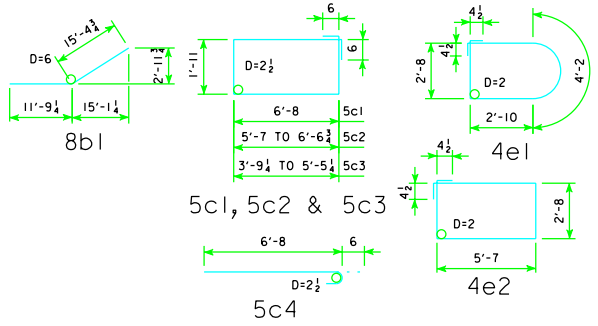
BENT BAR DETAILS



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

CAP

REINFORCING STEEL

℄ - ℄ ABUT. BEARINGS			138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-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
a1	51'-8		8	9	1405	8	9	1405	8	10	1779	8	10	1779	8	10	1779	8	10	1779	8	11	2196	8	11	2196	8	11	2196
a2	51'-8		8	8	1104	8	9	1405	8	9	1405	8	9	1405	8	9	1405	8	10	1779	8	10	1779	8	10	1779	8	11	2196
6a3	51'-8		8	6	621	8	6	621	8	6	621	8	6	621	8	6	621	8	6	621	8	6	621	8	6	621	8	6	621
6a4	VARIES		6	6	350	6	6	350	6	6	350	6	6	350	6	6	350	6	6	350	6	6	350	6	6	350	6	6	350
8b1	27'-2		8	8	580	8	8	580	8	8	580	8	8	580	8	8	580	8	8	580	8	8	580	8	8	580	8	8	580
5c1	18'-2		26	5	493	26	5	493	26	5	493	26	5	493	26	5	493	26	5	493	26	5	493	26	5	493	26	5	493
5c2	VARIES		24	5	425	24	5	425	24	5	425	24	5	425	24	5	425	28	5	496	28	5	496	32	5	567	32	5	567
5c3	VARIES		40	5	586	40	5	586	40	5	586	40	5	586	40	5	586	40	5	586	40	5	586	40	5	586	40	5	586
5c4	7'-2		20	5	149	20	5	149	20	5	149	20	5	149	20	5	149	20	5	149	20	5	149	20	5	149	20	5	149
① TOTAL (LB.)			5713			6014			6388			6388			6388			6833			7250			7321			7738		
STRUCTURAL CONCRETE (CY)			40.9			40.9			40.9			40.9			40.9			40.9			40.9			40.9			40.9		

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	12.4	50	10	9'-0	1936	12	4	13'-3	106	24	4	17'-3	277	2319
17	6'-6	14.7	50	10	10'-0	2152	14	4	13'-3	124	28	4	17'-3	323	2599
18	7'-6	17.0	50	10	11'-0	2367	16	4	13'-3	142	32	4	17'-3	369	2878
19	8'-6	19.2	50	10	12'-0	2582	18	4	13'-3	159	36	4	17'-3	415	3156
20	9'-6	21.5	50	10	13'-0	2797	20	4	13'-3	177	40	4	17'-3	461	3435
21	10'-6	23.7	50	10	14'-0	3012	22	4	13'-3	195	44	4	17'-3	507	3714
22	11'-6	26.0	50	10	15'-0	3227	24	4	13'-3	212	48	4	17'-3	553	3992
23	12'-6	28.3	50	10	16'-0	3442	26	4	13'-3	230	52	4	17'-3	599	4271
24	13'-6	30.5	50	10	17'-0	3658	28	4	13'-3	248	56	4	17'-3	645	4551
25	14'-0	31.7	50	10	17'-6	3765	30	4	13'-3	266	60	4	17'-3	691	4722
26	15'-0	33.9	50	10	18'-6	3980	32	4	13'-3	283	64	4	17'-3	737	5000
27	16'-0	36.2	50	10	19'-6	4195	34	4	13'-3	301	68	4	17'-3	784	5280
28	17'-0	38.5	50	10	20'-6	4411	36	4	13'-3	319	72	4	17'-3	830	5560
29	18'-0	40.7	50	10	21'-6	4626	38	4	13'-3	336	76	4	17'-3	876	5838
30	19'-0	43.0	50	10	22'-6	4841	40	4	13'-3	354	80	4	17'-3	922	6117
31	20'-0	45.2	50	10	23'-6	5056	42	4	13'-3	372	84	4	17'-3	968	6396
32	21'-0	47.5	50	10	24'-6	5271	44	4	13'-3	389	88	4	17'-3	1014	6674
33	22'-0	49.8	50	10	25'-6	5486	46	4	13'-3	407	92	4	17'-3	1060	6953
34	23'-0	52.0	50	10	26'-6	5701	48	4	13'-3	425	96	4	17'-3	1106	7232
35	24'-0	54.3	50	10	27'-6	5917	50	4	13'-3	443	100	4	17'-3	1152	7512
36	25'-0	56.5	50	10	28'-6	6132	52	4	13'-3	460	104	4	17'-3	1198	7790
37	26'-0	58.8	50	10	29'-6	6347	54	4	13'-3	478	108	4	17'-3	1244	8069
38	27'-0	61.1	50	10	30'-6	6562	56	4	13'-3	496	112	4	17'-3	1291	8349
39	28'-0	63.3	50	10	31'-6	6777	58	4	13'-3	513	116	4	17'-3	1337	8627
40	29'-0	65.6	50	10	32'-6	6992	60	4	13'-3	531	120	4	17'-3	1383	8906

① SEE SHEET H44-24-07 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

11-09
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
MARCH, 2007

TEE PIER
CAP AND COLUMN
30° SKEW

H44-67-07

REVISED 11-09 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.