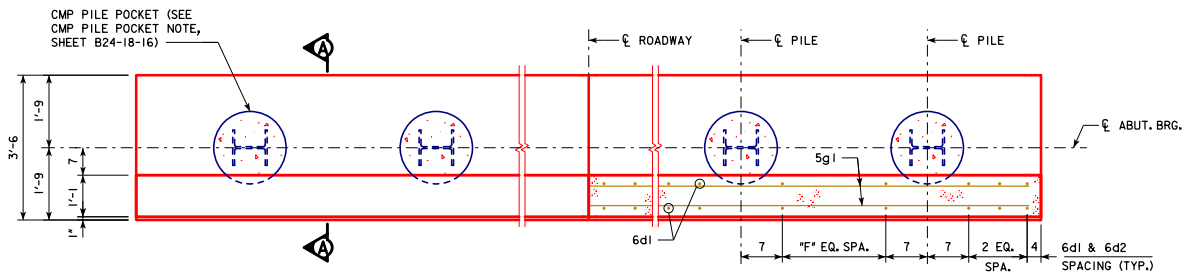
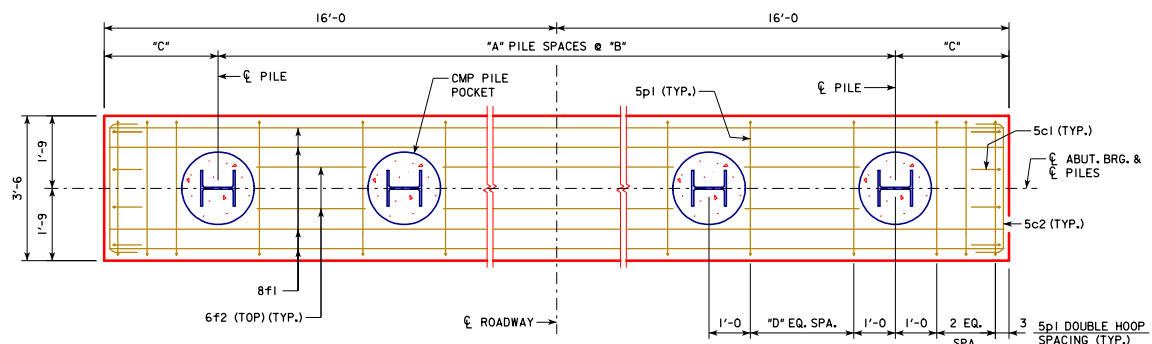


REAR ELEVATION AT ABUTMENT



PART PLAN VIEW

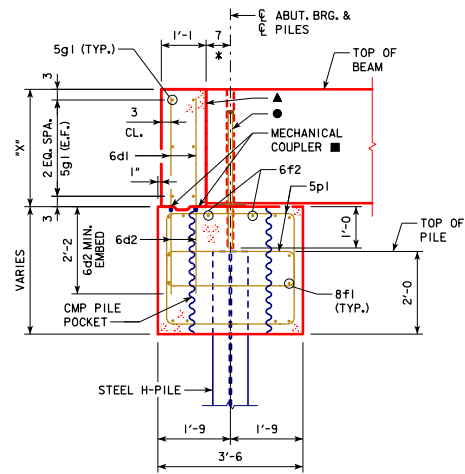
PART SECTION THROUGH BACKWALL



ABUTMENT PILE PLAN

	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS					
	SPAN	30'-0"	40'-0"	50'-0"	30'-0"	40'-0"	50'-0"	60'-0"	70'-0"
*X* (FT. - IN.)	2'-4 1/4	2'-4 1/4	2'-10 1/4	1'-10 1/4	1'-10 1/4	2'-4 1/4	2'-4 1/4	2'-10 1/4	
*A* PILE SPACES	4	4	4	4	4	4	5	6	
*B* (FT. - IN.)	6'-9	6'-9	6'-9	6'-9	6'-9	6'-9	5'-4	4'-6	
*C* (FT. - IN.)	2'-6	2'-6	2'-6	2'-6	2'-6	2'-6	2'-8	2'-6	
*D* EQUAL SPACES	6	6	6	6	6	6	4	3	
*F* EQUAL SPACES	8	8	8	8	8	8	6	5	
NO. OF HPI0X57 PILES PER ABUT.	5	5	5	5	5	5	6	7	
Pu, STRENGTH I DESIGN LOAD (KIPS)	107	124	144	104	120	139	130	126	

NOTE:  
Pu, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



SECTION A-A

NOTES:  
 ● 1 1/2" Ø SMOOTH DOWELS (#36). DRILL A 1 1/2" Ø HOLE 12" DEEP INTO ABUTMENT AFTER BEAMS ARE IN PLACE. USE LOW IMPACT ROTARY DRILL. PRIOR TO SETTING DOWEL, FILL HOLE TO A DEPTH OF 4" WITH A POLYMER GROUT SYSTEM IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PLACE 2" Ø x 1" THICK POLYSTYRENE PLUG ON TOP OF DOWEL. FILL REMAINDER OF HOLE ABOVE PLUG WITH NON-SHRINK GROUT.  
 \* THIS DIMENSION MAY VARY. TILTING OF THE BACKWALL DURING CONSTRUCTION MAY BE NECESSARY TO ACCOMMODATE BEAM CAMBER AND LONGITUDINAL GRADE.  
 ▲ FOR CAST-IN-PLACE ABUTMENT BACKWALLS, CAST BACKWALL CONCRETE DIRECTLY AGAINST ENDS OF CONCRETE BOXES.  
 ■ IN LIEU OF MECHANICAL COUPLERS, 6d1 AND 6d2 MAY BE COMBINED INTO ONE BAR EXTENDING FROM THE FOOTING INTO THE BACKWALL.

LATEST REVISION DATE	
	STANDARD DESIGN - 24'-0" ROADWAY, SINGLE SPAN <b>CONCRETE BOX BEAM BRIDGES</b>
	DECEMBER, 2016
	<b>ABUTMENT DETAILS (PRECAST) SHEET PILE WINGS 0° SKEW (SHEET 1 OF 2)</b>
 APPROVED BY BRIDGE ENGINEER	<b>B24-17-16</b>