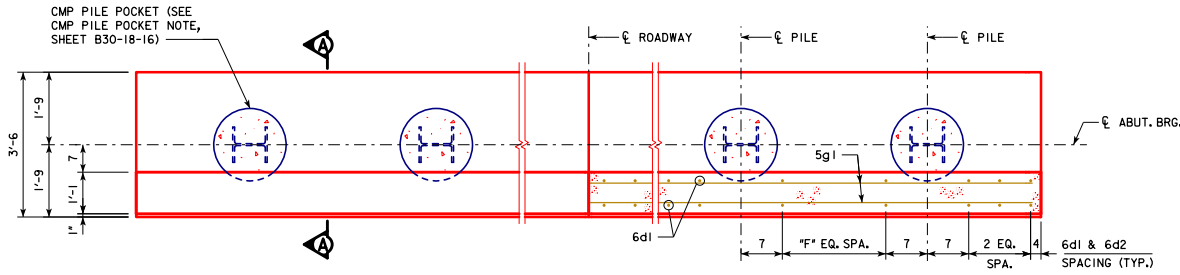
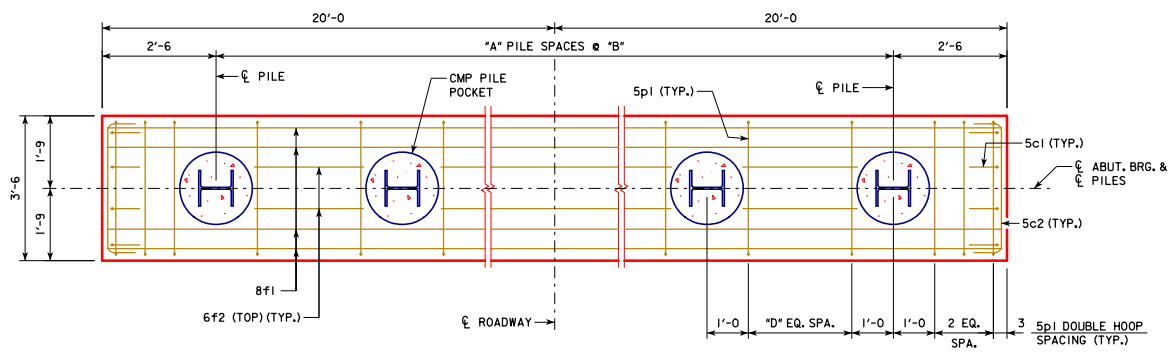


REAR ELEVATION AT ABUTMENT



PART SECTION THROUGH BACKWALL

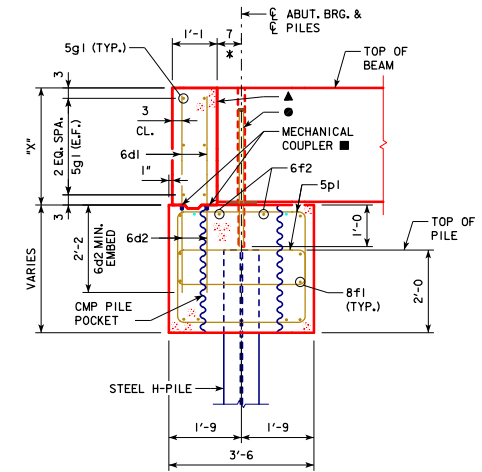
PART PLAN VIEW



ABUTMENT PILE PLAN

	REINFORCED CONCRETE BOX BEAMS					PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS				
	SPAN	30'-0"	40'-0"	50'-0"	70'-0"	30'-0"	40'-0"	50'-0"	60'-0"	70'-0"
X (FT. - IN.)	2'-4 1/4	2'-4 3/4	2'-10	2'-10 1/4	2'-10 1/2	1'-10 1/4	1'-10 1/2	2'-4 1/4	2'-4 3/4	2'-10 1/4
A PILE SPACES	5	5	6	5	5	6	7	7	7	7
B (FT. - IN.)	7'-0	7'-0	5'-10	7'-0	7'-0	7'-0	5'-10	5'-0	5'-0	5'-0
D EQUAL SPACES	5	5	4	5	5	4	3	3	3	3
F EQUAL SPACES	8	8	7	8	8	7	6	6	6	6
NO. OF HPI0x57 PILES PER ABUT.	6	6	7	6	6	7	8	8	8	8
Pu, STRENGTH I DESIGN LOAD (KIPS)	117	136	137	114	132	132	128	144		

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" SMOOTH DOWELS (A36). DRILL A 1 1/2" 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" 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		CONCRETE BOX BEAM BRIDGES DECEMBER, 2016 ABUTMENT DETAILS (PRECAST) SHEET PILE WINGS 0° SKEW (SHEET 1 OF 2)	B30-17-16
	STANDARD DESIGN - 30'-0" ROADWAY, SINGLE SPAN		
	APPROVED BY BRIDGE ENGINEER <i>Thomas E. M. [Signature]</i>		
	APPROVED BY BRIDGE ENGINEER		