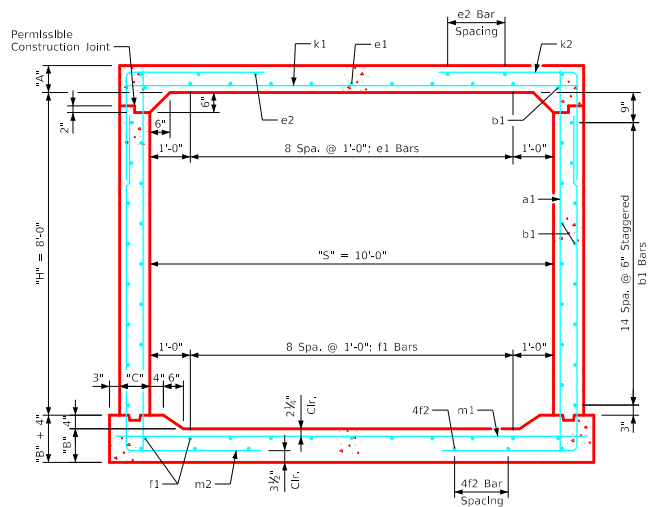
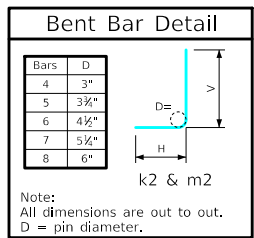




Variable Dimensions and Quantities for 10' x 8' Barrel Sections

Dimensions										Bar List																		Quantities																					
Fill	S	H	A	B	C	D	a1		b1		e1		e2		f1		f2		k1		k2		k9		m1		m2		m9		Concrete (CY/FT)				Steel (LB/FT)														
0	10	8	12.5	12.5	9	6	Size	Sp.	L	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Slab	Floor	Walls	Total												
0	10	8	12.5	12.5	9	6	4	6	10'-0	4	6	32	4	12	9	4	17	8	4	12	11	4	16	8	5	6	11'-2	4	6	9'-6	6'-5	3'-1	-	-	7	9	11'-8	4	6	13'-3	4'-9	8'-6	4	11'-8	0.476	0.500	0.424	1.400	190.58
1	10	8	12	12	9	6	4	6	9'-11	4	6	32	4	12	9	4	17	8	4	12	11	4	17	8	5	6	11'-2	4	6	9'-6	6'-5	3'-1	-	-	7	9	11'-8	4	6	13'-3	4'-10	8'-5	4	11'-8	0.458	0.481	0.424	1.363	190.37
2-3	10	8	8	10	9	9	5	12	9'-5	4	6	32	5	12	9	4	15	8	4	12	11	4	13	8	6	6	11'-2	6	9	7'-10	4'-4	3'-6	6	11'-2	6	6	11'-8	6	9	12'-2	3'-11	8'-3	6	11'-8	0.316	0.407	0.424	1.147	223.61
4-6	10	8	8	10	9	9	4	12	9'-5	4	6	32	4	12	9	4	17	6	4	12	11	4	16	6	7	9	11'-2	5	6	6'-10	3'-5	3'-5	5	11'-2	6	6	11'-8	5	6	11'-7	3'-4	8'-3	5	11'-8	0.316	0.407	0.424	1.147	201.74
7-8	10	8	8	10.5	9	9	4	12	9'-5	4	6	32	4	12	9	4	15	6	4	12	11	4	14	6	6	6	11'-2	5	6	6'-2	3'-1	3'-1	5	11'-2	6	6	11'-8	5	6	11'-4	3'-0	8'-4	5	11'-8	0.316	0.425	0.424	1.165	199.97
9-10	10	8	8.5	10.5	9	9	4	9	9'-6	4	6	32	4	12	9	4	14	6	4	12	11	4	15	6	6	6	11'-2	6	9	6'-6	3'-0	3'-6	6	11'-2	7	6	11'-8	6	9	11'-5	3'-1	8'-4	6	11'-8	0.334	0.425	0.424	1.183	218.58
11-15	10	8	9	11.5	9	9	5	12	9'-7	4	6	32	4	12	9	4	13	6	4	12	11	4	13	6	7	6	11'-2	6	9	6'-5	2'-10	3'-7	6	11'-2	7	6	11'-8	6	9	11'-3	2'-10	8'-5	6	11'-8	0.352	0.463	0.424	1.239	233.29
16-20	10	8	10.5	13	9	6	4	6	9'-10	4	6	32	4	12	9	4	12	6	4	12	11	4	12	6	9	9	11'-2	6	9	6'-5	2'-8	3'-9	6	11'-2	8	6	11'-8	6	9	11'-2	2'-8	8'-6	6	11'-8	0.405	0.518	0.424	1.347	260.21
21-25	10	8	12.5	15	9.5	6	4	6	10'-2	4	6	32	4	12	9	4	12	6	4	12	11	4	12	6	9	9	11'-3	6	9	6'-7	2'-8	3'-11	6	11'-3	8	6	11'-9	6	9	11'-5	2'-9	8'-8	6	11'-9	0.481	0.597	0.447	1.525	263.68
26-30	10	8	14	16.5	10.5	9	6	12	10'-5	4	6	32	4	12	9	4	12	6	4	12	11	4	13	6	8	6	11'-5	6	9	6'-10	2'-10	4'-0	6	11'-5	8	6	11'-11	6	9	11'-9	2'-11	8'-10	6	11'-11	0.544	0.662	0.496	1.702	280.42
31-35	10	8	15	17.5	11.5	9	4	9	10'-7	4	6	32	4	12	9	4	14	6	4	12	11	4	14	6	8	6	11'-7	8	12	8'-1	3'-3	4'-10	8	11'-7	8	6	12'-1	8	12	12'-2	3'-3	8'-11	8	12'-1	0.591	0.711	0.542	1.844	309.39
36-40	10	8	16.5	19	12.5	9	6	9	10'-10	4	6	32	4	12	9	4	13	6	4	12	11	4	14	6	8	6	11'-9	5	6	7'-0	3'-2	3'-10	5	11'-9	8	6	12'-3	5	6	12'-3	3'-3	9'-0	5	12'-3	0.657	0.780	0.589	2.026	298.61
41-45	10	8	18	20.5	13.5	9	4	9	11'-1	4	6	32	4	12	9	4	16	6	4	12	11	4	14	6	8	6	11'-11	7	9	8'-5	3'-9	4'-8	7	11'-11	8	6	12'-5	7	9	12'-7	3'-5	9'-2	7	12'-5	0.725	0.851	0.636	2.212	316.26
46-50	10	8	19	21.5	14	9	6	9	11'-3	4	6	32	4	12	9	4	14	6	4	12	11	4	15	6	9	6	12'-0	5	6	7'-5	3'-5	4'-0	5	12'-0	9	6	12'-6	5	6	12'-9	3'-6	9'-3	5	12'-6	0.769	0.897	0.659	2.325	343.11
51-55	10	8	20	22.5	15	9	5	12	11'-5	4	6	32	4	12	9	4	16	6	5	12	11	4	15	6	9	6	12'-2	7	9	8'-8	3'-10	4'-10	7	12'-2	9	6	12'-8	7	9	13'-0	3'-8	9'-4	7	12'-8	0.819	0.950	0.706	2.475	368.21



- Notes:**
1. Dimensions listed on this sheet to be used in conjunction with Sheet RCB G3-20.
 2. The k2 and m2 bars horizontal legs may lap in low fill situations.
 3. Fill, dimensions "S" and "H" are in feet.
 4. Dimensions "A", "B", "C", "D", and "Sp." listed in the bar list are in inches.
 5. Dimensions "L", "H", "V" are in feet and inches.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Standard Design Single Reinforced Concrete Box Culverts July, 2020
Culvert Barrel Details 10' x 8' Barrel Sections		RCB 10-8-20

ENGLISHLRFDDESIGNEDSINGLECULVERTS.DGN - RCB 10-8-20 - THIS SHEET ISSUED 07-2020