

## ROADWAY DATA

GRADE POINT ELEV. @ STATION 15+47.41 -NBCD- = 192.51 BED ELEV. @ STATION 15+47.41 -NBCD-= 177.10 = 4:1 (LEFT), 3:1 (RIGHT) ROADWAY SLOPES

HYDRAULIC DA	ΑΤΑ
DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION DRAINAGE AREA BASE DISCHARGE (Q100) BASE HIGH WATER ELEVATION	= 340 C.F.S. = 100 YRS. = 184.40 = 0.55 SQ.MI. = 340 C.F.S. = 184.40
OVERTOPPING FLO	OD DATA
OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FL OVERTOPPING FLOOD ELEVATION	

NOTE: OVERTOPS SP @ STA. -NBCD- 18+71.00 LT (SAG)

TOTAL	STRUC	TURE	QUANT	TTIES
CULVERT	EXCAVATIO	N	l	UMP SUM
FOUNDATI	ON CONDIT	IONING	MATERIAL	80 TONS
CLASS A	CONCRETE			
BARREL @	0.918	_CY/FT_	78.1	C.Y.
WINGS ET	/INGS ETC. 40.2		C.Y.	
TOTAL	TOTAL118.3			
REINFORC	ING STEEL			
BARREL		11,430		LBS.
WINGS ETC. 2,718		LBS.		
TOTAL		14,148		LBS.

NOTES: OF ALL VERTICAL WALLS. HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING. MAXIMUM DESIGN FILL = 7.56'. MINIMUM DESIGN FILL = 7.12'. FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET. 3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS. CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER: THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL. DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT.LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. AT THE CONTRACTORS OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR. FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS. A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT. NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.



FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

-		<u>HARNE</u> dn: <u>15</u>	ETT	<u>-5878</u> co 1 -NB	UNTY
DocuSigned by: Amanda H. Sharpa 81D6FFF4ECEF4D2 4/27/2021	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SINGLE 8 FT. X 8 FT. CONCRETE BOX CULVERT 87°-37'-52" SKEW				
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					
Michael Baker Engineering	REVISIONS SHEET NO.				
Michael Baker 8000 Regency Parkway, Suite 600 Cary, North Carolina 27518	NO. BY: ≺1		NO. BY:	DATE:	
NTERNATIONAL NC License No. : F-1084	1 2		<u>3</u> 4		TOTAL SHEETS 6