



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

August 07, 2025

Addendum No. 1

RE: Contract # C205076

WBS # 44369.3.3

STATE FUNDED

Cumberland and Hoke Counties (**U-5798B**)

SR-1102 (GILLIS HILL RD) FROM SOUTH OF CELTIC DR TO NORTH OF
SR- 1112 (STONE POINT RD).

August 19, 2025 Letting

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revisions have been made to the Utility Construction Plans.

Sheet No.	Revision
UC-06, UC-06A	Easement line style removed.
UC-08	Fire hydrant leg quantities updated. Bore pit at -WL-6-STA.00+30.70 reduced in size from 20' x 40' to 20' x 30' to within our easement.

Please void the above listed Sheets in your plans and staple the revised Sheets thereto.

The following revision has been made to the Structures Plans.

Sheet No.	Revision
C-1	Pre-cast option for box culvert in lieu of cast-in place removed from notes.

Please void the above listed Sheet in your plans and staple the revised Sheet thereto.

The following revisions have been made to the proposal.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 08-07-2025".
ST-1	The Unit Project Special Provisions (Structures) have been revised. Table of Contents updated to remove OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT AT STATION 25+46.30 -LB- provision reference.
ST-16 thru ST-23 (Deleted)	The Unit Project Special Provision (Structures) entitled OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT AT STATION 25+46.30 -LB- has been deleted. Pre-cast option for box culvert at STA. 25+46.30 -LB- removed from the project.

Please void the above listed Pages in your proposal and staple the revised Pages thereto. Delete pages ST-16 thru ST-23.

On the item sheets the following pay item revision has been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0132-5673000000-E 1515	FIRE HYDRANT LEG	141 LF	130 LF

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

Signed by:

 5AE54B6DC24B4A9...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/cms/jcm
Attachments

cc: Mr. Wiley W. Jones III, PE Mr. Forrest Dungan, PE
 Mr. Wallace "Lee" Jernigan, Jr., PE Ms. Jaci Kincaid
 Mr. Ken Kennedy, PE Mr. Jon Weathersbee, PE
 Mr. Malcolm Bell Mr. Reuben Blakley, PE
 Project File (2)

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 08-07-2025

DATE AND TIME OF BID OPENING: **Aug 19, 2025 AT 02:00 PM**

CONTRACT ID C205076
WBS 44369.3.3

FEDERAL-AID NO. STATE FUNDED
COUNTY CUMBERLAND, HOKE
T.I.P NO. U-5798B
MILES 0.869
ROUTE NO. SR-1102
LOCATION SR-1102 (GILLIS HILL RD) FROM SOUTH OF CELTIC DR TO NORTH OF SR-1112 (STONE POINT RD).

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

U-5798B

ST-1

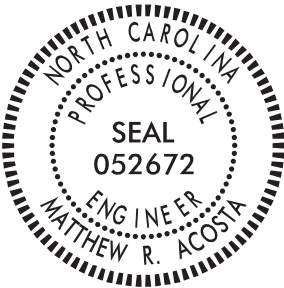
Cumberland & Hoke Counties

Project Special Provisions

Structure

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GROUT FOR STRUCTURES	(12-10-17)	ST-15



Signed by:
Matthew R. Acosta
14D2958725514F4...

8/4/2025

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEM						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0043000000-N	226	GRADING	Lump Sum	L.S.	
0004	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUBBING	1 ACR		
0005	0057000000-E	226	UNDERCUT EXCAVATION	1,000 CY		
0006	0134000000-E	240	DRAINAGE DITCH EXCAVATION	40 CY		
0007	0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	900 CY		
0008	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	800 SY		
0009	0199000000-E	SP	TEMPORARY SHORING	1,980 SF		
0010	0223000000-E	275	ROCK PLATING	500 SY		
0011	0255000000-E	SP	GENERIC GRADING ITEM CLASS IV AGGREGATE STABILIZATION	200 TON		
0012	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	580 TON		
0013	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	1,810 SY		
0014	0335200000-E	305	15" DRAINAGE PIPE	184 LF		
0015	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	2,532 LF		
0016	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	1,132 LF		
0017	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	320 LF		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	76 LF		
0019	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	32 LF		
0020	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	168 LF		
0021	0449000000-E	310	*** RC PIPE CULVERTS, CLASS V (15")	652 LF		
0022	0449000000-E	310	*** RC PIPE CULVERTS, CLASS V (24")	96 LF		
0023	0449000000-E	310	*** RC PIPE CULVERTS, CLASS V (30")	76 LF		
0024	0449000000-E	310	*** RC PIPE CULVERTS, CLASS V (42")	160 LF		
0025	0995000000-E	340	PIPE REMOVAL	582 LF		
0026	1099500000-E	505	SHALLOW UNDERCUT	3,500 CY		
0027	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	7,940 TON		
0028	1112000000-E	505	GEOTEXTILE FOR SUBGRADE STABILIZATION	12,450 SY		
0029	1121000000-E	520	AGGREGATE BASE COURSE	270 TON		
0030	1220000000-E	545	INCIDENTAL STONE BASE	200 TON		
0031	1275000000-E	600	PRIME COAT	256 GAL		
0032	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (3")	12,790 SY		
0033	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 3")	780 SY		
0034	1330000000-E	607	INCIDENTAL MILLING	1,000 SY		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	9,600 TON		
0036	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	8,100 TON		
0037	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	3,000 TON		
0038	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	5,300 TON		
0039	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	1,340 TON		
0040	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	245 TON		
0041	2022000000-E	815	SUBDRAIN EXCAVATION	650 CY		
0042	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	2,900 SY		
0043	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	487 CY		
0044	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	2,900 LF		
0045	2070000000-N	815	SUBDRAIN PIPE OUTLET	6 EA		
0046	2077000000-E	815	6" OUTLET PIPE	36 LF		
0047	2209000000-E	838	ENDWALLS	14 CY		
0048	2253000000-E	840	PIPE COLLARS	0.66 CY		
0049	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	60 EA		
0050	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	6.4 LF		
0051	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	5 EA		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	1 EA		
0053	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	18 EA		
0054	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	5 EA		
0055	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	19 EA		
0056	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	9 EA		
0057	2396000000-N	840	FRAME WITH COVER, STD 840.54	2 EA		
0058	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	2 EA		
0059	2538000000-E	846	***-*** CONCRETE CURB & GUTTER (2'-9")	2,570 LF		
0060	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	4,300 LF		
0061	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	9,150 LF		
0062	2580000000-E	846	CONCRETE VALLEY GUTTER	580 LF		
0063	2591000000-E	848	4" CONCRETE SIDEWALK	4,900 SY		
0064	2605000000-N	848	CONCRETE CURB RAMPS	6 EA		
0065	2612000000-E	848	6" CONCRETE DRIVEWAY	880 SY		
0066	2619000000-E	850	4" CONCRETE PAVED DITCH	130 SY		
0067	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	340 SY		
0068	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	270 LF		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0069	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	1 EA		
0070	3030000000-E	862	STEEL BEAM GUARDRAIL	525 LF		
0071	3045000000-E	862	STEEL BEAM GUARDRAIL, SHOP CURVED	50 LF		
0072	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		
0073	3195000000-N	862	GUARDRAIL END UNITS, TYPE AT-1	1 EA		
0074	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	3 EA		
0075	3287000000-N	862	GUARDRAIL END UNITS, TYPE TL-3	3 EA		
0076	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	1 EA		
0077	3628000000-E	876	RIP RAP, CLASS I	520 TON		
0078	3649000000-E	876	RIP RAP, CLASS B	349 TON		
0079	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	2,165 SY		
0080	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	240 LF		
0081	4102000000-N	904	SIGN ERECTION, TYPE E	24 EA		
0082	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	6 EA		
0083	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	20 EA		
0084	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	4 EA		
0085	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	184 SF		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0086	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	296 SF		
0087	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	46 SF		
0088	4415000000-N	1115	FLASHING ARROW BOARD	2 EA		
0089	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2 EA		
0090	4430000000-N	1130	DRUMS	190 EA		
0091	4445000000-E	1145	BARRICADES (TYPE III)	88 LF		
0092	4455000000-N	1150	FLAGGER	656 DAY		
0093	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2 EA		
0094	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	4 EA		
0095	4480000000-N	1165	TMA	2 EA		
0096	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	387 LF		
0097	4505000000-E	1170	REMOVE & RESET PORTABLE CONCRETE BARRIER (ANCHORED)	676 LF		
0098	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,235 EA		
0099	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	31,799 LF		
0100	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	615 LF		
0101	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	1,139 LF		
0102	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	67 EA		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0103	4726110000-E	1205	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	29 EA		
0104	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	160,094 LF		
0105	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	5,466 LF		
0106	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	856 LF		
0107	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	176 EA		
0108	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	103,113 LF		
0109	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	3,120 LF		
0110	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	409 LF		
0111	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	80 EA		
0112	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	689 EA		
0113	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0114	5325200000-E	1510	2" WATER LINE	131 LF		
0115	5325800000-E	1510	8" WATER LINE	3,111 LF		
0116	5326200000-E	1510	12" WATER LINE	858 LF		
0117	5326600000-E	1510	16" WATER LINE	5,672 LF		
0118	5327000000-E	1510	20" WATER LINE	262 LF		
0119	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	24,628 LB		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0120	5536000000-E	1515	2" VALVE	1 EA		
0121	5540000000-E	1515	6" VALVE	13 EA		
0122	5546000000-E	1515	8" VALVE	9 EA		
0123	5558000000-E	1515	12" VALVE	2 EA		
0124	5558600000-E	1515	16" VALVE	7 EA		
0125	5571000000-E	1515	*** TAPPING SLEEVE & VALVE (2")	1 EA		
0126	5571800000-E	1515	8" TAPPING SLEEVE & VALVE	1 EA		
0127	5572600000-E	1515	16" TAPPING SLEEVE & VALVE	1 EA		
0128	5590000000-E	1515	*** COMBINATION AIR VALVE (2")	3 EA		
0129	5648000000-N	1515	RELOCATE WATER METER	2 EA		
0130	5666000000-N	1515	FIRE HYDRANT	13 EA		
0131	5672000000-N	1515	RELOCATE FIRE HYDRANT	1 EA		
0132	5673000000-E	1515	FIRE HYDRANT LEG	130 LF		
0133	5686500000-E	1515	WATER SERVICE LINE	13 LF		
0134	5691300000-E	1520	8" SANITARY GRAVITY SEWER	901 LF		
0135	5691500000-E	1520	12" SANITARY GRAVITY SEWER	233 LF		
0136	5768000000-N	1520	SANITARY SEWER CLEAN-OUT	1 EA		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0137	5768500000-E	1520	SEWER SERVICE LINE	8 LF		
0138	5775000000-E	1525	4' DIA UTILITY MANHOLE	10 EA		
0139	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	52.3 LF		
0140	5798000000-E	1530	ABANDON *** UTILITY PIPE (2")	65 LF		
0141	5801000000-E	1530	ABANDON 8" UTILITY PIPE	2,720 LF		
0142	5804000000-E	1530	ABANDON 12" UTILITY PIPE	621 LF		
0143	5810000000-E	1530	ABANDON 16" UTILITY PIPE	4,550 LF		
0144	5815500000-N	1530	REMOVE FIRE HYDRANT	6 EA		
0145	5835400000-E	1540	6" ENCASEMENT PIPE	81 LF		
0146	5835700000-E	1540	16" ENCASEMENT PIPE	34 LF		
0147	5836000000-E	1540	24" ENCASEMENT PIPE	452 LF		
0148	5836200000-E	1540	30" ENCASEMENT PIPE	78 LF		
0149	5836400000-E	1540	36" ENCASEMENT PIPE	236 LF		
0150	5872500000-E	1550	BORE AND JACK OF *** (24")	289 LF		
0151	5872500000-E	1550	BORE AND JACK OF *** (36")	121 LF		
0152	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (20")	262 LF		
0153	6000000000-E	1605	TEMPORARY SILT FENCE	14,240 LF		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0154	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	320 TON		
0155	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	930 TON		
0156	6012000000-E	1610	SEDIMENT CONTROL STONE	895 TON		
0157	6015000000-E	1615	TEMPORARY MULCHING	19 ACR		
0158	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	1,000 LB		
0159	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	4.5 TON		
0160	6024000000-E	1622	TEMPORARY SLOPE DRAINS	345 LF		
0161	6029000000-E	SP	SAFETY FENCE	1,660 LF		
0162	6030000000-E	1630	SILT EXCAVATION	1,270 CY		
0163	6036000000-E	1631	MATting FOR EROSION CONTROL	14,360 SY		
0164	6037000000-E	1629	COIR FIBER MAT	100 SY		
0165	6042000000-E	1632	1/4" HARDWARE CLOTH	2,445 LF		
0166	6070000000-N	1639	SPECIAL STILLING BASINS	4 EA		
0167	6071002000-E	1642	FLOCCULANT	1,980 LB		
0168	6071012000-E	1642	COIR FIBER WATTLE	5,900 LF		
0169	6071030000-E	1640	COIR FIBER BAFFLE	70 LF		
0170	6084000000-E	1660	SEEDING & MULCHING	15 ACR		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	6087000000-E	1660	MOWING	15 ACR		
0172	6090000000-E	1661	SEED FOR REPAIR SEEDING	200 LB		
0173	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.75 TON		
0174	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	325 LB		
0175	6108000000-E	1665	FERTILIZER TOPDRESSING	9.75 TON		
0176	6111000000-E	SP	IMPERVIOUS DIKE	500 LF		
0177	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0178	6117000000-N	1675	RESPONSE FOR EROSION CONTROL	100 EA		
0179	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	1 EA		
0180	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION CLEANOUT	360 EA		
0181	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION, TYPE 1	120 EA		
0182	6132000000-N	SP	GENERIC EROSION CONTROL ITEM PREFABRICATED CONCRETE WASHOUT	6 EA		
0183	6141000000-E	SP	GENERIC EROSION CONTROL ITEM PERMANENT SOIL REINFORCEMENT MAT, TYPE 2	50 SY		
0184	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	8 EA		
0185	7060000000-E	1705	SIGNAL CABLE	6,050 LF		
0186	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	22 EA		

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0187	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	9 EA		
0188	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	2 EA		
0189	7264000000-E	1710	MESSENGER CABLE (3/8")	990 LF		
0190	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	3 EA		
0191	7360000000-N	1720	WOOD POLE	2 EA		
0192	7372000000-N	1721	GUY ASSEMBLY	4 EA		
0193	7456100000-E	1726	LEAD-IN CABLE (14-2)	2,125 LF		
0194	7576000000-N	SP	METAL STRAIN SIGNAL POLE	2 EA		
0195	7613000000-N	SP	SOIL TEST	2 EA		
0196	7614100000-E	SP	DRILLED PIER FOUNDATION	20 CY		
0197	7630000000-N	SP	METAL STRAIN POLE DESIGN	2 EA		
0198	7636000000-N	1745	SIGN FOR SIGNALS	9 EA		
0199	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	8 EA		
0200	7980000000-N	SP	GENERIC SIGNAL ITEM 2070LX CONTROLLER	3 EA		
0201	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTION SYSTEM - MULTIPLE ZONES	8 EA		
CULVERT ITEMS						
0202	8056000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (25+46.30 -LB-)	Lump Sum	L.S.	

County: CUMBERLAND, HOKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0203	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (25+46.30 -LB-)	Lump Sum	L.S.	
0204	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	409 TON		
0205	8196000000-E	420	CLASS A CONCRETE (CULVERT)	633.5 CY		
0206	8245000000-E	425	REINFORCING STEEL (CULVERT)	97,354 LB		
WALL ITEMS						
0207	8802014000-E	SP	SOLDIER PILE RETAINING WALLS	1,600 SF		

1333/Aug05/Q628283.86/D878163168000/E207

Total Amount Of Bid For Entire Project :



SEE SHEET UC-09 AND UC-10 FOR -WL-1 PROFILE
SEE SHEET UC-10 FOR -WL-2 PROFILE
SEE SHEET UC-11 AND UC-12 FOR -WL-3 PROFILE
SEE SHEET UC-12 FOR -WL-4 PROFILE
SEE SHEET UC-12 FOR -WL-6 PROFILE

UTILITY CONSTRUCTION

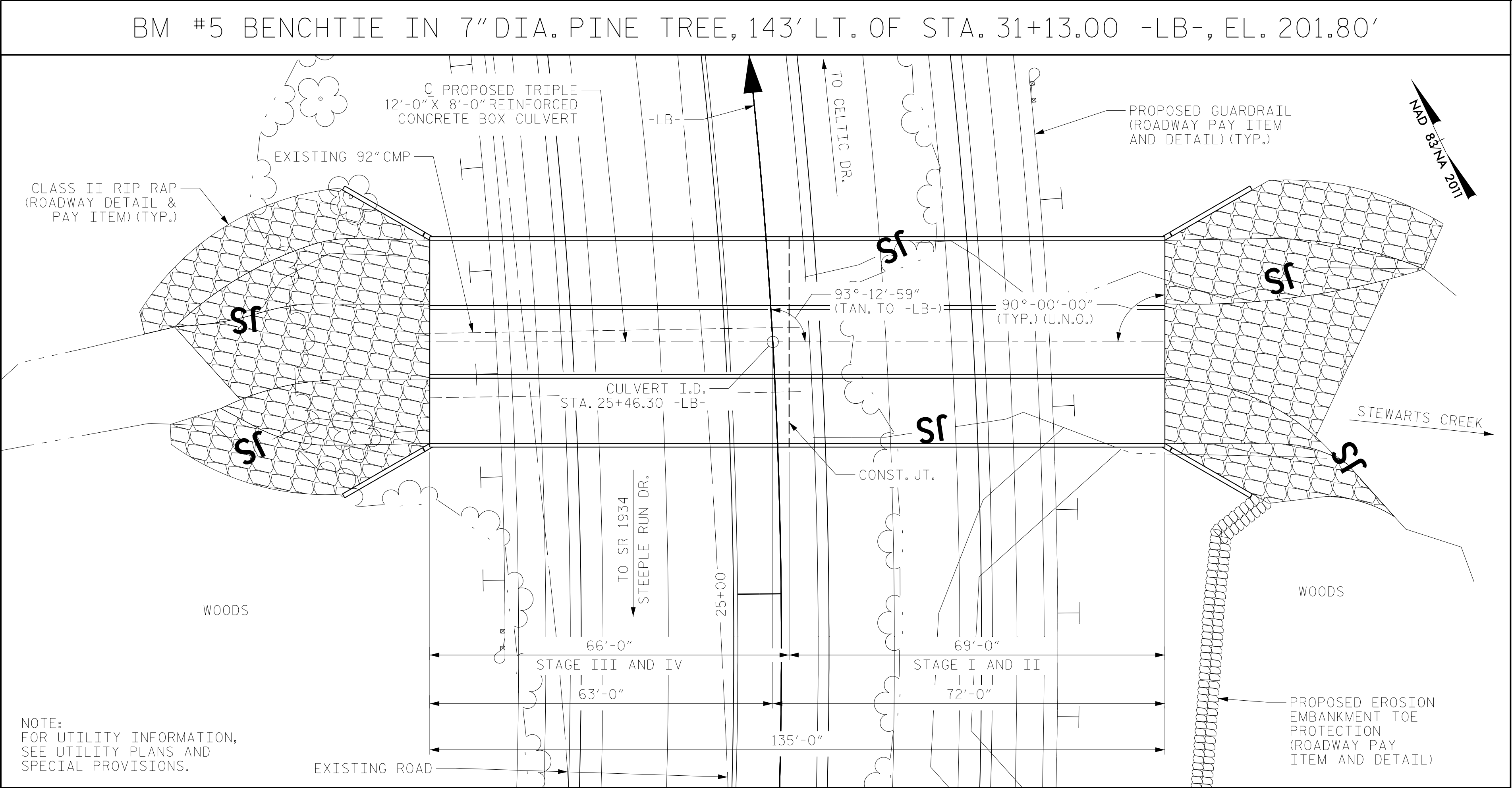
UTILITY CONSTRUCTION



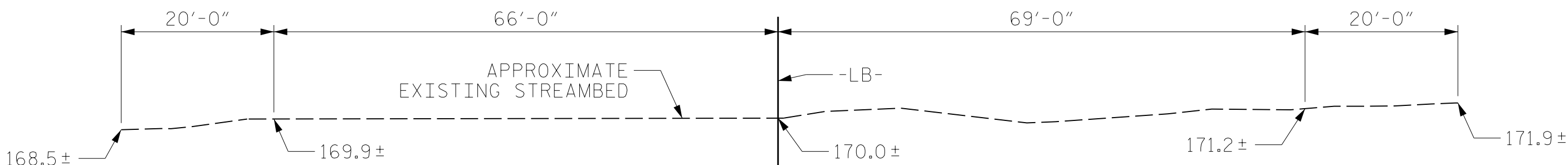
UTILITY CONSTRUCTION



NOTES:
SEE SHEET UC-11 AND UC-12 FOR -WL-3 PROFILE
SEE SHEET UC-12 FOR -WL-5 PROFILE
SEE SHEET UC-12 FOR -WL-6 PROFILE



LOCATION SKETCH



PROFILE ALONG $\mathcal{Q}$ CULVERT

HYDRAULIC DATA

DESIGN DISCHARGE	= 880 CFS
FREQUENCY OF DESIGN DISCHARGE	= 25 YRS
DESIGN HIGH WATER ELEVATION	= 180.7'
DRAINAGE AREA	= 3.78 SQ MI
BASE DISCHARGE (Q100)	= 1,000 CFS
BASE HIGH WATER ELEVATION	= 182.3'

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 950 CFS
FREQUENCY OF OVERTOPPING	= 25+ YRS
* OVERTOPPING ELEVATION	= 182.0'
* SAG @ STA. 25+13.58 -LB-	

GRADE DATA

GRADE POINT EL. @ STA. 25+46.30 -LB-	= 181.26'
CULVERT BED EL. @ STA. 25+46.30 -LB-	= 168.75'
ROADWAY SLOPES	= 3:1 MAX.

PROFILE DATA -LB-

P.I. = 26+30.00
EL. = 177.71'
VC = 460'
K = 57
G1 = -2.0000%
G2 = +6.1000%

DRAWN BY :	NSC	DATE :	12/2023
CHECKED BY :	MRA	DATE :	12/2023
DESIGN ENGINEER OF RECORD:	MRA	DATE :	03/2025

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE BARREL @ 4.38 C.Y./FT	REINFORCING STEEL	FOUNDATION CONDITIONING MATERIAL
STAGE I	STAGE I	STAGE I
CULVERT 72.8 C.Y.	CULVERT 13,526 LBS.	90 TONS
WING ETC. 8.3 C.Y.	WING ETC. 503 LBS.	STAGE II 119 TONS
TOTAL 81.1 C.Y.	TOTAL 14,029 LBS.	STAGE III 86 TONS
STAGE II	STAGE II	STAGE IV 114 TONS
CULVERT 231.8 C.Y.	CULVERT 35,186 LBS.	TOTAL 409 TONS
WING ETC. 10.4 C.Y.	WING ETC. 503 LBS.	
TOTAL 242.2 C.Y.	TOTAL 35,689 LBS.	REMOVAL OF EXISTING STRUCTURE STA. 25+46.30 -LB- LUMP SUM
STAGE III	STAGE III	CULVERT EXCAVATION STA. 25+46.30 -LB- LUMP SUM
CULVERT 69.7 C.Y.	CULVERT 12,950 LBS.	
WING ETC. 8.3 C.Y.	WING ETC. 503 LBS.	
TOTAL 78.0 C.Y.	TOTAL 13,453 LBS.	
STAGE IV	STAGE IV	
CULVERT 221.8 C.Y.	CULVERT 33,680 LBS.	
WING ETC. 10.4 C.Y.	WING ETC. 503 LBS.	
TOTAL 232.2 C.Y.	TOTAL 34,183 LBS.	
TOTAL CONCRETE 633.5 C.Y.	TOTAL STEEL 97,354 LBS.	

HORIZONTAL CURVE DATA -LB-

P.I. STA. = 27+42.62
Δ = 47°-45'-00" (LT.)
D = 05°-43'-46.5"
L = 833.39'
T = 442.62'
R = 1000.00'
SE = 0.04

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

NOTES

ASSUMED LIVE LOAD ----- HL-93 OR ALTERNATE LOADING

DESIGN FILL = 7.17' MAX. AND 2.67' MIN.

CONCRETE CULVERTS TO BE POURED IN THE FOLLOWING ORDER FOR EACH STAGE:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

3" $\varnothing$ WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH SPECIFICATIONS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FEET. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF THE EXTERIOR WALL ABOVE THE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

SEE SECTION 414 OF THE STANDARD SPECIFICATIONS FOR CULVERT EXCAVATION AND BACKFILLING.

EXCAVATE AT LEAST 1 FOOT BELOW BOTTOM OF CULVERT AND REPLACE WITH FOUNDATION CONDITIONING MATERIAL IN ACCORDANCE WITH ARTICLE 414-4 OF THE STANDARD SPECIFICATIONS.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

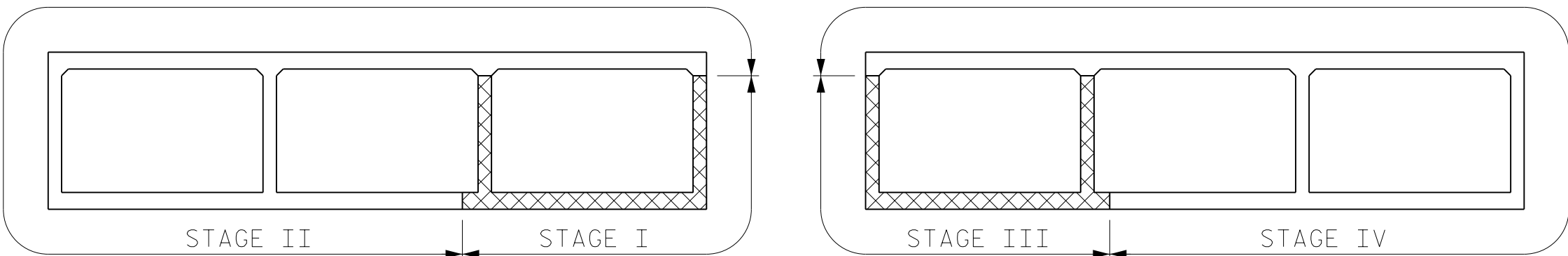
FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT OF STRUCTURES, SEE SPECIAL PROVISIONS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.



CONSTRUCTION SEQUENCE

(SECTION LOOKING DOWNSTREAM)

- ☒ STAGE I CONSTRUCTION
- ☐ STAGE II CONSTRUCTION

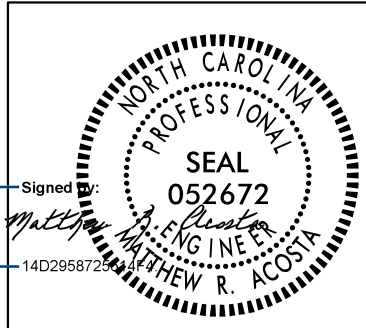
CONSTRUCTION SEQUENCE

(SECTION LOOKING DOWNSTREAM)

- ☒ STAGE III CONSTRUCTION
- ☐ STAGE IV CONSTRUCTION

PROJECT NO. U-5798B
CUMBERLAND COUNTY
STATION: 25+46.30 -LB-

SHEET 1 OF 8



RS&H

RS&H Architects-Engineers-Planners, Inc.

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
TRIPLE 12'-0" X 8'-0"
CONCRETE BOX CULVERT
FOR STEWARTS CREEK ON
SR 1102 AND SR 1420 BETWEEN
SR 1934 AND CELTIC DR.
90° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-1
1			3			TOTAL SHEETS
2			4			8