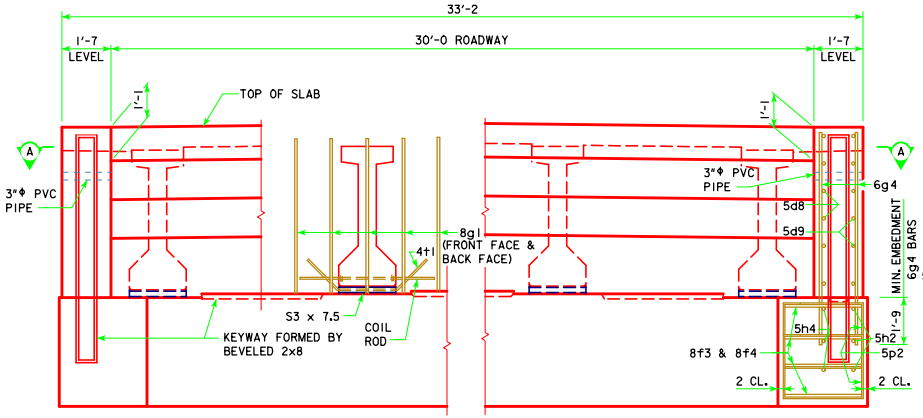
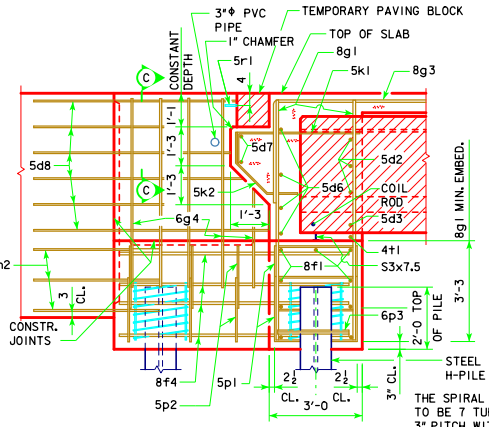


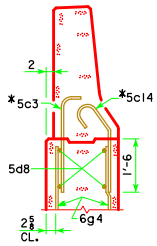
PART REAR ELEVATION AT ABUTMENT

NOTE: BARRIER RAIL AND WINGS NOT SHOWN.
(SHOWN FOR SOLID BARRIER RAIL)



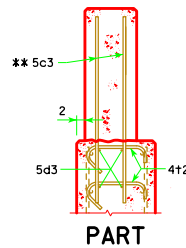
PART SECTION B - B

THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF No. 2 BAR, 21" DIAMETER, 3" PITCH WITH 2 - $L\frac{3}{8} \times \frac{3}{8} \times \frac{1}{8}$ SPACERS PUNCHED TO HOLD SPIRAL.



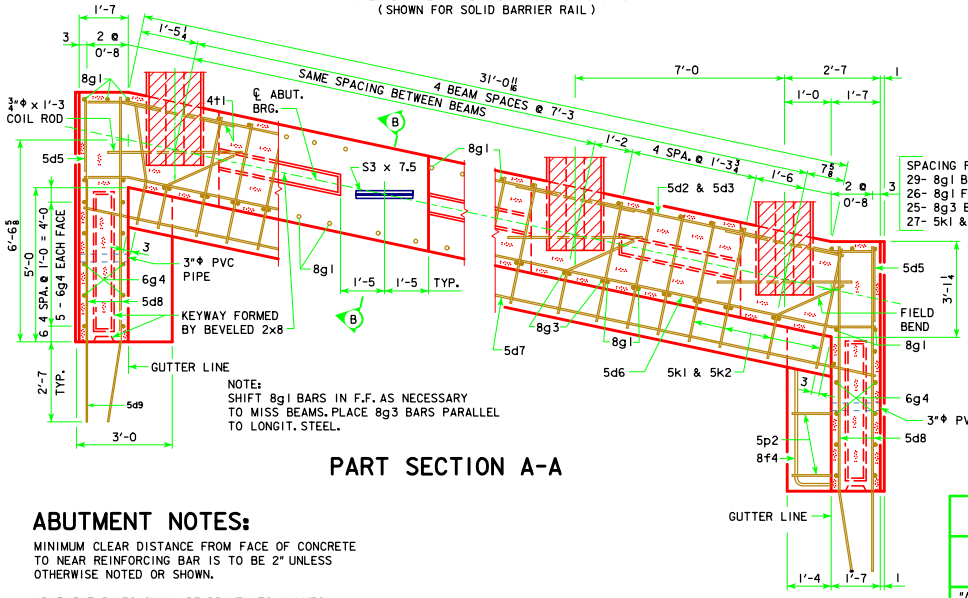
PART SECTION C-C

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

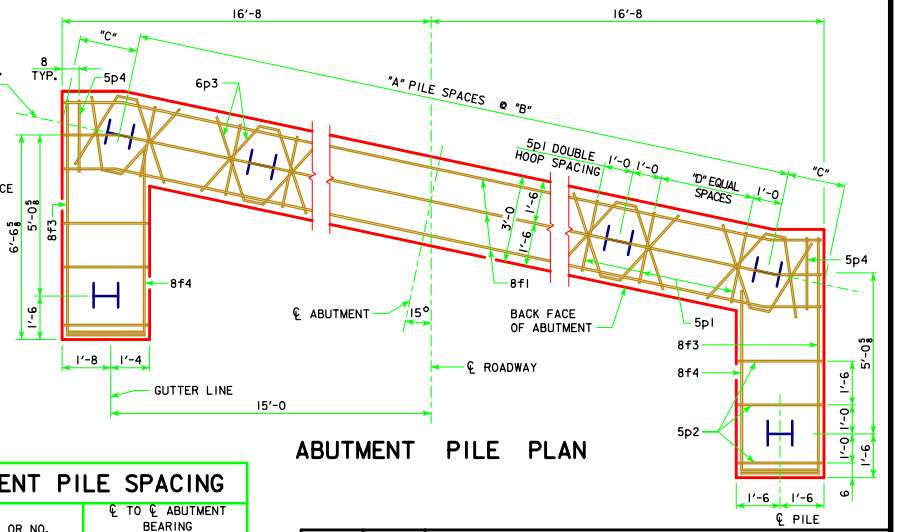


PART SECTION C-C

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



PART SECTION A-A



ABUTMENT PILE PLAN

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 DESIGN PLANS.

BARRIER RAIL NOT SHOWN IN DETAILS.

IF ROCK IS CLOSER THAN 15' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.

ABUTMENT PILE SPACING

DIMENSION OR NO.	℄ TO ℄ ABUTMENT BEARING			
	80'-0	90'-0	100'-0	110'-0
"A" PILE SPACES	6	7	8	8
"B" (FT - IN)	5'-2	4'-5	3'-10	3'-10
"C" (FT - IN)	1'-9 1/16	1'-9 9/16	1'-11 1/16	1'-11 1/16
"D" EQUAL SPACES	4	3	2	2
NO. OF PILES PER ABUT.	9	10	11	11
STRENGTH I DESIGN LOAD (KIPS)	138	134	126	134

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

05-13
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, SINGLE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

APRIL, 2012

ABUTMENT DETAILS

15° SKEW C & D BEAMS

H30SI-10-12

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.