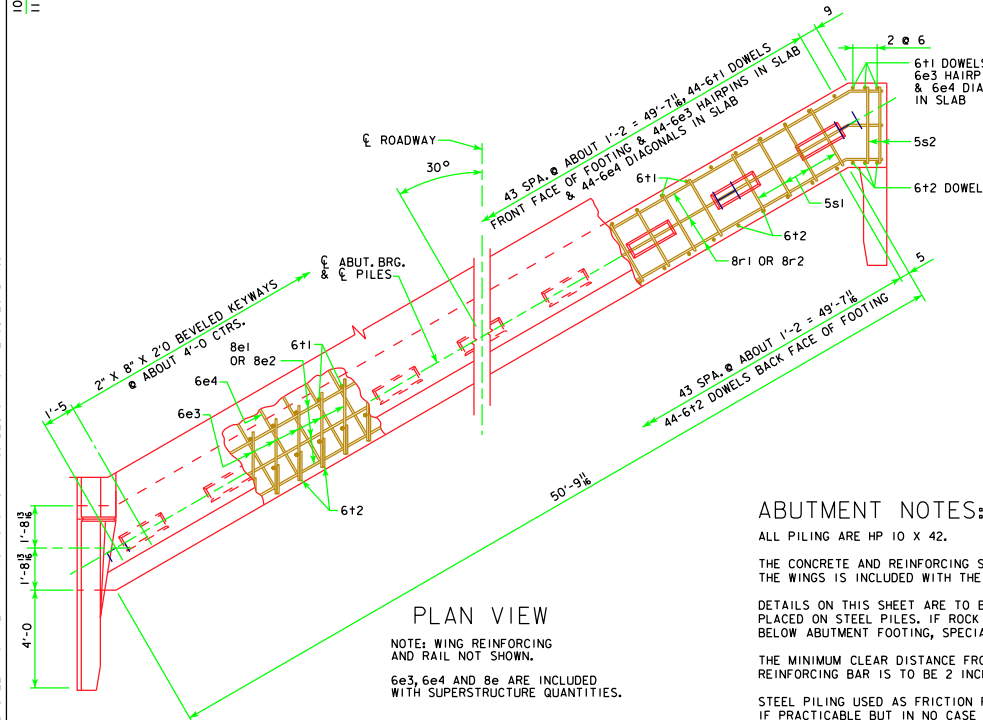
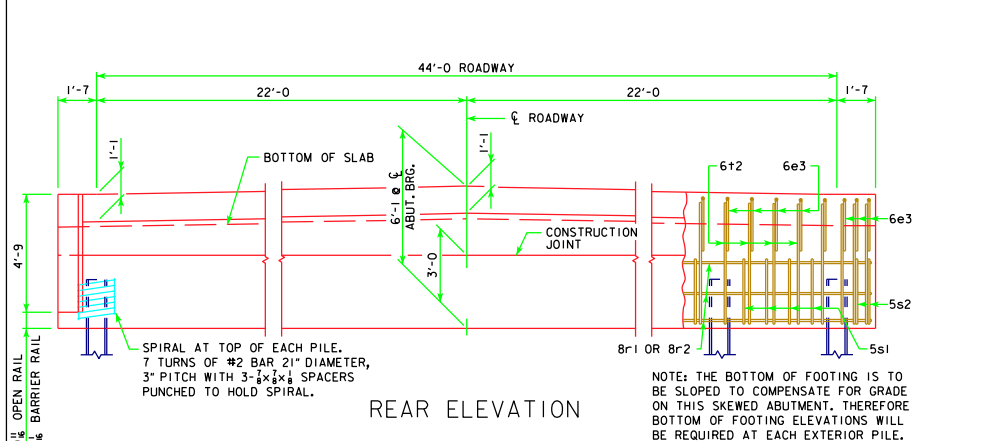
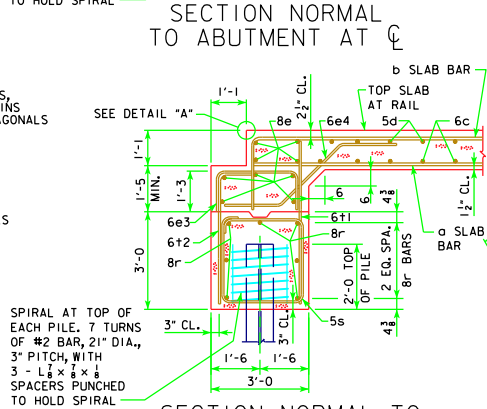
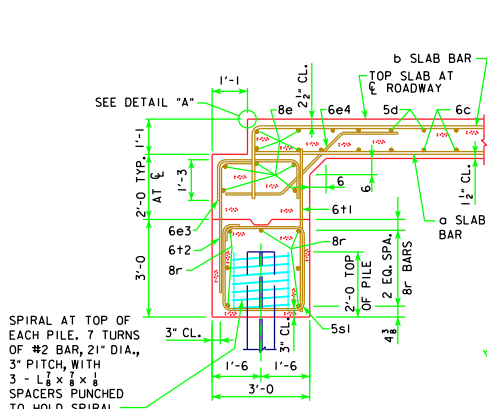


REVISED 11-08 - REVISED SHEET FOR NEW PAVING NOTCH & WING. DESIGN FOR HL-93 LOADING.

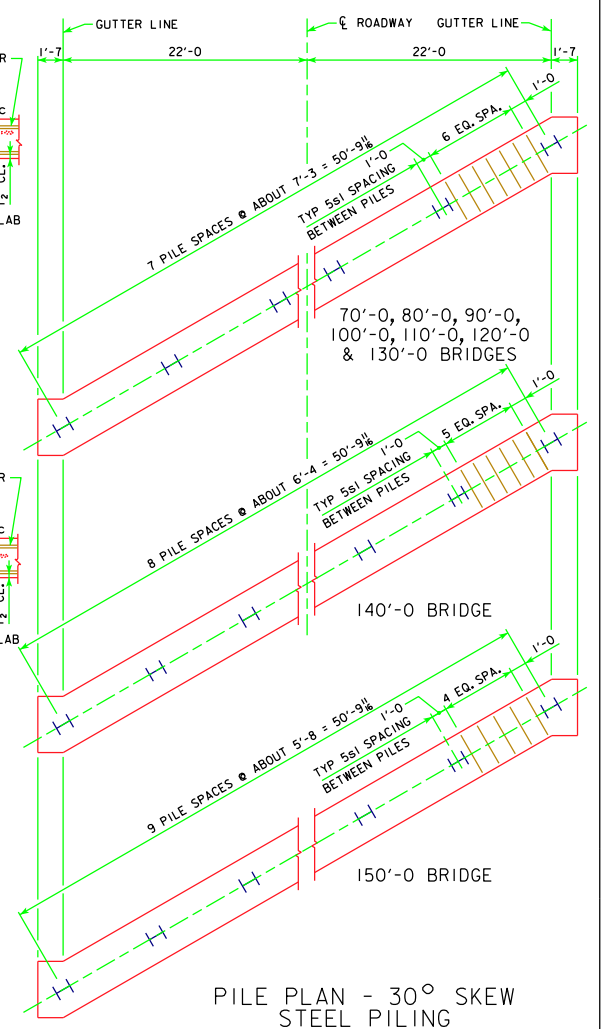


REACTION, PILE NUMBER & BEARING									
BRIDGE LENGTH	70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"
REACTION - KIPS	404	428	450	478	505	536	567	Δ 644	Δ 681
BEARING - TONS	26	27	29	30	32	34	36	36	35
PILING - NUMBER	8	8	8	8	8	8	8	9	10
STRENGTH I REACTION - KIPS	527	562	594	636	676	723	768	Δ 893	Δ 946
Δ INCLUDES IMPACT									



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.



LATEST REVISION DATE 11-08	APPROVED BY BRIDGE ENGINEER <i>Thomas C. McQuinn</i>		
		STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
		30° ABUTMENT DETAILS SKEW - STEEL PILING	J44-41-06