RD266428

COMPUTED BY: GSBLELL DATE: 3/29/2012

CHECKED BY: AJFOSTER DATE: 4/16/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-24

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)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
SUMMARY																			
3D-1									304		28	20							
3D-2									308	288	100	200	24						
3D-3									376	400									
3D-4									356	796	184	80	8		20				
3D-5									1,368		260	296	52						
3D-6									480	208	202	152							
3D-7									1,458	180			52						
3D-8									1,024	292		88	8						
3D-9									344		456		544						
3D-10									1,032	168	332	200							
3D-11									784	84		132			132				
3D-12									308		536	632							
3D-13									828	184	60								
3D-14									420		784	40	56						
3D-15								14	324	364		568							
3D-16									636		236	104							
3D-17									1,160		12	20		42					
3D-18									476	816			108						
3D-19									536		556	172							
3D-20									168		212	16							
3D-21									668	252	292	20							
3D-22									3,864			8							
3D-23									3,140										
3D-25																			
GRAND TOTALS								14	20,362	4,032	4,250	2,748	852	42	152				

STATION	C.S. PIPE 12" (.064)	15" (.064)	18" (.064)	24" (.064)	30" (.079)	36" (.079)	42" (.109)	48" (.109)	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"
3D-1		300	76								136							604	288	304				
3D-2		154	12			52				156		168		112				296			120			52
3D-3		96	308	24						376	496	24				224		516	96					
3D-4		276				32				30		340		108				1,008	64			136		
3D-5		80	144	36		48				24			104	212				520	68					
3D-6		44	172	52	96					168	104							972						
3D-7			28			44					88							1,116		112		100		
3D-8		48	172	24	20						352	216		124				432						
3D-9		84	132	36	28									156	584			388						
3D-10		244	36															516			96			
3D-11		350			308							140						260			116			
3D-12		316				188				136								536	88	328				
3D-13		148	72	80						360	116	100						604						
3D-14		568			268						56							380						
3D-15		184		168	52	28				44		132						376		168				
3D-16		128	24		36							122						204			88			
3D-17		24	44	156						292	212							356		84				
3D-18		124	132	172								56			164			368						
3D-19			64	212	84	40				64		104	124					368	52		96			
3D-20	134	116		280						48		96						524		48				
3D-21	102	132		352								196						68		52				
3D-22		212			132																			
3D-23																								
3D-25																								
GRAND TOTALS	236	3,628	1,416	1,592	1,024	432				1,698	1,560	1,694	228	712	748	224		10,412	656	1,096	516	236		52

STATION	36" R.C. PIPE (CLASS V)	42" R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02
3D-1									25	1.44		4
3D-2						200	9.400		24	38.57	24.55	5
3D-3									20	13.26		4
3D-4									28	6.31		4
3D-5							3.400		29	19.04		2
3D-6							2.300		27	10.70		2
3D-7									25	5.41		5
3D-8									25	12.52		4
3D-9							3.602		25	23.55	3.70	4
3D-10									26	5.20		4
3D-11									25	11.85	2.63	3
3D-12									27	19.00	2.07	5
3D-13									26	7.92		6
3D-14									25	8.76		5
3D-15							2.800		24	2.85		8
3D-16			116				2.732		22	0.25		3
3D-17									27	15.06	11.31	4
3D-18			116		144		4.500		26	25.85	27.19	3
3D-19							1.512		19	25.11	3.80	6
3D-20									23	17.94	2.98	5
3D-21									23	19.13	12.50	2
3D-22									5			
3D-23												
3D-25												
GRAND TOTALS			232		144	200	30.246		526	289.72	90.73	88

STATION	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M. H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24
3D-1		1	3		4			4	13			10	7			2	1	2	1			1	
3D-2	2	2	1	2	5	2	2	2	8	1		7	4			1		4	1		104	4	
3D-3		2	2	1	4	1	1	1	8			9	2	2		2	2	3	1		27	1	1
3D-4	1	1	2	1	4	1	1	5	12			14	3			3			3		22		
3D-5		2			2	1	1	8	11	1		15	5			6	2	6			89		
3D-6		2		2		2	2	3	12			9	6			7		4	1		99		
3D-7		2	3	1	4	1	1	2	12	2		12	4			1	1	1	2		5		
3D-8		2	2		4			4	10	1		13	2			5		4	1		40		
3D-9		4			4			9	6			14	1			4	1	5	1		34	1	
3D-10		1	3	2		3	3	6	6	1		10	3			3		3	3		71		
3D-11		3						1	10	1		7	5			5		4	4	1	12	1	
3D-12		5		3		3	3		14			8	6			3	2	4	1		18	1	
3D-13		3	3	1		1	1		15	1		12	4			1	3	1	2		35		
3D-14		2	3	1		1	1	3	14			14	4	1					1		7		
3D-15		5	3		3				12	1	1	7	6			2		2			97		
3D-16		1	2	2	3	2	2		11	1		10	2		1	4		3		1	77		
3D-17		4		2		2	2	1	11	1		11	4	2		5		5		1	17	1	
3D-18		3		1	3	2	2	2	13			10	5			3		5			106	3	
3D-19		3	3					3	8			11				2	1	1			49		
3D-20		5						3	7		2	7	3			4	1	3	2		39		
3D-21			2		2				15		1	15				4		5			104	1	
3D-22									4			1	3						1		3		
3D-23																							
3D-25																							
GRAND TOTALS	3	53	32	19	42	22	22	57	232	11	4	226	79	5	1	67	14	65	25	3	1,055	14	1

STATION	CS PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
3D-1	6@15"			443	
3D-2	2@18"			317	
3D-3	4@15"			148	
3D-4	4@15" 2@36"			362	
3D-5	2@24" 2@36"		0.446	336	
3D-6	2@24" 4@30"			197	
3D-7	2@18"			228	
3D-8	2@15"4@18"2@24"			391	
3D-9	2@15"4@24"2@30"	0.182		488	
3D-10	10@15"2@18"			382	
3D-11	10@15",6@30"			456	
3D-12	10@15"2@30"2@36"			209	
3D-13	6@15"2@24"			140	
3D-14	6@15",2@30"			80	
3D-15	2@24",2@36"			202	
3D-16	6@15",2@18"	0.116	0.656	293	
3D-17	2@15", 2@24"			87	
3D-18	2@15", 2@18"			220	
3D-19	2@18",2@24",2@36"			85	
3D-20	4@15",6@24"			60	
3D-21	2@15",10@24"			655	
3D-22	6@15"			3,864	
3D-23				3,140	
3D-25			5.158		
GRAND TOTALS	82@15"16@18"34@24" 16@30"10@36"	0.298	6.260'	12,783	

13 15" PIPE END SECTION

1 18" PIPE END SECTION

ABBREVIATIONS

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