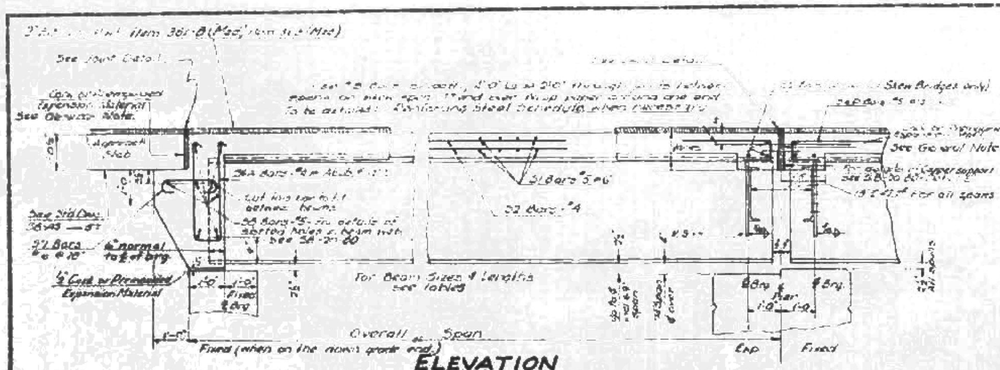
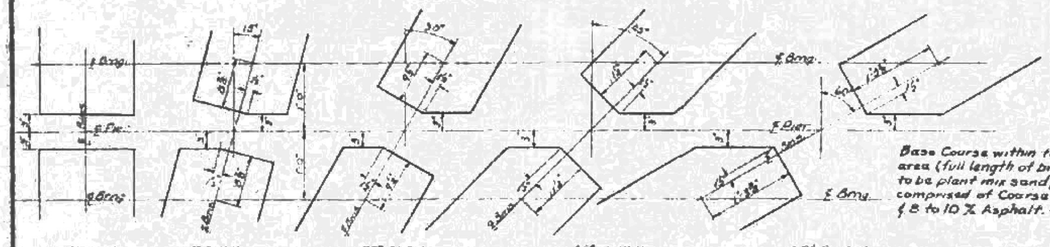
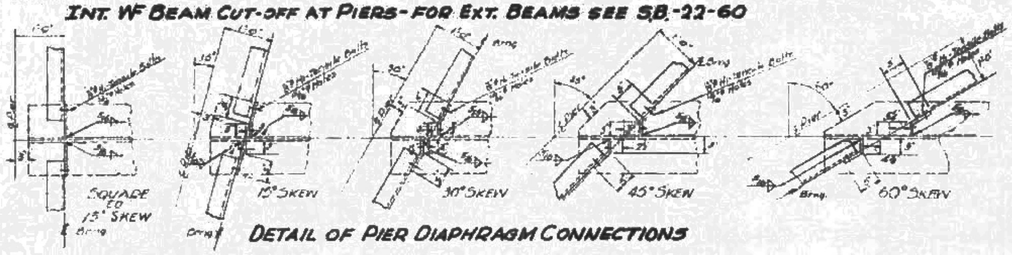


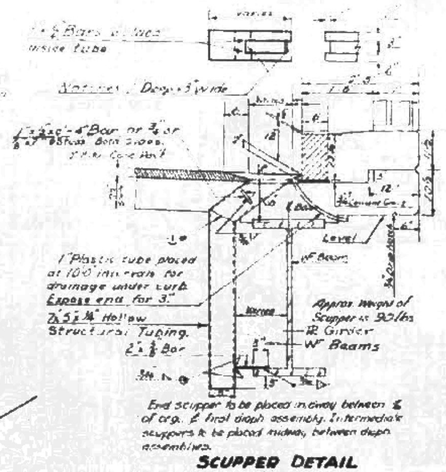
ELEVATION



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

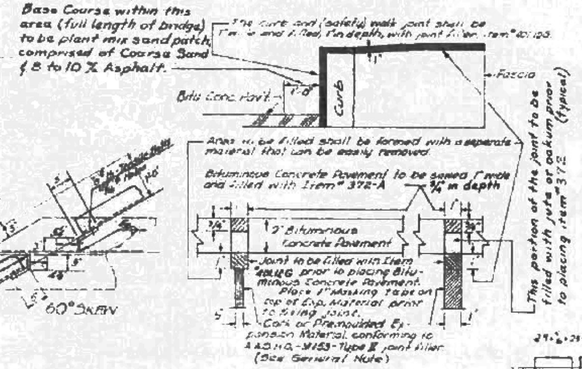


DETAIL OF PIER DIAPHRAGM CONNECTIONS

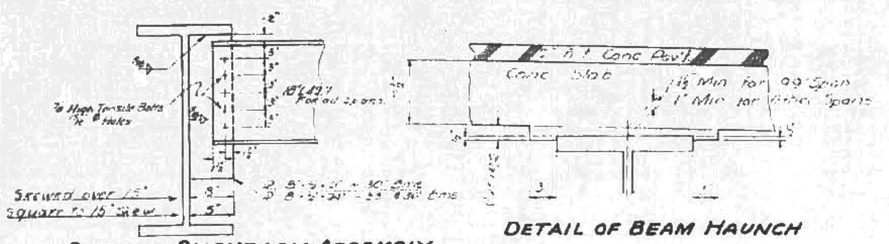


End scupper to be placed in alley between ℄ of crg. & first diaph assembly. Intermediate scuppers to be placed midway between diaph assemblies.

SCUPPER DETAIL

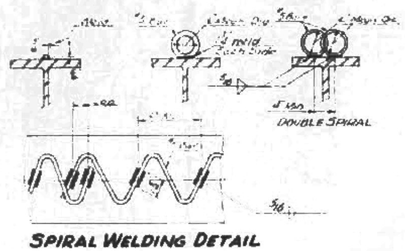


JOINT DETAIL

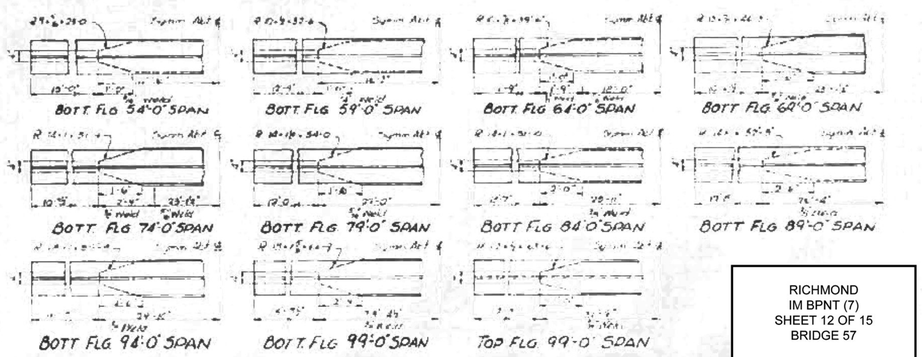


DETAIL OF DIAPHRAGM ASSEMBLY AT PIERS

DETAIL OF BEAM HAUNCH



SPIRAL WELDING DETAIL



GENERAL NOTES

[illegible]

For indirect [illegible] beam shall be [illegible] and end and curb bars used at specific end of span. [illegible] increased, the still [illegible] be used at [illegible] for [illegible] 50 [illegible] for variance in location of [illegible] and expansion [illegible] All materials and construction [illegible] Highway Bridge Construction dated January 1956, and the AASHO [illegible] 1961 [illegible] 2 [illegible] 3 [illegible] Standard Specifications Article 1.3.8.

For location of fixed and expansion bearings see the Contract Plans. [illegible] the fixed end of the span. For details of bearings [illegible] see Standard S.B. 20-60 [illegible] Intermediate diaphragms shall be 15 L 33.9# for 30' beams and 18 L 42.7# for 35' beams [illegible] spaced at equal intervals between adjacent beams. For details of diaphragms see Std. S.B. 20-60 [illegible]

The welding of cover plates shall be [illegible] of the cover plate and the edge of the beam flange. All welds on cover plates [illegible] notes.

Scuppers are to be [illegible] over roadway and sidewalk under a bridge, place the scuppers [illegible] outside of shoulder or back of sidewalk, but not within 3'-0" of face of Abutment or Pier. On Slipers [illegible] bridge scuppers are placed on the low side only. Payment for scuppers shall be under Item 424 Sheet.

All exposed edges of concrete shall be chamfered 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 shear. If a stud shall be substituted on the basis of two (2) ⅝" studs for each pitch of a ⅝" spiral, or on the basis of two (2) ⅝" studs for 1½ times the pitch of a ⅝" spiral.

Abutments (Fixed end) use ½ expansion material. Abutments (expansion end) ½ pieces for temperatures less than 60°F, use 1" thick expansion material, ½ for temperatures over 60°F use ½ inch 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 A36-60T unless specified otherwise.

RICHMOND
IM BPNT (7)
SHEET 12 OF 15
BRIDGE 57

FOR REFERENCE ONLY

Corrected for latest details Apr 1962

Checked By [illegible] June 1960
Checked By [illegible] June 1960
Submitted By R.T.G. & R.S.B. June 1960

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

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SCB-D-60