

**ABUTMENT NOTES:**

THE CONCRETE AND REINFORCING STEEL FOR THE WINGS IS INCLUDED WITH THE SUPERSTRUCTURE.

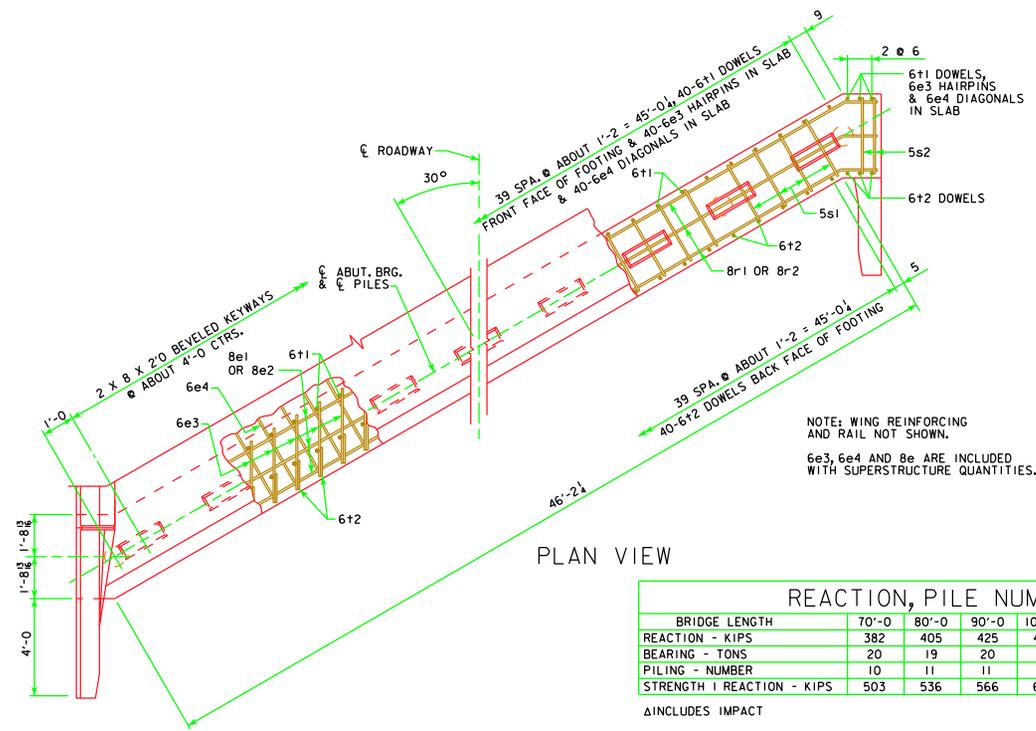
DETAILS ON THIS SHEET ARE TO BE USED ONLY WHEN ABUTMENTS ARE PLACED ON TIMBER PILES.

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 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	382	405	425	451	476	506	534	Δ 609	Δ 643
BEARING - TONS	20	19	20	19	20	20	20	20	19
PILING - NUMBER	10	11	11	12	12	13	14	16	17
STRENGTH I REACTION - KIPS	503	536	566	606	644	687	729	Δ 852	Δ 901

Δ INCLUDES IMPACT

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

11-08 LATEST REVISION DATE  <i>Thomas C. McQuinn</i> APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>CONTINUOUS CONCRETE          SLAB BRIDGES</b> NOVEMBER, 2006	
	ABUTMENT DETAILS 30° SKEW - TIMBER PILING	J40-34-06