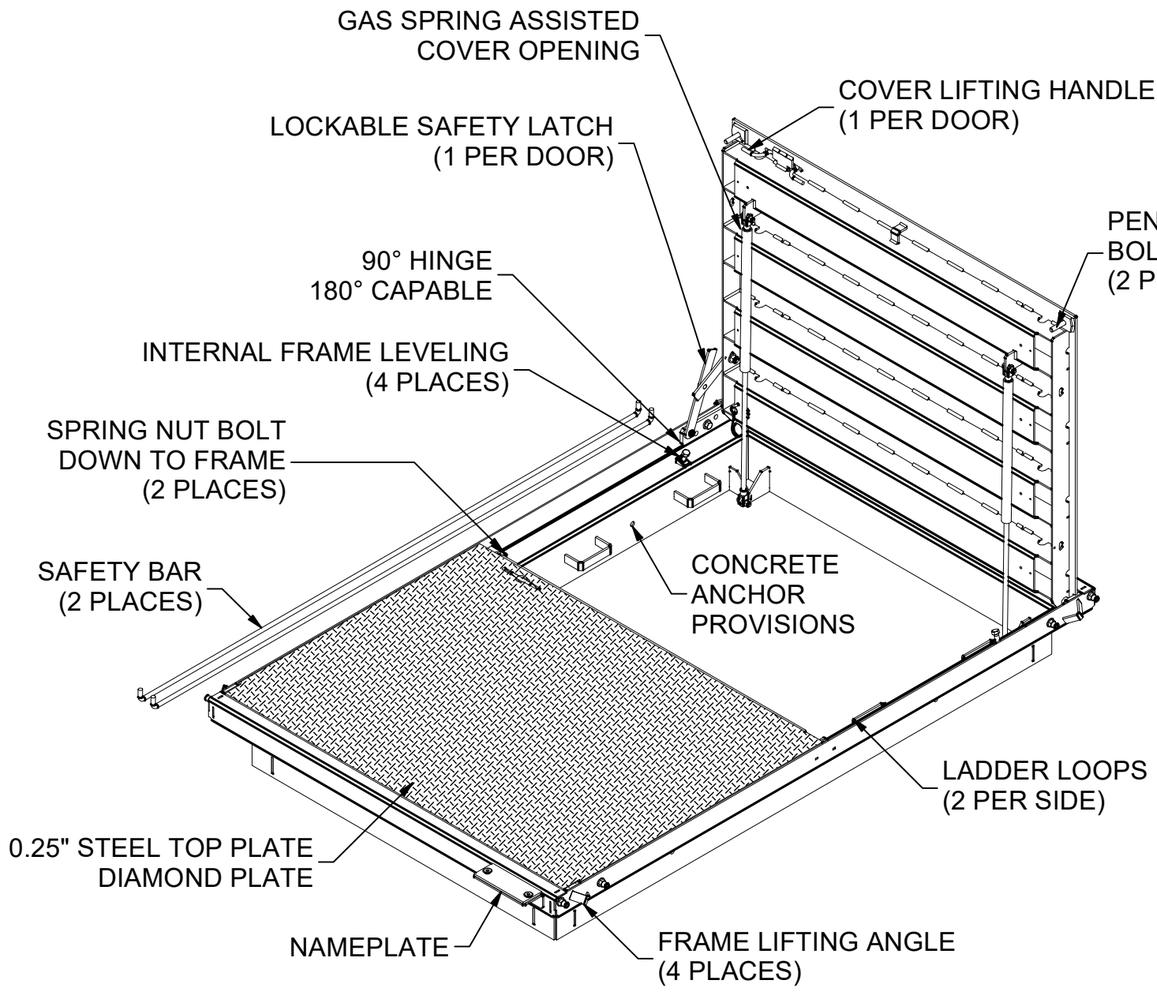
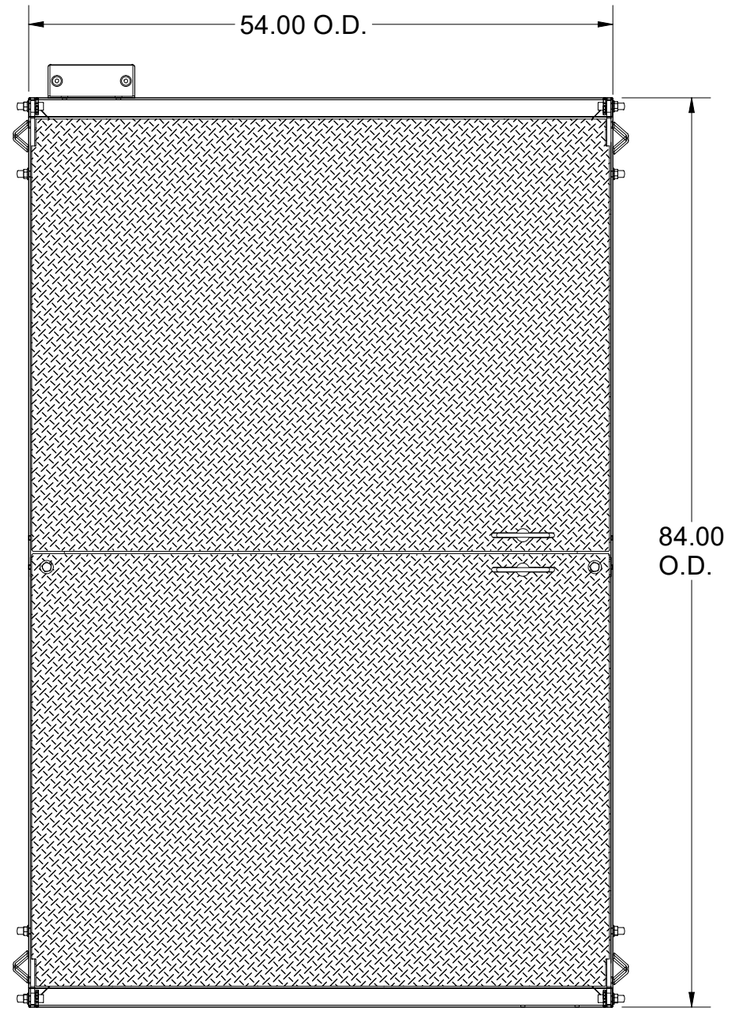
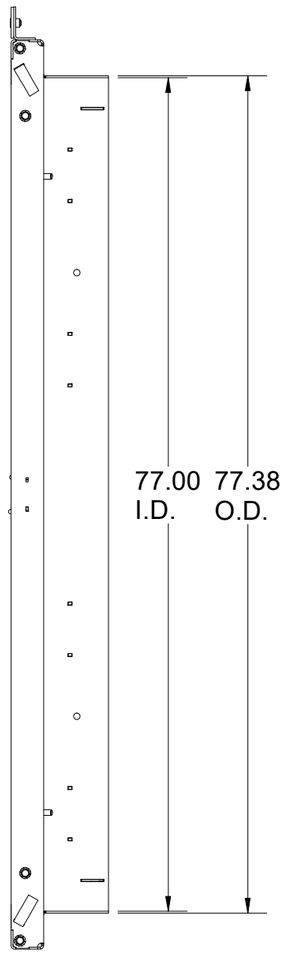
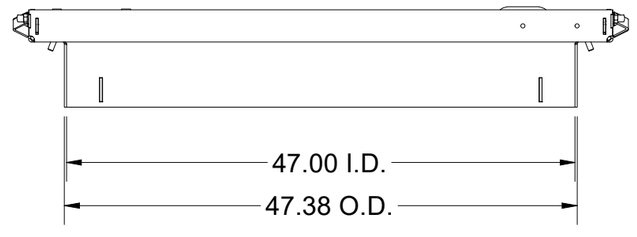








DESIGNED FOR ROBOT WELDING

LOADING CRITERIA: ASTM C1802 Load Level 04

16,000 lb load on 10" x 20" footprint, without impact restricted to parking spaces and areas within close proximity of roadways.

SURFACE:	Diamond Plate	FINISH:	Galvanized
WEIGHT:	806.38 lbs	MARKING:	None

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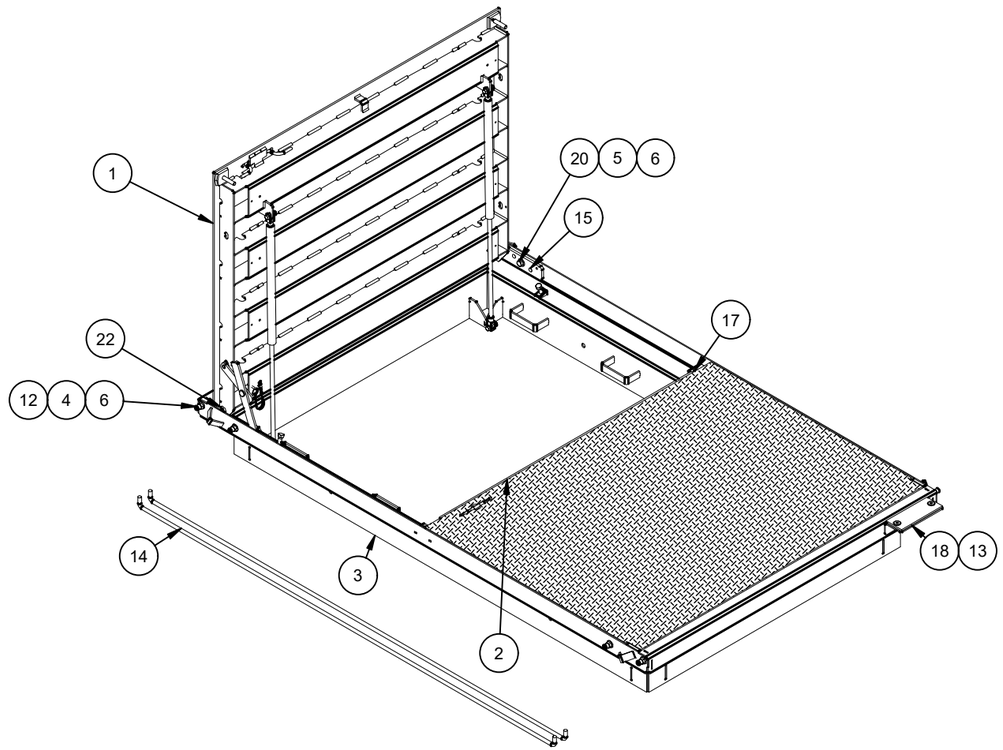
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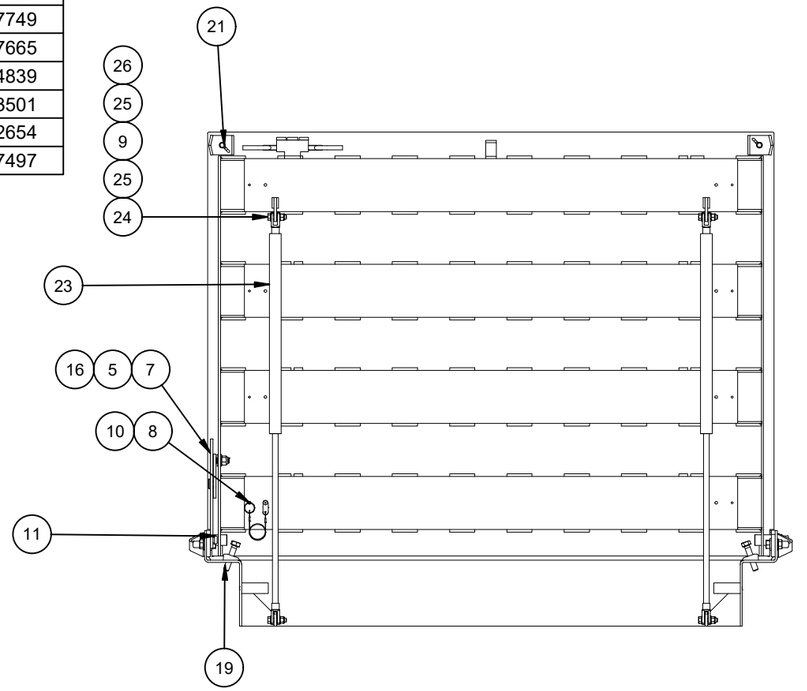
DESCRIPTION:	CAS2-4878-AH4-DP-G-BD-LL-LV-OH09 48x78 Standard Cover Assembly (ASTM C1802 Load Level 04, Steel, Hinged, Handle (1 Per Door), Diamond Plate, Galvanized, Ladder Loops, N/A) 09	REV:	E-3-2
PART NUMBER:	100002389	DRAWN BY:	R. Dohr
CREATED:	6/25/2021	MODIFIED:	2/24/2026
		SHEET:	1

100002389.idw

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	1	200054127	DAS2-T-4878-H4-DP-R-CL-LV	200054127
2	1	1	200054122	DAS2-B-4878-H4-DP-R-CL-LV	200054122
3	1	1	200054129	FAS-4878-AH4-R-LL-LV-OH09	200054129
4	8	8	100026256	LOW-STRENGTH STEEL FLANGE NUT, 1/2" - 13 THREAD SIZE	100026256
5	8	8	100011418	WASHER FLAT 1/2 NARROW ZINC	100011418
6	8	8	100007939	CAP VINYL .467 X 1/2	100007939
7	2	2	100007933	SAFETY LATCH ASSY FOR UNI AND 90 D HINGE	100007933
8	2	2	100007924	LANYARD 3/64 W/PIN COATED SS	100007924
9	8	8	100007913	GAS SPRING CLEVIS	100007913
10	2	2	100007882	Rivet Blind Grip .1875" Large Domed Head Range-0.376-0.5" Steel	100007882
11	2	2	100007876	Bolt Shoulder Socket Head - 3/8-16 UNC - SD-0.5" - SL-0.3125" - Grade 5 - Zinc	100007876
12	4	4	100007869	BOLT SHCS 1/2-13 X 1-3/4 SS	100007869
13	2	2	100007733	BOLT HEX SOCKET FLAT COUNTERSUNK HEAD 1/2-13 UNC 1 GR 5 ZINC-PLATED	100007733
14	2	2	100007696	SAFETY BAR CAS2-4878 HNG	100007696
15	2	2	100007666	Hinge Assembly, Right, Steel	100007666
16	2	2	100007492	HEX NUT NYLOCK - 1/2-13 UNC - GR5 - ZINC	100007492
17	2	2	100007441	STRUT FITTING SPRING NUT 1/2-13 UNC 1-5/8 CHANNEL REGULAR SPRING ZINC	100007441
18	1	1	100007391	NAME PLATE STEEL - BLANK	100007391
19	4	4	100005059	BOLT HEX 1/2-13 UNC 2.5 ZINC	100005059
20	4	4	100003823	Hex Bolt 1/2-13 UNC ZINC - PT - 1.5"	100003823
21	2	2	100007749	BOLT PENTA 1/2-13 UNC 0.875 HEAD 2.25L SS DRILLED	100007749
22	2	2	100007665	Hinge Assembly, Left, Steel	100007665
23	4	4	100014839	GAS SPRING 250 LBS FORCE 34.84IN	100014839
24	8	8	100003501	Hex Bolt 3/8-16 UNC ZINC - PT - 1.5"	100003501
25	16	16	100002654	WASHER FLAT 3/8 NARROW TYPE A SS A316 ZINC	100002654
26	8	8	100007497	HEX NUT NYLOCK - 3/8-16 UNC - 304SS	100007497





100002389.idw

REVISION HISTORY		
DESCRIPTION	DATE	REVISED BY
54609-1: CLEANED UP FRAME, DOORS AND ASSEMBLY. SWITCHED TO FOUR 250 LB GAS SPRINGS. RAN CALCS AND UPDATED STIFFENERS/BEARING BARS/WELDS.	6/03/2025	COLLIN HEYWOOD
REVISED STIFFENERS TO MATCH OTHER ROBOT DOORS	11/20/2025	R. DOHR
ADDED (4) 5/8" HOLES IN FRAME FOR CONCRETE ANCHORS, CORRECTED SIDE BAR MATERIAL	2/24/2026	M. Newman

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100002389 CAS2-4878-AH4-DP-G-BD-LL-LV-OH09

REV: E-3-2

WEIGHT: 806.38 Lbs

DRAWN BY: R. Dohr

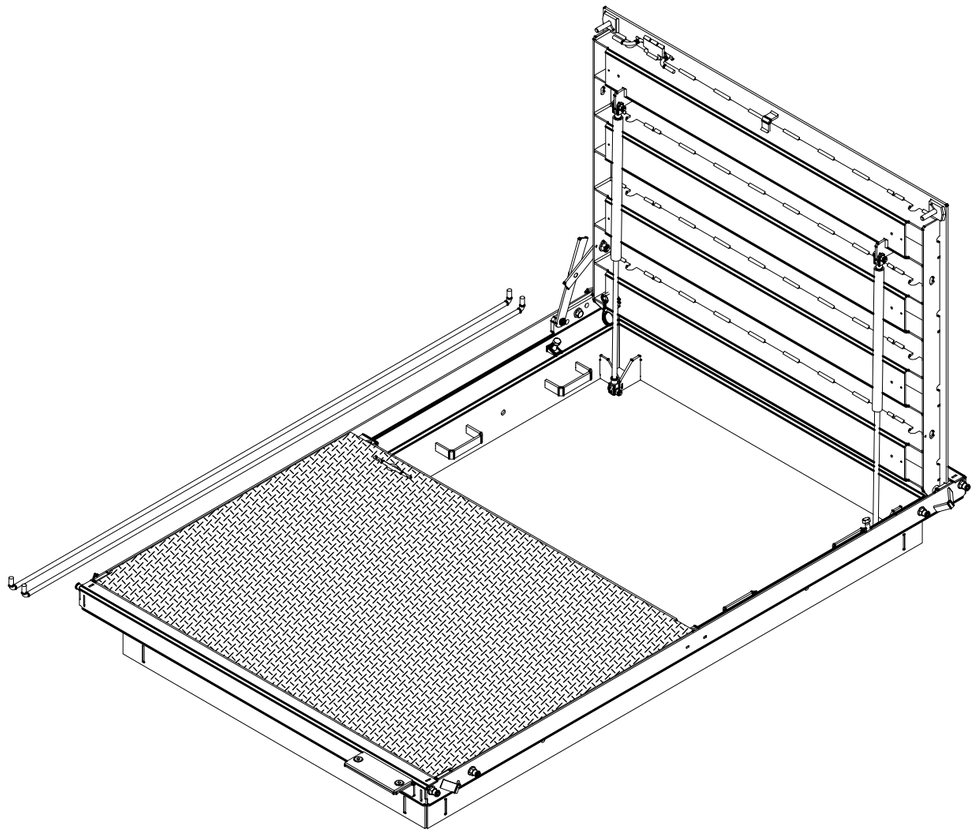
CREATED: 6/25/2021

MODIFIED: 2/24/2026

SHEET: 2

BURN LIST - BOM

PART NAME	ITEM QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	MATERIAL	MASS	SHEET
200054123	8	100007821	Door Component Steel Channel	100007821	SHT STL GR80 SM-HRPO RAW .1875	27.217 lbmass	07
200054125	4	100007821	Door Component Steel Side Bar	100007821	SHT STL GR80 SM-HRPO RAW .1875	4.847 lbmass	08
200054126	1	100007736	Door Component Steel Plate, Bottom	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	166.426 lbmass	09
200054128	1	100007736	Door Component Steel Plate, Top	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	166.234 lbmass	10
200054130	2	100007734	Frame Component Steel Frame End, Adjustable Clevis Mount	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	35.988 lbmass	11
200054131	2	100007734	Frame Component Steel Frame Side, Adjustable Clevis Mount,Ladder Loops	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	50.917 lbmass	12
200057113	4	100007735	CUSTOM GAS SPRING DOOR MOUNT	100007735	STL ASTM A36 SM-HRPO RAW .250	0.385 lbmass	13
200087252	1	100007735	Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset	100007735	STL ASTM A36 SM-HRPO RAW .250	6.293 lbmass	14



100002389.idw

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100002389 CAS2-4878-AH4-DP-G-BD-LL-LV-OH09

REV: E-3-2

WEIGHT: 806.38 Lbs

DRAWN BY: R. Dohr

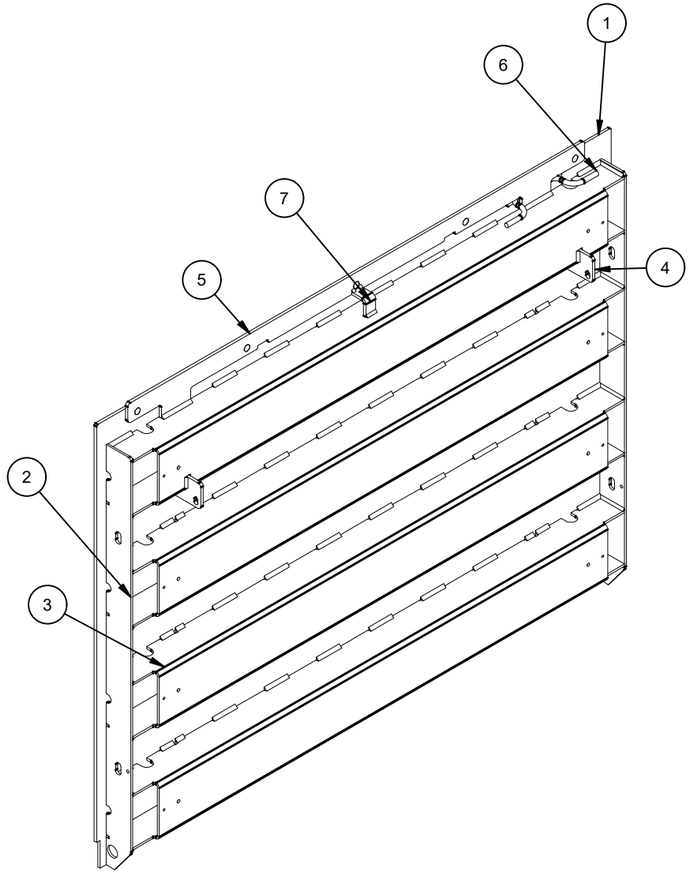
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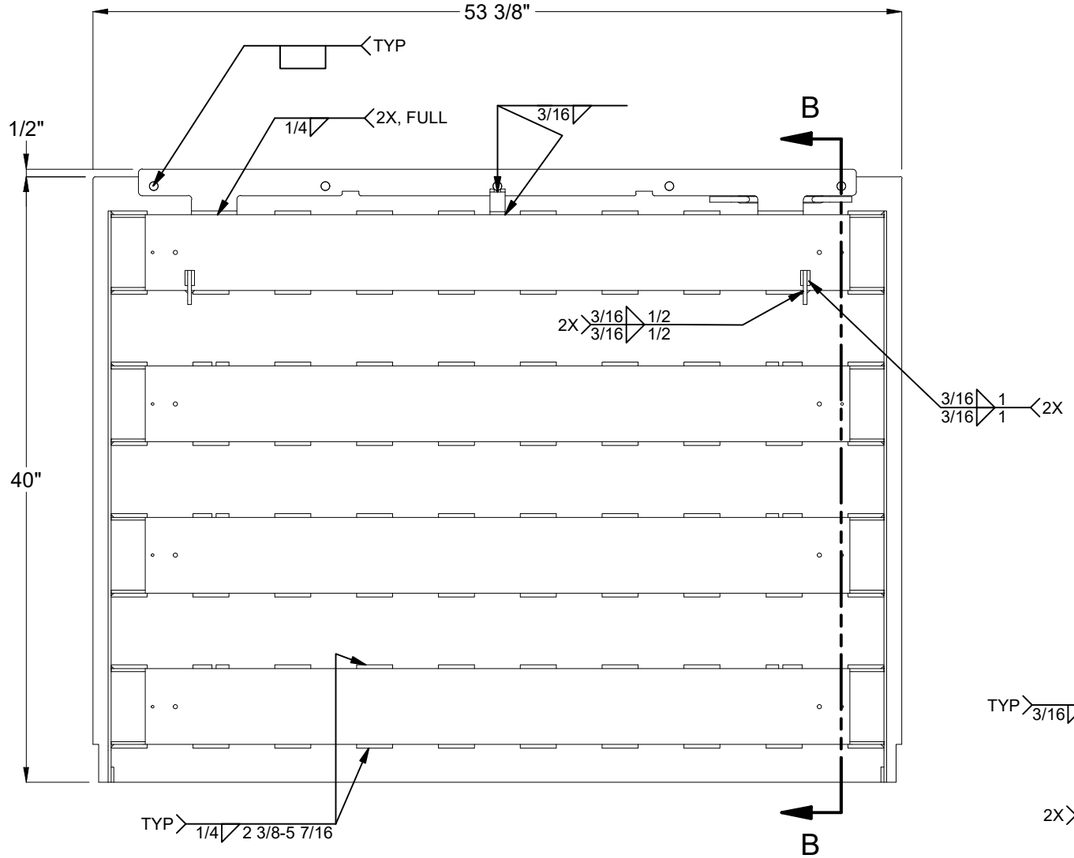
MODIFIED: 2/24/2026

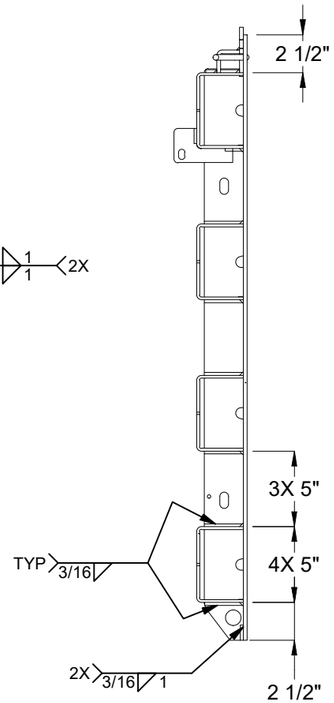
SHEET: 3

BILL OF MATERIALS

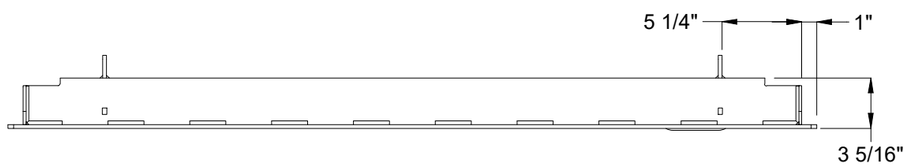
ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	166.426 lbmass	166.426 lbmass	100007736	Door Component Steel Plate, Bottom	200054126
2	4.847 lbmass	9.695 lbmass	100007821	Door Component Steel Side Bar	200054125
3	27.217 lbmass	108.868 lbmass	100007821	Door Component Steel Channel	200054123
4	0.382 lbmass	0.764 lbmass	100007735	CUSTOM GAS SPRING DOOR MOUNT	200057113
5	6.293 lbmass	6.293 lbmass	100007735	Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset	200087252
6	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
7	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647







SECTION B-B



MATERIAL FINISH: Raw	Infrastructure JENSEN 527 Dunn Circle, Sparks, NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2026 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Infrastructure , any use of Jensen Infrastructure work product without express, written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action. This product shall only be produced in a Jensen Infrastructure facility.	PART NUMBER & DESCRIPTION: 200054122 DAS2-B-4878-H4-DP-R-CL-LV
MATERIAL SURFACE: Diamond Plate			WEIGHT: 294.33 Lbs DRAWN BY: R. Dohr CREATED: 6/25/2021 MODIFIED: 2/24/2026

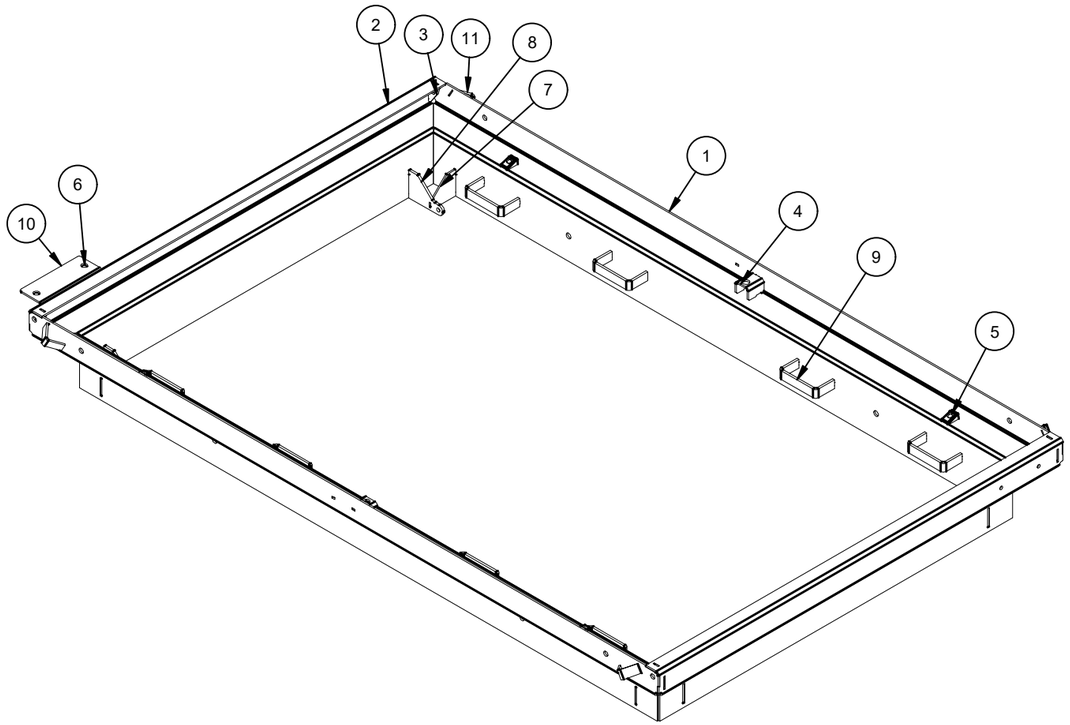
REV: E-3-2

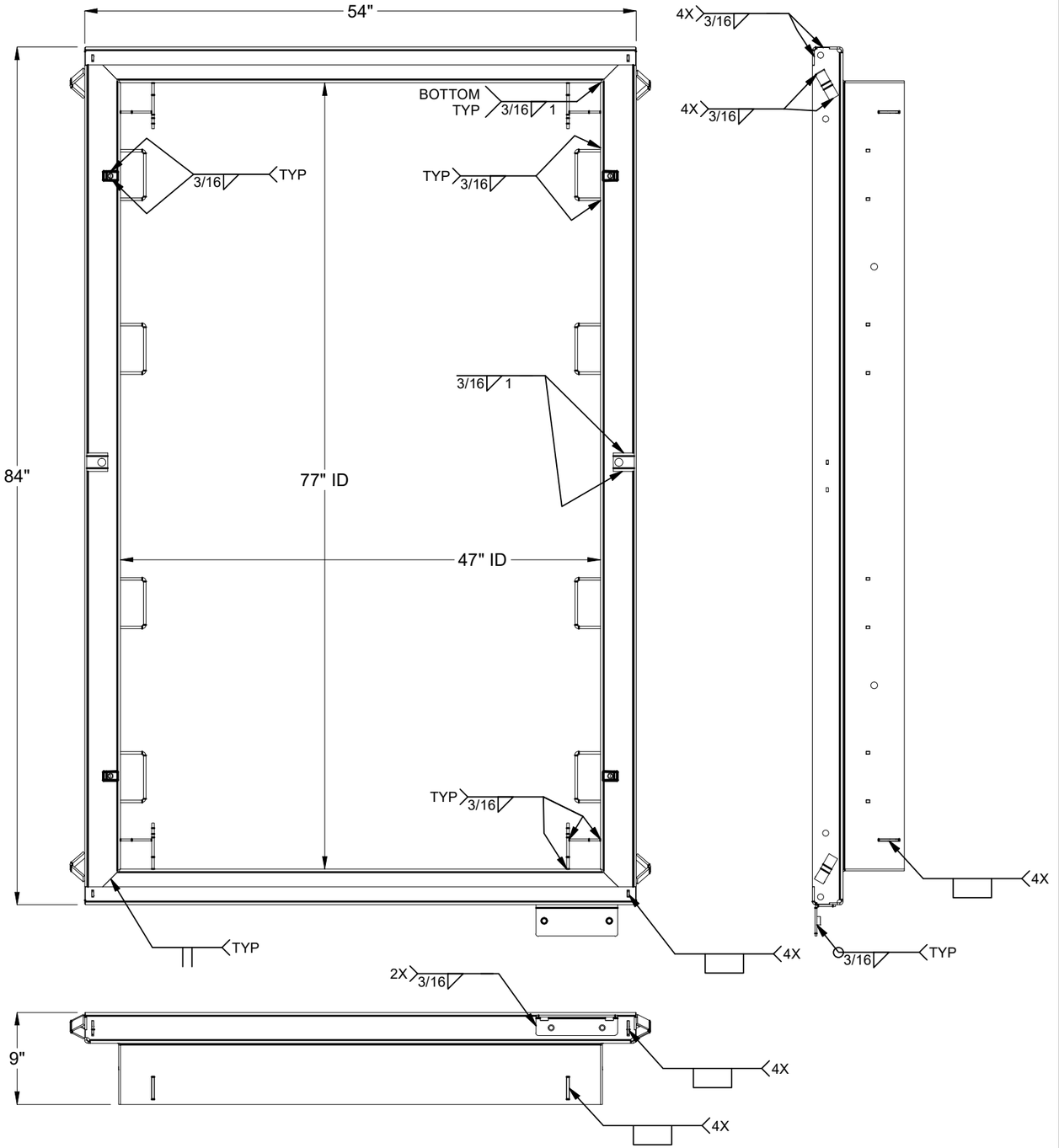
SHEET: 4

100002389.idw

BILL OF MATERIALS

ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	50.949 lbmass	101.899 lbmass	100007734	Frame Component Steel Frame Side, Adjustable Clevis Mount,Ladder Loops	200054131
2	35.988 lbmass	71.977 lbmass	100007734	Frame Component Steel Frame End, Adjustable Clevis Mount	200054130
3	1	4	200018691	FRAME BOLT DOUBLER SLOT	200018691
4	1	2	100024179	SPRING NUT BRACKET	100024179
5	1	4	100007863	NUT LEVELER 1/2-13 WELDABLE CAST STEEL	100007863
6	1	2	100007728	NUT SELF-CLINCH 1/2-13 S-0813-1 RAW	100007728
7	1	4	100007688	STIFFENER CLEVIS	100007688
8	1	4	100007686	CLEVIS MOUNT	100007686
9	1	8	100007683	LADDER LOOP	100007683
10	1	1	100007667	NAME PLATE FRAME ANGLE	100007667
11	1	4	100007641	FRAME LIFTING BRACKET	100007641





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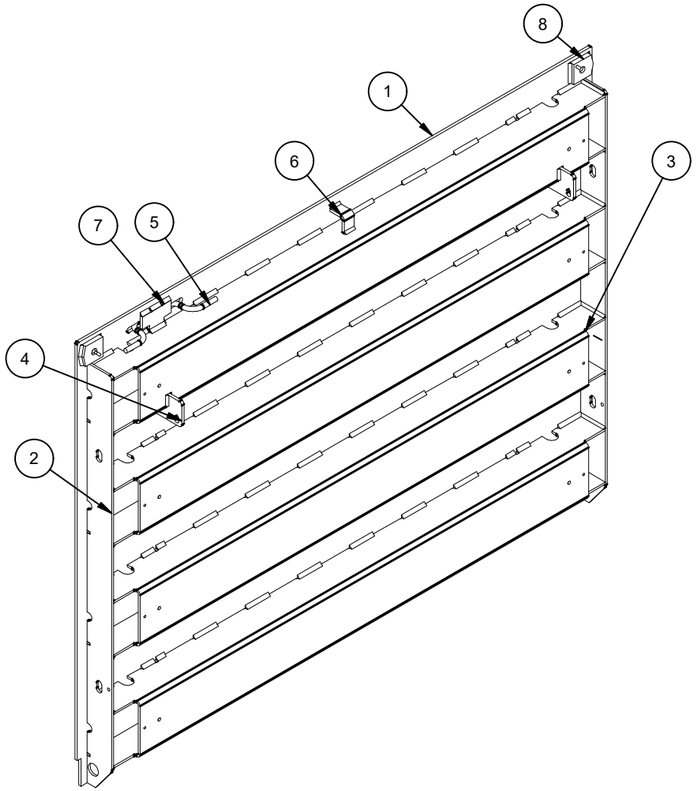
MATERIAL FINISH: Raw		PART NUMBER & DESCRIPTION: 200054129 FAS-4878-AH4-R-LL-LV-OH09	REV: E-3-2
MATERIAL SURFACE: Smooth		WEIGHT: 188.28 Lbs	DRAWN BY: R. Dohr / SHEET: 5
		CREATED: 6/25/2021	MODIFIED: 2/24/2026

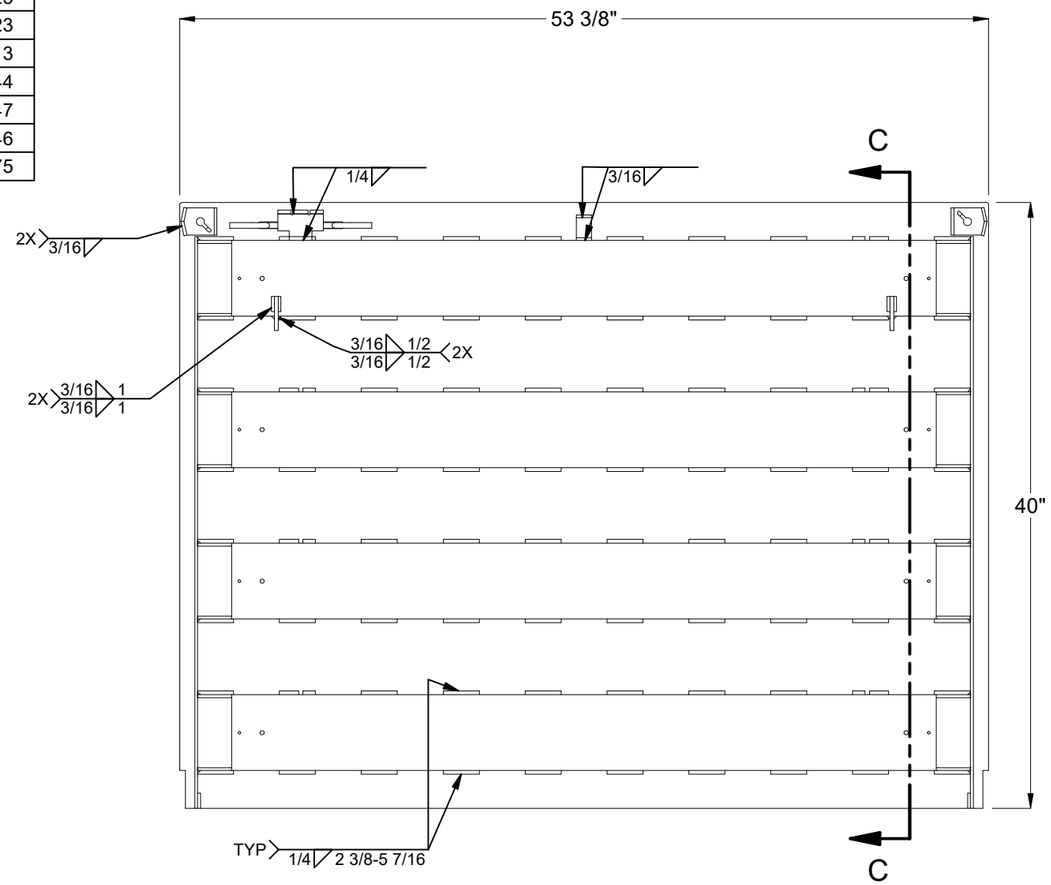
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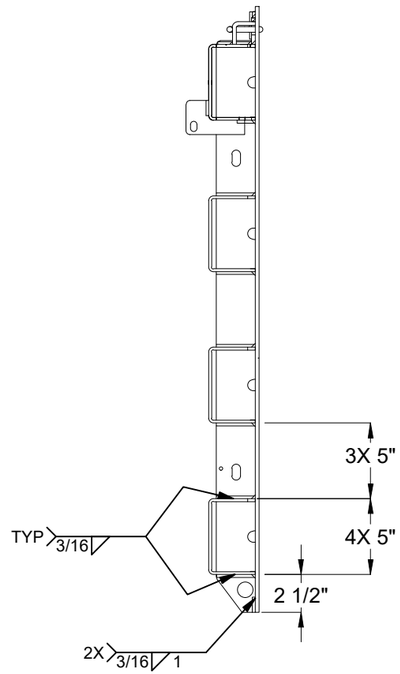
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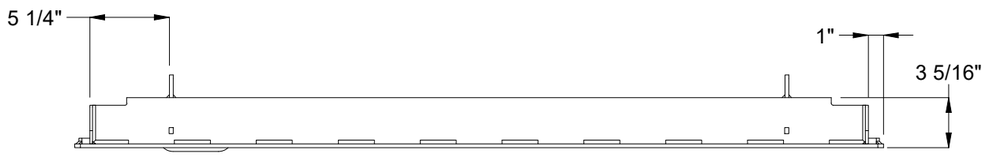
ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	166.234 lbmass	166.234 lbmass	100007736	Door Component Steel Plate, Top	200054128
2	4.847 lbmass	9.695 lbmass	100007821	Door Component Steel Side Bar	200054125
3	27.217 lbmass	108.868 lbmass	100007821	Door Component Steel Channel	200054123
4	0.382 lbmass	0.764 lbmass	100007735	CUSTOM GAS SPRING DOOR MOUNT	200057113
5	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
6	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647
7	1	1	100007646	HANDLE RETAINER STL	100007646
8	1	2	100007675	CAM BASE	100007675







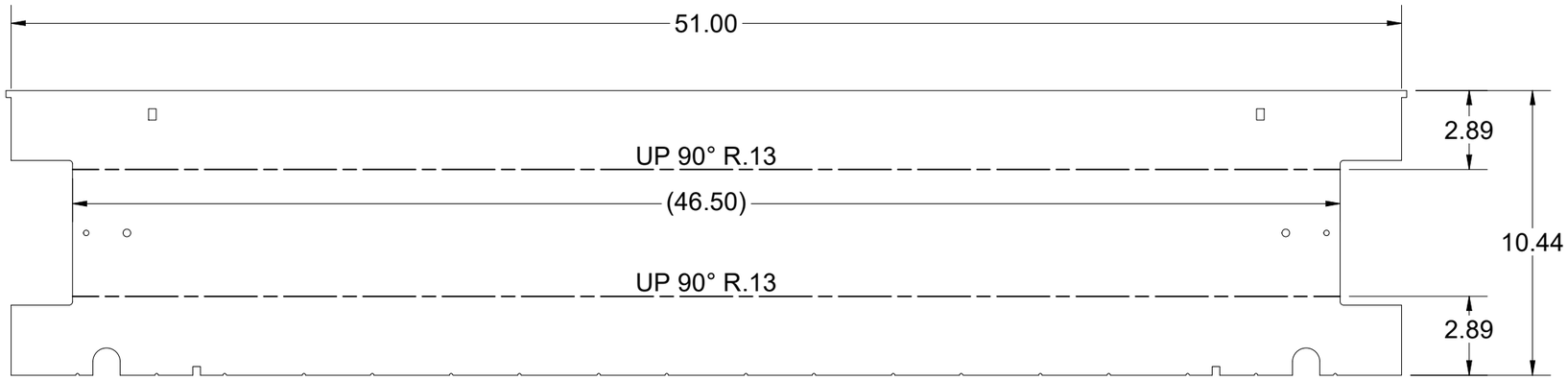
SECTION C-C

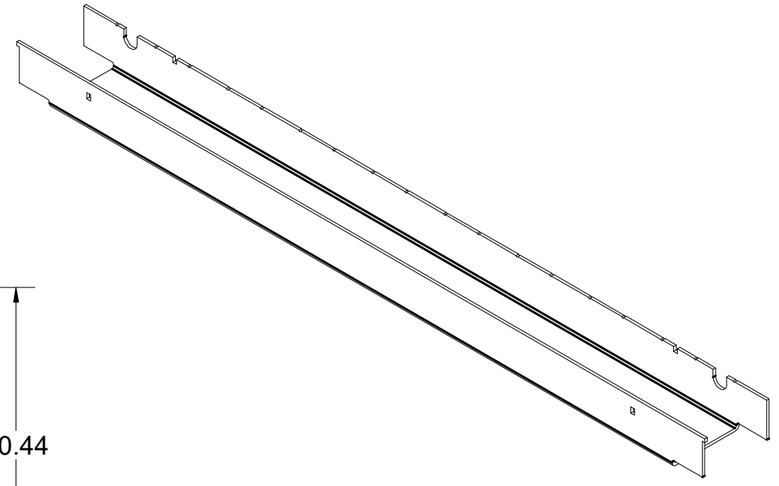


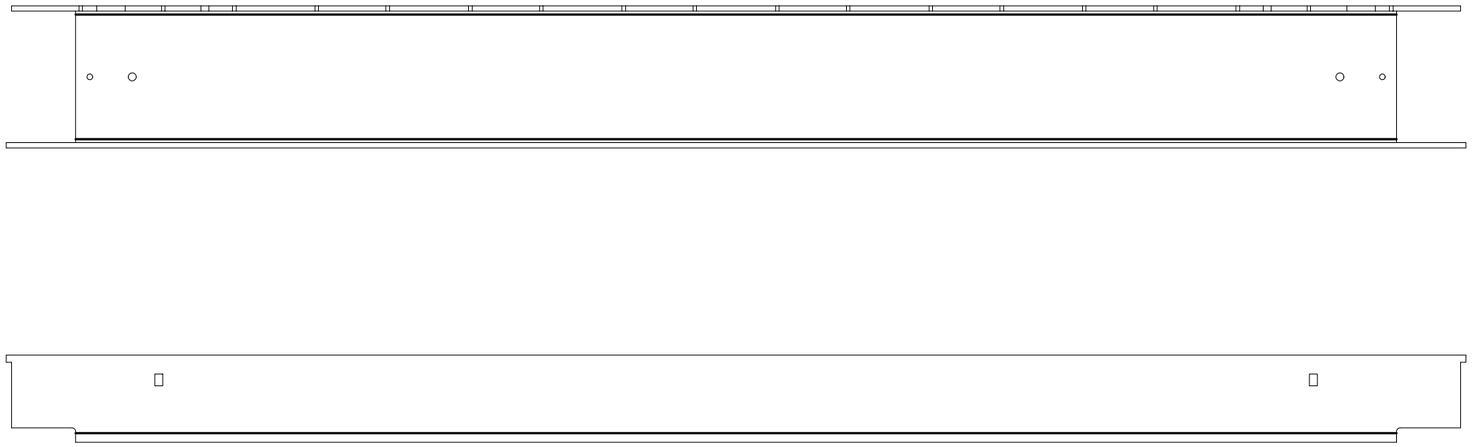
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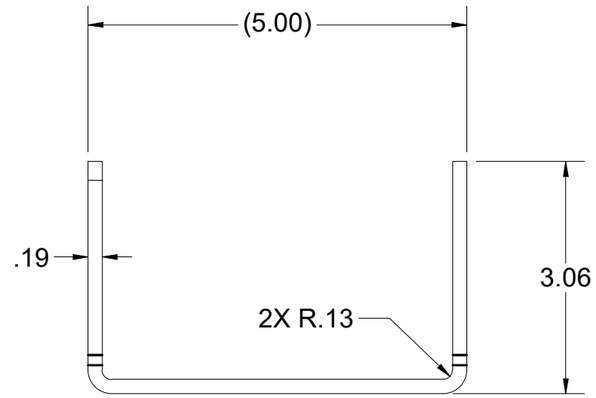
MATERIAL FINISH: Raw	Infrastructure JENSEN 527 Dunn Circle, Sparks, NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2026 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Infrastructure , any use of Jensen Infrastructure work product without express, written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action. This product shall only be produced in a Jensen Infrastructure facility.	PART NUMBER & DESCRIPTION: 200054127 DAS2-T-4878-H4-DP-R-CL-LV	REV: E-3-2
MATERIAL SURFACE: Diamond Plate			WEIGHT: 288.64 Lbs CREATED: 6/25/2021	DRAWN BY: R. Dohr MODIFIED: 2/24/2026 SHEET: 6

SYMMETRIC









BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
0.125	2	90	0.345

MATERIAL IFS: 100007821

MATERIAL THK: 0.1875

MAT DESCRIPTION: SHT STL GR80 SM-HRPO RAW .1875

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NAME & DESCRIPTION: 200054123 Door Component Steel Channel

REV: E-3-2

WEIGHT: 27.217 lbmass

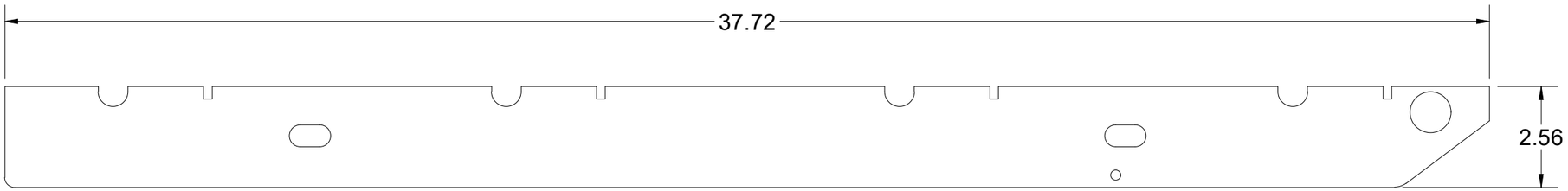
DRAWN BY: R. Dohr

SHEET: 7 OF 14

CREATED: 6/25/2021

MODIFIED: 2/24/2026

100002389.idw





BEND TABLE				MATERIAL IFS: 100007821
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
-	-	- 0	-	MAT DESCRIPTION: SHT STL GR80 SM-HRPO RAW .1875

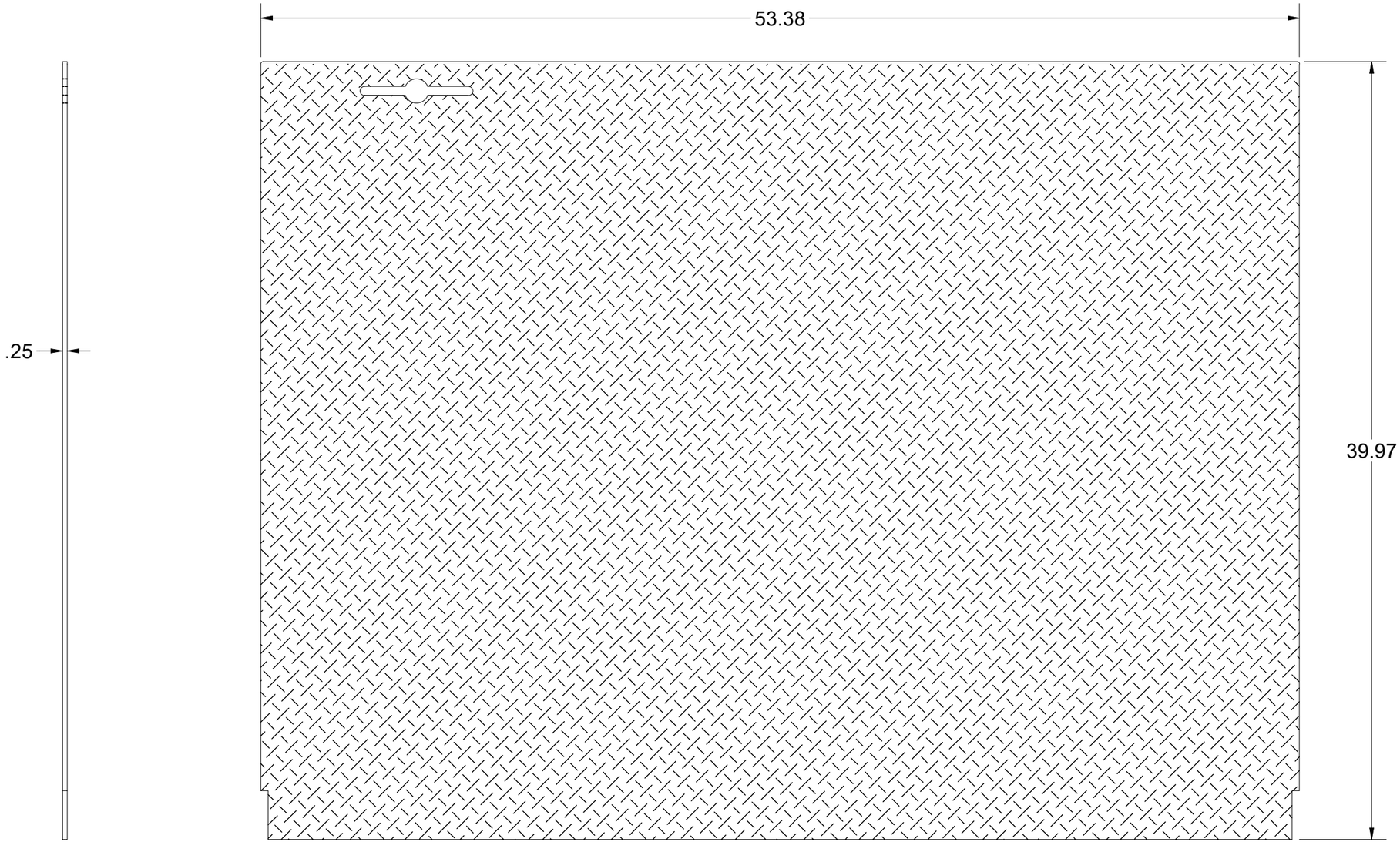
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NAME & DESCRIPTION: 200054125 Door Component Steel Side Bar		REV: E-3-2
WEIGHT: 4.847 lbmass	DRAWN BY: R. Dohr	SHEET: 8 OF 14
CREATED: 6/25/2021	MODIFIED: 2/24/2026	

100002389.idw

NON SYMMETRIC



BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
-	-	- 0	-

MATERIAL IFS: 100007736

MATERIAL THK: 0.25

MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD

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NAME & DESCRIPTION: 200054126
Door Component Steel Plate, Bottom

REV: E-3-2

WEIGHT: 166.426 lbmass

DRAWN BY: R. Dohr

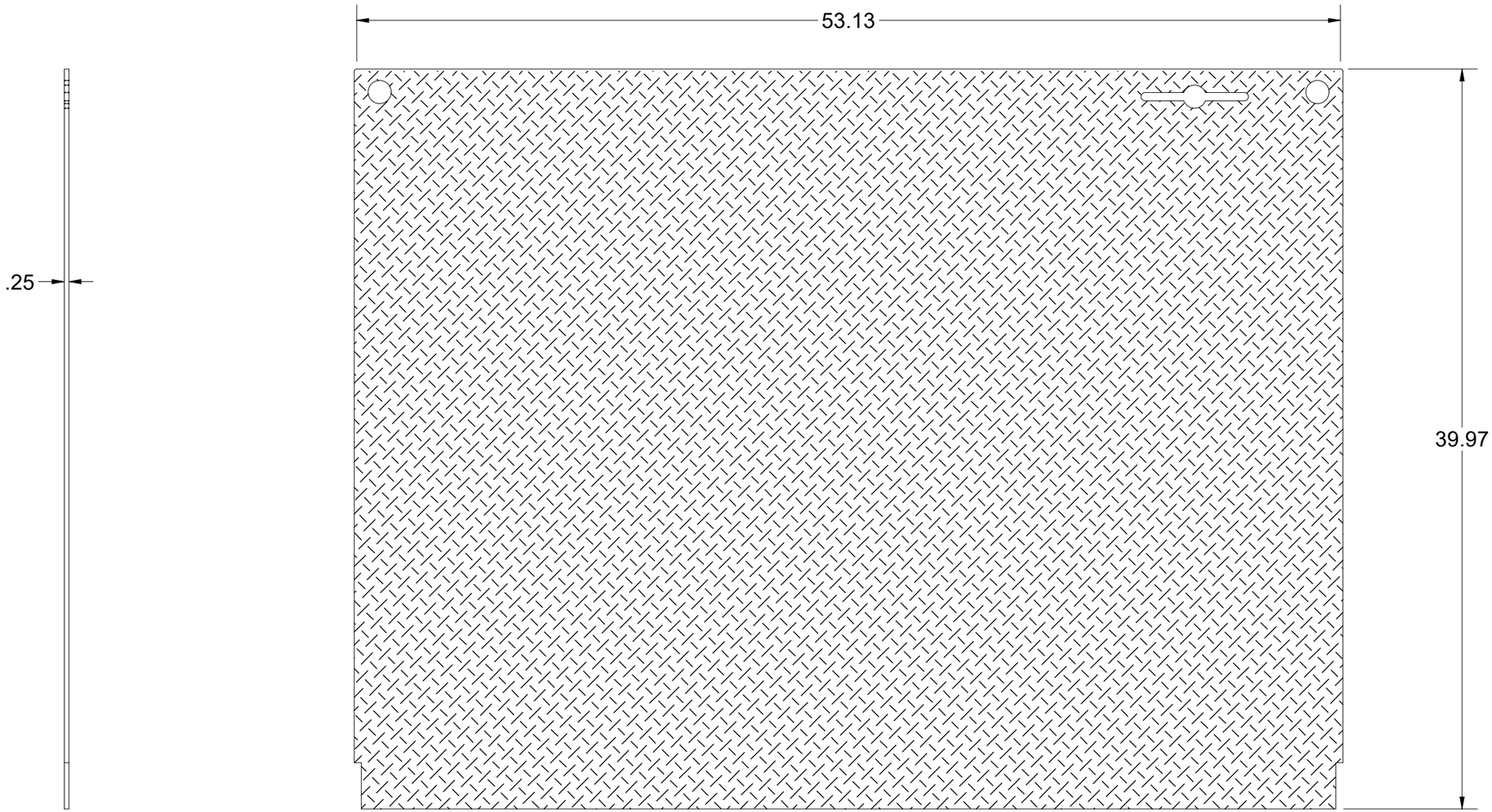
CREATED: 6/25/2021

MODIFIED: 2/24/2026

SHEET: 9 OF 14

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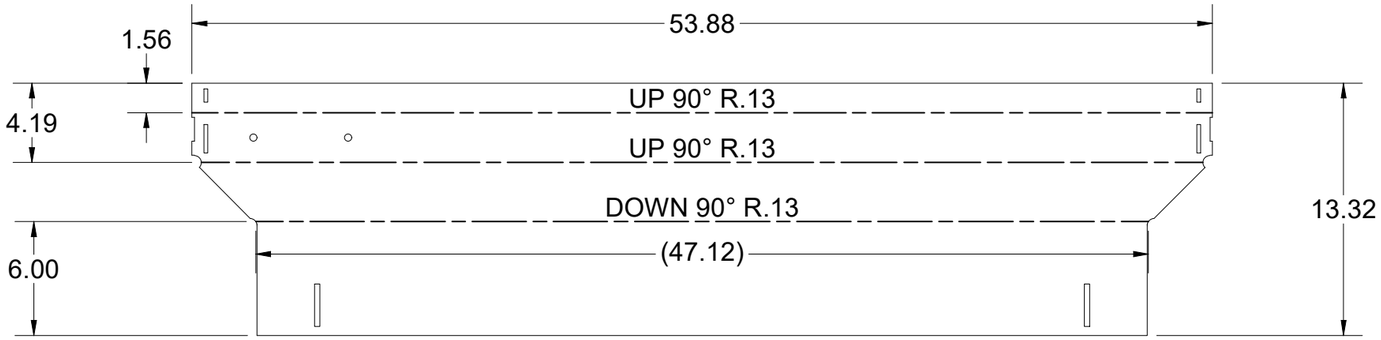
BEND TABLE				MATERIAL IFS: 100007736
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25
-	-	- 0	-	MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD

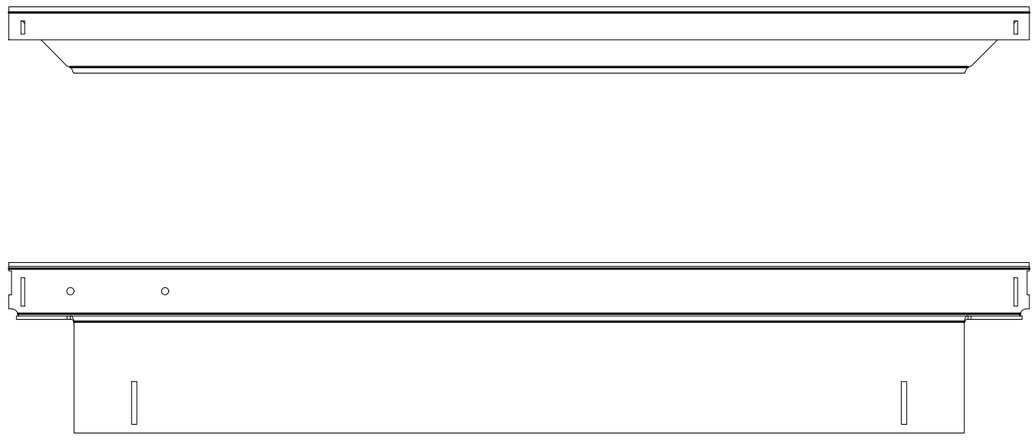
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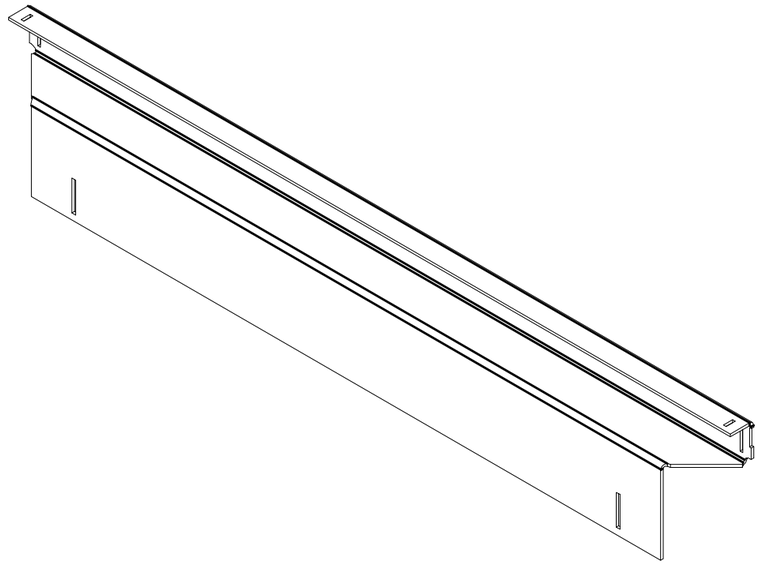
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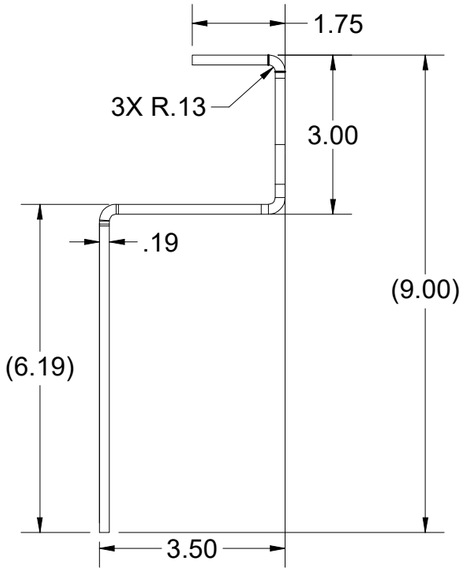
NAME & DESCRIPTION: 200054128 Door Component Steel Plate, Top		REV: E-3-2
WEIGHT: 166.234 lbmass	DRAWN BY: R. Dohr	SHEET: 10 OF 14
CREATED: 6/25/2021	MODIFIED: 2/24/2026	

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BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	2	90	0.375	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

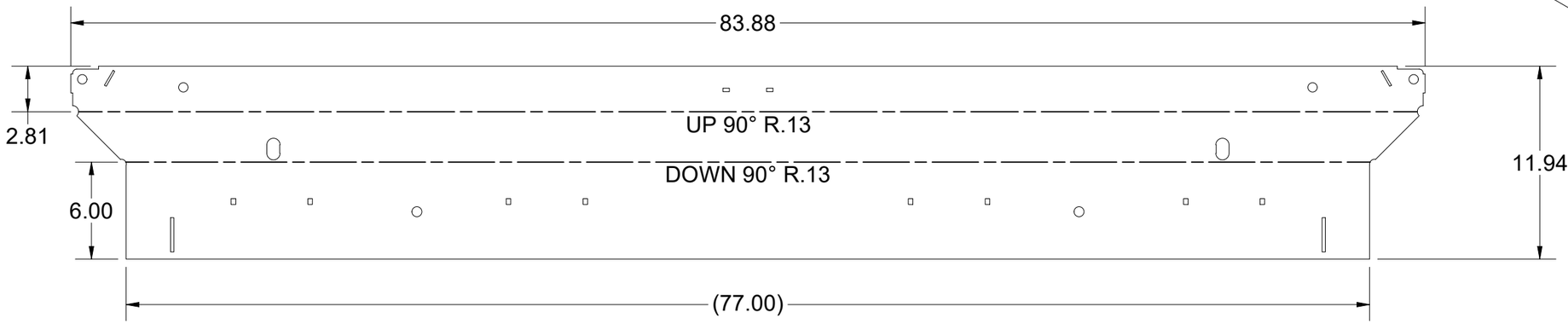
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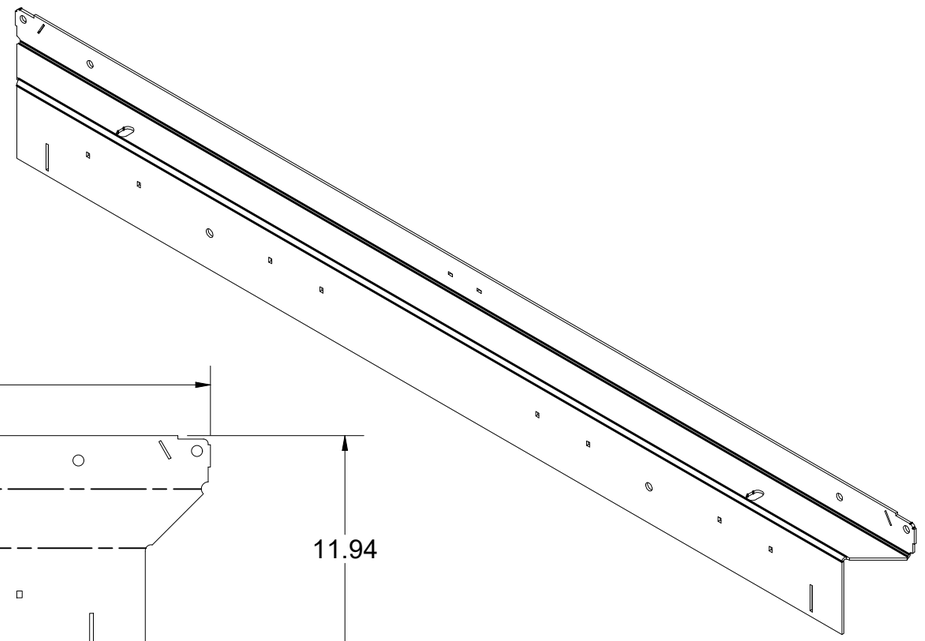
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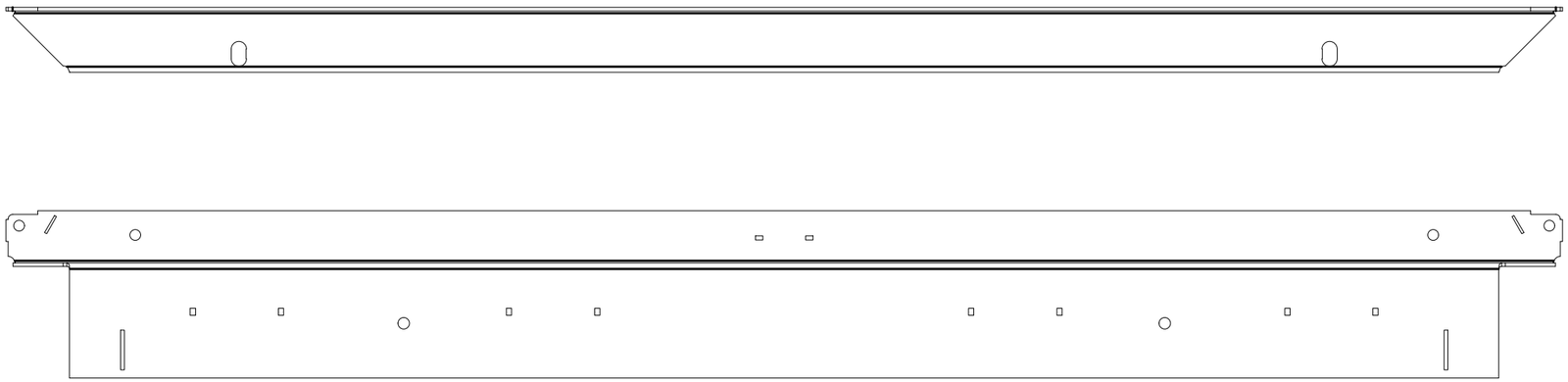
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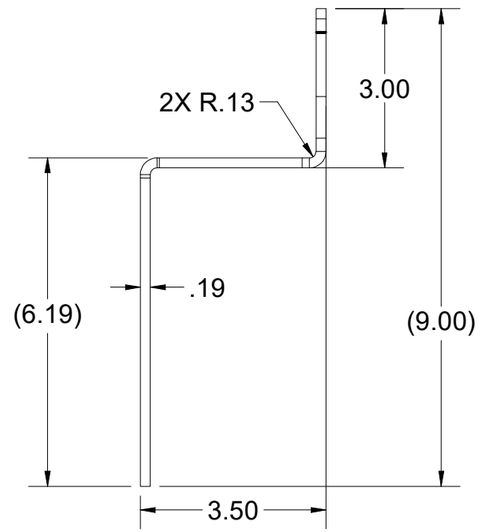
NAME & DESCRIPTION: 200054130 Frame Component Steel Frame End, Adjustable Clevis Mount		REV: E-3-2
WEIGHT: 35.988 lbmass	DRAWN BY: R. Dohr	SHEET: 11 OF 14
CREATED: 6/25/2021	MODIFIED: 2/24/2026	

SYMMETRIC









BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
0.125	2	90	0.375

MATERIAL IFS: 100007734

MATERIAL THK: 0.1875

MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

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NAME & DESCRIPTION: 200054131
Frame Component Steel Frame Side, Adjustable Clevis Mount,Ladder Loops

REV: E-3-2

WEIGHT: 50.917 lbmass

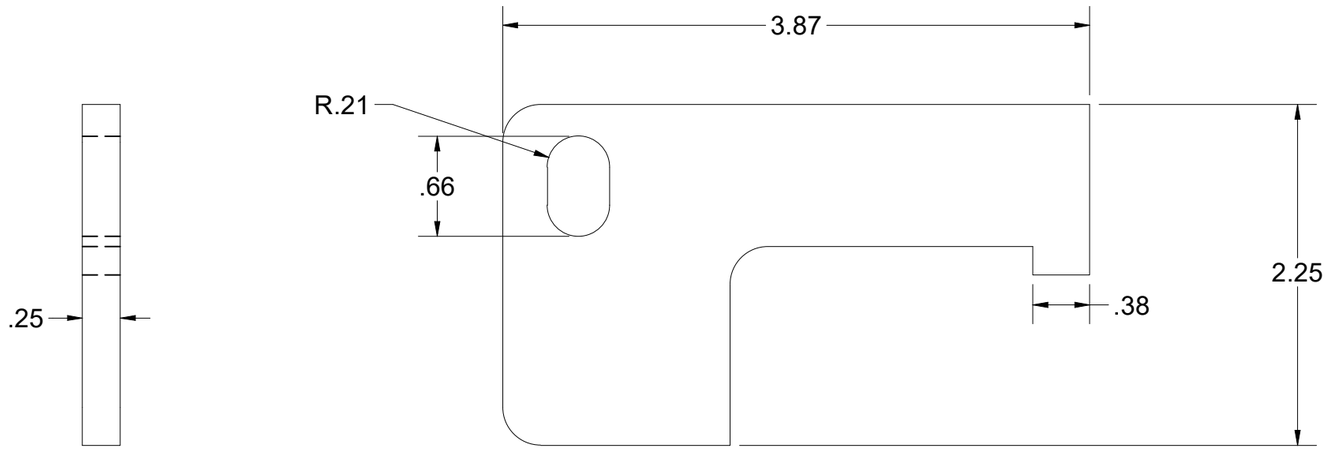
DRAWN BY: R. Dohr

CREATED: 6/25/2021

MODIFIED: 2/24/2026

SHEET: 12 OF 14

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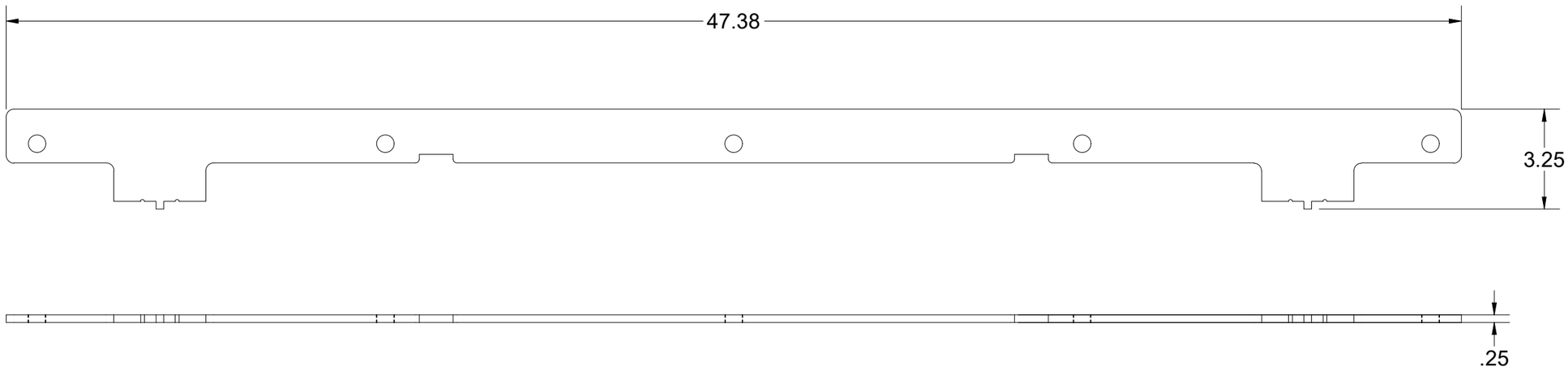
BEND TABLE				MATERIAL IFS: 100007735
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25
-	-	- 0	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250

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NAME & DESCRIPTION: 200057113 CUSTOM GAS SPRING DOOR MOUNT		REV: E-3-2
WEIGHT: 0.385 lbmass	DRAWN BY: R. Dohr	SHEET: 13 OF 14
CREATED: 6/25/2021	MODIFIED: 2/24/2026	

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BEND TABLE				MATERIAL IFS: 100007735			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25			
-	-	- 0	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250			

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NAME & DESCRIPTION: 200087252 Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset		REV: E-3-2
WEIGHT: 6.293 lbmass	DRAWN BY: R. Dohr	SHEET: 14 OF 14
CREATED: 6/25/2021	MODIFIED: 2/24/2026	

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