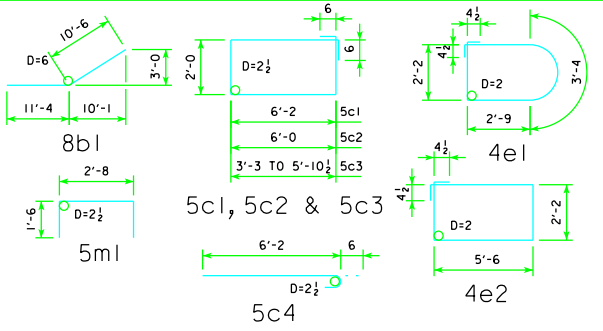
CAP

REINFORCING STEEL

℄ - ℄ 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	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	40'-8		7	8	760	7	8	760	7	8	760	7	9	968	7	9	968	7	10	1225	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	8	760	7	9	968	7	9	968	7	10	1225	7	10	1225	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	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	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	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	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	8	8	466	8	8	466	8	8	466
5c1	17'-4		30	5	542	30	5	542	30	5	542	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	4	5	71	4	5	71	4	5	71
5c3	VARIES		40	5	589	40	5	589	40	5	589	40	5	589	40	5	589	52	5	766	52	5	766	68	5	1002	68	5	1002	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	20	5	139	20	5	139	20	5	139
5m1	5'-8		8	5	47	8	5	47	8	5	47	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	8	5	24	8	5	24	8	5	24
TOTAL (LB.)			3885			4063			4063			4271			4479			4913			5170			5406			5693			5693		
STRUCTURAL CONCRETE (CY)			27.0			27.0			27.0			27.0			27.0			27.0			27.0			27.0			27.0			27.0		

BENT BAR DETAILS



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

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

PIER NOTES:

SEE "TEE PIER NOTES" ON RS40-003-10 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

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

JUNE, 2010

TEE PIER CAP & COLUMN DETAILS
0° SKEW

RS40-117-10