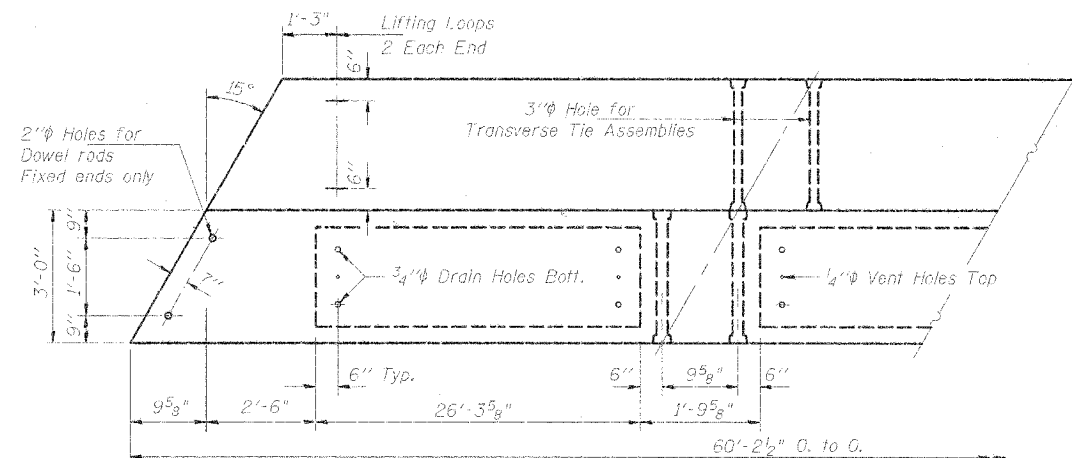
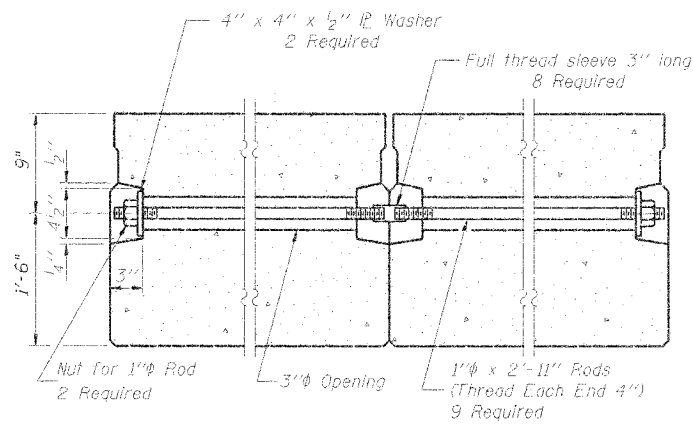


FABRIC BEARING PAD

FABRIC BEARING PAD



Technical drawing showing a cross-section of a beam-to-column connection. The drawing includes the following labels and dimensions:

- Abutment**: Indicated by a vertical line at the top of the column.
- Dowel Rod**: Labeled as $\frac{3}{4}" \phi \times 1'-6"$ Dwl. Rod (2 ea. bm.).
- Beam**: The horizontal member being connected.
- Column**: The vertical member being connected.
- Reinforcement**: Labeled as $1-9" \times \frac{1}{2}"$ Fabric Brg. Pad.
- Dimensions**:
 - $7"$: Vertical dimension from the top of the beam to the center of the dowel rod.
 - $\frac{1}{2}"$ P.J.F. Full Width: Dimension for the full width of the beam.
 - $1\frac{1}{4}" \phi$ Typ.: Dimension for the typical width of the column.
 - $2'-6"$: Overall horizontal dimension of the connection.

Omit key on exterior face of outside beams.

2x3-#5 B Bars
Full length of beam

4-#5 B₁ bars
Each End

#3 A bars at ±4'-0" cts.
Each End

2-#3 A bars evenly spaced
between A₁ bars between
end blocks (2'-8" long)

2x4-#4 B₂ bars
Full Length
of Beam #3 U bars
at 14" cts.

#4 A₁ bars
at 14" cts.

Standard Grid Pattern

3/4" Chamfer

TYPICAL SECTION

13-1/2" Ø Strands Each Strand Stressed to 28,900 Lbs.
9-Strands 1 3/4" up, 4-Strands 3 1/4" up.

Note: Place strands
symmetrically about
C of beam.

Type S-1 Bridge Rail
 13'-6" + overrun
 @ Roadway C/R Elev 100.33
 Slope $\frac{1}{4}$ " per ft.
 Total Drop = 3"
 3'-0" Level
 P.G.L.
 Grouted Key
 2'-5"
 Exterior Brg. Pad (Typ.)
 Interior Brg. Pad (Typ.)
 9-Precast Prestressed Concrete Deck Beams of 3'-0" each = 27'-0" + overrun

Bar	No.	Size	Length	Shape
A	96	#3	2'-8"	—
A ₁	55	#4	6'-1"	⌋
B	6	#5	21'-8"	—
B ₁	8	#5	12'-1"	—
B ₂	8	#4	16'-8"	—
D	4	#4	4'-3"	⌋
U	47	#3	6'-3"	⌋
U ₁	8	#4	6'-3"	⌋
Precast Prestressed Conc. Deck Bms.			Sq. Ft.	1626*

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be $\frac{3}{4}$ " diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3- $\frac{1}{2}$ "-270 ksi strands, as shown.

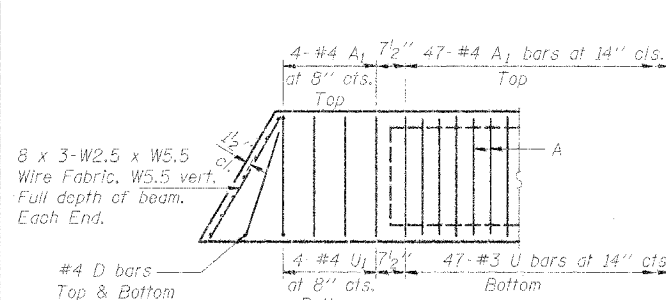
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

Required Release Strength, f'_{cr} , shall be 4000 p.s.i.



Technical drawing of a bent plate. The drawing shows a cross-section of a plate with a central vertical section and two side flanges. The central section has a total height of 18 inches, with a 4-inch section at the top and a 14-inch section below. The top 4-inch section is bent into a 3-inch radius arc, labeled "3'' Radius (Cold bent)". The angle of the bend is labeled "45° min. angle of lift". The top of the bent section is labeled "Top of Beam". The two side flanges are each 6 inches wide. The drawing is labeled "Fig. 10" in the bottom right corner.

Diagram illustrating the dimensions and components of a cable clamp assembly:

- Top of Beam:** Indicated by a horizontal line.
- Forming Loop:** The main loop structure.
- Cable Clamp:** The component at the bottom.
- Dimensions:**
 - Overall height: 18" min.
 - Height from top of beam to cable clamp: 14" min.
 - Width of the top section: 3" and 4" (indicated by two different horizontal segments).
 - Angle of lift: 45° min.
 - Radius of the bottom loop: 3" R.
 - Width of the base: 4" min.

DSGN	R.T. Mumm							
DR	R.T. Mumm							
CHK	K.E. Brendau							
APVD	K.E. Brendau	NO.	DATE		REVISION		BY	APVD

Frauenhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court Champaign, IL 61822 217-351-6268

JAMAICA ROAD DISTRICT
SECTION 00-09115-00-BR
VERMILION COUNTY

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