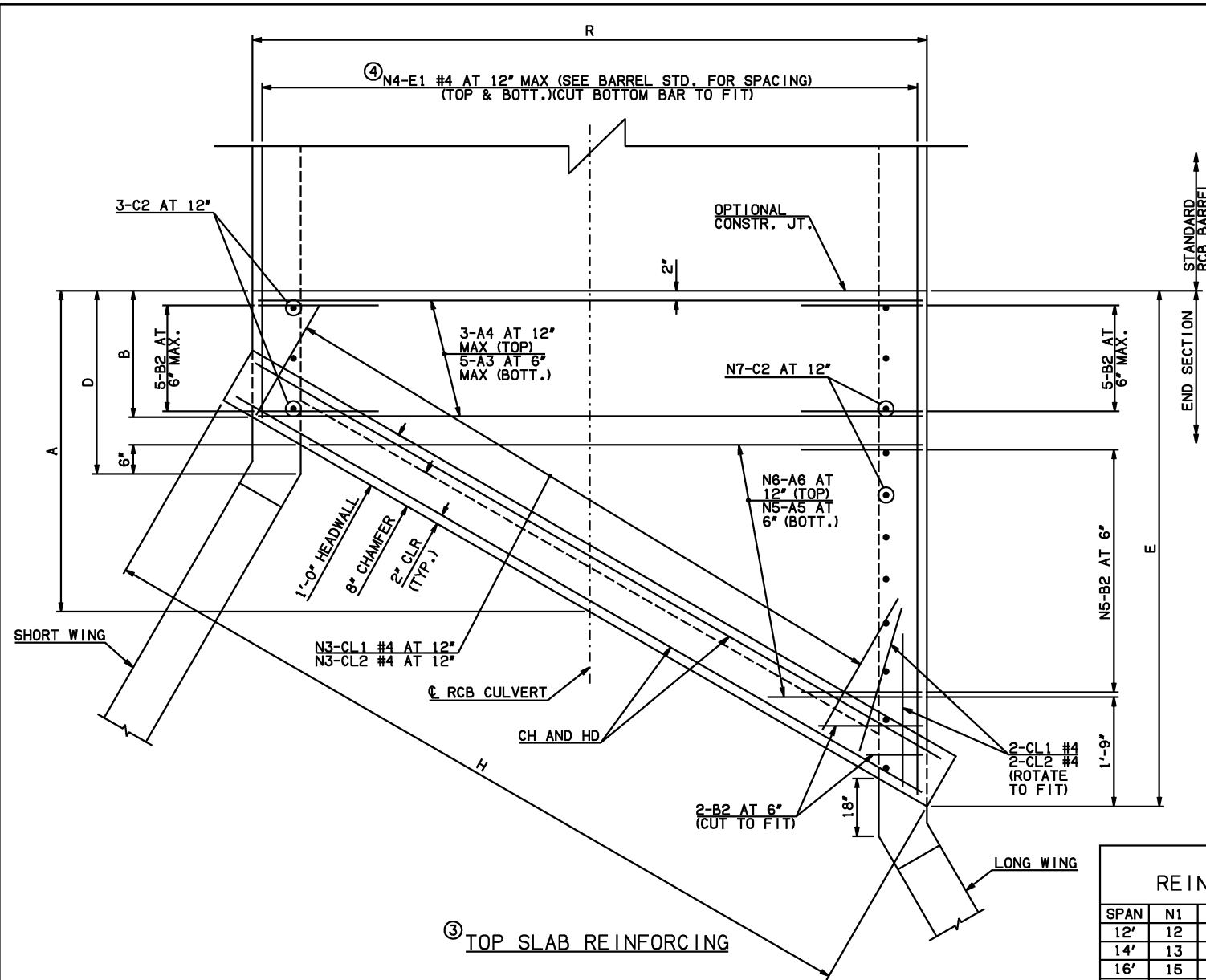
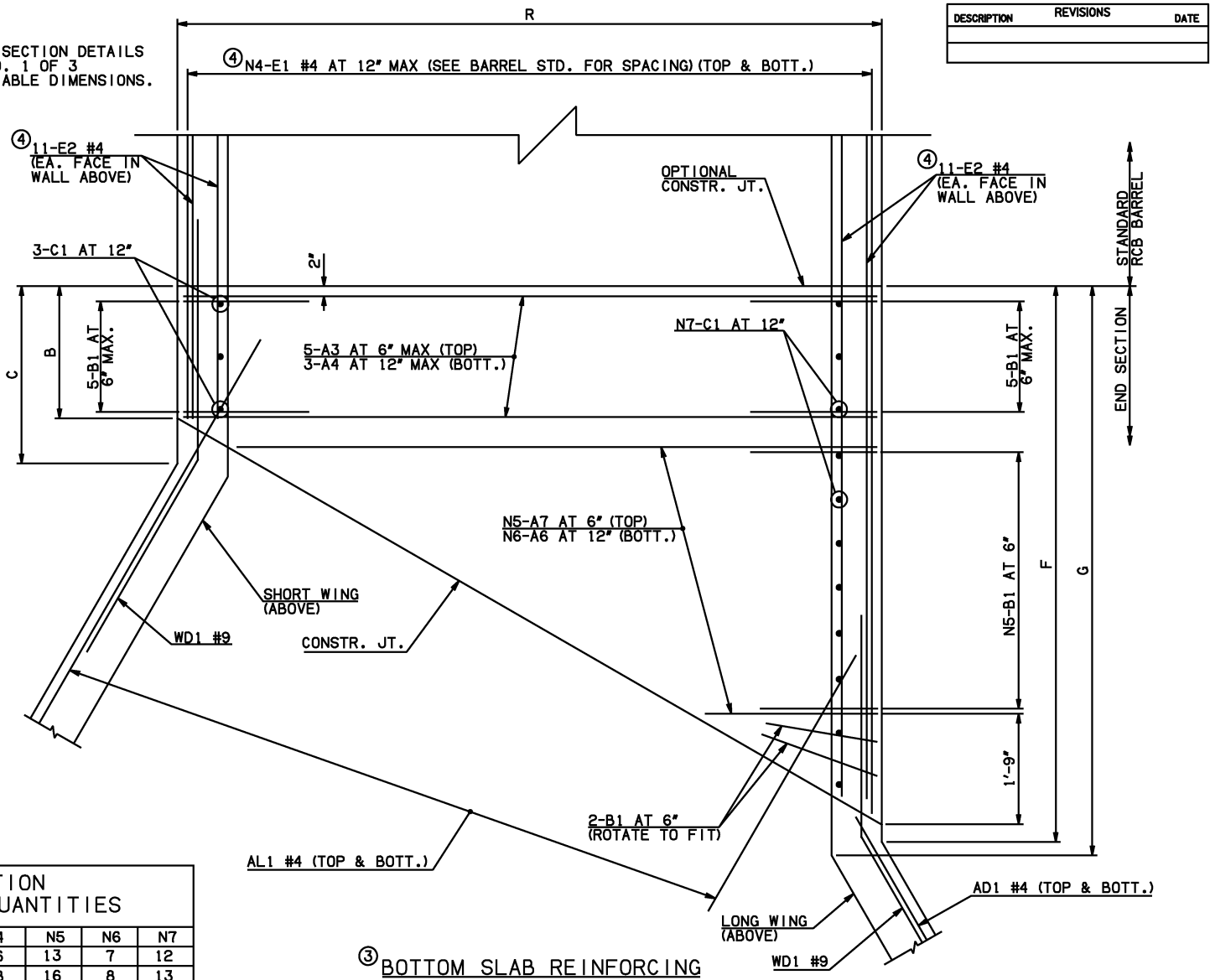




END SECTION REINFORCING QUANTITIES								
SPAN	N1	N2	N3	N4	N5	N6	N7	
12'	12	26	15	16	13	7	12	
14'	13	25	17	18	16	8	13	
16'	15	23	20	20	18	9	14	
18'	16	22	22	22	21	11	16	
20'	17	21	24	24	23	12	17	



END CONNECTION BAR LIST																										
ONE END CONNECTION SHOWN																										
MARK	FORM	12' SPAN					14' SPAN					16' SPAN					18' SPAN					20' SPAN				
		SIZE	QTY.	LENGTH	REMARKS		SIZE	QTY.	LENGTH	REMARKS		SIZE	QTY.	LENGTH	REMARKS		SIZE	QTY.	LENGTH	REMARKS		SIZE	QTY.	LENGTH	REMARKS	
②	A3	STR	#7	10	13'-8"		#7	10	15'-10"		#8	10	18'-0"		#9	10	20'-2"		#9	10	22'-2"					
	A4	STR	#4	6	13'-8"		#4	6	15'-10"		#4	6	18'-0"		#5	6	20'-2"		#5	6	22'-2"					
	A5	STR	#7	13	6'-6½" AVG.	1'-4" TO 11'-9"	#7	16	7'-10" AVG.	1'-4" TO 14'-4"	#8	18	8'-8½" AVG.	1'-4" TO 16'-1"	#9	21	10'-0" AVG.	1'-4" TO 18'-8"	#9	23	10'-10½" AVG.	1'-4" TO 20'-5"				
	A6	STR	#4	14	7'-8½" AVG.	2'-6" TO 12'-11"	#4	16	8'-6½" AVG.	2'-6" TO 14'-7"	#4	18	9'-5" AVG.	2'-6" TO 16'-4"	#5	22	11'-2" AVG.	2'-6" TO 19'-10"	#5	24	12'-0½" AVG.	2'-6" TO 21'-7"				
	A7	STR	#7	13	7'-8½" AVG.	2'-6" TO 12'-11"	#7	16	9'-0" AVG.	2'-6" TO 15'-6"	#8	18	9'-10½" AVG.	2'-6" TO 17'-3"	#9	21	11'-2" AVG.	2'-6" TO 19'-10"	#9	23	12'-0½" AVG.	2'-6" TO 21'-7"				
	B1	BNT	#6	25	6'-1"		#6	28	6'-5"		#6	30	6'-8"		#7	33	7'-7"		#8	35	7'-11"					
	B2	BNT	#6	25	15'-0"		#6	28	15'-4"		#6	30	15'-7"		#7	33	15'-9"		#8	35	15'-8"					
④	C1	STR	#5	15	2'-7"		#4	16	2'-4"		#5	17	2'-11"		#4	19	2'-7"		#4	20	2'-8"					
	C2	STR	#5	15	11'-11"		#4	16	12'-0"		#5	17	12'-3"		#4	19	12'-3"		#4	20	12'-4"					
⑥	E1	STR	#4	64	6'-9½" AVG.	2'-10" TO 10'-9"	#4	72	6'-9" AVG.	2'-2" TO 11'-4"	#4	80	7'-9½" AVG.	2'-7" TO 13'-0"	#4	88	7'-9" AVG.	1'-11" TO 13'-7"	#4	96	8'-9" AVG.	2'-4" TO 15'-2"				
	E2	STR	#4	44	6'-7" AVG.	2'-10" AND 10'-4"	#4	44	6'-6½" AVG.	2'-2" AND 10'-11"	#4	44	7'-6½" AVG.	2'-7" AND 12'-6"	#4	44	7'-6" AVG.	1'-11" AND 13'-1"	#4	44	8'-6" AVG.	2'-4" AND 14'-8"				

QUANTITIES						
ITEM	UNIT	12' SPAN	14' SPAN	16' SPAN	18' SPAN	20' SPAN
CLASS AA CONCRETE	CY	126.50	132.90	143.90	150.40	160.70
REINFORCING STEEL	LB	16060.00	16690.00	17970.00	19830.00	21330.00

NOTE: QUANTITIES ABOVE ARE FOR ONE END SECTION, WHICH IS COMPRISED OF ONE END CONNECTION, ONE HEADWALL, ONE APRON, AND TWO WINGWALLS.

- NOTES: ② QUANTITY SHOWN REPRESENTS TWO SETS.
- ③ FOR FURTHER INFORMATION REGARDING END SECTION BARS A, B, C, E1, AND E2, REFER TO RCB CULVERT - BARREL DETAILS.
- ④ LENGTHS OF E1 & E2 BARS SHOWN ARE ADDITIONAL LENGTHS REQUIRED FOR THE END SECTION. LAP SPLICES, AS REQUIRED, SHALL BE IN ACCORDANCE WITH RCB BARREL STANDARD NOTES.
- ⑤ 4-SETS OF N4-E1 BARS REQUIRED.
- ⑥ 2-SETS OF 22-E2 BARS REQUIRED WITH LENGTHS AS SHOWN CORRESPONDING TO SHORT EXTERIOR WALL AND LONG EXTERIOR WALL.

APPROVED BY BRIDGE ENGINEER

DATE 4/2/10

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
RCB CULVERTS - END SECTION DETAILS
SINGLE CELL - 11'-0" HEIGHT - 30°
SHEET NO. 2 OF 3

2009 SPECIFICATIONS
RCB-E1-H11-30-2
01E
B-688E