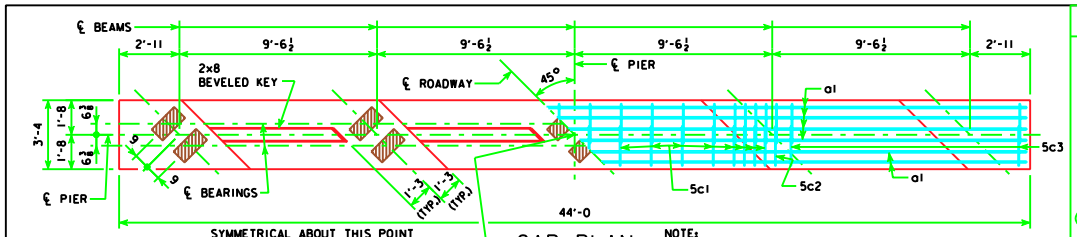
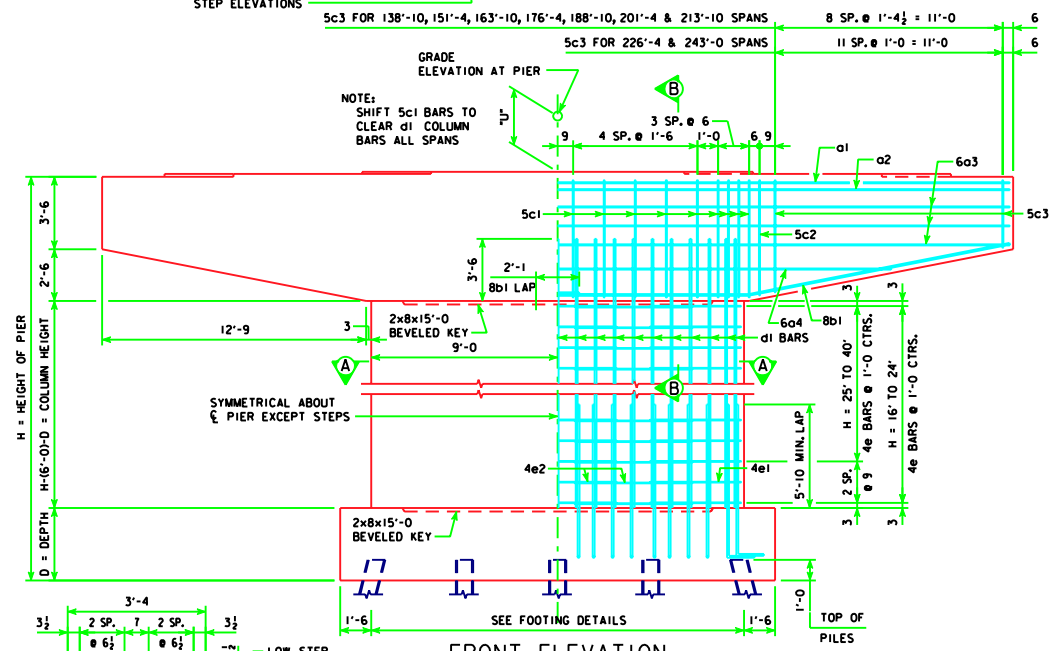


SYMMETRICAL ABOUT THIS POINT THROUGH 180° ROTATION EXCEPT STEP ELEVATIONS

CAP PLAN

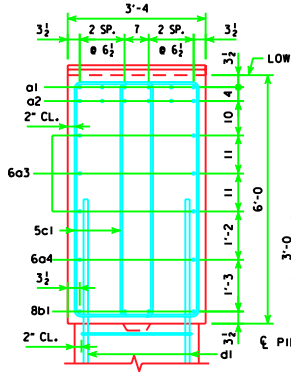
NOTE: FOR SIZE OF BEARING PADS SEE H30-44-06.



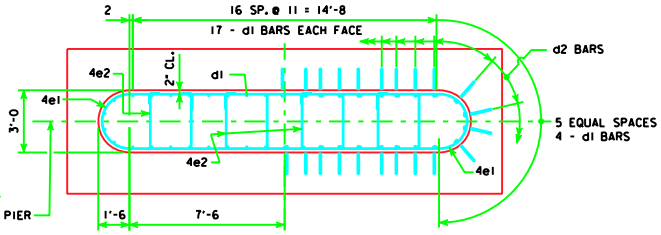
FRONT ELEVATION

NOTE:
SHIFT 5c1 BARS TO CLEAR d1 COLUMN BARS ALL SPANS

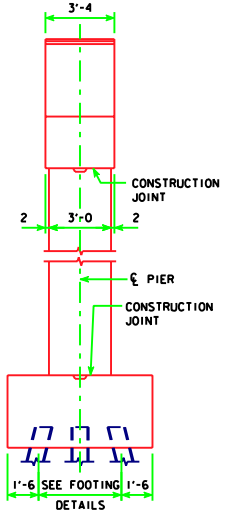
(1) SEE SHEET H30-31-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.



SECTION B-B



SECTION A-A



END ELEVATION

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 H30-29-06 FOR "U" DIMENSION.

CAP

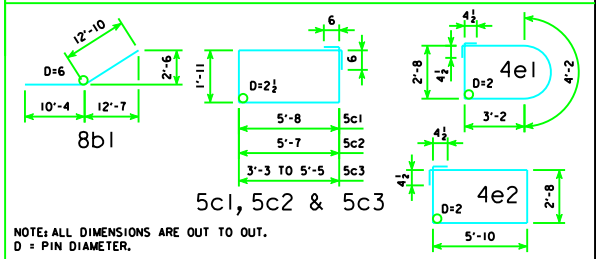
REINFORCING STEEL (1)	℄ - ℄ ABUT. BEARINGS		138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	43'-8		6	9	891	6	9	891	6	9	891	6	9	891	6	10	1127	6	10	1127	6	10	1127	6	10	1127
a2	43'-8		6	8	700	6	8	700	6	9	891	6	9	891	6	9	891	6	10	1127	6	10	1127	6	10	1127
6a3	43'-8		6	6	394	6	6	394	6	6	394	6	6	394	6	6	394	6	6	394	6	6	394	6	6	394
6a4	32'-2		2	6	97	2	6	97	2	6	97	2	6	97	2	6	97	2	6	97	2	6	97	2	6	97
8b1	23'-2		8	8	495	8	8	495	8	8	495	8	8	495	8	8	495	8	8	495	8	8	495	8	8	495
5c1	16'-2		36	5	607	36	5	607	36	5	607	36	5	607	36	5	607	36	5	607	36	5	607	36	5	607
5c2	16'-0		4	5	67	4	5	67	4	5	67	4	5	67	4	5	67	4	5	67	4	5	67	4	5	67
5c3	VARIES		36	5	507	36	5	507	36	5	507	36	5	507	36	5	507	36	5	507	36	5	507	48	5	676
TOTAL (LB.)			3758			3758			3949			3949			4185			4421			4421			4590		
STRUCTURAL CONCRETE (CY)			29.7			29.7			29.7			29.7			29.7			29.7			29.7			29.7		

REINFORCING STEEL (1)	℄ - ℄ ABUT. BEARINGS		243'-0		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT
a1	43'-8		6	11	1392
a2	43'-8		6	10	1127
6a3	43'-8		6	6	394
6a4	32'-2		2	6	97
8b1	23'-2		8	8	495
5c1	16'-2		36	5	607
5c2	16'-0		4	5	67
5c3	VARIES		48	5	676
TOTAL (LB.)			4855		
STRUCTURAL CONCRETE (CY)			29.7		

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	6'-6	12.5	42	10	10'-0	1807	14	4	13'-11	130	21	4	17'-9	249	2186
17	7'-6	14.5	42	10	11'-0	1988	16	4	13'-11	149	24	4	17'-9	285	2422
18	8'-6	16.4	42	10	12'-0	2169	18	4	13'-11	167	27	4	17'-9	320	2656
19	9'-6	18.3	42	10	13'-0	2349	20	4	13'-11	186	30	4	17'-9	356	2891
20	10'-6	20.2	42	10	14'-0	2530	22	4	13'-11	205	33	4	17'-9	391	3126
21	11'-6	22.2	42	10	15'-0	2711	24	4	13'-11	223	36	4	17'-9	427	3361
22	12'-6	24.1	42	10	16'-0	2892	26	4	13'-11	242	39	4	17'-9	462	3596
23	13'-6	26.0	42	10	17'-0	3072	28	4	13'-11	260	42	4	17'-9	498	3830
24	14'-6	28.0	42	10	18'-0	3253	30	4	13'-11	279	45	4	17'-9	534	4066
25	15'-0	28.9	42	10	18'-6	3343	32	4	13'-11	297	48	4	17'-9	569	4209
26	16'-0	30.9	42	10	19'-6	3524	34	4	13'-11	316	51	4	17'-9	605	4445
27	17'-0	32.8	42	10	20'-6	3705	36	4	13'-11	335	54	4	17'-9	640	4680
28	18'-0	34.7	42	10	21'-6	3886	38	4	13'-11	353	57	4	17'-9	676	4915
29	19'-0	36.6	42	10	22'-6	4066	40	4	13'-11	372	60	4	17'-9	711	5149
30	20'-0	38.6	42	10	23'-6	4247	42	4	13'-11	390	63	4	17'-9	747	5384
31	21'-0	40.5	42	10	24'-6	4428	44	4	13'-11	409	66	4	17'-9	783	5620
32	22'-0	42.4	42	10	25'-6	4609	46	4	13'-11	428	69	4	17'-9	818	5855
33	23'-0	44.4	42	10	26'-6	4789	48	4	13'-11	446	72	4	17'-9	854	6089
34	24'-0	46.3	42	10	27'-6	4970	50	4	13'-11	465	75	4	17'-9	889	6324
35	25'-0	48.2	42	10	28'-6	5151	52	4	13'-11	483	78	4	17'-9	925	6559
36	26'-0	50.1	42	10	29'-6	5331	54	4	13'-11	502	81	4	17'-9	960	6793
37	27'-0	52.1	42	10	30'-6	5512	56	4	13'-11	521	84	4	17'-9	996	7029
38	28'-0	54.0	42	10	31'-6	5693	58	4	13'-11	539	87	4	17'-9	1032	7264
39	29'-0	55.9	42	10	32'-6	5874	60	4	13'-11	558	90	4	17'-9	1067	7499
40	30'-0	57.9	42	10	33'-6	6054	62	4	13'-11	576	93	4	17'-9	1103	7733

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
45° SKEW

H30-64-06