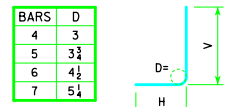


VARIABLE DIMENSIONS AND QUANTITIES FOR 8 x 8 BARREL SECTIONS

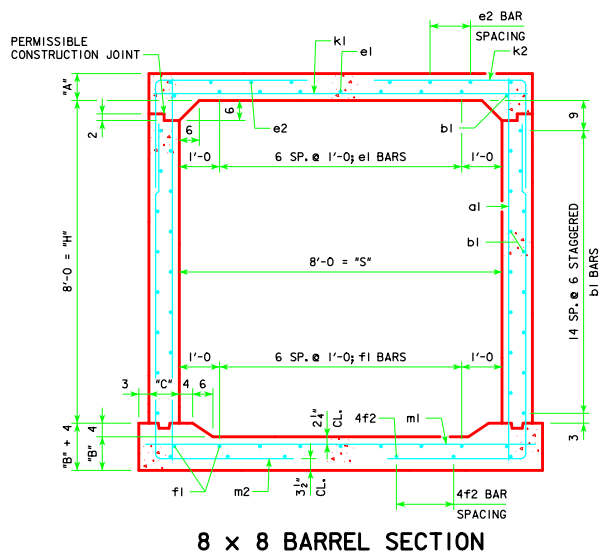
DIMENSIONS										BAR LIST																		QUANTITIES																					
FILL	S	H	A	B	C	D	SIZE	SP.	L	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	CONCRETE (CY/FT)	STEEL (LB/FT)											
0	1	2	3	4-7	8-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55																			SLAB	FLOOR	WALLS	TOTAL													
0	8	8	12.5	11	9	9	4	9	9'-10	4	6	32	5	12	7	4	13	8	4	12	9	4	13	8	6	9	9'-2	5	12	8'-9	5'-6	3'-3	--	--	5	6	9'-8	6	12	14'-0	5'-8	8'-4	--	--	0.399	0.376	0.424	1.199	167.26
1	8	8	10.5	11	9	9	4	9	9'-8	4	6	32	5	12	7	4	13	8	4	12	9	4	13	8	6	9	9'-2	4	6	8'-7	5'-6	3'-1	--	--	5	6	9'-8	4	6	13'-10	5'-6	8'-4	--	--	0.340	0.376	0.424	1.140	162.61
2	8	8	8	10	9	9	5	12	9'-5	4	6	32	4	12	7	4	13	8	4	12	9	4	13	8	7	9	9'-2	5	9	8'-4	5'-6	2'-10	--	--	5	6	9'-8	5	9	12'-11	4'-8	8'-3	--	--	0.267	0.345	0.424	1.036	182.47
3	8	8	8	10	9	9	5	12	9'-5	4	6	32	4	12	7	4	13	8	4	12	9	4	13	8	5	6	9'-2	5	9	7'-9	4'-11	2'-10	--	--	6	6	9'-8	5	9	12'-2	3'-11	8'-3	5	9'-8	0.267	0.345	0.424	1.036	169.76
4-7	8	8	8	10	9	9	4	9	9'-5	4	6	32	4	12	7	4	13	8	4	12	9	4	17	6	6	9	9'-2	4	6	6'-7	3'-9	2'-10	4	9'-2	5	6	9'-8	4	6	11'-8	3'-5	8'-3	4	9'-8	0.267	0.345	0.424	1.036	147.61
8-10	8	8	8	10	9	9	5	12	9'-5	4	6	32	4	12	7	4	14	6	4	12	9	4	14	6	5	6	9'-2	5	9	6'-0	3'-0	3'-0	5	9'-2	7	9	9'-8	5	9	11'-3	3'-0	8'-3	5	9'-8	0.267	0.345	0.424	1.036	158.00
11-15	8	8	8	10	9	9	4	12	9'-5	4	6	32	4	12	7	4	13	6	4	12	9	4	12	6	6	6	9'-2	5	6	5'-8	2'-10	2'-10	5	9'-2	6	6	9'-8	5	6	10'-11	2'-8	8'-3	5	9'-8	0.267	0.345	0.424	1.036	181.05
16-20	8	8	9	10.5	9	9	4	9	9'-6	4	6	32	4	12	7	4	12	6	4	12	9	4	13	6	8	9	9'-2	6	9	5'-11	2'-8	3'-3	6	9'-2	7	6	9'-8	6	9	11'-1	2'-9	8'-4	6	9'-8	0.296	0.361	0.424	1.081	203.63
21-25	8	8	10	12.5	9.5	9	4	12	9'-9	4	6	32	4	12	7	4	11	6	4	12	9	4	12	6	7	6	9'-3	5	6	5'-7	2'-7	3'-0	5	9'-3	7	6	9'-9	5	6	11'-2	2'-8	8'-6	5	9'-9	0.329	0.427	0.447	1.203	203.63
26-30	8	8	11	13.5	10.5	9	5	12	9'-11	4	6	32	4	12	7	4	12	6	4	12	9	4	12	6	7	6	9'-5	5	6	5'-10	2'-9	3'-1	5	9'-5	7	6	9'-11	5	6	11'-5	2'-10	8'-7	5	9'-11	0.367	0.465	0.496	1.328	215.03
31-35	8	8	12.5	15	11.5	6	4	6	10'-2	4	6	32	4	12	7	4	12	6	4	12	9	4	13	6	7	6	9'-7	6	9	6'-5	2'-10	3'-7	6	9'-7	7	6	10'-1	6	9	11'-8	3'-0	8'-8	6	10'-1	0.421	0.522	0.542	1.485	225.63
36-40	8	8	13.5	16	12.5	9	6	9	10'-4	4	6	32	4	12	7	4	12	6	4	12	9	4	13	6	7	6	9'-9	6	9	6'-8	3'-0	3'-8	6	9'-9	7	6	10'-3	6	9	11'-10	3'-1	8'-9	6	10'-3	0.462	0.565	0.589	1.616	243.29
41-45	8	8	14.5	17	13.5	9	6	12	10'-6	4	6	32	4	12	7	4	14	6	4	12	9	4	13	6	7	6	9'-11	5	6	6'-10	3'-5	3'-5	5	9'-11	7	6	10'-5	5	6	12'-1	3'-3	8'-10	5	10'-5	0.503	0.608	0.636	1.747	237.39
46-50	8	8	15	18	14	9	6	9	10'-8	4	6	32	4	12	7	4	14	6	4	12	9	4	14	6	9	9	10'-0	5	6	6'-10	3'-5	3'-5	5	10'-0	9	9	10'-6	5	6	12'-3	3'-4	8'-11	5	10'-6	0.524	0.647	0.659	1.830	261.74
51-55	8	8	16	18.5	15	9	4	9	10'-9	4	6	32	4	12	7	4	13	6	4	12	9	4	14	6	9	9	10'-2	7	9	7'-8	3'-4	4'-4	7	10'-2	9	9	10'-8	7	9	12'-5	3'-5	9'-0	7	10'-8	0.566	0.675	0.706	1.947	274.53

BENT BAR DETAIL



K2 & m2

NOTE:
ALL DIMENSIONS ARE OUT TO OUT.
D = PIN DIAMETER.



NOTES:

- DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET RCB G2-12.
- THE K2 AND m2 BARS HORIZONTAL LEGS MAY LAP IN LOW FILL SITUATIONS.
- DIMENSIONS *A*, *B*, *C*, *D*, AND *SP.* LISTED IN THE BAR LIST ARE IN INCHES.

LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER <i>Thomas E. Mc Donald</i>	<p>Iowa Department of Transportation Highway Division</p> <p>STANDARD DESIGN SINGLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012</p>	<p>CULVERT BARREL DETAILS</p> <p>8 x 8 BARREL SECTIONS</p>
		<p>RCB 8-8-12</p>