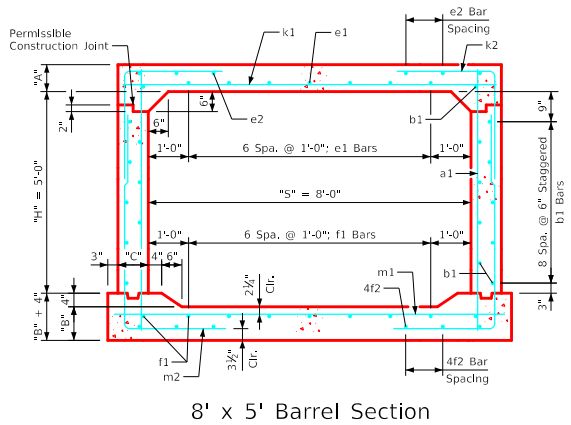
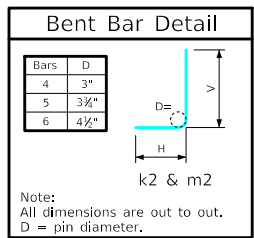


Variable Dimensions and Quantities for 8' x 5' Barrel Sections

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	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	Size	Sp.	L	Size	Sp.	No.	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	8	5	12.5	11	9	9	4	9	6'-10	4	6	20	5	12	7	4	18	6	4	12	9	4	16	6	6	9	9'-2	4	6	6'-8	3'-7	3'-1	4	9'-2	6	9	9'-8	4	6	8'-8	3'-4	5'-4	4	9'-8	0.399	0.376	0.257	1.032	128.29
1	8	5	10.5	10.5	9	9	4	9	6'-8	4	6	20	5	12	7	4	17	6	4	12	9	4	15	6	6	9	9'-2	4	6	6'-5	3'-6	2'-11	4	9'-2	6	9	9'-8	4	6	8'-5	3'-1	5'-4	4	9'-8	0.340	0.361	0.257	0.958	126.16
2	8	5	8	10	9	9	5	12	6'-5	4	6	20	5	12	7	4	13	6	4	12	9	4	12	6	6	9	9'-2	4	6	5'-6	2'-9	2'-9	4	9'-2	5	6	9'-8	4	6	7'-11	2'-8	5'-3	4	9'-8	0.267	0.345	0.257	0.869	125.61
3	8	5	8	10	9	9	4	9	6'-5	4	6	20	4	12	7	4	13	6	4	12	9	4	11	6	6	9	9'-2	4	6	5'-6	2'-9	2'-9	4	9'-2	5	6	9'-8	4	6	7'-9	2'-6	5'-3	4	9'-8	0.267	0.345	0.257	0.869	119.87
4-7	8	5	8	10	9	9	4	9	6'-5	4	6	20	4	12	7	4	13	6	4	12	9	4	11	6	6	9	9'-2	4	6	5'-6	2'-9	2'-9	4	9'-2	5	6	9'-8	4	6	7'-9	2'-6	5'-3	4	9'-8	0.267	0.345	0.257	0.869	119.87
8-10	8	5	8	10	9	9	4	9	6'-5	4	6	20	4	12	7	4	13	6	4	12	9	4	10	6	6	9	9'-2	4	6	5'-6	2'-9	2'-9	4	9'-2	5	6	9'-8	4	6	7'-7	2'-4	5'-3	4	9'-8	0.267	0.345	0.257	0.869	119.42
11-15	8	5	8	10	9	6	4	6	6'-5	4	6	20	4	12	7	4	10	6	4	12	9	4	10	6	6	6	9'-2	4	6	5'-0	2'-3	2'-9	4	9'-2	6	6	9'-8	4	6	7'-6	2'-3	5'-3	4	9'-8	0.267	0.345	0.257	0.869	140.74
16-20	8	5	8.5	11	9	9	4	12	6'-6	4	6	20	4	12	7	4	10	6	4	12	9	4	9	6	6	6	9'-2	5	6	5'-5	2'-3	3'-2	5	9'-2	7	6	9'-8	5	6	7'-6	2'-2	5'-4	5	9'-8	0.282	0.376	0.257	0.915	164.24
21-25	8	5	10	12.5	9	9	4	12	6'-9	4	6	20	4	12	7	4	9	6	4	12	9	4	18	4	7	6	9'-2	5	6	5'-5	2'-2	3'-3	5	9'-2	7	6	9'-8	5	6	7'-7	2'-1	5'-6	5	9'-8	0.326	0.422	0.257	1.005	173.68
26-30	8	5	11	13.5	9	9	4	9	6'-11	4	6	20	4	12	7	4	9	6	4	12	9	4	18	4	7	6	9'-2	5	6	5'-6	2'-2	3'-4	5	9'-2	7	6	9'-8	5	6	7'-8	2'-1	5'-7	5	9'-8	0.355	0.453	0.257	1.065	177.50
31-35	8	5	12.5	14.5	9	6	4	6	7'-2	4	6	20	4	12	7	4	11	6	4	12	9	4	11	6	7	6	9'-2	6	12	6'-3	2'-5	3'-10	6	9'-2	7	6	9'-8	6	12	8'-1	2'-5	5'-8	6	9'-8	0.399	0.484	0.257	1.140	176.89
36-40	8	5	13.5	15.5	9	6	4	6	7'-4	4	6	20	4	12	7	4	11	6	4	12	9	4	11	6	9	9	9'-2	6	12	6'-4	2'-5	3'-11	6	9'-2	8	6	9'-8	6	12	8'-2	2'-5	5'-9	6	9'-8	0.428	0.515	0.257	1.200	195.63
41-45	8	5	14.5	17	9	6	4	6	7'-6	4	6	20	4	12	7	4	11	6	4	12	9	4	11	6	9	9	9'-2	6	12	6'-6	2'-5	4'-1	6	9'-2	8	6	9'-8	6	12	8'-3	2'-5	5'-10	6	9'-8	0.458	0.561	0.257	1.276	196.89
46-50	8	5	15.5	17.5	9.5	6	4	6	7'-8	4	6	20	4	12	7	4	14	6	4	12	9	4	11	6	8	6	9'-3	6	12	7'-1	3'-0	4'-1	6	9'-3	8	6	9'-9	6	12	8'-5	2'-6	5'-11	6	9'-9	0.492	0.582	0.271	1.345	206.79
51-55	8	5	16	18.5	9.5	9	4	12	7'-9	4	6	20	4	12	7	4	11	6	4	12	9	4	10	6	8	6	9'-3	5	6	6'-4	2'-7	3'-9	5	9'-3	8	6	9'-9	5	6	8'-4	2'-4	6'-0	5	9'-9	0.507	0.613	0.271	1.391	208.24



- Notes:**
- Dimensions listed on this sheet to be used in conjunction with Sheet RCB G3-20.
 - The k2 and m2 bars horizontal legs may lap in low fill situations.
 - Fill dimensions "S" and "H" are in feet.
 - Dimensions "A", "B", "C", "D", and "Sp." listed in the bar list are in inches.
 - 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 8' x 5' Barrel Sections	RCB 8-5-20

ENGLISHLRFDDESIGNEDSINGLECULVERTS.DGN - RCB 8-5-20 - THIS SHEET ISSUED 07-2020.