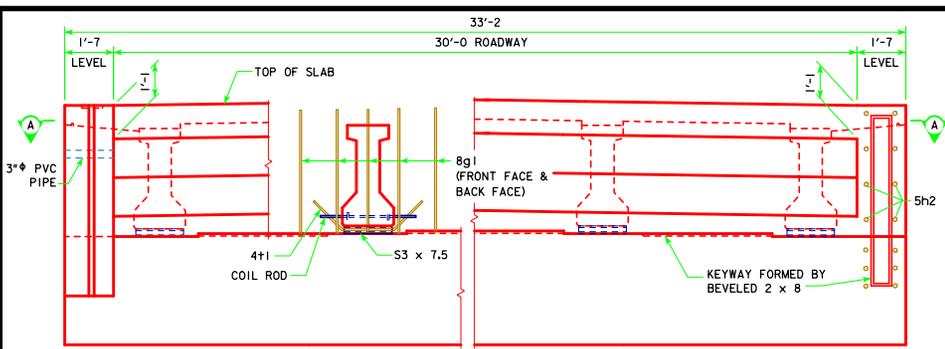
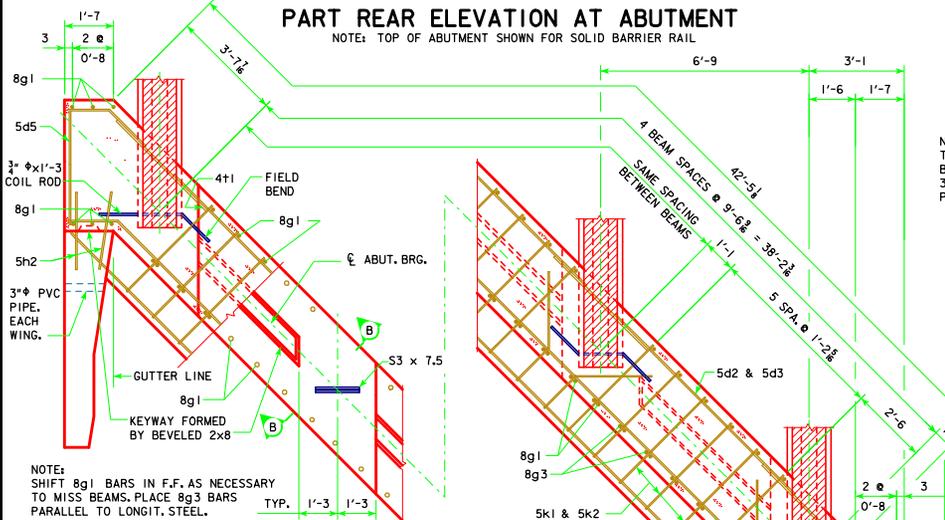


REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.



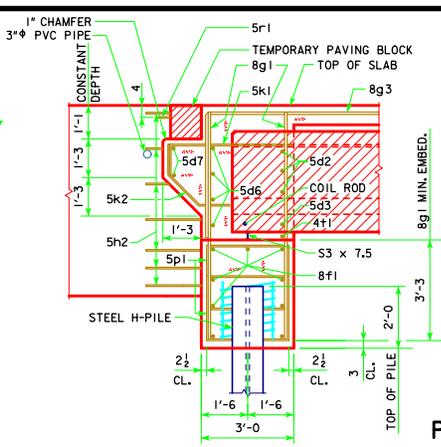
PART REAR ELEVATION AT ABUTMENT
NOTE: TOP OF ABUTMENT SHOWN FOR SOLID BARRIER RAIL



PART SECTION A-A

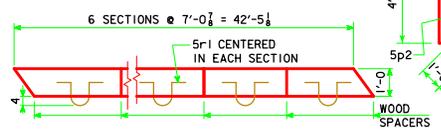
ABUTMENT PILE SPACING		CL-CL ABUT. BRG.	138'-10"	151'-4"	163'-10"	176'-4"	188'-10"
WITH WOOD PILES	*A* PILE SPACES		11	12	13	13	13
	B (FT. - IN.)		3'-10"	3'-6"	3'-3"	3'-3"	3'-3"
	C (FT. - IN.)		2'-4 1/8"	2'-5 1/8"	2'-3 3/8"	2'-3 3/8"	2'-3 3/8"
	D EQUAL SPACES		2	2	1	1	1
	NO. OF PILES PER ABUT.		12	13	14	14	14
P _u STRENGTH DESIGN LOAD (KIPS)			57	54	54	56	58
WITH STEEL H-PILES	*A* PILE SPACES		5	5	5	5	5
	B (FT. - IN.)		8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
	C (FT. - IN.)		3'-5 1/8"	3'-5 1/8"	3'-5 1/8"	3'-5 1/8"	3'-5 1/8"
	D EQUAL SPACES		5	5	5	5	5
	NO. OF PILES PER ABUT.		6	6	6	6	6
P _u STRENGTH DESIGN LOAD (KIPS)			123	128	137	141	146

NOTE: P_u STRENGTH | DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



PART SECTION B-B (FOR STEEL H-PILING)

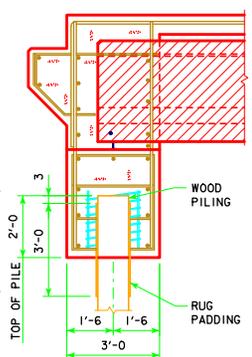
NOTE: THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 2 1/4" DIAMETER, 3" PITCH WITH 3 - 1/4" x 1/4" x 1/4" SPACERS PUNCHED TO HOLD SPIRAL.



PLAN OF TEMPORARY PAVING BLOCK

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

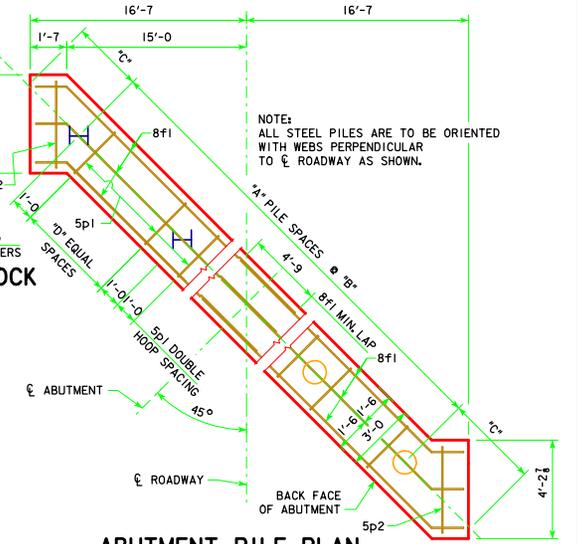
SPACING FOR:
39- 8g1 BACK FACE
30- 8g1 FRONT FACE
33- 8g3 BACK FACE
34- 5k1 & 5k2 BACK FACE



PART SECTION B-B (FOR WOOD PILING)

WOOD PILING NOTE:
AFTER PILES ARE CUT OFF, THE UPPER 3', EXCEPT AS SHOWN, IS TO BE WRAPPED WITH A DOUBLE THICKNESS OF RUG PADDING HELD IN PLACE BY TACKING WITH GALVANIZED ROOFING NAILS AND WRAPPED WITH #14 GAUGE GALVANIZED WIRE AT A 4" PITCH. CARE IS TO BE TAKEN NOT TO DAMAGE PADDING WHEN PLACING CONCRETE. RUG PADDING MAY BE EITHER OF THE FOLLOWING:

- (1) HAIR AND JUTE RUG PADDING, RUBBERIZED ON BOTH SIDES, AND WEIGHING NOT LESS THAN 47 OZ. PER SQ. YD.
- (2) BONDED URETHANE OR BONDED POLYFOAM WITH A MINIMUM DENSITY OF 5 LBS. PER CU. FT. AND SHALL BE AT LEAST 1/2 IN. THICK, (MATERIAL LESS THAN 1/2 IN. IN THICKNESS MAY BE USED, BUT WILL REQUIRE ADDITIONAL WRAPS FOR A TOTAL OF AT LEAST ONE INCH).



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.

LATEST REVISION DATE
04-13
APPROVED BY BRIDGE ENGINEER
Thomas E. M. Donnell

Iowa Department of Transportation
Highway Division

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

ABUTMENT DETAILS 45° SKEW A & B BEAMS	H30-25-06
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