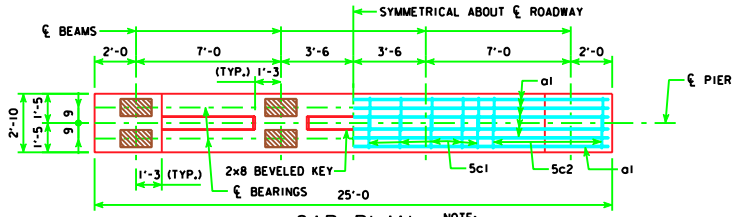
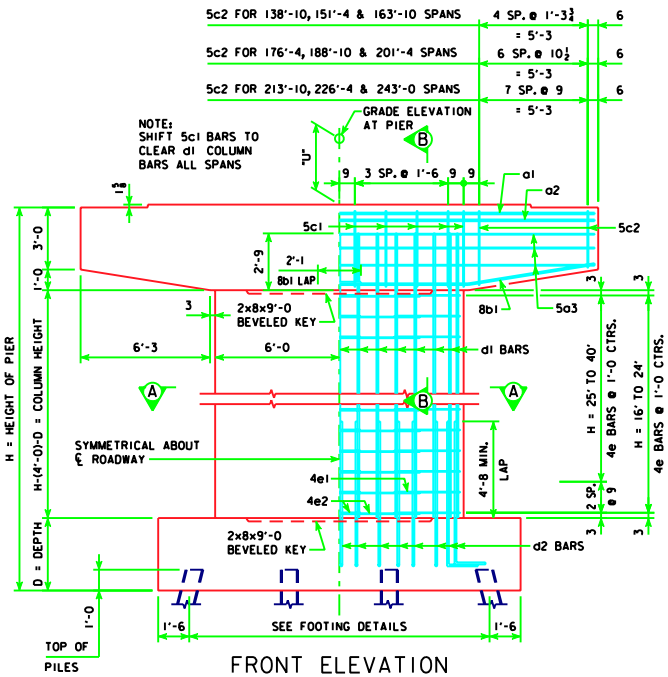
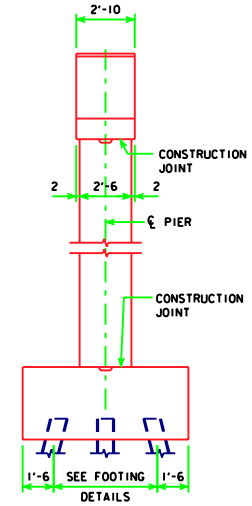


CAP PLAN

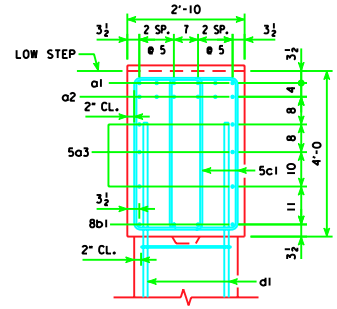
NOTE:
FOR SIZE OF BEARING PADS SEE H24-41-06.



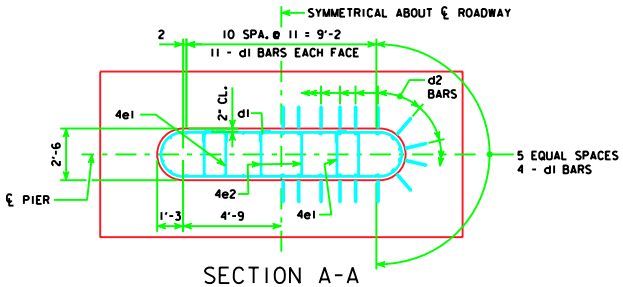
FRONT ELEVATION



END ELEVATION



SECTION B-B



SECTION A-A

PIER NOTES:

SEE "TEE PIER NOTES" ON H24-01-06 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 H24-09-06 FOR "U" DIMENSION.

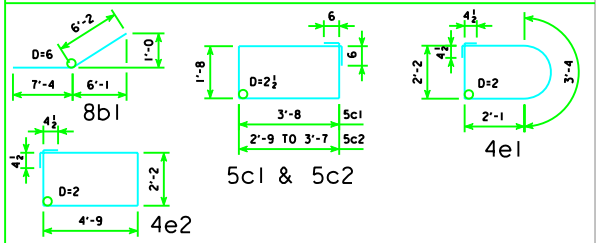
CAP

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	24'-8		6	7	303	6	7	303	6	7	303	6	8	395	6	8	395	6	8	395	6	8	395	6	9	503	6	9	503
a2	24'-8		6	7	303	6	7	303	6	7	303	6	7	303	6	7	303	6	8	395	6	8	395	6	8	395	6	8	395
5a3	24'-8		6	5	154	6	5	154	6	5	154	6	5	154	6	5	154	6	5	154	6	5	154	6	5	154	6	5	154
8b1	13'-6		8	8	288	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288
5c1	11'-8		20	5	243	20	5	243	20	5	243	20	5	243	20	5	243	20	5	243	20	5	243	20	5	243	20	5	243
5c2	VARIES		20	5	223	20	5	223	20	5	223	28	5	312	28	5	312	28	5	312	32	5	356	32	5	356	32	5	356
TOTAL (LB.)			1514			1514			1514			1695			1695			1787			1831			1939			1939		
STRUCTURAL CONCRETE (CY)			10.1			10.1			10.1			10.1			10.1			10.1			10.1			10.1			10.1		

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	8'-6	9.0	30	9	11'-3	1148	18	4	10'-5	125	18	4	14'-7	175	1448
17	9'-6	10.1	30	9	12'-3	1250	20	4	10'-5	139	20	4	14'-7	195	1584
18	10'-6	11.1	30	9	13'-3	1352	22	4	10'-5	153	22	4	14'-7	214	1719
19	11'-6	12.2	30	9	14'-3	1454	24	4	10'-5	167	24	4	14'-7	234	1855
20	12'-6	13.3	30	9	15'-3	1556	26	4	10'-5	181	26	4	14'-7	253	1990
21	13'-6	14.3	30	9	16'-3	1658	28	4	10'-5	195	28	4	14'-7	273	2126
22	14'-6	15.4	30	9	17'-3	1760	30	4	10'-5	209	30	4	14'-7	292	2261
23	15'-6	16.5	30	9	18'-3	1862	32	4	10'-5	223	32	4	14'-7	312	2397
24	16'-6	17.5	30	9	19'-3	1964	34	4	10'-5	237	34	4	14'-7	331	2532
25	17'-0	18.0	30	9	19'-9	2015	36	4	10'-5	251	36	4	14'-7	351	2617
26	18'-0	19.1	30	9	20'-9	2117	38	4	10'-5	264	38	4	14'-7	370	2751
27	19'-0	20.2	30	9	21'-9	2219	40	4	10'-5	278	40	4	14'-7	390	2887
28	20'-0	21.2	30	9	22'-9	2321	42	4	10'-5	292	42	4	14'-7	409	3022
29	21'-0	22.3	30	9	23'-9	2423	44	4	10'-5	306	44	4	14'-7	429	3158
30	22'-0	23.4	30	9	24'-9	2525	46	4	10'-5	320	46	4	14'-7	448	3293
31	23'-0	24.4	30	9	25'-9	2627	48	4	10'-5	334	48	4	14'-7	468	3429
32	24'-0	25.5	30	9	26'-9	2729	50	4	10'-5	348	50	4	14'-7	487	3564
33	25'-0	26.5	30	9	27'-9	2831	52	4	10'-5	362	52	4	14'-7	507	3700
34	26'-0	27.6	30	9	28'-9	2933	54	4	10'-5	376	54	4	14'-7	526	3835
35	27'-0	28.7	30	9	29'-9	3035	56	4	10'-5	390	56	4	14'-7	546	3971
36	28'-0	29.7	30	9	30'-9	3137	58	4	10'-5	404	58	4	14'-7	565	4106
37	29'-0	30.8	30	9	31'-9	3239	60	4	10'-5	418	60	4	14'-7	585	4242
38	30'-0	31.8	30	9	32'-9	3341	62	4	10'-5	431	62	4	14'-7	604	4376
39	31'-0	32.9	30	9	33'-9	3443	64	4	10'-5	445	64	4	14'-7	623	4511
40	32'-0	34.0	30	9	34'-9	3545	66	4	10'-5	459	66	4	14'-7	643	4647

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 STANDARDS FOR THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER 2006 HS25 SUBSTRUCTURE

TEE PIER
CAP AND COLUMN
0° SKEW

H24-46-06