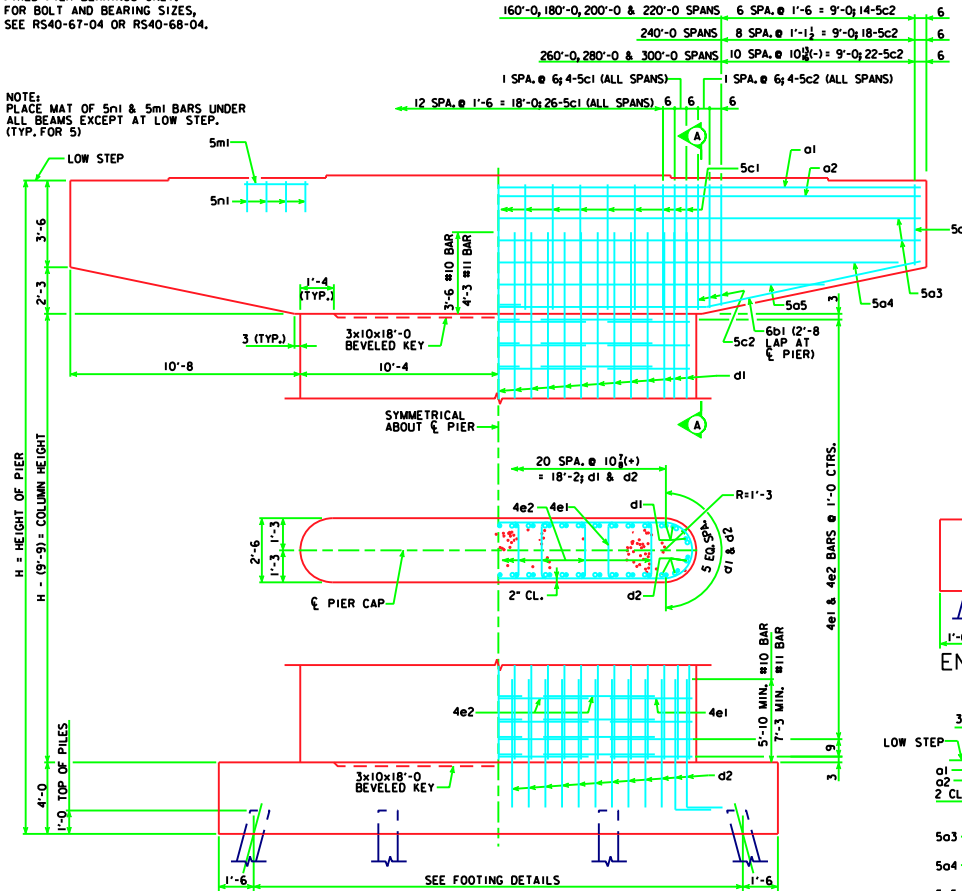


PIER CAP PLAN

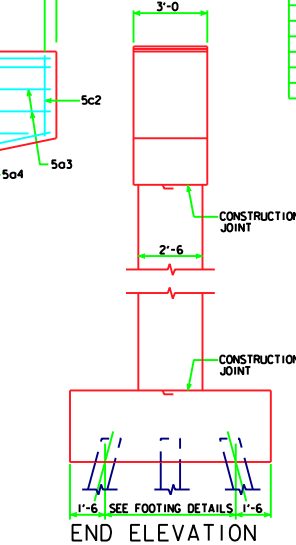
NOTE:
ANCHOR BOLTS REQUIRED FOR
FIXED PIER BEARINGS ONLY.
FOR BOLT AND BEARING SIZES,
SEE RS40-67-04 OR RS40-68-04.

NOTE:
PLACE MAT OF 5m1 & 5m2 BARS UNDER
ALL BEAMS EXCEPT AT LOW STEP.
(TYP. FOR 5)

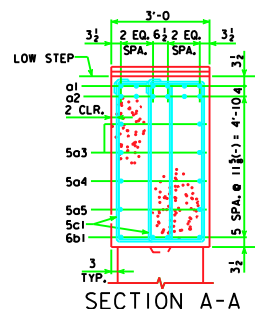


PIER ELEVATION

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 ξ PIER.



END ELEVATION



SECTION A-A

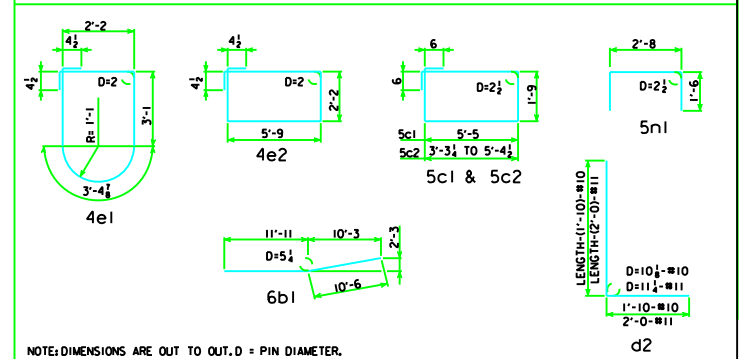
ONE CAP

REINFORCING STEEL	ABUT. BEARINGS			160'-0"		180'-0"		200'-0"		220'-0"		240'-0"		260'-0"		280'-0"		300'-0"						
	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT			
	a1	41'-8"		6	8	668	6	9	850	6	9	850	6	10	1076	6	10	1076	6	11	1328			
	a2	41'-8"		6	8	668	6	8	668	6	9	850	6	9	850	6	9	850	6	10	1076	6	10	1076
	a3	41'-8"		4	5	174	4	5	174	4	5	174	4	5	174	4	5	174	4	5	174	4	5	174
	a4	40'-0"		2	5	83	2	5	83	2	5	83	2	5	83	2	5	83	2	5	83	2	5	83
	a5	31'-0"		2	5	65	2	5	65	2	5	65	2	5	65	2	5	65	2	5	65	2	5	65
	b1	22'-5"	8	6	269	8	6	269	8	6	269	8	6	269	8	6	269	8	6	269	8	6	269	
	c1	15'-4"	34	5	544	34	5	544	34	5	544	34	5	544	34	5	544	34	5	544	34	5	544	
	c2	VARIES	36	5	506	36	5	506	36	5	506	36	5	506	36	5	506	36	5	506	36	5	506	
n1	5'-8"	20	5	118	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	20	5	59		
TOTAL LB.				3154		3336		3336		3518		3853		3961		4187		4439						
STRUCTURAL CONCRETE (C.Y.)				25.1		25.1		25.1		25.1		25.1		25.1		25.1		25.1						

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"	11.7	-	-	-	-	50	10	14'-6"	3120	14	4	12'-6"	117	28	4	16'-7"	310	3547
19	9'-3"	17.2	-	-	-	-	50	10	17'-6"	3765	20	4	12'-6"	167	40	4	16'-7"	443	4375
22	12'-3"	22.8	50	10	15'-9"	3389	50	10	10'-7"	2277	26	4	12'-6"	217	52	4	16'-7"	576	6459
25	15'-3"	28.4	50	10	18'-9"	4044	50	10	10'-7"	2277	32	4	12'-6"	267	64	4	16'-7"	709	7287
28	18'-3"	34.0	50	11	22'-6"	5977	50	11	12'-2"	3232	38	4	12'-6"	317	76	4	16'-7"	842	10,368
31	21'-3"	39.6	50	11	25'-6"	6774	50	11	12'-2"	3232	44	4	12'-6"	367	88	4	16'-7"	975	11,348
34	24'-3"	45.2	50	11	28'-6"	7571	50	11	12'-2"	3232	50	4	12'-6"	418	100	4	16'-7"	1108	12,329
37	27'-3"	50.8	50	11	31'-6"	8368	50	11	12'-2"	3232	56	4	12'-6"	468	112	4	16'-7"	1241	13,309
40	30'-3"	56.4	50	11	34'-6"	9165	50	11	12'-2"	3232	62	4	12'-6"	518	124	4	16'-7"	1374	14,289

BENT BAR DETAILS



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

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

03-07
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 40° ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

FEBRUARY, 2004

RS40-09-04

T PIER 10° SKEW
CAP & COLUMN DETAILS

RS40-09-04