PROJECT REFERENCE NO.	SHEET NO.
17BP.11.R.146	3B-1

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENTWILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 1							
-L-	11+25.00	12+75.00	11		55	44	
-L-	14+00.00	15+50.00	16		91	75	
SUBTOTAL			**27**		**146**	**119**	
SUMMARY 2							
-DR1-	10+50.00	10+75.00	6		5		1
SUBTOTAL			**6**		**5**		**1**
SUMMARY 3							
-DR2-	10+85.00	11+00.00	5				5
SUBTOTAL			**5**				**5**
SHEET TOTALS			**38**		**151**	**119**	**6**
EARTH WASTE IN LIEU OF BORROW						**-6**	**-6**
PROJECT TOTAL			**38**		**151**	**113**	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT						**6**	
GRAND TOTAL			**38**			**118**	
SAY			**40**			**120**	

DRAINAGE DITCH EXCAVATION = 5 C.Y.

GUARDRAIL SUMMARY

IN LINEAR FEET

COMPUTED BY:	EBS	DATE:	10/28/2019
CHECKED BY:	JRGO	DATE:	11/5/19

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJ. REF. NO.	SHEET NO.
980020	

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
W = TOTAL WIDTH OF FLARE FROM BEGIN

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

ALN.	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL WIDTH	FLARE LENGTH		W		ANCHORS					IMPACT ATTENUATOR TYPE 350		REMOVE EXISTING GR	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPROACH END	TRAILING END	APPR. END	TRAIL. END	TYPE-III	CAT-1	GRAU 350	TL-2	AT-1	G	NG		
L	12+22.07	12+82.29	LT	60.22											1			1					
L	12+22.07	12+82.31	RT	60.24											1			1					
L	13+99.69	14+38.59	LT	40.52	13.27										1				1				
L	13+99.69	14+56.06	RT	56.37											1			1					
			SUBTOTAL:	217.35	13.27										4	0	0	3	1			0.0	
			ANCHOR UNIT DEDUCTIONS:																				
			Type-III @ 18.75' Each	-75.00																			
			Type GRAU-350 @ 50' Each	0.00																			
			TL-2 @ 25' Each	-75.00																			
			AT-1 @ 6.25' Each	-6.25																			
			LESS GUARDRAIL DEDUCTIONS:	61.10	13.27																		
			PROJECT TOTAL:	61.10	13.27																		
			SAY:	**62.5**	**25.0**										**4**	**0**	**0**	**3**	**1**			**0**	

SUMMARY OF SHOULDER BERM GUTTER

IN LINEAR FEET

LINE	Station	Station	LENGTH
L	12+55.45	12+71.44	16
L	12+55.45	12+71.44	16
		TOTAL:	32
		GRAND TOTAL:	32

SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT

IN SQUARE YARDS

LINE	STATION	STATION	LENGTH	SQUARE YARDS
-L-	11+07	12+98	921.83	102.43
-L-	13+88	15+63	770.47	85.61
			TOTAL:	188.03
			SAY:	**190**

PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

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11/20/2019
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