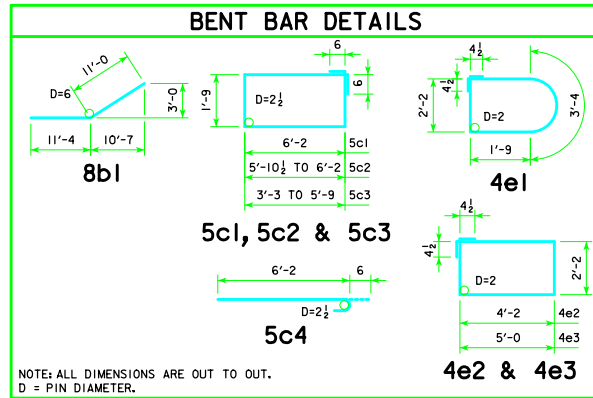


		CAP																									
C - C ABUT. BEARINGS		160'-0		180'-0		200'-0		220'-0		240'-0		260'-0		280'-0		300'-0		320'-0		340'-0							
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT				
a1	41'-8		6	9	850	6	9	850	6	9	850	6	10	1076	6	10	1076	6	11	1328	6	11	1328	6	11	1328	
a2	41'-8		6	8	668	6	8	668	6	9	850	6	9	850	6	10	1076	6	10	1076	6	11	1328	6	11	1328	
a3	41'-8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	6	125	2	9	283
6a4	41'-8		6	6	376	6	6	376	6	6	376	6	6	376	6	6	376	6	6	376	6	6	376	6	6	376	
6a5	39'-7		2	6	119	2	6	119	2	6	119	2	6	119	2	6	119	2	6	119	2	6	119	2	6	119	
6a6	34'-3		2	6	103	2	6	103	2	6	103	2	6	103	2	6	103	2	6	103	2	6	103	2	6	103	
6a7	27'-8		2	6	83	2	6	83	2	6	83	2	6	83	2	6	83	2	6	83	2	6	83	2	6	83	
8b1	22'-4		8	8	477	8	8	477	8	8	477	8	8	477	8	8	477	8	8	477	8	8	477	8	8	477	
5c1	16'-10		26	5	456	26	5	456	26	5	456	26	5	456	26	5	456	26	5	456	26	5	456	26	5	456	
5c2	VARIABLES		8	5	138	8	5	138	8	5	138	12	5	207	12	5	207	12	5	207	12	5	207	12	5	207	
5c3	VARIABLES		40	5	563	40	5	563	40	5	563	40	5	563	40	5	563	40	5	563	40	5	563	40	5	563	
5c4	6'-8		20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	20	5	139	
① TOTAL (LB.)			3972		3972		4154		4449		4675		4844		5096		5573		5698		5856						
STRUCTURAL CONCRETE (CY)			27.7		27.7		27.7		27.7		27.7		27.7		27.7		27.7		27.7		27.7						



NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

		COLUMN																	
H IN FEET		COLUMN HEIGHT		STRUCTURAL CONCRETE (CY)		REINFORCING STEEL													
						4e1 BAR		4e2 BAR		4e3 BAR		4e3 BAR		TOTAL WEIGHT (LB.)					
						NO. SIZE LENGTH WEIGHT		NO. SIZE LENGTH WEIGHT		NO. SIZE LENGTH WEIGHT		NO. SIZE LENGTH WEIGHT							
16	5'-6	9.9	54	9	8'-3	1515	12	4	9'-9	78	12	4	13'-5	108	18	4	15'-1	181	1882
17	6'-6	11.7	54	9	9'-3	1698	14	4	9'-9	91	14	4	13'-5	125	21	4	15'-1	212	2126
18	7'-6	13.5	54	9	10'-3	1882	16	4	9'-9	104	16	4	13'-5	143	24	4	15'-1	242	2371
19	8'-6	15.3	54	9	11'-3	2066	18	4	9'-9	117	18	4	13'-5	161	27	4	15'-1	272	2616
20	9'-6	17.1	54	9	12'-3	2249	20	4	9'-9	130	20	4	13'-5	179	30	4	15'-1	302	2860
21	10'-6	18.9	54	9	13'-3	2433	22	4	9'-9	143	22	4	13'-5	197	33	4	15'-1	332	3105
22	11'-6	20.7	54	9	14'-3	2616	24	4	9'-9	156	24	4	13'-5	215	36	4	15'-1	363	3350
23	12'-6	22.5	54	9	15'-3	2800	26	4	9'-9	169	26	4	13'-5	233	39	4	15'-1	393	3595
24	13'-6	24.3	54	9	16'-3	2984	28	4	9'-9	182	28	4	13'-5	251	42	4	15'-1	423	3840
25	14'-6	26.1	54	9	17'-3	3167	30	4	9'-9	195	30	4	13'-5	269	45	4	15'-1	453	4084
26	15'-6	27.9	54	9	18'-3	3351	32	4	9'-9	208	32	4	13'-5	287	48	4	15'-1	484	4330
27	16'-6	29.7	54	9	19'-3	3534	34	4	9'-9	221	34	4	13'-5	305	51	4	15'-1	514	4574
28	17'-6	31.5	54	9	20'-3	3718	36	4	9'-9	234	36	4	13'-5	323	54	4	15'-1	544	4819
29	18'-6	33.3	54	9	21'-3	3902	38	4	9'-9	247	38	4	13'-5	341	57	4	15'-1	574	5064
30	19'-6	35.1	54	9	22'-3	4085	40	4	9'-9	261	40	4	13'-5	358	60	4	15'-1	605	5309
31	20'-6	36.9	54	9	23'-3	4269	42	4	9'-9	274	42	4	13'-5	376	63	4	15'-1	635	5554
32	21'-6	38.7	54	9	24'-3	4452	44	4	9'-9	287	44	4	13'-5	394	66	4	15'-1	665	5798
33	22'-6	40.5	54	9	25'-3	4636	46	4	9'-9	300	46	4	13'-5	412	69	4	15'-1	695	6043
34	23'-6	42.4	54	9	26'-3	4820	48	4	9'-9	313	48	4	13'-5	430	72	4	15'-1	725	6288
35	24'-6	44.2	54	9	27'-3	5003	50	4	9'-9	326	50	4	13'-5	448	75	4	15'-1	756	6533
36	25'-6	46.0	54	9	28'-3	5187	52	4	9'-9	339	52	4	13'-5	466	78	4	15'-1	786	6778
37	26'-6	47.8	54	9	29'-3	5370	54	4	9'-9	352	54	4	13'-5	484	81	4	15'-1	816	7022
38	27'-6	49.6	54	9	30'-3	5554	56	4	9'-9	365	56	4	13'-5	502	84	4	15'-1	846	7267
39	28'-6	51.4	54	9	31'-3	5738	58	4	9'-9	378	58	4	13'-5	520	87	4	15'-1	877	7513
40	29'-6	53.2	54	9	32'-3	5921	60	4	9'-9	391	60	4	13'-5	538	90	4	15'-1	907	7757

PIER NOTES:

SEE "TEE PIER NOTES" ON RS40-003-14 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.

① SEE SHEET RS40-166-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Thomas E. McQuinn</i>	IOWA DOT Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES	
		ROLLED STEEL BEAM BRIDGES	
		OCTOBER, 2014	
		TEE PIER CAP & COLUMN DETAILS 10° SKEW	RS40-127-14