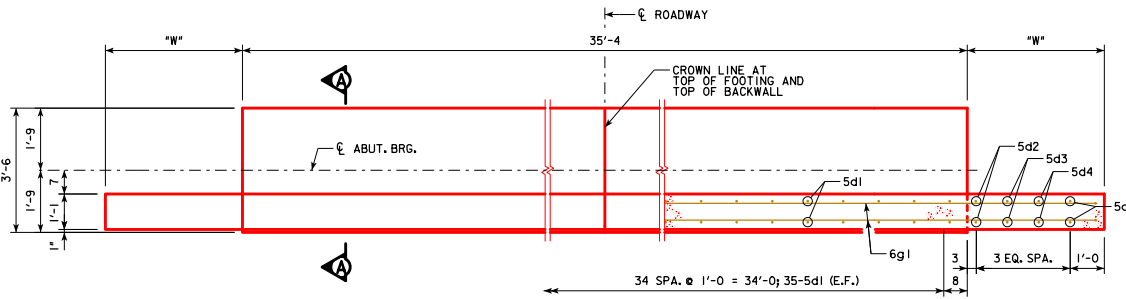
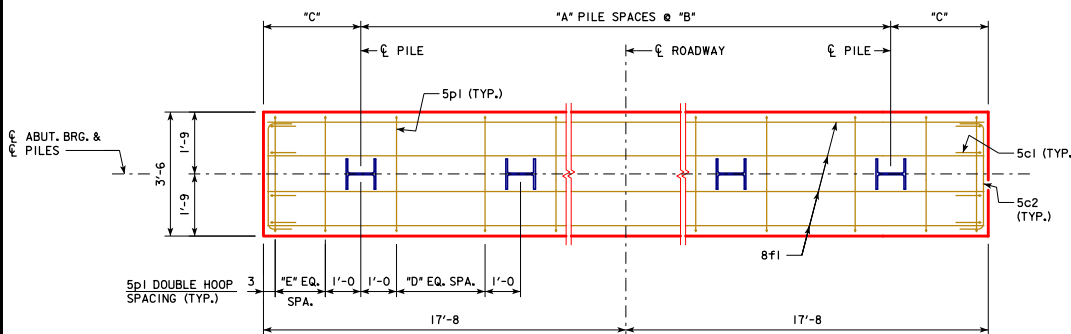


REAR ELEVATION AT ABUTMENT



PART PLAN VIEW

PART SECTION THROUGH BACKWALL



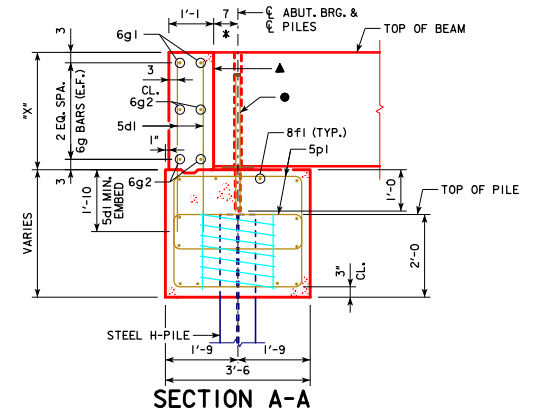
ABUTMENT PILE PLAN

	ABUTMENT DATA (0° SKEW)							
	SPAN	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS			
		30'-0	40'-0	50'-0	30'-0	40'-0	50'-0	60'-0
*W (FT. - IN.)	4'-0	4'-0	4'-0	3'-0	3'-0	4'-0	4'-0	4'-0
*X (FT. - IN.)	2'-4 1/2	2'-4 1/2	2'-10 1/2	1'-10 1/2	1'-10 1/2	2'-4 1/2	2'-4 1/2	2'-10 1/2
*Y (FT. - IN.)	2'-0	2'-0	2'-0	1'-6	1'-6	2'-0	2'-0	2'-0
*Z (FT. - IN.)	2'-4	2'-4	2'-10	2'-4	2'-4	2'-4	2'-4	2'-10
*A PILE SPACES	4	4	5	4	4	5	6	7
*B (FT. - IN.)	7'-7	7'-7	6'-3	7'-7	7'-7	6'-3	5'-4	4'-6
*C (FT. - IN.)	2'-6	2'-6	2'-0 1/2	2'-6	2'-6	2'-0 1/2	1'-8	1'-11
*D EQUAL SPACES	6	6	5	6	6	5	4	3
*E EQUAL SPACES	2	2	1	2	2	1	1	1
NO. OF PILES PER ABUT.	5	5	6	5	5	6	7	8
Pu, STRENGTH I DESIGN LOAD (KIPS)	123	144	142	118	138	136	130	131

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

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.



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.
THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 2 1/2" DIAMETER, 3" PITCH WITH 3-1/2" x 1/2" x 1/2" SPACERS PUNCHED TO HOLD SPIRAL.
▲ FOR CAST-IN-PLACE ABUTMENT BACKWALLS, CAST BACKWALL CONCRETE DIRECTLY AGAINST ENDS OF CONCRETE BOXES.

LATEST REVISION DATE		STANDARD DESIGN - 30'-0 ROADWAY, SINGLE SPAN
		CONCRETE BOX BEAM BRIDGES
		DECEMBER, 2016
 APPROVED BY BRIDGE ENGINEER	ABUTMENT DETAILS (CAST-IN-PLACE) CONCRETE WINGS 0° SKEW	B30-12-16