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USRAL3LT17006

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PROJECT NO.	SHEET NO.
R-3825B	3D-18

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)

Header rows: LINE & STATION / SIZE / THICKNESS OR GAUGE

LINE & STATION	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 135+57	36	LT						
L 135+57	36	RT						
L 156+49	72	RT						
L 156+13	64	LT						
L 107+40	0	CL						
L 107+22	32	LT						
L 107+58	31	RT						
L 128+45	7	RT						
L 128+44	43	LT						
L 128+46	57	RT						
L 242+22	0	CL						
L 242+18	56	LT						
L 242+26	57	RT						
L 27+23	57	RT						
L 27+20	14	LT						
L 27+23	52	RT						
L 27+21	19	RT						
L 18+42	78	RT						
L 19+42	54	RT						
L 21+71	58	RT						
L 20+40	68	RT						
L 23+56	69	RT						
L 32+46	23	RT						
L 32+46	43	RT						
L 32+46	2	LT						
L 222+17	39	RT						
L 231+08	28	RT						

Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)

	15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
SHEET TOTALS											
PROJECT TOTALS	6760	2892	1956	1052	12	504					

C. S. PIPE and R. C. PIPE CLASS IV

	C.S. 15 (.064)	C.S. 18 (.064)	C.S. 24 (.064)	C.S. 30 (.079)	R.C. 15	R.C. 18	R.C. 24	R.C. 30	R.C. 36	R.C. 42	R.C. 48
SHEET TOTALS											
PROJECT TOTALS	930	56	400	124	7944	1740	1588	216	180	416	104

WELDED STEEL PIPE GRADE B 0.5" THICK

	15 IN SOIL	18 IN SOIL	24 IN SOIL	30 IN SOIL	36 IN SOIL	42 IN SOIL	48 IN SOIL	15 NOT IN SOIL	18 NOT IN SOIL	24 NOT IN SOIL	30 NOT IN SOIL	36 NOT IN SOIL	42 NOT IN SOIL	48 NOT IN SOIL
SHEET TOTALS														
PROJECT TOTALS	38	222	134	264	204	284	36	38	222	134	264	204	284	36

	15" TEMPORARY PIPE	18" TEMPORARY PIPE	24" TEMPORARY PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02
SHEET TOTALS										
PROJECT TOTALS				41.200			283	81.2		100

FRAME, GRATES, AND HOOD STD. 840.03 — GRATE TYPE; CONCRETE TRANSITIONAL SECTION

	E	F	G		D.I. STD. 852.04 OR STD. 852.06 OR DETAIL SHEET 2C-2	C.B. STD. 852.05
SHEET TOTALS						
PROJECT TOTALS	23	40	37		29	2

	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	TEMP STEEL PLATE COVER PSH 2C-8
SHEET TOTALS												
PROJECT TOTALS	17	17	25	97	10	1	64	83	14	4	14	15

	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. SPECIAL DETAIL PSH 2C-6	15" PIPE END SECTION	18" CROSS PIPE END SECTION	ADJUST C.B.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	24" DRAINAGE PIPE ELBOW	15" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)
SHEET TOTALS											
PROJECT TOTALS	13	1	4	1	5	22	6	1	1	14	1

LINE & STATION	OFFSET		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 135+57	36	LT				
L 135+57	36	RT				
L 156+49	72	RT				
L 156+13	64	LT				
L 107+40	0	CL	36			
L 107+22	32	LT				
L 107+58	31	RT				
L 128+45	7	RT	12			
L 128+44	43	LT				
L 128+46	57	RT				
L 242+22	0	CL	82			
L 242+18	56	LT				
L 242+26	57	RT				
L 27+23	57	RT			10	
L 27+20	14	LT				
L 27+23	52	RT				
L 27+21	19	RT	12			
L 18+42	78	RT			48	
L 19+42	54	RT			193	
L 21+71	58	RT			258	
L 20+40	68	RT			25	
L 23+56	69	RT			104	
L 32+46	23	RT	3			
L 32+46	43	RT				
L 32+46	2	LT				
L 222+17	39	RT			2	
L 231+08	28	RT			20	
SHEET TOTALS			145		660	
PROJECT TOTALS			372	8.6771	5702	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM 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

QUANTITIES FOR DRAINAGE STRUCTURES
A = 76.8 LF; B = 3.4 LF
TOTAL = A + (1.3 x B) = 76.8 + (1.3 x 3.4) = 81.2 LF