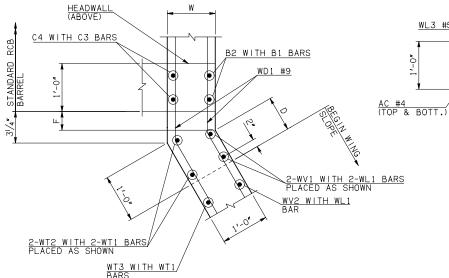


WINGWALL DIMENSIONS										
SPAN W D F										
12'	12"	83/4"	0							
14'	12"	83/4"	0							
16'	13"	63/4"	13/4"							
18'	14"	43/4"	31/2"							
20'	15"	23/4"	5 ¹ /4"							



1'-0"
AC #4 × 3'-8"

PLAN OF WING AT BARREL

APRON VARIABLES									
SPAN	DIM. R	DIM. Q	QTY. J	QTY. K	QTY. N				
12'	27'-0"	37 ' -7 "	13	29	30				
14'	31'-0"	39'-7"	16	26	34				
16'	35′-2″	41'-7"	20	22	38				
18′	39'-4"	43'-7"	23	19	42				
20'	43'-6"	45′-7″	27	15	46				

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AL2 #4 (TOP & BOTT.

AD1 #4 (TOP & BOTT.

WL3 #5

1'-2"

DETAIL 'A'

MARK SIZE QTY. FORM LENGTH

WH3 #5 2 STR 49'-1" WL1 #8 29 BNT 17'-11"

WT2 #4 2 STR 14'-0"

WL2 #5 35 BNT 10'-9" WL3 #5 10 BNT 4'-9\(^2\)'2" AVG. WT1 #4 39 STR 2'-10"

WD1 #9 26 BNT

① 4-SETS	OF	23-AL2	BARS	REQUIRED
2 2-SETS	0F	13-WH2	BARS	REQUIRED

REVISIONS

DESCRIPTION

AT1 #4 (TOP & BOTT.)

3'-6" TO 6'-1"

3 INCLUDES 2'-6" LAP

WT3 #4 14 STR 11'-11'/2" AVG. 10'-1" TO 13'-10" WT4 #4 23 STR 6'-8" AVG. 3'-6" TO 9'-10"

WV2 #6 27 STR 11'-111/2" AVG. 10'-1" TO 13'-10" WV3 #5 23 STR 6'-8" AVG. 3'-6" TO 9'-10"
U1 #4 1 BNT 3'-2"

WT5 #4 10 STR 2'-9½" AVG. 1'-6" TO 4'-1" WV1 #6 2 STR 14-0"

WINGWALL BAR LIST

ONE WINGWALL SHOWN; TWO REQUIRED

8'-4"

APRON	AND	HEADWALL	BAR	LIST
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	APRON AND HEADWALL BAR LIST																			
	ONE APRON AND ONE HEADWALL SHOWN																			
	MADE	SIZE FORM		CLZE FORM			12'	SPAN		14'	SPAN		16' SPAN		18' SPAN			20' SPAN		
	MALL	SIZL	I OINW	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	50'-2"		4	50'-2"		4	50′-2″		4	50'-2"		4	50'-2"			
	AL1	#4	STR	60	44'-6"		68	44'-6"		76	44'-6"		84	44'-6"		92	44'-6"			
1	AL2	#4	STR	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"		
	AT1	#4	STR	4	77'-4" ③		4	81'-4" ③		4	85'-4" ③		4	89'-4" ③		4	93'-4" ③			
	AT2	#4	STR	13	69'-101/2" AVG.	62'-11" TO 76'-10"(3)	16	72'-2" AVG.	63'-6" TO 80'-10" ③	20	73'-10" AVG.	62'-10" TO 84'-10" ③	23	76'-11/2" AVG.	63'-5" TO 88'-10"(3)	27	77'-91/2" AVG.	62'-9" TO 92'-10"③		
	AT3	#5	STR	13	69'-101/2" AVG.	62'-11" TO 76'-10"(3)	16	72'-2" AVG.	63'-6" TO 80'-10" ③	20	73'-10" AVG.	62'-10" TO 84'-10" ③	23	76'-11/2" AVG.	63'-5" TO 88'-10"(3)	27	77'-91/2" AVG.	62'-9" TO 92'-10"③		
	AT4	#4	STR	29	43'-1" AVG.	26'-11" TO 59'-3"	26	45'-41/2" AVG.	30'-11" TO 59'-10"	22	47'-01/2" AVG.	34'-11" TO 59'-2"	19	49'-4" AVG.	38'-11" TO 59'-9"	15		42'-11" TO 59'-1"		
	AT5	#5	STR	29	43'-1" AVG.	26'-11" TO 59'-3"	26	45'-41/2" AVG.	30'-11" TO 59'-10"	22	47'-01/2" AVG.	34'-11" TO 59'-2"	19	49'-4" AVG.	38'-11" TO 59'-9"	15	51'-0" AVG.	42'-11" TO 59'-1"		
	СН	#4	STR	4	26'-8"		4	30'-8"		4	34'-10"		4	39'-0"		4	43'-2"			
	CL1	#4	BNT	30	4'-4"		34	4'-4"		38	4'-4"		42	4'-4"		46	4'-4"			
	CL2	#4	BNT	30	4'-3"		34	4'-3"		38	4'-3"		42	4'-3"		46	4'-3"			

HALF APRON PLAN

QUANTITIES										
ITEM UNIT 12' SPAN 14' SPAN 16' SPAN 18' SPAN 20' SF										
CLASS AA CONCRETE	CY	122.80	130.10	137.70	145.10	152.40				
REINFORCING STEEL	LB	15790.00	16370.00	16970.00	17550.00	18140.00				

HALF APRON REINFORCING

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.

APRON DETAIL

Heled J. Musch APPROVED BY BRIDGE ENGINEER **DATE** 4/09/09 OKLAHOMA DEPT. OF TRANSPORTATION

BRIDGE STANDARD (ENGLISH) RCB CULVERTS - END SECTION DETAILS DOUBLE CELL - 12'-0" HEIGHT - 0° SHEET NO. 1 OF 2

1999 SPECIFICATIONS

RCB-E2-H12-0-1

00E B-618E