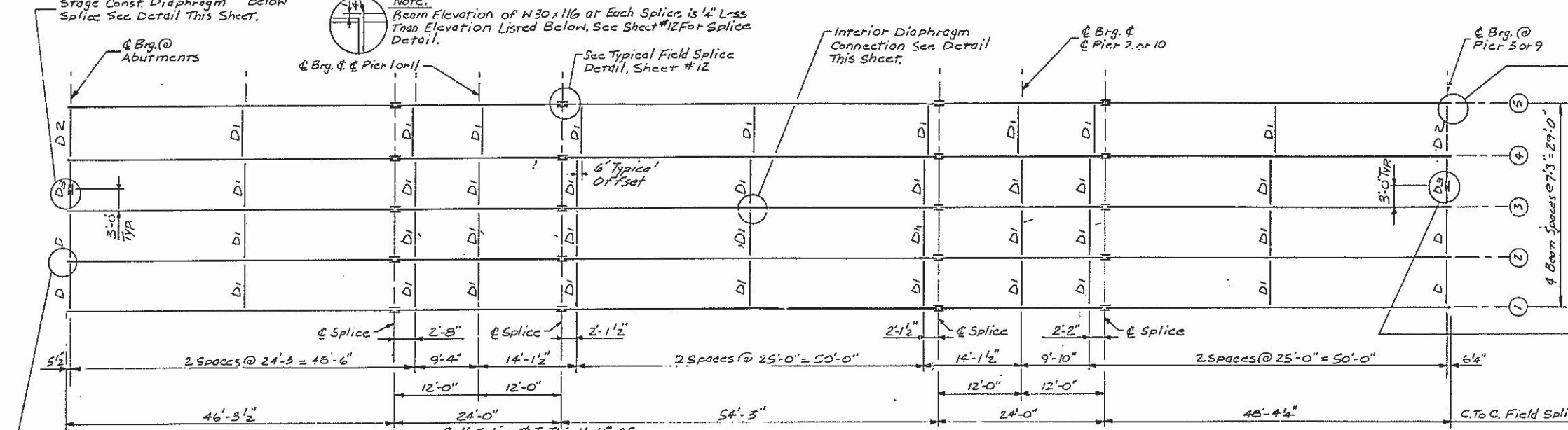
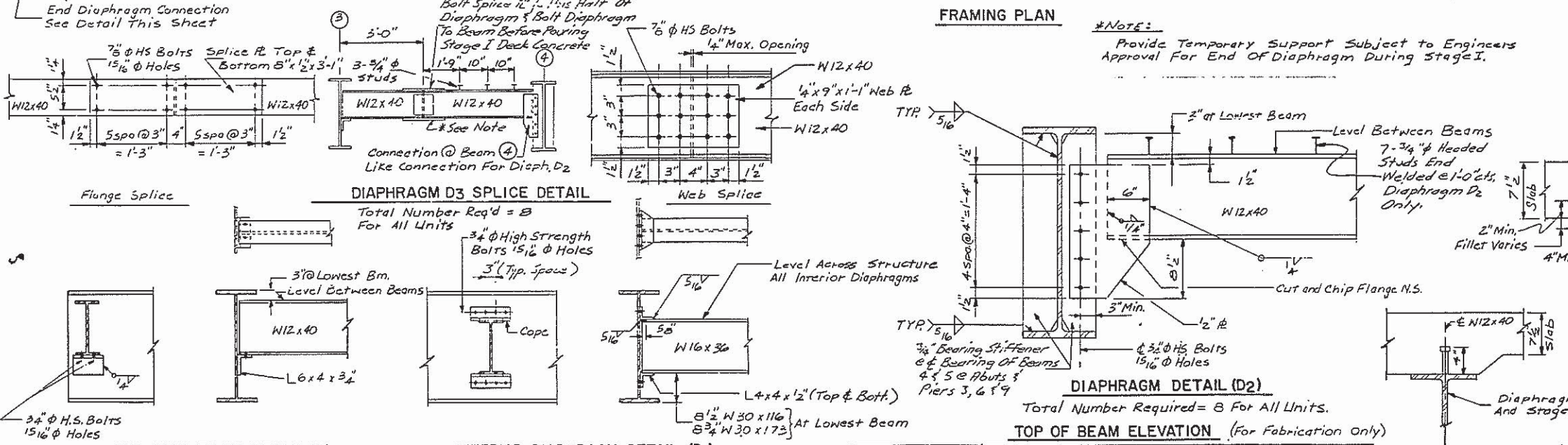


NOTES:
 All Structural Steel to be M222.
 All Bolts to be High Strength M-164 Type 5



NOTE:
 Diaphragm Connection Angles @ Beam #4 Overlap 6". For Stage II Construction, Remove Two Bolts from Top & Bottom Angles. Install Diaphragm Between Beams #3 & #4, Replace Bolts. Bolts to be Replaced Before Loosening Bolts at Next Diaphragm Line.



NOTE:
 Provide Temporary Support Subject to Engineers Approval For End Of Diaphragm During Stage I.

END DIAPHRAGM DETAIL (D)
 Total Number Required = 16 For All Units
NOTE:
 Two Hardened Washers shall be required over all 1 1/2" φ Holes. Typ. All Diaphragms, D, D1, D2.

INTERIOR DIAPHRAGM DETAIL (D1)
 Total Number Required = 144 For All Units

TOP OF BEAM ELEVATION (For Fabrication Only)

Beam	(A) @ Brg @ Abutments	(B) @ Brg @ Pier 1 or 11	(C) @ Brg @ Pier 2 or 10	(D) @ Brg @ Pier 3 or 9
Beam #1	480.56	480.77	480.82	480.86
Beam #2	480.69	480.90	480.95	480.99
Beam #3	480.80	481.01	481.06	481.10
Beam #4	480.69	480.90	480.95	480.99
Beam #5	480.56	480.77	480.82	480.86

DIAPHRAGM SHEAR STUD DETAIL
 No. of Studs Required For All Units = 11,640

FRAMING PLAN - UNITS A & D SANGAMON RIVER OVERFLOW BRIDGE
 F.A. ROUTE 34 (ILLINOIS ROUTE 97)
 SECTION 2BR-1
 MENARD COUNTY
 STATION 756+00