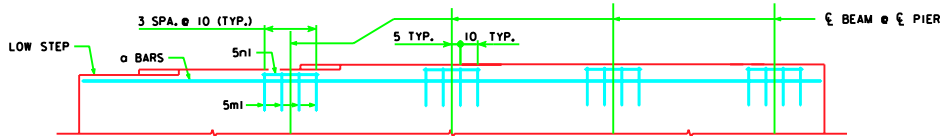
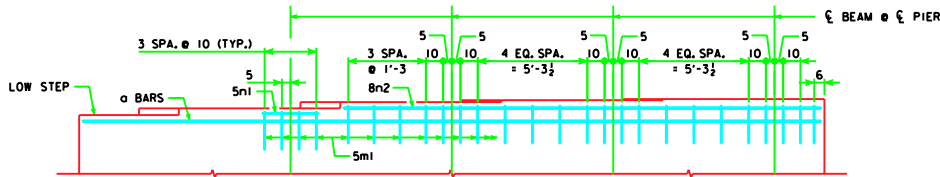


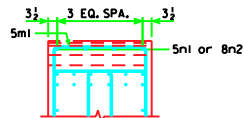
PART ELEVATION VIEW OF PIER CAP  
GRADE (G):  $G \leq 0.9\%$



PART ELEVATION VIEW OF PIER CAP  
GRADE (G):  $0.9\% < G \leq 3.3\%$



PART ELEVATION VIEW OF PIER CAP  
GRADE (G):  $3.3\% < G \leq 5.0\%$



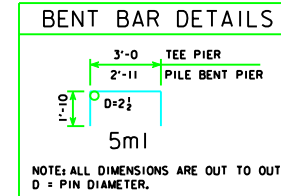
TYPICAL SECTION

STEP REINFORCING BAR LIST ONE TEE PIER											
		G <= 0.9%			0.9% < G <= 3.3%			3.3% < G <= 5.0%			
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5n1	6'-8"		12	5	83	16	5	111	26	5	181
5n1	2'-8"		12	5	33	16	5	45	4	5	11
#8n2	VARIABLES		--	--	--	--	--	--	4	8	256
TOTAL (L.B.)					116			156			448

G = GRADE (%)  
\*8n2 BARS VARY FROM 23'-2 TO 24'-9

STEP REINFORCING BAR LIST ONE PILE BENT PIER											
		G <= 0.9%			0.9% < G <= 3.3%			3.3% < G <= 5.0%			
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5n1	6'-7"		12	5	82	16	5	110	26	5	179
5n1	2'-8"		12	5	33	16	5	45	4	5	11
#8n2	VARIABLES		--	--	--	--	--	--	4	8	256
TOTAL (L.B.)					115			155			446

G = GRADE (%)  
\*8n2 BARS VARY FROM 23'-2 TO 24'-9



NOTES:

THE TABLE BELOW LISTS THE ADDITIONAL CONCRETE VOLUME REQUIRED IN EACH ABUTMENT FOOTING/PIER CAP BASED ON THE ROADWAY GRADE AT EACH ABUTMENT FOOTING/PIER CAP. ADDITIONAL CONCRETE SHOULD BE ADDED TO THE PLANS FOR EACH ABUTMENT FOOTING/PIER CAP THAT HAS 0.5 CU. YDS. OR MORE OF ADDITIONAL CONCRETE. VALUES IN THE TABLE BELOW HAVE BEEN EXCLUDED FOR SCENARIOS THAT HAVE LESS THAN 0.5 CU. YDS. OF ADDITIONAL CONCRETE PER SUBSTRUCTURE UNIT. VALUES MAY BE INTERPOLATED FOR GRADES BETWEEN THE VALUES SHOWN IN THE TABLE.

	ROADWAY GRADE AT SUBSTRUCTURE UNIT				
	1%	2%	3%	4%	5%
EACH ABUTMENT FOOTING					
A, B BEAMS	-----	0.6	0.9	1.3	1.6
C BEAMS	-----	0.7	1.1	1.6	2.0
EACH TEE PIER CAP - ALL BEAMS					
	-----	0.6	0.9	1.3	1.7
EACH PILE BENT PIER - ALL BEAMS					
	-----	0.6	0.9	1.3	1.7

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 30° ROADWAY, THREE SPAN BRIDGES <b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> HL93 SUPERSTRUCTURE    DECEMBER, 2006    HS25 SUBSTRUCTURE	<b>ADDITIONAL QUANTITIES</b> 30° SKEW	<b>H30-24-06</b>		