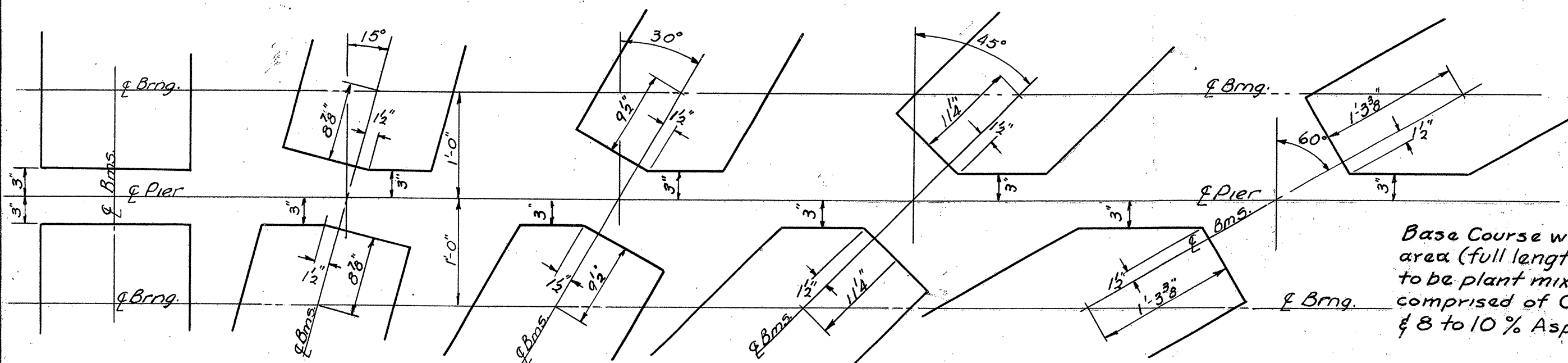
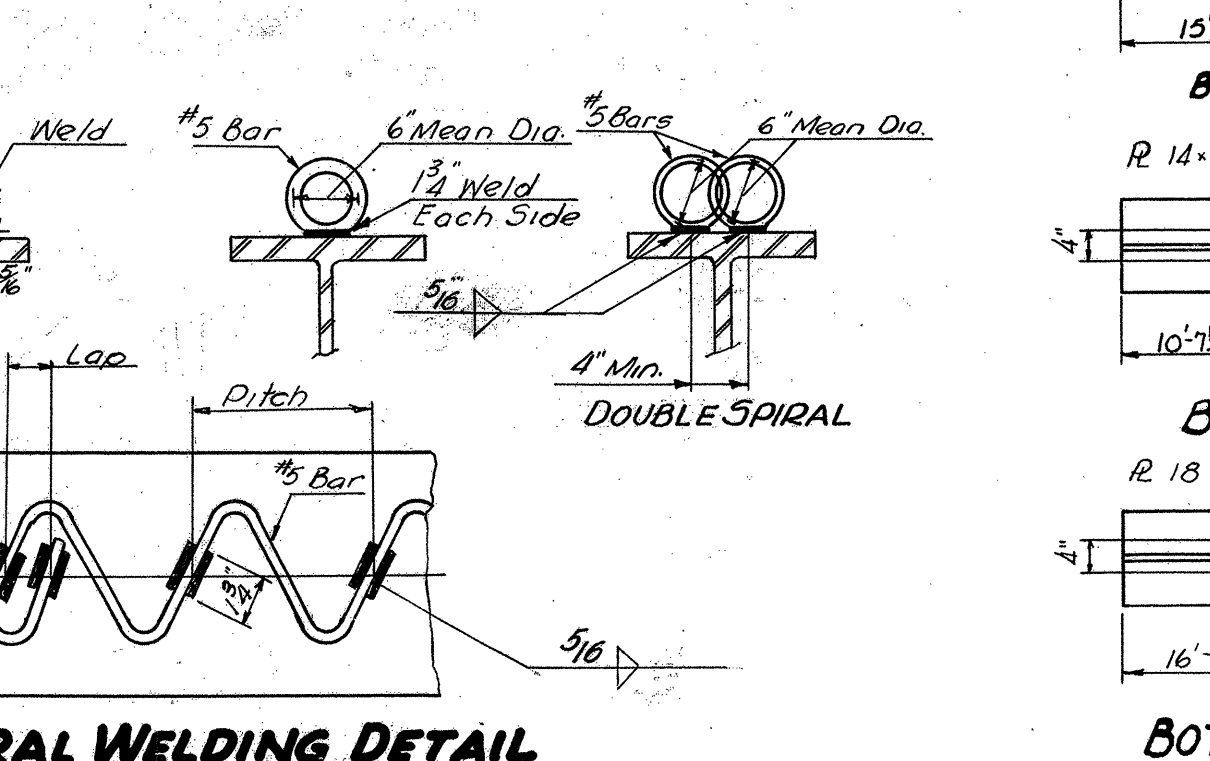
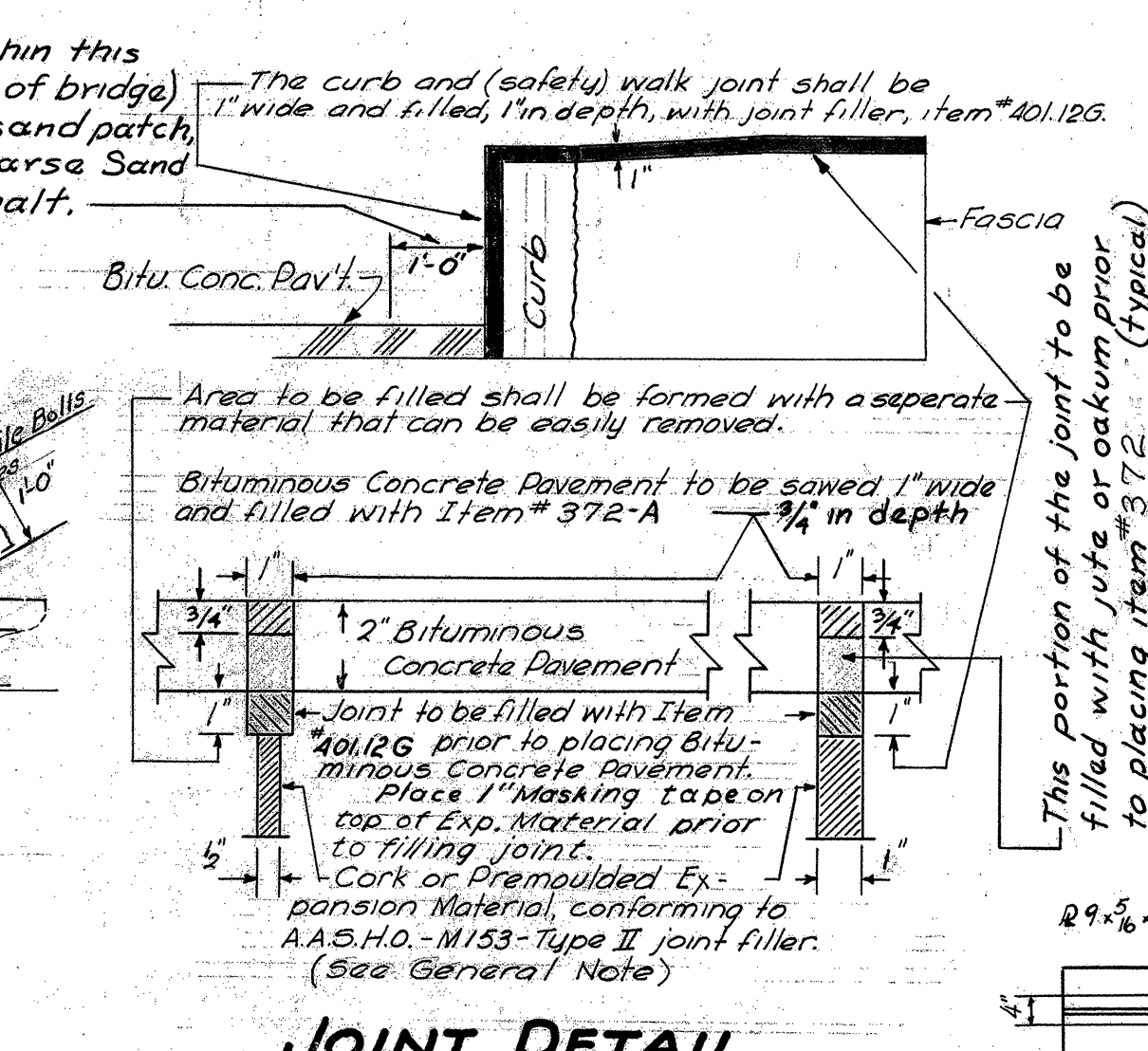
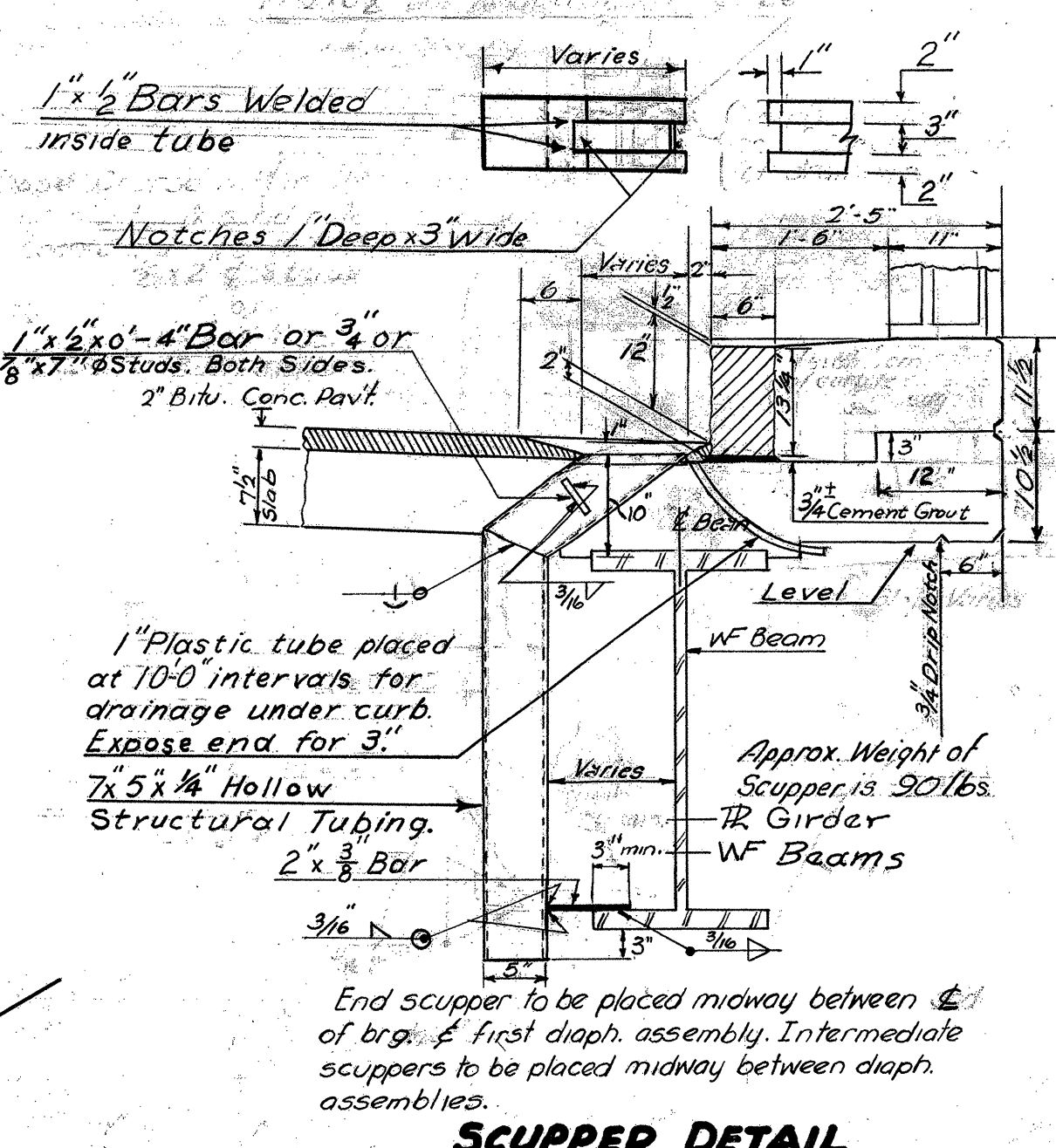
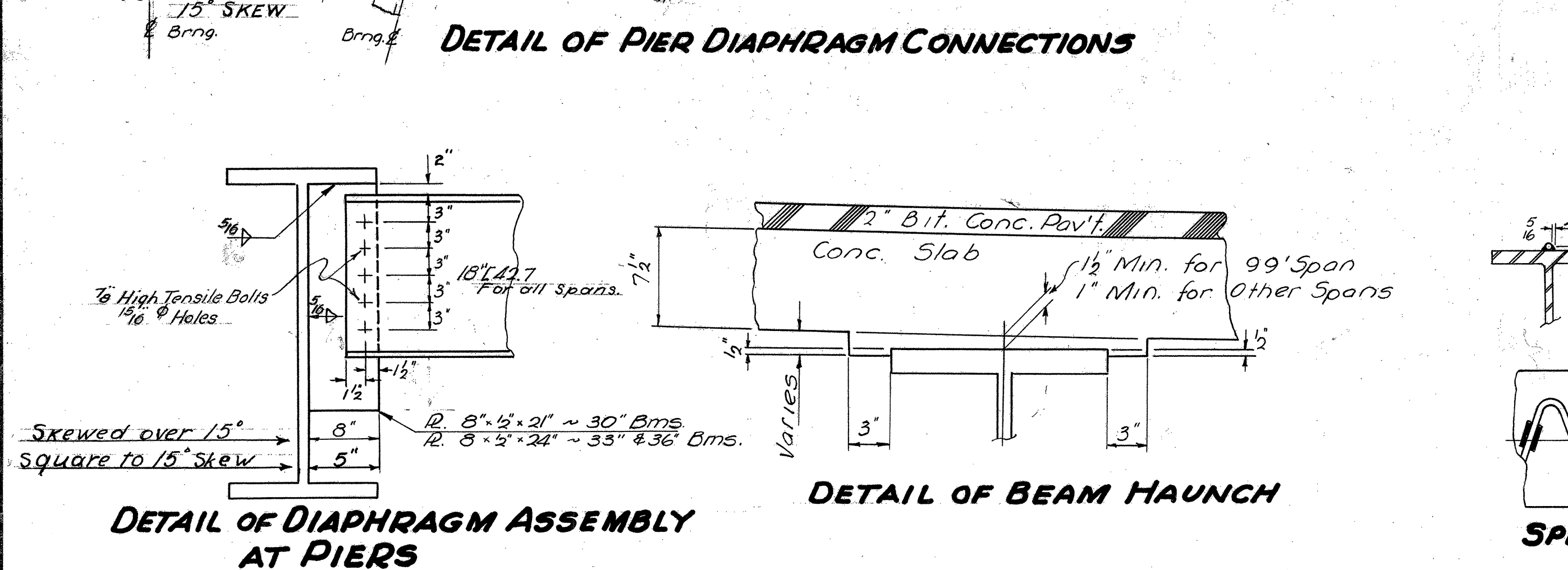
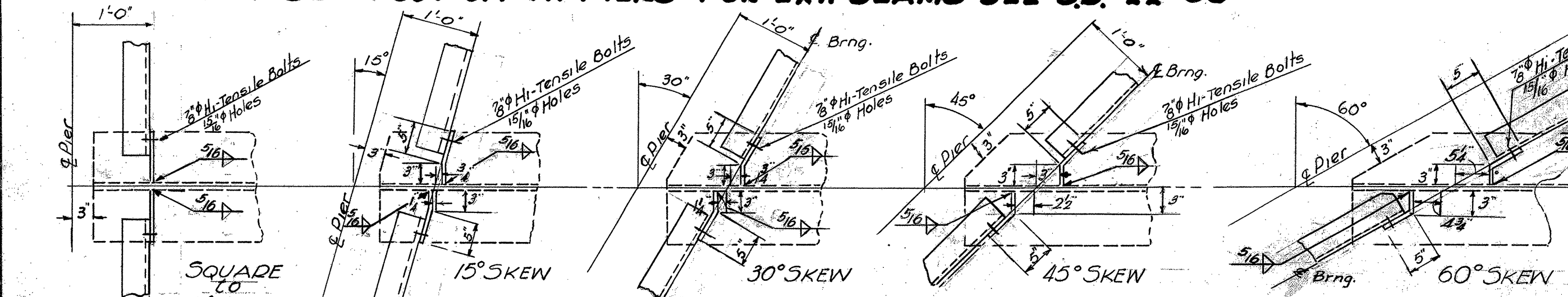


**ELEVATION**



**INT. WF BEAM CUT-OFF AT PIERS - FOR EXT. BEAMS SEE SB-22-60**



**GENERAL NOTES**

The final coat of field paint shall be green, unless otherwise directed by the Engineer. Quantities given in accompanying standards are for a single span, square bridge. These are net quantities.

For skewed bridges: transverse bars shall be furnished as for square spans; bars shall be cut in the field to fit skewed end and cut-off bars used at opposite end of span; the 55 bars shall be lengthened and the number of 56A and 57 bars increased; the 56P bars are to be used at piers only; increase the beam lengths as indicated on this sheet and S.B.-22-60; for variation in treatment of cut-off for interior and exterior beams see details on this sheet and Standard S.B.-22-60.

All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway & Bridge Construction, dated January 1956, and the A.A.S.H.O. specifications date 1961. Design is for 140-516-14 loading modified for National System of Interstate Highways, applied in accordance with the provisions of the A.A.S.H.O. Standard Specifications Article 1.2.8.

For location of fixed and expansion bearings, see the Contract Plans. In general the fixed end bearing device is on the down grade end of the span. For details of bearing devices, see standard S.B.-20-60, detail C.

Intermediate diaphragms shall be 15" x 33" for 30' beams and 18" x 42" for 33' and 36' beams. On skewed spans, the diaphragms shall be spaced at equal intervals between adjacent beams. For details of diaphragms see standard S.B.-20-60, detail F or G.

The welding of cover plates shall be done in such a manner that no internal stresses are introduced into the beam flanges. When a cover plate is wider than a beam flange, the weld is to be omitted one inch (1") either side of the intersection of the cover plate and the edge of the beam flange. All welds on cover plates shall be continuous fillets of size noted.

Scuppers are to be omitted over roadways and sidewalks under a bridge; place the scuppers a minimum of 2'-0" outside of shoulder or back of sidewalk, but not within 4'-0" of face of Abutment or Pier. On Super-elevated bridges, scuppers are placed on the low side only. Payment for scuppers shall be under item #401-Steel.

All exposed edges of concrete shall be chamfered 1" x 1" unless otherwise indicated on the plans.

All construction joints to be made as indicated on standard S.B.-20-60, details H & K unless otherwise noted. Details of shear connectors shall be submitted to the State for approval. Either channel or stud connectors may be substituted for the designed spiral steel. The studs shall be substituted on the basis of two (2) 3/4" studs for each pitch of a 3/8" spiral, or on the basis of two (2) 3/8" studs to 1 1/2" times the pitch of a 3/8" spiral.

Abutments (fixed end) use 2" expansion material. Abutments (expansion end) 4" piers; for temperatures less than 60°F, use 1" thick expansion material, & for temperatures over 60°F, use 1/2" thick expansion material. Expansion material to be as noted on this sheet or as indicated on SB-20-60.

After the superstructure steel has been erected, beam profiles shall be taken under the direction of the engineer to determine the final grade.

Unless otherwise called for, beams shall be cambered to the minimum camber likely to remain permanent as indicated in the AISC Handbook. The camber shall approximate a simple regular curve from end to end of beam. Tolerances in camber shall be as indicated in the AISC Handbook.

All Structural Steel shall meet ASTM Designation: A 36-60 T unless specified otherwise.

Revisions & Corrections  
Corrected for latest details April 1962

Drawn By: H.W.S. June 1960  
Traced By: H.W.S. June 1960  
Checked By: R.T.B. & R.S.H. June 1960  
Correct: 13 July 1960  
Smborn  
Bridge Engineer  
Approved: 13 July 1960  
A. O. Sullivan  
Chief Engineer

**DETAILS OF WF BEAM BRIDGES**  
34' TO 44' NON COMPOSITE ~ 49' TO 99' COMPOSITE

DEPARTMENT OF HIGHWAYS  
STANDARD STRUCTURES  
**SCB-D-60**

SOUTH BURLINGTON IM DECK (36)  
FOR REFERENCE ONLY - BRIDGE 68  
SHEET 71 OF 75