACTOR OF THIS DECISION. NO ADDITIONAL CONTRACT TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS OUTLINED IN THESE CONTRACT DOCUMENTS.

ONCE THE WATER OUTAGE NOTIFICATIONS HAVE BEEN ISSUED, A FOLLOW-UP COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER SHALL BE HELD A MINIMUM OF 24 HOURS PRIOR TO THE SCHEDULED PURPOSE OF THIS MEETING IS TO VERIFY THAT THE CONTRACTOR IS PREPARED TO PROCEED WITH THE OUTAGE, AND THAT ALL EQUIPMENT, MATERIALS, TOOLS, AND ALL OTHER INCIDENTALS ARE ON THE PROJECT SITE AND FUNCTIONING. IF FOR ANY REASON THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEMS THAT THE CONTRACTOR IS NOT PREPARED, THE OUTAGE SHALL BE POSTPONED AND ALL CUSTOMERS IMMEDIATELY NOTIFIED OF THE CANCELLATION. THE OUTAGE SHALL BE POSTPONED A MINIMUM OF TWO (2) WEEKS. NO ADDITIONAL CONTRACT TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS OUTLINED IN THESE CONTRACT DOCUMENTS.

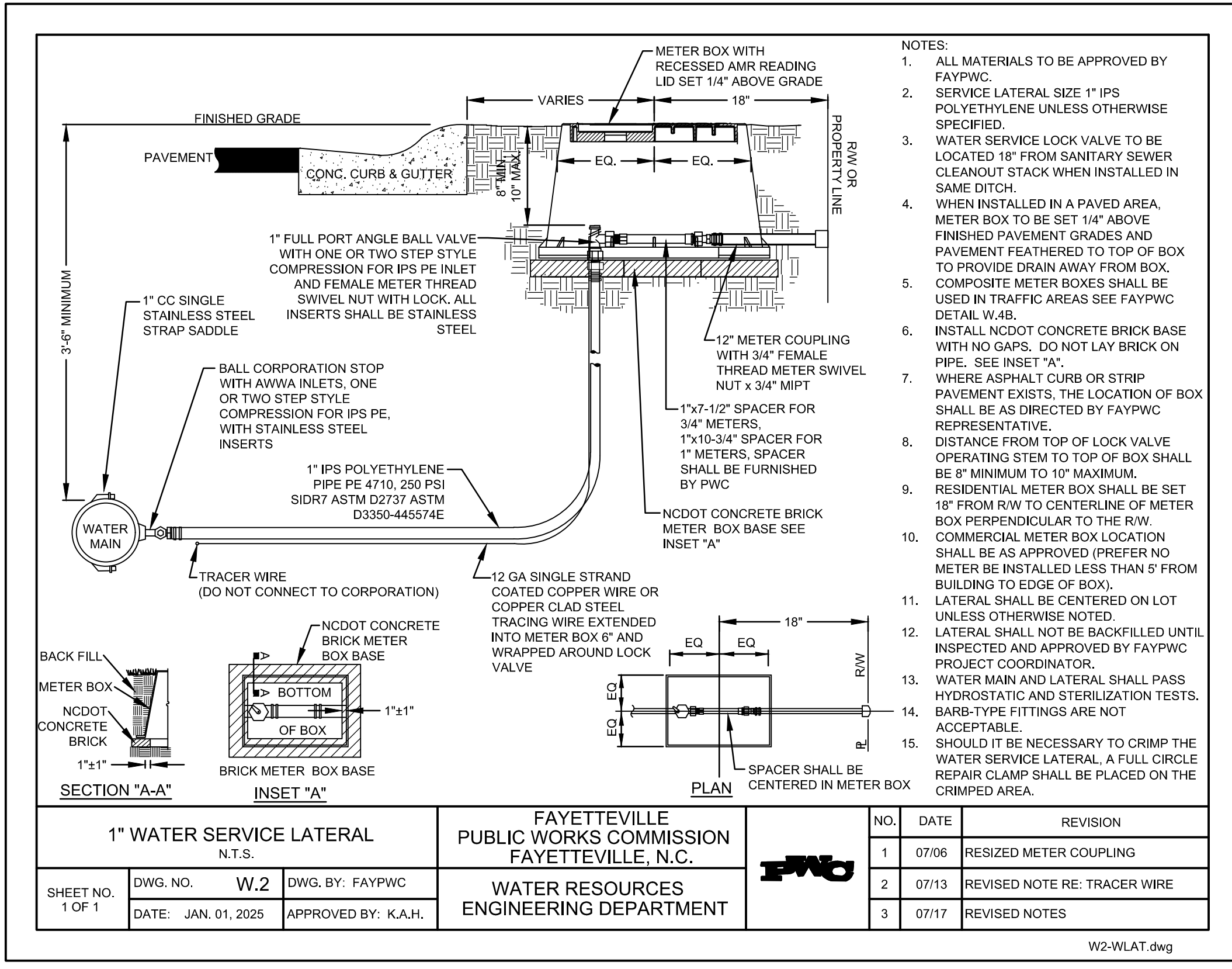
THE CONTRACTOR SHALL COMPLETE THE REQUIRED WORK AND RESTORE WATER SERVICE WITHIN THE GIVEN TIME PERIOD FOR THE OUTAGE. IF THE FAYPWC PROJECT COORDINATOR DETERMINES THAT THE CONTRACTOR WILL NOT RESTORE WATER SERVICE WITHIN THE APPROVED TIMEFRAME, THE FAYPWC PROJECT COORDINATOR WILL DIRECT THE CONTRACTOR ON HOW TO RESTORE WATER SERVICE. THE CONTRACTOR SHALL ADHERE TO ALL INSTRUCTIONS GIVEN BY THE FAYPWC PROJECT COORDINATOR.

SHOULD THE CONTRACTOR FAIL TO COMPLETE THE WORK WITHIN THE ALLOTTED TIME, THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL ASSESS A PENALTY OF \$500 PER 15-MINUTE INTERVAL OR ANY PORTION THEREOF UNTIL WATER SERVICE IS RESTORED. THIS PENALTY WILL BE DEDUCTED FROM THE CONTRACTOR'S PAY APPLICATION OR BE BILLED DIRECTLY TO THE CONTRACTOR. THE PENALTY MAY BE WAIVED FOR CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, AS DETERMINED BY THE FAYETTEVILLE PUBLIC WORKS COMMISSION. THE FAYPWC PROJECT COORDINATOR AND/OR PROJECT ENGINEER RESERVE THE RIGHT TO CANCEL OR POSTPONE THE OUTAGE AT ANY GIVEN TIME, IF DEEMED NECESSARY.

WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.		DATE		REVISION	
SHEET NO. 2 OF 2	DWG. NO. W.1	DWG. BY: FAYPWC	DATE: JAN. 01, 2025	APPROVED BY: K.A.H.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/01/18	ADDED NOTES 6, 8
							2	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
							3	11/23	REVISED NOTES 10, 14

W1-WATER-UTILITY-NOTES.dwg

WATER UTILITY NOTES  
DETAIL 1  
NOT TO SCALE D4



WATER SERVICE LATERAL  
DETAIL 2  
NOT TO SCALE D4

**FOR BIDDING**  
NOT FOR CONSTRUCTION

SEAL

Stacey A. Smith  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 023002  
ENGINEER STACEY A. SMITH 2025

SEAL

Jesse C. L...  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 054367  
ENGINEER JESSE C. L... 2025

REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

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PROJECT TITLE:

**ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER**

DRAWING TITLE:

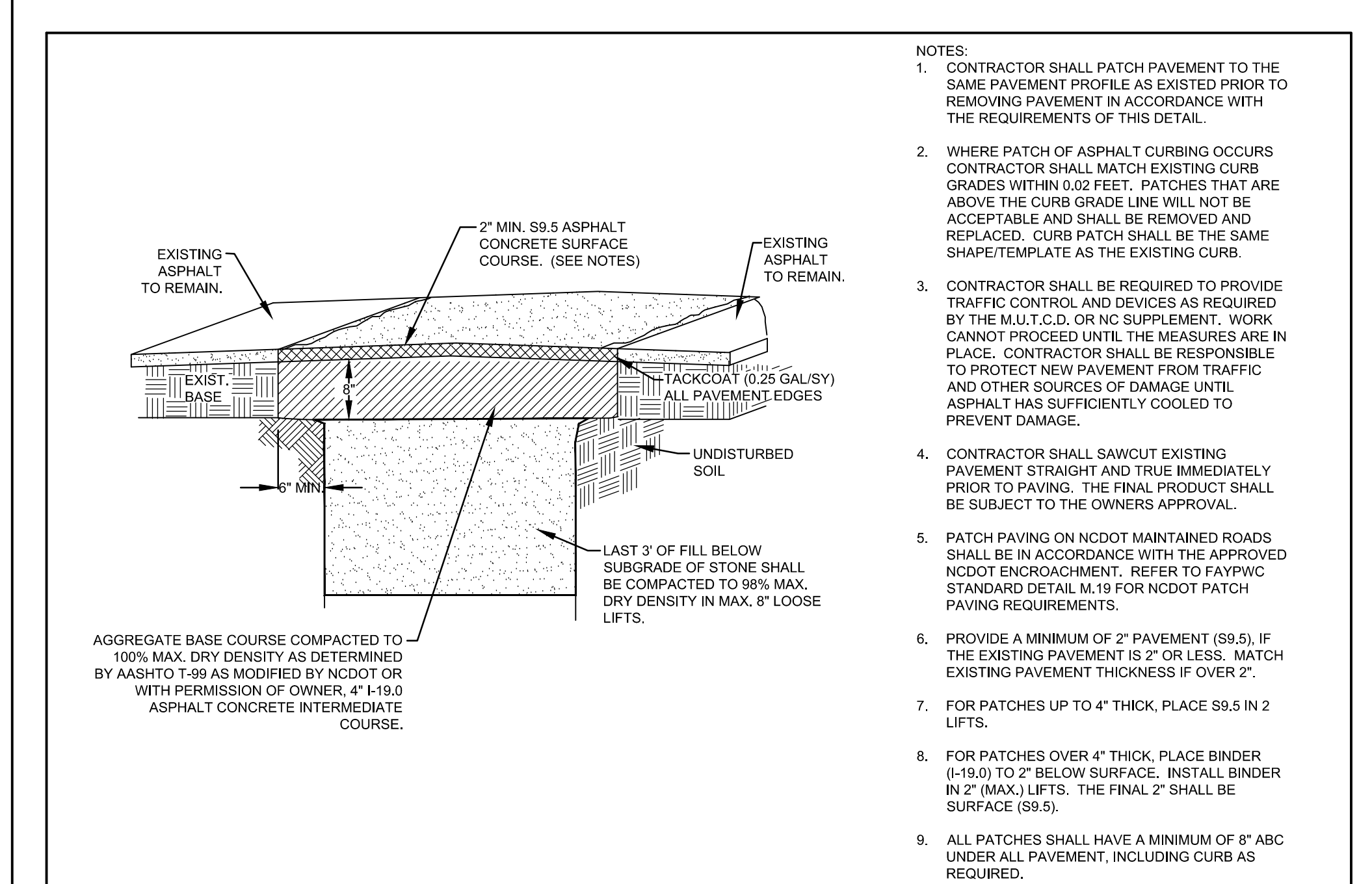
**UTILITY DETAILS  
(SHEET 3 OF 4)**

DESIGNED		PROJECT NO.	
J.C.L.	CUMBERLAND 21-8		
DRAWN		SCALE	
J.B.G.	AS SHOWN		
APPROVED		DATE	
JCL	AUG. 2022		
FILENAME:		DRAWING NUMBER:	
CUMBERLAND-D0159			
SHEET NUMBER:		DRAWING NUMBER:	
9		D4	

- CONTRACTOR SHALL SAW CUT OR MILL ALL PAVEMENTS STRAIGHT AND TRUE PRIOR TO TRENCHING. CONTRACTOR SHALL SAW CUT PATCH AREAS AGAIN IMMEDIATELY PRIOR TO PATCH PAVING. THE FINAL SAW CUT FOR PATCHES SHALL BE STRAIGHT WITH A NEAT SQUARE EDGE AND OF UNIFORM WIDTH PARALLEL WITH THE EDGE OF PAVEMENT/CURB LINE. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- CONTRACTOR SHALL SWEEP STREETS AND PROVIDE DUST CONTROL AT ALL TIMES VIA WATER TRUCK, BROOMS, COMPACTORS, ETC. DEBRIS FROM SWEEPING OPERATIONS SHALL NOT BE DIRECTED TOWARD YARDS. CLEAN UP OF DEBRIS, TRASH, EXCESS MATERIALS, ETC. SHALL BE PERFORMED DAILY.
- ANY TRENCHES OPENED FOR PAVING SHALL BE PAVED BY THE END OF THE SAME DAY. IF WEATHER CONDITIONS CHANGE, EQUIPMENT BREAKS DOWN, OR ANY OTHER OCCURRENCE THAT STOPS THE PAVING OPERATIONS OCCURS, BACKFILL ALL PREPARED AREAS SO THEY ARE PASSABLE BY TRAFFIC.
- THE CONTRACTOR SHALL PATCH PAVE SERVICE LATERALS ON THE SAME DAY THAT MAIN LINE TRENCHES ARE PAVED. LATERALS SHALL BE PATCHED ON BOTH SIDES OF THE STREET AS PAVING PROGRESSES.
- THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT PROPER TRAFFIC CONTROL PROVISIONS AND ANY DEVICES REQUIRED TO IDENTIFY OBSTRUCTIONS OR HAZARDS WITHIN THE RIGHT-OF-WAY TO INCLUDE REFLECTIVE CONES AT EACH SERVICE LATERAL, REFLECTIVE BARRILES ON RAISED MANHOLES, ETC.
- AT NO TIME SHALL THE CONTRACTOR LEAVE MAIN AND/OR LATERAL TRENCHES WITH A VERTICAL ELEVATION DROP EXCEEDING ONE INCH (1") FROM EXISTING ASPHALT TO TRENCH SUB GRADE UNATTENDED, UNSECURED, AND/OR OVERNIGHT.

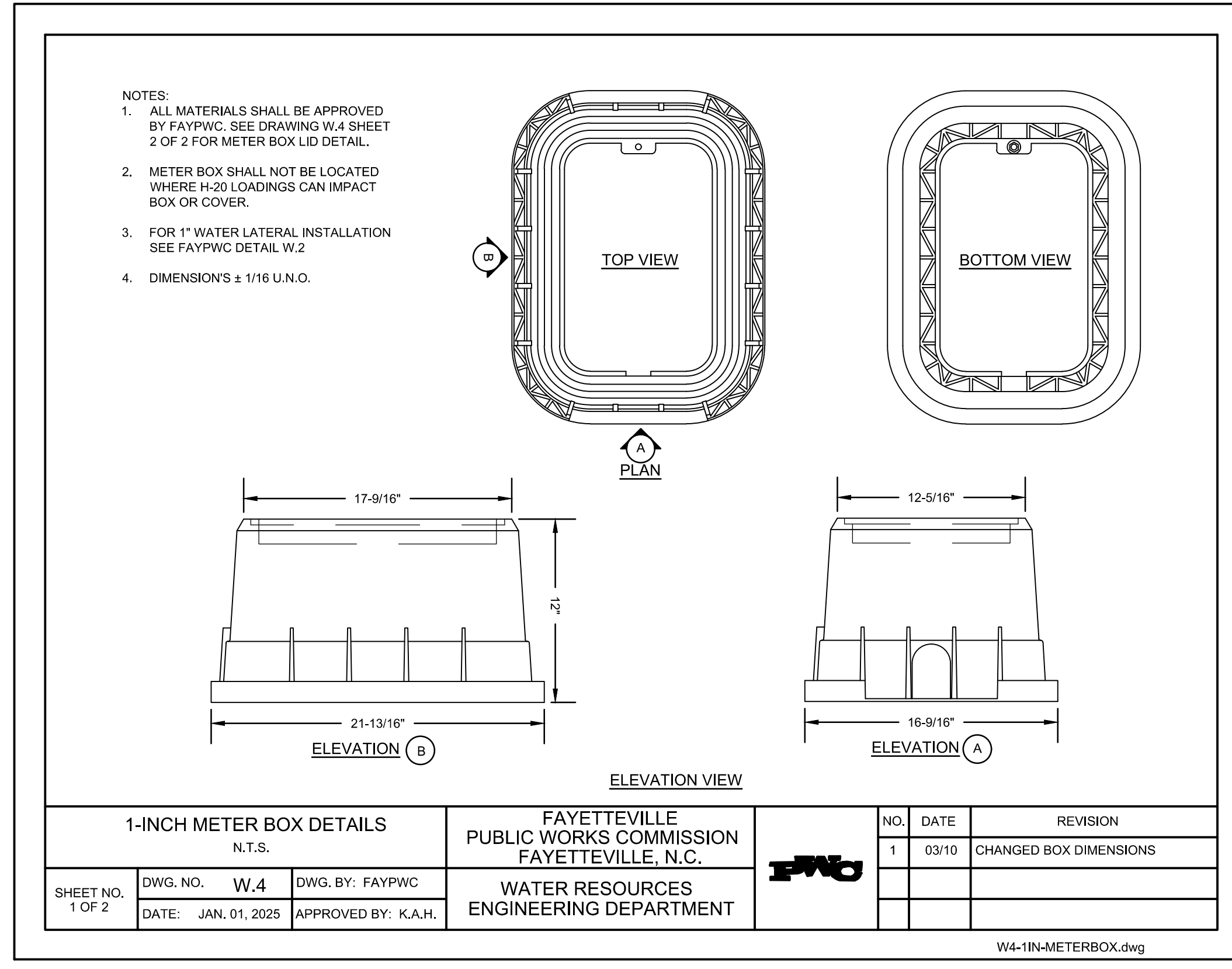
PAVEMENT REPAIR NOTES			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.			NO. DATE REVISION		
SHEET NO. 1 OF 1	DWG. NO. M.1	DWG. BY: FAYPWC	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	1	07/10	REVISED, DELETED NOTES	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT
DATE: JAN. 01, 2025	APPROVED BY: K.A.H.							

PAVEMENT REPAIR NOTES  
DETAIL 1  
NOT TO SCALE D5



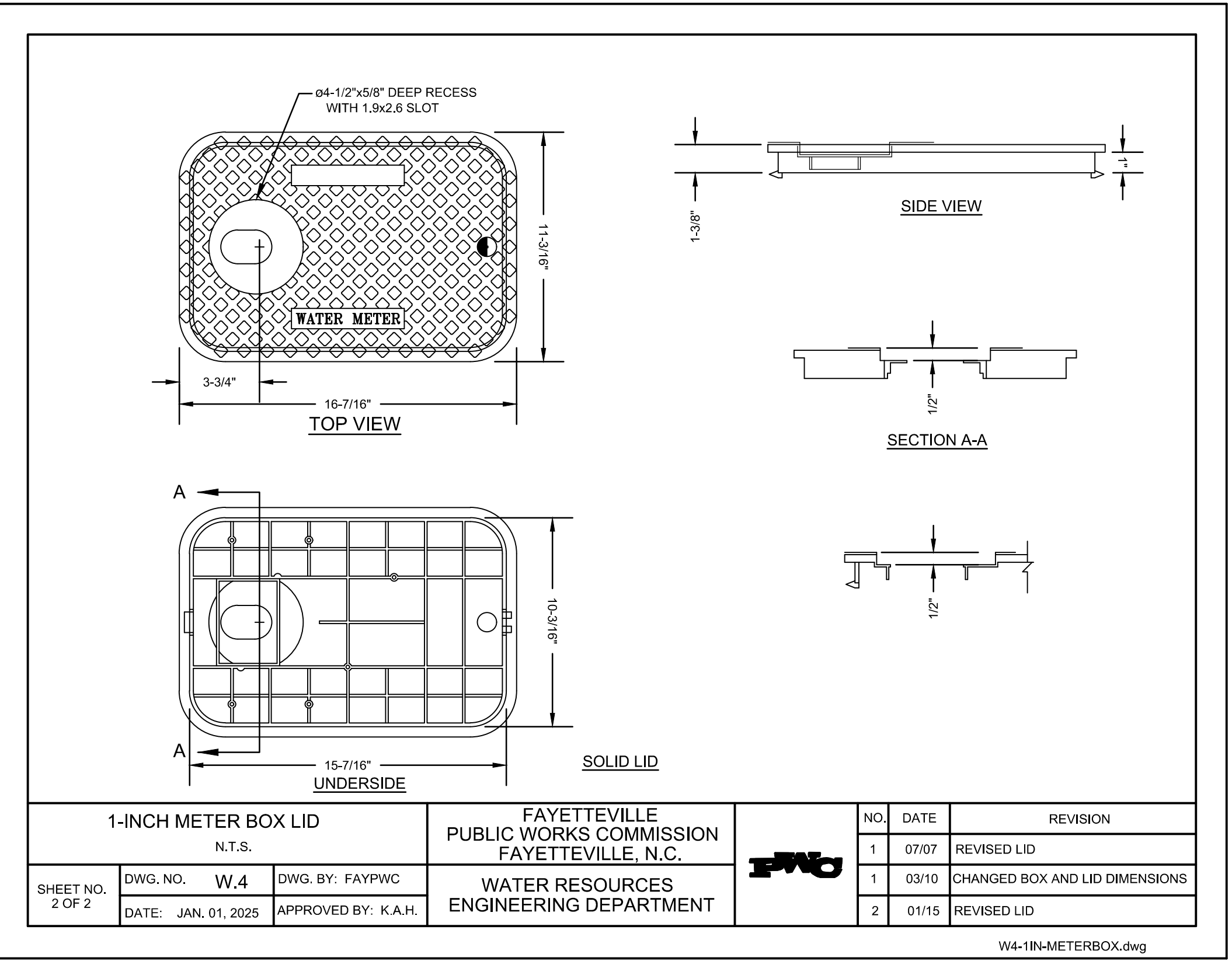
PERMANENT PAVEMENT PATCH			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.			NO. DATE REVISION		
SHEET NO. 1 OF 1	DWG. NO. M.2	DWG. BY: FAYPWC	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	1	01/07	CHANGED ASPHALT MIX	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT
DATE: JAN. 01, 2025	APPROVED BY: K.A.H.							

PERMANENT PAVEMENT PATCH  
DETAIL 2  
NOT TO SCALE D5



1-INCH METER BOX DETAILS			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.			NO. DATE REVISION		
SHEET NO. 1 OF 2	DWG. NO. W.4	DWG. BY: FAYPWC	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	1	03/10	CHANGED BOX DIMENSIONS	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT
DATE: JAN. 01, 2025	APPROVED BY: K.A.H.							

1IN METER BOX  
DETAIL 3  
NOT TO SCALE D5

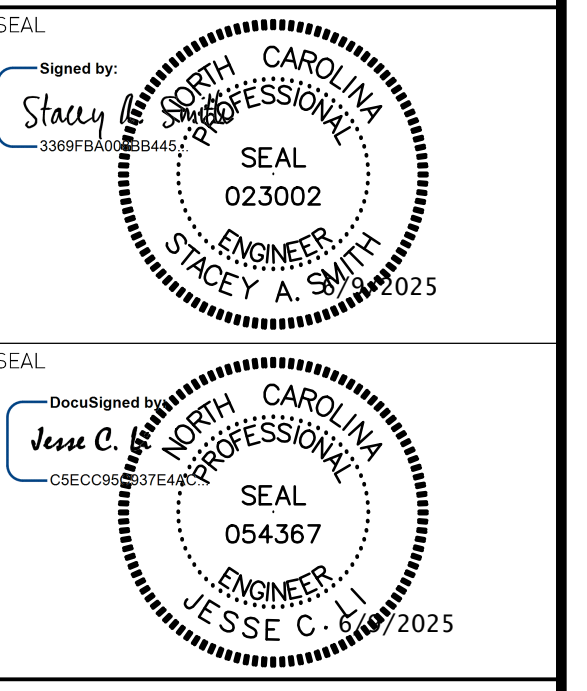


1-INCH METER BOX LID			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.			NO. DATE REVISION		
SHEET NO. 2 OF 2	DWG. NO. W.4	DWG. BY: FAYPWC	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	1	07/07	REVISED LID	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	WATER RESOURCES ENGINEERING DEPARTMENT
DATE: JAN. 01, 2025	APPROVED BY: K.A.H.							

**FOR BIDDING**  
**NOT FOR CONSTRUCTION**

PREPARED FOR:  
**CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA**

PREPARED BY:  
NC LIC. NO. F-1370 (ENGINEERING)  
SC COA NO. C01488  
**SMITH+  
GARDNER  
ENGINEERS**  
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201



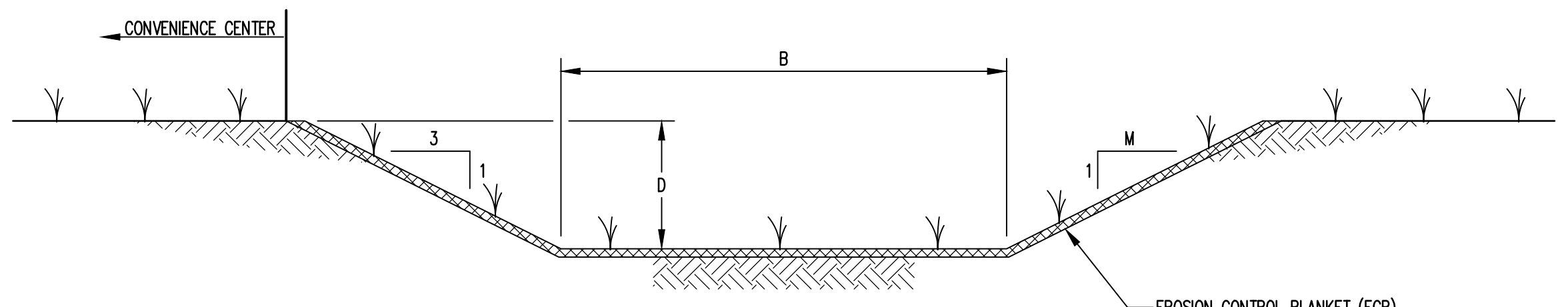
REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID
5	6/25	RE-BID

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PROJECT TITLE:  
**ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER**

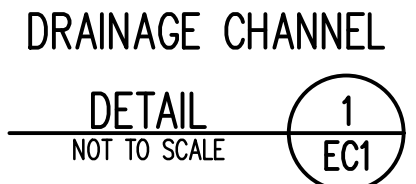
DRAWING TITLE:		
<b>UTILITY DETAILS (SHEET 4 OF 4)</b>		

DESIGNED	PROJECT TITLE
J.C.L.	CUMBERLAND 21-8
DRAWN	SCALE
J.R.G.	AS SHOWN
APPROVED	DATE
JCL	AUG. 2022
FILENAME	DRAWING NUMBER
CUMBERLAND-D0159	
SHEET NUMBER:	DRAWING NUMBER:
<b>10</b>	<b>05</b>



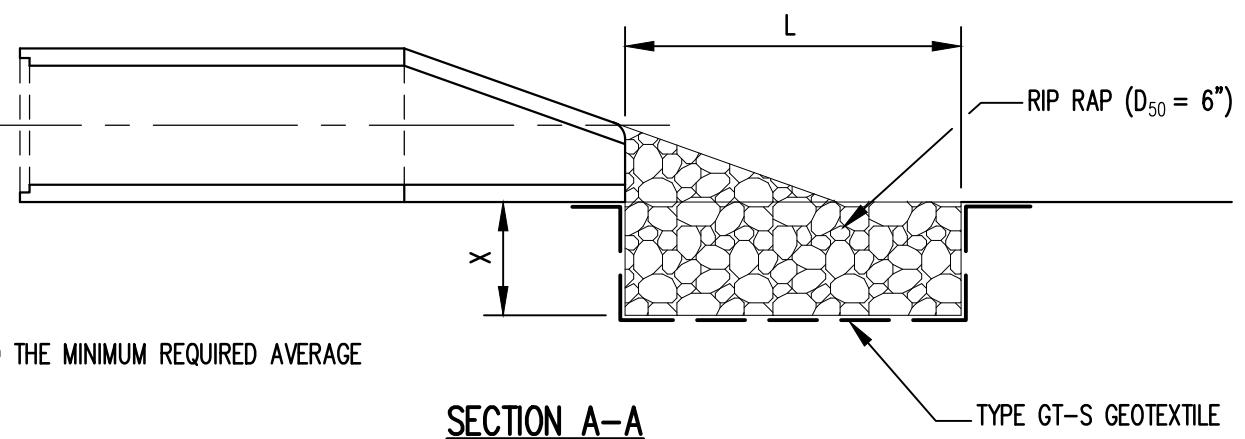
DRAINAGE CHANNEL SCHEDULE				
DRAINAGE CHANNEL NO.	B	M	D	LINING
DC-1 & DC-2	10	2	1.5	GRASS
DC-3	3	2	1	GRASS

**GRASS LINED CHANNELS**

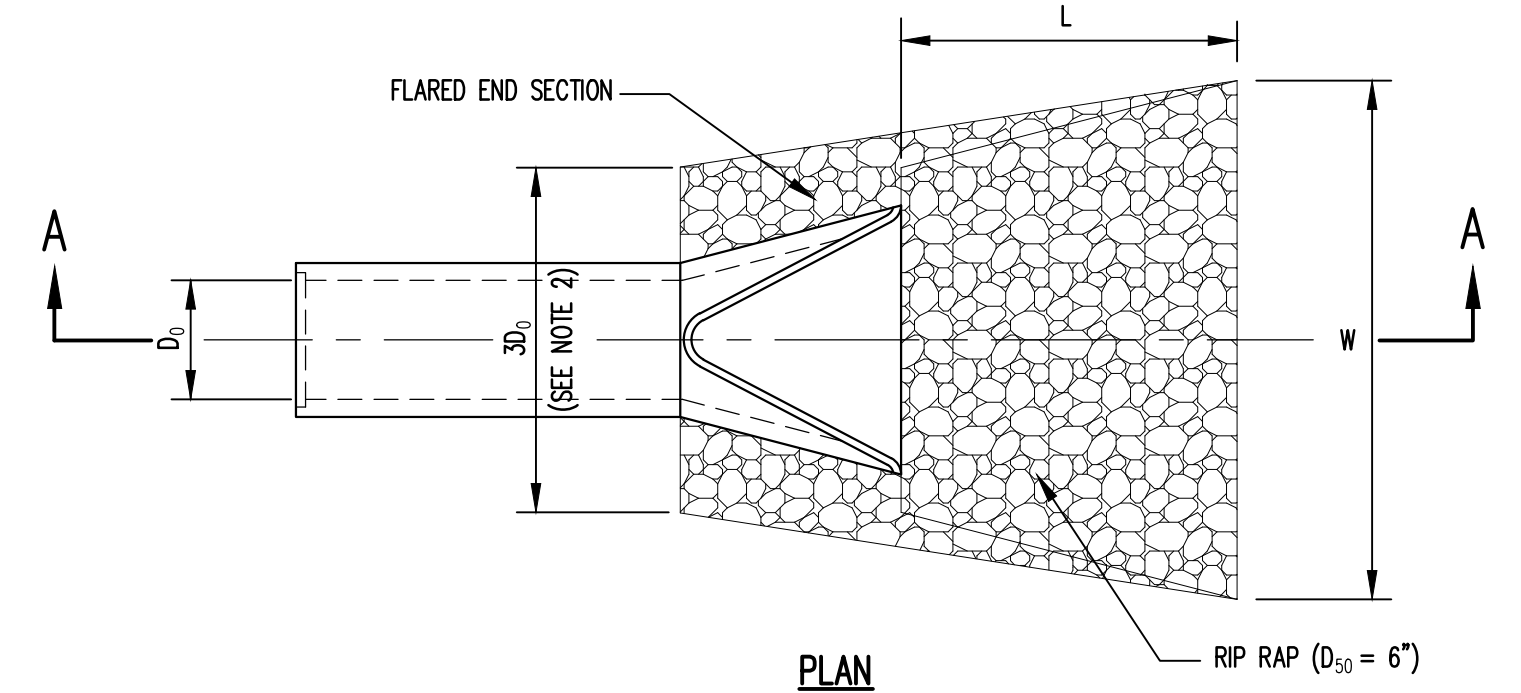


**GENERAL EROSION AND SEDIMENTATION CONTROL NOTES**

- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AS WELL AS APPLICABLE REGULATIONS.
- AN EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO, OR AS SOON AS PRACTICAL THEREAFTER, ANY LAND CLEARING OR CONSTRUCTION ACTIVITIES MAY BEGIN. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING SCHEDULE:
  - FLAG THE CLEARING LIMITS AND IDENTIFY ANY TREE PROTECTION AREAS WITH THE OWNER.
  - INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (WHERE NECESSARY).
  - CLEAR THE VEGETATED PORTION OF THE SITE AND INSTALL SILT AND STONE FILTER FENCING (WHERE REQUIRED) PRIOR TO STRIPPING/GRUBBING.
  - ONLY STRIP/GRUB AREAS REQUIRED FOR INSTALLATION OF STRUCTURES, BERMS AND DRAINAGE CHANNELS. OTHER AREAS WILL BE STRIPPED/GRUBBED ONCE SEDIMENT BASINS ARE COMPLETED.
  - COMPLETE INSTALLATION OF SEDIMENT BASINS.
  - PERFORM EARTHWORK AS REQUIRED FOR CONSTRUCTION. INSTALL DRAINAGE AND EROSION AND SEDIMENTATION CONTROL MEASURES AS AREAS ARE BROUGHT TO GRADE.
  - PERFORM FINE GRADING AND ESTABLISH PERMANENT VEGETATION ON COMPLETED AREAS.
  - AFTER STABILIZATION, REMOVE SILT FENCING AND OTHER TEMPORARY MEASURES AS DIRECTED BY THE OWNER AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:
  - THE REMOVAL AND SATISFACTORY DISPOSAL OF TRAPPED OR DEPOSITED SEDIMENTS FROM BASINS, TRAPS, BARRIERS, FILTERS, AND/OR DRAINAGE FEATURES/DEVICES.
  - REPLACEMENT OF FILTER FABRICS USED FOR SILT FENCES UPON LOSS OF EFFICIENCY; AND
  - REPLACEMENT OF ANY OTHER COMPONENTS WHICH ARE DAMAGED OR CANNOT SERVE THE INTENDED USE.
- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF THE SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
  - ALL PERIMETER DICES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3H:1V) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
  - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
  - BASINS, TRAPS, CHANNELS, AND DIVERSIONS SHALL BE LINED WITH ANCHORED ROLLED EROSION PRODUCTS OR RIP RAP AND/OR VEGETATED UPON CONSTRUCTION.
  - PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, THE CERTIFICATE OF APPROVAL, AND LETTER OF APPROVAL ARE TO BE KEPT ON SITE (BY OWNER).
- THE NPDES PERMIT (WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS) ARE TO BE KEPT ON SITE AND A RAIN GAUGE IS TO BE INSTALLED AND MAINTAINED FOR RECORD KEEPING UNTIL THE PROJECT IS CLOSED OUT BY THE LAND QUALITY SECTION REGIONAL OFFICE.
- UPON PROJECT COMPLETION, THE PERMITTEE SHALL CONTACT DEMR TO CLOSE OUT THE EROSION AND SEDIMENTATION CONTROL PLAN.



NOTE:  
1. D<sub>50</sub> REFERS TO THE MINIMUM REQUIRED AVERAGE STONE SIZE.



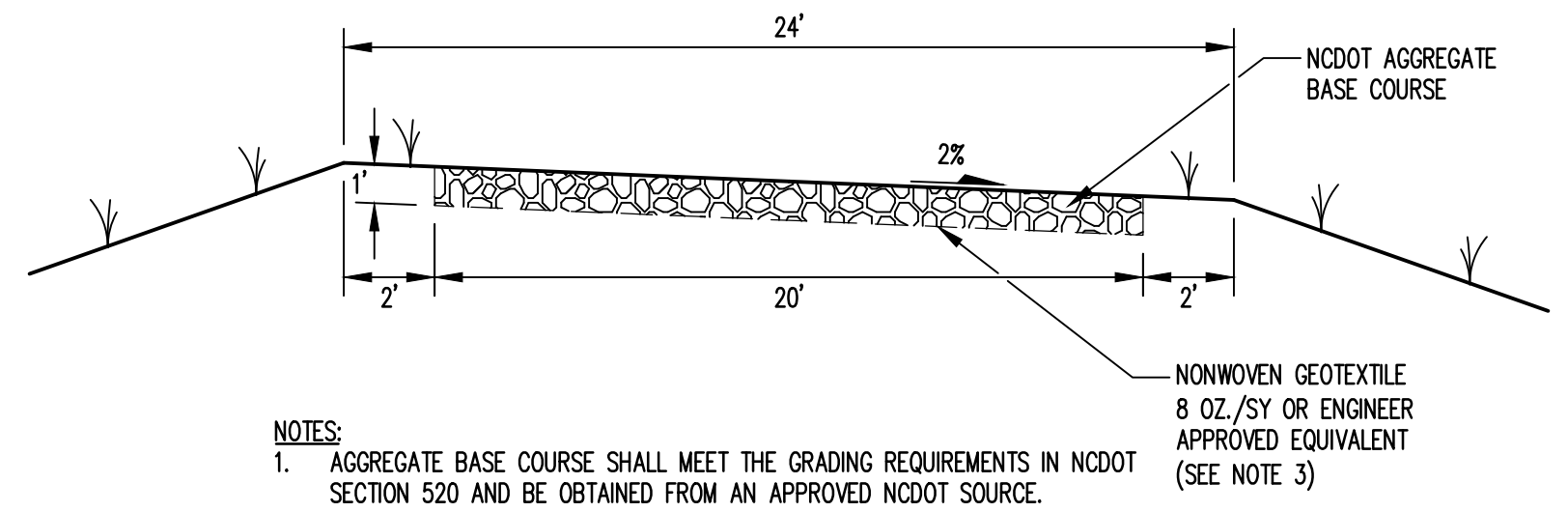
**RIP RAP OUTLET PROTECTION**



RIP RAP OUTLET PROTECTION SCHEDULE					
PIPE	D <sub>0</sub> (FT)	L (FT)	W (FT)	D <sub>50</sub> (FT)	X (FT)
C-1	1.25	6	7	0.5	2.0

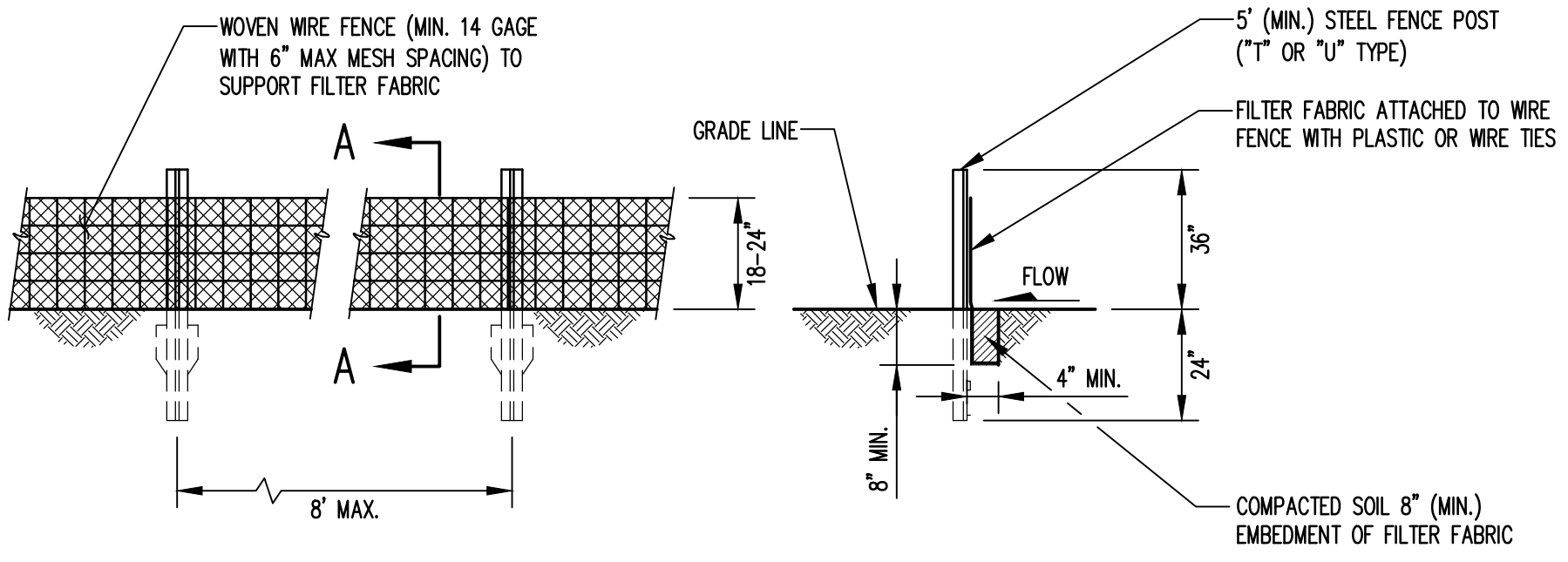
**GENERAL NOTES**

- THE SITE IS REQUIRED TO OBTAIN A NPDES CONSTRUCTION STORMWATER CERTIFICATE OF COVERAGE (COC) PRIOR TO INITIATING THE PROJECT.
- THE SITE IS REQUIRED TO FILE A NOTICE OF TERMINATION FOR THE COC AFTER THE PROJECT IS FINISHED.



- NOTES:
- AGGREGATE BASE COURSE SHALL MEET THE GRADING REQUIREMENTS IN NCDOT SECTION 520 AND BE OBTAINED FROM AN APPROVED NCDOT SOURCE.
  - AGGREGATE SHALL BE PLACED AND COMPACTED IN 8-INCH THICK (N-PLACE) LIFTS TO 100 PERCENT ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
  - GEOTEXTILE SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 180 LBS, MINIMUM PUNCTURE RESISTANCE OF 75 LBS, TRAPEZOIDAL TEAR OF 75 LBS, AND AOS OF LESS THAN 0.6 MM.

**ALL-WEATHER ACCESS ROAD**

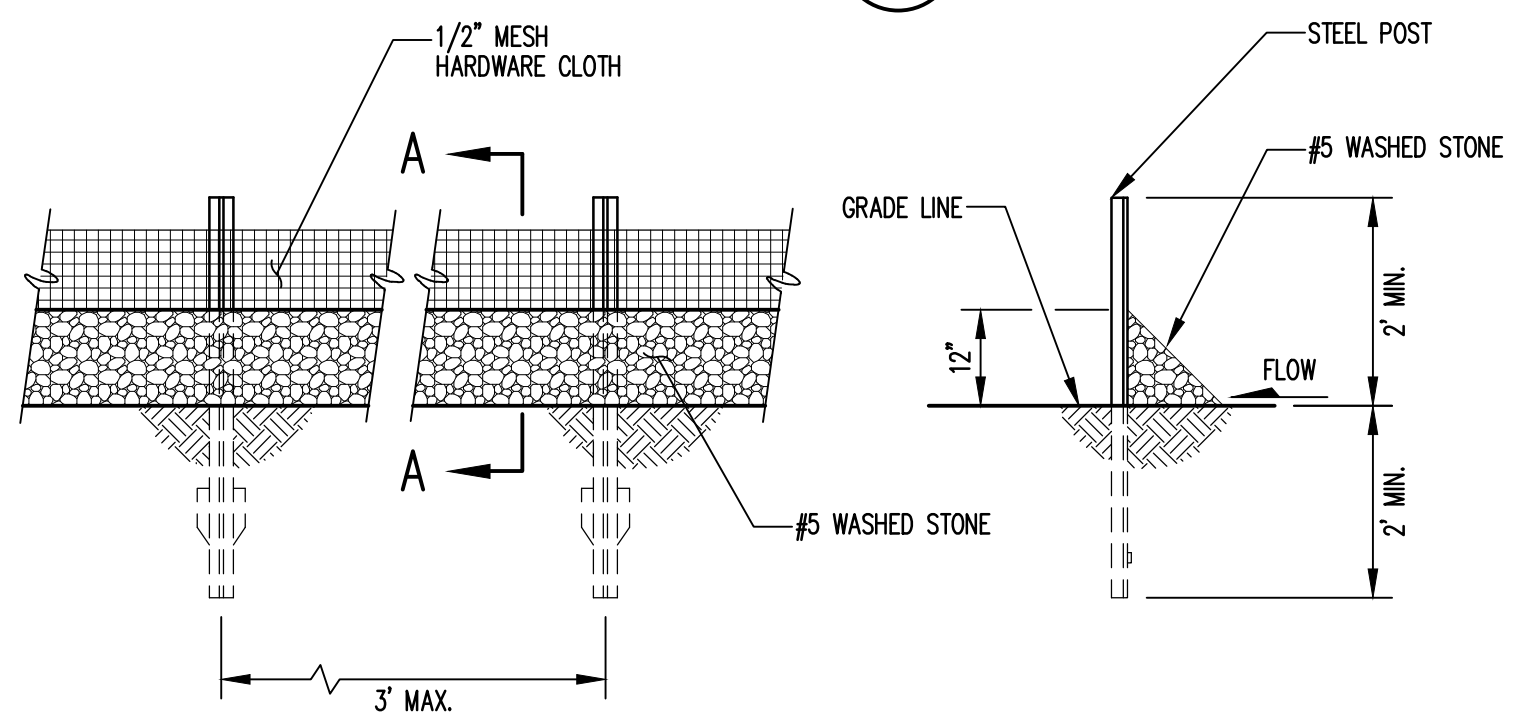


**ELEVATION**

**SECTION A-A**

- NOTE:  
1. PLACE 10' MIN. LENGTH OF STONE FILTER FENCE AT LOW POINTS ALONG SILT FENCE AND WHERE DIRECTED BY THE ENGINEER TO RELEASE WATER. SEE DETAIL 5 (EC1).

**SILT FENCE**



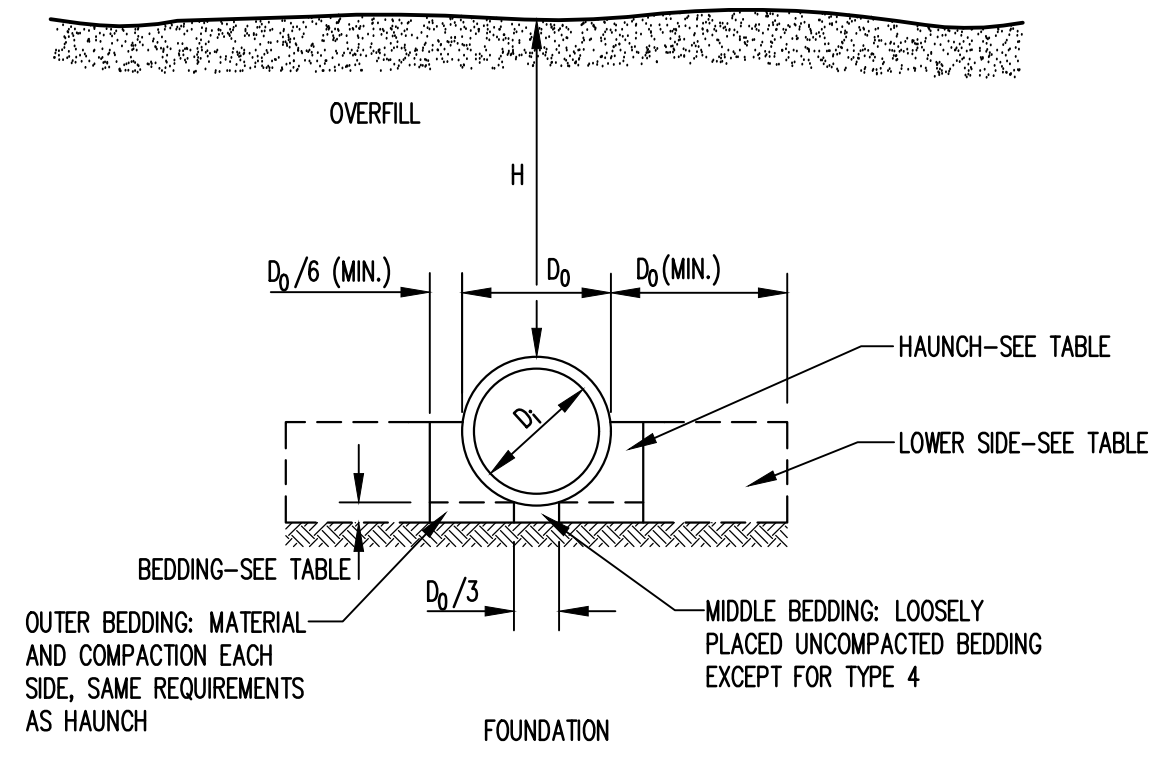
**ELEVATION**

**SECTION A-A**

**STONE FILTER FENCE**



CULVERT SCHEDULE						
NO.	SIZE	LENGTH (FT)	INV. IN (FEET)	INV. OUT (FEET)	SLOPE (%)	REMARKS
C-1	15" RCP (CLASS III)	45	97.3	97.0	5.6	



**CONCRETE PIPE INSTALLATION**



STANDARD EMBANKMENT INSTALLATION SOILS AND MINIMUM COMPACTION REQUIREMENTS			
INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	D <sub>0</sub> /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D <sub>0</sub> /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	95% SW, SP, GW, GP	90% SW, SP, GW, GP; 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 100% CL, MH, SC, GC, CH.
TYPE 2	D <sub>0</sub> /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D <sub>0</sub> /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	90% SW, SP, GW, GP; OR 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 3	D <sub>0</sub> /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D <sub>0</sub> /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE D <sub>0</sub> /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%

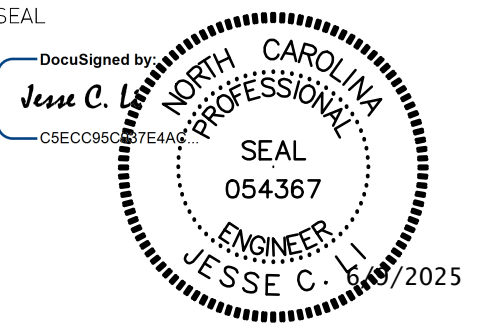
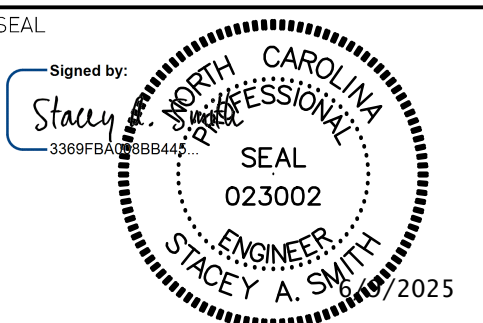
**NOTES:**

- COMPACTION AND SOIL SYMBOLS (95% SW) REFER TO SW SOIL MATERIAL (USCS CLASSIFICATION) WITH A MINIMUM STANDARD PROCTOR COMPACTION (ASTM D 698) OF 95%.
- SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT WITHIN D<sub>0</sub>/3 FROM THE PIPE SPRINGLINE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL ZONE.
- SUBTRENCHES:
  - A SUBTRENCH IS DEFINED AS A TRENCH WITH ITS TOP BELOW FINISHED GRADE BY MORE THAN 0.1H OR, FOR ROADWAYS, ITS TOP IS AT AN ELEVATION LOWER THAN 1'(0.3m) BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
  - THE MINIMUM WIDTH OF A SUBTRENCH SHALL BE 1.33 D<sub>0</sub> OR WIDER IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
  - FOR SUBTRENCHES WITH WALLS OF NATURAL SOIL, ANY PORTION OF THE LOWER SIDE ZONE IN THE SUBTRENCH WALL SHALL BE AT LEAST AS FIRM AS AN EQUIVALENT SOIL PLACED TO THE COMPACTION REQUIREMENTS SPECIFIED FOR THE LOWER SIDE ZONE AND AS FIRM AS THE MAJORITY IF THE SOIL IN THE OVERFILL ZONE, OR SHALL BE REMOVED AND REPLACED WITH SOIL COMPACTED TO THE SPECIFIED LEVEL.

PREPARED FOR:  
**CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA**

PREPARED BY:  
NC LIC. NO. F-1070 (ENGINEERING)  
SC COA NO. C01488

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REV.	DATE	DESCRIPTION
2	3/25	RE-BID
3	5/25	RE-BID
4	5/25	RE-BID ADDENDUM 1
5	6/25	RE-BID

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PROJECT TITLE:  
**ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER**

DRAWING TITLE:  
**EROSION & SEDIMENTATION  
CONTROL DETAILS  
(SHEET 1 OF 2)**

DESIGNED	J.C.L.	PROJECT NO.	CUMBERLAND 21-8
DRAWN	J.R.G.	SCALE	AS SHOWN
APPROVED	JCL	DATE	AUG. 2022
FILENAME	CUMBERLAND-D0159		
SHEET NUMBER	11	DRAWING NUMBER	EC1

**FOR BIDDING  
NOT FOR CONSTRUCTION**





PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Table with 3 columns: Inspect, Frequency (during normal business hours), and Inspection records must include:.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Table with 2 columns: Item to Document and Documentation Requirements.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Table with 2 columns: Occurrence and Reporting Timeframes (After Discovery) and Other Requirements.

PART II, SECTION G, ITEM (4)  
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PREPARED FOR:

CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA

PREPARED BY: NC LIC. NO. F-1070 (ENGINEERING)  
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Professional Engineer seals for Stacey A. Smith and Jesse C. Vesce, State of North Carolina.

Revision table with columns: REV., DATE, DESCRIPTION.

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PROJECT TITLE:  
ASSEMBLY COURT  
SOLID WASTE  
CONVENIENCE CENTER

DRAWING TITLE:  
SELF-INSPECTION,  
RECORDKEEPING,  
AND REPORTING (NCDEQ)

Project information table including Designer (J.C.L.), Project Title (CUMBERLAND 21-8), and Sheet Number (14 of NCG02).