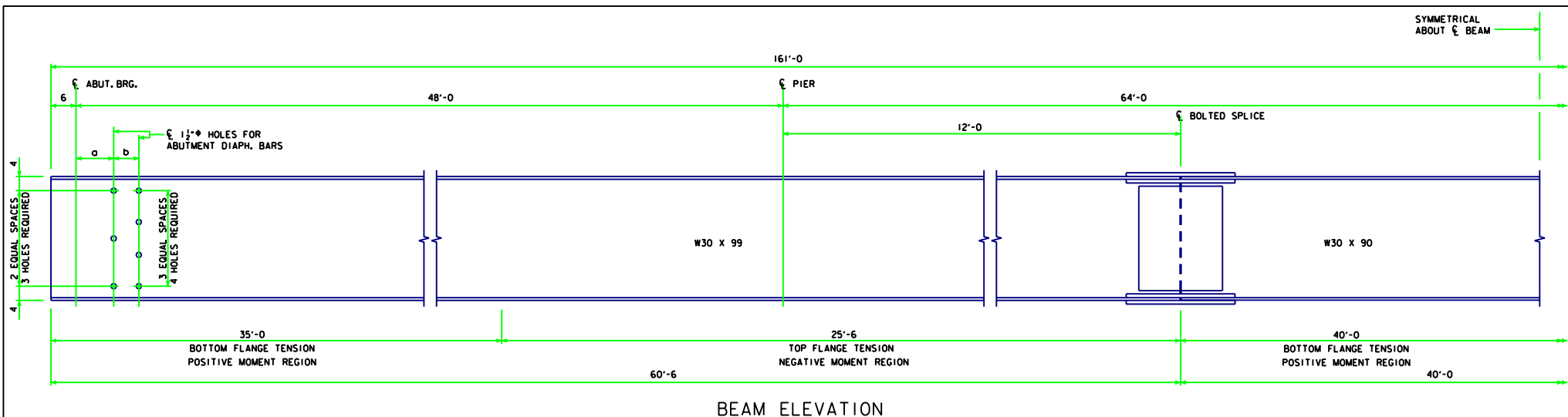
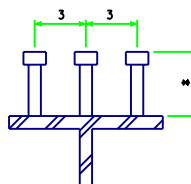


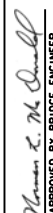
* NOTE: STUD HEIGHTS (3 1/2" OR 5") FOR THE LOCATIONS SHOWN SHALL BE DETERMINED BY THE DESIGNER. ON "MISCELLANEOUS DETAILS 160'-0" BRIDGE" SHEET, STUD HEIGHTS CAN BE IDENTIFIED BY THE DESIGNER IN A TABLE CORRESPONDING TO THE ZONES LISTED ON THIS SHEET.



SHEAR STUD DETAILS

NOTE: ALL STUDS TO BE 1/2"

SKEW	a (IN)	b (IN)
0°	9	6
10°	9 1/8	6 1/8
20°	9 1/4	6 1/4
30°	10 3/8	6 3/8

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004	
		BEAM PLAN AND ELEVATION 160'-0" BRIDGE	RS40-54-04