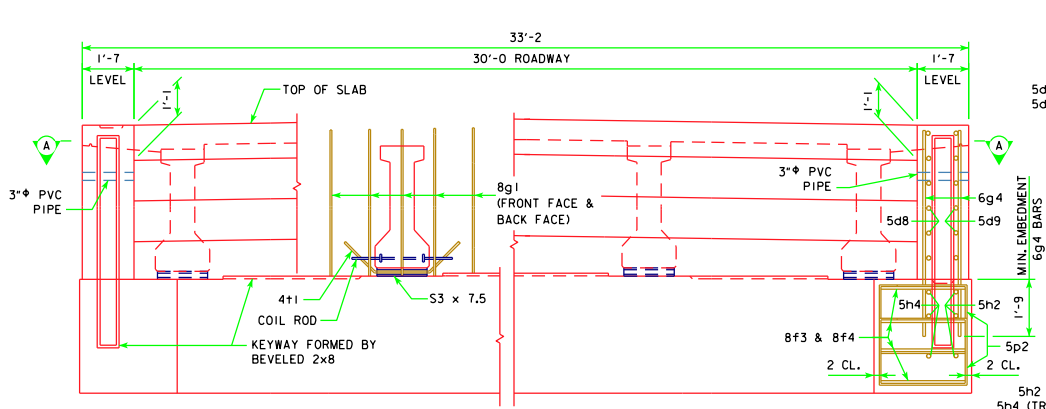
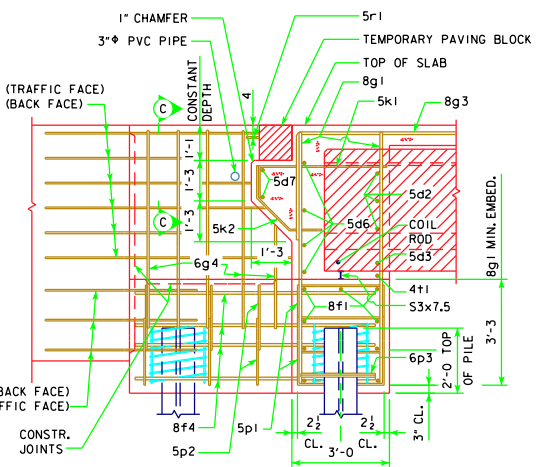


REVISED 07-10 - PILING NO. & DESIGN LOADS CHANGED TO LRFD. ABUT. WING SHAPE CHANGED.



PART REAR ELEVATION AT ABUTMENT
NOTE: TOP OF ABUTMENT SHOWN FOR SOLID BARRIER RAIL



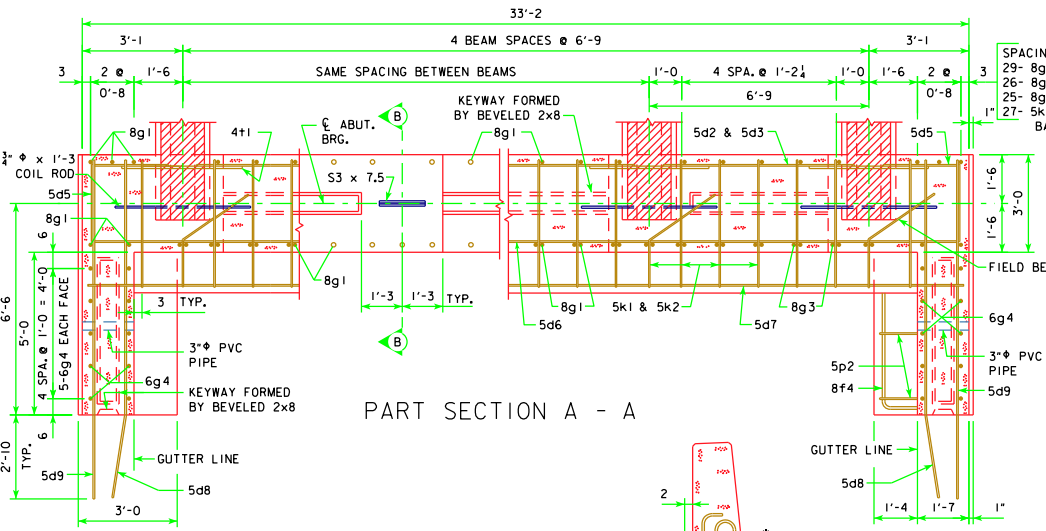
PART SECTION B - B

ABUTMENT NOTES:
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

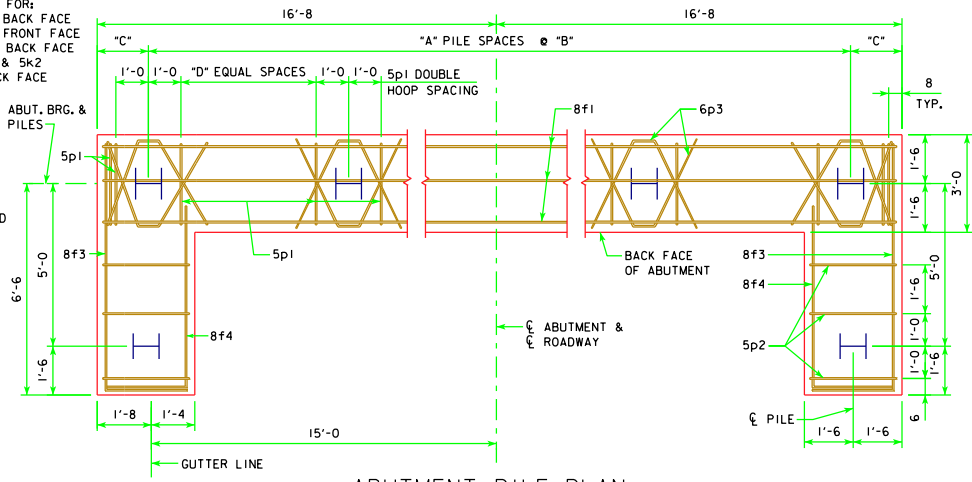
ABUTMENT PILES ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE AS GIVEN IN THE ABUTMENT PILE SPACING TABLE.

BARRIER RAIL NOT SHOWN IN DETAILS.

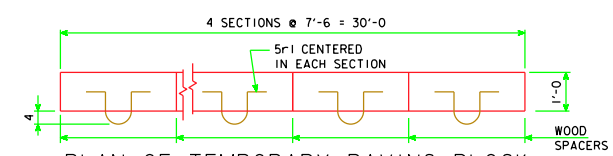
NOTE:
THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 21" DIAMETER, 3" PITCH WITH 3 - 1/8" x 1/8" x 1/8" SPACERS PUNCHED TO HOLD SPIRAL.



PART SECTION A - A

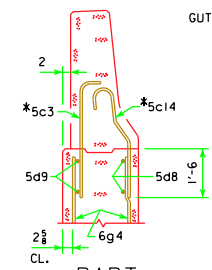


ABUTMENT PILE PLAN



PLAN OF TEMPORARY PAVING BLOCK

NOTE:
LINE PAVING NOTCH WITH TAR PAPER BEFORE PLACING THE TEMPORARY PAVING BLOCK.



PART SECTION C-C

* NOTE: SEE BARRIER RAIL SHEET FOR DETAILS. REINFORCING BARS 5c3 AND 5c14 ARE INCLUDED IN SUPERSTRUCTURE QUANTITIES.

ABUTMENT PILE SPACING		201'-4	213'-10	226'-4	243'-0
WITH STEEL H-PILES	"A" PILE SPACES	5	6	6	6
	"B" (FT. - IN.)	5'-9	4'-9	4'-9	4'-9
	"C" (FT. - IN.)	2'-3 1/2	2'-5	2'-5	2'-5
	"D" EQUAL SPACES	3	3	3	3
	NO. OF PILES PER ABUT.	8	9	9	9
①	PILE BEARING (TONS)	49	44	45	48
	STRENGTH I DESIGN LOAD (KIPS)	143	126	130	138

- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

07-10
LATEST REVISION DATE
APPROVED BY BRIDGE ENGINEER
H. M. Smith

**Iowa Department of Transportation**
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
DECEMBER, 2006

ABUTMENT DETAILS
0° SKEW C BEAMS

H30-06-06