



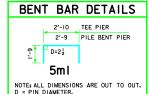
G = GRADE (%)

	STEP REINFORCING BAR LIST ONE PILE BENT PIER													
			G <= 1.4%			1.4% < G <= 3.4%			3.4% < G <= 4.4%			4.4% < G <= 5.0%		
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5ml	6′-3		16	5	104	20	5	130	26	5	169	29	5	189
5nI	2'-8	_	16	5	45	20	5	56	16	5	45	12	5	33
8n2	12'-4								4	8	132			
8n3	20'-0	_										4	8	214
	TOTAL (LB.)			149		- 1		186			346			436

G = GRADE (%)

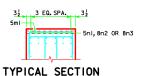
NOTE: THE REINFORCING STEEL QUANTITIES ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE CONCRETE QUANTITIES ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



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 SHOULD BE 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.



PER SUBSTRUCTURE UNIT (C.Y.)										
ROADWAY GRADE AT SUBSTRUCTURE										
	1%	2%	3%	4%	5%					
EACH ABUTMENT FOOTING										
A, B BEAMS			0.7	0.9	1.1					
C BEAMS		0.5	0.8	1.1	1.4					
EACH TEE PIER CAP - ALL BEAMS			0.7	0.9	1.2					
EACH PILE BENT PIER - ALL BEAMS			0.7	0.9	1.2					

ADDITIONAL CONCRETE VOLUME

