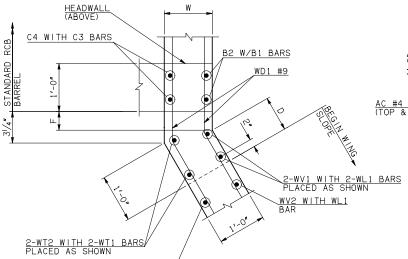


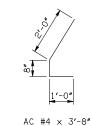
WINGWALL DIMENSIONS								
SPAN W D F								
10'	12"	83/4"	0					
12'	12"	8¾"	0					
14'	12"	83/4"	0					
16'	13"	63/4"	13/4"					
18'	14"	43/4"	31/2"					



## PLAN OF WING AT BARREL

	APRON VARIABLES										
SPAN	DIM. R	DIM. Q	QTY. J	QTY. K	QTY. N						
10'	23'-0"	30'-4"	33	0	26						
12'	27'-0"	32'-4"	4	29	30						
14'	31'-0"	34'-4"	7	26	34						
16'	35'-2"	36'-4"	1 1	22	38						
18'	39'-4"	38'-4"	14	19	42						

WT3 WITH WT1/ BARS



2

AL2 #4 (TOP & BOTT.)			AT2 #4 AT3 #5	(TOP) (BOTT.)
AD1 #4 (TOP & BOTT.)				
1			<u> </u>	
WL3 #5	/	<b>'</b>	1	
1,-0,			-	
5 #4 OP & BOTT.)	1'-2"	AT1	#4	
		(TOP	& BOTT.)	

REVISIONS

DESCRIPTION

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WINGWALL BAR LIST											
ONE WINGWALL SHOWN; TWO REQUIRED											
MARK	SIZE	QTY.	FORM	LENGTH	REMARKS						
WD1	#9	20	BNT	8'-4"							
WH1	#4	2	STR	37 <b>'</b> -9 <b>"</b>							
WH2	#4	20	STR	19'-5" AVG.	3'-10" TO 35'-0"						
WH3	#5	2	STR	38 <b>′</b> -3 <b>″</b>							
WL1	#6	13	BNT	13'-10"							
WL2	#5	31	BNT	10'-3"							
WL3	#5	11	BNT	4'-8 <sup>1</sup> / <sub>2</sub> " AVG.	3'-3" TO 6'-2"						
WT1	#4	28	STR	2'-10"							
WT2	#4	2	STR	11'-0"							
WT3	#4	6	STR	10'-11/2" AVG.	9'-5" TO 10'-10"						
WT4	#4	20	STR	6'-5" AVG.	3'-8" TO 9'-2"						
WT5	#4	11	STR	2'-81/2" AVG.	1'-3" TO 4'-2"						
WV1	#5	2	STR	11'-0"							
WV2	#5	11	STR	10'-1 1/2" AVG.	9'-5" TO 10'-10"						
WV3	#5	20	STR	6'-5" AVG.	3'-8" TO 9'-2"						
U1	#4	1	BNT	3'-0"							

- 1 4-SETS OF 18-AL2 BARS REQUIRED
- 2 2-SETS OF 10-WH2 BARS REQUIRED
- 3 INCLUDES 2'-6" LAP

	APRON AND HEADWALL BAR LIST																	
	ONE APRON AND ONE HEADWALL SHOWN																	
	MARK SIZE FORM 10' SPAN 12' SPAN						14' SPAN			16' SPAN			18' SPAN					
	MARK	3126	FURM	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS
	AC	#4	BNT	4	3 <b>′</b> -8 <b>″</b>		4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"	
	AD1	#4	STR	4	39′-9″		4	39'-9"		4	39'-9"		4	39'-9"		4	39'-9"	
	AL1	#4	STR	52	35 <b>′</b> -5 <b>″</b>		60	35 <b>′</b> -5 <b>"</b>		68	35 <b>′</b> -5 <b>"</b>		76	35′-5 <b>″</b>		84	35′-5″	
1	) AL2	#4	STR	72	17'-2 <sup>1</sup> / <sub>2</sub> " AVG.	2'-6" TO 31'-11"	72	17'-21/2" AVG.	2'-6" TO 31'-11"	72	17'-21/2" AVG.	2'-6" TO 31'-11"	72	17'-21/2" AVG.	2'-6" TO 31'-11"	72	17'-21/2" AVG.	2'-6" TO 31'-11"
	AT1	#4	STR	4	62 <b>'</b> -10 <b>"</b> ③		4	66′-10″ ③		4	70′-10″ ③		4	74'-10" ③		4	78'-10" ③	
	AT2	#4	STR	33	41'-4" AVG.	22'-10" TO 59'-10"	4	64'-7" AVG.	62'-10" TO 66'-4"③	7	66'-10" AVG.	63'-4" TO 70'-4" ③	11	68'-6 <sup>1</sup> / <sub>2</sub> " AVG.	62'-9" TO 74'-4" ③	14	70'-91/2" AVG.	63'-3" TO 78'-4" ③
	AT3	#5	STR	33	41'-4" AVG.	22'-10" TO 59'-10"	4	64'-7" AVG.	62'-10" TO 66'-4"③	7	66'-10" AVG.	63'-4" TO 70'-4" (3)	11	68'-6 <sup>1</sup> / <sub>2</sub> " AVG.	62'-9" TO 74'-4" ③	14	70'-91/2" AVG.	63'-3" TO 78'-4" (3)
	AT4	#4	STR	0			29	43'-0" AVG.	26'-10" TO 59'-2"	26	45'-31/2" AVG.	30'-10" TO 59'-9"	22	46'-11 <sup>1</sup> /2" AVG.	34'-10" TO 59'-1"	19	49'-3" AVG.	38'-10" TO 59'-8"
	AT5	#5	STR	0			29	43'-0" AVG.	26'-10" TO 59'-2"	26	45'-31/2" AVG.	30'-10" TO 59'-9"	22	46'-111/2" AVG.	34'-10" TO 59'-1"	19	49'-3" AVG.	38'-10" TO 59'-8"
	CH	#4	STR	4	22'-8"		4	26'-8"		4	30 <b>′</b> -8 <b>″</b>		4	34'-10"		4	39'-0"	
	CL1	#4	BNT	26	4'-4"		30	4'-4"		34	4'-4"		38	4'-4"		42	4'-4"	
	CL2	#4	BNT	26	4'-3"		30	4'-3"		34	4'-3"		38	4'-3"		42	4'-3"	

QUANTITIES									
ITEM	UNIT	10' SPAN	12' SPAN	14' SPAN	16' SPAN	18' SPAN			
CLASS AA CONCRETE	CY	74.90	80.40	85.80	91.30	96.80			
REINFORCING STEEL	LB	9140.00	9610.00	10080.00	10560.00	11030.00			

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.

APPROVED BY BRIDGE ENGINEER Lebel J. Musch DATE 4/09/09

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

RCB CULVERTS - END SECTION DETAILS
DOUBLE CELL - 9'-0" HEIGHT - 0°

SHEET NO. 1 OF 2

1999 SPECIFICATIONS RCB-E2

RCB-E2-H9-0-1

00E B-612E