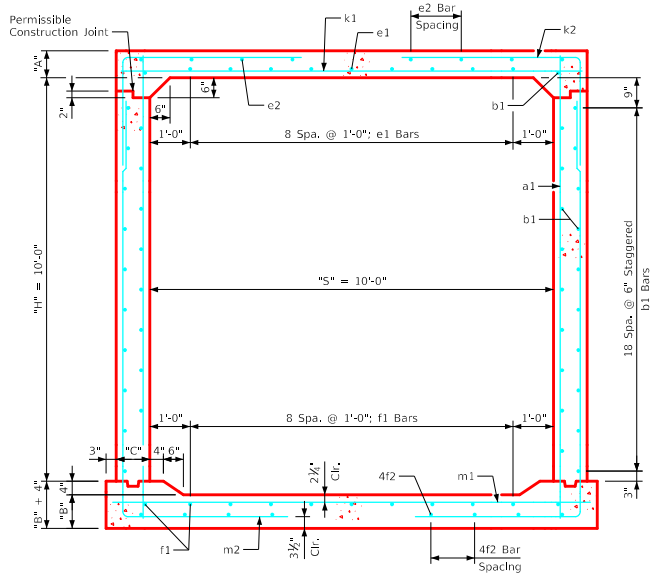
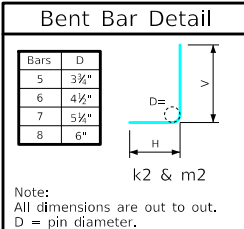


### Variable Dimensions and Quantities for 10' x 10' Barrel Sections

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)				S		
0	10	10	10	12.5	12.5	10	9	Size	Sp.	L	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	(LB/FT)					
0	10	10	10	12.5	12.5	10	9	4	12	12'-0	4	6	40	4	12	9	4	17	8	4	12	11	4	17	8	5	6	11'-4	5	6	10'-1	6'-8	3'-5	-	-	7	9	11'-10	5	6	17'-2	6'-8	10'-6	-	-	0.485	0.508	0.594	1.587	239.61
1	10	10	10	12	12.5	10	9	4	12	11'-11	4	6	40	4	12	9	4	17	8	4	12	11	4	17	8	5	6	11'-4	5	6	10'-1	6'-8	3'-5	-	-	7	9	11'-10	5	6	17'-2	6'-8	10'-6	-	-	0.467	0.508	0.594	1.569	239.50
2	10	10	8	10	10	9	4	9	11'-5	4	6	40	5	12	9	4	17	8	4	12	11	4	17	8	6	6	11'-4	6	9	10'-5	6'-11	3'-6	-	-	6	6	11'-10	6	9	15'-3	5'-0	10'-3	6	11'-10	0.323	0.414	0.594	1.331	253.13	
3	10	10	8	10	10	9	4	12	11'-5	4	6	40	4	12	9	4	17	8	4	12	11	4	14	8	7	9	11'-4	5	6	8'-2	5'-1	3'-1	5	11'-4	6	6	11'-10	5	6	14'-7	4'-4	10'-3	5	11'-10	0.323	0.414	0.594	1.331	231.74	
4-7	10	10	8	10	10	9	4	12	11'-5	4	6	40	4	12	9	4	15	8	4	12	11	4	13	8	6	6	11'-4	5	6	7'-6	4'-5	3'-1	5	11'-4	6	6	11'-10	5	6	14'-4	4'-1	10'-3	5	11'-10	0.323	0.414	0.594	1.331	230.05	
8-10	10	10	8	10.5	10	9	4	12	11'-5	4	6	40	4	12	9	4	12	8	4	12	11	4	12	8	8	9	11'-4	7	9	7'-8	3'-10	3'-10	7	11'-4	7	6	11'-10	7	9	14'-2	3'-10	10'-4	7	11'-10	0.323	0.433	0.594	1.350	284.11	
11-15	10	10	9	11	10	9	4	12	11'-7	4	6	40	4	12	9	4	16	6	4	12	11	4	16	6	7	6	11'-4	7	9	7'-5	3'-5	4'-0	7	11'-4	7	6	11'-10	7	9	13'-9	3'-5	10'-4	7	11'-10	0.359	0.452	0.594	1.405	282.66	
16-20	10	10	10.5	13.5	11	9	5	9	11'-11	4	6	40	4	12	9	4	17	6	4	12	11	4	15	6	7	6	11'-6	6	6	7'-4	3'-8	3'-8	6	11'-6	7	6	12'-0	5	6	13'-11	3'-4	10'-7	5	12'-0	0.421	0.553	0.655	1.629	283.39	
21-25	10	10	12.5	15	12	9	4	12	12'-2	4	6	40	4	12	9	4	15	6	4	12	11	4	15	6	7	6	11'-8	7	9	7'-7	3'-4	4'-3	7	11'-8	9	9	12'-2	7	9	14'-1	3'-5	10'-8	7	12'-2	0.503	0.620	0.714	1.837	296.45	
26-30	10	10	14	16.5	13	9	5	12	12'-5	4	6	40	4	12	9	4	15	6	4	12	11	4	16	6	9	9	11'-10	8	12	8'-3	3'-6	4'-9	8	11'-10	8	6	12'-4	8	12	14'-5	3'-7	10'-10	8	12'-4	0.568	0.688	0.773	2.029	331.05	
31-35	10	10	15	18	14.5	9	4	9	12'-8	4	6	40	4	12	9	4	12	8	4	12	11	4	16	6	9	9	12'-1	6	6	8'-2	4'-1	4'-1	6	12'-1	8	6	12'-7	6	6	14'-8	3'-9	10'-11	6	12'-7	0.621	0.764	0.862	2.247	338.00	
36-40	10	10	16.5	19	15.5	9	4	9	12'-10	4	6	40	4	12	9	4	12	8	4	12	11	4	16	6	8	6	12'-3	6	6	8'-6	4'-3	4'-3	6	12'-3	8	6	12'-9	6	6	14'-11	3'-11	11'-0	6	12'-9	0.690	0.816	0.921	2.427	351.71	
41-45	10	10	17.5	20.5	16.5	9	5	12	13'-1	4	6	40	4	12	9	4	12	8	4	12	11	4	17	6	8	6	12'-5	6	6	8'-6	4'-3	4'-3	6	12'-5	8	6	12'-11	6	6	15'-3	4'-1	11'-2	6	12'-11	0.740	0.889	0.980	2.609	360.61	
46-50	10	10	19	21.5	17.5	9	6	9	13'-3	4	6	40	4	12	9	4	16	6	4	12	11	4	17	6	8	6	12'-7	7	9	8'-10	4'-1	4'-9	7	12'-7	8	6	13'-1	7	9	15'-5	4'-2	11'-3	7	13'-1	0.812	0.943	1.039	2.794	380.95	
51-55	10	10	20	23	18.5	6	4	6	13'-6	4	6	40	4	12	9	4	12	8	5	12	11	4	17	6	8	6	12'-9	6	6	9'-0	4'-6	4'-6	6	12'-9	9	6	13'-3	6	6	15'-8	4'-4	11'-4	6	13'-3	0.864	1.019	1.098	2.981	401.61	



- 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		RCB 10-10-20
10' x 10' Barrel Sections		

ENGLISHLRFD\DESIGNED\CULVERTS.DGN - RCB 10-10-20 - THIS SHEET ISSUED 07-2020.