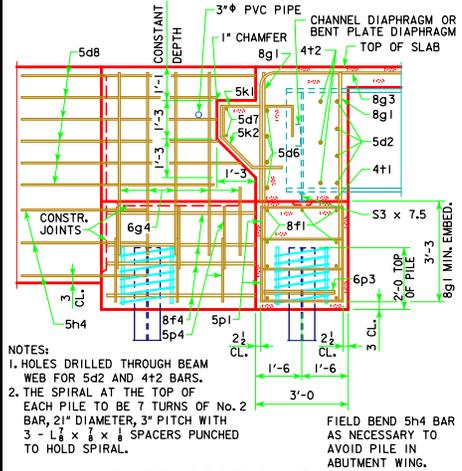


**PART REAR ELEVATION AT ABUTMENT**  
(WINGS NOT SHOWN)

ABUTMENT PILE SPACING	
DIMENSION OR NO.	℄ TO ℄ ABUTMENT BEARING
"A"	10
"B" (FT-IN)	5'-6
"C" EQUAL SPACES	4
NO. OF PILES PER ABUT.	13
PU, STRENGTH I DESIGN LOAD (KIPS)	137

NOTE: HP 10 x 57 STEEL BEARING PILING REQUIRED.  
NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**NOTES:**  
1. HOLES DRILLED THROUGH BEAM WEB FOR 5d2 AND 4t2 BARS.  
2. THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF No. 2 BAR, 21" DIAMETER, 3" PITCH WITH 3 - L $\frac{1}{2}$  x  $\frac{1}{4}$  x  $\frac{1}{4}$  SPACERS PUNCHED TO HOLD SPIRAL.  
FIELD BEND 5h4 BAR AS NECESSARY TO AVOID PILE IN ABUTMENT WING.

**PART SECTION B-B**

**PART SECTION A-A**

**ABUTMENT NOTES:**

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.  
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.  
BARRIER RAIL NOT SHOWN IN DETAILS.  
IF ROCK IS CLOSER THAN 15' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.

- SPACING FOR:**  
48 - 8g1 BACK FACE  
36 - 8g1 FRONT FACE  
42 - 8g3 BACK FACE  
43 - 5k1 BACK FACE  
43 - 5k2 BACK FACE

**NOTE:**  
ABUTMENT STEP DIAGRAM PROVIDED BY DESIGNER, SEE "GENERAL INFORMATION" SHEET (WORKING STANDARD 5251).

ALL STEEL PILES ARE TO BE ORIENTED WITH WEBS PERPENDICULAR TO ℄ OF ROADWAY AS SHOWN.

**ABUTMENT PILE PLAN**



STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES  
**ROLLED STEEL BEAM BRIDGES**  
OCTOBER, 2014

LATEST REVISION DATE  
*Norman E. McQuinn*  
APPROVED BY BRIDGE ENGINEER

**ABUTMENT DETAILS**  
45° SKEW

RS40-016-14