



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

March 25, 2020

**To: Prospective Bidders**

**From: Jonathan W. Mitchell**  
**Division Contracts and Proposals Engineer**

DocuSigned by:  
*Jonathan W Mitchell*  
02B404268BC84C2...

**Contract ID#: DC00277**

**TIP: U-5710A**

**WBS Element: 50115.3.2**

**Subject: Addendum #1: Drysdale Drive Extension –  
GRADING, PAVING, DRAINAGE AND SIGNALS.**

The Subject contract proposal contains the following addendum:

- 1- Replace the Itemized Proposal for Contract # DC00277 (Bid Form) with the attached Bid Form. Line item #194 has been added and other quantities have been adjusted.
- 2- Replace the Drainage Summary Sheets 3D-1 thru 3D-3 with the attached. Quantities have been adjusted.

**\*\*\*An Addendum has been added to Bid Express.**

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
5501 BARBADOS BOULEVARD  
CASTLE HAYNE, NC 28429-5647

*Telephone:* (910) 341-2000  
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*Location:*  
5501 BARBADOS BOULEVARD  
CASTLE HAYNE, NC 28429-5647

County : New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S) MODIFIED METHOD III	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	4,500 CY		
0006	0036000000-E	225	UNDERCUT EXCAVATION	1,100 CY		
0007	0106000000-E	230	BORROW EXCAVATION	5,500 CY		
0008	0134000000-E	240	DRAINAGE DITCH EXCAVATION	510 CY		
0009	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	250 SY		
0010	0195000000-E	265	SELECT GRANULAR MATERIAL	950 CY		
0011	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	1,300 SY		
0012	0234000000-E	SP	GENERIC GRADING ITEM STORMWATER POND GRADING	910 CY		
0013	0257000000-E	SP	GENERIC GRADING ITEM SHOULDER CLEANUP	950 LF		
0014	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	260 TON		
0015	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	810 SY		
0016	0335200000-E	305	15" DRAINAGE PIPE	40 LF		
0017	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV 60"	376 LF		
0018	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	968 LF		

County : New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	432 LF		
0020	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	584 LF		
0021	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	28 LF		
0022	0995000000-E	340	PIPE REMOVAL	439 LF		
0023	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0024	1099500000-E	505	SHALLOW UNDERCUT	100 CY		
0025	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	190 TON		
0026	1121000000-E	520	AGGREGATE BASE COURSE	6,800 TON		
0027	1220000000-E	545	INCIDENTAL STONE BASE	100 TON		
0028	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** 0" TO 1.5"	250 SY		
0029	1330000000-E	607	INCIDENTAL MILLING	1,260 SY		
0030	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	120 TON		
0031	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3,790 TON		
0032	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2,890 TON		
0033	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	385 TON		
0034	2000000000-N	806	RIGHT-OF-WAY MARKERS	35 EA		
0035	2022000000-E	815	SUBDRAIN EXCAVATION	739.2 CY		
0036	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	3,300 SY		
0037	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	554.4 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0038	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	3,300 LF		
0039	2070000000-N	815	SUBDRAIN PIPE OUTLET	7 EA		
0040	2077000000-E	815	6" OUTLET PIPE	42 LF		
0041	2220000000-E	838	REINFORCED ENDWALLS	11.8 CY		
0042	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	32 EA		
0043	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	7 LF		
0044	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** E	6 EA		
0045	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** F	9 EA		
0046	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** G	12 EA		
0047	2396000000-N	840	FRAME WITH COVER, STD 840.54	11 EA		
0048	2440000000-N	852	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN	4 EA		
0049	2473000000-N	SP	GENERIC DRAINAGE ITEM DRAWDOWN STRUCTURE	1 EA		
0050	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	1,730 LF		
0051	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	3,050 LF		
0052	2591000000-E	848	4" CONCRETE SIDEWALK	860 SY		
0053	2600000000-N	848	RETROFIT EXISTING CURB RAMPS	1 EA		
0054	2605000000-N	848	CONCRETE CURB RAMPS	11 EA		
0055	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	160 SY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0056	2738000000-E	SP	GENERIC PAVING ITEM OYSTER SHELL 6" CONC. DRIVEWAY	70 SY		
0057	2752000000-E	SP	GENERIC PAVING ITEM OYSTER SHELL SPECIAL VALLEY GU TTER	540 LF		
0058	2893000000-N	859	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE	1 EA		
0059	3524000000-E	SP	VINYL COATED CHAIN LINK FENCE, *** FABRIC BLACK VINYL COATED CHAIN LINK FENCE 48" FABRIC	110 LF		
0060	3578000000-N	SP	GENERIC FENCING ITEM BLACK VINYL COATED METAL GATE POSTS FOR 48" CHAIN LINK FENCE, SING LE GATE	4 EA		
0061	3578000000-N	SP	GENERIC FENCING ITEM BLACK VINYL COATED METAL LINE POSTS FOR 48" CHAIN LINK FENCE	5 EA		
0062	3578000000-N	SP	GENERIC FENCING ITEM BLACK VINYL COATED METAL TERMI NAL POSTS FOR 48" CHAIN LINK FENCE	10 EA		
0063	3578000000-N	SP	GENERIC FENCING ITEM BLACK VINYL COATED SINGLE GATE S 48" HIGH, 10' WIDE, 10' OPENIN G	2 EA		
0064	3628000000-E	876	RIP RAP, CLASS I	85 TON		
0065	3649000000-E	876	RIP RAP, CLASS B	10 TON		
0066	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	750 SY		
0067	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN E	111 SF		
0068	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN F	37 SF		
0069	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	355 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0070	4102000000-N	904	SIGN ERECTION, TYPE E	17 EA		
0071	4108000000-N	904	SIGN ERECTION, TYPE F	4 EA		
0072	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	1 EA		
0073	4360000000-N	SP	GENERIC SIGNING ITEM VERTICAL PANEL TYPE 3 OBJECT M ARKER -OM3-L	2 EA		
0074	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	130 SF		
0075	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	192 SF		
0076	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	96 SF		
0077	4415000000-N	1115	FLASHING ARROW BOARD	2 EA		
0078	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2 EA		
0079	4430000000-N	1130	DRUMS	65 EA		
0080	4435000000-N	1135	CONES	45 EA		
0081	4445000000-E	1145	BARRICADES (TYPE III)	660 LF		
0082	4447000000-E	SP	PEDESTRIAN CHANNELIZING DE- VICES	50 LF		
0083	4455000000-N	1150	FLAGGER	10 DAY		
0084	4480000000-N	1165	TMA	2 EA		
0085	4510000000-N	1190	LAW ENFORCEMENT	32 HR		
0086	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	305 EA		
0087	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	9,336 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0088	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	4,932 LF		
0089	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	404 LF		
0090	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	24 EA		
0091	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	77 EA		
0092	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	17,819 LF		
0093	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	9,912 LF		
0094	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	616 LF		
0095	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	2,694 LF		
0096	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	48 EA		
0097	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	140 EA		
0098	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	2,796 LF		
0099	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	46 LF		
0100	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	173 LF		
0101	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	11 EA		
0102	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM LONGITUDINAL CHANNELIZING CURB SYSTEM	1,375 LF		
0103	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC (24", 90 MILS)	1,371 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0104	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	286	EA	
0105	5325600000-E	1510	6" WATER LINE	18	LF	
0106	5325800000-E	1510	8" WATER LINE	195	LF	
0107	5326200000-E	1510	12" WATER LINE	12	LF	
0108	5326600000-E	1510	16" WATER LINE	1,244	LF	
0109	5327400000-E	1510	24" WATER LINE	181	LF	
0110	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	15,905	LB	
0111	5540000000-E	1515	6" VALVE	4	EA	
0112	5546000000-E	1515	8" VALVE	1	EA	
0113	5558000000-E	1515	12" VALVE	3	EA	
0114	5558600000-E	1515	16" VALVE	3	EA	
0115	5559400000-E	1515	24" VALVE	2	EA	
0116	5606000000-E	1515	2" BLOW OFF	3	EA	
0117	5672000000-N	1515	RELOCATE FIRE HYDRANT	1	EA	
0118	5678600000-E	1515	8" LINE STOP	2	EA	
0119	5679000000-E	1515	12" LINE STOP	1	EA	
0120	5775000000-E	1525	4' DIA UTILITY MANHOLE	1	EA	
0121	5801000000-E	1530	ABANDON 8" UTILITY PIPE	103	LF	
0122	5804000000-E	1530	ABANDON 12" UTILITY PIPE	523	LF	
0123	5813000000-E	1530	ABANDON 24" UTILITY PIPE	177	LF	



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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0124	6000000000-E	1605	TEMPORARY SILT FENCE	5,290	LF	
0125	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	190	TON	
0126	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	125	TON	
0127	6012000000-E	1610	SEDIMENT CONTROL STONE	330	TON	
0128	6015000000-E	1615	TEMPORARY MULCHING	10	ACR	
0129	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	600	LB	
0130	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	3	TON	
0131	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200	LF	
0132	6029000000-E	SP	SAFETY FENCE	840	LF	
0133	6030000000-E	1630	SILT EXCAVATION	120	CY	
0134	6036000000-E	1631	MATTING FOR EROSION CONTROL	2,600	SY	
0135	6037000000-E	SP	COIR FIBER MAT	100	SY	
0136	6042000000-E	1632	1/4" HARDWARE CLOTH	760	LF	
0137	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	25	LF	
0138	6070000000-N	1639	SPECIAL STILLING BASINS	2	EA	
0139	6071012000-E	SP	COIR FIBER WATTLE	390	LF	
0140	6071020000-E	SP	POLYACRYLAMIDE (PAM)	10	LB	
0141	6071030000-E	1640	COIR FIBER BAFFLE	20	LF	
0142	6084000000-E	1660	SEEDING & MULCHING	10	ACR	
0143	6087000000-E	1660	MOWING	6	ACR	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0144	6090000000-E	1661	SEED FOR REPAIR SEEDING	100	LB	
0145	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25	TON	
0146	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	200	LB	
0147	6108000000-E	1665	FERTILIZER TOPDRESSING	6	TON	
0148	6111000000-E	SP	IMPERVIOUS DIKE	80	LF	
0149	6114500000-N	1667	SPECIALIZED HAND MOWING	10	MHR	
0150	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	13	EA	
0151	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2	EA	
0152	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	6	EA	
0153	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	18	EA	
0154	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	12	EA	
0155	7060000000-E	1705	SIGNAL CABLE	8,280	LF	
0156	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	30	EA	
0157	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	5	EA	
0158	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	1	EA	
0159	7264000000-E	1710	MESSENGER CABLE (3/8")	1,020	LF	
0160	7279000000-E	1715	TRACER WIRE	1,010	LF	
0161	7300000000-E	1715	UNPAVED TRENCHING (***** 2 CONDUITS, 2 INCH	2,015	LF	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0162	7301000000-E	1715	DIRECTIONAL DRILL (*****) 2 CONDUITS, 2 INCH	775 LF		
0163	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	30 EA		
0164	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	10 EA		
0165	7360000000-N	1720	WOOD POLE	2 EA		
0166	7372000000-N	1721	GUY ASSEMBLY	4 EA		
0167	7420000000-E	1722	2" RISER WITH WEATHERHEAD	2 EA		
0168	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	3,380 LF		
0169	7456000000-E	1726	LEAD-IN CABLE (*****) 14-2 PAIR	10,290 LF		
0170	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) 12 FIBER	600 LF		
0171	7540000000-N	1731	SPLICE ENCLOSURE	3 EA		
0172	7564000000-N	1732	FIBER-OPTIC TRANSCEIVER, DROP & REPEAT	3 EA		
0173	7576000000-N	SP	METAL STRAIN SIGNAL POLE	6 EA		
0174	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	4 EA		
0175	7613000000-N	SP	SOIL TEST	10 EA		
0176	7614100000-E	SP	DRILLED PIER FOUNDATION	40 CY		
0177	7630000000-N	SP	METAL STRAIN POLE DESIGN	6 EA		
0178	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	4 EA		
0179	7636000000-N	1745	SIGN FOR SIGNALS	1 EA		
0180	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	12 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0181	7684000000-N	1750	SIGNAL CABINET FOUNDATION	3 EA		
0182	7720000000-N	1751	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)	3 EA		
0183	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	32 EA		
0184	7901000000-N	1753	CABINET BASE EXTENDER	3 EA		
0185	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	4 EA		
0186	7972000000-N	SP	METAL POLE REMOVAL	4 EA		
0187	7980000000-N	SP	GENERIC SIGNAL ITEM DROP CABLE ASSEMBLY (6 FIBER)	3 EA		
0188	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTION SY STEM - MULTIPLE ZONES	1 EA		
0189	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR SIGNAL PEDESTAL (BLACK)	12 EA		
0190	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR SINGLE MAST ARM POLE (BLACK)	4 EA		
0191	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR STRAIN POLE (BLACK)	6 EA		
0192	7990000000-E	SP	GENERIC SIGNAL ITEM BACK PULL FIBER OPTIC CABLE	740 LF		
0193	8847000000-E	SP	GENERIC RETAINING WALL ITEM AVG. HT. 8.71' TO 9.03' SHEET PILE RETAINING WALL	1,960 SF		
0194	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	28.119 CY		

RAJ-ZT08/03/06/01

COMPUTED BY: KMS DATE: 3/06/2020
CHECKED BY: JJM DATE: 3/06/2020

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.
U-5710A 3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Main data table with columns for Line & Station, Structure Number, Pipe Size, Invert Elevation, Slope, R.C. Pipe Class, Quantities, Frame/Grate, and Remarks. Includes a 'SHEET TOTALS' row at the bottom.

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

COMPUTED BY: KMS DATE: 3/23/2020
CHECKED BY: JJM DATE: 3/23/2020

PROJECT NO. SHEET NO.
U-5710A 3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, SIZE, THICKNESS OR GAUGE, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, ENDWALLS, REINFORCED ENDWALLS, DRAINAGE STRUCTURE, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, ADJUST C.B., ADJUST D.I., FLOWABLE FILL, CONCRETE COLLARS, PIPE REMOVAL, and REMARKS.

SHEET TOTALS
PROJECT TOTALS

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

RAL-ZT09/103/W

COMPUTED BY: KMS DATE: 3/06/2020
CHECKED BY: JJM DATE: 3/06/2020

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. U-5710A SHEET NO. 3D-3

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

Table with multiple columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, ENDWALLS, REINFORCED ENDWALLS, MASONRY, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes sub-headers for DO NOT USE RCP, CSP, CAAP, PVC, and various grate types.

Summary table with rows for SHEET TOTALS and PROJECT TOTALS, listing quantities for various pipe and grate types.

ABBREVIATIONS table listing codes such as C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., and W.S. with their corresponding material descriptions.