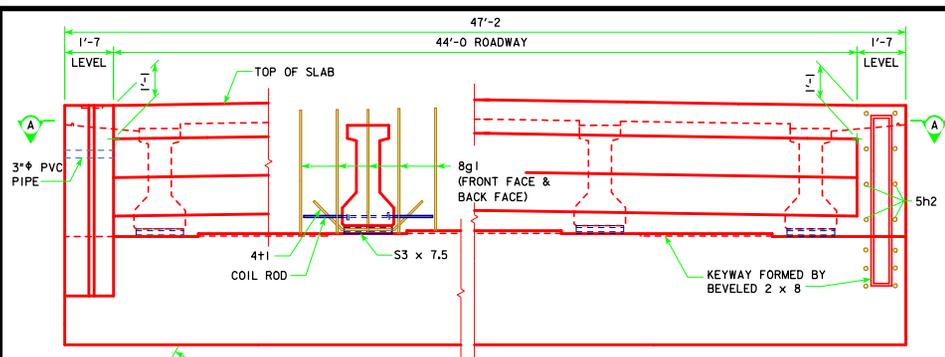
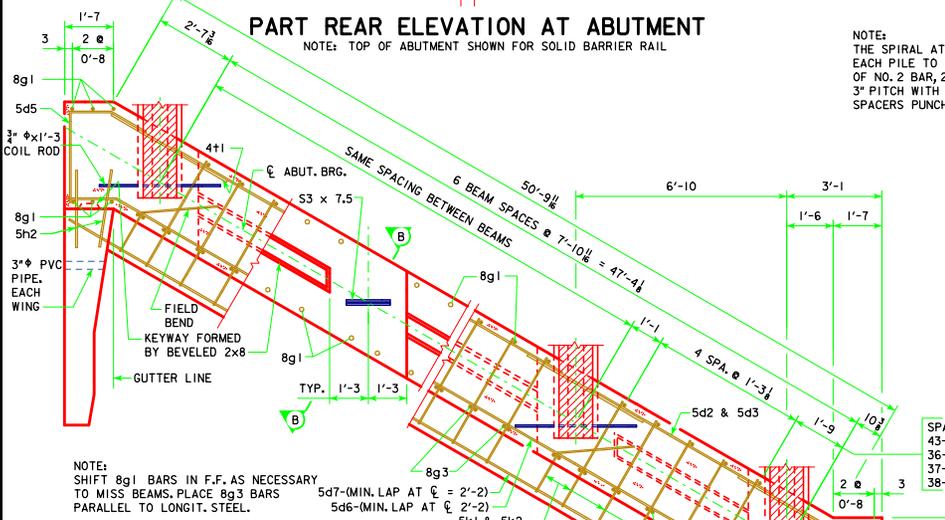


REVISED 05-13 - REVISION FOR LRPD PILE DESIGN.



PART REAR ELEVATION AT ABUTMENT

NOTE: TOP OF ABUTMENT SHOWN FOR SOLID BARRIER RAIL



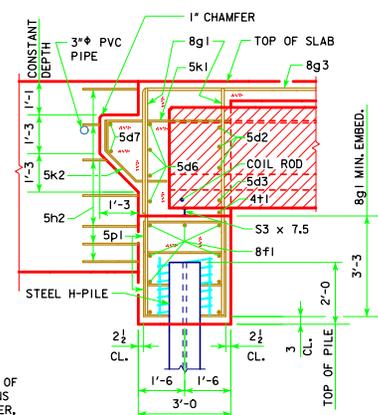
PART SECTION A-A

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

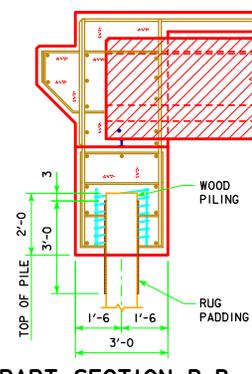
ABUTMENT PILE SPACING		CL-CL ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10
WITH WOOD PILES	*A* PILE SPACES		14	15	16	17	17
	B (FT. - IN.)		3'-6	3'-3	3'-0	2'-10	2'-10
	C (FT. - IN.)		2'-8 3/4	2'-10 1/4	3'-2 3/4	3'-1 3/4	3'-1 3/4
	D EQUAL SPACES		2	1	1	1	1
	NO. OF PILES PER ABUT.		15	16	17	18	18
PU, STRENGTH I DESIGN LOAD (KIPS)			58	56	57	56	57
WITH STEEL H-PILES	*A* PILE SPACES		7	7	7	7	7
	B (FT. - IN.)		7'-0	7'-0	7'-0	7'-0	7'-0
	C (FT. - IN.)		2'-8 3/4	2'-8 3/4	2'-8 3/4	2'-8 3/4	2'-8 3/4
	D EQUAL SPACES		4	4	4	4	4
	NO. OF PILES PER ABUT.		8	8	8	8	8
PU, STRENGTH I DESIGN LOAD (KIPS)			117	122	131	135	139

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

NOTE: THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 21\"/>



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



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\"/>

- (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 NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2\"/>

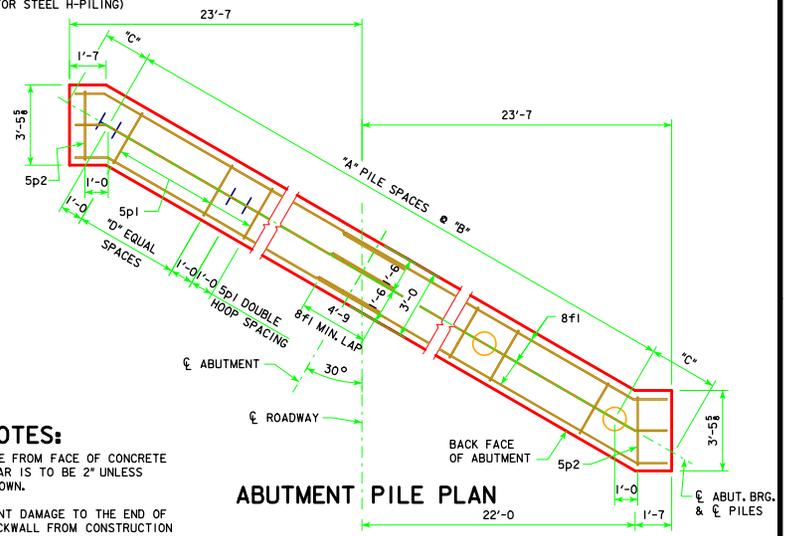
IF NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR AT NO EXTRA COST TO THE COUNTY OR STATE.

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.



ABUTMENT PILE PLAN

LATEST REVISION DATE: 05-13
 APPROVED BY BRIDGE ENGINEER: *Thomas E. M. Donnell*

Iowa Department of Transportation
 Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

MARCH, 2007

ABUTMENT DETAILS 30° SKEW A & B BEAMS	H44-18-07
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