

4/7/2017 2:26:38

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HYDRAULIC DA	<u>ATA</u>		
DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION BASE DISCHARGE (Q 100) BASE FREQUENCY BASE HIGH WATER ELEVATION	120 50 23.4 150 100 23.8	CFS YR. FT. CFS YR. FT.	
OVERTOPPING FLOC)D DA ⁻	ΓΑ	
OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEVATION	415 500 29.2	CFS YR. FT.	
TOTAL STRUCTURE QUA	NTITI	ES	
CLASS A CONCRETE			
BARREL @0.6173CY/FT	17.3	C.Y.	
EDGE BEAMS	1.2	C.Y.	
WING ETC	21.0	C.Y.	
TOTAL	39.5	<u> </u>	
EPOXY COATED REINFORCING STEEL			1
BARREL	4181	LBS.	
WINGS ETC	1922	LBS.	
TOTAL	6105	LBS.	

NOTES: ASSUMED LIVE LOAD ----- HL-93 OR ALTERNATE LOADING. DESIGN FILL----- 5 FT. 3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS. CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER: 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS. 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS. 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 SHEETS. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FEET. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS 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. DOWELS SHALL BE USED TO CONNECT THE CULVERT EXTENSION TO THE EXISTING CULVERT AS SHOWN. FOR NOTE REGARDING SETTING OF DOWELS, SEE SHEET SN. 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. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS. ALL BAR SUPPORTS USED IN THE CULVERT BARREL AND WINGS AND ALL INCIDENTAL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

		PROJECT NO.		R-5516			
		CRAVEN			cc	UNTY	
		STATION:	7	8+08.	84 -L-		
		SHEET 1 OF 7					
7.5±	AECOM TECHNICAL SERVICES, INC. 701 CORPORATE CENTER DRIVE, SUITE 475 RALEIGH, NC 27607 (919) 854-6200 www.aecom.com AECOM License No. F-0342	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH BARREL STANDARD SINGLE 6 FT.X 5 FT. CONCRETE BOX CULVERT EXTENSION 75° SKEW					
	4/12/2017 NORTH CAROL NORTH CAROL SEAL 030474						
	AND	REVISIONS SHEET NO.					
DNSIDERED S ALL MPLETED	John C. Morrison	1 2	<u>.</u> 3		DATE:	TOTAL SHEETS 7	