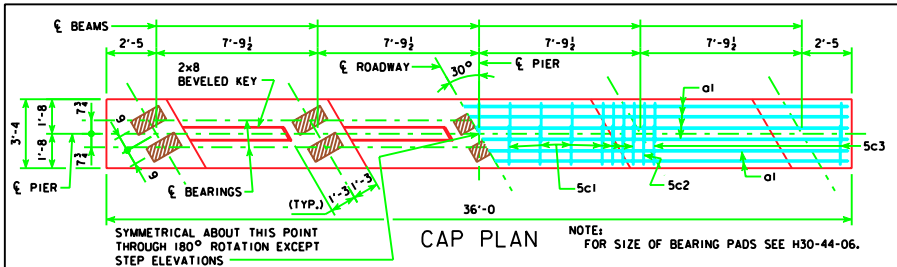
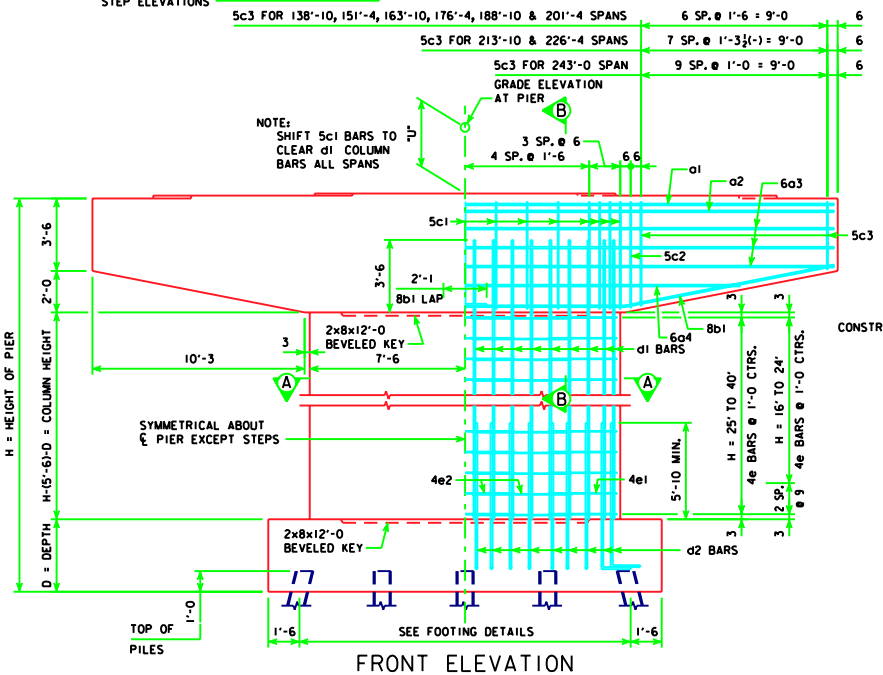
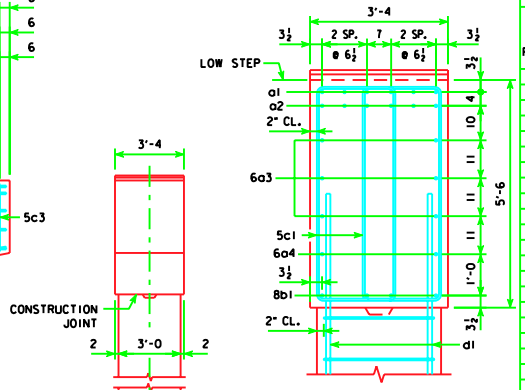


CAP PLAN

NOTE: FOR SIZE OF BEARING PADS SEE H30-44-06.

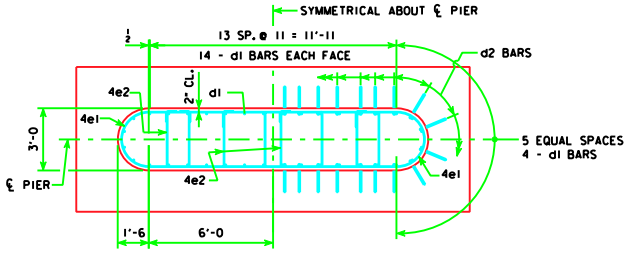


FRONT ELEVATION



SECTION B-B

END ELEVATION



SECTION A-A

① SEE SHEET H30-24-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

PIER NOTES:

SEE "TEE PIER NOTES" ON H30-01-06 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.

ELIMINATE 2x8 BEVELED KEYWAY ON TOP OF CAP FOR EXPANSION PIERS.

SEE SHEET H30-22-06 FOR "U" DIMENSION.

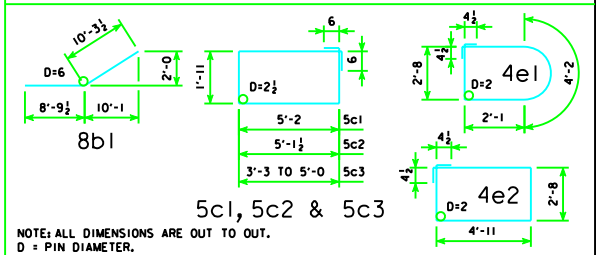
CAP

REINFORCING STEEL			138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-0		
℄ - ℄ ABUT. BEARINGS																													
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	35'-8		6	8	571	6	8	571	6	9	728	6	9	728	6	9	728	6	9	728	6	10	921	6	10	921	6	10	921
a2	35'-8		6	8	571	6	8	571	6	8	571	6	8	571	6	8	571	6	9	728	6	9	728	6	9	728	6	9	728
6a3	35'-8		6	6	321	6	6	321	6	6	321	6	6	321	6	6	321	6	6	321	6	6	321	6	6	321	6	6	321
6a4	26'-8		2	6	80	2	6	80	2	6	80	2	6	80	2	6	80	2	6	80	2	6	80	2	6	80	2	6	80
8b1	19'-1		8	8	408	8	8	408	8	8	408	8	8	408	8	8	408	8	8	408	8	8	408	8	8	408	8	8	408
5c1	15'-2		30	5	475	30	5	475	30	5	475	30	5	475	30	5	475	30	5	475	30	5	475	30	5	475	30	5	475
5c2	15'-1		4	5	63	4	5	63	4	5	63	4	5	63	4	5	63	4	5	63	4	5	63	4	5	63	4	5	63
5c3	VARIES		28	5	382	28	5	382	28	5	382	28	5	382	28	5	382	28	5	382	32	5	437	32	5	437	40	5	546
① TOTAL (LB.)			2871			2871			3028			3028			3028			3185			3433			3433			3542		
STRUCTURAL CONCRETE (CY)			22.6			22.6			22.6			22.6			22.6			22.6			22.6			22.6			22.6		

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL: d1 BAR				4e1 BAR				4e2 BAR				TOTAL WEIGHT (LB.)
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	
16	7'-0	11.2	36	10	10'-6	1627	16	4	11'-9	126	24	4	15'-11	255	2008
17	8'-0	12.8	36	10	11'-6	1781	18	4	11'-9	141	27	4	15'-11	287	2209
18	9'-0	14.4	36	10	12'-6	1936	20	4	11'-9	157	30	4	15'-11	319	2412
19	10'-0	16.0	36	10	13'-6	2091	22	4	11'-9	173	33	4	15'-11	351	2615
20	11'-0	17.5	36	10	14'-6	2246	24	4	11'-9	188	36	4	15'-11	383	2817
21	12'-0	19.1	36	10	15'-6	2401	26	4	11'-9	204	39	4	15'-11	415	3020
22	13'-0	20.7	36	10	16'-6	2556	28	4	11'-9	220	42	4	15'-11	447	3223
23	14'-0	22.3	36	10	17'-6	2711	30	4	11'-9	235	45	4	15'-11	478	3424
24	15'-0	23.9	36	10	18'-6	2866	32	4	11'-9	251	48	4	15'-11	510	3627
25	15'-6	24.7	36	10	19'-0	2943	32	4	11'-9	251	48	4	15'-11	510	3704
26	16'-6	26.3	36	10	20'-0	3098	34	4	11'-9	267	51	4	15'-11	542	3907
27	17'-6	27.9	36	10	21'-0	3253	36	4	11'-9	283	54	4	15'-11	574	4110
28	18'-6	29.5	36	10	22'-0	3408	38	4	11'-9	298	57	4	15'-11	606	4312
29	19'-6	31.1	36	10	23'-0	3563	40	4	11'-9	314	60	4	15'-11	638	4515
30	20'-6	32.7	36	10	24'-0	3718	42	4	11'-9	330	63	4	15'-11	670	4718
31	21'-6	34.3	36	10	25'-0	3873	44	4	11'-9	345	66	4	15'-11	702	4920
32	22'-6	35.9	36	10	26'-0	4028	46	4	11'-9	361	69	4	15'-11	734	5123
33	23'-6	37.5	36	10	27'-0	4183	48	4	11'-9	377	72	4	15'-11	766	5326
34	24'-6	39.1	36	10	28'-0	4337	50	4	11'-9	392	75	4	15'-11	797	5526
35	25'-6	40.7	36	10	29'-0	4492	52	4	11'-9	408	78	4	15'-11	829	5729
36	26'-6	42.3	36	10	30'-0	4647	54	4	11'-9	424	81	4	15'-11	861	5932
37	27'-6	43.9	36	10	31'-0	4802	56	4	11'-9	440	84	4	15'-11	893	6135
38	28'-6	45.5	36	10	32'-0	4957	58	4	11'-9	455	87	4	15'-11	925	6337
39	29'-6	47.1	36	10	33'-0	5112	60	4	11'-9	471	90	4	15'-11	957	6540
40	30'-6	48.7	36	10	34'-0	5267	62	4	11'-9	487	93	4	15'-11	989	6743

BENT BAR DETAILS



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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

TEE PIER CAP AND COLUMN
30° SKEW

H30-59-06