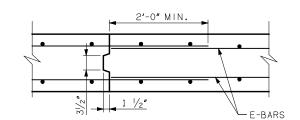
DESCRIPTION	REVISIONS	DATE
REVISED BI &	ADDED A3	

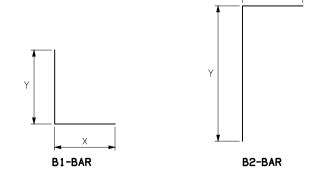
	SE	CTIO	)N																			REI	NFOF	RC I NG	STEE	iL.																				
	DIM	ENSI	ONS			A	1-BARS	*		A2	2-BARS			AG	S-BARS				B1-BAR	rs				B2	-BARS			(	1-BARS			C2-BARS			C3-BAR	S		C4	4-BARS		AT	1-BAR 12" M	MAX.	AT 1	2-BAR 12" M	
s	н	т	U	w	z K	SPA	LENGTH	WEIGH PER FT.		SPA	LENGTH	WEIGH PER FT.		SPA	LENGTH	WEIGHT PER FT.	SIZE	5 "X"	*Y*	LENG1	WEIGH H PER FT.	💆	SPA	"X"	<b>"</b> Y"	LENGTH	WEIGHT PER FT.	SIZE	LENGTH	WEIGH PER FT.	SIZE	LENGTH	WEIGH PER FT.		LENGT	WEIGH PER FT.	SIZE	SPA	LENGTH	WEIGHT PER FT.	NO.	SIZE	PER FT.	NO.	SIZE	VEIGH PER FT.
20′	10'	18"	19"	15"	12"   #8	6"	70'-11 <b>'</b>	757.	4 #9	6"	33 <b>′</b> -3 <b>″</b>	452.2	#4	6"	18 <b>′</b> -4 <b>″</b>	98.0	<b>#6</b> 6	<b>"</b> 3′÷2	' 3′÷5	<b>"</b> 6′-7	39.6	S <sup>-</sup> #6	6"	3'-2 <b>"</b>	11′-4″	14′-6″	1.78	<b>#4</b> 12'	2′-8″	7.1	<b>#4</b>	12" 11'-4"	30.3	#4 1	2" 2'-8"	3.6	#4	12"	11 <b>′</b> -4″		272		181.7	80	#4	53.4
20'	11'	18"	19"	15"	12" #8	6"	70′-11″	757.	4 #9	6"	33'-4"	453.3	3 #4	6"	18'-4"	98.0	#6 6	<b>"</b> 3'-2	' 3'-5	<b>"</b> 6′-7	39.6	6 #6	6 <b>"</b>	3'-2"	12'-4"	15′-6″	93.1	#4 12	2'-8"	7.1	#4	12" 12'-4"	33.0	#4 17	2" 2'-8"	3.6	#4	12"	12'-4"	16.5	272	#4 1	181.7	88 :	#4	58.8
20′	12'	18"	19"	15"	12" #8	6"	70′-11″	757.	4 #9	6"	33 <b>′</b> -5 <b>″</b>	454.5	#4	6"	18'-4"	98.0	#7 6	<b>"</b> 3'-2	' 4'-2	<b>"</b> 7'-4	60.0	) #7	6"	3'-2"	13'-4"	16'-6 <b>"</b>	134.9	#4 12	2'-8"	7.1	#4	12" 13'-4"	35.6	#5 13	2" 3'-0"	6.3	#5	12"	13'-4"	27.8	272	#4 1	181.7	96	#4	64.1
20′	15'	18"	19"	15"	12" #8	6"	70'-11"	757.	4 #9	6"	33′-9″	459.0	#4	6"	18'-4"	98.0	#7 6	<b>"</b> 3′-5	' 4'-2	<b>"</b> 7'-7	62.0	) #7	6"	3′-5″	16'-4 <b>"</b>	19'-9"	161.5	#4 12	2′-8″	7.1	#4	12" 16'-4"	43.6	#5 6	<b>"</b> 3'-0 <b>"</b>	12.5	#5	6 <b>"</b>	16'-4"	68.1	272	#4 1	181.7 1	120 :	#4	80.2
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\* INCLUDES A 6'-9" LAP SPLICE LENGTH. SPLICE MUST BE LOCATED WITHIN CENTER CELL.



TRANSV. CONSTR. JOINT

- A3



## BAR BEND DIAGRAMS

**BARREL SECTION** 

NOTE: ALL "X" DIMENSIONS ARE HORIZONTAL IN BARREL SECTION. ALL "Y" DIMENSIONS ARE VERTICAL IN BARREL SECTION.

SECT DIMEN		F0	TITIES PER OT OF
s	H	CONC.	REINF. (LB.)
20′	10'	9.03	1725.5
20′	11'	9.20	1742.1
20′	12'	9.37	1827.4
20′	15′	9.87	1931.1

A3 —

## DESIGN DATA:

- 1. DESIGNED IN ACCORDANCE WITH 1998 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIM SPECIFICATIONS FROM 1999, 2000, 2001 AND 2002.
- 2. DESIGNED FOR HL-93 LOADING AND ODOT OVERLOAD TRUCK.
- 3. MATERIALS:

CONCRETE (CLASS AA) f'c = 4 KSI REINFORCING STEEL fy = 60 KSI

## **GENERAL NOTES:**

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- ALL CONCRETE EDGES SHALL HAVE A 1 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.
- ALL REINFORCING STEEL SHALL HAVE A 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.
- 4. THE QUANTITY FOR REINFORCING STEEL DOES NOT INCLUDE LAP SPLICES OF E1-BARS OR E2-BARS IN THE LENGTH OF THE BARREL OR AT TRANSVERSE CONSTRUCTION JOINTS. THE SPLICE LENGTH FOR E-BARS SHALL BE 24" MINIMUM. THE NUMBER OF SPLICES USED IS TO BE APPROVED BY THE ENGINEER. REINFORCING STEEL FOR SPLICES SHALL NOT BE MEASURED FOR PAYMENT, AND ALL COSTS WILL BE INCLUDED IN THE UNIT BID PRICE FOR REINFORCING STEEL.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN ALL CULVERTS 100 FT. OR MORE IN LENGTH. JOINTS SHALL BE SPACED AT 60 FT. MAX.
- REINFORCING STEEL SHALL BE CONTINUOUS THROUGH THE TRANSVERSE CONSTRUCTION JOINT AND EXTEND A MIN. OF 24" INTO ADJACENT SECTION.

BASIS OF PAYMENT								
ITEM NO.	ITEM	UNIT						
509.06 (A)	CLASS AA CONCRETE	C.Y.						
511.06 (A)	REINFORCING STEEL	LB.						

NOTE: NUMBER AND SPACING OF E-BARS SHOWN MAY NOT BE REPRESENTATIVE SCHEDULE ABOVE FOR NUMBER AND SPACING OF E-BARS.

CONST. JT. (TYP)

OF ACTUAL CULVERT SECTIONS, SEE

APPROVED BY BRIDGE ENGINEER

DATE 3-13-08

OKLAHOMA DEPT. OF TRANSPORTATION BRIDGE STANDARD (ENGLISH) RCB CULVERTS - BARREL DETAILS

20'-0" SPAN - TRIPLE CELL 2 FT. TO 8 FT. FILL

1999 SPECIFICATIONS RCB-C3-20(2-8)

B-562E