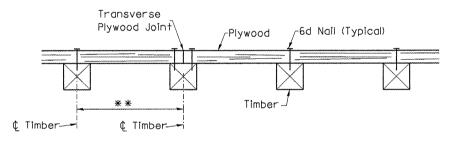
1-6d Nail per timber (Typical each end) 3" Min. (Typical) Varies ___ C Existing Beam ____C Existing Beam Timber-

PROTECTIVE SHIELDING (PERMANENT)



* * See Table for Typical Spacing

SECTION A-A

TIMBER SPACING

Timber Sizes (in.)					
Beam Spacing (ft.)	Fv = 135 psi	4" x 6" with min. Fb = 775 psi Fv = 135 psi m Timber Spac	Fv = 125 psi		
4.5	16	16	16		
4.75	16	16	16		
5.0	16	16	16		
5.25	16	16	16		
5.5	16	16	16		
5.75	16	16	16		
6.0	16	16	16		
6.25	12	16	16		
6,5	12	16	16		
6.75	12	16	16		
7.0	8	16	16		
7.25	8	16	16		
7.5	8	16	16		
7.75	8	16	16		
8.0	8	12	16		
8.25	8	12	16		
8.5	6	12	12		
8.75	6	12	12		
9.0	6	8	12		

See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.

Plywood shall be $\frac{5}{6}$ " exterior, by APA, type plywood. Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When $4" \times 6"$ timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical. All timber shall be treated. Design Load = 200 psf.

١	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROTECTIVE SHIELDING (PERMANENT) STRUCTURE NO. 041-0055 SHEET NO. __ OF __ SHEETS | STA. ____

SECTION COUNTY D9 CM BRIDGE REPAIR 2011-2 JEFFERSON 24 22 •F.A.S. 2869 & F.A.I. 57 CONTRACT NO. 78233

| DATE = 12/22/2818 | NAME = c1/pw.work\p | SCALE = 25/818 '*'

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