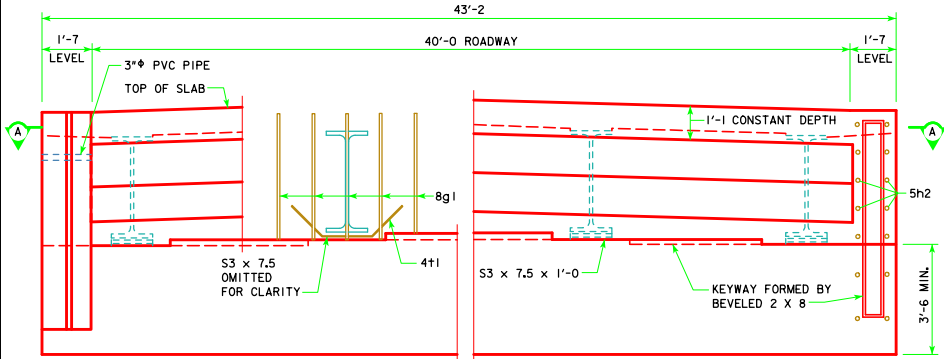
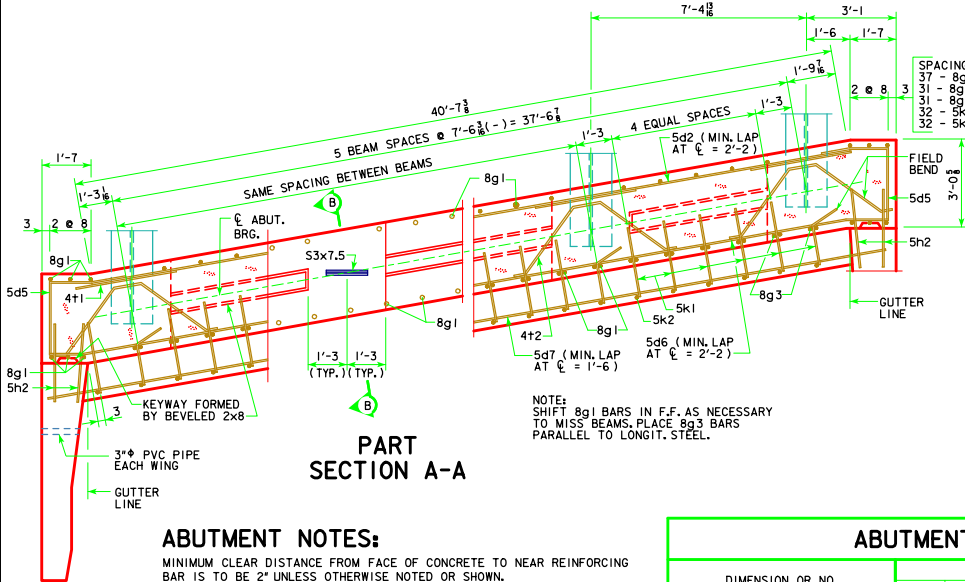


REVISED 05-13 - REVISION FOR LRED PILE DESIGN.



PART REAR ELEVATION AT ABUTMENT



PART SECTION A-A

ABUTMENT NOTES:

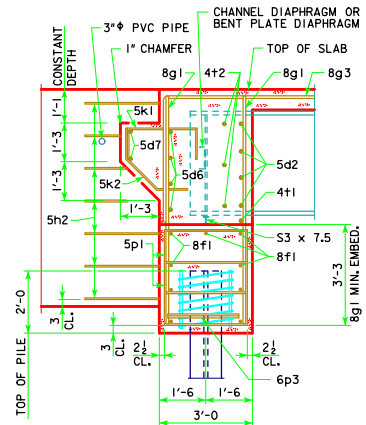
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2\"/>

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.

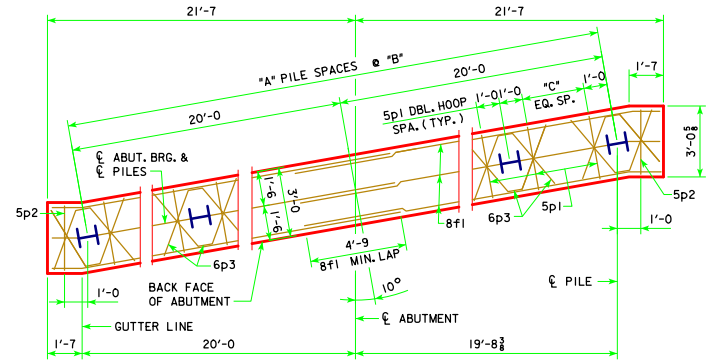
IF ROCK IS CLOSER THAN 15' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.



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\"/>

SPACING FOR:
 37 - 8g1 BACK FACE
 31 - 8g1 FRONT FACE
 32 - 8g3 BACK FACE
 32 - 5k1 BACK FACE
 32 - 5k2 BACK FACE



ABUTMENT PILE PLAN

NOTE:
 ABUTMENT STEP DIAGRAM PROVIDED BY DESIGNER, SEE "ESTIMATED BRIDGE QUANTITIES" SHEET.

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.

05-13
 LATEST REVISION DATE
 Approved by Bridge Engineer
 [Signature]



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

JUNE, 2010

ABUTMENT DETAILS
 10° SKEW

RS40-009-10