

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. per bar, a depth of 11/2", spaced on 13/6" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

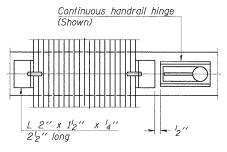
SCALE:

Structure Number	Station	А	⑥ <sub>B</sub>	С	6 D
1S099I080R013 <b>.</b> 0	570+00 EB I80	712"	1'-2"	7′-0"	8′-8"
1S099I080L020.9	1010+00 WB 180	71/2"	1'-2"	7'-0"	8′-8"
1S099I080R022.2	1080+00 EB 180	7½"	1'-2"	7′-0"	8′-8"
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- (2) 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.
- $\bigcirc$  If Handrail Joint present, weld angle to WF(A-N)4 and  $^{l}_{4}$ " extension bars. (See Sheet S-9.)
- (4)  $\int_{B}^{\infty} \int_{B}^{\infty} x \int_{2}^{\infty} x \ 2^{\prime\prime\prime}$  welded to handrail posts to protect locations that contact grating.
- (5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- (6) Based on actual height of tallest sign given on S-1.

	Grating width plus 'g'' W	Drill (1) 3 <sub>8</sub> " \$\phi\$ holes in walkway for 5 <sub>16</sub> " \$\phi\$ stainless steel bolts, 1" long, each with one stainless steel locknut and two stainless steel flat washers.
78′′		<u> </u>
-		
	<i>f</i>	L 2" x 1½" x ¼"
		2½" long at continuous grating,
	/	6" long at grating splices.
	3 sides	
	3 <sub>16</sub> typ. (3)	,
	<u>DETAIL W</u>	' -

(Walkway grating)



(AT WALKWAY GRATING SPLICE)

and grating

splice

(CONTINUOUS WALKWAY GRATING) SECTION W-W

CHRISTOPHER B. BURKE ENGINEERING LTD 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500

	USER NAME = PRAZALAN	DESIGNED	-	JMB .	REVISED	-
١.		DRAWN	-	PDR	REVISED	-
	PLOT SCALE = 1'	CHECKED	-	MM	REVISED	-
	PLOT DATE = 12/23/2010	DATE	-	12/23/2010	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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F.A.I. 80 FOR NS RAILROAD TO US 45 OVERHEAD SIGN STRUCTURES							RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ALTER							D140	80	99 (5&5-1) Y-1	WILL		1880
ALTERI			MINOM		VAY DEI	AILS FOR	DIMIZ			CONTRACT	NO. 60	M59
	SHEET	NO.	0F	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT				
											S-8	OF S-11