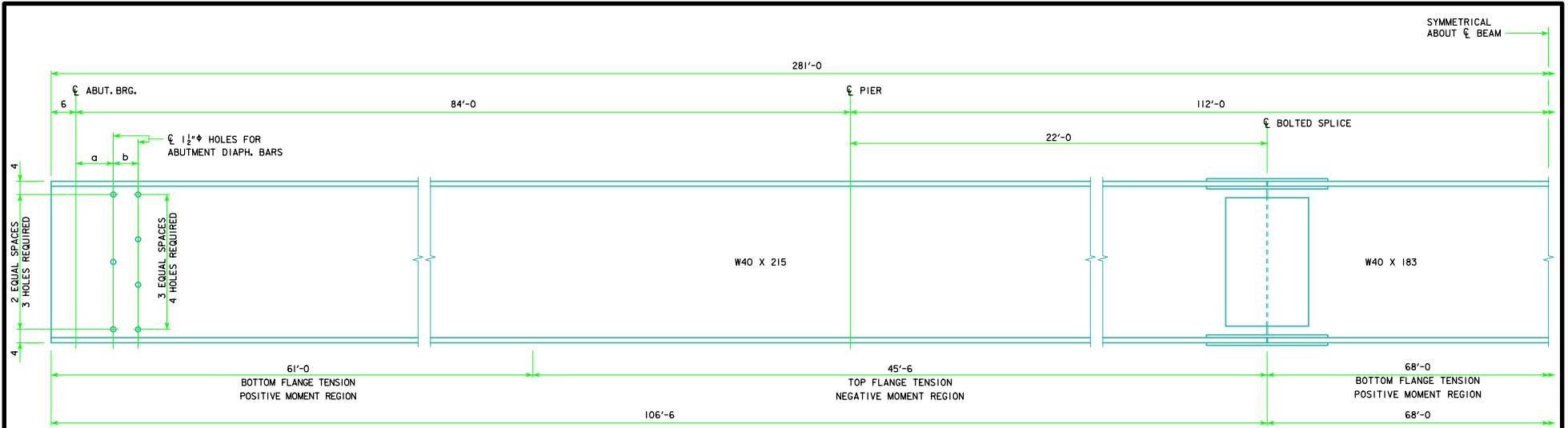
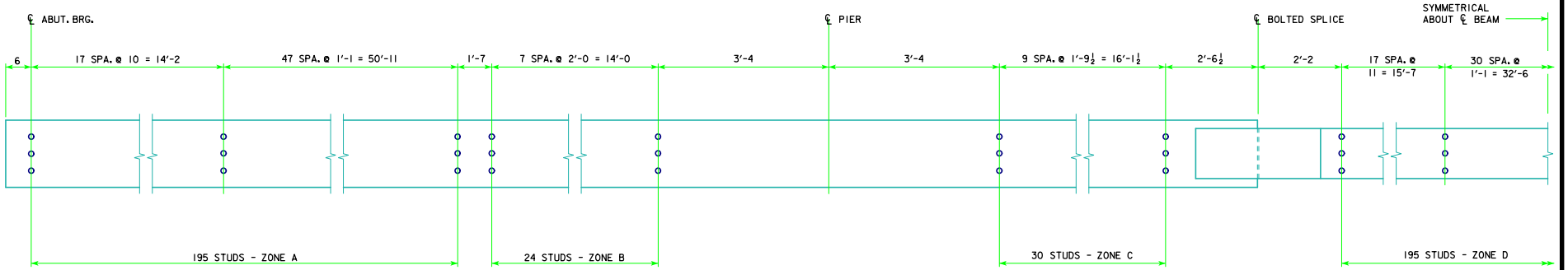


REVISED 02-14 - A STUD HEIGHT OF 4" WAS ADDED TO THE * NOTE.

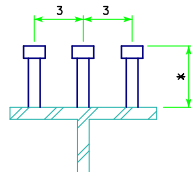


BEAM ELEVATION



SHEAR STUD SPACING

* NOTE: STUD HEIGHTS (3 1/2", 4" OR 5") FOR THE LOCATIONS SHOWN SHALL BE DETERMINED BY THE DESIGNER. ON "MISCELLANEOUS DETAILS 280'-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 7/8" Ø

SKEW	a (IN)	b (IN)
0°	9	6
10°	9 1/2	6 1/2
20°	9 5/8	6 3/4
30°	10 3/8	6 7/8
45°	12 3/4	8 1/2

LATEST REVISION DATE 02-14 APPROVED BY BRIDGE ENGINEER 		Iowa Department of Transportation Highway Division STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010
	BEAM PLAN AND ELEVATION 280'-0 BRIDGE	