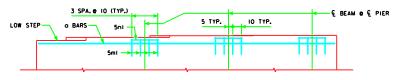
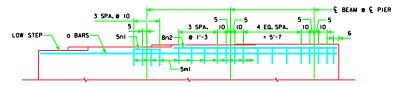


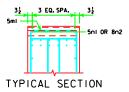
PART ELEVATION VIEW OF PIER CAP



PART ELEVATION VIEW OF PIER CAP



PART ELEVATION VIEW OF PIER CAP

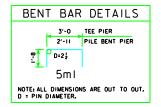


STEP REINFORCING BAR LIST ONE TEE PIER											
			G <= 1.2%			1.2% < G <= 4.1%			4.1% < G <= 5.0%		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5mi	6'-4		8	5	53	12	5	79	19	5	126
5ni	2'-8	_	8	5	22	12	5	33	4	5	- 1
≭8∩2	VARIES	_							4	8	178
	TOTAL (LB.)				75			112			315

G = GRADE (%) *8n2 BARS VARY FROM 15'-11 TO 17'-6

STEP REINFORCING BAR LIST ONE PILE BENT PIER											
			G <= 1.2%			1.2% < G <= 4.1%			4.1% < G <= 5.0%		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5mi	6'-3		8	5	52	12	5	78	19	5	124
5ni	2'-8	_	8	5	22	12	5	33	4	5	- 11
 \$8∩2	VARIES	_							4	8	178
TOTAL (LB.)				74			111			313	

G = GRADE (%) *8n2 BARS VARY FROM 15'-11 TO 17'-5



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. YOS. OR MORE OF ADDITIONAL CONCRETE. VALUES IN THE TABLE BELOW HAVE BEEN EXCLUDED FOR SCENARIOS THAT HAVE LESS THAN 0.5 CU. YOS. OR ADDITIONAL CONCRETE PER SUBSTRUCTURE UNIT, VALUES MAY BE INTERPOLATED FOR GRADES BETWEEN THE VALUES SHOWN IN THE TABLE.

ADDITIONAL CONCRETE VOLUME PER SUBSTRUCTURE UNIT (C.Y.)									
ROADWAY GRADE AT SUBSTRUCTURE UNIT									
	1%	2%	3%	4%	5%				
EACH ABUTMENT FOOTING									
A, B BEAMS			0.6	0.8	1.0				
C BEAMS			0.8	1.0	1.3				
EACH TEE PIER CAP - ALL BEAMS			0.6	0.9	اءا				
EACH PILE BENT PIER - ALL BEAMS			0.6	0.8	1,1				





STANDARD DESIGN - 24" ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

ADDITIONAL QUANTITIES
30° SKEW

H24-24-06