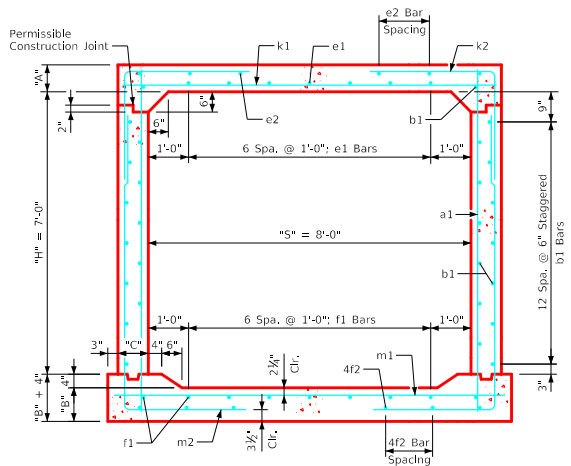
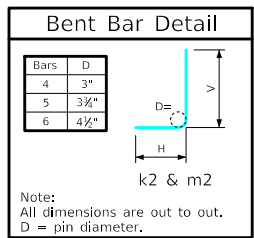


### Variable Dimensions and Quantities for 8' x 7' Barrel Sections

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)		
							Size	Sp.	L	Size	Sp.	No.	Size	Sp.	No.	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	7	12.5	11	9	9	4	9	8'-10	4	6	28	5	12	7	4	13	8	4	12	9	4	13	8	6	9	9'-2	4	6	8'-6	5'-5	3'-1	-	-	5	6	9'-8	4	6	11'-3	3'-11	7'-4	4	9'-8	0.399	0.376	0.368	1.143	151.58
1	8	7	10.5	10.5	9	9	4	9	8'-8	4	6	28	5	12	7	4	13	8	4	12	9	4	13	8	6	9	9'-2	4	6	8'-4	5'-5	2'-11	-	-	5	6	9'-8	4	6	11'-4	4'-0	7'-4	4	9'-8	0.340	0.361	0.368	1.069	151.08
2	8	7	8	10	9	9	5	12	8'-5	4	6	28	5	12	7	4	14	8	4	12	9	4	17	6	5	6	9'-2	4	6	6'-10	4'-1	2'-9	4	9'-2	7	9	9'-8	4	6	10'-8	3'-5	7'-3	4	9'-8	0.267	0.345	0.368	0.980	153.97
3	8	7	8	10	9	9	4	9	8'-5	4	6	28	4	12	7	4	16	6	4	12	9	4	15	6	6	9	9'-2	4	6	6'-1	3'-4	2'-9	4	9'-2	5	6	9'-8	4	6	10'-5	3'-2	7'-3	4	9'-8	0.267	0.345	0.368	0.980	137.13
4-8	8	7	8	10	9	9	4	12	8'-5	4	6	28	4	12	7	4	15	6	4	12	9	4	14	6	6	9	9'-2	4	6	6'-2	3'-1	3'-1	4	9'-2	5	6	9'-8	4	6	10'-3	3'-0	7'-3	4	9'-8	0.267	0.345	0.368	0.980	133.34
9-10	8	7	8	10	9	9	4	12	8'-5	4	6	28	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	9'-8	2'-5	7'-3	4	9'-8	0.267	0.345	0.368	0.980	129.97
11-15	8	7	8	10	9	9	4	12	8'-5	4	6	28	4	12	7	4	11	6	4	12	9	4	11	6	6	6	9'-2	5	6	5'-7	2'-6	3'-1	5	9'-2	6	6	9'-8	5	6	9'-9	2'-6	7'-3	5	9'-8	0.267	0.345	0.368	0.980	171.79
16-20	8	7	9	11	9	9	4	12	8'-7	4	6	28	4	12	7	4	11	6	4	12	9	4	11	6	8	9	9'-2	5	6	5'-7	2'-5	3'-2	5	9'-2	7	6	9'-8	5	6	9'-9	2'-5	7'-4	5	9'-8	0.296	0.376	0.368	1.040	188.84
21-25	8	7	10	12.5	9	9	4	12	8'-9	4	6	28	4	12	7	4	11	6	4	12	9	4	11	6	7	6	9'-2	6	9	6'-2	2'-6	3'-8	6	9'-2	7	6	9'-8	6	9	9'-11	2'-5	7'-6	6	9'-8	0.326	0.422	0.368	1.116	195.97
26-30	8	7	11	13.5	9	9	4	9	8'-11	4	6	28	4	12	7	4	11	6	4	12	9	4	11	6	7	6	9'-2	6	9	6'-3	2'-6	3'-9	6	9'-2	7	6	9'-8	6	9	10'-1	2'-6	7'-7	6	9'-8	0.355	0.453	0.368	1.176	201.00
31-35	8	7	12.5	14.5	10.5	9	4	9	9'-2	4	6	28	4	12	7	4	11	6	4	12	9	4	11	6	7	6	9'-5	5	6	6'-0	2'-7	3'-5	5	9'-5	7	6	9'-11	5	6	10'-4	2'-8	7'-8	5	9'-11	0.412	0.497	0.431	1.340	203.74
36-40	8	7	13.5	16	11	6	4	6	9'-4	4	6	28	4	12	7	4	11	6	4	12	9	4	12	6	7	6	9'-6	6	9	6'-8	2'-8	4'-0	6	9'-6	7	6	10'-0	6	9	10'-6	2'-9	7'-9	6	10'-0	0.447	0.549	0.451	1.447	216.26
41-45	8	7	14.5	17	11.5	6	4	6	9'-6	4	6	28	4	12	7	4	11	6	4	12	9	4	12	6	9	9	9'-7	6	9	6'-10	2'-9	4'-1	6	9'-7	9	9	10'-1	6	9	10'-8	2'-10	7'-10	6	10'-1	0.483	0.587	0.471	1.541	230.61
46-50	8	7	15	17.5	12.5	6	4	6	9'-7	4	6	28	4	12	7	4	12	6	4	12	9	4	12	6	9	9	9'-9	5	6	6'-7	2'-11	3'-8	5	9'-9	9	9	10'-3	5	6	10'-11	3'-0	7'-11	5	10'-3	0.508	0.614	0.512	1.634	232.55
51-55	8	7	16	18.5	13	6	4	6	9'-9	4	6	28	4	12	7	4	12	6	4	12	9	4	13	6	8	6	9'-10	5	6	6'-9	3'-0	3'-9	5	9'-10	8	6	10'-4	5	6	11'-1	3'-1	8'-0	5	10'-4	0.545	0.652	0.532	1.729	248.74



- 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 <b>Single Reinforced Concrete Box Culverts</b> July, 2020	
		Culvert Barrel Details 8' x 7' Barrel Sections	RCB 8-7-20

ENGLISHLRFDDESIGNEDSINGLECULVERTS.DGN - RCB 8-7-20 - THIS SHEET ISSUED 07-2020.