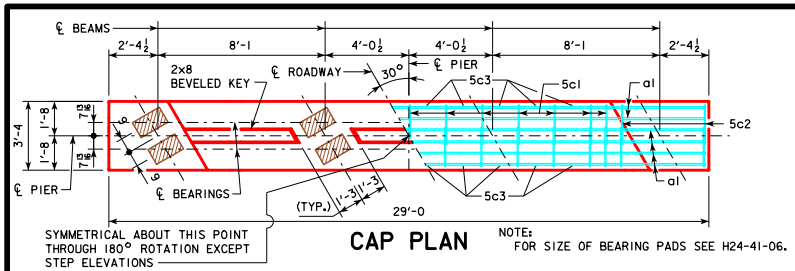


CAP PLAN

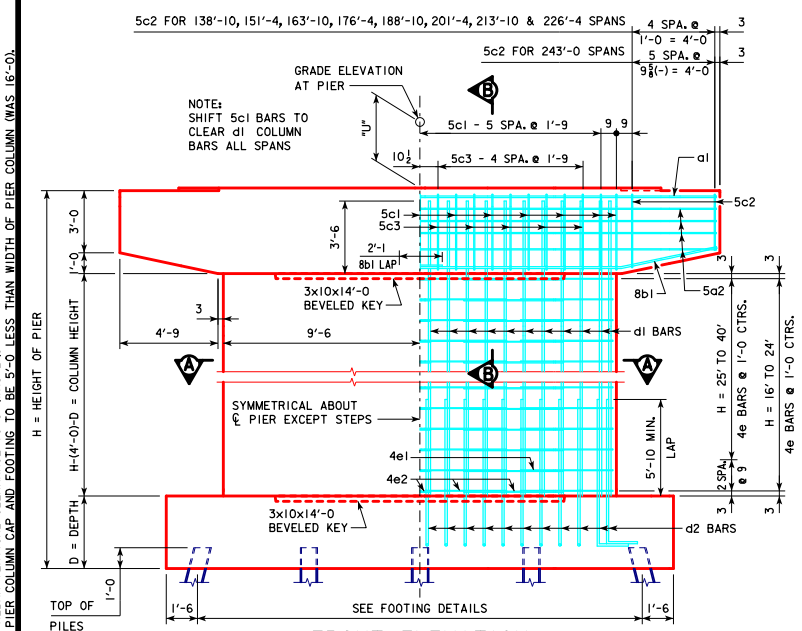
NOTE:
FOR SIZE OF BEARING PADS SEE H24-41-06.

CAP

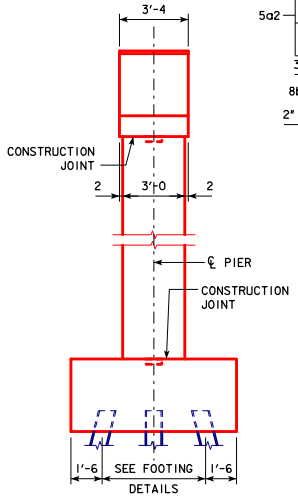
REINFORCING STEEL	℄ - ℄ ABUT. BEARINGS		138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-0		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	28'-8		6	9	585	6	9	585	6	9	585	6	9	585	6	9	585	6	9	585	6	9	585	6	9	585	6	10	740
5a2	28'-8		8	5	239	8	5	239	8	5	239	8	5	239	8	5	239	8	5	239	8	5	239	8	5	239	8	5	239
8b1	15'-6		8	8	331	8	8	331	8	8	331	8	8	331	8	8	331	8	8	331	8	8	331	8	8	331	8	8	331
5c1	12'-2		26	5	330	26	5	330	26	5	330	26	5	330	26	5	330	26	5	330	26	5	330	26	5	330	26	5	330
5c2	VARIES		20	5	232	20	5	232	20	5	232	20	5	232	20	5	232	20	5	232	20	5	232	20	5	232	24	5	278
5c3	4'-2		20	5	87	20	5	87	20	5	87	20	5	87	20	5	87	20	5	87	20	5	87	20	5	87	20	5	87
① TOTAL (LB.)			1804			1804			1804			1804			1804			1804			1804			1804			2005		
STRUCTURAL CONCRETE (CY)			14.2			14.2			14.2			14.2			14.2			14.2			14.2			14.2			14.2		

COLUMN

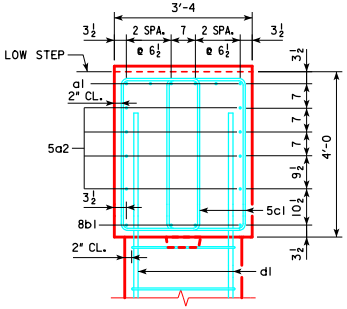
H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL: d1 BAR				4e1 BAR				4e2 BAR				TOTAL WEIGHT (LB.)
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	
16	8'-6	17.3	44	10	12'-0	2272	18	4	13'-9	165	36	4	15'-9	379	2816
17	9'-6	19.4	44	10	13'-0	2461	20	4	13'-9	184	40	4	15'-9	421	3066
18	10'-6	21.4	44	10	14'-0	2651	22	4	13'-9	202	44	4	15'-9	463	3316
19	11'-6	23.5	44	10	15'-0	2840	24	4	13'-9	220	48	4	15'-9	505	3565
20	12'-6	25.5	44	10	16'-0	3029	26	4	13'-9	239	52	4	15'-9	547	3815
21	13'-6	27.5	44	10	17'-0	3219	28	4	13'-9	257	56	4	15'-9	589	4065
22	14'-6	29.6	44	10	18'-0	3408	30	4	13'-9	276	60	4	15'-9	631	4315
23	15'-6	31.6	44	10	19'-0	3597	32	4	13'-9	294	64	4	15'-9	673	4564
24	16'-6	33.7	44	10	20'-0	3787	34	4	13'-9	312	68	4	15'-9	715	4814
25	17'-0	34.7	44	10	20'-6	3881	36	4	13'-9	331	72	4	15'-9	758	4970
26	18'-0	36.7	44	10	21'-6	4071	38	4	13'-9	349	76	4	15'-9	800	5220
27	19'-0	38.8	44	10	22'-6	4260	40	4	13'-9	367	80	4	15'-9	842	5469
28	20'-0	40.8	44	10	23'-6	4449	42	4	13'-9	386	84	4	15'-9	884	5719
29	21'-0	42.8	44	10	24'-6	4639	44	4	13'-9	404	88	4	15'-9	926	5969
30	22'-0	44.9	44	10	25'-6	4828	46	4	13'-9	423	92	4	15'-9	968	6219
31	23'-0	46.9	44	10	26'-6	5017	48	4	13'-9	441	96	4	15'-9	1010	6468
32	24'-0	48.9	44	10	27'-6	5207	50	4	13'-9	459	100	4	15'-9	1052	6718
33	25'-0	51.0	44	10	28'-6	5396	52	4	13'-9	478	104	4	15'-9	1094	6968
34	26'-0	53.0	44	10	29'-6	5585	54	4	13'-9	496	108	4	15'-9	1136	7217
35	27'-0	55.1	44	10	30'-6	5775	56	4	13'-9	514	112	4	15'-9	1178	7467
36	28'-0	57.1	44	10	31'-6	5964	58	4	13'-9	533	116	4	15'-9	1220	7717
37	29'-0	59.1	44	10	32'-6	6153	60	4	13'-9	551	120	4	15'-9	1263	7967
38	30'-0	61.2	44	10	33'-6	6343	62	4	13'-9	569	124	4	15'-9	1305	8217
39	31'-0	63.2	44	10	34'-6	6532	64	4	13'-9	588	128	4	15'-9	1347	8467
40	32'-0	65.3	44	10	35'-6	6721	66	4	13'-9	606	132	4	15'-9	1389	8716



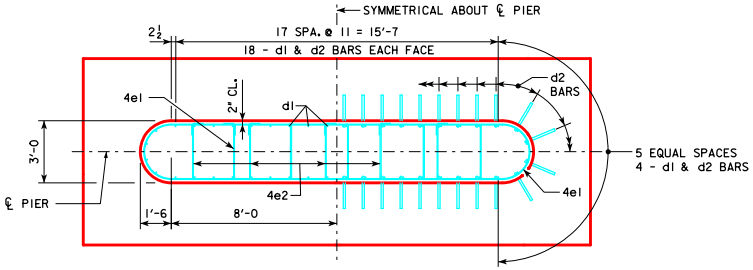
FRONT ELEVATION



END ELEVATION



SECTION B-B



SECTION A-A

① SEE SHEET H24-24-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

PIER NOTES:

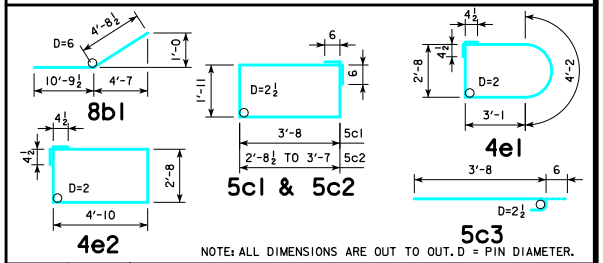
SEE "TEE PIER NOTES" ON H24-02-06 FOR NOTES REGARDING APPLICATION OF THESE PIER STANDARDS.

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 H24-22-06 FOR "U" DIMENSION.

BENT BAR DETAILS



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

10-2016
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER CAP AND COLUMN

30° SKEW

H24-64-06

REVISED 01-10- SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.
REVISED 09-2016 - CHANGED TOP OF FOOTING TO TOP OF REBAR VERTICAL CLEARANCE TO 3" (WAS 2").
REVISED 10-2016 - CHANGED BEVELED KEYWAY LENGTH OF PIER COLUMN CAP AND FOOTING TO BE 5'-0 LESS THAN WIDTH OF PIER COLUMN (WAS 16'-0).