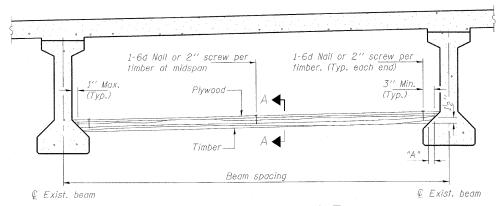
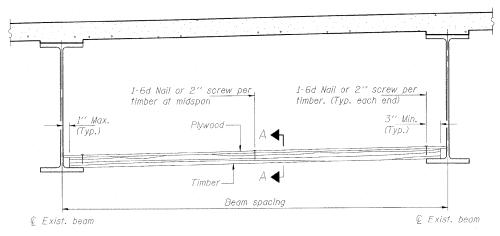
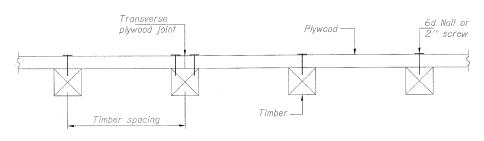
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



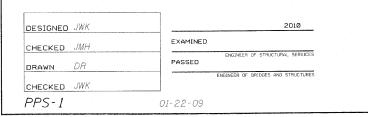
PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A



TIMBER SPACING

	Timber Sizes (in.)						
Beam Spacing (ft.)		4" x 6" with min. Fb=775 psi Fv=135 psi	Fv=125 psi				
	Maximui	m Timber Spac					
4.5	16	16	16				
4.Z5	16	16	16				
_ <u>5.0</u>	16	16	16				
5.25	16	16	16				
_ <u>5.5</u>	16	16	16				
<u>5,75</u>	16	16	16				
_6.0	16	16	16				
6.25	12	16	16				
_6.5	12	16	<i>16</i> ·				
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				
_ <u>8,5</u>	6	12	12				
<u>8,75</u>	6	12	12				
_9.0	6	8	12				

PPC I-BEAMS AND BULB-T's

BEAM	"A " .
36'' I-Beam	1/2"
42″ I-Beam	1/2"
48′′ I-Beam	1/2"
54″ I-Beam	158"
63'' Bulb-T	3 ³ 8′′
72'' Bulb-T	338"

Notes:

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.

All timber shall be treated. Plywood shall be ⁵g'' rated Exterior type plywood by APA.

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 $4^{\prime\prime}$ x $6^{\prime\prime}$ timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item			Unit		Total	
Protective	Shield	(Permanent)	Sq.	Yd.	1238	

PERMANENT PROTECTIVE SHIELD STRUCTURE NO. 016-2124

SHEET NO. S6	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OF	2729	729 1617-I-1		соок	13	10
S6 SHEETS				CONTRACT	NO. 60	J69
	ILLINOIS FED. AID PROJECT					