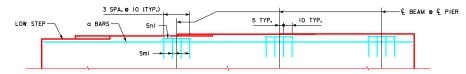


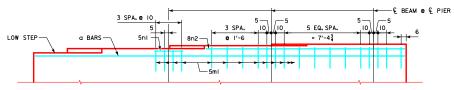
PART ELEVATION VIEW OF PIER CAP

GRADE (G): G <= 0.6%



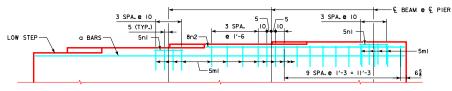
PART ELEVATION VIEW OF PIER CAP

GRADE (G): 0.6% < G <= 2.3%



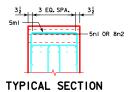
PART ELEVATION VIEW OF PIER CAP

GRADE (G): 2.3% < G <= 4.0%



PART ELEVATION VIEW OF PIER CAP

GRADE (G): 4.0% < G <= 5.0%



STEP REINFORCING BAR LIST ONE TEE PIER														
			G <= 0.6%		0.6% < G <= 2.3%		2.3% < G <= 4.0%			4.0% < G <= 5.0%				
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5m1	7′-0		8	5	58	12	5	88	20	5	146	24	5	175
5nl	2'-8		8	5	22	12	5	33	4	5	- 11	8	5	22
*8n2	VARIES								4	8	221	4	8	221
TOTAL (LB.)				80			121			378			418	

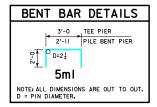
G = GRADE (%)

*8n2 BARS VARY FROM 19'-4 TO 22'-1

STEP REINFORCING BAR LIST ONE PILE BENT PIER														
			G <= 0.6%		0.6% < G <= 2.3%		2.3% < G <= 4.0%			4.0% < G <= 5.0%				
BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
5m1	6'-11		8	5	58	12	5	87	20	5	144	24	5	173
5nl	2'-8	_	8	5	22	12	5	33	4	5	- 11	8	5	22
* 8n2	VARIES							-	4	8	221	4	8	221
	TOTAL (LB.)				80			120			376			416

G = GRADE (%)

*8n2 BARS VARY FROM 19'-4 TO 22'-0



NOTES:

THE TABLE BELOW LISTS THE ADDITIONAL CONCRETE VOLUME REQUIRED IN EACH ABUTHENT FOOTING/PIER CAP BASED ON THE ROADMAY GRADE AT EACH ABUTHENT FOOTING/PIER CAP. ADDITIONAL CONCRETE SHOULD BE ADDED TO THE PLANS FOR EACH ABUTHENT FOOTING/PIER CAP THAT HAS 0.5 CLU, YDS. OR MORE OF ADDITIONAL CONCRETE. VALUES IN THE TABLE BELOW HAVE BEEN EXCLUDED FOR SCENARIOS THAT THAY LESS THAN 0.5 CLU, YDS. 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 UNI										
	1%	2%	3%	4%	5%					
EACH ABUTMENT FOOTING										
A, B BEAMS		0.8	1.2	1.7	2,1					
C BEAMS		1.0	1.5	2,1	2.6					
EACH TEE PIER CAP - ALL BEAMS		0.8	1.4	1.9	2,5					
EACH PILE BENT PIER - ALL BEAMS		0.8	1,4	1,9	2.4					





STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

ADDITIONAL QUANTITIES

H24-31-06