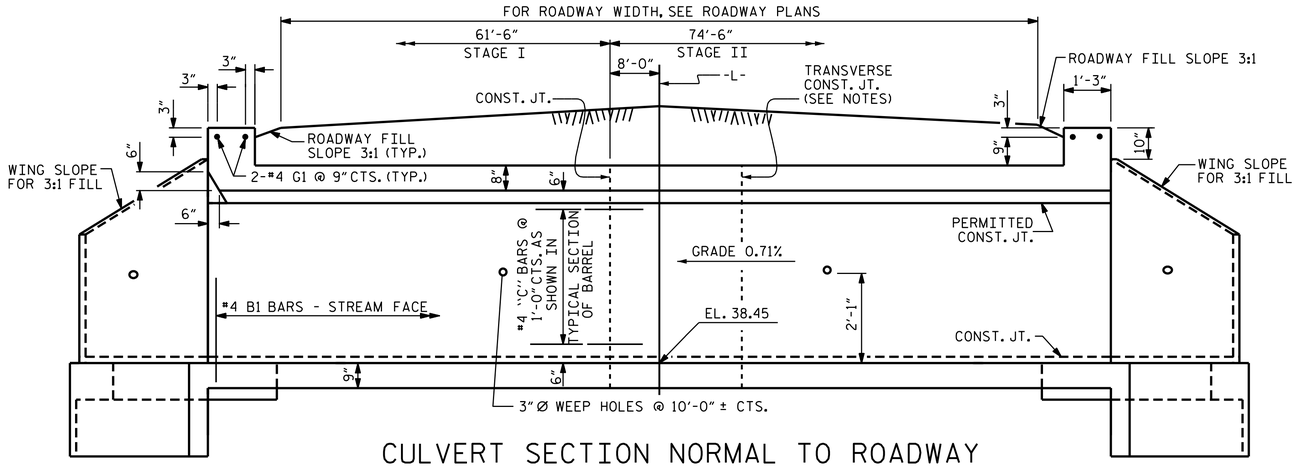
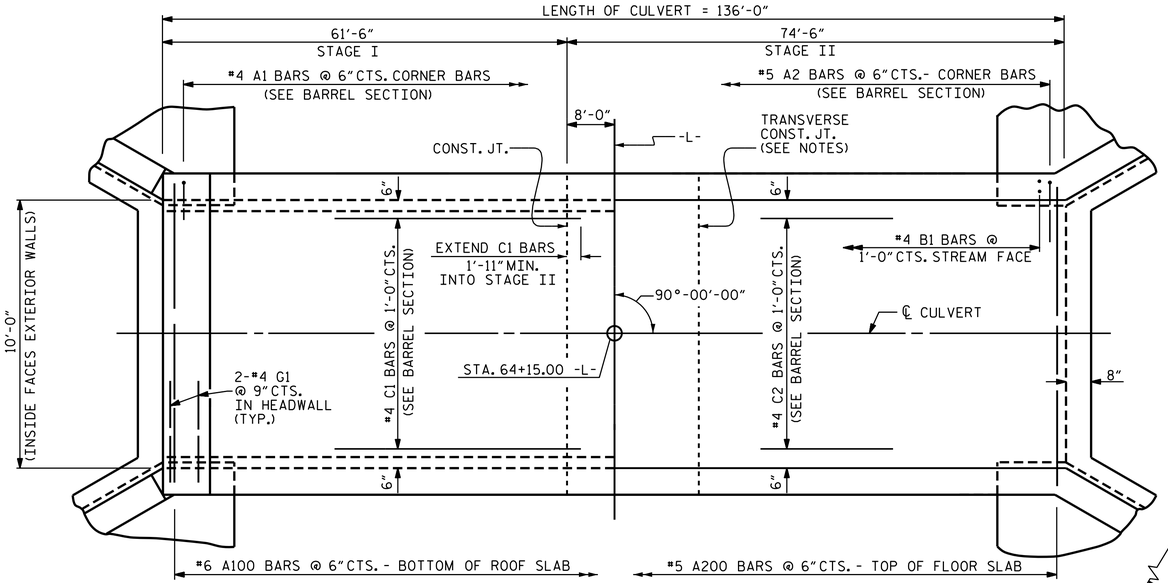
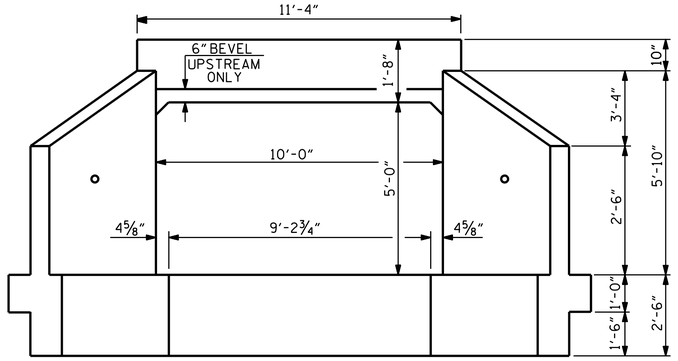


CULVERT SECTION NORMAL TO ROADWAY

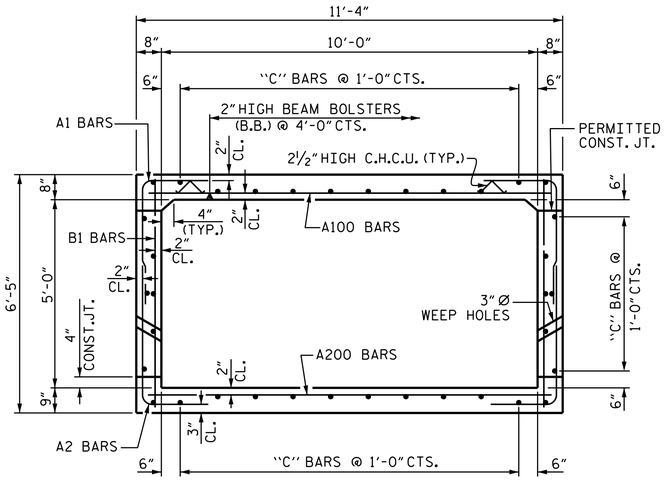


PART PLAN ROOF SLAB

PART PLAN FLOOR SLAB



END ELEVATION



RIGHT ANGLE SECTION OF BARREL

THERE ARE 36 "C" BARS IN SECTION OF BARREL

BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

SPLICE LENGTH CHART		
BAR	SIZE	SPLICE LENGTH
B1	#4	1'-5"
C1, C2	#4	1'-11"

BILL OF MATERIAL

STAGE I

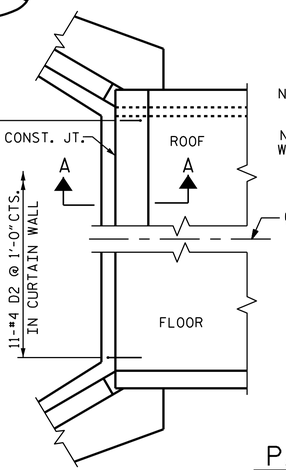
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	246	#4	1	7'-7"	1246
✳ A2	246	#5	1	7'-7"	1946
✳ A100	123	#6	STR.	10'-11"	2017
✳ A200	123	#5	STR.	10'-11"	1400
✳ B1	124	#4	STR.	5'-11"	490
✳ C1	108	#4	STR.	22'-6"	1623
✳ G1	2	#4	STR.	11'-0"	15

✳ EPOXY COATED REINF. STEEL = 8,737 LBS

STAGE II

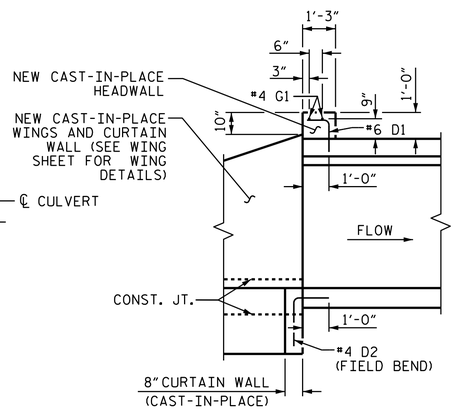
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	298	#4	1	7'-7"	1510
✳ A2	298	#5	1	7'-7"	2357
✳ A100	149	#6	STR.	10'-11"	2443
✳ A200	149	#5	STR.	10'-11"	1697
✳ B1	150	#4	STR.	5'-11"	593
✳ C2	108	#4	STR.	26'-0"	1876
✳ G1	2	#4	STR.	11'-0"	15

✳ EPOXY COATED REINF. STEEL = 10,491 LBS



PART PLAN

END OF REMAINING PORTION OF EXISTING 10' X 5' RCBC



SECTION A-A

NOTES

INSTALL #6 D1 AND #4 D2 BARS IN THE EXISTING SLAB USING ADHESIVE ANCHORAGE. THE YIELD LOAD OF THE BARS IS 10 KIPS. LEVEL ONE FIELD TESTING OF THE ANCHORING SYSTEM IS REQUIRED. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SECTION 420-13 OF THE STANDARD SPECIFICATIONS.

DURING CONSTRUCTION OF CURTAIN WALLS, WINGS, AND HEADWALL, ANY DAMAGE TO THE EXISTING CULVERT SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REPAIRS.

NORTH CAROLINA PROFESSIONAL SEAL 26445 ENGINEER KOREY NEWTON

DocuSigned by: P. Korey Newton 4FFE39D1491B407...

1/21/2019

PROJECT NO. R-5021

BRUNSWICK COUNTY

STATION: 64+15.00 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SINGLE 10 FT. X 5 FT. CONCRETE BOX CULVERT 90° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C1-2
1			3			TOTAL SHEETS
2			4			4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : WFP / OTN	DATE : 10-17	SPECIAL	
CHECKED BY : P. K. NEWTON	DATE : 12/1/18		
DRAWN BY : R. WRIGHT	DATE : AUG. 1989	STANDARD	
CHECKED BY : A.R. BISSETTE	DATE : AUG. 1989		

REVISED 8-28-92 BY E.L.R. CHECKED BY G.R.P.
REVISED 8-22-89 BY A.R.B. CHECKED BY C.R.K.
REDRAWN 8-22-1989

REVISED 11-19-99 BY M.M. CHECKED BY R.W.W.

21-JAN-2019 02:42
H:\Structures\Plans\Cull\R5021_SMU_ CULI_090000.dgn
pknewton

CUL 1

STD. NO. CB11