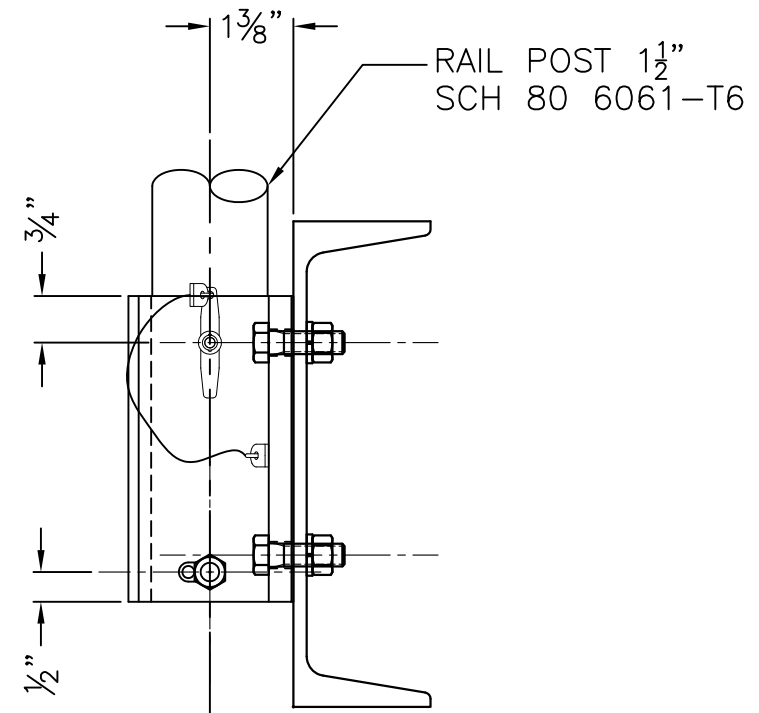
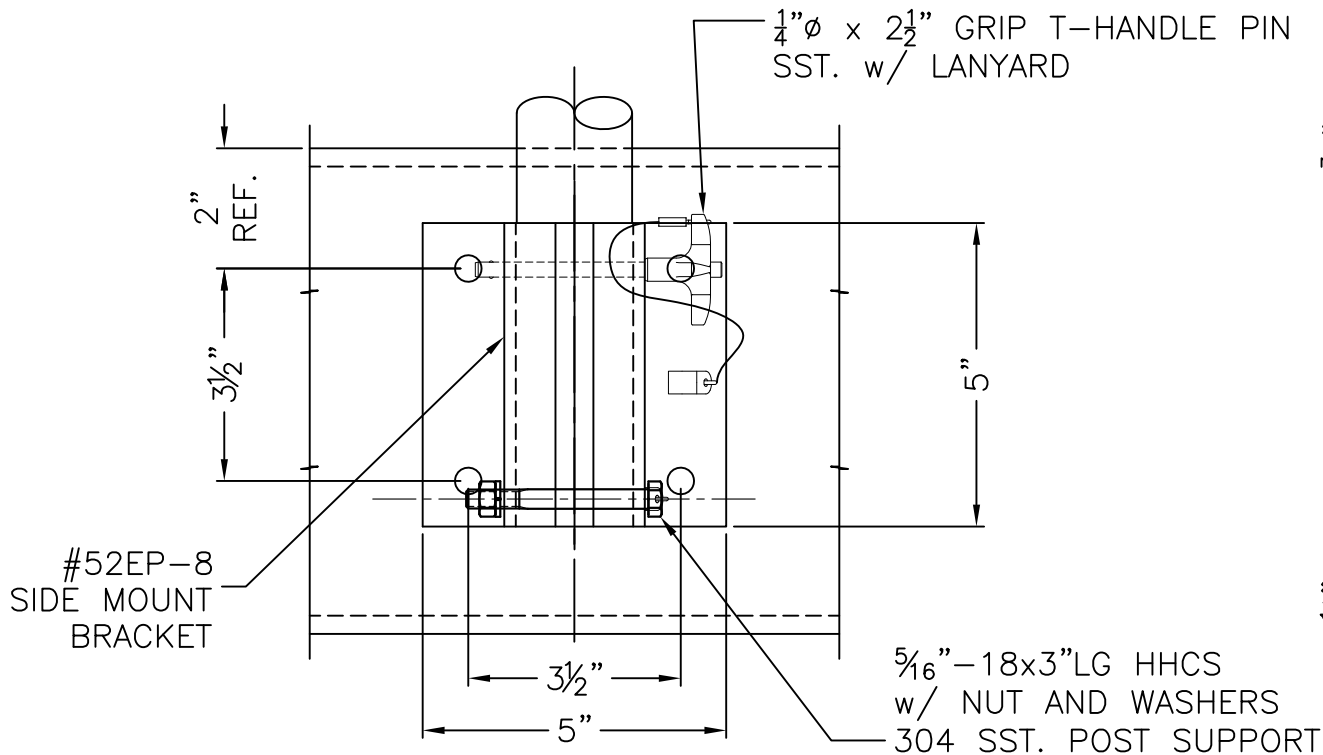
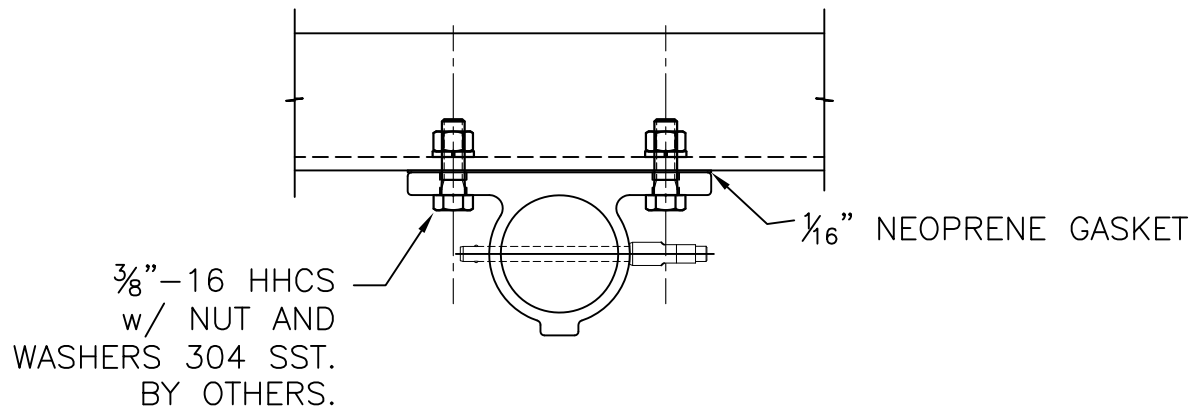


REMOVABLE GUARDRAIL SECTION AT SIDE OF CHANNEL

PART No. 52EP-8 ITEM No. 31919



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NO.	REVISIONS	DATE	APPROVED
0	RELEASED FOR APPROVAL	8-24-12	BW

Hollander
STRUCTURAL ENGINEERING GROUP
10285 WAYNE AVENUE
CINCINNATI, OH 45215-6399
PHONE: (800) 772-8800 FAX: (502) 772-8806
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PROJECT
VAB FOR CONSTELLATION

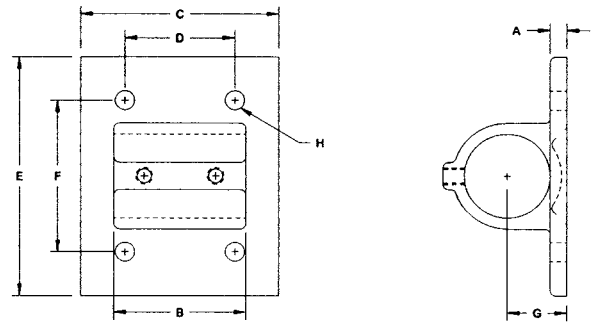
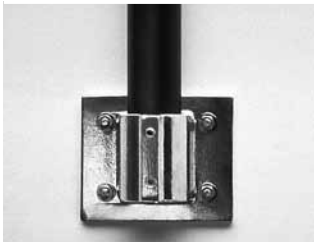
CUSTOMER

DESCRIPTION
INTERNA RAIL/SPEED RAIL
DETAIL
DRAWINGS
PART No. 52EP-8

DESIGN BY: GG	APPROVED BY: BW	DATE: 8-24-12
PROJECT NO:	ITEM NO: 31919	SIZE: FULL
See Notes	6736-D	1 of 1
See Notes		

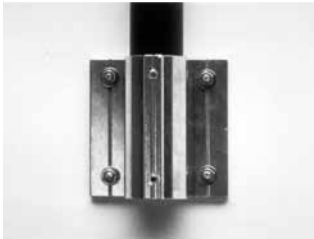


No. 52 Wall Flange

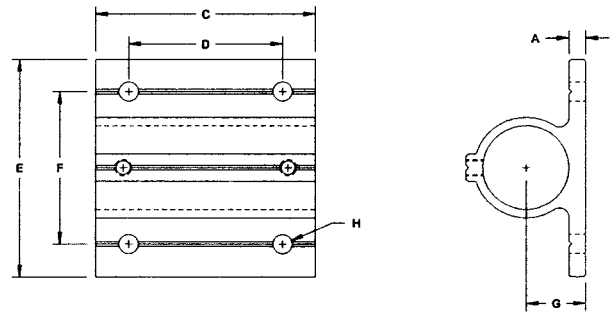


I.P.S. Size	Item Number	A	B	C	D	E	F	G	H	J
1-1/4"	27290	3/8"	3"	4"	2-1/2"	5-1/2"	4"	1-17/32"	7/16" Ø	-
1-1/2"	28290	3/8"	3"	4-1/2"	3"	5-1/2"	4"	1-11/32"	7/16" Ø	-

No. 52E Extruded Wall Flange (4-Hole)*

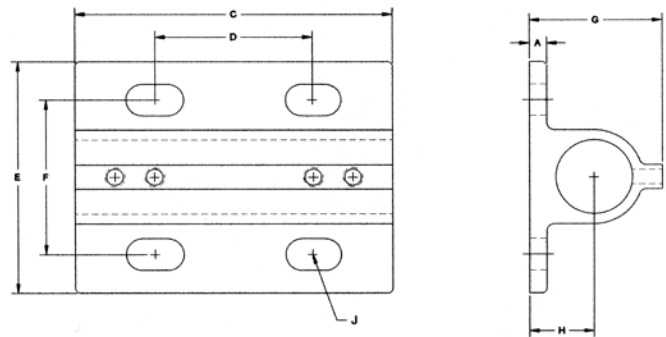


Also available with 2 mounting holes.
* Must be used with aluminum pipe.



I.P.S. Size	Item Number	A	B	C	D	E	F	G	H	J
1-1/4"	27300	3/8"	-	5"	3-1/2"	5"	3-1/2"	1-11/32"	7/16" Ø	-
1-1/2"	28300	3/8"	-	5"	3-1/2"	5"	3-1/2"	1-11/32"	7/16" Ø	-
2"	29300	7/16"	-	5"	3-1/2"	6"	4-1/2"	1-5/8"	7/16" Ø	-

No. 52HD Extra Heavy-Duty Wall Flange



I.P.S. Size	Item Number	A	B	C	D	E	F	G	H	J
1-1/2"	28580	7/16"	-	8"	4"	6"	4-1/2"	3-5/16"	1-5/8"	11/16" x 1-3/8"

Aluminum-Magnesium Alloy 535.0 Sand Castings

Chemical Composition and Physical Properties

Chemical Composition Limits per ASTM B 26-98

Si	Fe	Cu	Mn	Mg	Ti	Other	Al
0.15	0.15	0.05	0.10-0.25	6.2-7.5	0.01-0.25	0.15	Remainder

Typical Mechanical Properties

Temper	Ultimate Strength (ksi)	Yield Strength (ksi)	Elongation (% in 2 in.)	Shear Strength (ksi)	Compressive Yield Strength (ksi)	Brinell Hardness	Endurance Limit (ksi)
F	40	20	13	27.45	23.5	70	10
	(35 min.)	(18 min.)	(9 min.)			(70 min.)	ASTM B26-98

- Thermal Conductivity (@ 77F, SI units): 0.24 cal/cm*s*K
- Heat Treatment – Achieves its physical and mechanical properties as-cast (F). This eliminates the time and cost of heat treating.
- Machinability – Excellent machinability as-cast, excellent surface finish, and high dimensional stability.
- Corrosion Resistance – Highest of any cast alloy. It can be anodized for additional corrosion protection to a 0.7 mil thickness (215R1).
- Finishing – Produces an excellent surface finish by burnishing or polishing. Anodizes well to a clear-satin finish due to the minimal amount of silicon in the alloy.
- Weldability – It can be welded by any of the inert gas processes, T.I.G. or M.I.G., using filler rod of 5356 or 5183.