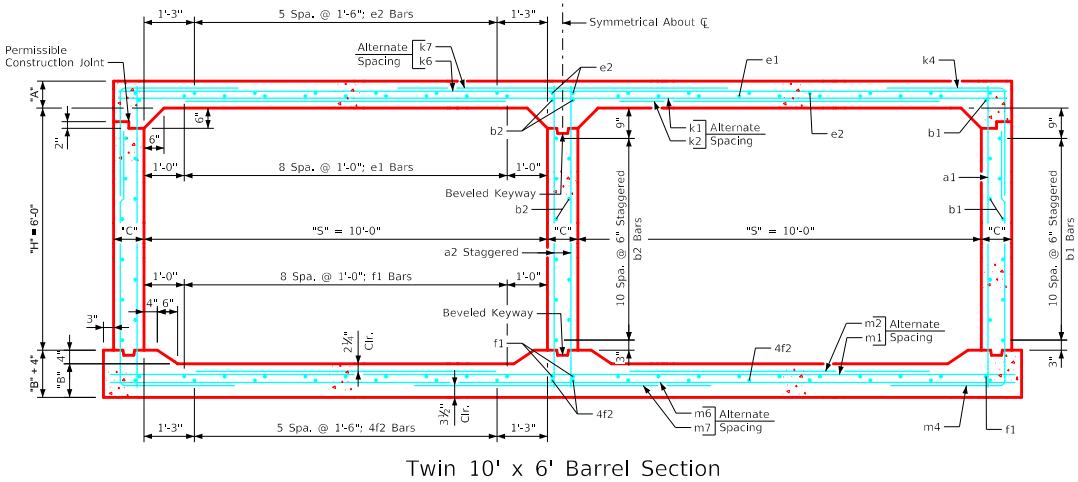
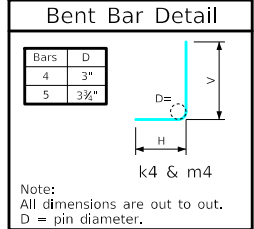


Variable Dimensions and Quantities for Twin 10' x 6' Barrel Sections

Dimensions													Bar List																																										
Fill	S	H	A	B	C	D	E	U	W	X	Z	a1			a2			b1			b2			e1			e2			f1			f2			k1			k2			k4			k6			k7			k9				
												Size	Sp.	L	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.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.		
0	10	6	13	11	9	9	9	0'-0	6'-2	2'-1	6'-9	4	12	7'-11	6	9	7'-11	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	6	18	21'-11	5	18	10'-11	4	6	9'-7	6'-5	3'-2	4	12	21'-11	4	12	12'-4	4	4.5	21'-11
1	10	6	12.5	11	9	6	9	0'-8	6'-2	2'-0	4'-11	4	6	7'-10	6	9	7'-10	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	6	18	21'-11	5	18	10'-3	4	6	9'-6	6'-5	3'-1	4	12	21'-11	4	12	12'-4	4	4.5	21'-11
2	10	6	9	10	9	9	9	1'-1	5'-8	2'-1	4'-4	4	12	7'-6	6	9	7'-6	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	12	21'-11	5	12	9'-8	5	6	6'-4	3'-2	3'-2	5	12	21'-11	5	12	11'-4	5	4.5	21'-11
3	10	6	8	10	9	6	9	1'-8	4'-6	2'-3	4'-0	4	6	7'-5	6	9	7'-5	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	12	21'-11	5	12	8'-2	5	6	6'-2	3'-1	3'-1	4	12	21'-11	6	12	9'-0	6	4.5	21'-11
4	10	6	8	10	9	6	9	1'-11	3'-11	2'-4	3'-7	4	6	7'-5	6	9	7'-5	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	6	18	21'-11	6	18	7'-10	4	6	5'-10	2'-11	2'-11	5	12	21'-11	5	12	7'-10	5	4.5	21'-11
5-7	10	6	8	10	9	6	9	2'-2	3'-10	2'-5	3'-9	4	6	7'-5	6	9	7'-5	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	4	9	21'-11	4	9	7'-6	4	6	5'-10	2'-11	2'-11	5	12	21'-11	6	12	7'-8	6	4.5	21'-11
8-10	10	6	9	11	9	6	9	2'-2	3'-5	2'-1	3'-7	4	6	7'-7	6	9	7'-7	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	12	21'-11	5	12	7'-9	4	6	5'-8	2'-10	2'-10	5	9	21'-11	5	9	6'-10	5	4.5	21'-11
11-13	10	6	11	13	9	9	9	1'-10	3'-7	2'-0	3'-7	4	9	7'-11	6	9	7'-11	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	6	18	21'-11	6	18	8'-8	4	6	5'-6	2'-6	3'-0	4	9	21'-11	6	9	7'-2	6	4.5	21'-11
14-16	10	6	12.5	14.5	9	9	9	1'-8	3'-8	1'-11	3'-8	4	9	8'-2	6	9	8'-2	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	6	18	21'-11	6	18	9'-3	4	6	5'-6	2'-5	3'-1	5	12	21'-11	7	12	7'-4	7	4.5	21'-11
17-19	10	6	14	16	9	9	9	1'-6	3'-9	1'-7	3'-10	4	9	8'-5	6	9	8'-5	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	12	21'-11	5	12	9'-5	4	6	5'-9	2'-6	3'-3	5	12	21'-11	7	12	7'-6	7	4.5	21'-11
20-22	10	6	15	17	9	9	9	1'-5	3'-10	1'-6	3'-11	4	12	8'-7	6	9	8'-7	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	12	21'-11	5	12	9'-6	4	6	5'-10	2'-6	3'-4	5	12	21'-11	7	12	7'-8	7	4.5	21'-11
23-25	10	6	16.5	18	9	9	9	1'-8	3'-11	1'-8	4'-0	4	12	8'-0	6	9	8'-0	4	6	24	4	6	13	4	12	18	4	18	16	4	12	22	4	18	16	5	9	21'-11	4	9	9'-3	4	6	5'-11	2'-6	3'-5	5	12	21'-11	7	12	7'-10	7	4.5	21'-11

Fill	Bar List																		Quantities						
	m1			m2			m4			m6			m7			m9			Concrete (CY/FT)		Steel (LB/FT)				
Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	H	V	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Slab	Floor	Walls	Total		
0	5	12	22'-5	5	12	7'-8	5	6	12'-8	6'-4	6'-4	5	18	22'-5	7	18	13'-6	7	4.5	22'-5	0.950	0.831	0.465	2.246	339.68
1	4	9	22'-5	4	9	7'-10	4	6	11'-3	4'-11	6'-4	4	9	22'-5	4	9	9'-10	4	4.5	22'-5	0.915	0.831	0.465	2.211	290.63
2	5	12	22'-5	5	12	7'-7	5	6	9'-6	3'-3	6'-3	4	12	22'-5	6	12	8'-8	6	4.5	22'-5	0.675	0.761	0.465	1.901	314.87
3	5	12	22'-5	5	12	7'-5	4	6	9'-3	3'-0	6'-2	5	18	22'-5	7	18	8'-0	7	4.5	22'-5	0.606	0.761	0.465	1.832	299.87
4	4	9	22'-5	4	9	7'-5	4	6	9'-2	2'-11	6'-3	5	12	22'-5	5	12	7'-2	5	4.5	22'-5	0.606	0.761	0.465	1.832	285.71
5-7	5	12	22'-5	5	12	7'-3	4	6	9'-1	2'-10	6'-3	4	12	22'-5	7	12	7'-6	7	4.5	22'-5	0.606	0.761	0.465	1.832	290.55
8-10	5	12	22'-5	5	12	7'-9	4	6	8'-11	2'-7	6'-4	4	9	22'-5	6	9	7'-2	6	4.5	22'-5	0.675	0.831	0.465	1.971	305.11
11-13	5	12	22'-5	5	12	8'-4	4	6	9'-0	2'-6	6'-6	5	9	22'-5	5	9	7'-2	5	4.5	22'-5	0.812	0.972	0.465	2.249	302.92
14-16	5	12	22'-5	5	12	8'-11	4	6	9'-2	2'-6	6'-8	5	12	22'-5	7	12	7'-4	7	4.5	22'-5	0.915	1.077	0.465	2.457	311.55
17-19	5	12	22'-5	5	12	9'-5	4	6	9'-3	2'-6	6'-9	5	12	22'-5	7	12	7'-8	7	4.5	22'-5	1.018	1.182	0.465	2.665	315.92
20-22	5	12	22'-5	5	12	9'-6	4	6	9'-4	2'-6	6'-10	5	12	22'-5	7	12	7'-10	7	4.5	22'-5	1.087	1.253	0.465	2.805	314.32
23-25	5	9	22'-5	4	9	9'-4	4	6	9'-5	2'-6	6'-11	5	9	22'-5	6	9	8'-0	6	4.5	22'-5	1.190	1.323	0.465	2.978	330.26



- Notes:**
- Dimensions listed on this sheet to be used in conjunction with Sheet TWRCB G3-20.
 - 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 Twin Reinforced Concrete Box Culverts July, 2020
		Culvert Barrel Details 10' x 6' Barrel Sections
		TWRCB 10-6-20

ENGLISHLRFDDESIGNEDTWINCULVERTS.DGN - TWRCB 10-6-20 - THIS SHEET ISSUED 07-2020.