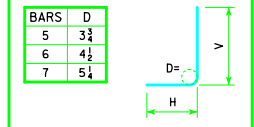


VARIABLE DIMENSIONS AND QUANTITIES FOR TRIPLE 12 x 9 BARREL SECTIONS

DIMENSIONS																		BAR LIST																																							
FILL	S	H	A	B	C	D	E	R	T	U	W	X	Z	a1		a2		b1		b2		e1		e2		f1		f2		k1		k2		k3		k4		k6		k7																	
														SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L					
0	12	9	14.5	11.5	9	9	9	0'-2	0'-0	7'-8	2'-8	5'-0	4'-4	4	12	11'-1	6	9	11'-1	4	6	36	4	6	38	4	12	33	5	17	30	4	12	39	4	17	30	5	12	38'-8	5	12	12'-5	5	9	10'-4	7'-0	3'-4	5	18	38'-8	7	18	15'-4			
1	12	9	13.5	11.5	9	9	9	0'-7	0'-1	7'-8	2'-8	5'-1	4'-3	4	12	11'-0	6	9	11'-0	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	6	18	38'-8	6	18	12'-10	6	12	10'-11	7'-4	3'-7	5	18	38'-8	7	18	15'-4			
2	12	9	10.5	10	9	9	9	2'-4	1'-7	6'-6	3'-3	4'-5	4'-2	5	12	10'-7	6	9	10'-7	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	6	12	38'-8	5	12	10'-11	4	12	8'-1	6	9	8'-3	4'-10	3'-5	4	9	38'-8	5	9	14'-0
3-6	12	9	10.5	10.5	9	9	9	2'-0	1'-4	5'-10	3'-0	4'-4	4'-0	4	9	10'-8	6	9	10'-8	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	7	18	38'-8	7	18	11'-7	5	18	8'-9	5	6	7'-5	4'-4	3'-1	5	12	38'-8	6	12	13'-11
7-8	12	9	10.5	11.5	9	9	9	4'-0	2'-9	4'-0	2'-8	4'-2	3'-9	4	9	10'-9	6	9	10'-9	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	5	9	38'-8	4	9	8'-8	4	9	4'-9	6	9	6'-10	3'-5	3'-5	5	9	38'-8	5	9	8'-7
9-10	12	9	11	13	9	9	9	4'-1	2'-8	4'-0	2'-7	4'-4	3'-10	4	9	10'-11	6	9	10'-11	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	6	12	38'-8	5	12	8'-10	4	12	4'-7	6	9	6'-10	3'-5	3'-5	5	12	38'-8	7	12	8'-6
11-12	12	9	12	14	9	9	9	4'-0	2'-7	3'-11	2'-5	4'-1	3'-9	4	9	11'-1	6	9	11'-1	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	6	12	38'-8	5	12	9'-4	4	12	4'-9	6	9	7'-0	3'-6	3'-6	5	12	38'-8	7	12	8'-4
13-15	12	9	14	16	9	9	9	4'-1	2'-2	3'-11	2'-2	4'-1	3'-10	4	9	11'-5	6	9	11'-5	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	6	12	38'-8	5	12	10'-2	4	12	4'-7	6	9	7'-0	3'-4	3'-8	5	12	38'-8	7	12	8'-5
16-17	12	9	15	17	9.5	9	6	3'-8	1'-11	3'-11	2'-0	4'-0	3'-11	4	12	11'-7	5	6	11'-7	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	7	18	38'-10	7	18	11'-1	4	18	5'-6	5	6	6'-10	3'-5	3'-5	5	12	38'-10	7	12	8'-5
18-19	12	9	16	18	10	9	9	3'-7	1'-6	4'-0	1'-7	3'-10	4'-0	4	9	11'-9	7	9	11'-9	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	7	18	39'-0	7	18	11'-7	5	18	5'-8	6	9	7'-3	3'-5	3'-10	5	12	39'-0	7	12	8'-7
20-21	12	9	17	19	10.5	9	9	3'-6	1'-5	4'-0	1'-7	3'-10	4'-1	4	9	11'-11	7	9	11'-11	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	7	18	39'-2	7	18	11'-8	5	18	5'-10	5	6	7'-2	3'-7	3'-7	5	12	39'-2	7	12	8'-8
22-23	12	9	18	20	11	9	9	3'-6	1'-1	4'-1	1'-6	3'-9	4'-2	4	9	12'-1	7	9	12'-1	4	6	36	4	6	38	4	12	33	4	17	30	4	12	39	4	17	30	5	9	39'-4	5	9	12'-1	4	9	5'-11	6	9	7'-7	3'-7	4'-0	5	9	39'-4	6	9	8'-10
24-25	12	9	19	21.5	11.5	9	9	3'-6	1'-0	4'-2	1'-0	3'-8	4'-3	4	9	12'-3	7	9	12'-3	4	6	36	4	6	38	4	12	33	4	17	30	5	12	39	4	17	30	6	12	39'-6	6	12	12'-3	4	12	6'-0	5	6	7'-6	3'-9	3'-9	5	9	39'-6	6	9	8'-11

BAR LIST																		QUANTITIES													
FILL	SIZE	SP.	L	m1		m2		m3		m4		m6		m7		m9		CONCRETE (CY/FT)				STEEL									
				SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SLAB	FLOOR	WALLS	TOTAL	(LB/FT)								
0	7	4.5	38'-8	5	12	39'-2	5	12	9'-0	4	12	2'-9	6	9	15'-8	6'-3	9'-5	4	9	39'-2	5	9	8'-9	5	4.5	39'-2	1.827	1.483	0.952	4.262	583.53
1	7	4.5	38'-8	5	12	39'-2	5	12	9'-0	4	12	2'-7	7	12	15'-8	6'-3	9'-5	4	9	39'-2	5	9	8'-8	5	4.5	39'-2	1.706	1.483	0.952	4.141	578.76
2	5	4.5	38'-8	6	12	39'-2	5	12	7'-7	4	12	3'-11	6	9	13'-9	4'-6	9'-3	5	12	39'-2	7	12	8'-6	7	4.5	39'-2	1.345	1.301	0.952	3.598	619.68
3-6	6	4.5	38'-8	5	9	39'-2	5	9	8'-4	4	9	4'-1	5	6	13'-5	4'-1	9'-4	5	9	39'-2	6	9	8'-3	6	4.5	39'-2	1.345	1.362	0.952	3.659	640.08
7-8	5	4.5	38'-8	5	9	39'-2	5	9	8'-9	4	9	4'-5	6	9	12'-11	3'-6	9'-5	5	9	39'-2	6	9	7'-10	6	4.5	39'-2	1.345	1.483	0.952	3.780	607.82
9-10	7	4.5	38'-8	6	12	39'-2	5	12	9'-3	4	12	4'-1	6	9	12'-10	3'-4	9'-6	5	12	39'-2	7	12	8'-1	7	4.5	39'-2	1.405	1.666	0.952	4.023	609.71
11-12	7	4.5	38'-8	5	9	39'-2	5	9	9'-8	4	9	4'-7	6	9	12'-11	3'-4	9'-7	5	12	39'-2	7	12	8'-0	7	4.5	39'-2	1.526	1.788	0.952	4.266	613.79
13-15	7	4.5	38'-8	5	9	39'-2	5	9	10'-8	4	9	4'-7	6	9	13'-2	3'-5	9'-9	5	12	39'-2	7	12	8'-3	7	4.5	39'-2	1.766	2.032	0.952	4.750	622.26
16-17	7	4.5	38'-10	5	9	39'-4	5	9	11'-0	4	9	4'-10	5	6	13'-5	3'-5	9'-10	5	12	39'-4	7	12	8'-5	7	4.5	39'-4	1.897	2.165	1.004	5.066	628.71
18-19	7	4.5	39'-0	5	9	39'-6	5	9	11'-6	4	9	5'-2	6	9	13'-5	3'-6	9'-11	5	12	39'-6	7	12	8'-7	7	4.5	39'-6	2.029	2.299	1.057	5.385	658.21
20-21	7	4.5	39'-2	6	12	39'-8	6	12	11'-7	4	12	5'-2	5	6	13'-6	3'-6	10'-0	5	9	39'-8	6	9	8'-9	6	4.5	39'-8	2.162	2.430	1.113	5.705	680.63
22-23	6	4.5	39'-4	6	12	39'-10	6	12	11'-9	4	12	5'-5	6	9	13'-8	3'-7	10'-1	5	9	39'-10	6	9	8'-11	6	4.5	39'-10	2.296	2.566	1.166	6.028	695.18
24-25	6	4.5	39'-6	6	12	40'-0	6	12	12'-4	4	12	5'-8	5	6	14'-0	3'-9	10'-3	5	9	40'-0	6	9	9'-2	6	4.5	40'-0	2.431	2.765	1.218	6.414	725.24

BENT BAR DETAIL



k4 & m4

NOTE:
ALL DIMENSIONS ARE OUT TO OUT.
D = PIN DIAMETER.

NOTES:

1. DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET TRRCB G2-12.
2. DIMENSIONS "A", "B", "C", "D", "E", AND "SP." LISTED IN THE BAR LIST ARE IN INCHES.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN TRIPLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012 CULVERT BARREL DETAILS 12 x 9 BARREL SECTIONS	TRRCB 12-9-12 SHEET 2 OF 2
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ENGLISH BEDSIGNED TRIPLE CULVERTS.DGN - TRRCB 12-9-12 - THIS SHEET ISSUED 04-12.