



**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:  
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	B	C	D
IS0991080L132.2	379+00	5 15/16"	3'-4 1/2"	5'-3"	9'-1 1/2"
IS0161057R340.4	150+50	6 15/16"	3'-1 1/2"	5'-3"	8'-10 1/2"
IS0221055R270.7	784+00	5 7/16"	2'-4 1/2"	5'-3"	8'-1 1/2"
IS0221055L274.8	1000+40				
IS0221055L274.9	1006+60	6 15/16"	2'-9"	7'-0"	10'-3"
IS0161055L276.5	1098+50	6 5/16"	4'-6"	5'-3"	12'-0"
IS0221055R274.6	625+00	6 7/16"	3'-7 1/2"	5'-3"	9'-4 1/2"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- R 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10

I-20-11

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Various	D-1 OVD SIN STR REPL 12-02	VARIOUS	39	19
			CONTRACT NO. 46175	
ILLINOIS FED. AID PROJECT				