

+

+

ND.MAT'L.		
	180	TONS
	153	TONS
	230	TONS
	563	TONS



ASSUMED LIVE LOAD ----- HL-93 OR ALTERNATE LOADING.

DESIGN FILL----- 5.0 FT.

FOR OTHER DESIGN DATA AND NOTES, SEE STANDARD NOTES SHEET.

3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN EACH STAGE 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 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 CONTRACTOR'S 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.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR CONSTRUCTION SEQUENCE, SEE EROSION CONTROL PLANS.

FOR TRAFFIC PHASING, SEE TRAFFIC CONTROL PLANS.

AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN.FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.

SEE SECTION 414 OF THE STANDARD SPECIFICATIONS FOR CULVERT EXCAVATION AND BACKFILLING. EXCAVATE 1 FOOT BELOW CULVERT FOOTING AND REPLACE WITH FOUNDATION CONDITIONING MATERIAL IN ACCORDANCE WITH ARTICLE 414-4 OF THE STANDARD SPECIFICATIONS.

BACKFILL WITH SELECT MATERIAL, CLASS VI MEETING THE REQUIREMENTS OF SECTION 1016 OF THE STANDARD SPECIFICATIONS.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS.FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

DOWELS SHALL BE USED TO CONNECT THE STAGE II CULVERT TO STAGE I AND STAGE III TO II AS SHOWN.FOR NOTE REGARDING SETTING OF DOWELS.SEE SHEET SN.

- APPROX. NATURAL GROUNDLINE

ROADWAY DATA	
G.P. ELEV. @ STA. 310+73.00 -L- SB = 149.58' G.P. ELEV. @ STA. 310+73.00 -L- NB = 149.74' BED ELEV. @ STA. 310+73.00 -L = 132.0' ROADWAY SLOPES = 3 :1	
HYDRAULIC DATA	
DESIGN DISCHARGE = 2600 CFS FREQUENCY OF DESIGN FLOOD = 100 YRS DESIGN HIGH WATER ELEVATION = 144.3' DRAINAGE AREA = 17.5 SQ.M BASE DISCHARGE (Q100) = 2600 CFS BASE HIGH WATER ELEVATION = 144.3'	VI.
OVERTOPPING FLOOD DATA	
OVERTOPPING DISCHARGE = 4915 CFS FREQUENCY OF OVERTOPPING FLOOD _ = 500+ YRS OVERTOPPING FLOOD ELEVATION= 148.6′ *	

\* OVERTOPPING OCCURS AT LOW POINT AT STA. 314+65 -L- SB

SEAL 2012 SEAL 2012		PROJECT NO ROBESON STATION:310+	
INLESS ALL SIGNATURES COMPLETED REVISIONS SHEET NO.   TGS ENGINEERS NO. BY: DATE: NO. BY: DATE: C11-1   SUITE 200 I I I I TOTAL   RALEIGH, NC 27603 I I I I I   PH (919) 773-8887 I I I I I	57BCC2F3A4DC413 5/10/2022   10:02 AM EDT	DEPARTMENT OF Rale TRIPLE 12 F CONCRETE B	TRANSPORTATION TIGH T.X 12 FT. OX CULVERT
	NLESS ALL SIGNATURES COMPLETED TGS ENGINEERS 706 HILLSBOROUGH STREET SUITE 200 RALEIGH, NC 27603	NO. BY: DATE: NO. E	BY: DATE: C11-1 TOTAL SHEETS