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FOR CRANE SAFETY, SEE SPECIAL PROVISIONS. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

DOWELS SHALL BE USED TO CONNECT THE HEADWALL EXTENSION AND THE WING EXTENSIONS TO THE EXISTING CULVERT AS SHOWN. FOR NOTE REGARDING SETTING OF DOWELS, SEE SHEET SN.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

NOTES:

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

THE RESIDENT ENGINEER SHALL CHECK THE HEIGHT OF THE HEADWALL AND WING EXTENSIONS BEFORE CONSTRUCTION TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

## F.A. PROJECT NO.: APD-0074(178)

## TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE		
INLET HEADWALL & WING EXTENSIONS	8.8	C.Y.
OUTLET HEADWALL & WING EXTENSIONS	4.0	C.Y.
TOTAL	12.8	C.Y.
REINFORCING STEEL		

INLET HEADWALL & WING EXTENSIONS	737	LBS.
OUTLET HEADWALL & WING EXTENSIONS	456	LBS.
TOTAL	1,193	LBS.

## CULVERT LAYOUT

	PROJEC STATIC	CT NO. GRAH DN:	A A A A A A A A A A A A A A A A A A A	-0009 CC 4.70 ·	<u>CA</u> DUNTY -L-	
Marshall G. Chuck, Jr. 20125 NGINEER C. CHUK, Jr. 20125 NGINEER C. CHUK, 6/1/2022	DEPARTMENT OF TRANSPORTATION RALEIGH QUADRUPLE 12FT. × 12FT. CONCRETE BOX CULVERT 110° SKEW					
DOCUMENT NOT CONSIDERED FINAL NLESS ALL SIGNATURES COMPLETED	REVISIONS SHEET NO.					
TGS ENGINEERS 804-C N. LAFAYETTE ST	NO. BY:	DATE:	NO. BY:	DATE:	C1-1	
SHELBY, NC 28150 PH (704) 476–0003 CORP. LICENSE NO.: C–0275	ป 2		শ্র 4		SHEETS 5	
	STR.#1					