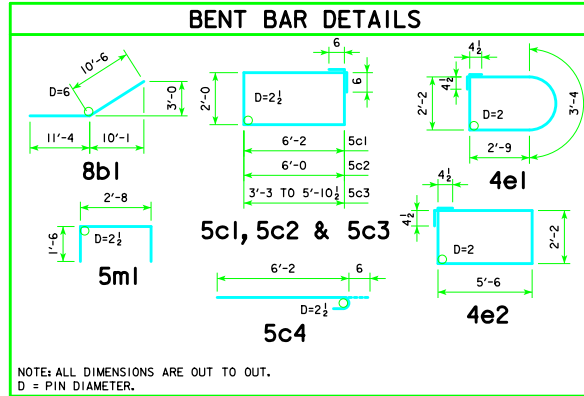


**CAP**

REINFORCING STEEL	C - C ABUT. BEARINGS	160'-0"		180'-0"		200'-0"		220'-0"		240'-0"		260'-0"		280'-0"		300'-0"		320'-0"		340'-0"			
		BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	
a1	40'-8"		7	8	760	7	8	760	7	9	968	7	10	1225	7	10	1225	7	11	1512	7	11	1512
a2	40'-8"		7	7	582	7	8	760	7	8	760	7	9	968	7	9	968	7	10	1225	7	10	1225
6a3	40'-8"		6	6	366	6	6	366	6	6	366	6	6	366	6	6	366	6	6	366	6	6	366
6a4	38'-8"		2	6	116	2	6	116	2	6	116	2	6	116	2	6	116	2	6	116	2	6	116
6a5	33'-7"		2	6	101	2	6	101	2	6	101	2	6	101	2	6	101	2	6	101	2	6	101
6a6	27'-4"		2	6	82	2	6	82	2	6	82	2	6	82	2	6	82	2	6	82	2	6	82
8b1	21'-10"		8	8	466	8	8	466	8	8	466	8	8	466	8	8	466	8	8	466	8	8	466
5c1	17'-0"		30	5	542	30	5	542	30	5	542	30	5	542	30	5	542	30	5	542	30	5	542
5c2	17'-0"		4	5	71	4	5	71	4	5	71	4	5	71	4	5	71	4	5	71	4	5	71
5c3	VARIES		40	5	589	40	5	589	40	5	589	40	5	589	52	5	766	52	5	766	68	5	1002
5c4	6'-8"		20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	20	5	139
5ml	5'-8"		8	5	47	8	5	47	8	5	47	8	5	47	8	5	47	8	5	47	8	5	47
5n1	2'-10"		8	5	24	8	5	24	8	5	24	8	5	24	8	5	24	8	5	24	8	5	24
TOTAL (LB.)					3885			4063			4063			4271			4479			4913			5170
STRUCTURAL CONCRETE (CY)					27.0			27.0			27.0			27.0			27.0			27.0			27.0

**COLUMN**

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (LB.)			
			d1 BAR			4e1 BAR			4e2 BAR									
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT				
16	5'-6"	9.9	50	9	8'-3"	1403	12	4	11'-9"	94	24	4	16'-1"	258	1755			
17	6'-6"	11.7	50	9	9'-3"	1573	14	4	11'-9"	110	28	4	16'-1"	301	1984			
18	7'-6"	13.5	50	9	10'-3"	1743	16	4	11'-9"	126	32	4	16'-1"	344	2213			
19	8'-6"	15.3	50	9	11'-3"	1913	18	4	11'-9"	141	36	4	16'-1"	387	2441			
20	9'-6"	17.1	50	9	12'-3"	2083	20	4	11'-9"	157	40	4	16'-1"	430	2670			
21	10'-6"	18.9	50	9	13'-3"	2253	22	4	11'-9"	173	44	4	16'-1"	473	2899			
22	11'-6"	20.7	50	9	14'-3"	2423	24	4	11'-9"	188	48	4	16'-1"	516	3127			
23	12'-6"	22.5	50	9	15'-3"	2593	26	4	11'-9"	204	52	4	16'-1"	559	3356			
24	13'-6"	24.3	50	9	16'-3"	2763	28	4	11'-9"	220	56	4	16'-1"	602	3585			
25	14'-6"	26.1	50	9	17'-3"	2933	30	4	11'-9"	235	60	4	16'-1"	645	3813			
26	15'-6"	27.9	50	9	18'-3"	3103	32	4	11'-9"	251	64	4	16'-1"	688	4042			
27	16'-6"	29.7	50	9	19'-3"	3273	34	4	11'-9"	267	68	4	16'-1"	731	4271			
28	17'-6"	31.5	50	9	20'-3"	3443	36	4	11'-9"	283	72	4	16'-1"	774	4500			
29	18'-6"	33.3	50	9	21'-3"	3613	38	4	11'-9"	298	76	4	16'-1"	817	4728			
30	19'-6"	35.1	50	9	22'-3"	3783	40	4	11'-9"	314	80	4	16'-1"	859	4956			
31	20'-6"	36.9	50	9	23'-3"	3953	42	4	11'-9"	330	84	4	16'-1"	902	5185			
32	21'-6"	38.7	50	9	24'-3"	4123	44	4	11'-9"	345	88	4	16'-1"	945	5413			
33	22'-6"	40.5	50	9	25'-3"	4293	46	4	11'-9"	361	92	4	16'-1"	988	5642			
34	23'-6"	42.4	50	9	26'-3"	4463	48	4	11'-9"	377	96	4	16'-1"	1031	5871			
35	24'-6"	44.2	50	9	27'-3"	4633	50	4	11'-9"	392	100	4	16'-1"	1074	6099			
36	25'-6"	46.0	50	9	28'-3"	4803	52	4	11'-9"	408	104	4	16'-1"	1117	6328			
37	26'-6"	47.8	50	9	29'-3"	4973	54	4	11'-9"	424	108	4	16'-1"	1160	6557			
38	27'-6"	49.6	50	9	30'-3"	5143	56	4	11'-9"	440	112	4	16'-1"	1203	6786			
39	28'-6"	51.4	50	9	31'-3"	5313	58	4	11'-9"	455	116	4	16'-1"	1246	7014			
40	29'-6"	53.2	50	9	32'-3"	5483	60	4	11'-9"	471	120	4	16'-1"	1289	7243			



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

NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.  
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

**PIER NOTES:**

SEE "TEE PIER NOTES" ON RS40-003-14 FOR NOTES REGARDING APPLICATION OF THESE PIER STANDARDS.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Norman E. McQuinn</i>	<b>IOWADOT</b> Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES	
		<b>ROLLED STEEL BEAM BRIDGES</b>	
		OCTOBER, 2014	
		<b>TEE PIER CAP &amp; COLUMN DETAILS</b> 0° SKEW	<b>RS40-117-14</b>