



CAP

REINFORCING STEEL	CL - CL 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	
o1	42'-8	6	9	870	6	9	870	6	10	1102	6	10	1102	6	11	1360	6	11	1360	6	11	1360
o2	42'-8	6	9	870	6	9	870	6	9	870	6	9	870	6	10	1102	6	10	1102	6	10	1102
6o3	42'-8	6	6	385	6	6	385	6	6	385	6	6	385	6	6	385	6	6	385	6	6	385
6o4	VARIES	6	6	298	6	6	298	6	6	298	6	6	298	6	6	298	6	6	298	6	6	298
8b1	22'-9	8	8	486	8	8	486	8	8	486	8	8	486	8	8	486	8	8	486	8	8	486
5c1	17'-0	26	5	461	26	5	461	26	5	461	26	5	461	26	5	461	26	5	461	26	5	461
5c2	VARIES	16	5	269	16	5	269	16	5	269	16	5	269	16	5	269	16	5	269	16	5	269
5c3	VARIES	36	5	496	36	5	496	36	5	496	36	5	496	36	5	496	36	5	496	36	5	496
5c4	6'-8	16	5	111	16	5	111	16	5	111	16	5	111	16	5	111	16	5	111	16	5	111
TOTAL (LB.)				4246		4246		4478		4478		4478		4777		5035		5035		5428		
STRUCTURAL CONCRETE (CY)				29.5		29.5		29.5		29.5		29.5		29.5		29.5		29.5		29.5		

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (LB.)
			d1 BAR		4e1 BAR		4e2 BAR		4e2 BAR		4e2 BAR		TOTAL WEIGHT (LB.)		
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE		LENGTH	
16	6'-0	9.7	46	9	8'-9	1369	14	4	11'-11	111	28	4	13'-10	259	1739
17	7'-0	11.3	46	9	9'-9	1525	16	4	11'-11	127	32	4	13'-10	296	1948
18	8'-0	12.9	46	9	10'-9	1681	18	4	11'-11	143	36	4	13'-10	333	2157
19	9'-0	14.6	46	9	11'-9	1838	20	4	11'-11	159	40	4	13'-10	370	2367
20	10'-0	16.2	46	9	12'-9	1994	22	4	11'-11	175	44	4	13'-10	407	2576
21	11'-0	17.8	46	9	13'-9	2151	24	4	11'-11	191	48	4	13'-10	444	2786
22	12'-0	19.4	46	9	14'-9	2307	26	4	11'-11	207	52	4	13'-10	481	2995
23	13'-0	21.0	46	9	15'-9	2463	28	4	11'-11	223	56	4	13'-10	517	3203
24	14'-0	22.6	46	9	16'-9	2620	30	4	11'-11	239	60	4	13'-10	554	3413
25	14'-6	23.4	46	9	17'-3	2698	30	4	11'-11	239	60	4	13'-10	554	3491
26	15'-6	25.1	46	9	18'-3	2854	32	4	11'-11	255	64	4	13'-10	591	3700
27	16'-6	26.7	46	9	19'-3	3011	34	4	11'-11	271	68	4	13'-10	628	3910
28	17'-6	28.3	46	9	20'-3	3167	36	4	11'-11	287	72	4	13'-10	665	4119
29	18'-6	29.9	46	9	21'-3	3324	38	4	11'-11	302	76	4	13'-10	702	4328
30	19'-6	31.5	46	9	22'-3	3480	40	4	11'-11	318	80	4	13'-10	739	4537
31	20'-6	33.1	46	9	23'-3	3636	42	4	11'-11	334	84	4	13'-10	776	4746
32	21'-6	34.8	46	9	24'-3	3793	44	4	11'-11	350	88	4	13'-10	813	4956
33	22'-6	36.4	46	9	25'-3	3949	46	4	11'-11	366	92	4	13'-10	850	5165
34	23'-6	38.0	46	9	26'-3	4106	48	4	11'-11	382	96	4	13'-10	887	5375
35	24'-6	39.6	46	9	27'-3	4262	50	4	11'-11	398	100	4	13'-10	924	5584
36	25'-6	41.2	46	9	28'-3	4418	52	4	11'-11	414	104	4	13'-10	961	5793
37	26'-6	42.9	46	9	29'-3	4575	54	4	11'-11	430	108	4	13'-10	998	6003
38	27'-6	44.5	46	9	30'-3	4731	56	4	11'-11	446	112	4	13'-10	1035	6212
39	28'-6	46.1	46	9	31'-3	4888	58	4	11'-11	462	116	4	13'-10	1072	6422
40	29'-6	47.7	46	9	32'-3	5044	60	4	11'-11	478	120	4	13'-10	1109	6631

SEE SHEET H40-17-06 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

LATEST REVISION DATE 01-10	 APPROVED BY BRIDGE ENGINEER		Iowa Department of Transportation Highway Division STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009
TEE PIER CAP AND COLUMN 15° SKEW		H40-66-06	