R02/61645

COMPUTED BY: Ray Lovinggood DATE: 01/9/15

CHECKED BY: Piotr Stojda DATE: 01/13/15

PROJECT NO.	SHEET NO.
U-3338B	3D-19

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)

LINE & STATION	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE	12	15	18	24	30	36	42	48
									THICKNESS OR GAUGE								
L 71+39	25	RT															
L 75+17	2	RT															
L 82+56	23	RT															
Y6 16+72	70	LT															
DR1 12+17	21	RT															
Y15 13+32	32	RT															
Y15 14+32	27	LT															
DR1 11+79	8	LT															
DR1 11+76	7	RT															
DR1 11+00	7	LT															
Y7A 13+34	9	RT															
L 73+09	27	LT															
L 74+05	29	LT															
L 79+12	30	LT															
L 81+93	24	RT															
Y6 24+65	43	RT															
L 58+67	1008	RT															
L 58+94	1007	RT															
L 40+37	26	LT															
L 39+25	26	LT															
L 38+30	0	CL															
L 37+72	26	LT															
L 35+86	25	LT															
L 33+10	24	LT															
L 31+07	23	LT															
L 59+66	24	LT															
L 61+17	25	LT															
L 70+41	24	RT															
L 81+24	20	RT															
DR1 10+60	9	RT															
Y6 23+20	44	RT															
Y16 16+26	11	RT															
Y16 16+74	12	RT															
L 36+47	28	RT															
L 32+47	62	LT															
L 31+82	67	LT															
Y5 16+67	60	LT															
Y6 29+30	39	LT															
Y6 30+46	39	LT															
Y6 31+00	6	LT															
Y16 15+47	11	RT															
Y16 16+36	16	RT															
Y16 17+37	38	LT															
Y16 17+42	22	RT															
Y6 31+55	26	RT															
Y16 16+15	5	RT															
L 37+24	27	RT															
L 37+95	27	RT															
L 38+28	40	RT															
L 61+35	43	LT															
SHEET TOTALS																	

Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
SHEET TOTALS					

C. A. A. PIPE	12	15	18	24	30	36	42	48
	.064	.064	.064	.064	.079	.079	.109	.109
SHEET TOTALS								

R. C. PIPE CLASS III	12	15	18
SHEET TOTALS			

R. C. PIPE CLASS IV	12	15	18
SHEET TOTALS			

R. C. PIPE CLASS V	12	15	18	24	30	36	42	48
SHEET TOTALS								

15" DUCTILE IRON PIPE

ENDWALLS STD. 838.11, 838.21, 838.31 (UNLESS NOTED OTHERWISE) CY

QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)	A	B
	0' THRU 5' EACH	5' THRU 10' LIN. FT.	10' AND ABOVE LIN. FT.
SHEET TOTALS			

C.B. STD. 840.01 OR STD. 840.02

FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE	E	F	G
SHEET TOTALS			

CONCRETE TRANSITIONAL SECTION
D.I. STD. 852.04 OR STD. 852.06
C.B. STD. 852.05
SHEET TOTALS

SPECIAL JUNCTION BOX, SEE SHEET 2C-7

SPECIAL CATCH BASIN, SEE SHEET 2C-1 OR 2C-6

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/ 2 GRATES STD. 840.24

G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29

G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29

DRIVEWAY D.I. STD. 840.30

FRAME W/ GRATE FOR DRIVEWAY STD. 840.30

J.B. STD. 840.31 OR STD. 840.32

T.B.J.B. STD. 840.34

T.B.D.I. STD. 840.35

M.H. STD. 840.51, STD. 840.52, OR STD. 840.53

M.H. FRAME AND COVER STD. 840.54

CONVERT EXISTING J.B. TO 2GI

ADJUST M.H.

ADJUST C.B.

FLOWABLE FILL CY
1
2
1
2
1
6
1
1
2
1
6
1
1
1
1
7
2
1
19
112
4
68
152
172
67
6
2
5
9
3
7
1
5
4
3
5
5
3
4
2
9
1
5
1
6
1
3
5
2
1
730

CONCRETE COLLARS CL. "B" STD. 840.72 CY

CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY

PIPE REMOVAL LIN. FT.

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

REMARKS