

-@ Sign(s)(5)

Handrail Hinge

(See Detail E)

Walkway Grating

_____ W6x12

SECTION A-A

Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

5'-25

(See Detail D)

(See Detail D)

Top of parapet or

€ 34" ¢

Detail B

pads

4" x 4" x 5

plate washer

∕D**∢**ì

W10x22

D◀┘┘

sidewalk if no

parapet exists.

of

3 € 1" \$ H.S. bolts

in girder.

BM-2

through 1½″ ¢ holes

holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.

The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

> Light Fixture required)

514" 612"

(4) For attachment details of $3\frac{1}{2}$ " pipe and W10x22, see other sections as applicable.

Details for mounting to steel beam or girder & Details for mounting with existing parapet mounted rail Holes in new steel members may be drilled in the fabrication (5) Sign shall not extend more than 6" above top of bracket. shop or in the field. Field drill existing members.

Detail B

W10x22

E√

Detail A

 $C \blacktriangleleft_1$

 $C \blacktriangleleft J$

Top of parapet or

sidewalk if no parapet exists.

For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.

© 34" \$\phi\$ H.S. bolts, drill

beam web. (1)

of

- 3) For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6". min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

(4)

 $\exists E$

SECTION A-A

and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)

-€ Sign(s)(5)

Walkway Grating

5'-2'2'

(See Detail D.

Handrail Hinge (See Detail E)

Light Fixture

(If required)

For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures,

Structure Number	Station	h	i	j	k max. (10'-0'' max.)	l max. (8'-0'' max.)	m (15'-O'' max.)
3B032I080R111.4	14+45.40	11'-5"	2'-11 ⁵ 8"	2'-8 ⁵ 8"	3′-6"	1'-0"	10'-0"

BRIDGE MOUNT SIGN STRUCTURES WALKWAY AND CONNECTION DETAILS

	FILE NAME =	USER NAME = Jauche	DESIGNED -	REVISED -			DETAIL		F.A.I.	SECTION	COUNTY	TOTAL SHEET
	c:\pw_work\pwidot\jauche\d0249654\D366B	27-sht-details.DGN	DRAWN -	REVISED -	STATE OF ILLINOIS				80	(32-2) HBR-6	GRUNDY	98 76
		PLOT SCALE = 800.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXIS	EXISTING STEEL RAILING AND PROPOSED GUARDRAI		F		CONTRACT NO. 66B27	
		PLOT DATE = 8/13/2014	DATE -	REVISED -		SCALE.	SHEET NO 76 OF 98 SHEETS	STA TO STA	\vdash	THE INOIS SED AT		

For Details A & B, Sections C-C, D-D

For Details D & E, see Base Sheet BM-4.

and E-E, see Base Sheet BM-3,