



**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 3/8" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" 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	(6) B	C	(6) D
97	2S081080R003.2	201-75	7'-5' 7/2"	5'-3"	11'-4 1/2"
100	2S081080L003.8	234-25	7'-4' 7/2"	5'-3"	10'-4 1/2"
131	2S0981088L036.4	2217-20	7'-6"	3'-10 1/2"	5'-3"
135	2S0811280R010.8	91-75	7'-6"	4'-1 1/2"	9'-10 1/2"
46	2S081000L000.1	215-70	7'-6"	2'-7 1/2"	5'-3"

- 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.)
- 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

1-20-11

FILE NAME =	USER NAME = lmkdj	DESIGNED -	REVISD -
D:\BR\SIGN TRUSS\CADD Plans\2011-2\os-a-10\PLANeng.dgn		DRAWN -	REVISD -
PLOT SCALE = 100.0000 / IN.		CHECKED -	REVISD -
PLOT DATE = Tue Apr 12 07:35:59 2011		DATE -	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
var D-2 OVD SIN STR REPL 12-03	VARIOUS	VARIOUS	28	12
CONTRACT NO. 46176			ILLINOIS FED. AID PROJECT	