

APRON DETAIL

18' 15" 2³/₄" 5¹/₄" 20' 15" 2³/₄" 5¹/₄" AD1 #4 (TOP & BOTT. HEADWALL (ABOVE) C2 WITH C1 BARS B2 WITH B1 BARS AC #4 (TOP & BOTT.) WV2 WITH WL1 2-WT2 WITH 2-WT1 BARS, PLACED AS SHOWN WT3 WITH WT1 BARS

PLAN OF WING AT BARREL

0

0

0

35

33

20

22

APRON VARIABLES

36

36

36

1

SPAN DIM. R DIM. Q QTY. J QTY. K QTY. N

10' 12'-0" 26'-7"

12' 14'-0" 27'-7"

16' 18'-4" 29'-7"

18' 20'-6" 30'-7"

20' 22'-6" 31'-7"

14' 16'-2" 28'-7" 36

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AC #4 × 3'-8'	

WINGWALL DIMENSIONS SPAN W D

10' 12" 8¾" 0 12' 12" 8¾" 0 14' 13" 6¾" 1¾" 16' 14" 4¾" 3½"

AL2 #4 (TOP & BOTT,

WL3 #5

WINGWALL BAR LIST ONE WINGWALL SHOWN; TWO REQUIRED MARK SIZE QTY. FORM | LENGTH | REMARKS WD1 #9 22 BNT 8'-4" WH1 #4 2 STR 41'-2" ② WH2 #4 22 STR 21'-1\/2" AVG. 3'-10" TO 38'-5" WH3 #5 2 STR 41'-9" WL1 #7 21 BNT 14'-5" WL2 #5 31 BNT 10'-3" WL3 #5 10 BNT 4'-81/2" AVG. 3'-5" TO 6'-0" WT1 #4 32 STR 2'-10" WT2 #4 2 STR 12'-0" WT3 #4 10 STR 10'-61/2" AVG. 9'-3" TO 11'-10" WT4 #4 20 STR 6'-3" AVG. 3'-6" TO 9'-0" WT5 #4 10 STR 2'-8/2" AVG. 1'-5" TO 4'-0" WV1 #5 2 STR 12'-0" WV2 #5 19 STR 10'-6\(\frac{1}{2}\)" AVG. 9'-3" TO 11'-10" WV3 #5 20 STR 6'-3" AVG. 3'-6" TO 9'-0" U1 #4 1 BNT

1 4-SETS OF 20-AL2 BARS REQUIRED 2 2-SETS OF 11-WH2 BARS REQUIRED

DETAIL 'A'

REVISIONS

DESCRIPTION

AT1 #4 (TOP & BOTT.)

APRON AND HEADWALL BAR LIST

ONE APRON AND ONE HEADWALL SHOWN 20' SPAN 10' SPAN 12' SPAN 16' SPAN 18' SPAN 14' SPAN MARK SIZE FORM LENGTH REMARKS QTY. LENGTH REMARKS LENGTH REMARKS LENGTH REMARKS QTY. LENGTH REMARKS QTY. LENGTH REMARKS AC #4 BNT 3'-8" 3'-8" 3'-8" 3'-8" 3'-8" 3'-8" AD1 #4 STR 43'-2" 43'-2" 43'-2" 43'-2" 43'-2" 43'-2" 38'-5" AL1 #4 STR 28 38'-5" 32 38'-5" 36 38'-5**"** 40 38'-5**"** 44 48 38'-5" 1 AL2 #4 STR 80 18'-111/2" AVG. 2'-6" TO 35'-5" 80 18'-11\(2'' \) AVG. 2'-6" TO 35'-5" 80 18'-11¹/₂" AVG. 2'-6" TO 35'-5" 18'-11¹/₂" AVG. 2'-6" TO 35'-5" 80 18'-111/2" AVG. 2'-6" TO 35'-5" 80 18'-11¹/₂" AVG. 2'-6" TO 35'-5" 80 63'-4" (3 AT1 #4 STR 4 52'-10" 4 | 54'-10" 4 65'-4" ③ 4 56'-10" 4 58'-10" 4 3 63'-8" AVG. 62'-6" TO 64'-10" (3 36 32'-1½" AVG. 11'-11" TO 52'-4" 36 34'-1½" AVG. 13'-11" TO 54'-4" 36 36'-1/2" AVG. 15'-11" TO 56'-4" 36 38'-1¹/₂" AVG. 17'-11" TO 58'-4" 62'-10" (AT3 #5 STR 36 32'-11/2" AVG. 11'-11" TO 52'-4" 34'-1¹/₂" AVG. 13'-11" TO 54'-4" 36 36 36'-1¹/₂" AVG. 15'-11" TO 56'-4" 36 38'-1¹/₂" AVG. 17'-11" TO 58'-4" 62'-10**"** (3) 3 | 63'-8" AVG. | 62'-6" TO 64'-10" (3 AT4 #4 STR 0 0 0 0 35 39'-6¹/₂" AVG. 19'-11" TO 59'-2" 33 40'-41/2" AVG. 21'-11" TO 58'-10" 35 39'-6'/₂" AVG. 19'-11" TO 59'-2" 33 40'-4'/₂" AVG. 21'-11" TO 58'-10" AT5 #5 STR 0 CH #4 STR 4 11'-8" 4 13'-8" 4 15'-10" 18'-0" 4 20'-2" 4 22'-2" CL1 #4 BNT 4'-4" 4'-4" 4'-4" 4'-4" 4'-4" 4'-4" 14 18 20 22 24 16 4'-3" 4'-3" 4'-3" CL2 #4 BNT 4'-3" 4'-3" 24 4'-3" 14 16 18 20 22

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

3 INCLUDES 2'-6" LAP

BRIDGE STANDARD (ENGLISH) RCB CULVERTS - END SECTION DETAILS SINGLE CELL - 10'-0" HEIGHT - 0° SHEET NO. 1 OF 2

1999 SPECIFICATIONS

RCB-E1-H10-0-1

CLASS AA CUNCRETE	CY	69.00	12.00	75.00	17.90	80.90	83.80	
REINFORCING STEEL	LB	9520.00	9770.00	10010.00	10260.00	10520.00	10770.00	
NOTE: QUANTITIES AROVE ARE FOR ONE END SE	CTION	MITCH 10	COMPRISED	OE ONE HEA	DWALL ONE	ADDON AND	TWO WINGW	A I I

QUANTITIES

UNIT 10'SPAN

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.

12' SPAN 14' SPAN 16' SPAN 18' SPAN

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