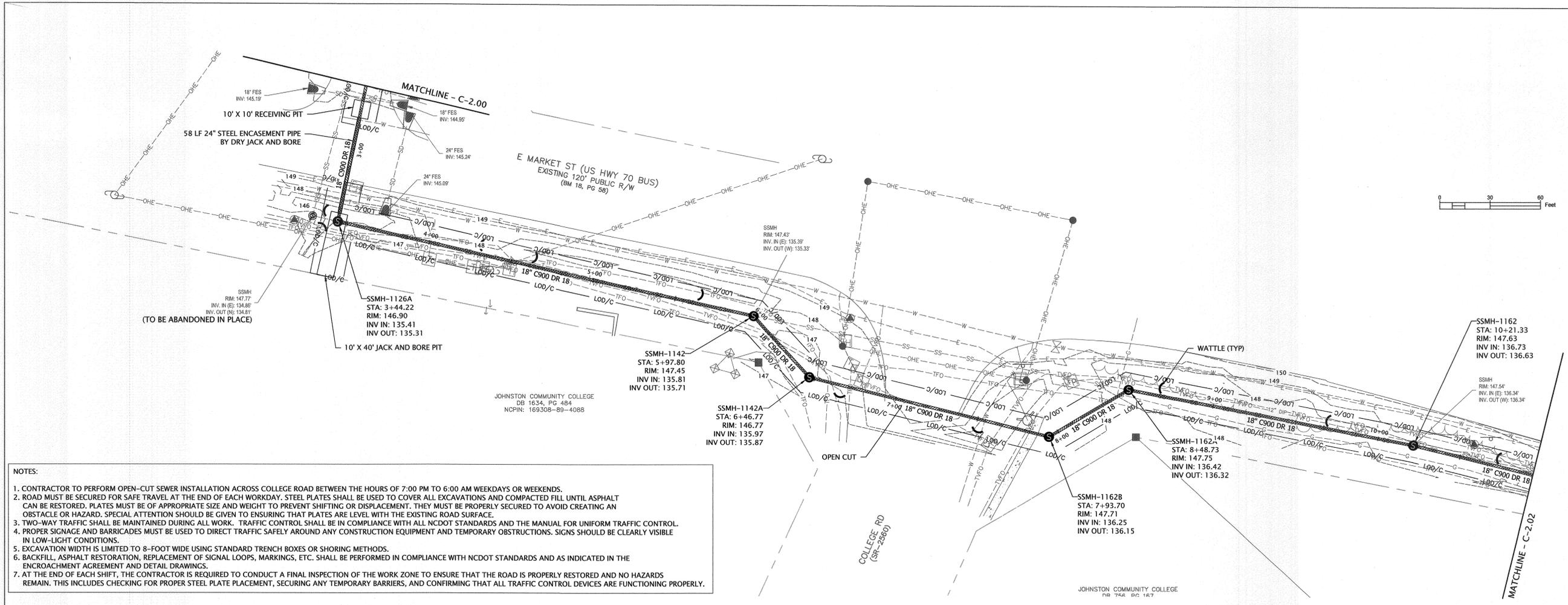
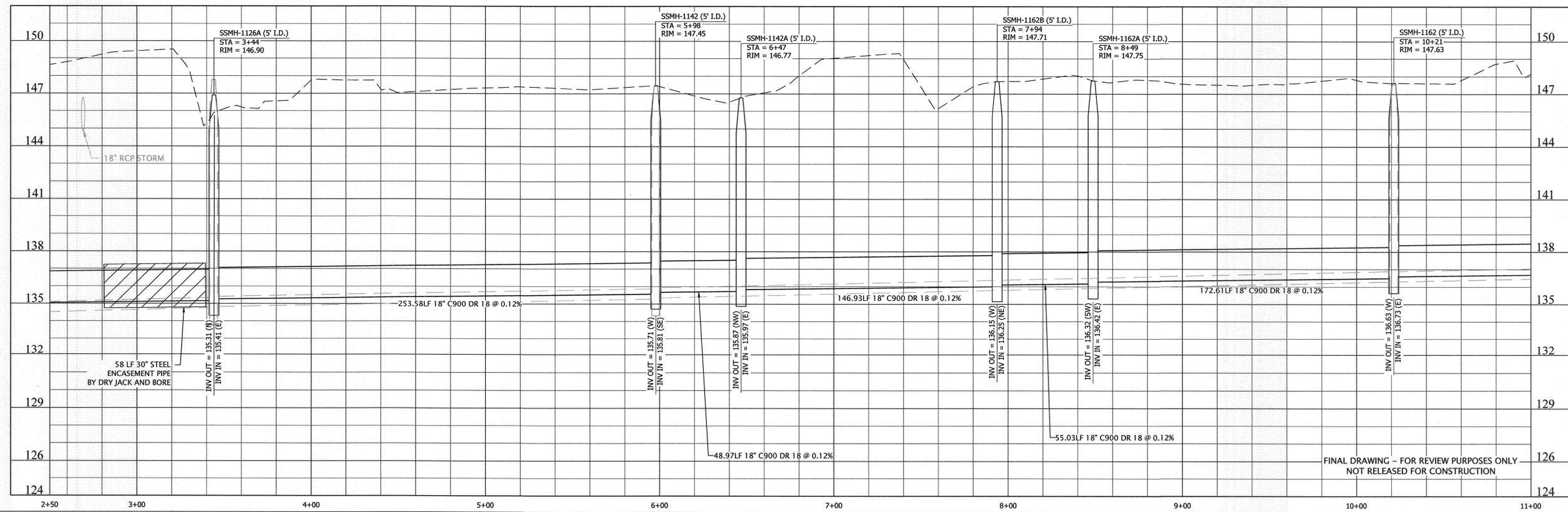


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 9504 Barker Rd, New Hill, NC 27562 LICENSE # P-2436



- NOTES:**
- CONTRACTOR TO PERFORM OPEN-CUT SEWER INSTALLATION ACROSS COLLEGE ROAD BETWEEN THE HOURS OF 7:00 PM TO 6:00 AM WEEKDAYS OR WEEKENDS.
  - ROAD MUST BE SECURED FOR SAFE TRAVEL AT THE END OF EACH WORKDAY. STEEL PLATES SHALL BE USED TO COVER ALL EXCAVATIONS AND COMPACTED FILL UNTIL ASPHALT CAN BE RESTORED. PLATES MUST BE OF APPROPRIATE SIZE AND WEIGHT TO PREVENT SHIFTING OR DISPLACEMENT. THEY MUST BE PROPERLY SECURED TO AVOID CREATING AN OBSTACLE OR HAZARD. SPECIAL ATTENTION SHOULD BE GIVEN TO ENSURING THAT PLATES ARE LEVEL WITH THE EXISTING ROAD SURFACE.
  - TWO-WAY TRAFFIC SHALL BE MAINTAINED DURING ALL WORK. TRAFFIC CONTROL SHALL BE IN COMPLIANCE WITH ALL NCDOT STANDARDS AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL.
  - PROPER SIGNAGE AND BARRICADES MUST BE USED TO DIRECT TRAFFIC SAFELY AROUND ANY CONSTRUCTION EQUIPMENT AND TEMPORARY OBSTRUCTIONS. SIGNS SHOULD BE CLEARLY VISIBLE IN LOW-LIGHT CONDITIONS.
  - EXCAVATION WIDTH IS LIMITED TO 8-FOOT WIDE USING STANDARD TRENCH BOXES OR SHORING METHODS.
  - BACKFILL, ASPHALT RESTORATION, REPLACEMENT OF SIGNAL LOOPS, MARKINGS, ETC. SHALL BE PERFORMED IN COMPLIANCE WITH NCDOT STANDARDS AND AS INDICATED IN THE ENCROACHMENT AGREEMENT AND DETAIL DRAWINGS.
  - AT THE END OF EACH SHIFT, THE CONTRACTOR IS REQUIRED TO CONDUCT A FINAL INSPECTION OF THE WORK ZONE TO ENSURE THAT THE ROAD IS PROPERLY RESTORED AND NO HAZARDS REMAIN. THIS INCLUDES CHECKING FOR PROPER STEEL PLATE PLACEMENT, SECURING ANY TEMPORARY BARRIERS, AND CONFIRMING THAT ALL TRAFFIC CONTROL DEVICES ARE FUNCTIONING PROPERLY.



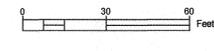
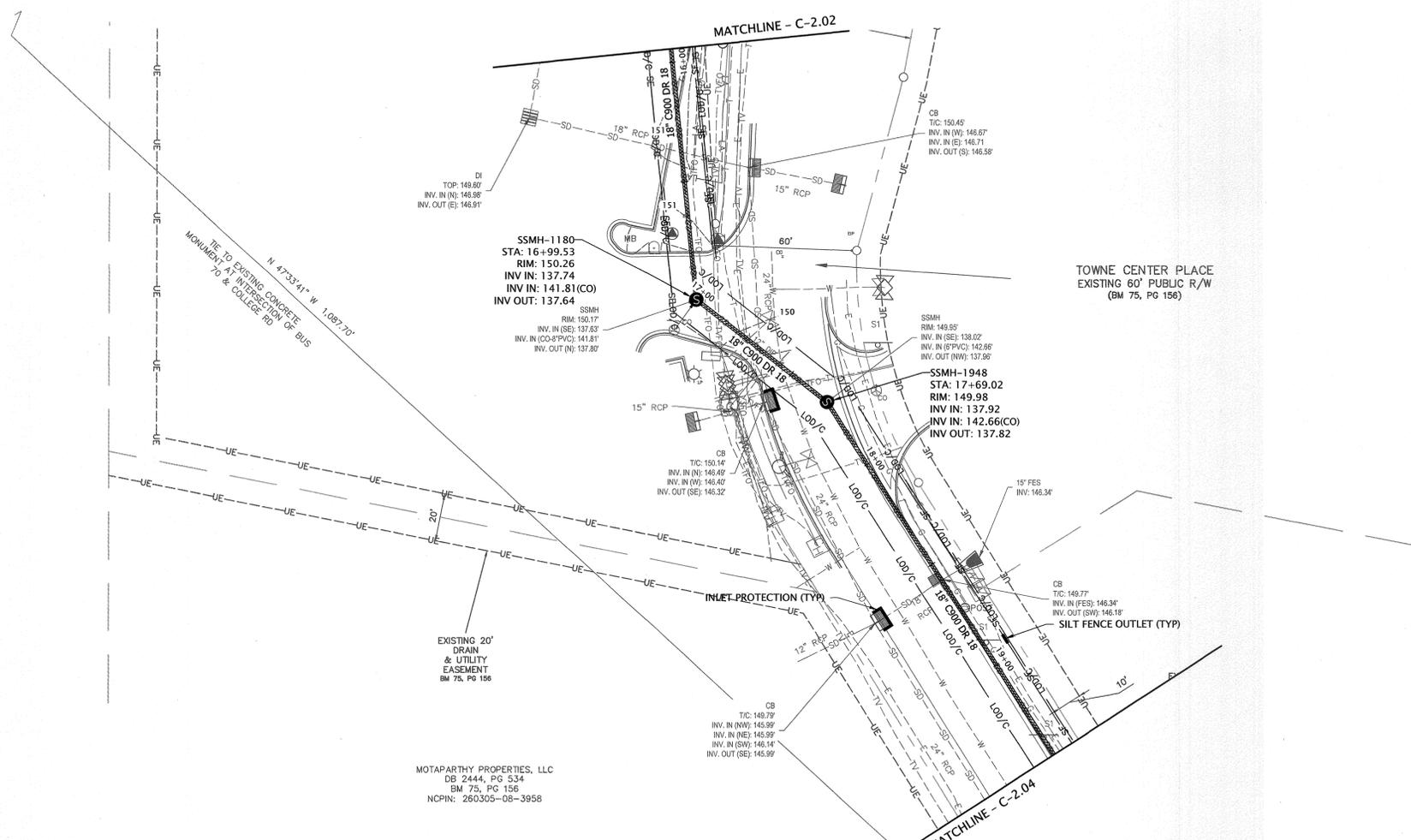
PS#11 AND OUTFALL IMPROVEMENTS -  
 MARKET STREET SEWER REPLACEMENT -  
 TOWN OF SMITHFIELD, NC  
 PROPOSED SANITARY SEWER  
 PLAN & PROFILE

REVISIONS	
NO.	DESCRIPTION

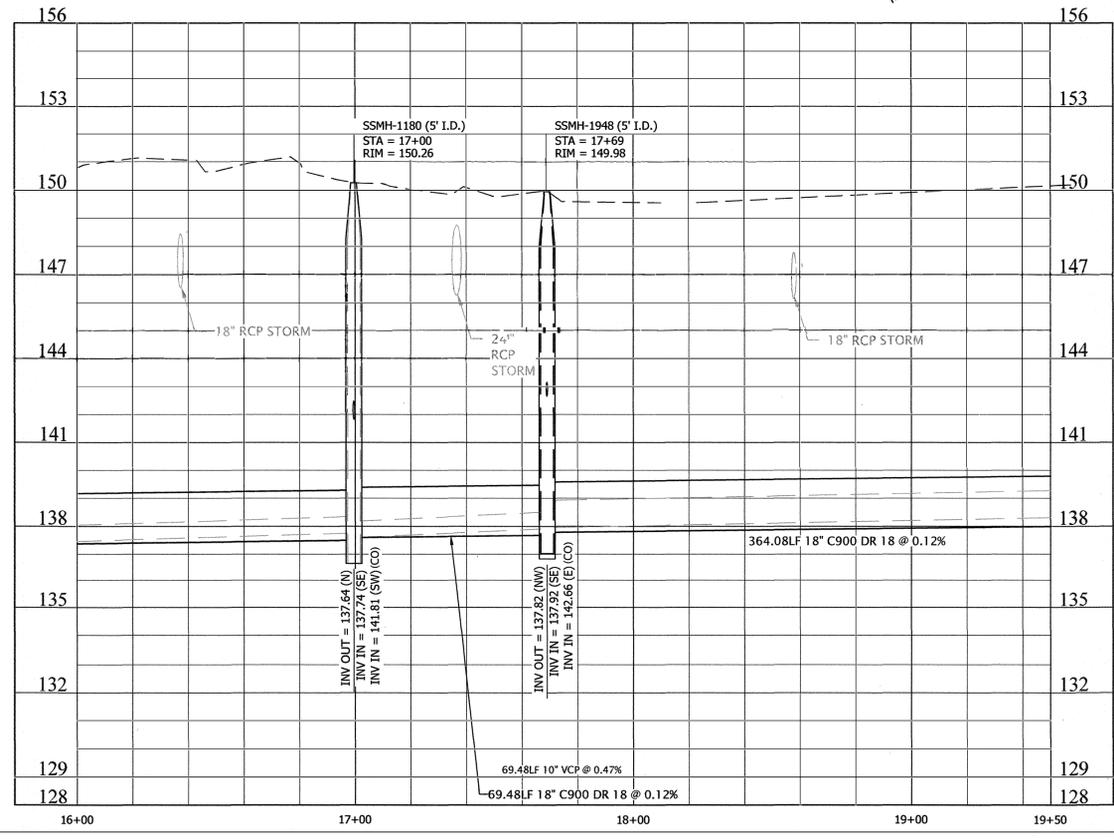
DATE: SEPT-2025  
 DESIGNED: BAS  
 DRAWN: BAS  
 CHECKED: BAS  
 SHEET: C-2.01

FINAL DRAWING - FOR REVIEW PURPOSES ONLY  
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MOTAPARTHY PROPERTIES, LLC  
 DB 2444, PG 534  
 BM 75, PG 156  
 NCPIN: 260305-08-3958



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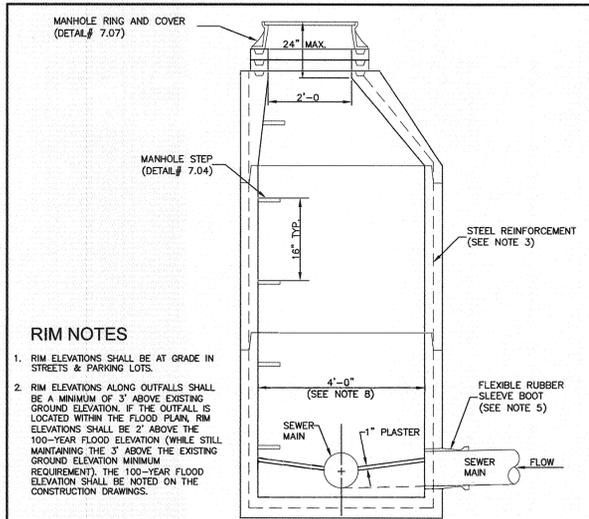
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 9504 Barker Rd, New Hill, NC 27562 LICENSE # P-2436

PS#11 AND OUTFALL IMPROVEMENTS -  
 MARKET STREET SEWER REPLACEMENT -  
 TOWN OF SMITHFIELD, NC  
 PROPOSED SANITARY SEWER  
 PLAN & PROFILE

REVISIONS	
NO.	DESCRIPTION

DATE: SEPT-2025  
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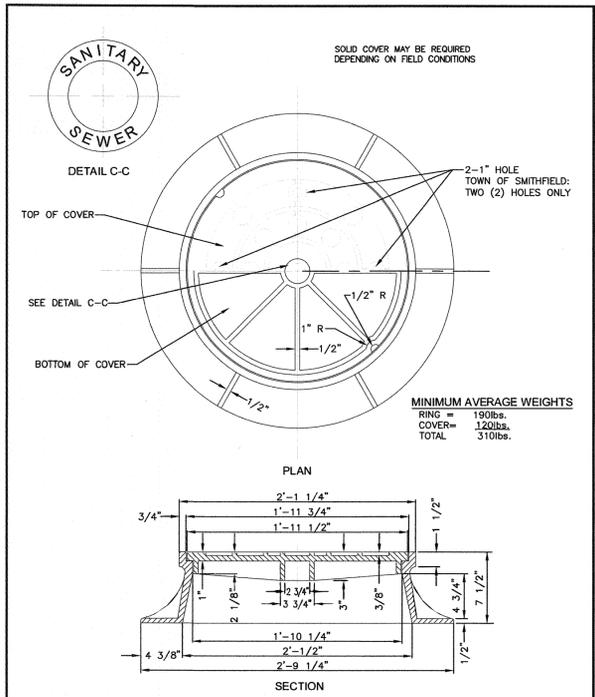
- RIM NOTES**
- RIM ELEVATIONS SHALL BE AT GRADE IN STREETS & PARKING LOTS.
  - RIM ELEVATIONS ALONG OUTFALLS SHALL BE A MINIMUM OF 3' ABOVE EXISTING GROUND ELEVATION. IF THE OUTFALL IS LOCATED WITHIN THE FLOOD PLAIN, RIM ELEVATIONS SHALL BE 2' ABOVE THE 100-YEAR FLOOD ELEVATION (WHILE STILL MAINTAINING THE 3' ABOVE THE EXISTING GROUND ELEVATION MINIMUM REQUIREMENT). THE 100-YEAR FLOOD ELEVATION SHALL BE NOTED ON THE CONSTRUCTION DRAWINGS.
- GENERAL NOTES**
- ALL PRE CAST CONCRETE MANHOLES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478.
  - CONCRETE SHALL BE 4000 PSI AT 28 DAYS MINIMUM.
  - STEEL REINFORCEMENT SHALL BE GRADE 40 BILLET STEEL CONFORMING TO THE LATEST REVISION OF ASTM-A-185 FOR WALL REINFORCEMENT, AND THE LATEST REVISION OF ASTM-A615 FOR THE BASE REINFORCEMENT.
  - STANDARD JOINTS SHALL BE SEALED WITH PUTTY TYPE PLASTIC CEMENT PER FED. SPEC. SS-C-153 OR AN O-RING TYPE JOINT CONFORMING TO THE LATEST REVISION OF ASTM-C443.
  - MANHOLE INLETS AND OUTLETS SHALL BE CAST IN PLACE FLEXIBLE RUBBER SLEEVES BOOTS PER THE LATEST REVISION OF ASTM-C923.
  - INVERTS TO BE CONSTRUCTED OF BRICK WITH A CONCRETE BENCH (DETAIL# 07.xx).
  - THE MAXIMUM SEPARATION OR INVERT IN TO INVERT OUT WITHIN A MANHOLE IS 0.50 FEET.
  - MANHOLES GREATER THAN 18 FEET IN DEPTH SHALL HAVE AN INSIDE DIAMETER OF 5'-0". FOR SANITARY SEWER MANHS GREATER THAN EIGHTEEN INCHES (18") IN DIAMETER, MANHOLES SHALL BE A MINIMUM OF 5'-0" IN DIAMETER.

**SMITHFIELD NORTH CAROLINA**

**STANDARD SANITARY SEWER MANHOLE**

SMITHFIELD, NORTH CAROLINA PUBLIC UTILITIES

SCALE: NTS  
DETAIL NO. 07.03  
DATE: 04/03/2018



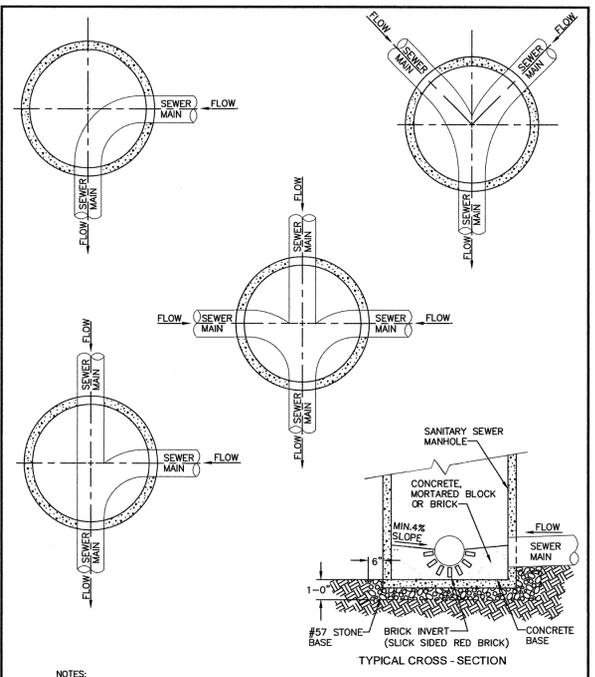
PROVIDE MANHOLE INSERTS MANUFACTURED FROM HIGH DENSITY POLYETHYLENE, MEETING THE REQUIREMENTS OF ASTM D-1248, CLASS A, CATEGORY 5, TYPE III. INSERTS SHALL BE EQUIPPED WITH 1 GAS RELIEF VALVE, 1 VACUUM RELIEF VALVE, A CROSS-LINKED POLYETHYLENE GASKET AND ONE HEAVY WEIGHT POLYPROPYLENE LIFTING STRAP.

**SMITHFIELD NORTH CAROLINA**

**STANDARD MANHOLE RING & COVER**

SMITHFIELD, NORTH CAROLINA PUBLIC UTILITIES

SCALE: NTS  
DETAIL NO. 07.06  
DATE: 04/03/2018



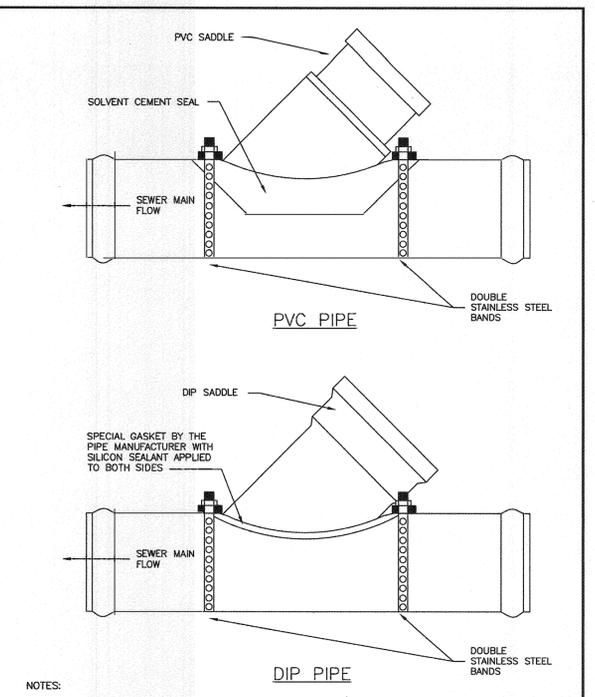
- NOTES:**
- INVERT MATERIAL SHALL BE CONCRETE CAST IN PLACE WITH A SMOOTH FINISH.
  - WIDTH OF INVERT SHALL MATCH INSIDE DIAMETER OF INCOMING AND OUTGOING PIPES.
  - BRICK INVERT SHALL BE FORMED AS SHOWN.
  - ALL INVERT ELEVATIONS SHALL BE AS SHOWN ON APPROVED CONSTRUCTION PLANS.
  - BENCHES TO BE BUILT OUT OF CONCRETE, MORTARED BLOCK OR BRICK. STONE IS NOT ACCEPTABLE.

**SMITHFIELD NORTH CAROLINA**

**INSIDE DROP MANHOLE**

SMITHFIELD, NORTH CAROLINA PUBLIC UTILITIES

SCALE: NTS  
DETAIL NO. 07.10  
DATE: 04/03/2018



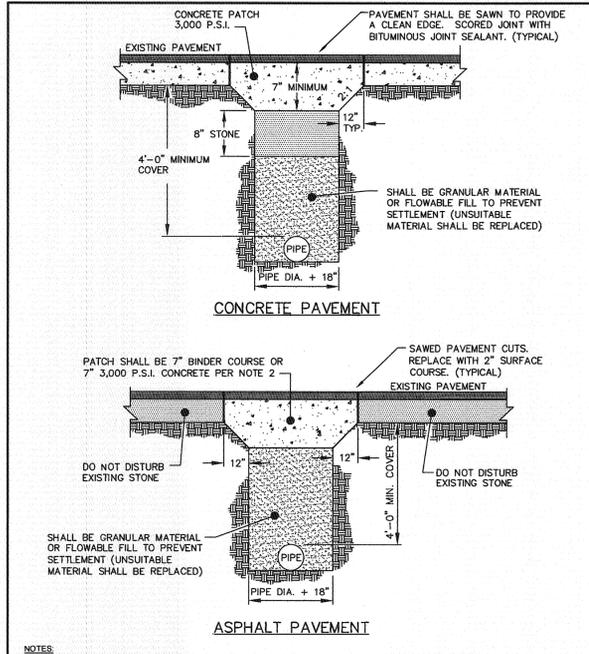
- NOTES:**
- IN LINE WYES TO BE USED WHERE POSSIBLE ON NEW CONSTRUCTION AND REPAIR PROJECTS
  - PVC SOLVENT CEMENT SHALL BE USED FOR PVC SADDLES
  - ALL BANDS SHALL BE STAINLESS STEEL

**SMITHFIELD NORTH CAROLINA**

**STANDARD LATERAL CONNECTION**

SMITHFIELD, NORTH CAROLINA PUBLIC UTILITIES

SCALE: NTS  
DETAIL NO. 07.02  
DATE: 04/03/2018



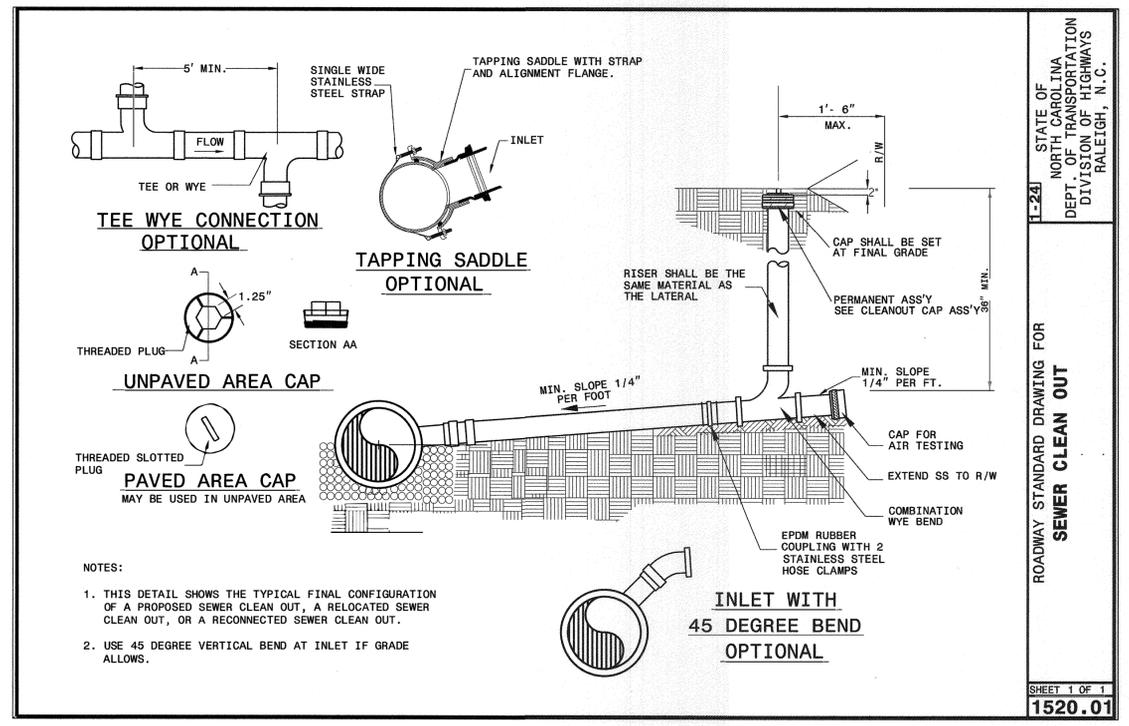
- NOTES:**
- ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN A MAXIMUM OF THREE (3) DAYS FROM THE DATE THE CUT IS MADE.
  - CONCRETE TRENCH CAP ON ASPHALT STREETS SHALL BE USED ONLY DURING INCLEMENT WEATHER WHEN ASPHALT PLANTS ARE NOT OPERATING.
  - IN ALL OPEN TRENCHES, BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPACTON REQUIREMENTS BY SOIL TESTING CERTIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER.
  - BACKFILL WITH A HIGH CLAY CONTENT, HIGH SHRINK-SWELL POTENTIAL, OR HIGH MOISTURE CONTENT THAT CANNOT MEET COMPACTON REQUIREMENTS SHALL BE DEEMED UNSUITABLE AND SHALL BE REPLACED WITH SUITABLE BACKFILL MATERIAL.
  - ALL PAVEMENT PATCHES SHALL PROVIDE A UNIFORM AND SMOOTH DRIVING SURFACE.

**SMITHFIELD NORTH CAROLINA**

**BEDDING FOR SANITARY SEWER PIPE**

SMITHFIELD, NORTH CAROLINA PUBLIC UTILITIES

SCALE: NTS  
DETAIL NO. 07.16  
DATE: 04/03/2018



- NOTES:**
- THIS DETAIL SHOWS THE TYPICAL FINAL CONFIGURATION OF A PROPOSED SEWER CLEAN OUT, A RELOCATED SEWER CLEAN OUT, OR A RECONNECTED SEWER CLEAN OUT.
  - USE 45 DEGREE VERTICAL BEND AT INLET IF GRADE ALLOWS.

**SMITHFIELD NORTH CAROLINA**

**ROADWAY STANDARD DRAWING FOR SEWER CLEAN OUT**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

DATE: SEPT-2025  
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DRAWN: BAS  
CHECKED: BAS  
SHEET: 1 OF 1  
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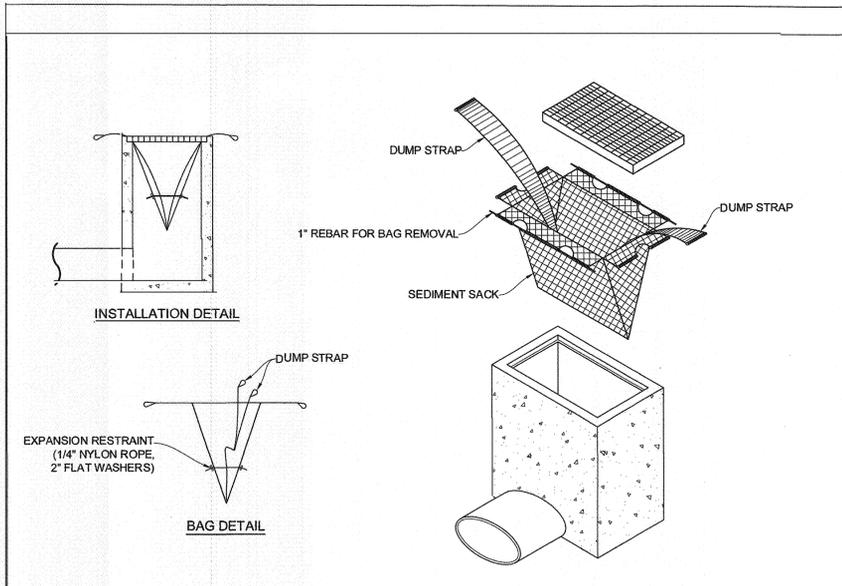
PS#11 AND OUTFALL IMPROVEMENTS - MARKET STREET SEWER REPLACEMENT - TOWN OF SMITHFIELD, NC

SANITARY SEWER DETAILS

NO.	REVISIONS	DATE	BY

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

C-3.00



**INLET SEDIMENT CONTROL DEVICE**  
NOT TO SCALE

**EROSION CONTROL MAINTENANCE NOTES:**

**INLET PROTECTION**

INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT 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 RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER (SURFACE STABILIZATION).

WATTLE/WATTLE BARRIER/COMPOST FILTER SOCK/SILT SOCK INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

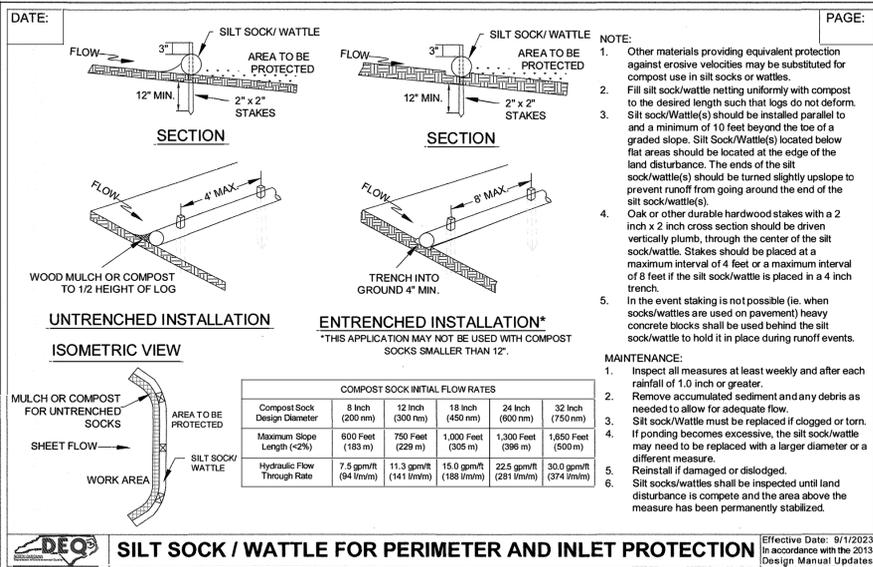
**SILT SOCK / WATTLE FOR CHECK DAMS**

INSPECT SILT SOCK(WATTLE(S)) WEEKLY AND AFTER EACH 1 INCH OR GREATER RAIN. REMOVE CUMULATED SEDIMENT AND ANY DEBRIS. SILT SOCK(WATTLE) MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SILT SOCK(WATTLE) MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. REINSTALL IF DAMAGED OR DISLODGED. SILT SOCKS(WATTLES) SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE IS PERMANENTLY STABILIZED.

**SILT FENCE**

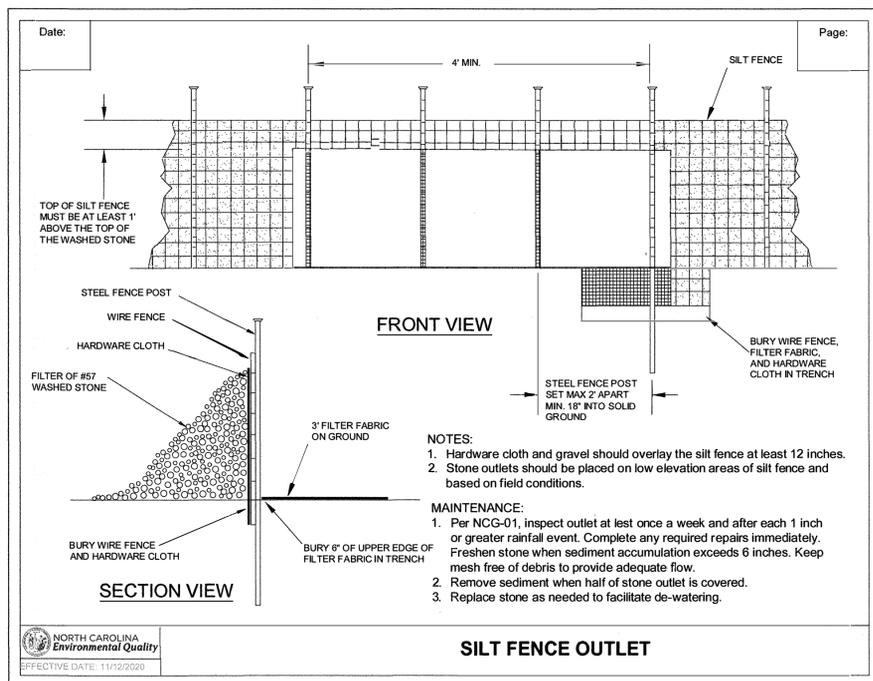
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

CONTACT RESPONSIBLE FOR MAINTENANCE: TOWN OF SMITHFIELD



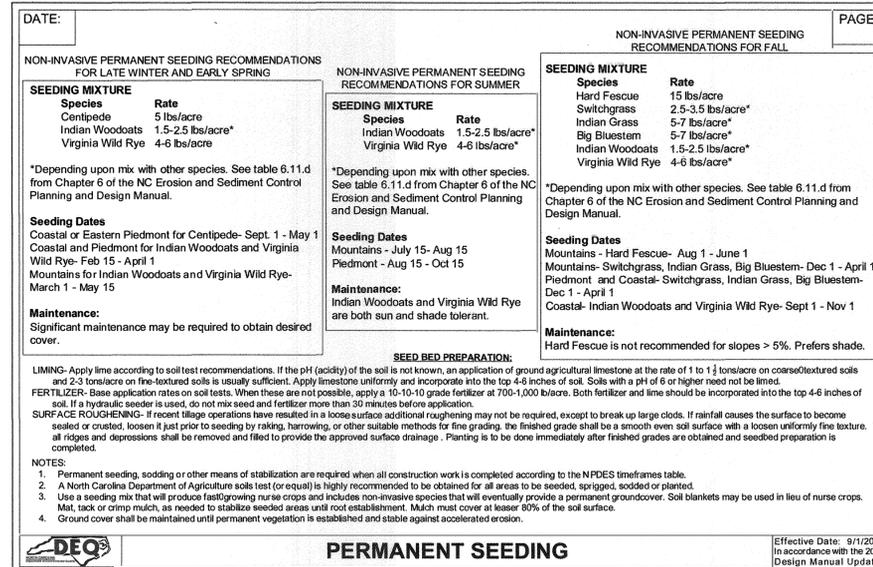
**SILT SOCK / WATTLE FOR PERIMETER AND INLET PROTECTION**

Effective Date: 9/1/2023  
in accordance with the 2013 Design Manual Updates



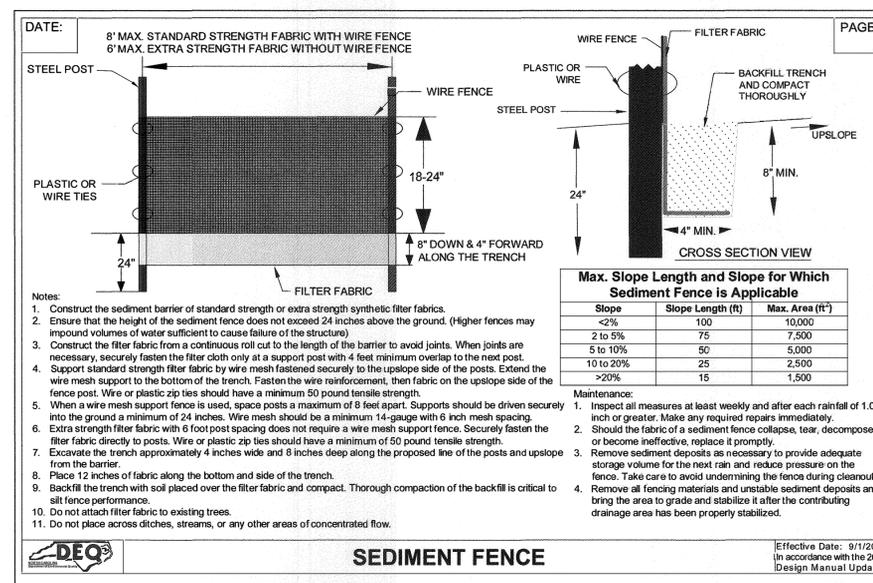
**SILT FENCE OUTLET**

NORTH CAROLINA Environmental Quality  
EFFECTIVE DATE: 11/12/2020



**PERMANENT SEEDING**

Effective Date: 9/1/2023  
in accordance with the 2013 Design Manual Updates



**SEDIMENT FENCE**

Effective Date: 9/1/2023  
in accordance with the 2013 Design Manual Updates

PS#11 AND OUTFALL IMPROVEMENTS - MARKET STREET SEWER REPLACEMENT - TOWN OF SMITHFIELD, NC

REVISIONS

NO.	DESCRIPTION	DATE	BY

DATE: SEPT-2025  
DESIGNED: BAS  
DRAWN: BAS  
CHECKED: BAS  
SHEET:



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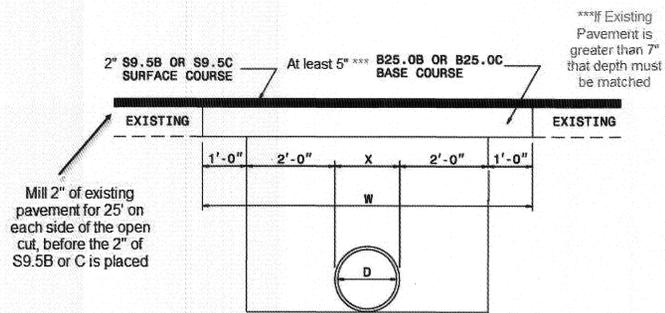
SEE, PLLC.  
SYKES ENVIRONMENTAL ENGINEERING, PLLC.  
9504 Barker Rd, New Hill, NC 27562 LICENSE # P-2436

EROSION CONTROL DETAILS

C-3.01

### PAVEMENT REPAIR FOR OPEN CUT INSTALLATION

(Not to Scale)



- The minimum width for the open cut shall be according to the drawing above
- Only one half of the roadway shall be open cut at a time in order to maintain traffic flow.
- Pavement cuts shall be repaired the same day a cut is made. If the open cut is required for more than one day, the Encroacher shall place a temporary bituminous patch or steel plate at the close of each day's operations.
- The owner/contractor shall repair the open cut by backfilling with flowable fill or compacted Aggregate Base Course flush to existing pavement or to within 7 inches of the asphalt surface whichever is greater depth.
- If Aggregate Base Course is used in lieu of flowable fill, a density test sealed by a professional engineer SHALL be required on the compacted Aggregate Base Course and SHALL be installed in accordance with Section 520 of the latest NCDOT Standard Specifications.
- The final patch for the Road Way cut area shall be a minimum of 7 inches of B-25.0C or greater to match existing pavement structure finished flush with existing pavement. B-25.0C shall only be placed in 3 - 5.5 inch layers.
- The entire roadway shall be milled 2" for 25' on both sides on open cut. The entire milled section and open cut will then be mechanical overlaid with 2" of S9.5B to maintain existing pavement slope and grade. If any portion of a travel lane is open cut the entire lane must be milled.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC CONTROL DESIGN TABLES SPACING OF TEMPORARY SIGNS IN SERIES

ADVANCE WARNING SIGN SPACING CHART

POSTED SPEED LIMIT (MPH)	RECOMMENDED DISTANCE BETWEEN SIGNS (FEET)		
	(A)	(B)	(C)
< 35	200	300	300
40-50	300	300	300
55	500	500	500
CONTROLLED ACCESS ROAD (100)	1000	1500	2700

STATIONARY OR PORTABLE SIGNS

GENERAL NOTES

- 1- REFER TO 2009 MUTCD.
- 2- USE THIS STANDARD DRAWING IN CONJUNCTION WITH OTHER TRAFFIC CONTROL ROADWAY STANDARD DRAWINGS WHERE SIGN SPACING DISTANCES A, B, C, ARE SPECIFIED.
- 3- APPLY THE ADVANCE WARNING SIGN SPACING CHART WHERE A SERIES OF 2 OR MORE SIGNS ARE USED. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE. FIELD ADJUST AS VARIOUS CONDITIONS OCCUR, SUCH AS LIMITED SIGHT DISTANCE, OBSTRUCTION INTERFERENCE, ETC.

SHEET 1 OF 1  
1101.11

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TEMPORARY LANE CLOSURES 2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

GENERAL NOTES FOR FLAGGER OPERATIONS

- 1- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.
- 2- INITIAL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF THE CUT.
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE CUT.
- 4- PLACE CONES WITHIN THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE WIDTH OF THE ROADWAY.
- 5- EXTEND AND CLOSE OFF THE UPPER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- CONES OR SIGNETS SHALL BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 1100.01 FOR BALLAST CONE REQUIREMENTS.
- 8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS APPLICABLE TO THE LANE CLOSURE. PLACE FLAGGERS UPSTREAM AND DOWNSTREAM OF THE LANE CLOSURE. USE OF FLAGGERS AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE DEPARTMENT'S APPROVED PRODUCTS LIST AT <https://apps.dot.state.nc.us/vendor/approvedproducts>.
- 9- REFER TO 2008 MUTCD, CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- 10- DO NOT EXCEED A 1/2 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TWP OR DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 66 FEET TO EACH SIDE, CONES MAY NOT BE OMITTED ALONG THE WORK AREA PER THE DISCRETION OF THE ENGINEER. CONES MAY BE OMITTED ALONG THE WORK AREA USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- 4- PILOT CAR FOLLOW ME AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- DO NOT EXCEED 1/2 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TWP OR DIRECTED BY THE ENGINEER.
- 6- ADVISE RESIDENTS AND BUSINESSMEN WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE TRAVEL AND TRAVEL TIMES DURING LANE CLOSURES.

LEGEND

- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1  
1101.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PORTABLE WORK ZONE SIGNS MOUNTING HEIGHT & LATERAL CLEARANCE

LATERAL CLEARANCE:

- 1- MINIMUM FROM TRAVEL LANE
- 2- PLACE SIGN BEHIND SHOULDER POINT IF IT CANNOT BE PLACED ALONG THE SHOULDER
- 3- LANE CLOSURE ON THE TRAVELING SIDE OF THE SHOULDER APPLIES FROM THE OPEN LANE

MOUNTING HEIGHT DIMENSIONS:

- 1- FOR THE CONE, THE HEIGHT FROM THE ROAD SURFACE TO THE CENTER OF THE SIGN SHALL BE 4' MINIMUM.
- 2- FOR ALL OTHER SIGNS, THE HEIGHT FROM THE ROAD SURFACE TO THE CENTER OF THE SIGN SHALL BE 5' MINIMUM.

GENERAL NOTES

- 1- DIMENSIONS SHOWN ARE MINIMUM VALUES. MOUNT SIGNS SO THEY WILL BE CLEARLY VISIBLE TO APPROACHING TRAFFIC EVEN WHEN SIGNS ARE MOUNTED BEHIND TRAFFIC CONTROL DEVICES SUCH AS CONES, BARRIERS, OR OTHER OBJECTS.
- 2- ALL PORTABLE SIGNS AND STANDS MUST MEET OR EXCEED THE REQUIREMENTS OF MCHP 300 FOR CATEGORY II DEVICES. USE PORTABLE WORK ZONE SIGNS AND STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER.
- 3- ALL PORTABLE WORK ZONE SIGNS AND STANDS MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCTS LIST AT <https://apps.dot.state.nc.us/vendor/approvedproducts>.

SHEET 1 OF 1  
1110.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC CONTROL DESIGN TABLES "L" DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

EXAMPLE OF "L" & "W" DESIGNATIONS

TAPER LENGTH CRITERIA FOR CHANNELIZING DEVICES IN WORK ZONES

POSTED SPEED (MPH)	MINIMUM LONGITUDINAL DISTANCE "L" (FEET)											
	1	2	3	4	5	6	7	8	9	10	11	12
20	10	15	20	30	35	40	50	55	60	70	75	80
25	15	20	25	35	40	45	55	60	70	75	80	85
30	20	25	30	40	45	50	60	65	75	80	85	90
35	25	30	35	45	50	55	65	70	80	85	90	95
40	30	35	40	50	55	60	70	75	85	90	95	100
45	35	40	45	55	60	65	75	80	90	95	100	105
50	40	45	50	60	65	70	80	85	95	100	105	110
55	45	50	55	65	70	75	85	90	100	105	110	115
60	50	55	60	70	75	80	90	95	105	110	115	120
65	55	60	65	75	80	85	95	100	110	115	120	125
70	60	65	70	80	85	90	100	105	115	120	125	130
75	65	70	75	85	90	95	105	110	120	125	130	135
80	70	75	80	90	95	100	110	115	125	130	135	140
85	75	80	85	95	100	105	115	120	130	135	140	145
90	80	85	90	100	105	110	120	125	135	140	145	150
95	85	90	95	105	110	115	125	130	140	145	150	155
100	90	95	100	110	115	120	130	135	145	150	155	160
105	95	100	105	115	120	125	135	140	150	155	160	165
110	100	105	110	120	125	130	140	145	155	160	165	170
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425	415	420	425	435	440	445	455	460	470	475	480	485
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