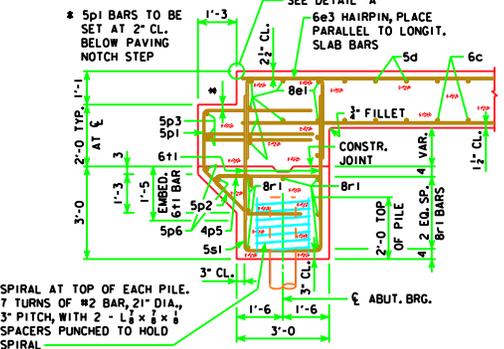
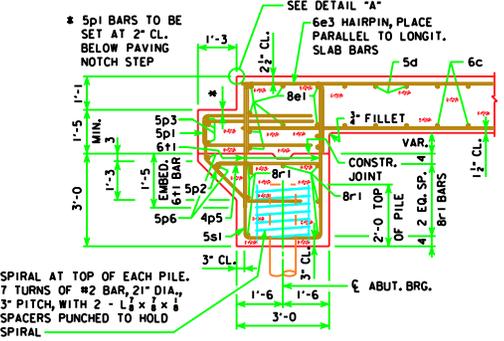


PILE PLAN - 0° SKEW WOOD PILING

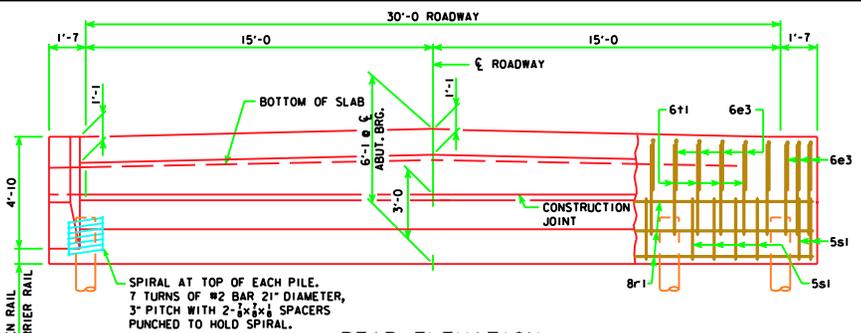


SECTION NORMAL TO ABUTMENT AT GUTTERLINE

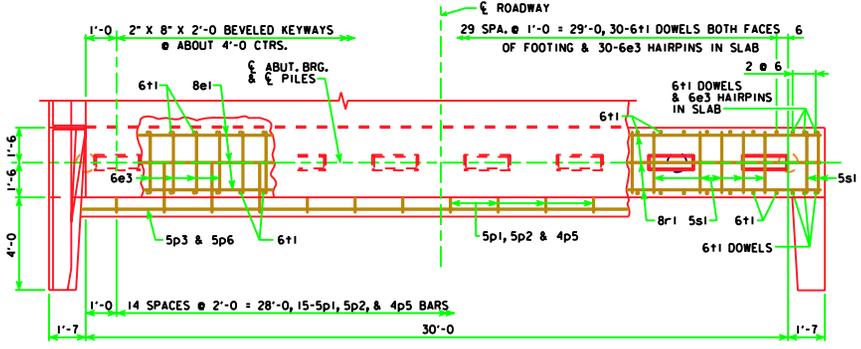


SECTION NORMAL TO ABUTMENT AT GUTTERLINE

**ABUTMENT NOTES:**  
 THE CONCRETE AND REINFORCING STEEL FOR THE WINGS IS INCLUDED WITH THE SUPERSTRUCTURE.  
 DETAILS ON THIS SHEET ARE TO BE USED ONLY WHEN ABUTMENTS ARE PLACED ON TIMBER PILES.  
 THE MINIMUM CLEAR DISTANCE FROM THE FACE OF THE CONCRETE TO NEAR REINFORCING BAR IS TO BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.  
 THE ABUTMENT PILES ARE TO BE DRIVEN TO FULL PENETRATION, IF PRACTICABLE, BUT IN NO CASE TO A BEARING VALUE LESS THAN THE PILE BEARING REQUIRED FOR EACH BRIDGE LENGTH AS SHOWN ON THIS SHEET, NOR TO MORE THAN 40 TONS PER BEARING PILE.  
 ALL REINFORCING STEEL IS TO BE GRADE 60.  
 ABUTMENT PILING WAS DESIGNED FOR HS25 LOADING WITH AN ALLOWANCE FOR 20 LBS. PER SQ. FT. FUTURE WEARING SURFACE.



REAR ELEVATION

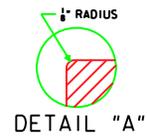


PLAN VIEW

NOTE: WING REINFORCING AND RAIL NOT SHOWN.  
 5p1, 5p3, 6e3 AND 8e1 ARE INCLUDED WITH SUPERSTRUCTURE QUANTITIES.

REACTION, PILE NUMBER & BEARING									
BRIDGE LENGTH	70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
REACTION - KIPS	265	287	306	325	344	366	387	Δ 449	Δ 474
BEARING - TONS	19	18	20	18	20	19	20	19	20
PILING - NUMBER	7	8	8	9	9	10	10	12	12

Δ INCLUDES IMPACT



DETAIL "A"

LATEST REVISION DATE  
 APPROVED BY BRIDGE ENGINEER  
*Thomas E. M. Dwyer*

**Iowa Department of Transportation**  
**Highway Division**

STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES  
**CONTINUOUS CONCRETE**  
**SLAB BRIDGES**  
 NOVEMBER, 2006

ABUTMENT DETAILS  
 0° SKEW - TIMBER PILING

J30-27-06