COMPUTED BY: KBA DATE: 11-28-16
CHECKED BY: KBA DATE: 11-28-16

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.130	3D-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
THICKNESS OR GAUGE																			
-L- 13+20	RT	0401	0406		2088.05	2087.63				20									
-L- 13+25	RT				2089.10	2088.70				20									
-L- 13+35	RT	0406		2089.80	2087.63														
-L- 13+70	RT	0406	0407		2087.63	2086.00				36									
-L- 14+40	LT	0402																	
-L- 15+02	RT	0403		2091.83	2087.43														
-L- 14+82	RT	0403	0404		2087.43	2086.70				44									
-L- 14+63	RT	0404		2089.20	2086.70														
-L- 14+25	RT	0404	0405		2086.70	2086.40				72									
TOTAL										192									

STATION	C.S. PIPE SIZE 12"	15"	18"	24"	36"	42"	48"	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"
THICKNESS OR GAUGE	.064	.064	.064	.064	.079	.109	.109															
-L- 13+20																						
-L- 13+25																						
-L- 13+35																						
-L- 13+70																						
-L- 14+40																						
-L- 15+02																						
-L- 14+82																						
-L- 14+63																						
-L- 14+25																						
TOTAL																						

STATION	R.C. PIPE (CLASS V)	R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	MODIFIED CONCRETE FLUME	J.B. STD. 840.31 OR 840.32	M.H. FRAME & COVER STD. 840.54	T.B.J.B. STD. 840.34	FLOWABLE FILL C.Y.	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L- 13+20																										20	REMOVE EX. 18" CMP
-L- 13+25																											TEMP. 18" PIPE AT STA. 13+25 RT (SEE EC PLANS)
-L- 13+35								1							1	1											
-L- 13+70																											
-L- 14+40								1									1										FILL EX. 18" CMP WITH FLOWABLE FILL
-L- 15+02																			1	1	2.5						
-L- 14+82																											
-L- 14+63								1							1	1											
-L- 14+25																											
TOTAL								3							2	2	1		1	1	2.5					20	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

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