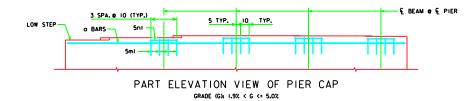
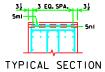


PART ELEVATION VIEW OF PIER CAP



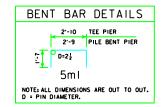




G = GRADE (%)

STEP REINFORCING BAR LIST ONE PILE BENT PIER												
			G <= 1.9%			1.9% < G <= 5.0%						
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT				
5mi	5'-11		12	5	74	16	5	99				
5ni	2'-8	_	12	5	33	16	5	45				
	TO	TAL (LB.)			107			144				

G = GRADE (%)



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 O.S. CU, VOS., OR MORE OF ADDITIONAL CONCRETE, VALUES IN THE TABLE BELOW HAVE BEEN EXCLUDED FOR SCENARIOS THAT HAVE LESS THAN O.S. CU, VOS., OF 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				0.5	0.7					
C BEAMS				0.6	0.8					
EACH TEE PIER CAP - ALL BEAMS				0.5	0.7					
EACH PILE BENT PIER - ALL BEAMS				0.5	0.6					

