

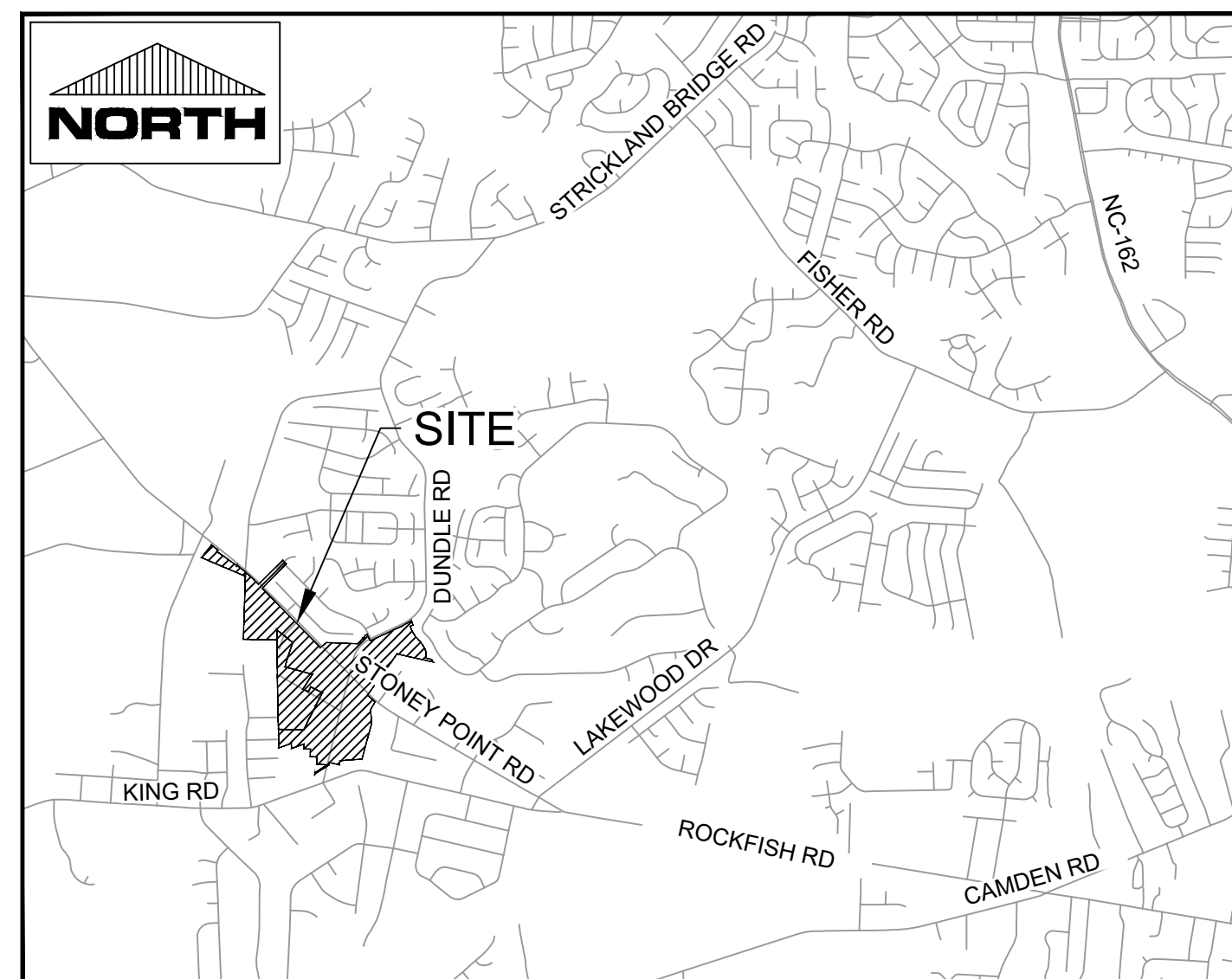


*Fayetteville's*  
**HOME TOWN UTILITY**  
**FAYETTEVILLE, N.C.**

**FAYETTEVILLE ANNEXATION PHASE V**  
**PROJECT XV, CONSTRUCTION AREA 32 EAST SECTION 2**  
**LOCATED NEAR THE INTERSECTION OF**  
**STONEY POINT RD (SR 1112) &**  
**DUNDLE RD (SR 1109)**  
**SEWER AND WATER PROJECT**  
**JULY 2025**

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VICINITY MAP  
 SCALE: 1" = 3000'



Know what's below.  
 Call before you dig.

**PWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
 WATER RESOURCES ENGINEERING  
**APPROVED FOR CONSTRUCTION**  
 Date: 07/31/2025



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**FINAL DESIGN - ISSUED FOR BID**

**GENERAL NOTES:**

- ACCESS TO SITES SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE CONSTRUCTION ENTRANCES, SILT FENCING, RESTORATION, ETC. ADDITIONAL MEASURES SHALL BE INCLUDED AS PART OF A SUPPLEMENTAL EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE CONSTRUCTION STAGING AREA AT HIS EXPENSE.
- THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK. PRIVATE AGREEMENTS WITH PROPERTY OWNERS MUST BE IN WRITING ON A FORM APPROVED BY THE ENGINEER AND A COPY SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES AFFECTED BY SAID AGREEMENT. THE AGREEMENT MUST SPECIFY THAT FAYPWC, THE CITY AND THE ENGINEER SHALL BE HELD HARMLESS AGAINST ALL CLAIMS ARISING FROM THE AGREEMENT. THE OWNER DISCOURAGES PRIVATE AGREEMENTS. BEFORE FINAL ACCEPTANCE, A RELEASE FROM EACH PROPERTY OWNER THAT THE CONTRACTOR HAS MADE AN AGREEMENT WITH SHALL BE REQUIRED. THE PROPERTY OWNER'S RELEASE IS A CONDITION OF FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL MAINTAIN A NEAT AND CLEAN JOB SITE, TO INCLUDE STAGING / STORAGE AREAS AS FOLLOWS:
  - PERFORM DUST CONTROL BY WATERING DAILY OR AS DIRECTED BY THE ENGINEER.
  - SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER.
  - BLADE, LEVEL, AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY (OR AS DIRECTED BY THE ENGINEER) TO PRODUCE A SMOOTH "RIDE".
  - PERFORM DAILY CLEAN-UP OF ALL DIRT, DEBRIS, AND SCRAP MATERIALS.
  - REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
- EXCESS SUITABLE SOIL EXCAVATED DURING CONSTRUCTION SHALL BE STOCKPILED FOR USE ON THE PROJECT OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE MATERIALS OR EXCESS MATERIALS IN THE STREET RIGHT-OF-WAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OR OVERNIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.
- THE CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE FENCE REMOVAL / REINSTALLATION WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. THE CONTRACTOR SHALL REINSTALL ALL SHEDS, FENCES, ETC. TO AS-GOOD OR BETTER-THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED. (NO SEPARATE PAYMENT).
- THE CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE AND PAVEMENT MARKINGS DISTURBED SHALL BE REPLACED IMMEDIATELY AND, IF NECESSARY, ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN A LOCATION CONSISTENT WITH THE NCDOT TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).
- THE CONTRACTOR SHALL PROVIDE SECURITY FENCING, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES THE CONTRACTOR DEEMS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).
- WHERE THE CONTRACTOR CEASES WORK OPERATIONS FOR A 72 HOUR PERIOD OR LONGER, SUCH AS HOLIDAYS, ETC., THE FOLLOWING SHALL BE ACCOMPLISHED PRIOR TO THE WORK STOPPAGE:
  - THE CONTRACTOR SHALL STORE ALL EQUIPMENT IN THE CONTRACTOR STAGING AREA OR OFF SITE.
  - THE CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP, AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATCHES.
- THE CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.
- THE CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS, THE CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION FOR A DISTANCE NOT GREATER THAN 1,800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- AT THE PROPERTY OWNER'S REQUEST, THE CONTRACTOR SHALL DIG UP EXISTING SHRUBS AND BUSHES WITHIN UTILITY EASEMENT TO BE DISTURBED BY CONSTRUCTION AND SET OUTSIDE THE UTILITY EASEMENT AREA IN A LOCATION DETERMINED BY THE PROPERTY OWNER (NO SEPARATE PAYMENT). THE PROPERTY OWNER WILL BE RESPONSIBLE FOR REPLANTING SHRUBS AND BUSHES SO REMOVED, AND SHALL BE RESPONSIBLE FOR RE-ESTABLISHING GROWTH. IF NO REQUEST IS MADE BY THE PROPERTY OWNER, DISTURBED SHRUBS AND BUSHES SHALL BE REMOVED AND DISPOSED OF OFF-SITE UNLESS OTHERWISE INDICATED.
- CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. THE CONTRACTOR SHALL LIMIT TREE/BUSH CLEARING IN THE TEMPORARY EASEMENTS, BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY THAT WHICH IS ABSOLUTELY NECESSARY FOR CONSTRUCTION.

**GENERAL NOTES (RESIDENT RELATIONS-REQUIRED):**

- WHEN THE PROPOSED WORK WILL BE CONSTRUCTED WITHIN A FULLY DEVELOPED SUBDIVISION OR OTHER RESIDENTIAL AREA, THE CONTRACTOR IS REQUIRED TO DEVELOP GOOD RELATIONS WITH THE RESIDENTS WHICH INCLUDES THE FOLLOWING MANDATORY MINIMUM REQUIREMENTS:
  - NO SPEEDING WITH EQUIPMENT AND/OR VEHICLES (25 MPH MAXIMUM).
  - DO NOT BLOCK DRIVEWAYS AT ANY TIME.
  - DO NOT LITTER AT ANY TIME.
  - DO NOT USE RESIDENTS' WATER WITHOUT THEIR PERMISSION (SIGNED AGREEMENT REQUIRED).
  - ALL REQUIREMENTS FOR BACK FLOW PREVENTION BY THE PLUMBING CODE WILL BE ADHERED TO.
  - RESPOND TO RESIDENTS' COMPLAINTS WITHIN 24 HOURS.
  - DO NOT USE ABUSIVE LANGUAGE, PROFANITY, OR CAT-CALLING.
  - WEAR PROPER PROTECTIVE CLOTHING (HARD HATS, PROPER SHOES, SHIRTS, ETC.).
  - MAINTAIN PROPER SAFETY MEASURES, PARTICULARLY ALONG OPEN TRENCHES, PLACING CONES ON RAISED MANHOLES, AND BACK FILLING OPEN TRENCHES IF CONSTRUCTION IS STOPPED AND THE OPEN TRENCH IS NOT MANNED.
  - PERSONNEL MUST WEAR CITY APPROVED SAFETY VEST AT ALL TIMES WHILE WORKING IN THE CITY AND/OR NCDOT RIGHT-OF-WAY.
  - ALL TRAFFIC CONTROL FLAG PERSONS AND AT LEAST ONE PERSON ON EACH WORK CREW MUST BE FLUENT IN THE ENGLISH LANGUAGE.
- IF THE CONTRACTOR AND/OR SUBCONTRACTORS CANNOT ADEQUATELY PERFORM AND/OR COMPLY WITH THESE REQUIREMENTS, THE INDIVIDUAL, SUBCONTRACTOR, OR EMPLOYEES MAY BE DIRECTED TO LEAVE THE PROJECT PERMANENTLY. INCONSIDERATE, NON-COOPERATIVE ATTITUDES AND ACTIONS WILL NOT BE TOLERATED.

**GENERAL UTILITY NOTES:**

- PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHT-OF-WAYS, THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (i.e. TELEPHONE, GAS, CABLE, ETC.).

- THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).
- ALL SANITARY SEWER AND WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE FAYETTEVILLE PUBLIC WORKS COMMISSION. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE SPECIFICATIONS.
- UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING REQUIREMENTS.
- WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER IDENTICAL NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND/OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- STORM DRAINAGE REPAIRS BY THE CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.
- NOT ALL UTILITIES THAT RUN PARALLEL ARE SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. UTILITIES THAT ARE NOT SHOWN MAY INCLUDE TELEPHONE, ELECTRIC, CABLE, FIBER OPTIC, ETC.
- CONTRACTOR SHALL INFORM EXISTING UTILITY OWNERS OF CONSTRUCTION SCHEDULE, SO THEY CAN BE ON CALL FOR ANY REPAIRS AND TO HELP PREVENT CONFLICTS.

**PROPOSED BACKWATER VALVE NOTE:**

- PROPOSED SANITARY SEWER SERVICE IS RECOMMENDED TO HAVE A BACKWATER VALVE ON THE PROPERTIES INDICATED WITH A [BV]. THIS VALVE SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY AND IS RECOMMENDED TO BE INSTALLED BY THE PROPERTY OWNER.

**PROPOSED GRINDER PUMP AND/ OR REVERSE PLUMBING NOTES:**

- PROPOSED SANITARY SEWER SERVICE MAY REQUIRE A GRINDER PUMP ON THE PROPERTIES INDICATED WITH A [GP]. THE GRINDER PUMP SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY AND IS RECOMMENDED TO BE INSTALLED BY THE PROPERTY OWNER.
- ON THE PROPERTIES INDICATED WITH A [RP], EXISTING CONDITIONS MAY ALLOW EXISTING PLUMBING TO BE REVERSED WITHIN CRAWL SPACE.

**WETLAND CONSTRUCTION REQUIREMENTS**

- THE CONSTRUCTION LIMITS/CORRIDOR (INCLUDING ROADS AND STOCKPILE AREA) SHALL BE KEPT TO A MAXIMUM 40 FOOT WIDTH.
- POST CONSTRUCTION GROUND CONTOURS AND ELEVATIONS MUST BE RESTORED TO THE ORIGINAL ELEVATIONS.
- THE TOP 6" TO 12" OF THE TRENCH SHALL BE BACKFILLED WITH THE TOPSOIL AND/OR SOIL EXISTING PRIOR TO CONSTRUCTION.
- EXCESS MATERIAL MUST BE REMOVED TO UPLAND AREAS AND DISPOSED OF OFF-SITE. TEMPORARY PLACEMENT/STOCKPILE FOR ABSOLUTE MINIMUM PERIOD OF TIME.
- DISTURBED SLOPES AND STREAM BANKS MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF THE UTILITY LINE OR IMMEDIATELY AT EACH STREAM CROSSING.
- ENGINEER AND/OR OWNER SHALL NOTIFY COE DISTRICT ENGINEER AND RECEIVE WRITTEN APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- INSTALL ANTI-SEEP COLLARS EVERY 150 FEET OR AS SHOWN ON PLANS.
- NO FERTILIZER SHALL BE APPLIED WITHIN 10 FEET OF STREAM.
- NO FRESH CONCRETE SHALL BE IN CONTACT WITH STREAMS.
- SEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFIED MIXTURE FOR WETLAND AREAS.

**TRAFFIC CONTROL NOTES**

- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS FOR WORK ZONE TRAFFIC CONTROL TO CITY TRAFFIC SERVICES DEPARTMENT (910-433-1680) FOR CITY STREETS AND TO MR. TROY BAKER (910-364-0601) FOR NCDOT STREETS. THE CONTRACTOR SHALL NOT PLACE ANY TRAFFIC CONTROL DEVICES WITHOUT HAVING APPROVAL FROM APPLICABLE TRANSPORTATION DEPARTMENT, EITHER NCDOT OR THE CITY OF FAYETTEVILLE.
- THE CONTRACTOR SHALL INSURE ACCESS TO ALL PROPERTIES BY PROPERTY OWNERS AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY CITY ENGINEERING OFFICE ONE WEEK IN ADVANCE OF ANY ROAD CLOSINGS AND COORDINATE ALL ROAD CLOSINGS/UTILITY INTERRUPTIONS WITH PROPERTY OWNERS AFFECTED 48 HOURS PRIOR TO CLOSING/INTERRUPTING SERVICES.
- MINIMUM ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS ROAD CLOSURE IS APPROVED IN WRITING, 5 DAYS IN ADVANCE OF ROAD CLOSURE. AN APPROVED DETOUR PLAN PREPARED BY THE CONTRACTOR SHALL BE REQUIRED AND THE MEASURES INSTALLED PRIOR TO CLOSURE.
- THE CONTRACTOR SHALL COORDINATE/NOTIFY TRAFFIC SERVICES DAILY (BEFORE 4:00PM) AS TO WHICH STREETS WILL BE UNDER CONSTRUCTION, IMPEDING TRAFFIC FLOW THE FOLLOWING DAY.
- THE CONTRACTOR SHALL NOT IMPEDE TRAFFIC AT ANY TIME UNTIL THE APPROVED TRAFFIC CONTROL DEVICES ARE IN PLACE.
- ALL TRAFFIC CONTROL MEASURES, DEVICES, INSTALLATION, METHODS, SEQUENCING AND PLANS SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SUPPLEMENTS SUCH AS NCDOT AND/OR CITY OF FAYETTEVILLE TRAFFIC SERVICES.

**NCDOT TEMPORARY CONSTRUCTION DRIVEWAY**

- THE TEMPORARY CONSTRUCTION DRIVEWAY SHALL BE REMOVED AND ALL DISTURBED PORTIONS OF RIGHT-OF-WAY RESTORED BY CONTRACTOR FOLLOWING ACCEPTANCE OF ALL WORK THAT SUCH ACCESS PROVIDED.
- CONTRACTOR TO ADHERE TO ALL APPLICABLE POLICIES AND REQUIREMENTS CONTAINED IN NCDOT'S "POLICY ON STREET AND DRIVEWAY ACCESS TO NORTH CAROLINA HIGHWAYS".

**SURVEY NOTES:**

- SURVEY PERFORMED BY: MCKIM & CREED (N.C. FIRM LICENSE # 1222), 919-233-8091 (OFFICE) 1730 VARSITY DRIVE, SUITE 500 RALEIGH, NORTH CAROLINA 27606
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED. ALL COORDINATES ARE GROUND COORDINATES IN US SURVEY FEET UNLESS OTHERWISE NOTED.
- THE HORIZONTAL DATUM IS NC GRID (NAD83/2001) IN U.S. SURVEY FEET. THIS PROJECT WAS GROUND LOCALIZED ABOUT NC GRID NCGS MONUMENT "NC 351" WITH A COMBINED FACTOR OF 0.99987759.
- THE VERTICAL DATUM IS (NAVD83) IN U.S. SURVEY FEET IS BASED ON NCGS MONUMENT "NC 351" WITH A GIVEN ELEVATION OF 216.69 FEET (NAVD83). THE CONTOUR INTERVAL SHOWN IS ONE FOOT.
- THIS SURVEY IS NOT INTENDED TO BE A BOUNDARY SURVEY OF THE PROPERTY SHOWN HEREON. ANY CALCULATED PROPERTY LINES SHOWN HEREON WERE DRAWN FROM FIELD LOCATED BOUNDARY EVIDENCE AND/OR RECORDED DEEDS AND MAPS AS NOTED HEREON.
- SPLIT-LEVEL DWELLINGS APPEAR TO HAVE A LOWER LEVEL FINISH FLOOR THAT IS ONLY ACCESSIBLE FROM INSIDE THE DWELLING. ACCESS TO SURVEY INTERIOR FLOORS WAS NOT ACCESSIBLE OR PROVIDED. IN THESE CASES, NO FINISH FLOOR ELEVATIONS WERE OBTAINED FOR THE INACCESSIBLE LEVELS. THE LOWEST ACCESSIBLE GROUND ELEVATION WAS OBTAINED AT THE DWELLING FOR ENGINEERING PURPOSES.
- THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A CERTIFIED TITLE REPORT AND THEREFORE THE PROPERTY SHOWN HEREON MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHT-OF-WAYS, EASEMENTS, RESTRICTIONS OF RECORD, OR OTHER ENCUMBRANCES NOT OBSERVED OR SHOWN HEREON.
- THE UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE LOCATIONS AND ARE BASED ON ABOVE GROUND FEATURES, PHYSICAL EVIDENCE, PAINT MARKINGS PROVIDED BY OTHERS, AND UTILITY PLANS. THE SURVEYOR DOES NOT GUARANTEE THAT ALL EXISTING UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS, PIPES, ETC. ARE LOCATED HEREON, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. NO EXCAVATIONS WERE MADE BY THE SURVEYOR TO LOCATE ANY BURIED UTILITIES OR STRUCTURES UNLESS OTHERWISE NOTED WITH THE EXCEPTION OF SUE LOCATIONS AS DEFINED IN ITEM 11.
- NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: FLOOD ZONES; UNDERGROUND STORAGE FACILITIES; GRAVES, CEMETERIES, OR BURIAL GROUNDS; HAZARDOUS WASTE DEPOSITS OR MATERIALS.
- SUE-BORE LOCATIONS SHOWN HEREON WERE FIELD MARKED AND SURVEYED BY MCKIM & CREED IN JANUARY 2022. ELEVATIONS SHOWN ARE CALCULATED RESULTS FROM DATA PROVIDED BY MCKIM & CREED.
- DATE OF FIELD SURVEY: JUNE 2019 - MARCH 2022
- WK DICKSON PROJECT # 2018000800\_RA
- WK DICKSON FILE NAME: 2018000800\_V\_XREF\_BASE.DWG

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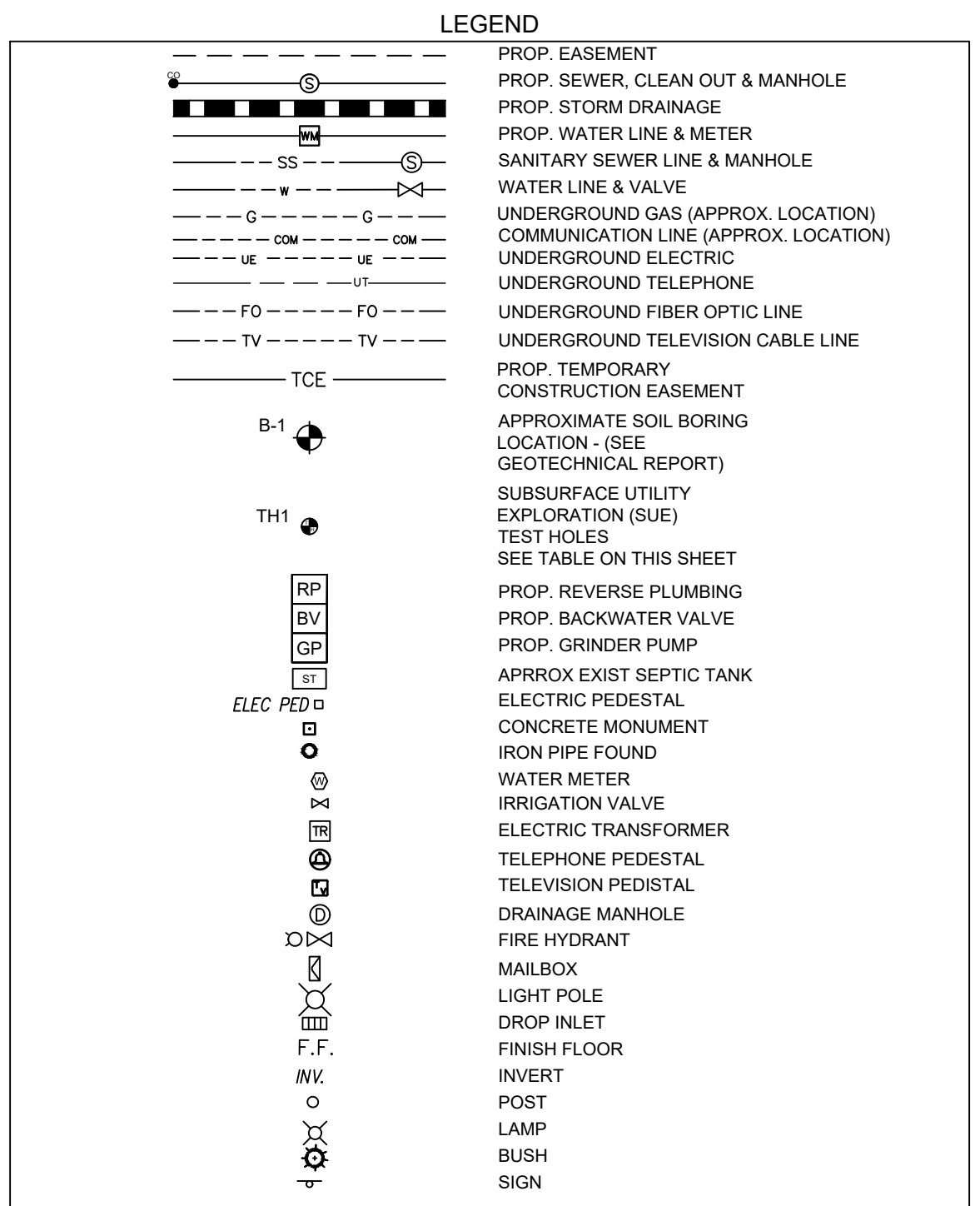
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**PROPOSED PLAN & PROFILE SHEET INDEX**

SCALE: 1" = 400'

HORIZONTAL DATUM IS NC GRID NAD1983/2001  
PROJECT CONTROL POINT IS:  
NC GRID NCGS MONUMENT "NC 351"  
PUBLISHED NC GRID COORDINATES  
N 452,276.16  
E 1,980,094.56  
COMBINED FACTOR 0.99987759  
ELEVATION 216.69 (NAVD 1988)



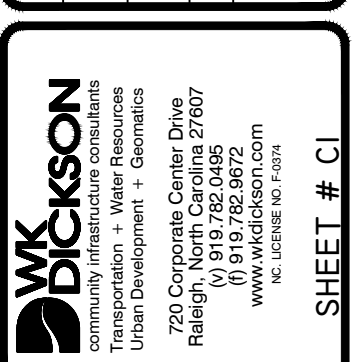
**AREA 32 EAST SECTION 2 SUBSURFACE UTILITY EXPLORATION (SUE) TEST HOLES**

|   |   |   |   |   |
|---|---|---|---|---|
| TH-1<br>HUB SET=206.62'<br>0.75"O.D. PE GAS<br>TOP DEPTH=2.49'<br>TOP ELEV=204.13'      | TH-2<br>HUB SET=208.78'<br>2.50"O.D. PE GAS<br>TOP DEPTH=3.17'<br>TOP ELEV=205.61'            | TH-3<br>HUB SET=208.75'<br>1" ELECTRIC CABLE<br>TOP DEPTH=1.89'<br>TOP ELEV=206.86'           | TH-4<br>HUB SET=208.83'<br>0.75"O.D. PE GAS<br>TOP DEPTH=2.30'<br>TOP ELEV=206.53'  | TH-5<br>HUB SET=216.65'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=3.42'<br>TOP ELEV=213.23'            |
| TH-6<br>HUB SET=213.72'<br>1" TELEPHONE CABLE<br>TOP DEPTH=2.55'<br>TOP ELEV=211.17'    | TH-7<br>HUB SET=213.97'<br>6.5"O.D. PE GAS<br>TOP DEPTH=4.16'<br>TOP ELEV=209.81'             | TH-8<br>HUB SET=213.83'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=2.96'<br>TOP ELEV=210.87'          | TH-9<br>HUB SET=212.15'<br>16" DIP WATER<br>TOP DEPTH=3.56'<br>TOP ELEV=208.59'   | TH-10<br>HUB SET=210.65'<br>2" ELECTRIC CABLE BUNDLE<br>TOP DEPTH=2.17'<br>TOP ELEV=208.48'     |
| TH-11<br>HUB SET=206.71'<br>12.5"O.D. PVC WATER<br>TOP DEPTH=4.29'<br>TOP ELEV=202.42'  | TH-12<br>HUB SET=207.50'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=2.49'<br>TOP ELEV=205.01'         | TH-13<br>HUB SET=206.85'<br>1" TELEPHONE CABLE<br>TOP DEPTH=3.22'<br>TOP ELEV=203.63'         | TH-14<br>HUB SET=206.90'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=3.93'<br>TOP ELEV=202.97'   | TH-15<br>HUB SET=207.36'<br>2.75"O.D. TELEPHONE CONDUIT<br>TOP DEPTH=4.96'<br>TOP ELEV=202.40'  |
| TH-16<br>HUB SET=207.48'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=3.17'<br>TOP ELEV=204.31'   | TH-17<br>HUB SET=207.54'<br>4.5"O.D. PVC TELEPHONE<br>TOP DEPTH=3.50'<br>TOP ELEV=204.04'     | TH-18<br>HUB SET=207.41'<br>1.5" TELEPHONE FIBER OPTIC<br>TOP DEPTH=5.27'<br>TOP ELEV=202.14' | TH-19<br>HUB SET=198.63'<br>1.5" TELEPHONE FIBER OPTIC<br>TOP DEPTH=3.06'<br>TOP ELEV=195.57'   | TH-20<br>HUB SET=199.69'<br>16" DIP WATER<br>TOP DEPTH=5.20'<br>TOP ELEV=194.49'                |
| TH-21<br>HUB SET=199.61'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=3.96'<br>TOP ELEV=195.65'   | TH-22<br>HUB SET=200.29'<br>1.25"O.D. ELECTRIC CONDUIT<br>TOP DEPTH=0.98'<br>TOP ELEV=199.31' | TH-23<br>HUB SET=201.11'<br>3.5" ELECTRIC CABLE BUNDLE<br>TOP DEPTH=1.96'<br>TOP ELEV=199.15' | TH-24<br>HUB SET=201.00'<br>3.5" ELECTRIC CABLE BUNDLE<br>TOP DEPTH=1.72'<br>TOP ELEV=199.28'   | TH-25<br>HUB SET=201.95'<br>(3/1)" ELECTRIC CABLE BUNDLE<br>TOP DEPTH=2.00'<br>TOP ELEV=199.95' |
| TH-26<br>HUB SET=200.66'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=2.86'<br>TOP ELEV=197.70'   | TH-27<br>HUB SET=200.94'<br>0.75" TELEPHONE CABLE<br>TOP DEPTH=3.33'<br>TOP ELEV=197.61'      | TH-28<br>HUB SET=205.65'<br>0.75" TELEPHONE CABLE<br>TOP DEPTH=3.29'<br>TOP ELEV=202.36'      | TH-29<br>HUB SET=205.24'<br>8.5"O.D. PVC WATER<br>TOP DEPTH=2.50'<br>TOP ELEV=202.74'   | TH-30<br>HUB SET=204.55'<br>16" PVC WATER<br>TOP DEPTH=5.18'<br>TOP ELEV=199.37'                |
| TH-31<br>HUB SET=207.19'<br>0.5" TELEPHONE CABLE<br>TOP DEPTH=3.59'<br>TOP ELEV=203.60' | TH-32<br>HUB SET=207.31'<br>2" TELEPHONE CONDUIT<br>TOP DEPTH=3.59'<br>TOP ELEV=203.72'       | TH-33<br>HUB SET=206.87'<br>1" TELEPHONE CABLE<br>TOP DEPTH=2.33'<br>TOP ELEV=204.54'         | TH-34<br>HUB SET=207.32'<br>NOTHING FOUND IN RECORD LINE LOCATION.<br>CLEARED TO 5.00'<br>CLEARED DEPTH=5.00'<br>CLEARED ELEV=202.32' | TH-35<br>HUB SET=214.58'<br>1.5" TELEPHONE CABLE<br>TOP DEPTH=1.70'<br>TOP ELEV=212.88'         |

NOTE: SEE PLAN AND PROFILE SHEETS C9 THROUGH C20 FOR HORIZONTAL LOCATIONS.

|     |            |            |
|-----|------------|------------|
| BY: | DATE:      | REVISIONS: |
|     | 07/28/2025 |            |

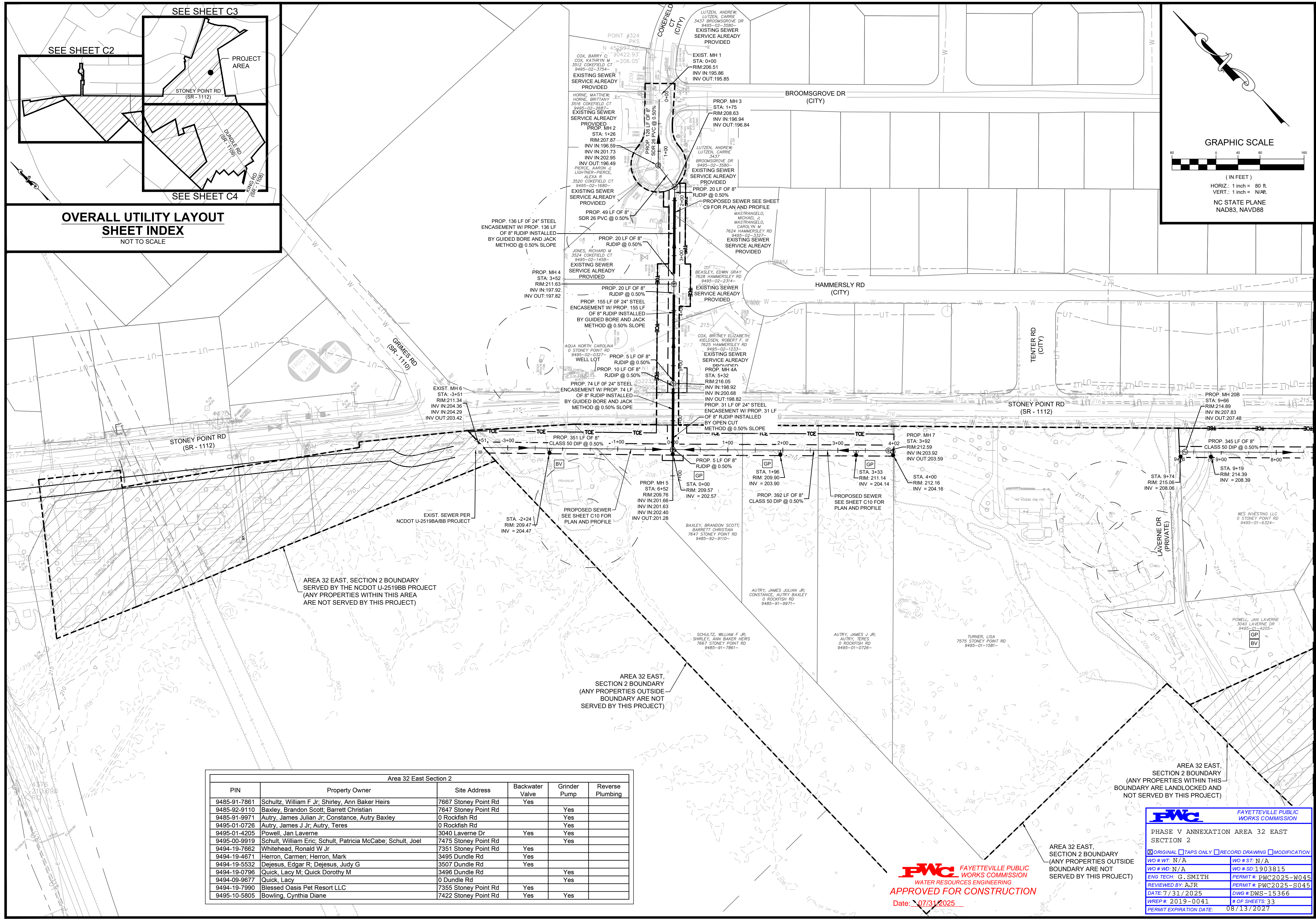
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SHEET # 12



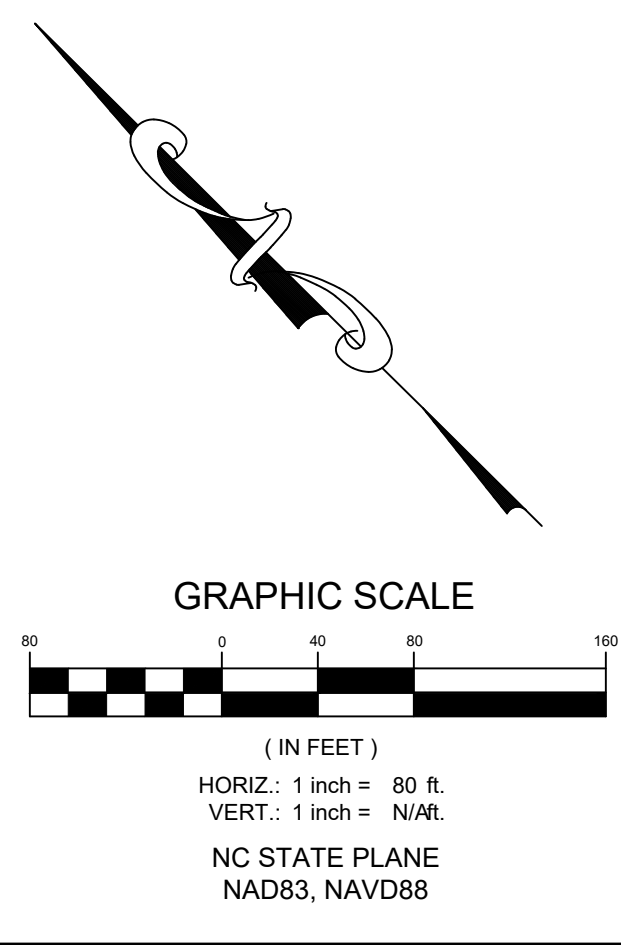
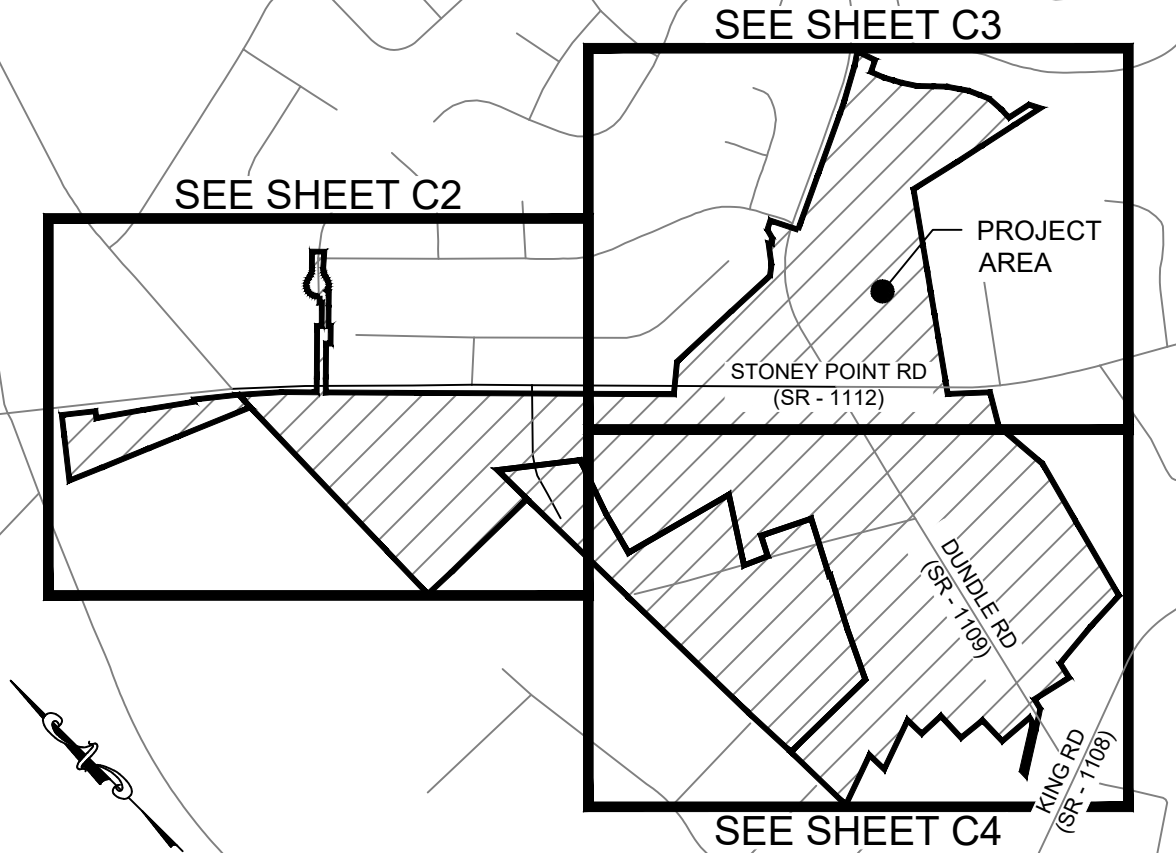
GENERAL NOTES  
PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
FAYETTEVILLE, NORTH CAROLINA

**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FAYETTEVILLE PUBLIC WORKS COMMISSION**  
P.O. Box 1088 Fayetteville, NC 28302  
856 Williamstown Road, Fayetteville, NC 28301

**FAYETTEVILLE PUBLIC WORKS COMMISSION**  
WATER RESOURCES ENGINEERING  
Engineers & Water Utilities



**OVERALL UTILITY LAYOUT  
SHEET INDEX**  
NOT TO SCALE



| Area 32 East Section 2 |   |                      |                 |              |                  |
|------------------------|---|----------------------|-----------------|--------------|------------------|
| PIN                    | Property Owner  | Site Address         | Backwater Valve | Grinder Pump | Reverse Plumbing |
| 9485-91-7861           | Schultz, William F Jr; Shirley, Ann Baker Heirs             | 7867 Stoney Point Rd | Yes             |              |                  |
| 9485-92-9110           | Baxley, Brandon Scott; Barrett Christian                    | 7847 Stoney Point Rd |                 | Yes          |                  |
| 9485-91-9971           | Autry, James Julian Jr; Constance, Autry Baxley             | 0 Rockfish Rd        |                 | Yes          |                  |
| 9495-01-0726           | Autry, James J Jr; Autry, Teres                             | 0 Rockfish Rd        |                 | Yes          |                  |
| 9495-01-4205           | Powell, Jan Laverne   | 3040 Laverne Dr      | Yes             | Yes          |                  |
| 9495-00-9919           | Schult, William Eric; Schult, Patricia McCabe; Schult, Joel | 7475 Stoney Point Rd |                 | Yes          |                  |
| 9494-19-7892           | Whitehead, Ronald W Jr                                      | 7351 Stoney Point Rd | Yes             |              |                  |
| 9494-19-4671           | Herron, Carmen; Herron, Mark                                | 3495 Dundie Rd       | Yes             |              |                  |
| 9494-19-5532           | Dejesus, Edgar R; Dejesus, Judy G                           | 3507 Dundie Rd       | Yes             |              |                  |
| 9494-19-0796           | Quick, Lacy M; Quick Dorothy M                              | 3496 Dundie Rd       |                 | Yes          |                  |
| 9494-09-9677           | Quick, Lacy   | 0 Dundie Rd          |                 | Yes          |                  |
| 9494-19-7990           | Blessed Oasis Pet Resort LLC                                | 7355 Stoney Point Rd | Yes             |              |                  |
| 9495-10-5805           | Bowling, Cynthia Diane                                      | 7422 Stoney Point Rd | Yes             | Yes          |                  |

**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
APPROVED FOR CONSTRUCTION  
Date: 07/31/2025

| FAYETTEVILLE PUBLIC WORKS COMMISSION         |                                       |
|--|---------------------------------------|
| PHASE V ANNEXATION AREA 32 EAST SECTION 2    |                                       |
| <input checked="" type="checkbox"/> ORIGINAL | <input type="checkbox"/> TAPS ONLY    |
| <input type="checkbox"/> RECORD DRAWING      | <input type="checkbox"/> MODIFICATION |
| WO # WT: N/A                                 | WO # ST: N/A                          |
| WO # WD: N/A                                 | WO # SD: 1903815                      |
| ENG TECH: G. SMITH                           | PERMIT #: PWC2025-W045                |
| REVIEWED BY: AJR                             | PERMIT #: PWC2025-S045                |
| DATE: 7/31/2025                              | DWG # DWS-15366                       |
| WRFP #: 2019-0041                            | # OF SHEETS: 33                       |
| PERMIT EXPIRATION DATE: 08/13/2027           |                                       |

MATCHLINE SEE SHEET C4 MATCHLINE SEE SHEET C3

DATE: 07/28/2025  
SURVEY/GPS BY: MBC/GPI  
DRAWN BY: VAR  
CHECKED BY: AMH  
SCALE: HORIZ. 1" = 80  
VERT. 1" = 80

**DICKSON**  
Professional Engineers  
770 Corporate Center Drive  
Fayetteville, NC 28302  
www.dickson.com

**STATE OF NORTH CAROLINA**  
Professional Engineer  
049209  
MICHAEL E. YOUNGBLOOD  
07/28/2025

**OVERALL UTILITY LAYOUT**  
PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
FAYETTEVILLE, NORTH CAROLINA

**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FWC** WATER RESOURCES ENGINEERING  
P.O. Box 1081, Fayetteville, NC 28302  
855 5th Wilmington Road, Fayetteville, NC 28301

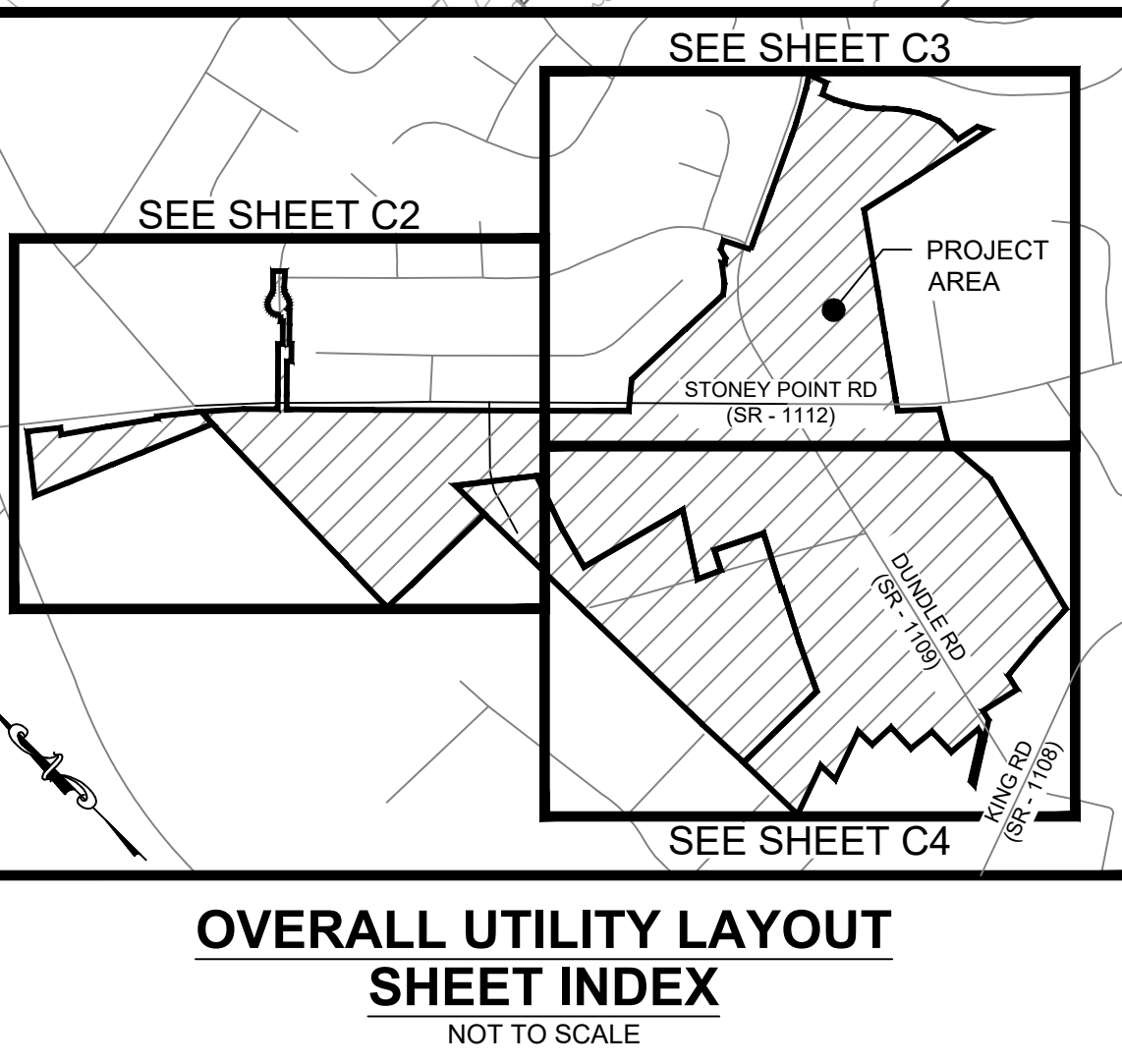
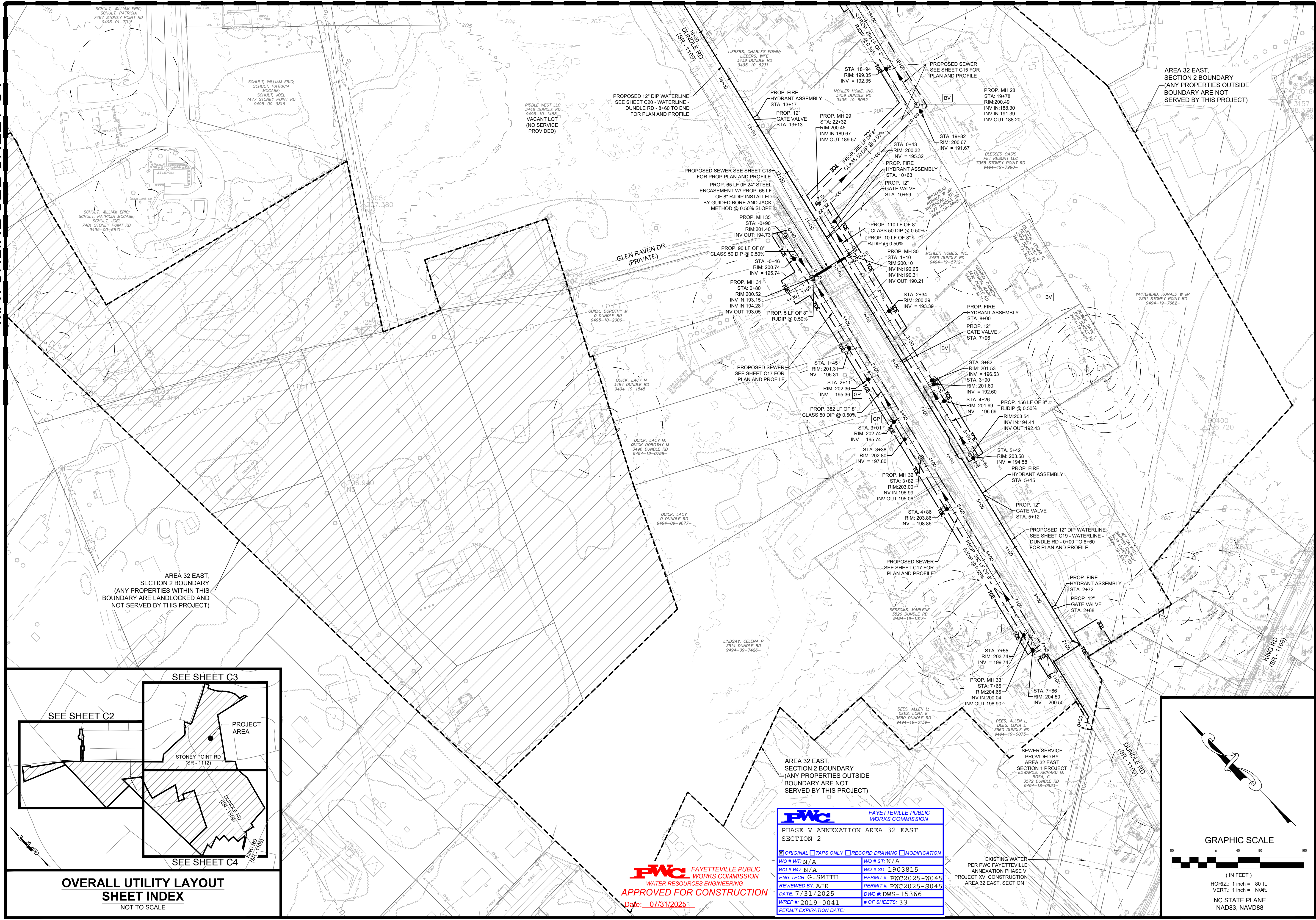
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PWC DWG # DWS-15366



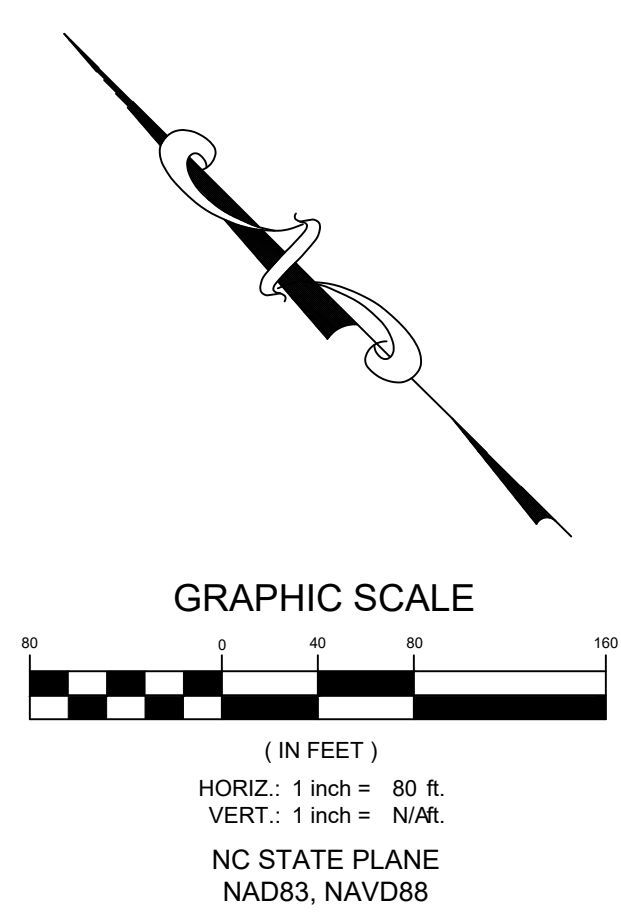
MATCHLINE SEE SHEET C3

MATCHLINE SEE SHEET C1



|   |                                       |
|---|---------------------------------------|
| <b>FWC</b> FAYETTEVILLE PUBLIC WORKS COMMISSION |                                       |
| PHASE V ANNEXATION AREA 32 EAST SECTION 2       |                                       |
| <input checked="" type="checkbox"/> ORIGINAL    | <input type="checkbox"/> TAPS ONLY    |
| <input type="checkbox"/> RECORD DRAWING         | <input type="checkbox"/> MODIFICATION |
| WO # WT: N/A                                    | WO # ST: N/A                          |
| WO # WD: N/A                                    | WO # SD: 1903815                      |
| ENG TECH: G. SMITH                              | PERMIT #: PWC2025-W045                |
| REVIEWED BY: AJR                                | PERMIT #: PWC2025-S045                |
| DATE: 7/31/2025                                 | DWG # DWS-15366                       |
| WREP #: 2019-0041                               | # OF SHEETS: 33                       |
| PERMIT EXPIRATION DATE:                         |                                       |

**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
**APPROVED FOR CONSTRUCTION**  
Date: 07/31/2025



|                        |                        |
|------------------------|------------------------|
| DATE: 07/28/2025       | DATE: 07/28/2025       |
| SURVEY/GPS BY: MBO/GPI | SURVEY/GPS BY: MBO/GPI |
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| CHECKED BY: AMH        | CHECKED BY: AMH        |
| SCALE: HORIZ. 1" = 80' | SCALE: VERT. 1" = 80'  |

DATE: 07/28/2025  
SURVEY/GPS BY: MBO/GPI  
DRAWN BY: VAR  
CHECKED BY: AMH  
SCALE: HORIZ. 1" = 80'  
SCALE: VERT. 1" = 80'



**OVERALL UTILITY LAYOUT**  
PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
FAYETTEVILLE, NORTH CAROLINA

**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FWC** WATER RESOURCES ENGINEERING  
P.O. Box 1088, Fayetteville, NC 28302  
855 Old Wilmington Road, Fayetteville, NC 28301  
20180008.00.PA

**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENTATION CONTROL HANDBOOK (LUMP SUM PAYMENT FOR ALL EROSION/ SEDIMENTATION CONTROL MEASURES, INCIDENTALS, MAINTENANCE, REMOVAL, ETC.)
- THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BURROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND NCDENR REGIONAL OFFICE FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE OWNER'S REPRESENTATIVE A COPY OF THE AMENDED PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES, OTHER THAN THOSE SHOWN ON PLANS, NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY EITHER NCDENR OR THE OWNER'S REPRESENTATIVE. (NO SEPARATE PAYMENT).
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ALL AREAS INTERRUPTED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SOODED OR SEEDED AS INDICATED AND STABILIZED.
- DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. (NO SEPARATE PAYMENT). NCDENR'S FINAL APPROVAL IS REQUIRED.
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES INTO NON-PAVED AREA (NO SEPARATE PAYMENT). FOR TEMPORARY DRIVEWAY ACCESS WITHIN NCDOT RIGHT OF WAY CONTRACTOR SHALL ADHERE TO NCDOT'S "POLICY ON STREET AND DRIVEWAY ACCESS TO NORTH CAROLINA HIGHWAYS" AND PROVIDE APPLICABLE PERFORMANCE AND INDEMNITY BOND UNLESS OTHERWISE NOTED. FOR EXISTING PRIVATE DRIVEWAYS WHICH WILL ACCOMMODATE CONSTRUCTION ENTRANCES, CONTRACTOR SHALL MAKE DRIVEWAYS ACCOMMODATING FOR CONTINUED USE BY RESIDENTS/ PROPERTY OWNERS AND INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT END OF PRIVATE DRIVE OR WHERE CONSTRUCTION ENTRANCE VEERS FROM PRIVATE DRIVEWAY. TEMPORARY CONSTRUCTION ENTRANCE TO COMPLY WITH EROSION AND SEDIMENTATION GUIDE LINES.
- WHEN CROSSING CREEK OR DRAINAGE-WAY, THE CONTRACTOR SHALL INSTALL RIP-RAP WITH FABRIC ON DISTURBED BANKS AND CHANNEL AND RESTORE SLOPES TO ORIGINAL CONTOURS, BUT NOT STEEPER THAN 2:1 MAXIMUM. DISTURBED CREEK AREA SHALL BE STABILIZED IMMEDIATELY.
- LIMITS OF CONSTRUCTION ARE THE CITY OF FAYETTEVILLE/ NCDOT STREET RIGHT OF WAYS AND EASEMENTS AS SHOWN ON PLANS.
- THE CONSTRUCTION DISTURBED AREA SHALL NOT EXCEED 10 ACRES.

**EROSION CONTROL MAINTENANCE PLAN**

- ALL EROSION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL UTILITY TRENCHES ARE TO BE PROTECTED FROM WATER INFILTRATION.
- SPOIL PILES ARE TO BE CONTAINED AT ALL TIMES.
- ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SPECIFICATIONS TO MAINTAIN A VIGOROUS, DENSE VEGETATION COVER. IF SEEDING FAILURE OCCURS, THOSE AREAS SHALL BE RE-SEEDED WITH ANNUAL VEGETATION, SUITABLE FOR THE TIME OF YEAR FOR TEMPORARY STABILIZATION AND PREPARED FOR PERMANENT SEEDING. SEEDING AND MULCHING WILL BE IN ACCORDANCE WITH SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION CONTROL MEASURES AT ALL TIMES, WHETHER INSTALLED ACCORDING TO PLAN OR AS DIRECTED BY THE NCDENR REPRESENTATIVE OR THE OWNER'S REPRESENTATIVE (NO SEPARATE PAYMENT).

**GROUND COVER STATUTES**

PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS (SEE TABLE BELOW FOR TIME FRAMES) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

| GROUND STABILIZATION*   |                          |  |
|---|--------------------------|--|
| SITE AREA DESCRIPTION   | STABILIZATION TIME FRAME | STABILIZATION TIME FRAME EXCEPTIONS  |
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES   | 7 DAYS                   | NONE   |
| HIGH QUALITY WATER (HOW) ZONES  | 7 DAYS                   | NONE   |
| SLOPES STEEPER THAN 3:1   | 7 DAYS                   | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER   | 14 DAYS                  | 7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH                                       |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1  | 14 DAYS                  | NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)   |
| *EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE. (SECTION II.B(2)(B)) |                          |  |

**PLANNED SEDIMENTATION AND EROSION CONTROL PRACTICES**

THE FOLLOWING EROSION CONTROL ITEMS WILL BE CONSTRUCTED AS SHOWN ON THE ATTACHED EROSION CONTROL DETAILS AND PLAN:

- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT:** TO PROVIDE A BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP CONTROL DUST.
- MAINTENANCE:** MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS WILL REQUIRE PERIODIC TOP DRESSINGS WITH 1/2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.
- TEMPORARY SEEDING:** TO BE INSTALLED AS PER SEEDING SPECIFICATIONS.
- PERMANENT SEEDING:** TO BE INSTALLED AS PER SEEDING SPECIFICATIONS. FERTILIZER, SEEDING AND MULCHING, TO BE INSTALLED AS PER TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS.
- SODDING:** TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF BY STABILIZING THE SOIL SURFACE WITH PERMANENT VEGETATION.
- MAINTENANCE:** AFTER THE FIRST WEEK WATER AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE AND PREVENT DORMANCY OF THE SOD. DO NOT REMOVE MORE THAN ONE-THIRD OF THE SOD IN ANY MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2 AND 3 INCHES. AFTER THE FIRST GROWING SEASON, ESTABLISHED SOD REQUIRES FERTILIZATION, AND MAY ALSO REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS WHEN POSSIBLE.
- MULCHING:** TO PROTECT THE SOIL SURFACE FROM THE FORCES OF RAINFALL IMPACT AND OVERLAND FLOW. MULCH FOSTERS THE GROWTH OF VEGETATION, INSULATES THE SOIL, AND SUPPRESSES WEED GROWTH. MULCH IS FREQUENTLY USED TO ACCENT LANDSCAPE PLANTINGS.
- MAINTENANCE:** INSPECT ALL MULCHES PERIODICALLY, AND AFTER REINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION OR FAILURE. WHERE EROSION IS OBSERVED, APPLY ADDITIONAL MULCH. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. CONTINUE INSPECTIONS UNTIL VEGETATION IS FULLY ESTABLISHED.

**EROSION CONTROL NETTING AND MATTING:** TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF, AND STABILIZING THE SOIL COVER, IN PARTICULAR, IN CRITICAL AREAS INCLUDING SWALES, LONG CHANNELS AND SLOPES.

- MAINTENANCE:** INSPECT ALL EROSION CONTROL FABRICS, MATS AND LINERS PERIODICALLY AND AFTER REINSTORMS TO CHECK FOR EROSION, DISLOCATION OR FAILURE. WHERE EROSION IS OBSERVED, APPLY AND SECURE ADDITIONAL FABRIC. IF WASHOUT OCCURS, REPAIR SLOPE GRADE, RESEED & SECURE LINER/ MAT. CONTINUE INSPECTIONS UNTIL DISTURBANCE IS STABILIZED AND VEGETATION IS ESTABLISHED.
- RRIP-RAP:** TO PROTECT THE SOIL SURFACE FROM EROSION FORCES AND/OR IMPROVE STABILITY OF SOIL SLOPES THAT ARE SUBJECT TO SEEPAGE OR HAVE POOR SOIL STRUCTURE.
- MAINTENANCE:** IN GENERAL, ONCE A RRIP-RAP INSTALLATION HAS BEEN PROPERLY DESIGNED AND INSTALLED IT REQUIRES VERY LITTLE MAINTENANCE. RRIP-RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR CAROLINA HIGHWAYS" AND PROVIDE APPLICABLE PERFORMANCE AND INDEMNITY BOND UNLESS OTHERWISE NOTED. FOR EXISTING PRIVATE DRIVEWAYS WHICH WILL ACCOMMODATE CONSTRUCTION ENTRANCES, CONTRACTOR SHALL MAKE DRIVEWAYS ACCOMMODATING FOR CONTINUED USE BY RESIDENTS/ PROPERTY OWNERS AND INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT END OF PRIVATE DRIVE OR WHERE CONSTRUCTION ENTRANCE VEERS FROM PRIVATE DRIVEWAY. TEMPORARY CONSTRUCTION ENTRANCE TO COMPLY WITH EROSION AND SEDIMENTATION GUIDE LINES.

**OUTLET STABILIZATION STRUCTURE:** TO BE INSTALLED AS A PERMANENT STABILIZATION MEASURE AT THE OUTLET OF A CHANNEL OR CONDUIT BY REDUCING THE VELOCITY OF FLOW AND DISSIPATING ENERGY. THESE MEASURES WILL BE LOCATED PER PLANS AND CONSTRUCTED PER THE DETAIL.

- MAINTENANCE:** INSPECT THE RIP-RAP OUTLET STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER) TO SEE IF ANY EROSION AND/OR BELOW THE RIP-RAP HAS TAKEN PLACE, OR IF THE STONES ARE BEING DISLOGGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

**ROCK PILE INLET PROTECTION:** SIMILAR TO BLOCK AND GRAVEL INLET PROTECTION. THIS MEASURE IS USED TO HELP PREVENT SEDIMENT FROM ENTERING, ACCUMULATING IN AND BEING TRANSFERRED BY A STORM DRAINAGE SYSTEM PRIOR TO STABILIZATION OF DISTURBED AREA. THIS MEASURE ALLOWS EARLY USE OF THE STORM DRAINAGE SYSTEM.

- MAINTENANCE:** INSPECT THE ROCK PILE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER) AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING. CHECK THE STRUCTURE FOR DAMAGE. ANY RIP-RAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY. AFTER ALL THE SEDIMENT PRODUCING AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER.

**TEMPORARY SILT FENCE & SUPER SILT FENCE:** WILL RETAIN SEDIMENT FROM SMALL DISTURBED AREAS. SILT FENCE WILL BE PLACED ALONG SLOPES AS SHOWN ON CONSTRUCTION DETAILS.

- MAINTENANCE:** INSPECT SEDIMENT FENCES AT LEAST WEEKLY 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 PREVENT PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT. 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.

**CHECK DAM:** WILL BE INSTALLED TO REDUCE EROSION BY REDUCING THE VELOCITY OF THE FLOW.

- MAINTENANCE:** INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER) AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRIP LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIP-RAP LINER IN THE PORTION OF THE CHANNEL.

**REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND ACROSS SECTION.**

**SILT BAG CURB INLET FILTER:** WILL BE INSTALLED AROUND CURB INLETS, EITHER EXISTING OR PROPOSED, TO PREVENT SEDIMENT FROM REACHING THE INLET AND THEREFORE THE DOWNSTREAM SECTIONS. THESE MEASURES WILL BE LOCATED PER THE PLANS AND CONSTRUCTED PER THE DETAIL.

**MAINTENANCE:** INSPECT THE BARRIER WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER) AND MAKE REPAIRS AS NEEDED. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF THE UNIT AFTER EACH STORM EVENT. REMOVE THE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONFINEMENT AREA OF THE UNIT AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE UNIT.

**SILT SACK:** WILL BE INSTALLED WITHIN CURB INLETS, EITHER EXISTING OR PROPOSED, TO PREVENT SEDIMENT FROM REACHING THE INLET AND THEREFORE THE DOWNSTREAM SECTIONS. THESE MEASURES WILL BE LOCATED PER THE PLANS AND CONSTRUCTED PER THE DETAIL.

**MAINTENANCE:** INSPECT THE BARRIER WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER) AND MAKE REPAIRS AS NEEDED. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE VICINITY OF THE UNIT AFTER EACH STORM EVENT. AFTER STORM EVENT AND AT REGULAR INTERVALS, VISUALLY INSPECT EACH UNIT. IF THE CONFINEMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED, TO EMPTY UNIT, REMOVE THE GRATE AND REMOVE THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE UNIT.

**CONSTRUCTION SEQUENCE:**

- OBTAIN ALL PERMITS AND PLAN APPROVALS.
- ATTEND PRECONSTRUCTION MEETING.
- INSTALL GRAVEL CONSTRUCTION ENTRANCES, SILT FENCING, TREE PROTECTION, CHECK DAMS, AND TEMPORARY INLET PROTECTION.
- INSTALL TEMPORARY INLET PROTECTION DEVICES AT ALL DRIVEWAY CULVERTS.
- CLEAR AND GRUB PERMANENT EASEMENTS AND ONLY THOSE PORTIONS OF THE TEMPORARY EASEMENTS NECESSARY FOR CONSTRUCTION.
- INSTALL SEWER MAINS IMPROVEMENTS IN EASEMENTS. STRIP TOPSOIL DURING TRENCHING OPERATIONS AND SEPARATE FROM EXCAVATED MATERIAL. MATERIAL EXCAVATED SHALL BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION WITH THE TRENCH BETWEEN THE MATERIAL AND THE SEDIMENT FENCE.
- INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES BI-WEEKLY OR AFTER EVERY RAINFALL EVENT.
- REMOVE ASPHALT IN STREETS ALONG SEWER MAINS BY MILLING WITH ZIPPER TYPE EQUIPMENT (3000' MAXIMUM DISTURBANCE), REPLACE CUTTINGS BACK ON ROAD AND COMPACT.
- PLACE ABC STONE AS CONSTRUCTION PROGRESSES TO PAVEMENT SURFACE.
- INSTALL SEWER LATERALS, PLACE ABC STONE AS CONSTRUCTION PROGRESSES TO SURFACE OF THE ASPHALT.
- TEST AND INSPECT SEWER MAIN AND LATERALS.
- PATCH ALL PAVED SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY ASPHALT PATCH.
- SEED AND MULCH OR SOD ALL DISTURBED AREAS NOT OTHERWISE IMPROVED AND ESTABLISH PERMANENT GROUND COVER AS INDICATED.
- PRELIMINARY FINAL INSPECTION BY CONTRACTOR.
- PRELIMINARY FINAL INSPECTION BY OWNER AND CONTRACTOR (PUNCH LIST).
- CONTRACTOR SHALL OVERLAY ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES.
- FINAL INSPECTION.
- REMOVE TEMPORARY MEASURES.
- CLOSE OUT PROJECT.

**SEEDING SCHEDULE**

TO BE IN ACCORDANCE WITH FPWC SPECIFICATIONS.

SEED SHALL BE SEED CERTIFIED TO BE THE LATEST SEASONS CROP AND SHALL BE DELIVERED IN ORIGINAL SEALED PACKAGES BEARING THE PRODUCER'S GUARANTEED ANALYSIS FOR PERCENTAGES OF MIXTURES AND PURE LIVE SEED. THE PRODUCER'S SEED LABEL SHALL INDICATE IT THE MINIMUM PERCENT OF PURE LIVE SEED WHICH SHALL BE 82.45 FOR BERMAUDA, 88 FOR RYE GRAIN, THE MINIMUM PERCENT OF GERMINATION IN HARD SEED AND MAXIMUM PERCENT OF WEED SEED (NO MORE THAN 1 PERCENT FOR BERMAUDA, 0.5 PERCENT FOR RYE GRAIN). SEED SHALL BE LABELED IN CONFORMANCE WITH U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND APPLICABLE STATE SEED LAWS. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED WILL NOT BE ACCEPTABLE.

THE FOLLOWING SEED MIXTURE SHALL BE USED:

| DATE              | TYPE          | PLANTING RATE |
|-------------------|---------------|---------------|
| APRIL 15 - SEPT 1 | GERMAN MILLET | 100 LBS/ACRE  |
| AUG 15 - NOV 1    | GRAIN RYE     | 120 LBS/ACRE  |
| NOV. 1 - APRIL 1  | GRAIN RYE     | 120 LBS/ACRE  |

| DATE              | TYPE   | PLANTING RATE                                      |
|-------------------|--|--|
| APRIL 15 - SEPT 1 | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 75 LBS/ACRE<br>50 (HULLED) LBS/ACRE<br>5 LBS/ACRE  |
| AUG 15 - NOV 15   | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 120 LBS/ACRE<br>25 (HULLED) LBS/ACRE<br>5 LBS/ACRE |
| NOV. 1 - APRIL 1  | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 120 LBS/ACRE<br>25 (HULLED) LBS/ACRE<br>5 LBS/ACRE |

**PERMANENT SEED MIXTURE:**

| DATE              | TYPE   | PLANTING RATE                                      |
|-------------------|--|--|
| APRIL 15 - SEPT 1 | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 75 LBS/ACRE<br>50 (HULLED) LBS/ACRE<br>5 LBS/ACRE  |
| AUG 15 - NOV 15   | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 120 LBS/ACRE<br>25 (HULLED) LBS/ACRE<br>5 LBS/ACRE |
| NOV. 1 - APRIL 1  | K-31 FESCUE<br>GRAIN CENTPEDE<br>COMMON BERMAUDA | 120 LBS/ACRE<br>25 (HULLED) LBS/ACRE<br>5 LBS/ACRE |

**WETLAND SEED MIXTURE (TEMPORARY AND PERMANENT)**

| DATE                                 | TYPE   | PLANTING RATE                            |
|--------------------------------------|--|--|
| WARM SEASON MIX<br>APRIL 1 - JULY 15 | SWITCHGRASS,<br>CAVE-IN-ROCK, ALAMO  | 8 PLS # / ACRE OR<br>4 OZ. / 1000 S.F.   |
|                                      | SMARTWEED  | 2 BULK # / ACRE OR<br>1 OZ. / 1000 S.F.  |
|                                      | JAPANESE MILLET OR<br>SUDAN GRASS HYBRIDS<br>(MOW PRIOR TO MATURITY)                                       | 20 - LB / ACRE OR<br>12 LBS / 1000 S.F.  |
| JULY 16 - SEPT. 1                    | TEMPORARY CROP OF<br>JAPANESE MILLET OR<br>SUDAN GRASS HYBRIDS<br>(TO BE FOLLOWED BY<br>PERMANENT MIXTURE) | 20 - LB / ACRE OR<br>12 LBS / 1000 S.F.  |
| COOL SEASON MIX<br>SEPT. 2 - NOV. 1  | REED CANARY GRASS  | 12 BULK # / ACRE OR<br>6 OZ. / 1000 S.F. |
|                                      | SMARTWEED  | 2 BULK # / ACRE OR<br>1 OZ. / 1000 S.F.  |
| NOV. 2 - MARCH 31                    | TEMPORARY CROP OF<br>WHEAT (TO BE FOLLOWED<br>BY PERMANENT MIXTURE)  | 40 LBS / ACRE                            |

**NOTES:**

- WHERE CONSTRUCTION CROSSES A PASTURE THAT HAS BEEN GRASSED, THE CONTRACTOR SHALL RE-SEED THE AREA WITH THE SAME TYPE OF GRASS AS FOUND ON THE SITE. ALL HIGHWAY RIGHTS-OF-WAY, AND PRIVATE YARDS DISTURBED SHALL ALSO BE RE-SEEDED OR WITH THE SAME TYPE OF GRASS PREVIOUSLY FOUND. THE SEED MIXTURE SPECIFICATION SHALL BE USED AS A GUIDE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING AREAS WITH THE PROPER TYPE OF GRASS THAT MATCHES THE EXISTING.
- CONSULT THE REGIONAL STATE EROSION CONTROL OFFICER FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENIED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

**SOIL AMENDMENTS**

LIME SHALL BE APPLIED AT THE RATE OF 12 TONS PER ACRE. 10-20-20 COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 1,000 POUNDS PER ACRE AND WELL WORKED IN TO THE TOP FOUR INCHES (4") OF TOP SOIL. IF HYDROSEEDING, USE 500 POUNDS OF 10-10-10 FERTILIZER ON SLOPES STEEPER THAN 1/2 HORIZONTAL TO 1 VERTICAL. UNLESS A SOIL TEST INDICATES OTHERWISE.

**MULCH**

ALL SEEDED AREAS WILL BE MULCHED WITH TWO (2) TONS PER ACRE OF SMALL GRAIN STRAW OR WOOD CELLULOSE FIBER SPREAD UNIFORMLY. APPROXIMATELY 1/4 OF GROUND SHOULD BE VISIBLE TO AVOID SMOTHERING SEEDLINGS. ASPHALT EMULSION (ASTM D-877 AND ASTM D-2028) SHALL BE USED TO ANCHOR THE STRAW APPLIED AT 150 GALLONS PER TON OF STRAW, OR CRIMPED TO STABILIZE. ASPHALT EMULSION SHALL BE REQUIRED FROM NOVEMBER 1ST TO MARCH 31ST. THE CONTRACTOR SHALL TAKE SUFFICIENT PRECAUTIONS TO PREVENT MULCH FROM ENTERING DRAINAGE STRUCTURES THROUGH DISPLACEMENT BY WIND, WATER OR OTHER CAUSES AND PROMPTLY REMOVE ANY BLOCKAGE WHICH MAY OCCUR.

**MAINTENANCE:**

THE CONTRACTOR SHALL PROTECT AND MAINTAIN GRASSED AREAS AS NECESSARY TO ESTABLISH A UNIFORM TURF COMPOSED OF THE GRASSES SPECIFIED. THE CONTRACTOR SHALL RE-SEED ANY BARE AREAS AND REPAIR ALL ERODED AREAS.

WATERING OF SEEDED AREAS WILL BE REQUIRED DURING PERIODS OF DRY WEATHER TO PROMOTE MAXIMUM GROWTH. THE CONTRACTOR SHALL SUPPLEMENT NATURAL RAINFALL TO INSURE A MINIMUM OF ONE (1) INCH OF RAINFALL WEEKLY.

MAINTENANCE OF LAWNS BEGINS IMMEDIATELY AFTER THE AREA IS PLANTED AND CONTINUES FOR THE PERIOD REQUIRING BUSH APPLICABLE LAWN, BUT NOT LESS THAN SIXTY (60) DAYS AFTER INITIAL SEEDING, OR UNLESS OTHERWISE ACCEPTED BY OWNER. MAINTAIN SEEDED AREAS BY WATERING, FERTILIZING, MOWING, WEEDING AND OTHER OPERATIONS SUCH AS ROLLING, RE-GRADING, RE-PLANTING, AERATING, AND MULCHING AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN FREE OF ERODED OR BARE AREAS.

**CHANNEL STABILIZATION AND OUTLET PROTECTION**

- UPON COMPLETION OF REACHING FINAL PREPARED SUB GRADE FOR AREAS (SLOPES, CHANNELS AND OUTLET PROTECTION) TO BE PROTECTED AS INDICATED ON DRAWINGS, INSTALL FILTER FABRIC, NCDOT NO. 67 STONE DRAINING LAYER, AND APPROPRIATE RIP-RAP. PREPARED SUB GRADE SHALL BE FREE OF DEBRIS, STICKS AND OTHER DELETERIOUS MATERIAL THAT MAY BE INJURIOUS TO THE FABRIC OR PERFORMANCE OF THE SLOPE PROTECTION.
- GEOTEXTILE FABRICS, COIR MATTING OR SPECIAL MULCH PROTECTION, SUCH AS FIBERGLASS ROVING OR STRAW AND NETTING, SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR STABILITY UNTIL THE VEGETATION IS FULLY ESTABLISHED. THESE REQUIREMENTS FOR SLOPE PROTECTION MAY INCLUDE AN ANCHOR TRENCH, SEAMING, STITCHING AND OVERLAPPING.
- RRIP-RAP FOR USE OF DESIGNATED ON THE DRAWINGS SHALL CONFORM TO NCDOT REQUIREMENTS FOR THE SPECIFIED CLASS (CLASS B, E, ETC) AS INDICATED ON THE DRAWINGS.

**SEEDBED PREPARATION**

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RRIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED TO 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RE-SEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAFF SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT STATE INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZER AFTER PERMANENT COVER IS ESTABLISHED.

\*APPLY AGRICULTURAL LIMESTONE-3,000 LBS/ACRE  
FERTILIZER: 500 LBS/ACRE 10-10-10  
SUPER PHOSPHATE: 500 LBS/ACRE 20% ANALYSIS  
MULCH: 2 TONS/ACRE SMALL GRAIN STRAW  
ANOTHER: ASPHALT EMULSION @ 300 GALS/ACRE

**MINIMUM REQUIREMENTS FOR SLOPE STABILIZATION**

**MINIMUM REQUIREMENTS**

STABILIZED WITH GRASS 3:1 AND FLATTER  
STABILIZED WITH SHRUBS OR VINES 3:1 TO 2:1  
STABILIZED WITH RIP-RAP 2:1 TO 1:1  
STABILIZED WITH RETAINING WALL STEEPER THAN 1.5:1

**SOD MATERIAL:**

- SOD SHALL CONTAIN 95 PERCENT PERMANENT GRASS, NOT MORE THAN 5 PERCENT WEEDS AND UNDESIRABLE GRASSES, GOOD TEXTURE AND FREE FROM GRIMOXUS GRASSES, ROOTS, STONES AND FOREIGN MATERIALS.
- SOD SHALL BE UNIFORMLY 1 1/2 TO 2 INCHES THICK WITH A WELL DEVELOPED FIBROUS ROOT MAT SYSTEM IN TOPSOIL WITH CLEAN CUT EDGES.
- THE SOD SHALL BE SUFFICIENTLY DENSE AND CUT TO THE MINIMUM REQUIRED THICKNESS SUCH THAT IF THE SOD IS SUSPENDED BY ONE CORNER, THE SOD WILL NOT TEAR APART.
- THE SOD SHALL BE RECENTLY MOWED TO A HEIGHT OF NOT MORE THAN THREE (3) INCHES PRIOR TO HARVEST.
- THE SOD SHALL BE SUPPLIED AND MAINTAINED IN A HEALTHY CONDITION AS EVIDENCE BY THE GRASS BEING A NORMAL GREEN COLOR IN APPEARANCE, DENSE, AND FREE FROM INSECTS, PESTS, DISEASE OR INJURY.
- SOD SHALL BE DELIVERED TO THE JOB SITE WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 24 HOURS AFTER DELIVERY.
- ANY SOD WHICH IS TORN, BROKEN OR TOO DRY WILL BE REJECTED.

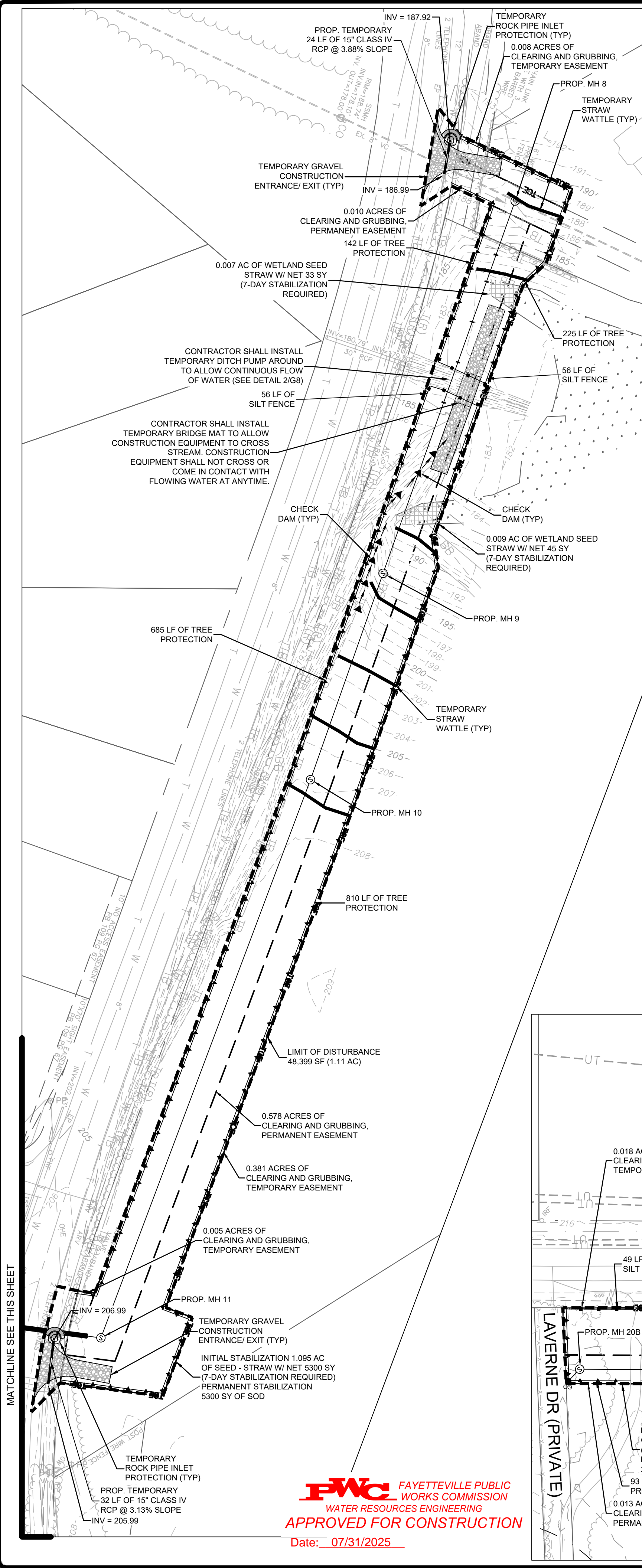
**SOIL BED PREPARATION:**

- THE AREA TO BE SODDED SHALL BE CLEANED AND DISPOSED OF BRUSH, RUBBISH, STONES, GRAVEL AND OTHER FOREIGN MATERIAL AND SHALL BE GRADED TO THE ORIGINAL CONTOURS (ALLOWING FOR THE THICKNESS OF THE SOD) OR AS IN THE CASE OF AN ALTERED CONTOUR SUCH AS A FILL SLOPE, GRADED AS DIRECTED TO FINISH GRADE, OR TYPICAL CROSS SECTION.
- THE SOD BED SHALL BE EXCAVATED TO SUCH A DEPTH THAT AFTER SOD PLACEMENT THE TOP OF THE SOD SHALL BE FLUSH WITH SURROUNDING GRADE OR CONTOURS.
- RAKE AREAS TO BE SODDED SMOOTH, FREE FROM UNSIGHTLY VARIATIONS, BUMPS, RIDGES OR DEPRESSIONS.
- DO NOT START WORK UNTIL CONDITIONS ARE SATISFACTORY AND DO NOT WORK DURING INCLEMENT OR IMPROVING INCLEMENT WEATHER.
- THE SURFACE AREA TO RECEIVE SOD SHALL CONTAIN A MINIMUM OF FOUR (4) INCHES OF GOOD, FERTILE, FRABLE, ORGANIC NATURAL TOPSOIL LOAM AS A BASE FOR LAYING THE SOD. TOPSOIL SHALL BE FREE OF CLUMPS, BRUSH, STICKS, WEEDS, STONES, ROOTS, TRASH OR OTHER UNDESIRABLE MATERIAL. SOIL PREPARATION SHALL NOT BE PERFORMED IN FROZEN OR EXTREMELY WET CONDITIONS. THE FINISHED TOPSOIL BED SHALL BE UNIFORM IN GRADE, WITH A YARD LIKE APPEARANCE. ALL CHANGES IN GRADE SHALL HAVE A SMOOTH, ROUNDED PEAKS AND VALLES.
- THE SOIL SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF NOT LESS THAN FIVE (5) INCHES. THE TOP FOUR (4) INCHES OF THE SOIL SHALL BE BROKEN UP AND MIXED WITH AN ACCEPTABLE SMOOTH, FRABLE AND UNIFORMLY FINE TEXTURE SOD BED BY USE OF SOIL PULVERIZERS, DRAGS, HARROWS OR BY OTHER APPROVED METHODS.
- COMMERCIAL GRADE FERTILIZER (8% NITROGEN, 8% PHOSPHATE, 8% POTASH) SHALL BE APPLIED AT A RATE OF 20 POUNDS PER 1,000 SQUARE FEET. SUPER-PHOSPHATE AT 12 POUNDS PER 1,000 SQUARE FEET AND LIME (DOLOMITE LIMESTONE CONTAINING NOT LESS THAN 85% TOTAL CARBAMATES) SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000 SQUARE FEET OR AT A RATE RECOMMENDED FOR THE TYPE OF SOIL BEING PLACED.
- APPLY SOIL AMENDMENTS WITHIN 24 HOURS AFTER RAKING TOPSOIL. BASE SURFACE AND NOT MORE THAN 48 HOURS PRIOR TO LAYING SOD. MIX THOROUGHLY A MINIMUM DEPTH INTO THE UPPER FOUR (4) INCHES OF TOPSOIL AND LIGHTLY WATER TO AID IN DISSIPATION.
- SOD PLACEMENT SHALL NOT BEGIN UNTIL THE SOIL PREPARATION IS INSPECTED AND APPROVED BY THE PUBLIC WORKS COMMISSION.

**SOD INSTALLATION:**

- SOD SHALL BE BROUGHT TO THE SITE AS NEAR TO THE TIME OF PLACING AS POSSIBLE BUT NO EARLIER THAN 24 HOURS FROM TOPSOIL BASE PREPARATION AND ACCEPTANCE BY PUBLIC WORKS COMMISSION.
- STORE SOD IN THE SHADE, AND KEEP WATERED PARTICULARLY IN EXTREME HOT AND DRY CONDITION TO INSURE VITALITY AND TO PREVENT THE DROPPING OFF OF SOIL DURING HANDLING.
- DURING WET WEATHER, THE SOD SHALL BE ALLOWED TO DRY SUFFICIENTLY TO PREVENT TEARING.
- CAREFULLY PLACE SOD IN ROWS WITH THE LONGER SIDE PERPENDICULAR TO SLOPES AND THE ENDS STAGGERED IN EACH ROW. STAPLES SHOULD BE USED TO HOLD THE SOD TOGETHER AND SIDES TOGETHER TIGHTLY AND DO NOT OVERLAP OR STRETCH THE SOD. DO NOT LEAVE ANY VOIDS OR GAPS. UNAVOIDABLE GAPS SHALL BE CLOSED WITH SMALL PIECES OF TORN OR BROKEN SOD IF KEPT MOIST AND APPROVED BY THE PUBLIC WORKS COMMISSION.
- AFTER THE SOD IS LAID, IRRIGATE THOROUGHLY TO ALLOW WATER TO PENETRATE A MINIMUM SIX (6) INCHES INTO THE SOIL BELOW THE SOD. SOD SHALL NOT BE PLACED WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 32°F.
- TAMP AND ROLL COMPLETED SOD INSTALLATION WITH A MANUAL ROLLER OR APPROVED EQUIPMENT TO ELIMINATE MINOR IRREGULARITIES AND TO FORM CLOSE CONTACT WITH THE SOIL BED IMMEDIATELY AFTER PLACING AND WATERING. THE TYPE OF ROLLING AND TAMPING EQUIPMENT TO BE USED SHALL BE SUBMITTED TO THE PUBLIC WORKS COMMISSION FOR APPROVAL PRIOR TO CONSTRUCTION.
- ON STEEP SLOPES 3:1 (HORIZONTAL AND VERTICAL) OR GREATER, IN DRAINAGE DITCHES OR ANY AREAS WHERE SOD SLIPPING MAY OCCUR, ANCHOR SOD WITH APPROVED WOODEN STAKES (2" X 12") OR STAPLES SPACED NOT OVER TWO (2) FEET APART IN ANY DIRECTION AND/OR IN SUFFICIENT NUMBER TO PREVENT SLIPPAGE OR DISPLACEMENT. THE ANCHORS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SOD. THE WIDE FLAT SIDE OF THE STAKE SHALL BE DRIVEN PARALLEL TO THE SLOPE. STAKING SHALL BE DONE CONCURRENTLY WITH SOD PLACEMENT AND PRIOR TO TAMPING.
- SOD SHALL BE LAID WITH THE LONG HORIZONTAL EDGE OF THE STRIPS PARALLEL TO THE CONTOUR STARTING AT THE BOTTOM OF THE SLOPE. THE EDGE OF THE SOD SHALL BE TURNED SLIGHTLY IN THE GROUND AT THE TOP OF A SLOPE AND A LAYER OF EARTH PLACED OVER IT AND COMPACTED SO AS TO CONDUCT THE SURFACE WATER OVER AND ONTO THE TOP OF THE SOD.
- UPON COMPLETION OF THE ABOVE DESCRIBED WORK, THE SURFACE OF THE SODDED AREAS SHALL COINCIDE WITH THE FINISHED GRADE AND NOT EXCEED 1/4" PLUS OR MINUS VARIATION TO ADJOINING GRADE OR PROPOSED CONTOUR.

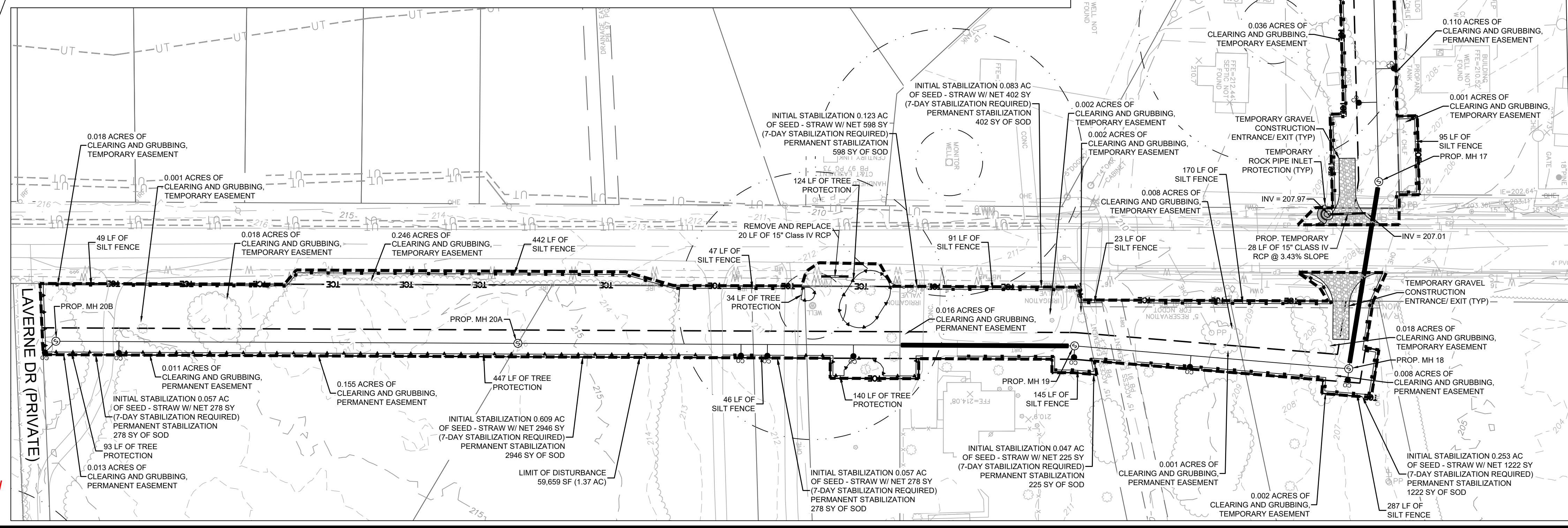
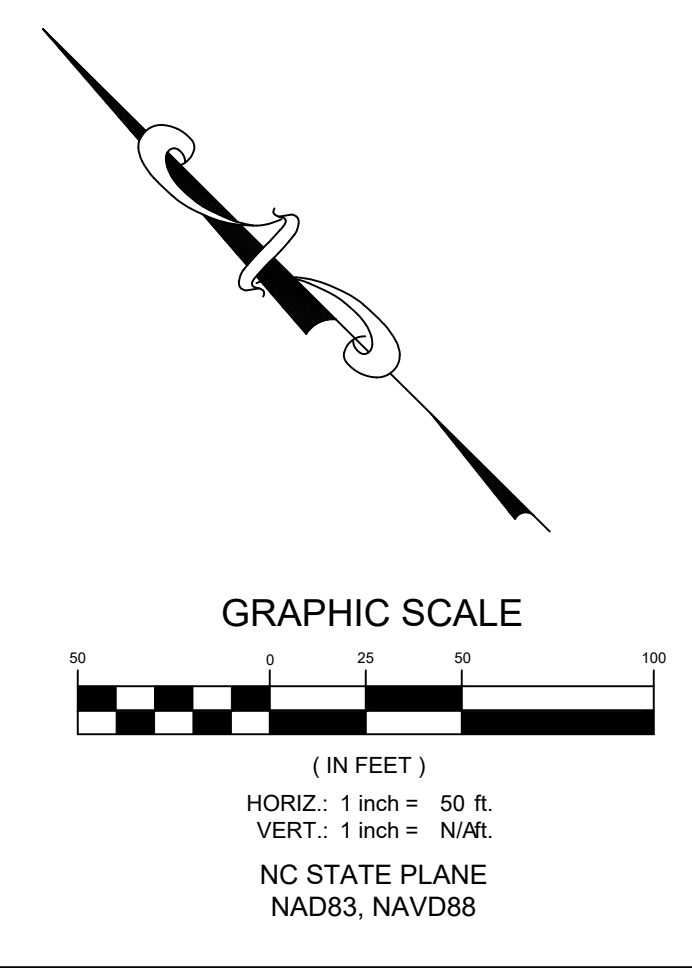
**MAINTENANCE:**



### EROSION CONTROL LEGEND

- TEMPORARY CURB INLET PROTECTION
  - TEMPORARY CHECK DAM
  - TEMPORARY ROCK PIPE INLET PROTECTION
  - TEMPORARY SILT FENCE
  - TEMPORARY TREE PROTECTION
  - LIMIT OF DISTURBANCE
  - TEMPORARY STORM DRAINAGE
  - TEMPORARY STRAW WATTLE
  - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
  - WETLAND SEED
  - STREAM BANK STABILIZATION CLASS II RIP RAP
  - TEMPORARY DITCH CROSSING (BRIDGE MAT)
- SEE SHEETS G7 TO G9 FOR EROSION CONTROL DETAILS.

| DISTURBED AREA |                    |              |
|----------------|--------------------|--------------|
| SHEET NUMBER   | AREA (SQUARE FEET) | AREA (ACRES) |
| C6             | 147,760            | 3.39         |
| C7             | 153,811            | 3.53         |
| C8             | 127,345            | 2.92         |
| TOTAL          | 428,916            | 9.85         |



**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
APPROVED FOR CONSTRUCTION  
Date: 07/31/2025

REGIONS

DATE: 07/28/2025

SURVEY/GPS BY: MBO/GPI

DRAWN BY: VAR

CHECKED BY: AMH

SCALE: HOR. 1"=50'

VERT. 1"=5'

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**STATE OF NORTH CAROLINA**  
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MICHAEL E. YOUNGBLOOD  
07/28/2025

**EROSION CONTROL PLAN - OUTFALL 2**  
PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
FAYETTEVILLE, NORTH CAROLINA

**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FWC** WATER RESOURCES ENGINEERING  
P.O. Box 1085, Fayetteville, NC 28302  
855 5th Wilmington Road, Fayetteville, NC 28301

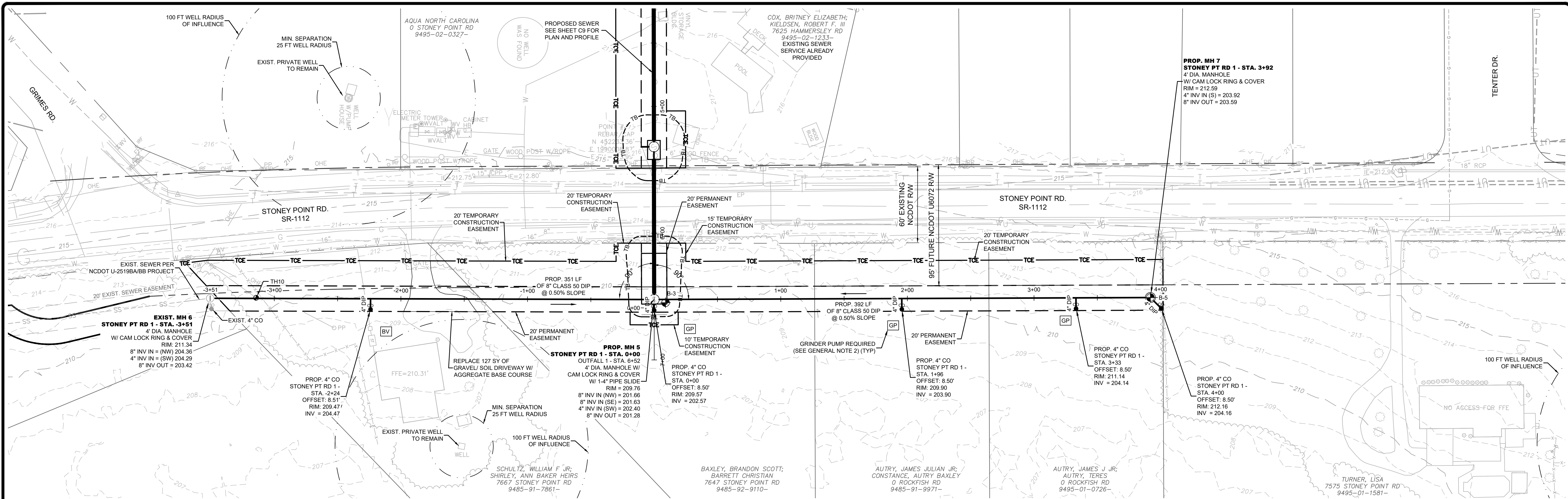
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SHEET # C6





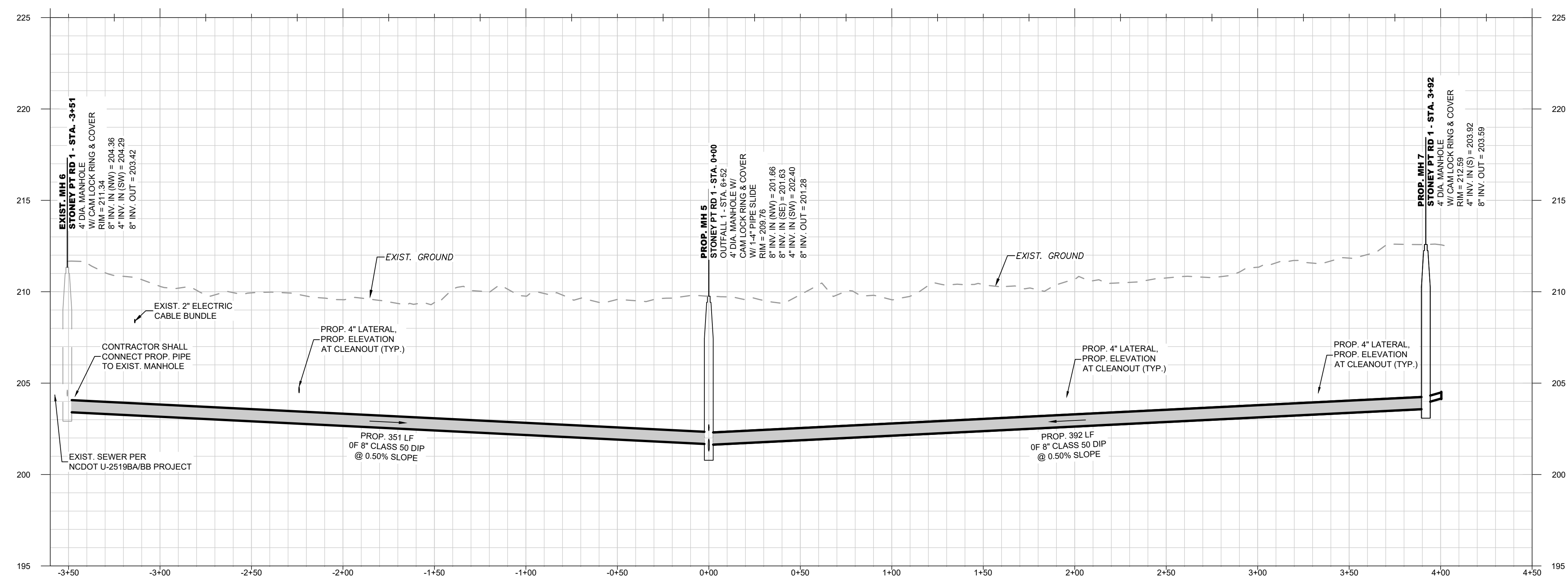
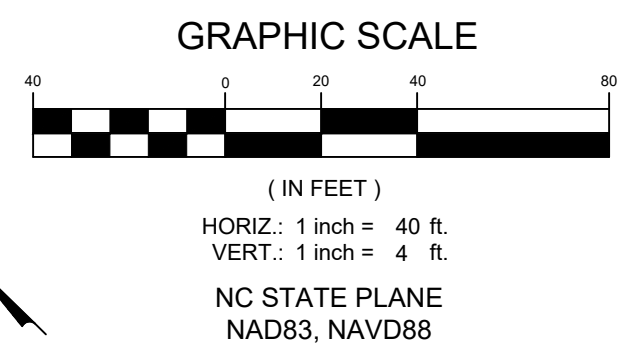




| LEGEND |                                   |
|--------|-----------------------------------|
|        | PROP. UTILITY EASEMENT            |
|        | PROP. SAN SEWER, CLEANOUT & MH    |
|        | PROP. WATER LINE                  |
|        | PROP. BORE & JACK W/ ENCASUREMENT |
|        | PROP. BORE PIT TOP OF BANK        |
|        | PROP. TEMP CONSTRUCTION ESMT.     |
|        | PROP. RIGHT OF ENTRY              |
|        | PROP. LIMIT OF DISTURBANCE        |
|        | PROP. LIMIT OF WORK               |
|        | PROP. SILT / SAFETY FENCE         |
|        | EX. TOP OF BANK / TOP OF SLOPE    |
|        | EX. BOTTOM OF BANK / SLOPE        |
|        | EX. WETLANDS / WETL BOUNDARY      |
|        | EX. RIGHT-OF-WAY                  |
|        | EX. SANITARY SEWER & MANHOLE      |
|        | EX. WATER LINE & WATER VALVE      |
|        | EX. WATER LINE (RECORD DRAWING)   |
|        | EX. GAS LINE / UNDERGROUND GAS    |
|        | EX. ELECTRIC / UNDERGROUND ELEC.  |
|        | EX. OVERHEAD ELECTRIC LINE        |
|        | EX. TELEPHONE / UNDERGROUND TEL.  |
|        | EX. TELEPHONE LINE (RECORD DWG)   |
|        | EX. CABLE TV / FIBER OPTIC LINE   |
|        | EX. TRAFFIC SIGNAL LINE           |
|        | EX. UNKNOWN UTILITY               |
|        | EX. FENCE LINE                    |
|        | EX. FENCE LINE                    |
|        | EX. TREE LINE                     |
|        | PROP. REVERSE PLUMBING            |
|        | PROP. BACKWATER VALVE             |
|        | PROP. GRINDER PUMP                |
|        | PROP. / EX. HYDRANT               |
|        | EX. WATER METER                   |
|        | EX. WELL HEAD                     |
|        | EX. SEPTIC TANK                   |
|        | EX. POWER POLE                    |
|        | EX. GUY WIRE                      |
|        | EX. ELECTRIC BOX / METER          |
|        | EX. ELECTRIC TRANSFORMER          |
|        | EX. CATV PEDESTAL                 |
|        | EX. DRAIN MH / CATCH BASIN        |
|        | EX. TREE / BUSH                   |
|        | MAILBOX                           |
|        | LAMP / LIGHT POLE                 |
|        | SUE/SOIL BORING LOCATION          |
|        | SIGN                              |
|        | IRON ROD FOUND                    |
|        | IRON PIPE FOUND                   |
|        | PK NAIL FOUND                     |
|        | CONCRETE MONUMENT                 |
|        | CONTROL POINT                     |
|        | EX. UTILITY POLE                  |
|        | EX. TELE. PEDESTAL / MH           |
|        | EX. HV PEDESTAL                   |

- GENERAL NOTE:**
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
  - PARCEL REQUIRES A GRINDER PUMP. GRINDER PUMP SHALL BE INSTALLED BY OTHERS.

- SEPTIC TANK NOTE:**
- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION AND IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS, CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



**STONEY PT RD 1**  
SCALE: HOR 1"=40'; VERT 1"=4'

**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
APPROVED FOR CONSTRUCTION  
Date: 07/31/2025

|  |                  |
|--|------------------|
| DATE: 07/28/2025                           | BY: _____        |
| SURVEY/GPS BY: M8C/GPI                     | REVISIONS: _____ |
| DRAWN BY: VAR                              | DATE: _____      |
| CHECKED BY: AMH                            | DATE: _____      |
| SCALE: HORIZ: 1"=40'                       | DATE: _____      |
| VERT: 1"=4'                                | DATE: _____      |
| SHEET SERIES-FINAL DESIGN - ISSUED FOR BID | DATE: _____      |

**WICKSON**  
Professional Engineer  
720 Corporate Center Drive  
Fayetteville, NC 28302  
www.wickson.com

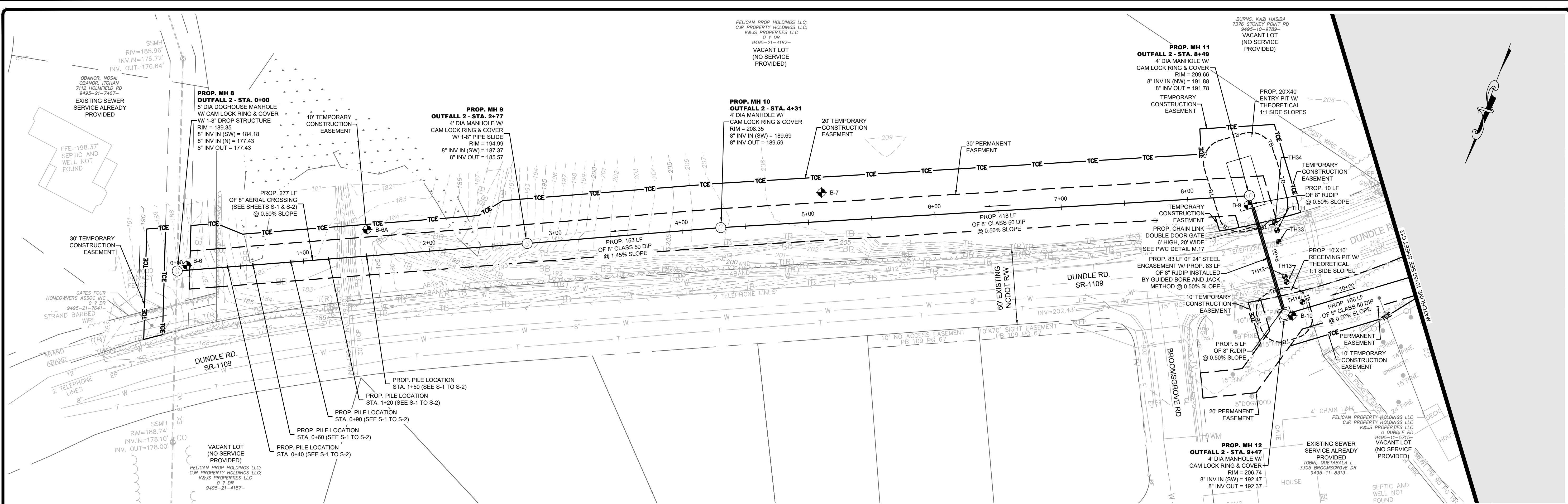
**SEAL**  
049209  
MICHAEL E. YOUNGBLOOD  
07/28/2025

SHEET # C10

**SEWER MAIN - STONEY PT RD 1**  
PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
FAYETTEVILLE, NORTH CAROLINA

**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FWC** WATER RESOURCES ENGINEERING  
P.O. Box 1088, Fayetteville, NC 28302  
855 Old Wilmington Road, Fayetteville, NC 28301

**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
APPROVED FOR CONSTRUCTION  
Date: 07/31/2025



**LEGEND**

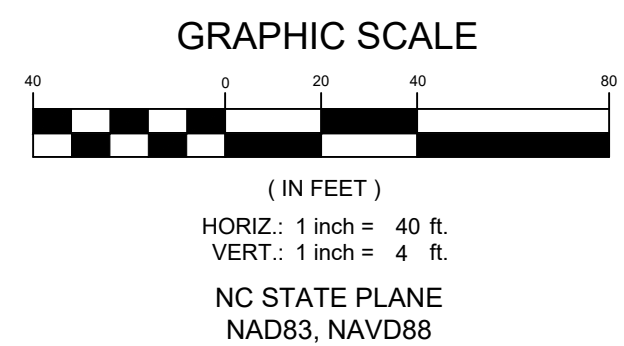
|  |  |  |   |
|--|--|--|---|
| <ul style="list-style-type: none"> <li>PROP. UTILITY EASEMENT</li> <li>PROP. SAN SEWER, CLEANOUT &amp; MH</li> <li>PROP. WATER LINE</li> <li>PROP. BORE &amp; JACK W/ ENCASEMENT</li> <li>PROP. BORE PIT TOP OF BANK</li> <li>PROP. TEMP CONSTRUCTION ESMT.</li> <li>PROP. RIGHT OF ENTRY</li> <li>PROP. LIMIT OF DISTURBANCE</li> <li>PROP. LIMIT OF WORK</li> <li>PROP. SILT / SAFETY FENCE</li> <li>EX. TOP OF BANK / TOP OF SLOPE</li> <li>EX. BOTTOM OF BANK / SLOPE</li> <li>EX. WETLANDS / WETL BOUNDARY</li> </ul> | <ul style="list-style-type: none"> <li>EX. RIGHT-OF-WAY</li> <li>EX. SANITARY SEWER &amp; MANHOLE</li> <li>EX. WATER LINE &amp; WATER VALVE</li> <li>EX. WATER LINE (RECORD DRAWING)</li> <li>EX. GAS LINE / UNDERGROUND GAS</li> <li>EX. ELECTRIC / UNDERGROUND ELEC.</li> <li>EX. OVERHEAD ELECTRIC LINE</li> <li>EX. TELEPHONE / UNDERGROUND TEL.</li> <li>EX. TELEPHONE LINE (RECORD DWG)</li> <li>EX. CABLE TV / FIBER OPTIC LINE</li> <li>EX. TRAFFIC SIGNAL LINE</li> <li>EX. UNKNOWN UTILITY</li> <li>EX. FENCE LINE</li> <li>EX. FENCE LINE</li> <li>EX. TREE LINE</li> </ul> | <ul style="list-style-type: none"> <li>PROP. REVERSE PLUMBING</li> <li>PROP. BACKWATER VALVE</li> <li>PROP. GRINDER PUMP</li> <li>PROP. / EX. HYDRANT</li> <li>EX. WATER METER</li> <li>EX. WELL HEAD</li> <li>EX. SEPTIC TANK</li> <li>EX. POWER POLE</li> <li>EX. GUY WIRE</li> <li>EX. ELECTRIC BOX / METER</li> <li>EX. ELECTRIC TRANSFORMER</li> <li>EX. CATV PEDESTAL</li> <li>EX. DRAIN MH / CATCH BASIN</li> </ul> | <ul style="list-style-type: none"> <li>EX. TREE / BUSH</li> <li>MAILBOX</li> <li>LAMP / LIGHT POLE</li> <li>SUE/SOIL BORING LOCATION</li> <li>SIGN</li> <li>IRON ROD FOUND</li> <li>IRON PIPE FOUND</li> <li>PK NAIL FOUND</li> <li>CONCRETE MONUMENT</li> <li>CONTROL POINT</li> <li>EX. UTILITY POLE</li> <li>EX. TELE. PEDESTAL / MH</li> <li>EX. HVAC PEDESTAL</li> </ul> |
|--|--|--|---|

**GENERAL NOTE:**

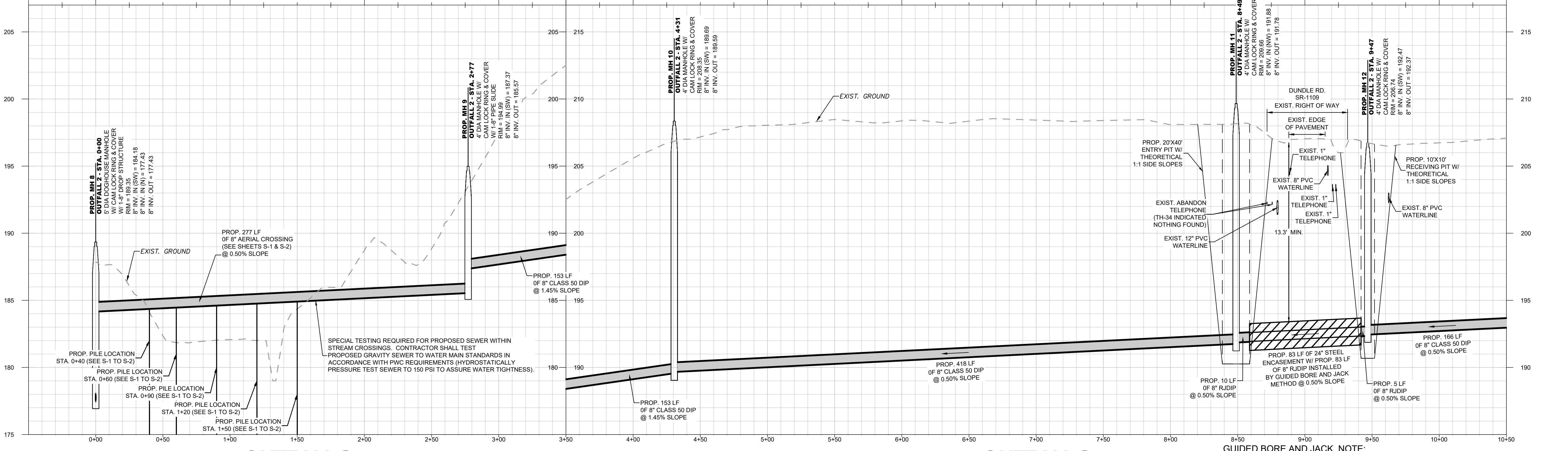
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S 12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL NOT ACCESS THE EXISTING SEWER EASEMENT FROM HOLMFIELD ROAD VIA THE GATES FOUR COMMUNITY. ALL ACCESS MUST BE FROM DUNDLE ROAD THROUGH THE PERMANENT SEWER EASEMENT.

**SEPTIC TANK NOTE:**

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION AND IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



**PWC FAYETTEVILLE PUBLIC WORKS COMMISSION**  
 WATER RESOURCES ENGINEERING  
 APPROVED FOR CONSTRUCTION  
 Date: 07/31/2025



**OUTFALL 2**  
 SCALE: HOR 1"=40'; VERT 1"=4'

**OUTFALL 2**  
 SCALE: HOR 1"=40'; VERT 1"=4'

**GUIDED BORE AND JACK NOTE:**

- CONTRACTOR SHALL CONFIRM DEPTH OF ALL EXISTING UTILITY CROSSINGS BY METHOD OF NON-DESTRUCTIVE EXCAVATION PRIOR TO BORE AND JACK.

REGIONS

DATE: 07/28/2025

SURVEY/GPS BY: MBO/GPI

DRAWN BY: VAR

CHECKED BY: AMH

SCALE: 1/8" = 1'-0"

SHEET # CIL

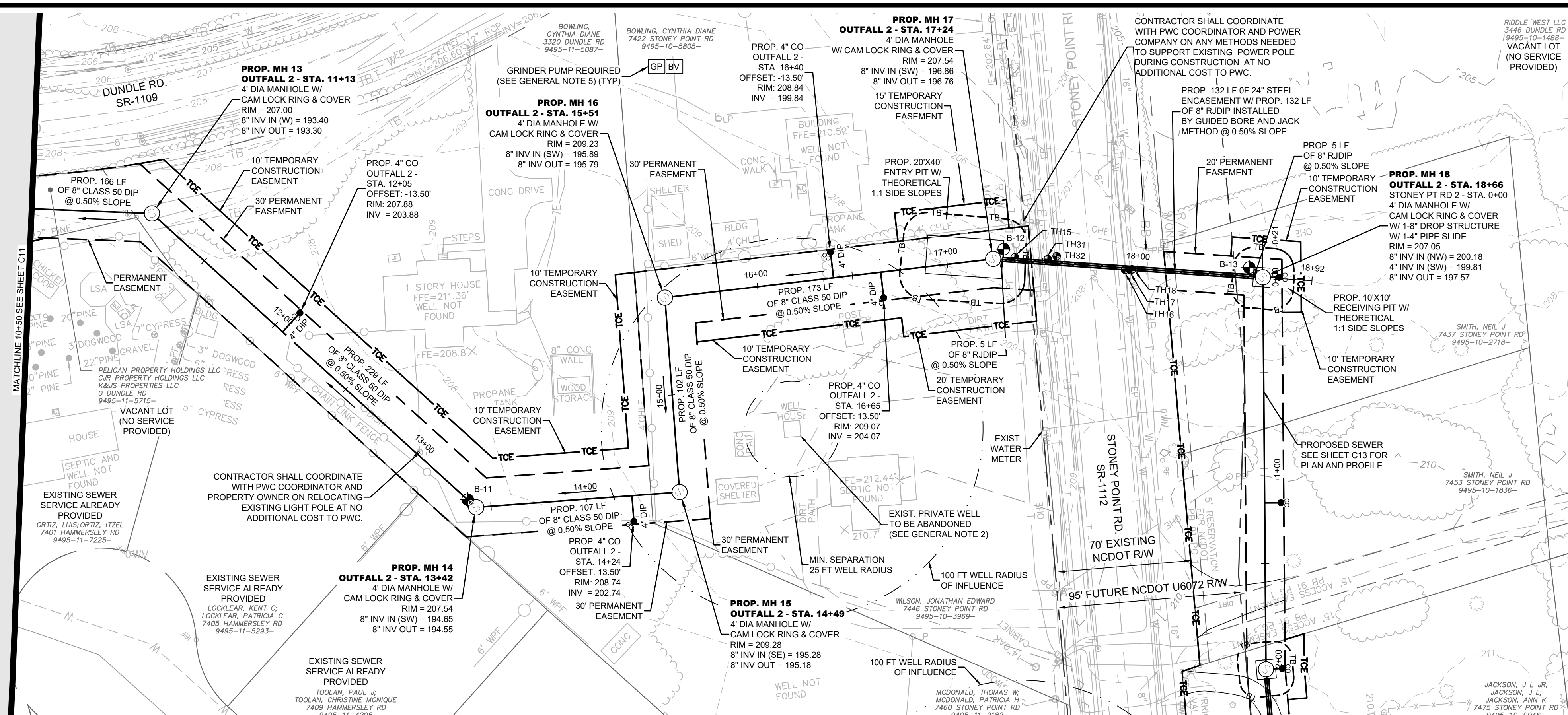
**DICKSON**  
 PROFESSIONAL ENGINEERS  
 720 Corporate Center Drive  
 Raleigh, NC 27603  
 (919) 792-0485  
 www.dickson.com

**STATE OF NORTH CAROLINA**  
 PROFESSIONAL ENGINEER  
 049209  
 CHAEL E. YOUNGBLOOD  
 07/28/2025

**SEWER MAIN - OUTFALL 2 - 0+00 TO 10+50**  
 PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
 FAYETTEVILLE, NORTH CAROLINA

**PWC FAYETTEVILLE PUBLIC WORKS COMMISSION**  
 WATER RESOURCES ENGINEERING  
 P.O. Box 1081, Fayetteville, NC 28302  
 855 6th Wilmington Road, Fayetteville, NC 28301

DWS-15366

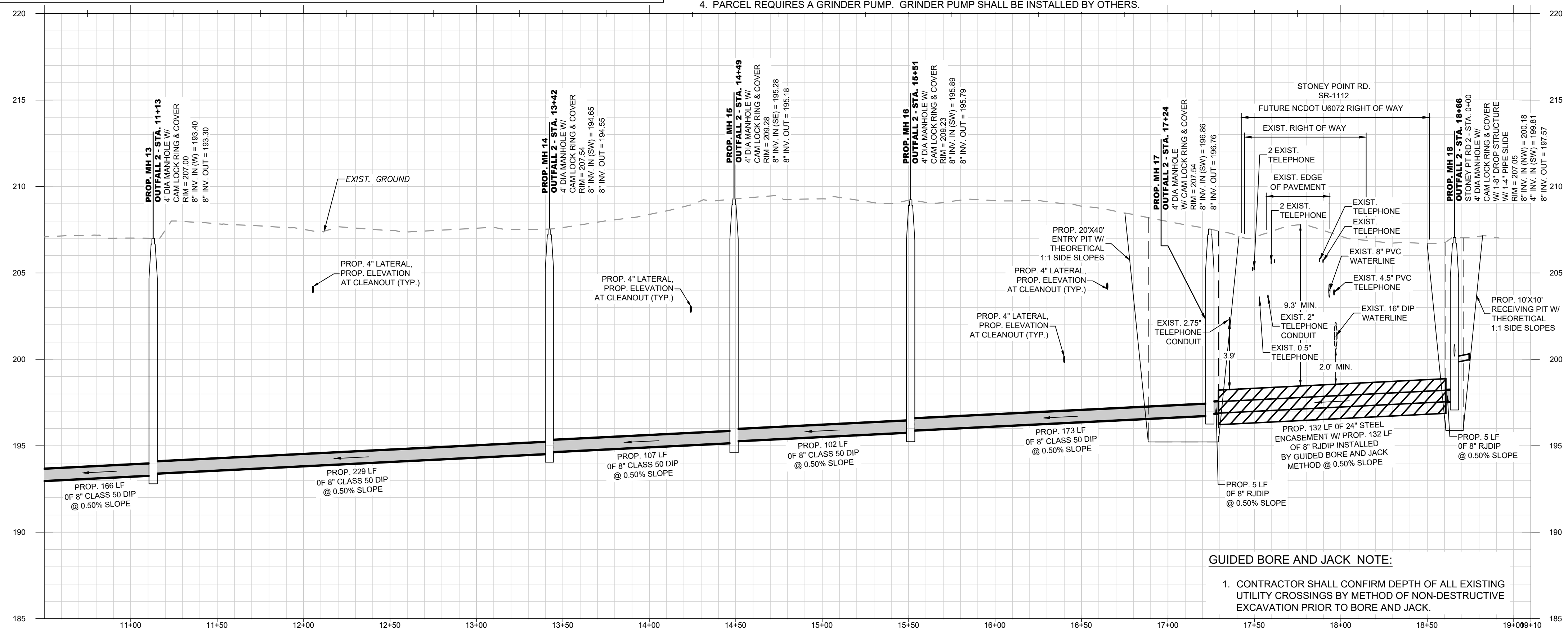
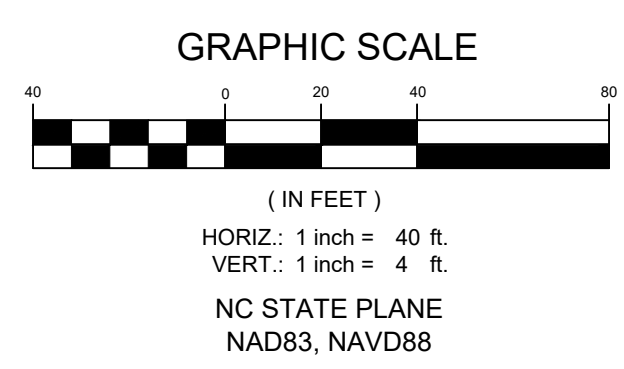


**LEGEND**

|                                   |                                  |                            |                          |
|-----------------------------------|----------------------------------|----------------------------|--------------------------|
| PROP. UTILITY EASEMENT            | EX. RIGHT-OF-WAY                 | PROP. REVERSE PLUMBING     | EX. TREE / BUSH          |
| PROP. SAN SEWER, CLEANOUT & MH    | EX. SANITARY SEWER & MANHOLE     | PROP. BACKWATER VALVE      | MAILBOX                  |
| PROP. WATER LINE                  | EX. WATER LINE & WATER VALVE     | PROP. GRINDER PUMP         | LAMP / LIGHT POLE        |
| PROP. BORE & JACK W/ ENCASUREMENT | EX. GAS LINE / UNDERGROUND GAS   | PROP. / EX. HYDRANT        | SUE/SOIL BORING LOCATION |
| PROP. BORE PIT TOP OF BANK        | EX. ELECTRIC / UNDERGROUND ELEC. | EX. WATER METER            | SIGN                     |
| PROP. TEMP CONSTRUCTION ESMT.     | EX. OVERHEAD ELECTRIC LINE       | EX. WELL HEAD              | IRON ROD FOUND           |
| PROP. RIGHT OF ENTRY              | EX. TELEPHONE / UNDERGROUND TEL. | EX. SEPTIC TANK            | IRON PIPE FOUND          |
| PROP. LIMIT OF DISTURBANCE        | EX. TELEPHONE LINE (RECORD DWG)  | EX. POWER POLE             | PK NAIL FOUND            |
| PROP. LIMIT OF WORK               | EX. CABLE TV / FIBER OPTIC LINE  | EX. GUY WIRE               | CONCRETE MONUMENT        |
| PROP. SILT / SAFETY FENCE         | EX. TRAFFIC SIGNAL LINE          | EX. ELECTRIC BOX / METER   | CONTROL POINT            |
| EX. TOP OF BANK / TOP OF SLOPE    | EX. FENCE LINE                   | EX. ELECTRIC TRANSFORMER   | EX. UTILITY POLE         |
| EX. BOTTOM OF BANK / SLOPE        | EX. FENCE LINE                   | EX. CATV PEDESTAL          | EX. TELE. PEDESTAL / MH  |
|                                   | EX. FENCE LINE                   | EX. DRAIN MH / CATCH BASIN | EX. HVAC PEDESTAL        |
|                                   | EX. TREE LINE                    |                            |                          |

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  - CONTRACTOR SHALL CONFIRM THAT EXISTING WELL HAS BEEN ABANDONED IN ACCORDANCE WITH ALL LOCAL AND NC STATE REGULATIONS. IF EXISTING WELL HAS NOT BEEN ABANDONED PROPERLY THEN CONTRACTOR SHALL COORDINATE ABANDONMENT WITH PWC PROJECT COORDINATOR IN ACCORDANCE WITH ALL LOCAL AND NC STATE REGULATIONS.
  - INTENTIONALLY LEFT BLANK.
  - PARCEL REQUIRES A GRINDER PUMP. GRINDER PUMP SHALL BE INSTALLED BY OTHERS.

- SEPTIC TANK NOTE:**
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- GUIDED BORE AND JACK NOTE:**
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**OUTFALL 2**  
 SCALE: HOR 1"=40'; VERT 1"=4'

**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
 WATER RESOURCES ENGINEERING  
 APPROVED FOR CONSTRUCTION  
 Date: 07/31/2025

DATE: 07/28/2025  
 SURVEY/GPS BY: MBO/GPI  
 DRAWN BY: VR / DK  
 CHECKED BY: AMH  
 SCALE: HOR: 1"=40' VERT: 1"=4'  
 SHEET # C12

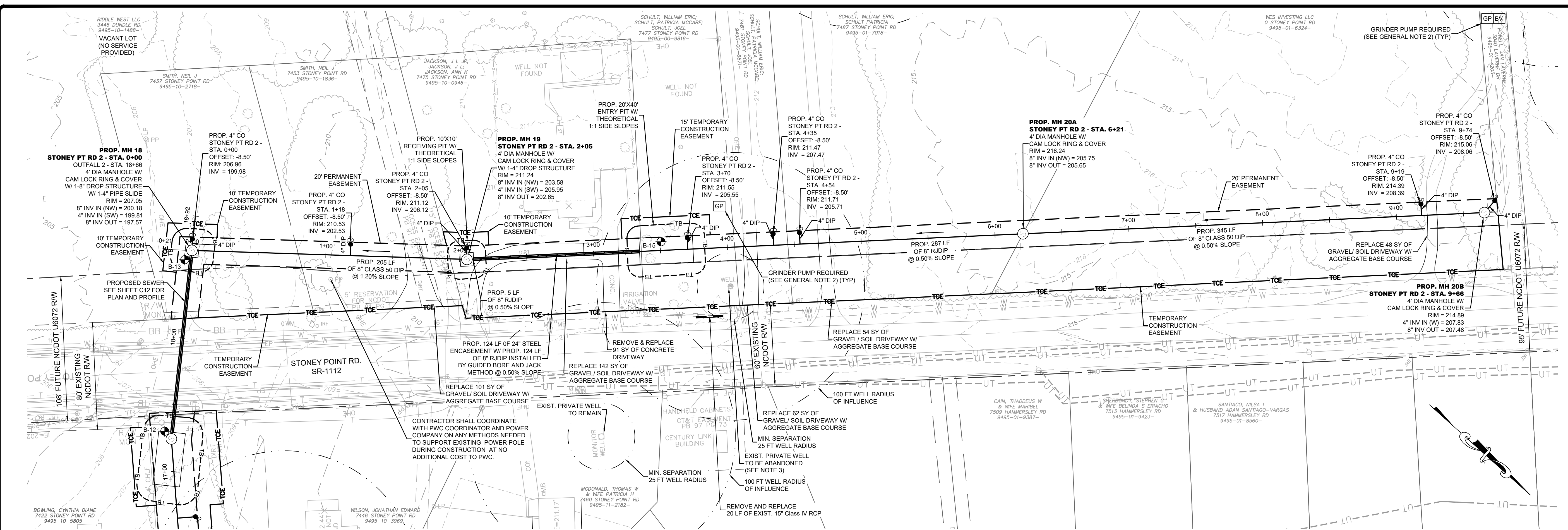
**WICKSON**  
 PROFESSIONAL ENGINEERING  
 770 Corporate Center Drive  
 Raleigh, NC 27603  
 (919) 782-0485  
 www.wickson.com

**NORTH CAROLINA**  
 ENGINEER  
 049209  
 07/28/2025

**SEWER MAIN - OUTFALL 2 - 10+50 TO END**  
 PHASE V, ANNEXATION AREA 32 EAST SECTION 2  
 FAYETTEVILLE, NORTH CAROLINA

**PWC** PUBLIC WORKS COMMISSION  
 OF THE CITY OF FAYETTEVILLE  
 WATER RESOURCES ENGINEERING  
 P.O. Box 1081, Fayetteville, NC 28302  
 855 5th Wilmington Road, Fayetteville, NC 28301

DWS-15366

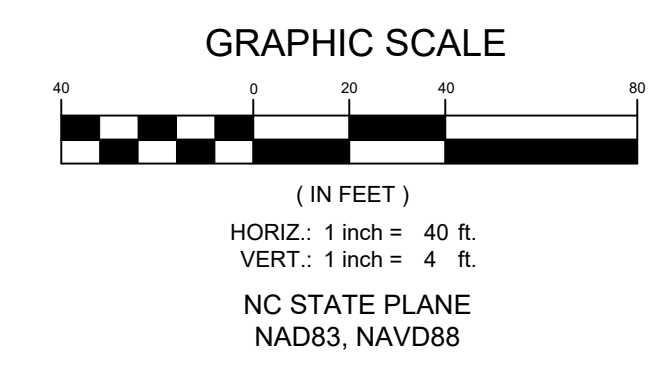


| LEGEND                             |                                  |
|------------------------------------|----------------------------------|
| --- PROP. UTILITY EASEMENT         | EX. RIGHT-OF-WAY                 |
| --- PROP. SAN SEWER, CLEANOUT & MH | EX. SANITARY SEWER & MANHOLE     |
| --- PROP. WATER LINE               | EX. WATER LINE & WATER VALVE     |
| --- PROP. BORE & JACK W/ ENCASMENT | EX. WATER LINE (RECORD DRAWING)  |
| --- PROP. BORE PIT TOP OF BANK     | EX. GAS LINE / UNDERGROUND GAS   |
| --- PROP. TEMP. CONSTRUCTION ESMT. | EX. ELECTRIC / UNDERGROUND ELEC. |
| --- PROP. RIGHT OF ENTRY           | EX. OVERHEAD ELECTRIC LINE       |
| --- PROP. LIMIT OF DISTURBANCE     | EX. TELEPHONE / UNDERGROUND TEL. |
| --- PROP. LIMIT OF WORK            | EX. TELEPHONE LINE (RECORD DWG)  |
| --- PROP. SILT / SAFETY FENCE      | EX. CABLE TV / FIBER OPTIC LINE  |
| --- EX. TOP OF BANK / TOP OF SLOPE | EX. TRAFFIC SIGNAL LINE          |
| --- EX. BOTTOM OF BANK / SLOPE     | EX. UNKNOWN UTILITY              |
| --- EX. WETLANDS / WETL. BOUNDARY  | EX. FENCE LINE                   |
|                                    | EX. FENCE LINE                   |
|                                    | EX. TREE LINE                    |
| RP                                 | PROP. REVERSE PLUMBING           |
| GP                                 | PROP. BACKWATER VALVE            |
| BP                                 | PROP. GRINDER PUMP               |
| W                                  | PROP. / EX. HYDRANT              |
| WM                                 | EX. WATER METER                  |
| WH                                 | EX. WELL HEAD                    |
| ST                                 | EX. SEPTIC TANK                  |
| PP                                 | EX. POWER POLE                   |
| GW                                 | EX. GUY WIRE                     |
| EB                                 | EX. ELECTRIC BOX / METER         |
| ET                                 | EX. ELECTRIC TRANSFORMER         |
| CP                                 | EX. CATV PEDESTAL                |
| DB                                 | EX. DRAIN MH / CATCH BASIN       |
| EX                                 | EX. TREE / BUSH                  |
| MB                                 | MAIL BOX                         |
| LP                                 | LAMP / LIGHT POLE                |
| SB                                 | SUE/SOIL BORING LOCATION         |
| IR                                 | IRON ROD FOUND                   |
| IP                                 | IRON PIPE FOUND                  |
| PK                                 | PK NAIL FOUND                    |
| CM                                 | CONCRETE MONUMENT                |
| CP                                 | CONTROL POINT                    |
| UP                                 | EX. UTILITY POLE                 |
| TP                                 | EX. TELE. PEDESTAL / MH          |
| HP                                 | EX. HVAC PEDESTAL                |

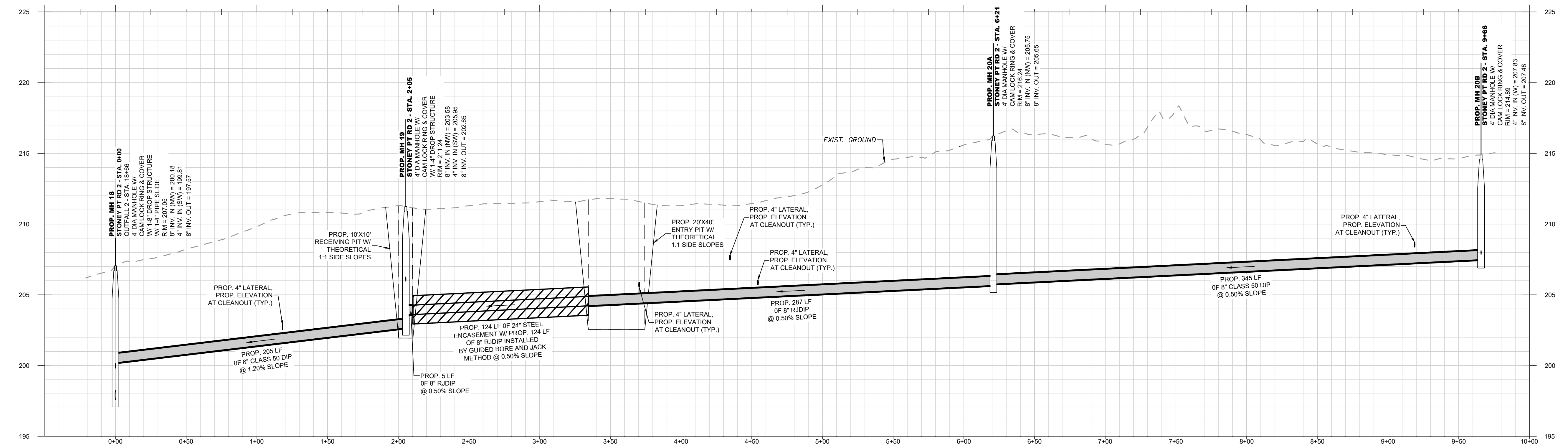
- GENERAL NOTE:**
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 WHEN SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
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- DRIVEWAY NOTE:**
- CONTRACTOR SHALL REPLACE CONCRETE DRIVEWAY FROM EXISTING EXPANSION/CONSTRUCTION TO EXPANSION/CONSTRUCTION JOINT FOR ALL REMOVAL AND REPLACEMENT OF CONCRETE SIDEWALKS AND OR DRIVEWAYS. QUANTITIES HAVE BEEN ESTIMATED SINCE ACTUAL LOCATIONS OF EXPANSION JOINTS MAY VARY.



**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
WATER RESOURCES ENGINEERING  
APPROVED FOR CONSTRUCTION  
Date: 07/31/2025



**STONEY PT RD 2**  
SCALE: HOR 1"=40'; VERT 1"=4'

|                        |            |
|------------------------|------------|
| DATE: 07/28/2025       | REVISIONS: |
| SURVEY/GPS BY: MBC/GPI |            |
| DRAWN BY: VR / DK      |            |
| CHECKED BY: AMH / MY   |            |
| SCALE: HOR 1"=40'      |            |
| VERT: 1"=4'            |            |

**WICKSON**  
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Transportation + Stormwater  
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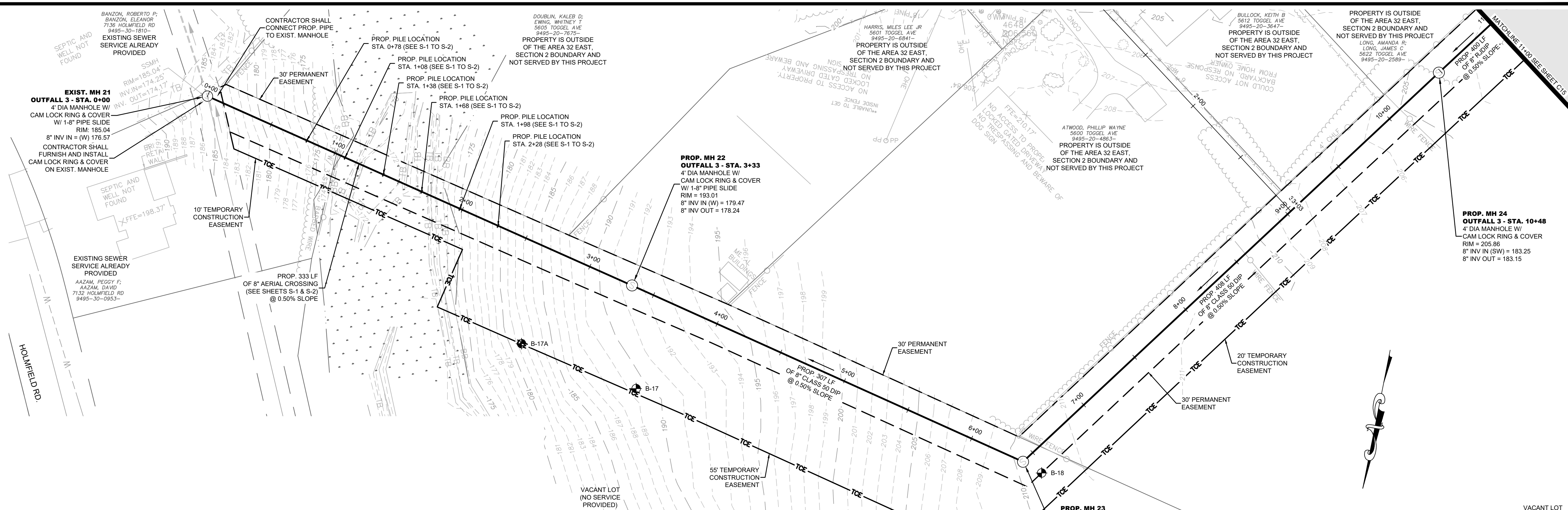
**SEWER MAIN - STONEY PT RD 2**  
ANNEXATION PHASE V, AREA 27  
FAYETTEVILLE, NORTH CAROLINA

SHEET # C13



**PUBLIC WORKS COMMISSION**  
OF THE CITY OF FAYETTEVILLE  
**FWC** WATER RESOURCES ENGINEERING  
P.O. Box 1085, Fayetteville, NC 28302  
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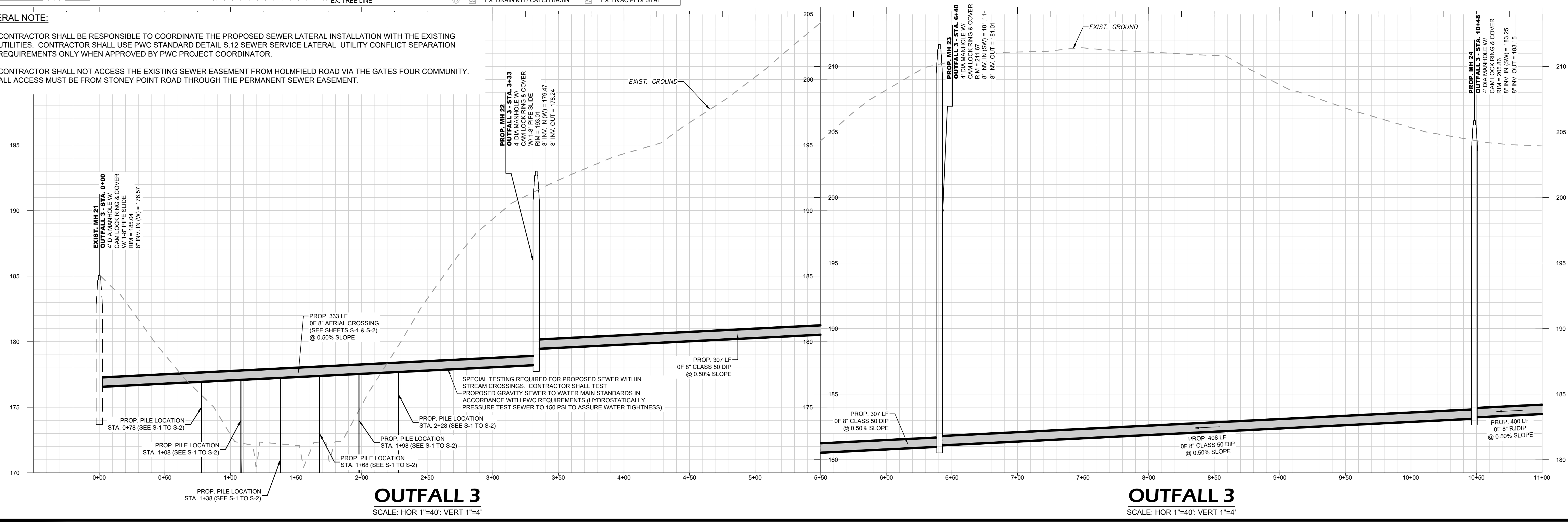


**LEGEND**

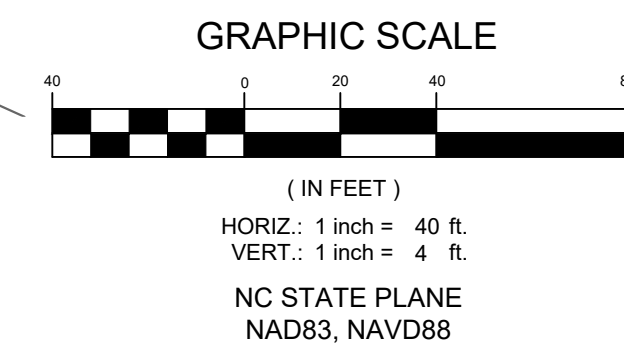
|  |  |  |   |
|--|--|--|---|
| <ul style="list-style-type: none"> <li>PROF. UTILITY EASEMENT</li> <li>PROF. SAN SEWER, CLEANOUT &amp; MH</li> <li>PROF. WATER LINE</li> <li>PROF. BORE &amp; JACK W/ ENCASEMENT</li> <li>TCE</li> <li>PROF. TEMP CONSTRUCTION ESMT.</li> <li>PROF. RIGHT OF ENTRY</li> <li>PROF. LIMIT OF DISTURBANCE</li> <li>PROF. LIMIT OF WORK</li> <li>PROF. SILT / SAFETY FENCE</li> <li>EX. TOP OF BANK / TOP OF SLOPE</li> <li>EX. BOTTOM OF BANK / SLOPE</li> <li>EX. WETLANDS / WETL. BOUNDARY</li> </ul> | <ul style="list-style-type: none"> <li>EX. RIGHT-OF-WAY</li> <li>EX. SANITARY SEWER &amp; MANHOLE</li> <li>EX. WATER LINE &amp; WATER VALVE</li> <li>EX. WATER LINE (RECORD DRAWING)</li> <li>EX. GAS LINE / UNDERGROUND GAS</li> <li>EX. ELECTRIC / UNDERGROUND ELEC.</li> <li>EX. OVERHEAD ELECTRIC LINE</li> <li>EX. TELEPHONE / UNDERGROUND TEL.</li> <li>EX. TELEPHONE LINE (RECORD DWG)</li> <li>EX. CABLE TV / FIBER OPTIC LINE</li> <li>EX. TRAFFIC SIGNAL LINE</li> <li>EX. UNKNOWN UTILITY</li> <li>EX. FENCE LINE</li> <li>EX. FENCE LINE</li> <li>EX. TREE LINE</li> </ul> | <ul style="list-style-type: none"> <li>PROF. REVERSE PLUMBING</li> <li>PROF. BACKWATER VALVE</li> <li>PROF. GRINDER PUMP</li> <li>PROF. / EX. HYDRANT</li> <li>EX. WATER METER</li> <li>EX. WELL HEAD</li> <li>EX. SEPTIC TANK</li> <li>EX. POWER POLE</li> <li>EX. GUY WIRE</li> <li>EX. ELECTRIC BOX / METER</li> <li>EX. ELECTRIC TRANSFORMER</li> <li>EX. CATV PEDESTAL</li> <li>EX. DRAIN MH / CATCH BASIN</li> </ul> | <ul style="list-style-type: none"> <li>EX. TREE / BUSH</li> <li>MAILBOX</li> <li>LAMP / LIGHT POLE</li> <li>SUE/SOIL BORING LOCATION</li> <li>SIGN</li> <li>IRON ROD FOUND</li> <li>IRON PIPE FOUND</li> <li>PK NAIL FOUND</li> <li>CONCRETE MONUMENT</li> <li>CONTROL POINT</li> <li>EX. UTILITY POLE</li> <li>EX. TELE. PEDESTAL / MH</li> <li>EX. HVAC PEDESTAL</li> </ul> |
|--|--|--|---|

**GENERAL NOTE:**

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL NOT ACCESS THE EXISTING SEWER EASEMENT FROM HOLMFIELD ROAD VIA THE GATES FOUR COMMUNITY. ALL ACCESS MUST BE FROM STONEY POINT ROAD THROUGH THE PERMANENT SEWER EASEMENT.



**FWC** FAYETTEVILLE PUBLIC WORKS COMMISSION  
 WATER RESOURCES ENGINEERING  
 APPROVED FOR CONSTRUCTION  
 Date: 07/31/2025



|                |            |            |            |
|----------------|------------|------------|------------|
| BY:            | DATE:      | DATE:      | DATE:      |
| DESIGNED:      | 07/28/2025 | 07/28/2025 | 07/28/2025 |
| CHECKED:       | 07/28/2025 | 07/28/2025 | 07/28/2025 |
| DATE:          | 07/28/2025 | 07/28/2025 | 07/28/2025 |
| SURVEY/GPS BY: | MBC/GPI    |            |            |
| DRAWN BY:      | VAR        |            |            |
| CHECKED BY:    | AMH / MY   |            |            |
| SCALE:         | 1" = 40'   | 1" = 4'    | 1" = 40'   |
| SHEET #:       | 174        |            |            |

**WICKSON**  
 PROFESSIONAL ENGINEER  
 770 Corporate Center Drive  
 Raleigh, NC 27603  
 (919) 782-0485  
 www.wickson.com

**WATER RESOURCES ENGINEERING**  
 PUBLIC WORKS COMMISSION  
 OF THE CITY OF FAYETTEVILLE  
 P.O. Box 1081, Fayetteville, NC 28302  
 855 6th Wilmington Road, Fayetteville, NC 28301

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