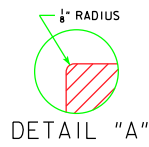


NOTE: WING REINFORCING AND RAIL NOT SHOWN.  
6e3, 6e4 AND 8e ARE INCLUDED WITH SUPERSTRUCTURE QUANTITIES.



**ABUTMENT NOTES:**

- ALL PILING ARE HP 10 X 42.
- 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 STEEL PILES. IF ROCK IS ENCOUNTERED CLOSER THAN 12" BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.
- THE MINIMUM CLEAR DISTANCE FROM THE FACE OF THE CONCRETE TO NEAR REINFORCING BAR IS TO BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.
- STEEL PILING USED AS FRICTION PILE SHALL 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.
- ALL REINFORCING STEEL IS TO BE GRADE 60.
- ABUTMENT PILING WAS DESIGNED FOR HL-93 LOADING WITH AN ALLOWANCE FOR 20 LBS. PER SQ. FT. FUTURE WEARING SURFACE.

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	381	405	427	455	482	514	545	Δ 622	Δ 659
BEARING - TONS	28	29	31	33	35	37	35	35	37
PILING - NUMBER	7	7	7	7	7	7	8	9	9
STRENGTH I REACTION - KIPS	504	539	571	613	653	699	744	Δ 869	Δ 922

Δ INCLUDES IMPACT

LATEST REVISION DATE  
11-08

*Thomas C. McQuinn*  
APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES  
**CONTINUOUS CONCRETE SLAB BRIDGES**  
NOVEMBER, 2006

J44-39-06

ABUTMENT DETAILS  
0° SKEW - STEEL PILING

REVISED 11-08 - REVISED SHEET FOR NEW PAVING NOTCH & WING. DESIGN FOR HL-93 LOADING.