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COMPUTED BY: W. ALLEN DATE: 2-8-16
CHECKED BY: J. BANKS DATE: 3-29-16

PROJECT REFERENCE NO.	SHEET NO.
W-5203W	3D-1
R/W SHEET NO.	

REVISIONS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +25%	BORROW	WASTE
-L- 17+00.00	-L- 41+00.00	867	1,700	3,246	2,379	1,700
PROJECT TOTALS:		867	2,400	1,746	879	2,400
GRAND TOTALS:		847			923	2400
SAY:		1,000			1,000	2,600

EST. UNDERCUT CONTIGENCY: 2400 CY
EST. SELECT GRANULAR MATERIAL: 2600 CY
EST. GEOTEXTILE FOR SOIL STABILIZATION: 2900 SY
EST. SHALLOW UNDERCUT FOR AGGREGATE SUBGRADE: 100 CY
CLASS IV SUBGRADE STABILIZATION: 190 TON

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Note: Approximate quantities only. Unclassified excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

STATEWIDE
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & 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	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	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"	**" 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 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	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET	D.I. FRAME & GRATE STD. 840.16	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	MANHOLE FRAME AND COVER STD. 840.54			CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L- 25+70	LT	0501		43.1																																													1										1										
		0501	0502		40.4	40.2																													72																																		
-L- 26+45	LT	0502		43.3																																													1										1										
		0502	0504		40.2	39.4																													28																																		
-L- 26+75	LT	0504		43.2																																													1										1										
		0505	0504		39.5	39.4																													32																																		
-L- 26+95	RT	0505		41.7																																													1											1									REMOVE EX. DI
		0504	0512		39.4	39.0																																																															RETAIN EX. 15" RCP
-L- 26+00	LT	0503		42.5																																													1													1							
		0503	0506		38.3	38.2																															28																																
-L- 26+09	LT	0512																																																																0.3990			COLLAR AND EXTEND
		0512	0503		39.0	38.9																													16																																		
		0513	0503		38.7	38.3																															32																																
-L- 25+97	RT	0514																																																																0.5526			COLLAR AND EXTEND
		0515	0514		39.1	39.0																															12																																
-L- 35+29	RT	0507																																																																			
		0507	0508		37.9	36.9																																																															RETAIN EX. 18" RCP
-L- 35+29	RT	0508																																																															0.4465			
		0508	0509		36.9	36.9																														8																																	REMOVE EX. DI
-L- 35+29	LT	0509		41.7																																													1										1										
		0509	0510		36.7	36.3																																																															RETAIN EX. 18" RCP
-L- 35+27	LT	0510				36.3																																																															
-L- 39+33	RT	0601		43.5																																													1										1										
		0601	0602		40.1	39.8																														40																																	
-L- 39+00	RT	0602		42.8																																													1											1									
		0602	0511		39.8	38.8																														196																																	
-L- 37+00	LT	0511		41.8																																													1											1									
		0511	0509		38.8	37.9																														172																																	
-L- 37+85	LT	0603																															44																																		REMOVE AND REPLACE DRIVE PIPE
TOTAL																																			192	416	72													9										5	3		1				1.4166			

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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