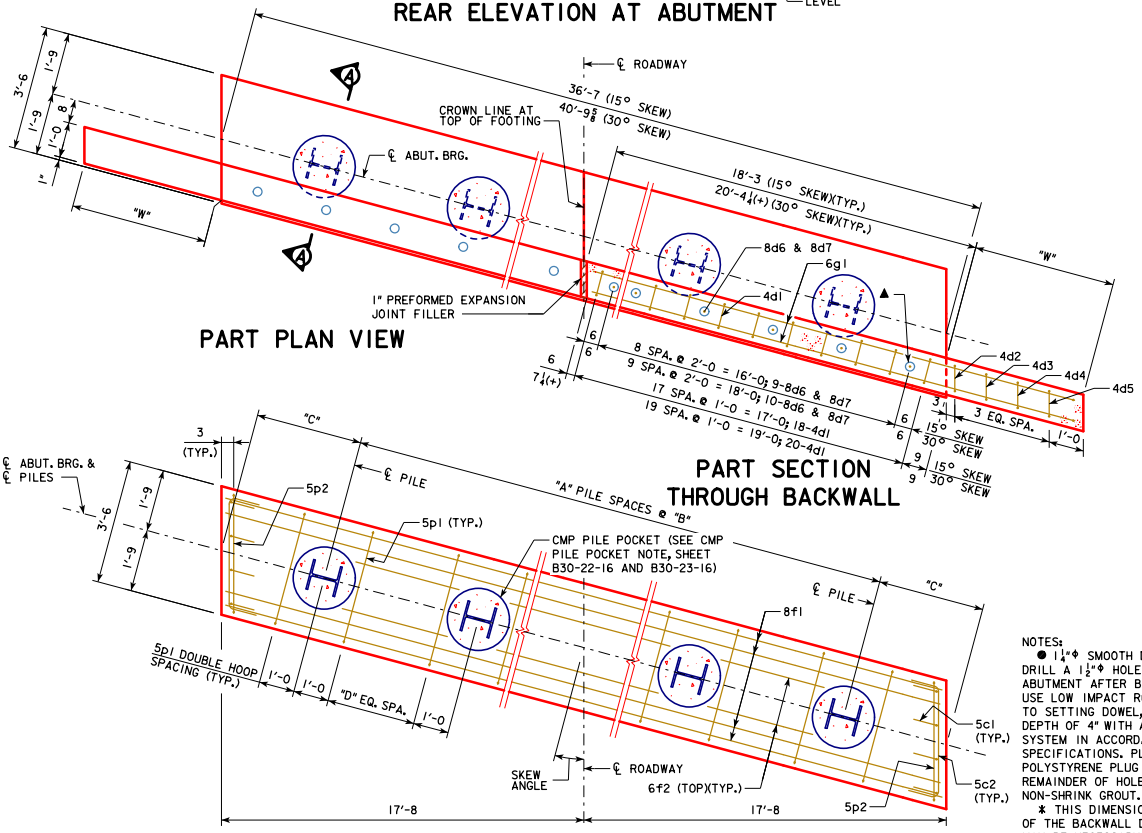


REAR ELEVATION AT ABUTMENT



PART PLAN VIEW

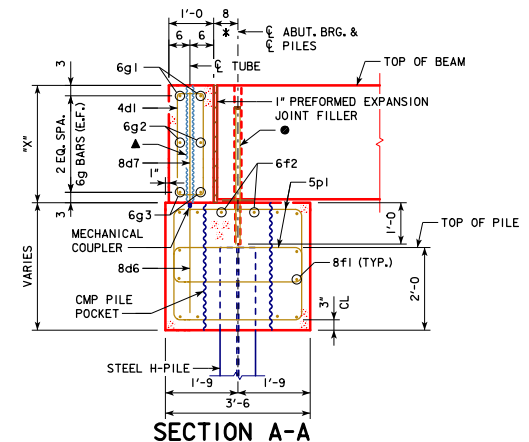
PART SECTION THROUGH BACKWALL

ABUTMENT PILE PLAN

		ABUTMENT DATA (15° SKEW)							
		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"
"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		5	5	5	5	5	5	6	7
"B" (FT. - IN.)		6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	5'-6"	4'-7"
"C" (FT. - IN.)		2'-0 1/2"	2'-0 1/2"	2'-0 1/2"	2'-0 1/2"	2'-0 1/2"	2'-0 1/2"	1'-9 1/2"	2'-3"
"D" EQUAL SPACES		5	5	5	5	5	5	4	3
NO. OF PILES PER ABUT.		6	6	6	6	6	6	7	8
P _u STRENGTH I DESIGN LOAD (KIPS)		104	122	143	100	117	137	131	132

		ABUTMENT DATA (30° SKEW)							
		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"
"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		5	5	6	5	5	5	6	7
"B" (FT. - IN.)		7'-3"	7'-3"	5'-11"	7'-3"	7'-3"	7'-3"	5'-11"	5'-1"
"C" (FT. - IN.)		2'-3 3/8"	2'-3 3/8"	2'-7 1/8"	2'-3 3/8"	2'-3 3/8"	2'-3 3/8"	2'-7 1/8"	2'-7 1/8"
"D" EQUAL SPACES		6	6	4	6	6	6	4	4
NO. OF PILES PER ABUT.		6	6	7	6	6	6	7	8
P _u STRENGTH I DESIGN LOAD (KIPS)		107	124	127	102	119	140	134	134

NOTE:
P_u 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.
 ▲ 3" DIAMETER PLASTIC CORRUGATED TUBE. COVER TOP OF DOWELS WITH 2" OF GROUT.

LATEST REVISION DATE		STANDARD DESIGN - 30'-0" ROADWAY, SINGLE SPAN	B30-21-16
		CONCRETE BOX BEAM BRIDGES	
		DECEMBER, 2016	
APPROVED BY BRIDGE ENGINEER 	ABUTMENT DETAILS (PRECAST) CONCRETE WINGS 15° AND 30° SKEW		