COMPUTED BY: DGM DATE: 03/31/2015
CHECKED BY: TEH DATE: 04/20/2015

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.24	3B–1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

ALIGNMENT	STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L–	10+78.44	12+73.00	102	5		97
–L–	13+28.00	16+06.13	77	184	107	
SUBTOTALS:			179	189	107	97
SHOULDER MATERIAL				58	58	
WASTE TO REPLACE BORROW					–97	–97
PROJECT TOTALS:			179	247	68	0
5% TO REPLACE TOPSOIL ON BORROW PIT					3	
GRAND TOTALS:			179		71	
SAY:			190		80	

EST. 50 CY UNDERCUT – PER DIVISION REQUEST
EST. 50 CY SELECT GRANULAR MATERIAL – PER DIVISION REQUEST
EST. 50 SY GEOTEXTILE FOR SOIL STABILIZATION – PER DIVISION REQUEST
EST. 50 TONS INCIDENTAL STONE – PER DIVISION REQUEST
EST. 65 CY EXCAVATION AT END BENT 1
EST. 50 CY EXCAVATION AT END BENT 2

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, Borrow Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

RIGHT OF WAY AREA DATA

PARCEL NO.	PROPERTY OWNERS NAMES	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RT.	AREA REMAINING LT.	CONST. EASE.	TEMP. UTILITY EASE.	PERM. DRAIN. EASE.	TEMP. DRAIN. EASE.
1	RAY H. DUNKELBERG	6.77 AC	2178 SF	6.72 AC	–	–	–	–	–
2	MARK S. & PAGE I. LEMEL	18.55 AC	–	–	–	–	–	–	–
3	DOELL, WANDA F. & KIMBERLY	0.83 AC	–	–	–	–	–	150 SF	150 SF
4	V.F.W.	3.51 AC	4669 SF	3.40 AC	–	150 SF	968 SF	–	–
5	TRANSYLVANIA BAPTIST ASSOC.	2.41 AC	–	–	–	–	–	–	–
6	DONALD WAYNE & MILDRED L. HYMAN	–	–	–	–	–	–	–	–
7	JAMES R. ARROWOOD	–	–	–	–	–	–	–	–

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH (FT)
–L–	12+45.79 RT	12+55.67 RT	9.9
		TOTAL:	9.9
		SAY:	10

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
–L–	11+82	12+11	LT	20.55
–L–	12+38	12+93	LT	58.87
–L–	13+12	13+81	LT	44.45
–L–	15+20	15+37	LT	1.33
			TOTAL:	125.20
			SAY:	130

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" | C.S. PIPE (UNLESS NOTED OTHRWISE) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | CLASS IV R.C. PIPE (UNLESS OTHERWISE NOTED) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" 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") LIN. *FT. A | B | PER EACH (0' THRU 5.0') | 5.0' THRU 10.0' | 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. STD. 840.15 OR STD. 840.14 | D.I. FRAME & 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 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B.D.I. STD. 840.36 | G.D.I. FRAME WITH TWO GRATES STD. 840.37 | 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 |
|---|---|---|---|---|---|---|---|---|---