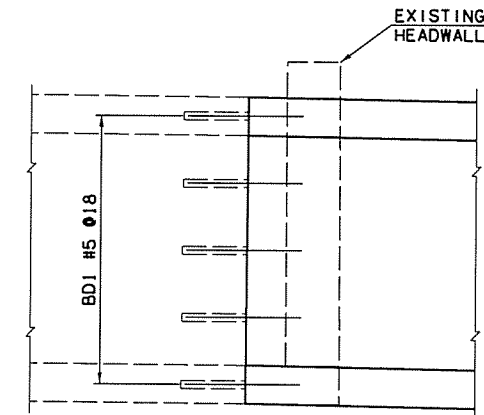


SECTION DIMENSIONS					BARREL REINFORCING STEEL																					
					A1-BARS				B1-BARS				B2-BARS				E1-BARS AT 12" MAX.			E2-BARS AT 12" MAX.						
S	H	T	U	W	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	"X"	"Y"	LENGTH	WEIGHT PER FT.	SIZE	SPA.	"X"	"Y"	LENGTH	WEIGHT PER FT.	QTY.	SIZE	WEIGHT PER FT.	QTY.	SIZE	WEIGHT PER FT.
7'	6'	11"	12"	10"	#7	6"	8'-4"	68.2	#5	6"	0'-10"	2'-5"	3'-3"	13.6	#5	6"	0'-10"	6'-9"	7'-7"	31.6	28	#5	29.2	12	#4	8.0

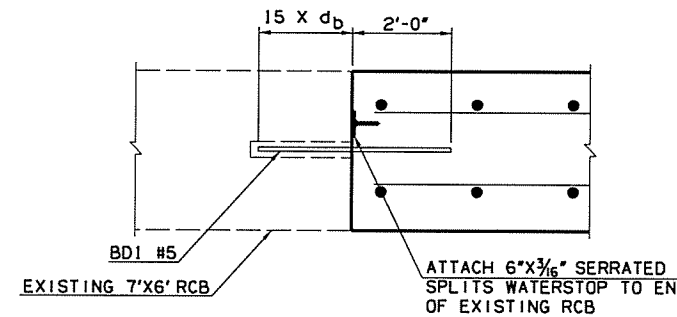
NOTE:

- CONTRACTOR SHALL FIELD VERIFY EXISTING BOX DIMENSIONS PRIOR TO CONSTRUCTION. IF THE EXISTING BOX DIMENSIONS DO NOT MATCH THE NEW BOX DIMENSIONS, THEN THE CONTRACTOR SHALL ALIGN THE INTERIOR WALLS OF THE NEW BOX WITH THE EXISTING STRUCTURE AND TAPER BOTH SIDES OF THE NEW BOX EQUALLY TO MATCH THE EXISTING STRUCTURE.
- CONTRACTOR SHALL PROVIDE A WATERSTOP ALONG THE BOTTOM, BOTH SIDES AND TOP OF THE EXISTING STRUCTURE AND THE NEW BOX STRUCTURE. COST OF WATERSTOP MATERIALS AND LABOR SHALL BE INCLUDED IN THE BID PRICE PER CY OF "CLASS AA CONCRETE".
- CONTRACTOR SHALL DRILL AND EPOXY GROUT A MINIMUM OF (15x d_b) OR AS PER MANUFACTURER'S SPECIFICATIONS. ALL COST FOR DRILL AND EPOXY GROUT SHALL BE INCLUDED IN THE BID PRICE PER CY OF "CLASS AA CONCRETE".
- ALIGN DOWELS VERTICALLY IN CENTER OF EXISTING RCB WALLS.
- COST OF REMOVAL OF EXISTING RCB HEADWALL AND 1'-0" OF BARREL SHALL BE INCLUDED IN THE BID PRICE PER CY OF "CLASS AA CONCRETE".

SECTION DIMENSIONS		BARREL QUANTITIES	
S	H	PER FOOT OF BARREL	
		CONCRETE (C.Y.)	REINFORCING (LBS.)
7'	6'	0.99	150.6



ELEVATION VIEW RCB WALL
SCALE: NONE



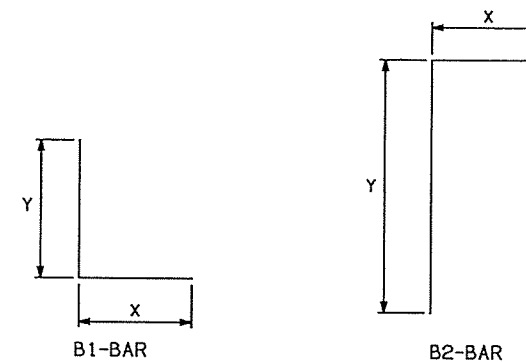
PLAN VIEW RCB WALL
SCALE: NONE

DESIGN DATA:

- DESIGNED IN ACCORDANCE WITH 2007 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIM SPECIFICATIONS FROM 2008.
- DESIGNED FOR HL-93 LOADING AND ODOT OVERLOAD TRUCK.
- MATERIALS:
CONCRETE (CLASS AA) $f'_c = 4$ KSI
REINFORCING STEEL $f_y = 60$ KSI

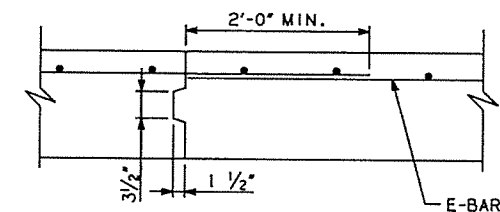
GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 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.
- 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.

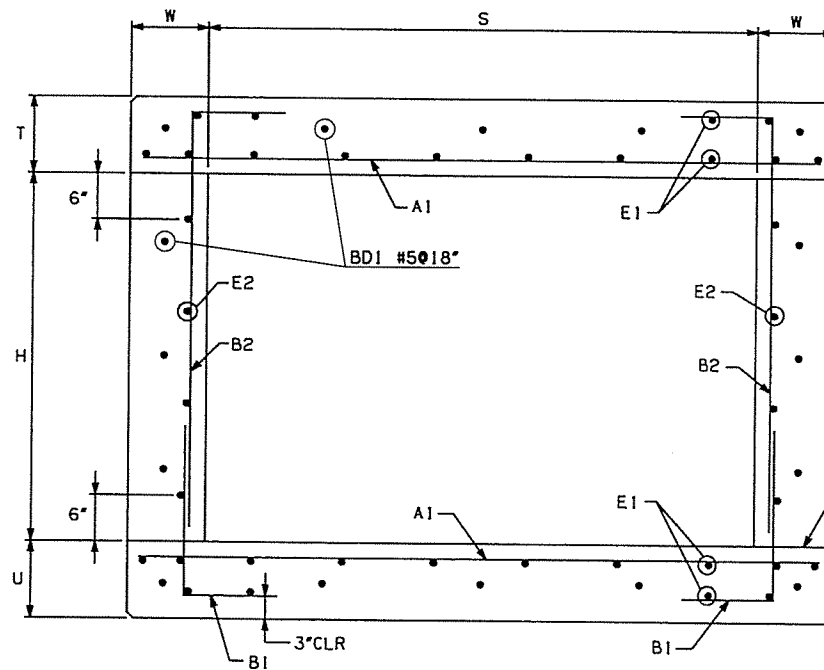


BAR BEND DIAGRAMS

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



TRANSV. CONSTR. JOINT



BARREL SECTION

NOTE: NUMBER AND SPACING OF E-BARS SHOWN MAY NOT BE REPRESENTATIVE OF ACTUAL CULVERT SECTIONS, SEE SCHEDULE ABOVE FOR NUMBER AND SPACING OF E-BARS.

CONST. JT. (TYP.)

Design	KSJ	6/16	US 169	NOWATA COUNTY
Drawn	WZB	6/16		
Checked	RAH	6/16		
Approved	SAK	6/16		
Squad	BENHAM			

**RCB EXTENSION
7'X6' RCB DETAILS
(SHEET 2 OF 6)**

Job Piece No. 27092(04) Sheet No. 87