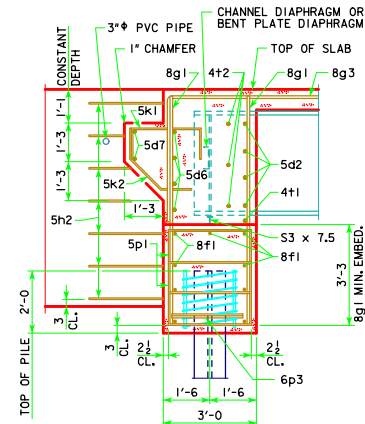
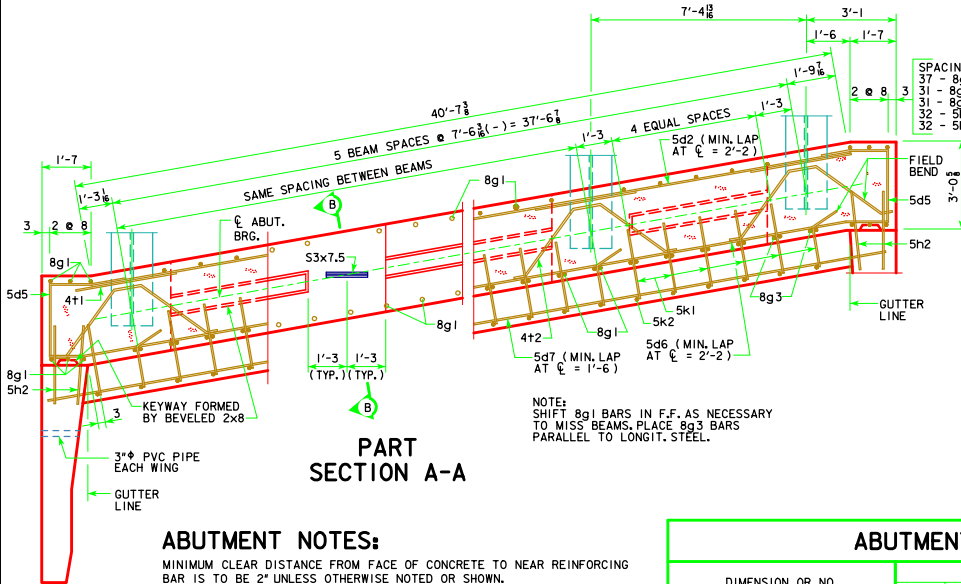


**PART REAR ELEVATION AT ABUTMENT**

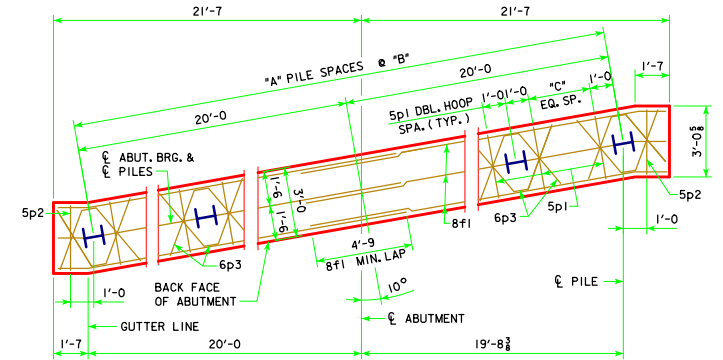


**PART SECTION B-B**

- NOTES:**
- HOLES DRILLED THROUGH BEAM WEB FOR 5d2 AND 4t2 BARS.
  - THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF No. 2 BAR, 2 1/2\"/>



**PART SECTION A-A**



**ABUTMENT PILE PLAN**

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

**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 SPACING**

DIMENSION OR NO.	℄ TO ℄ ABUTMENT BEARING									
	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0	320'-0	
"A"	7	7	7	8	8	8	8	9	9	9
"B" (FT-IN)	5'-8 3/8	5'-8	5'-8 3/8	5'-0	5'-0	5'-0	4'-5 5/8	4'-5 5/8	4'-5 5/8	4'-5 5/8
"C" EQUAL SPACES	4	4	4	3	3	3	3	3	3	3
NO. OF PILES PER ABUT.	8	8	8	9	9	9	10	10	10	10
PI, STRENGTH I DESIGN LOAD (KIPS)	131	138	144	132	137	143	132	136	138	

NOTE: HP 10 x 57 STEEL BEARING PILING REQUIRED.

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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER  
*Norman E. McQuinn*



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

OCTOBER, 2014

**ABUTMENT DETAILS**  
 10° SKEW

RS40-009-14