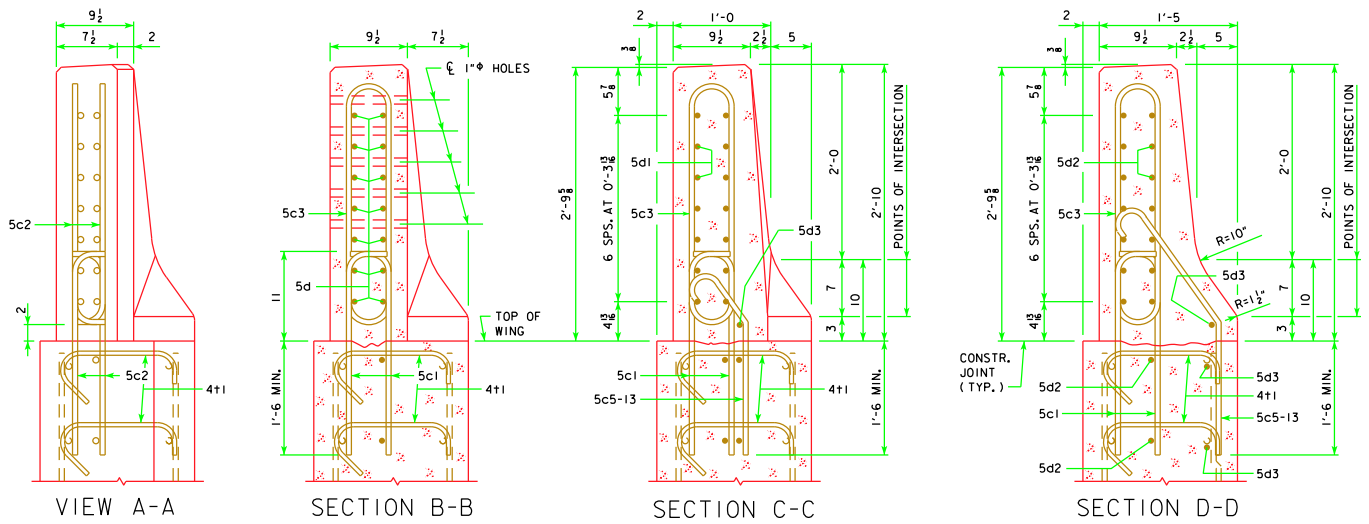
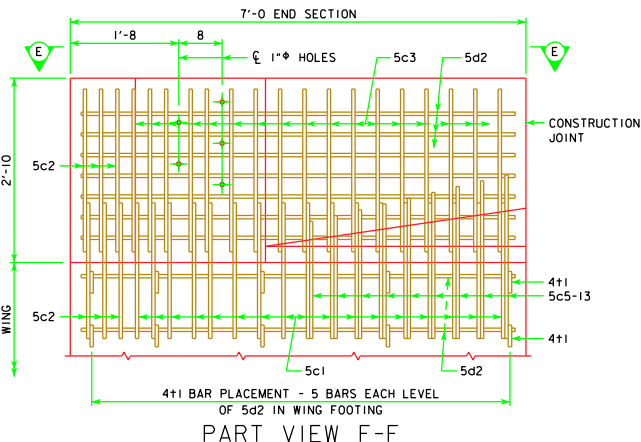
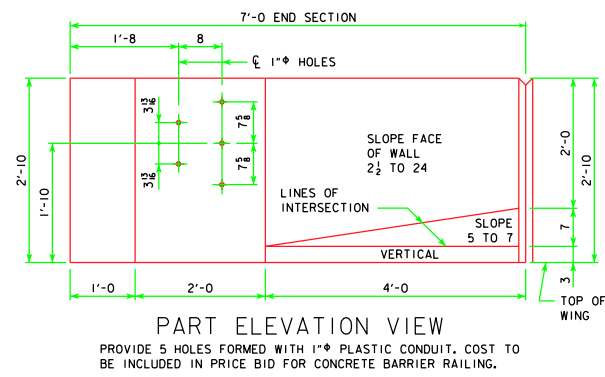
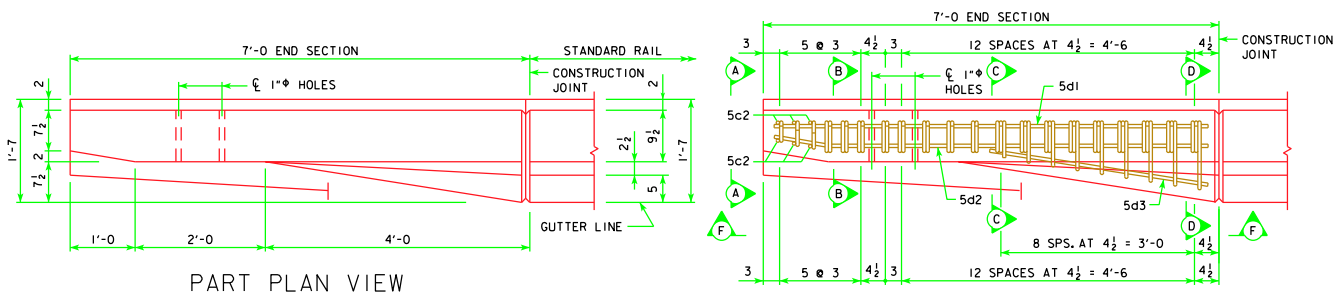
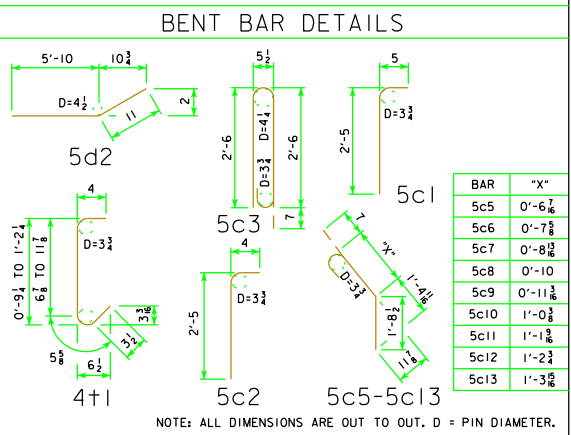




REINFORCING STEEL - ONE END SECTION					
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
5c1	VERTICAL, RAIL TO WING FOOTING		34	2'-10	100
5c2	VERTICAL AT NOSE, RAIL TO WING FOOTING		12	2'-9	34
5c3	VERTICAL		17	6'-1	108
5c5-13	VERTICAL		9	VARIES	35
5d1	HORIZONTAL		7	6'-8	49
5d2	HORIZONTAL		9	6'-9	63
5d3	HORIZONTAL		3	3'-5	11
4+1	WING FOOTING TIE BARS		10	VARIES	13
(INCLUDE WITH BARRIER RAIL REINFORCING)				TOTAL WEIGHT (LBS.)	413

CONCRETE PLACEMENT SUMMARY	
SECTION	TOTAL
BARRIER RAIL ONE END SECTION	0.62 CU. YD.



NOTES:

CONSTRUCTION JOINT BETWEEN TOP OF WING AND BARRIER IS ROUGHENED CONCRETE.

THE 10" RADIUS AND 1 1/2" RADIUS ARE TYPICAL AND SHALL BE USED WHEN CONSTRUCTING THE CORNERS FOR VIEW A-A, SECTION B-B, SECTION C-C AND SECTION D-D.

THE 5c1, 6 - 5c2, 5c5-13, 2 - 5d2, 2 - 5d3 AND 4+1 BARS ARE TO BE PLACED WITH THE ABUTMENT WING FOOTING. THE DETAILS FOR PLACEMENT ARE SHOWN ON THE LONGITUDINAL SECTION SHEET.

DASHED LINES BELOW THE TOP OF WING ARE THE ABUTMENT WING REINFORCING STEEL. SEE LONGITUDINAL SECTION SHEETS FOR PLACEMENT.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Thomas E. McQuinn

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

BARRIER RAIL DETAILS
SHEET 2 OF 3

H30-40-06