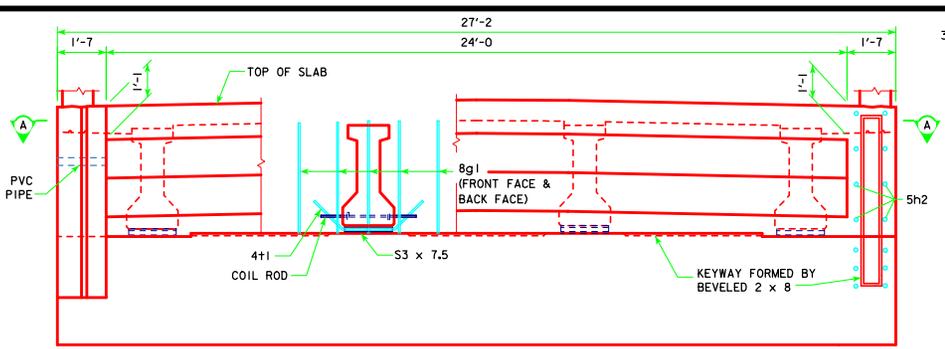
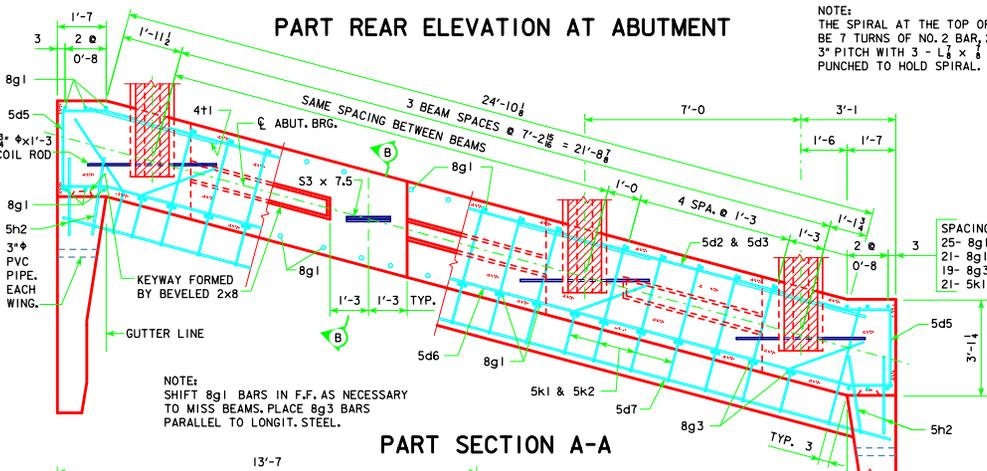


REVISED 05-13 - REVISION FOR LRPD PILE DESIGN.



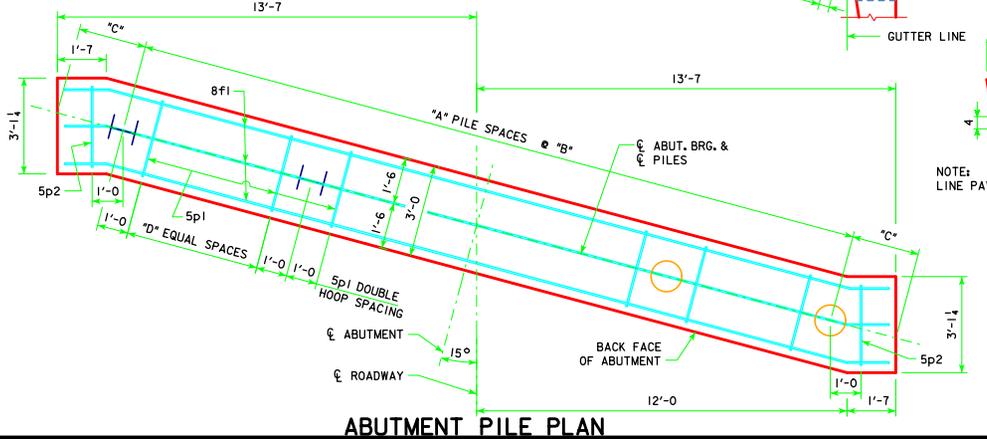
PART REAR ELEVATION AT ABUTMENT

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

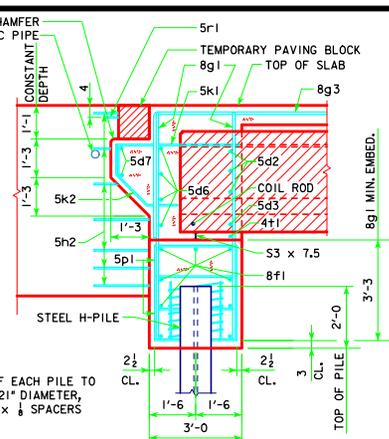


PART SECTION A-A

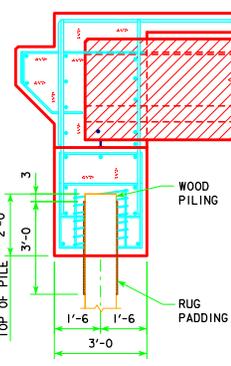
NOTE: SHIFT 8g1 BARS IN F.F. AS NECESSARY TO MISS BEAMS. PLACE 8g3 BARS PARALLEL TO LONGIT. STEEL.



ABUTMENT PILE PLAN



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



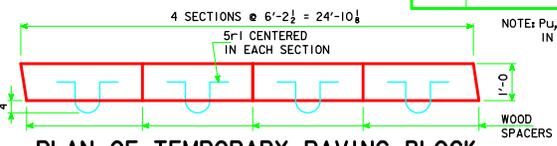
PART SECTION B-B (FOR WOOD PILING)

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 SPACING		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10
WITH WOOD PILES	*A* PILE SPACES		9	10	10	10	10
	B (FT. - IN.)		2'-9	2'-6	2'-6	2'-6	2'-6
	C (FT. - IN.)		1'-8 1/2	1'-6 3/4	1'-6 3/4	1'-6 3/4	1'-6 3/4
	D EQUAL SPACES		1	1	1	1	1
NO. OF PILES PER ABUT.			10	11	11	11	11
PU, STRENGTH I DESIGN LOAD (KIPS)			56	53	57	59	61
WITH STEEL H-PILES	*A* PILE SPACES		4	4	4	4	5
	B (FT. - IN.)		5'-10	5'-10	5'-10	5'-10	4'-8
	C (FT. - IN.)		2'-4 3/4	2'-4 3/4	2'-4 3/4	2'-4 3/4	2'-4 3/4
	D EQUAL SPACES		4	4	4	4	3
NO. OF PILES PER ABUT.			5	5	5	5	6
PU, STRENGTH I DESIGN LOAD (KIPS)			125	130	138	143	123

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



PLAN OF TEMPORARY PAVING BLOCK

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

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.
- PLACE 5h2 BAR AT 1:6 SLOPE TO MATCH TRAFFIC SIDE OF ABUTMENT WING FACE. (BOTH SIDES TYPICAL)
- BARRIER RAIL NOT SHOWN IN DETAILS.
- IF ROCK IS CLOSER THAN 15' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.

LATEST REVISION DATE
05-13
APPROVED BY BRIDGE ENGINEER
Thomas E. McQuill

**Iowa Department of Transportation
Highway Division**

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

**PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES**

DECEMBER, 2006

ABUTMENT DETAILS 15° SKEW A & B BEAMS	H24-11-06
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