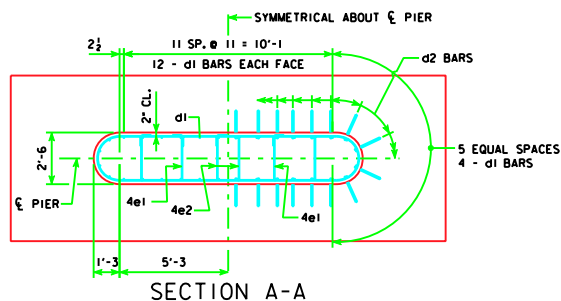
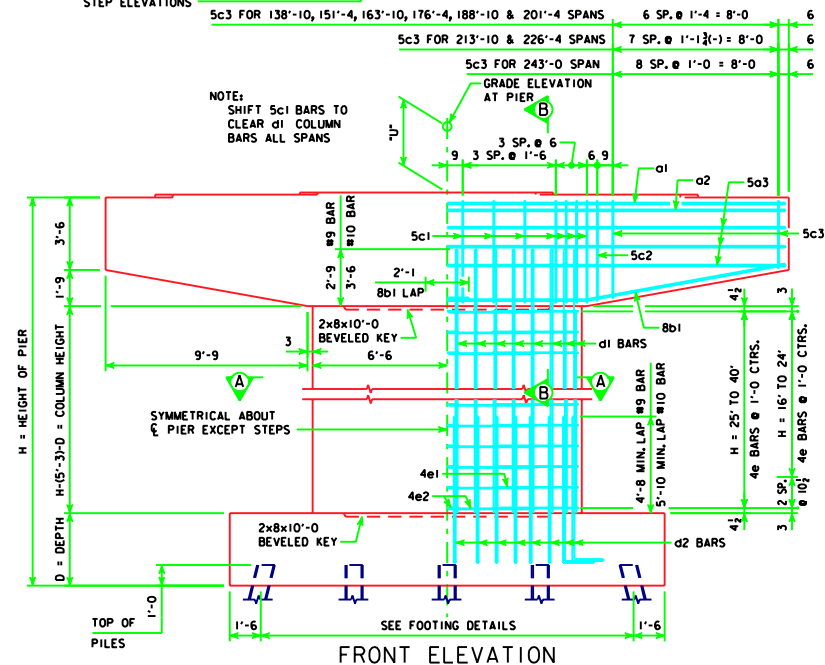
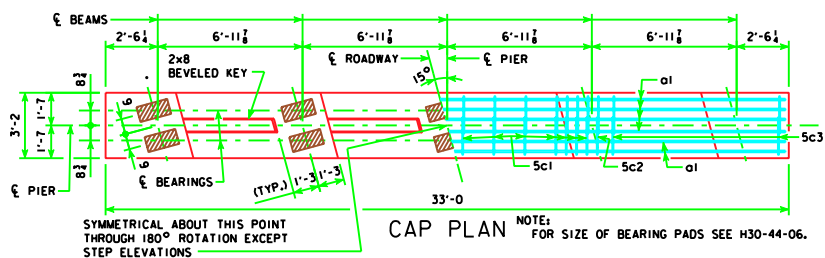


END ELEVATION

① SEE SHEET H30-17-06 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 H30-15-06 FOR "U" DIMENSION.

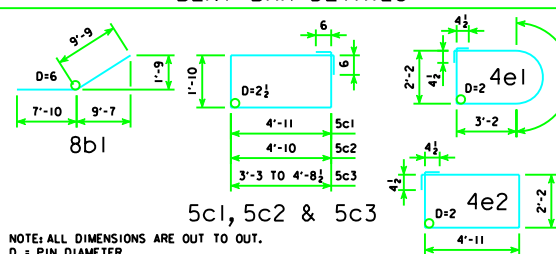
CAP

REINFORCING STEEL	ABUT. BEARINGS	138'-10"	151'-4"	163'-10"	176'-4"	188'-10"	201'-4"	213'-10"	226'-4"	243'-0"
BAR	LENGTH	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	32'-8"	6	8	523	6	8	523	6	9	666
a2	32'-8"	6	7	401	6	8	523	6	9	666
5a3	32'-8"	6	5	204	6	5	204	6	5	204
8b1	17'-7"	8	8	376	8	8	376	8	8	376
5c1	14'-6"	28	5	423	28	5	423	28	5	423
5c2	14'-4"	4	5	60	4	5	60	4	5	60
5c3	VARIES	28	5	369	28	5	369	28	5	369
TOTAL (L.B.)		2356		2478		2478		2621		2621
STRUCTURAL CONCRETE (CY)		18.9		18.9		18.9		18.9		18.9

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (L.B.)
			d1 BAR			4e1 BAR			4e2 BAR						
			NO.	SIZE	LENGTH WEIGHT	NO.	SIZE	LENGTH WEIGHT	NO.	SIZE	LENGTH WEIGHT				
16	7'-3"	8.4	32	9	10'-0"	1088	16	4	12'-7"	134	16	4	14'-11"	159	1381
17	8'-3"	9.5	32	9	11'-0"	1197	18	4	12'-7"	151	18	4	14'-11"	179	1527
18	9'-3"	10.7	32	9	12'-0"	1306	20	4	12'-7"	168	20	4	14'-11"	199	1673
19	10'-3"	11.8	32	9	13'-0"	1414	22	4	12'-7"	185	22	4	14'-11"	219	1818
20	11'-3"	13.0	32	9	14'-0"	1523	24	4	12'-7"	202	24	4	14'-11"	239	1964
21	12'-3"	14.1	32	9	15'-0"	1632	26	4	12'-7"	219	26	4	14'-11"	259	2110
22	13'-3"	15.3	32	9	16'-0"	1741	28	4	12'-7"	235	28	4	14'-11"	279	2255
23	14'-3"	16.4	32	9	17'-0"	1850	30	4	12'-7"	252	30	4	14'-11"	299	2401
24	15'-3"	17.6	32	9	18'-0"	1958	32	4	12'-7"	269	32	4	14'-11"	319	2546
25	15'-9"	18.2	32	9	18'-6"	2013	32	4	12'-7"	269	32	4	14'-11"	319	2601
26	16'-9"	19.3	32	9	19'-6"	2122	34	4	12'-7"	286	34	4	14'-11"	339	2747
27	17'-9"	20.5	32	9	20'-6"	2230	36	4	12'-7"	303	36	4	14'-11"	359	2892
28	18'-9"	21.6	32	9	21'-6"	2339	38	4	12'-7"	319	38	4	14'-11"	379	3037
29	19'-9"	22.8	32	9	22'-6"	2448	40	4	12'-7"	336	40	4	14'-11"	399	3183
30	20'-9"	23.9	32	9	23'-6"	2557	42	4	12'-7"	353	42	4	14'-11"	419	3329
31	21'-9"	25.1	32	9	24'-6"	2666	44	4	12'-7"	370	44	4	14'-11"	438	3474
32	22'-9"	26.3	32	9	25'-6"	2774	46	4	12'-7"	387	46	4	14'-11"	458	3619
33	23'-9"	27.4	32	9	26'-6"	2883	48	4	12'-7"	403	48	4	14'-11"	478	3764
34	24'-9"	28.6	32	9	27'-6"	2992	50	4	12'-7"	420	50	4	14'-11"	498	3910
35	25'-9"	29.7	32	9	28'-6"	3101	52	4	12'-7"	437	52	4	14'-11"	518	4056
36	26'-9"	30.9	32	9	29'-6"	3210	54	4	12'-7"	454	54	4	14'-11"	538	4202
37	27'-9"	32.0	32	10	31'-3"	4303	56	4	12'-7"	471	56	4	14'-11"	558	5332
38	28'-9"	33.2	32	10	32'-3"	4441	58	4	12'-7"	488	58	4	14'-11"	578	5507
39	29'-9"	34.3	32	10	33'-3"	4578	60	4	12'-7"	504	60	4	14'-11"	598	5680
40	30'-9"	35.5	32	10	34'-3"	4716	62	4	12'-7"	521	62	4	14'-11"	618	5855

BENT BAR DETAILS



5c1, 5c2 & 5c3

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
15° SKEW

H30-54-06