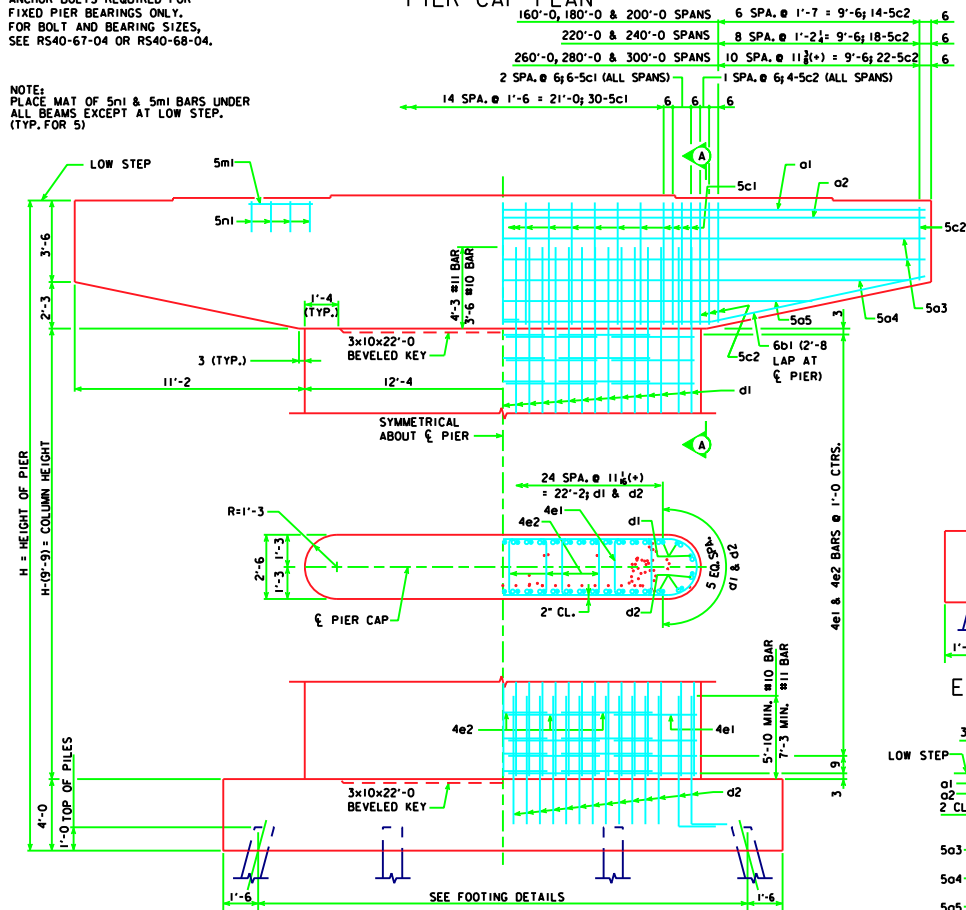


PIER CAP PLAN

NOTE:
ANCHOR BOLTS REQUIRED FOR
FIXED PIER BEARINGS ONLY.
FOR BOLT AND BEARING SIZES,
SEE RS40-67-04 OR RS40-68-04.

NOTE:
PLACE MAT OF 5n1 & 5m1 BARS UNDER
ALL BEAMS EXCEPT AT LOW STEP.
(TYP. FOR 5)



PIER ELEVATION

STEP NOTE:
THE HEIGHT OF THE STEPS ON THE BRIDGE SEAT IS
EQUAL TO THE DIFFERENCE IN ELEVATIONS OF
THE TOP OF SLAB AT ADJACENT BEAMS ALONG CL PIER.

ONE CAP																					
		6'-6" ABUT. BEARINGS		160'-0"		180'-0"		200'-0"		220'-0"		240'-0"		260'-0"		280'-0"		300'-0"			
REINFORCING STEEL	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
	a1	46'-8"		6	8	748	6	9	952	6	9	952	6	10	1205	6	10	1205	6	11	1488
	a2	46'-8"		6	8	748	6	9	952	6	9	952	6	10	1205	6	10	1205	6	11	1488
	a3	46'-8"		4	5	195	4	5	195	4	5	195	4	5	195	4	5	195	4	5	195
	a4	45'-0"		2	5	94	2	5	94	2	5	94	2	5	94	2	5	94	2	5	94
	a5	35'-6"		2	5	74	2	5	74	2	5	74	2	5	74	2	5	74	2	5	74
	b1	24'-11"		8	6	299	8	6	299	8	6	299	8	6	299	8	6	299	8	6	299
	c1	15'-4"		42	5	672	42	5	672	42	5	672	42	5	672	42	5	672	42	5	672
	c2	Varies		36	5	506	36	5	506	36	5	506	44	5	615	44	5	615	52	5	723
	n1	5'-8"		20	5	118	20	5	118	20	5	118	20	5	118	20	5	118	20	5	118
m1	2'-10"	20		5	59	20	5	59	20	5	59	20	5	59	20	5	59	20	5	59	
TOTAL LB.				3513		3717		3921		4040		4283		4644		4644		4927			
STRUCTURAL CONCRETE (C.Y.)				28.3		28.3		28.3		28.3		28.3		28.3		28.3		28.3			

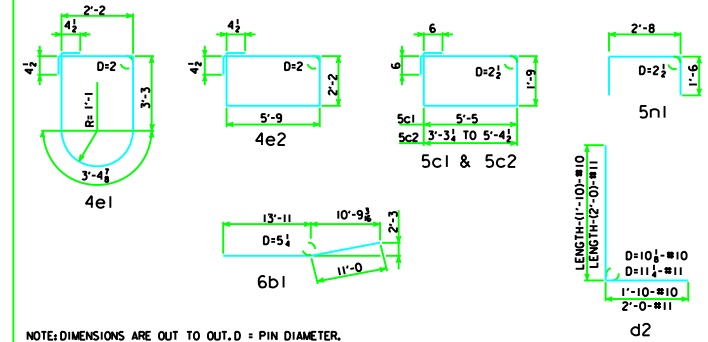
ONE CAP

ONE COLUMN																			
H IN FEET COLUMN HEIGHT		STRUCTURAL CONCRETE C.Y.	REINFORCING STEEL												TOTAL WEIGHT LB.				
			d1 BAR				d2 BAR				4e1 BAR					4e2 BAR			
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT		NO.	SIZE	LENGTH	WEIGHT
16	6'-3"	14.0	-	-	-	-	58	10	14'-6"	3619	14	4	12'-10"	120	35	4	16'-7"	388	4127
19	9'-3"	20.7	-	-	-	-	58	10	17'-6"	4368	20	4	12'-10"	171	50	4	16'-7"	554	5093
22	12'-3"	27.4	58	10	15'-9"	3931	58	10	10'-7"	2641	26	4	12'-10"	223	65	4	16'-7"	720	7515
25	15'-3"	34.1	58	10	18'-9"	4680	58	10	10'-7"	2641	32	4	12'-10"	274	80	4	16'-7"	886	8481
28	18'-3"	40.8	58	11	22'-6"	6933	58	11	12'-2"	3749	38	4	12'-10"	326	95	4	16'-7"	1052	12,060
31	21'-3"	47.5	58	11	25'-6"	7858	58	11	12'-2"	3749	44	4	12'-10"	377	110	4	16'-7"	1219	13,204
34	24'-3"	54.2	58	11	28'-6"	8782	58	11	12'-2"	3749	50	4	12'-10"	429	125	4	16'-7"	1385	14,345
37	27'-3"	60.9	58	11	31'-6"	9707	58	11	12'-2"	3749	56	4	12'-10"	480	140	4	16'-7"	1551	15,487
40	30'-3"	67.6	58	11	34'-6"	10,631	58	11	12'-2"	3749	62	4	12'-10"	532	155	4	16'-7"	1717	16,629

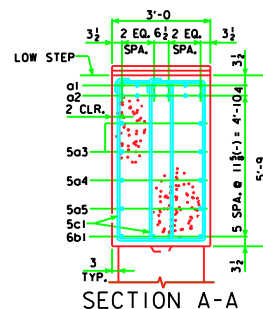
ONE COLUMN

H IN FEET COLUMN HEIGHT		STRUCTURAL CONCRETE C.Y.	REINFORCING STEEL												TOTAL WEIGHT LB.				
			d1 BAR				d2 BAR				4e1 BAR					4e2 BAR			
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT		NO.	SIZE	LENGTH	WEIGHT
16	6'-3"	14.0	-	-	-	58	10	17'-6"	3619	14	12	-10'	120	35	4	16'-7"	388	418	
19	9'-3"	20.7	-	-	-	58	10	17'-6"	4368	20	4	12'-10"	171	50	4	16'-7"	554	5093	
22	12'-3"	27.4	58	10	15'-9"	3931	58	10	10'-7"	2641	26	4	12'-10"	223	65	4	16'-7"	720	7515
25	15'-3"	34.1	58	10	18'-9"	4680	58	10	10'-7"	2641	32	4	12'-10"	274	80	4	16'-7"	886	8841
28	18'-3"	40.8	58	11	22'-6"	6933	58	11	12'-2"	3749	38	4	12'-10"	326	95	4	16'-7"	1052	12,060
31	21'-3"	47.5	58	11	25'-6"	7858	58	11	12'-2"	3749	44	4	12'-10"	377	110	4	16'-7"	1219	13,245
34	24'-3"	54.2	58	11	28'-6"	8782	58	11	12'-2"	3749	50	4	12'-10"	429	125	4	16'-7"	1385	14,304
37	27'-3"	60.9	58	11	31'-6"	9707	58	11	12'-2"	3749	56	4	12'-10"	480	140	4	16'-7"	1551	15,489
40	30'-3"	67.6	58	11	34'-6"	10,631	58	11	12'-2"	3749	62	4	12'-10"	532	155	4	16'-7"	1717	16,627

BENT BAR DETAILS



END ELEVATION



NOTE:
CAP STRUCTURAL CONCRETE QUANTITIES BASED ON 1 1/2 INCH STEP HEIGHT.

03-07	DATE		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
	REVISION		ROLLED STEEL BEAM BRIDGES
	APPROVED BY BRIDGE ENGINEER		FEBRUARY, 2004
	T PIER 30° SKEW CAP & COLUMN DETAILS		RS40-17-04