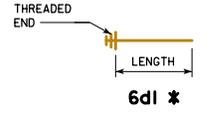


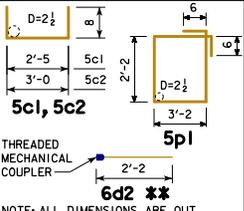
EPOXY COATED REINFORCING BAR LIST CAST-IN-PLACE ABUTMENT BACKWALL (TWO ABUTMENTS)																							BENT BAR DETAILS				
BAR	LOCATION	SPAN	REINFORCED CONCRETE BOX BEAMS									PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS															
			30'-0"			40'-0"			50'-0"			30'-0"			40'-0"			50'-0"			60'-0"		70'-0"				
		SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT				
6d1 *	BACKWALL, VERTICAL	—	204	2'-2	664	204	2'-2	664	216	2'-8	865	204	1'-8	511	204	1'-8	511	216	2'-2	703	220	2'-2	716	220	2'-8	881	
5g1	BACKWALL, HORIZONTAL	—	12	39'-8	496	12	39'-8	496	12	39'-8	496	12	39'-8	496	12	39'-8	496	12	39'-8	496	12	39'-8	496	12	39'-8	496	
	1/4" DIA. SMOOTH DOWELS	—	16	2'-9	184	16	2'-9	184	16	3'-3	217	16	2'-3	150	16	2'-3	150	16	2'-9	184	16	2'-9	184	16	3'-3	217	
TOTAL (LBS.)			1,344			1,344			1,578			1,157			1,157			1,383		1,396		1,594					



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D= PIN DIAMETER.

* SEE BENT BAR DETAILS. THE LENGTHS SHOWN DO NOT INCLUDE AN ALLOWANCE FOR THE THREADED END. BAR LENGTHS MAY NEED TO INCREASE DEPENDING ON THE MECHANICAL COUPLER ASSEMBLY USED. THE COST OF THE THREADED PORTION OF THESE BARS IS TO BE INCLUDED IN THE PRICE BID FOR "REINFORCING STEEL EPOXY COATED" AND NO ADDITIONAL PAYMENT WILL BE MADE. THE WEIGHT OF THE THREADED END IS NOT INCLUDED IN THE QUANTITY SHOWN FOR "REINFORCING STEEL EPOXY COATED".

EPOXY COATED REINFORCING BAR LIST PRECAST ABUTMENT FOOTING (ONE FOOTING) (INCLUDED IN BID ITEM "PRECAST FOOTING (SHEET PILE WINGS)", EACH)																							BENT BAR DETAILS				
BAR	LOCATION	SPAN	REINFORCED CONCRETE BOX BEAMS									PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS															
			30'-0"			40'-0"			50'-0"			30'-0"			40'-0"			50'-0"			60'-0"		70'-0"				
		SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
5c1	FOOTING END, VERTICAL	—	8	3'-9	31	8	3'-9	31	8	3'-9	31	8	3'-9	31	8	3'-9	31	8	3'-9	31	8	3'-9	31	8	3'-9	31	
5c2	FOOTING END, HORIZONTAL	—	8	4'-4	36	8	4'-4	36	8	4'-4	36	8	4'-4	36	8	4'-4	36	8	4'-4	36	8	4'-4	36	8	4'-4	36	
6d2 **	FOOTING, VERTICAL	—	102	2'-2	332	102	2'-2	332	108	2'-2	351	102	2'-2	332	102	2'-2	332	108	2'-2	351	110	2'-2	358	110	2'-2	358	
8f1	FOOTING, LONGITUDINAL	—	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	12	39'-8	1271	
6f2	FOOTING, LONGITUDINAL, TOP	—	10	5'-0	75	10	5'-0	75	12	3'-10	69	10	5'-0	75	10	5'-0	75	12	3'-10	69	14	3'-0	63	14	3'-0	63	
5p1	FOOTING HOOPS	□	72	11'-8	876	72	11'-8	876	72	11'-8	876	72	11'-8	876	72	11'-8	876	68	11'-8	827	68	11'-8	827	68	11'-8	827	
TOTAL (LBS.)			2,621			2,621			2,634			2,621			2,621			2,634		2,586		2,586					



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D= PIN DIAMETER.

** INCLUDES MECHANICAL COUPLERS. SEE BENT BAR DETAILS.

CAST-IN-PLACE CONCRETE PLACEMENT QUANTITIES (TWO ABUTMENTS)									
LOCATION	SPAN	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS				
		30'-0"	40'-0"	50'-0"	30'-0"	40'-0"	50'-0"	60'-0"	70'-0"
BACKWALLS (C.Y.)		7.7	7.7	9.3	6.1	6.1	7.7	7.7	9.3

PRECAST CONCRETE PLACEMENT QUANTITIES (ONE FOOTING) (INCLUDED IN BID ITEM "PRECAST FOOTING (SHEET PILE WINGS)", EACH)									
LOCATION	SPAN	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS				
		30'-0"	40'-0"	50'-0"	30'-0"	40'-0"	50'-0"	60'-0"	70'-0"
FOOTING (C.Y.)		14.9	14.9	14.6	14.9	14.9	14.6	14.3	14.3
CMP PILE POCKETS (C.Y.) **		1.7	1.7	2.0	1.7	1.7	2.0	2.3	2.3
TOTAL (C.Y.)		16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6

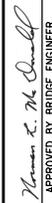
** HIGH EARLY STRENGTH SELF-CONSOLIDATING CONCRETE.

ABUTMENT NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
 ABUTMENT PILES SHALL BE DRIVEN TO VALUES SHOWN IN THE DESIGN PLANS.
 CONSTRUCTION KEYWAYS ARE TO BE FORMED WITH BEVELED 2x6's.
 THE BACKWALL SHALL BE PLACED AFTER THE UHPC JOINTS BETWEEN THE BEAMS HAVE BEEN COMPLETED.
 MECHANICAL COUPLERS SHALL BE EPOXY COATED.
 THE MECHANICAL COUPLERS SHALL MEET THE REQUIREMENTS OF MATERIALS IM 451 APPENDIX E, EXCEPT THE MECHANICAL SPLICE IS REQUIRED TO BE EMBEDDED ON THE ABUTMENT FOOTING SIDE OF THE CONSTRUCTION JOINT.

CMP PILE POCKET NOTE:

PILE POCKETS SHALL CONSIST OF GALVANIZED STEEL CORRUGATED METAL PIPE (CMP), TYPE 1, 16 GAGE, IN ACCORDANCE WITH THE PRECAST CONCRETE ELEMENTS NOTES. CMP FOR INDIVIDUAL POCKETS SHALL CONSIST OF A SINGLE LENGTH OF PIPE; SPLICING OF PIPE SECTIONS SHALL NOT BE ALLOWED. NOMINAL CMP SIZE SHALL BE 21". FOLLOWING SETTING OF THE FOOTING, THE PILE POCKETS SHALL BE FILLED LEVEL WITH THE TOP OF FOOTING USING HIGH EARLY STRENGTH SELF-CONSOLIDATING CONCRETE IN ACCORDANCE WITH THE PRECAST CONCRETE ELEMENTS NOTES.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 30'-0 ROADWAY, SINGLE SPAN CONCRETE BOX BEAM BRIDGES
		DECEMBER, 2016 ABUTMENT DETAILS (PRECAST) SHEET PILE WINGS 0° SKEW (SHEET 2 OF 2)
		B30-18-16