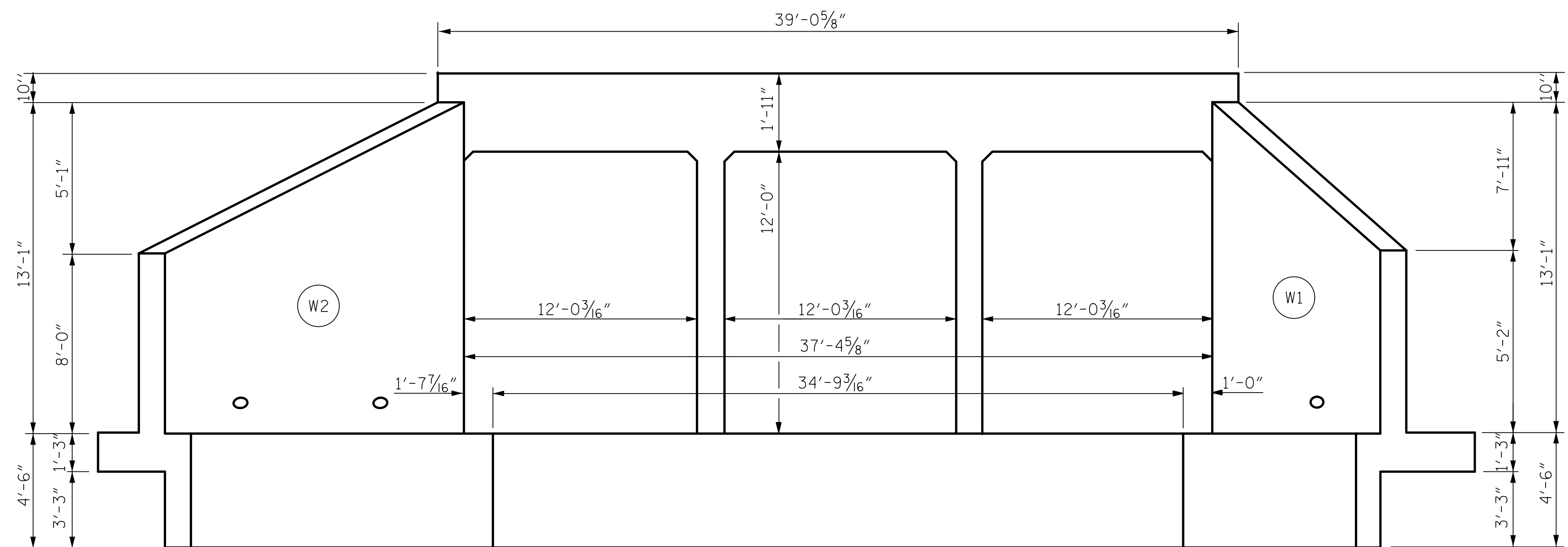


RIGHT ANGLE SECTION OF BARREL

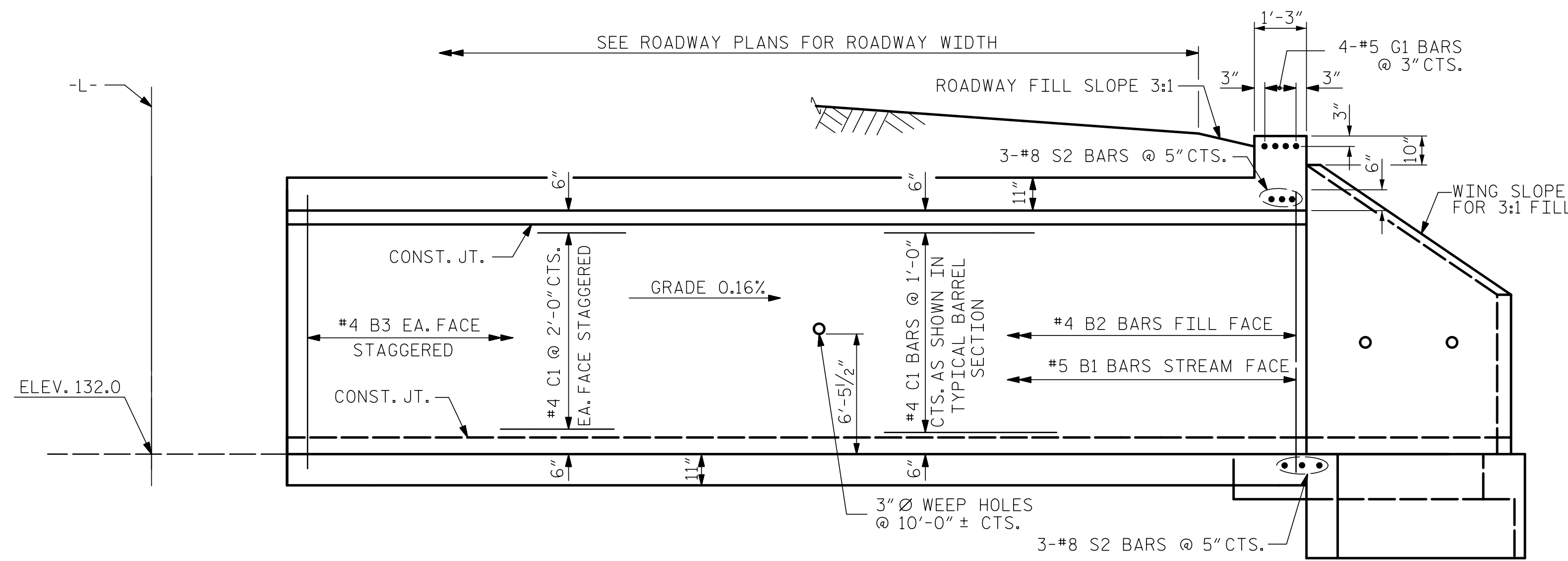
THERE ARE 148 "C" BARS IN SECTION OF BARREL.

STAGE I QUANTITIES			
CLASS A CONCRETE			
BARREL @	3.99	CY/FT	236.4 C.Y.
WINGS, ETC.			50.3 C.Y.
SILLS			1.3 C.Y.
TOTAL			288.0 C.Y.
REINFORCING STEEL			
BARREL & SILLS			35,062 LBS.
WINGS, ETC.			3,363 LBS.
TOTAL			38,425 LBS.
CULVERT EXCAVATION		LUMP SUM	
FOUNDATION COND. MAT'L.		180 TONS	

STAGE I BAR SCHEDULE													
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT		
A100	87	#6	STR	38'-7"	5042	A1	177	#6	1	7'-1"	1883		
A101	1	#6	STR	35'-2"	53	A2	177	#5	1	5'-10"	1077		
A102	1	#6	STR	22'-5"	34								
A103	1	#6	STR	9'-9"	15	B1	120	#5	STR	13'-4"	1669		
						B2	177	#4	STR	11'-4"	1340		
A200	87	#5	STR	38'-7"	3501	B3	356	#4	STR	13'-4"	3171		
A201	1	#5	STR	35'-2"	37								
A202	1	#5	STR	22'-5"	23	C1	296	#4	STR	30'-11"	6113		
A203	1	#5	STR	9'-9"	10								
						D2	12	#6	STR	1'-6"	27		
A300	87	#6	STR	38'-7"	5042								
A301	1	#6	STR	35'-2"	53	G1	4	#5	STR	38'-7"	161		
A302	1	#6	STR	22'-5"	34								
A303	1	#6	STR	9'-9"	15	S2	6	#8	STR	38'-7"	618		
A400	87	#6	STR	38'-7"	5042								
A401	1	#6	STR	35'-2"	53								
A402	1	#6	STR	22'-5"	34								
A403	1	#6	STR	9'-9"	15								
											REINFORCING STEEL	35,062 LBS.	



OUTLET END ELEVATION NORMAL TO SKEW

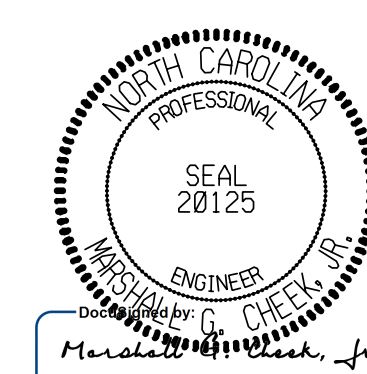


**INTERIOR WALL EXTERIOR WALL
STAGE I - CULVERT SECTION NORMAL TO ROADWAY**

BAR TYPE		
VERTICAL LEG		
①		
6" R.		
2'-11 1/2"	9/2"	A1
2'-6 1/2"	9/2"	A2
DIMENSIONS ARE OUT TO OUT		
SPlice LENGTHS CHART		
BAR	SIZE	SPlice LENGTH
"B"	#4	1'-10"
"B"	#5	2'-4"
C1	#4	1'-10"
A200	#5	2'-4"
A400	#6	2'-9"
S2	#8	3'-8"

PROJECT NO. I-5987A
ROBESON COUNTY
 STATION: 310+73.00 -L-

SHEET 3 OF 14



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**TRIPLE 12 FT. X 12 FT.
 CONCRETE BOX CULVERT
 STAGE I**

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED
 TGS ENGINEERS
 706 HILLSBOROUGH STREET
 SUITE 200
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C11-3
1			3			TOTAL SHEETS 14
2			4			

DRAWN BY : ZCS DATE : 10/21
 CHECKED BY : MGC DATE : 1/22
 DESIGN ENGINEER OF RECORD: ZCS DATE : 1/22