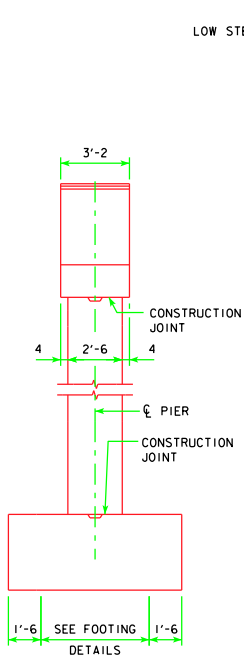
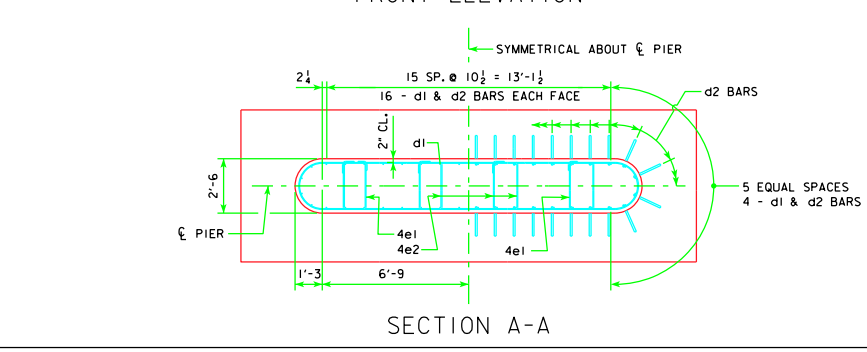
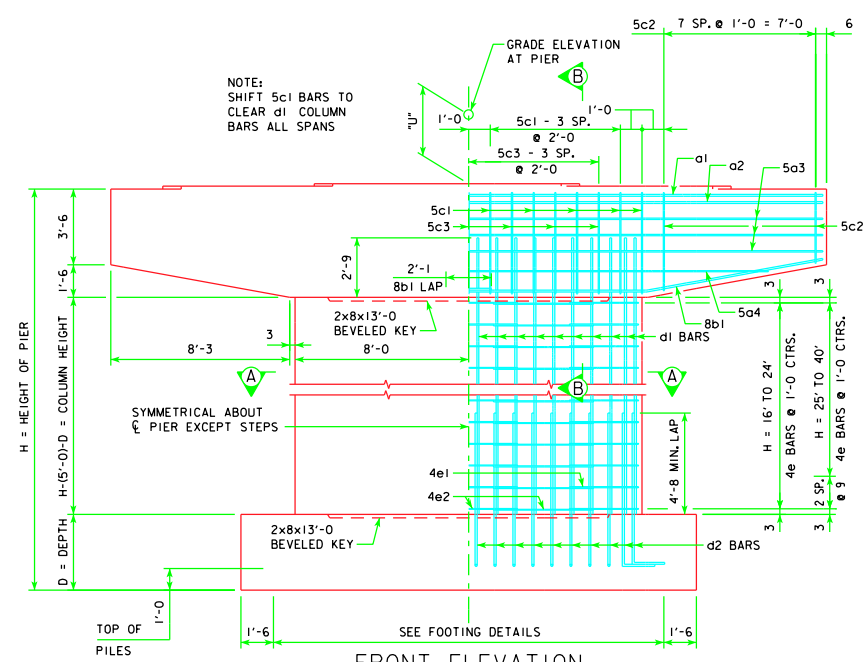
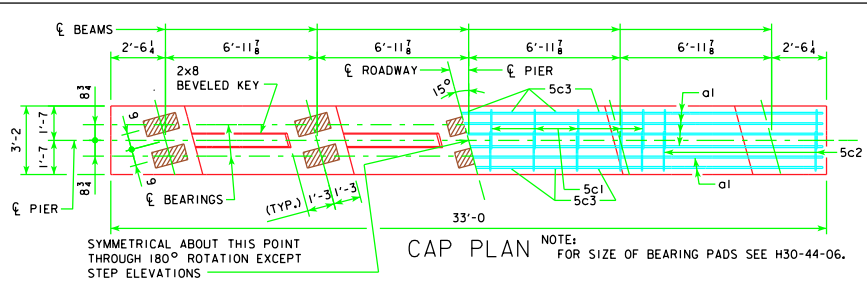


REVISED 07-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.



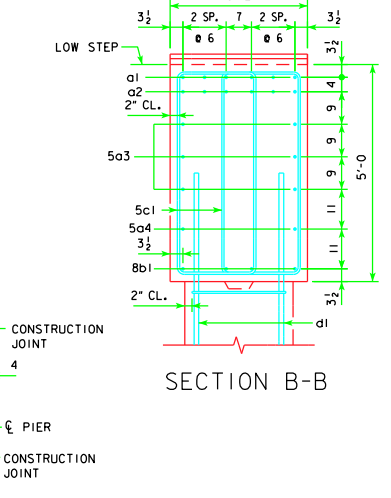
END ELEVATION

① SEE SHEET H30-17-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

PIER NOTES:
 SEE "TEE PIER NOTES" ON H30-02-06 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

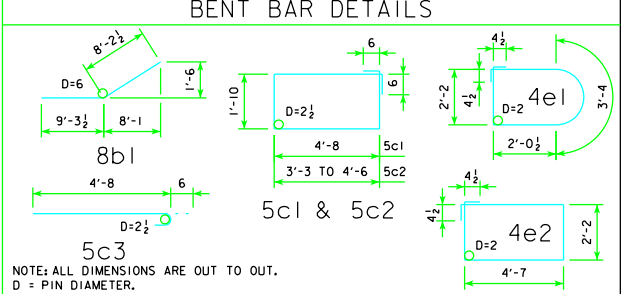
REINFORCING STEEL	138'-10		151'-4		163'-10		176'-4		188'-10		201'-4		213'-10		226'-4		243'-0						
	BAR	LENGTH	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT			
a1	32'-8	6	7	401	6	7	401	6	8	523	6	8	523	6	8	523	6	9	666	6	9	666	
a2	32'-8	6	7	401	6	7	401	6	7	401	6	7	401	6	8	523	6	8	523	6	8	523	
5c3	32'-8	6	5	204	6	5	204	6	5	204	6	5	204	6	5	204	6	5	204	6	5	204	
5c4	27'-7	2	5	58	2	5	58	2	5	58	2	5	58	2	5	58	2	5	58	2	5	58	
8b1	17'-6	8	8	374	8	8	374	8	8	374	8	8	374	8	8	374	8	8	374	8	8	374	
5c1	14'-0	20	5	292	20	5	292	20	5	292	20	5	292	20	5	292	20	5	292	20	5	292	
5c2	VARIABLES	32	5	414	32	5	414	32	5	414	32	5	414	32	5	414	32	5	414	32	5	414	
5c3	5'-2	14	5	75	14	5	75	14	5	75	14	5	75	14	5	75	14	5	75	14	5	75	
TOTAL (LB.)				2219		2219		2341		2341		2341		2463		2463		2606		2606		2606	
STRUCTURAL CONCRETE (CY)				18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5		18.5	



SECTION B-B

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (LB.)								
			d1 BAR		4e1 BAR		4e2 BAR		4e1 BAR		4e2 BAR		4e1 BAR			4e2 BAR							
NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT
16	7'-6	10.7	40	9	10'-3	1394	16	4	10'-4	110	24	4	14'-3	228	1732								
17	8'-6	12.2	40	9	11'-3	1530	18	4	10'-4	124	27	4	14'-3	257	1911								
18	9'-6	13.6	40	9	12'-3	1666	20	4	10'-4	138	30	4	14'-3	286	2090								
19	10'-6	15.0	40	9	13'-3	1802	22	4	10'-4	152	33	4	14'-3	314	2268								
20	11'-6	16.5	40	9	14'-3	1938	24	4	10'-4	166	36	4	14'-3	343	2447								
21	12'-6	17.9	40	9	15'-3	2074	26	4	10'-4	179	39	4	14'-3	371	2624								
22	13'-6	19.3	40	9	16'-3	2210	28	4	10'-4	193	42	4	14'-3	400	2803								
23	14'-6	20.8	40	9	17'-3	2346	30	4	10'-4	207	45	4	14'-3	428	2981								
24	15'-6	22.2	40	9	18'-3	2482	32	4	10'-4	221	48	4	14'-3	457	3160								
25	16'-0	22.9	40	9	18'-9	2550	34	4	10'-4	235	51	4	14'-3	485	3270								
26	17'-0	24.3	40	9	19'-9	2686	36	4	10'-4	248	54	4	14'-3	514	3448								
27	18'-0	25.8	40	9	20'-9	2822	38	4	10'-4	262	57	4	14'-3	543	3627								
28	19'-0	27.2	40	9	21'-9	2958	40	4	10'-4	276	60	4	14'-3	571	3805								
29	20'-0	28.6	40	9	22'-9	3094	42	4	10'-4	290	63	4	14'-3	600	3984								
30	21'-0	30.1	40	9	23'-9	3230	44	4	10'-4	304	66	4	14'-3	628	4162								
31	22'-0	31.5	40	9	24'-9	3366	46	4	10'-4	318	69	4	14'-3	657	4341								
32	23'-0	32.9	40	9	25'-9	3502	48	4	10'-4	331	72	4	14'-3	685	4518								
33	24'-0	34.4	40	9	26'-9	3638	50	4	10'-4	345	75	4	14'-3	714	4697								
34	25'-0	35.8	40	9	27'-9	3774	52	4	10'-4	359	78	4	14'-3	742	4875								
35	26'-0	37.2	40	9	28'-9	3910	54	4	10'-4	373	81	4	14'-3	771	5054								
36	27'-0	38.7	40	9	29'-9	4046	56	4	10'-4	387	84	4	14'-3	800	5233								
37	28'-0	40.1	40	9	30'-9	4182	58	4	10'-4	400	87	4	14'-3	828	5410								
38	29'-0	41.5	40	9	31'-9	4318	60	4	10'-4	414	90	4	14'-3	857	5589								
39	30'-0	43.0	40	9	32'-9	4454	62	4	10'-4	428	93	4	14'-3	885	5767								
40	31'-0	44.4	40	9	33'-9	4590	64	4	10'-4	442	96	4	14'-3	914	5946								



Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
 DECEMBER, 2006

07-10 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	TEE PIER CAP AND COLUMN 15° SKEW	H30-64-06
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