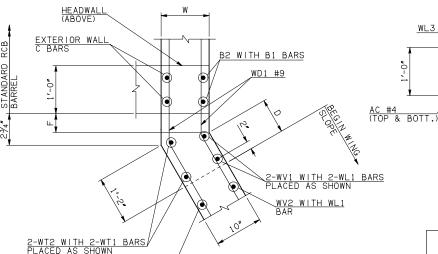


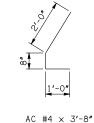
WINGWALL DIMENSIONS SPAN W D F 8' 12" 71/4" 31/2" 10' 12" 7\/4" 3\/2" 12' 12" 7\/4" 3\/2" 12' 12" 7\/4" 3\/2" 14' 12" 7\/4" 3\/2" 16' 13" 5\/4" 5\/4"



PLAN OF WING AT BARREL

APRON VARIABLES											
SPAN	DIM. R	DIM. Q	QTY. J	QTY. K	QTY. N						
8′	28'-0"	31'-1"	2	28	32						
10'	34'-0"	34'-1"	7	23	38						
12'	40'-0"	37'-1"	12	18	44						
14'	46'-0"	40'-1"	17	13	50						
16'	52 ′ -2 ″	43'-1"	22	8	56						

WT3 WITH WT1



	WINGWALL BAR LIST ONE WINGWALL SHOWN; TWO REQUIRED											
	MARK	SIZE	QTY.	FORM	LENGTH	REMARKS						
	WD1	#9	18	BNT	8'-4"							
	WH1	#4	2	STR	34'-6"							
	WH2	#4	18	STR	17'-101/2" AVG.	4'-0" TO 31'-9"						
	WH3	#5	2	STR	34'-8"							
	WL1 #6 10 BNT WL2 #5 29 BNT			BNT	12'-9"							
				BNT	10'-0"							
	WL3	#5	10	BNT	4'-8" AVG.	3'-4" TO 6'-0"						
	WT1	#4	25	STR	2'-10"							
	WT2	#4	2	STR	10'-0"							
	WT3	#4	23	STR	6'-8" AVG.	3'-6" TO 9'-10"						
	WT4 #4 10 STR			STR	2'-8" AVG.	1'-4" TO 4'-0"						
	WV1 #5 2 STR				10'-0"							
	WV2	#5	23	STR	6'-8" AVG.	3'-6" TO 9'-10"						
	U1	#4	1	BNT	2'-8"							

HALF APRON REINFORCING

APRON DETAIL

APRON /	AND	HEADWALL	BAR	LIST
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HALF APRON PLAN

ALTON AND HEADWALE BAK ETST																			
	ONE APRON AND ONE HEADWALL SHOWN																		
					8' SPAN			10' SPAN			12' SPAN			14' SPAN			16' SPAN		
	MARK	SIZE	FORM	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	
	AC	#4	BNT	4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"		
	AD1	#4	STR	4	36'-6"		4	36'-6"		4	36'-6"		4	36'-6"		4	36'-6"		
	AL1	#4	STR	64	32'-8"		76	32'-8"		88	32'-8"		100	32'-8"		112	32'-8"		
1	AL2	#4	STR	64	15'-51/2" AVG.	2'-6" TO 28'-5"	64	15'-51/2" AVG.	2'-6" TO 28'-5"	64	15'-51/2" AVG.	2'-6" T0 28'-5"	64	15'-51/2" AVG.	2'-6" TO 28'-5"	64	15'-51/2" AVG.	2'-6" TO 28'-5"	
	AT1	#4	STR	4	64'-4" ③	•	4	70'-4" ③		4	76 ' -4 " ③		4	82'-4" ③		4	88'-4" ③		
	AT2	#4	STR	2	63'-3" AVG.	62'-8" TO 63'-10"③	7	66'-4" AVG.	62'-10" TO 69'-10"③	12	69'-51/2" AVG.	63'-1" TO 75'-10"③	17	72'-7" AVG.	63'-4" TO 81'-10" ③	22	75'-8 ¹ / ₂ " AVG.	63'-7" TO 87'-10" ③	
	AT3	#5	STR	2	63'-3" AVG.	62'-8" TO 63'-10"(3)	7	66'-4" AVG.	62'-10" TO 69'-10"③	12	69'-51/2" AVG.	63'-1" TO 75'-10"(3)	17	72'-7" AVG.	63'-4" TO 81'-10" ③	22	75'-8 ¹ / ₂ " AVG.	63'-7" TO 87'-10" ③	
	AT4	#4	STR	28	43'-5" AVG.	27'-10" TO 59'-0"	23	46'-6 ¹ / ₂ " AVG.	33'-10" TO 59'-3"	18	49'-71/2" AVG.	39'-10" TO 59'-5"	13	52'-9" AVG.	45'-10" TO 59'-8"	8	55'-101/2" AVG.	51'-10" TO 59'-11"	
	AT5	#5	STR	28	43'-5" AVG.	27'-10" TO 59'-0"	23	46'-6 ¹ / ₂ " AVG.	33'-10" TO 59'-3"	18	49'-71/2" AVG.	39'-10" TO 59'-5"	13	52'-9" AVG.	45'-10" TO 59'-8"	8	55'-101/2" AVG.	51'-10" TO 59'-11"	
	СН	#4	STR	4	27'-8"		4	33'-8"		4	39'-8"		4	45'-8"		4	51'-10"		
	CL1	#4	BNT	32	4'-4"		38	4'-4"		44	4'-4"		50	4'-4"		56	4'-4"		
	CL2	#4	BNT	32	4'-3"		38	4'-3"		44	4'-3"		50	4'-3"		56	4'-3"		

QUANTITIES											
ITEM	TINU	8' SPAN	10' SPAN	12' SPAN	14' SPAN	16' SPAN					
CLASS AA CONCRETE	CY	64.70	71.80	78.80	85.80	92.80					
REINFORCING STEEL	LB	8530.00	9150.00	9840.00	10540.00	11250.00					

NOTE: QUANTITIES ABOVE ARE FOR ONE END SECTION, WHICH IS COMPRISED OF ONE HEADWALL, ONE APRON, AND TWO WINGWALLS.
INCLUDED IN REINFORCING STEEL PAY ITEM QUANTITY IS THE WEIGHT OF ADDITIONAL RCB BARREL REINFORCING STEEL REQUIRED AS SHOWN.

(1) 4-SETS OF 16-AL2 BARS REQUIRED

REVISIONS

(TOP & BOTT.)

AT2 #4 (TOP) AT3 #5 (BOTT.)

DESCRIPTION

AL2 #4 (TOP & BOTT.

AD1 #4 (TOP & BOTT.)

WL3 #5

1'-2"

DETAIL 'A'

2 2-SETS OF 9-WH2 BARS REQUIRED

(3) INCLUDES 2'-6" LAP

APPROVED BY BRIDGE ENGINEER Heled J. Rusch **DATE** 4/09/09

OKLAHOMA DEPT. OF TRANSPORTATION BRIDGE STANDARD (ENGLISH) RCB CULVERTS - END SECTION DETAILS TRIPLE CELL - 8'-0" HEIGHT - 0°
SHEET NO. 1 OF 2

1999 SPECIFICATIONS

RCB-E3-H8-0-1

00E B-638E