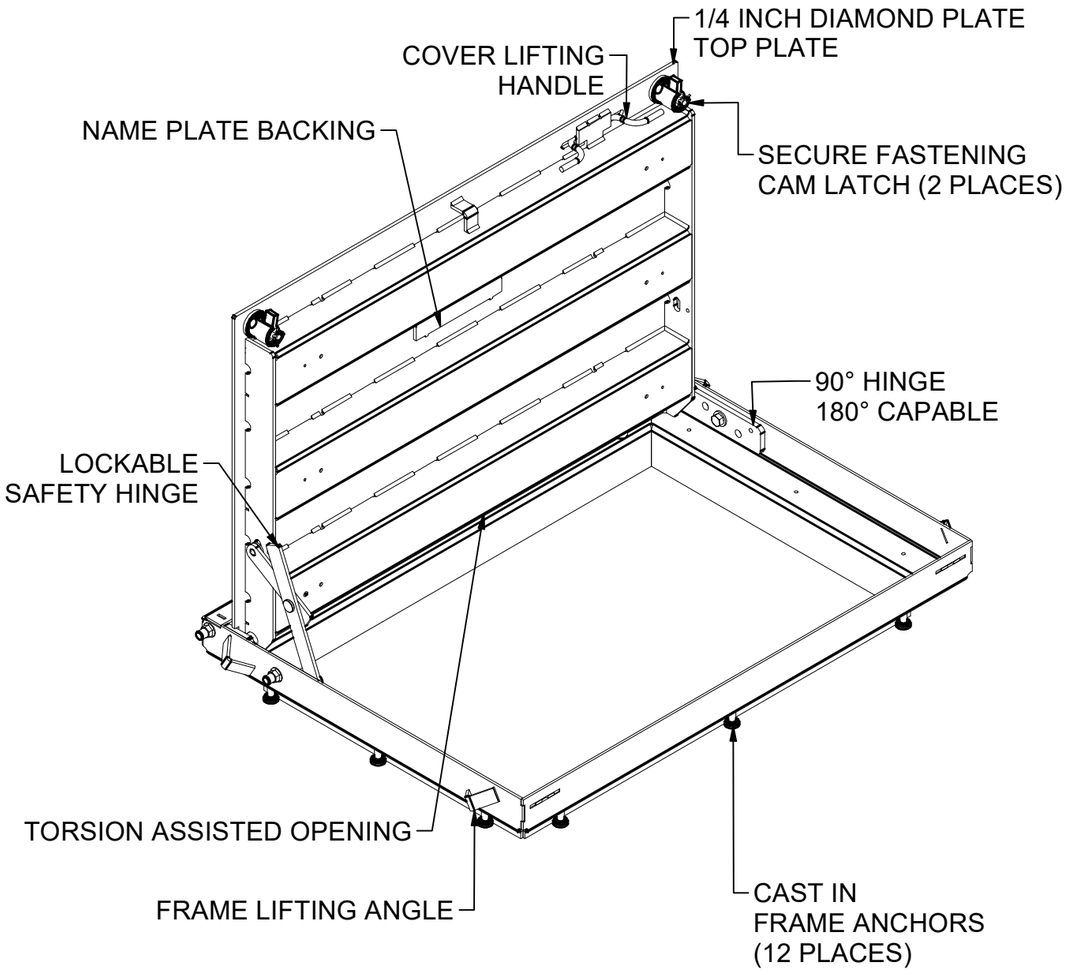
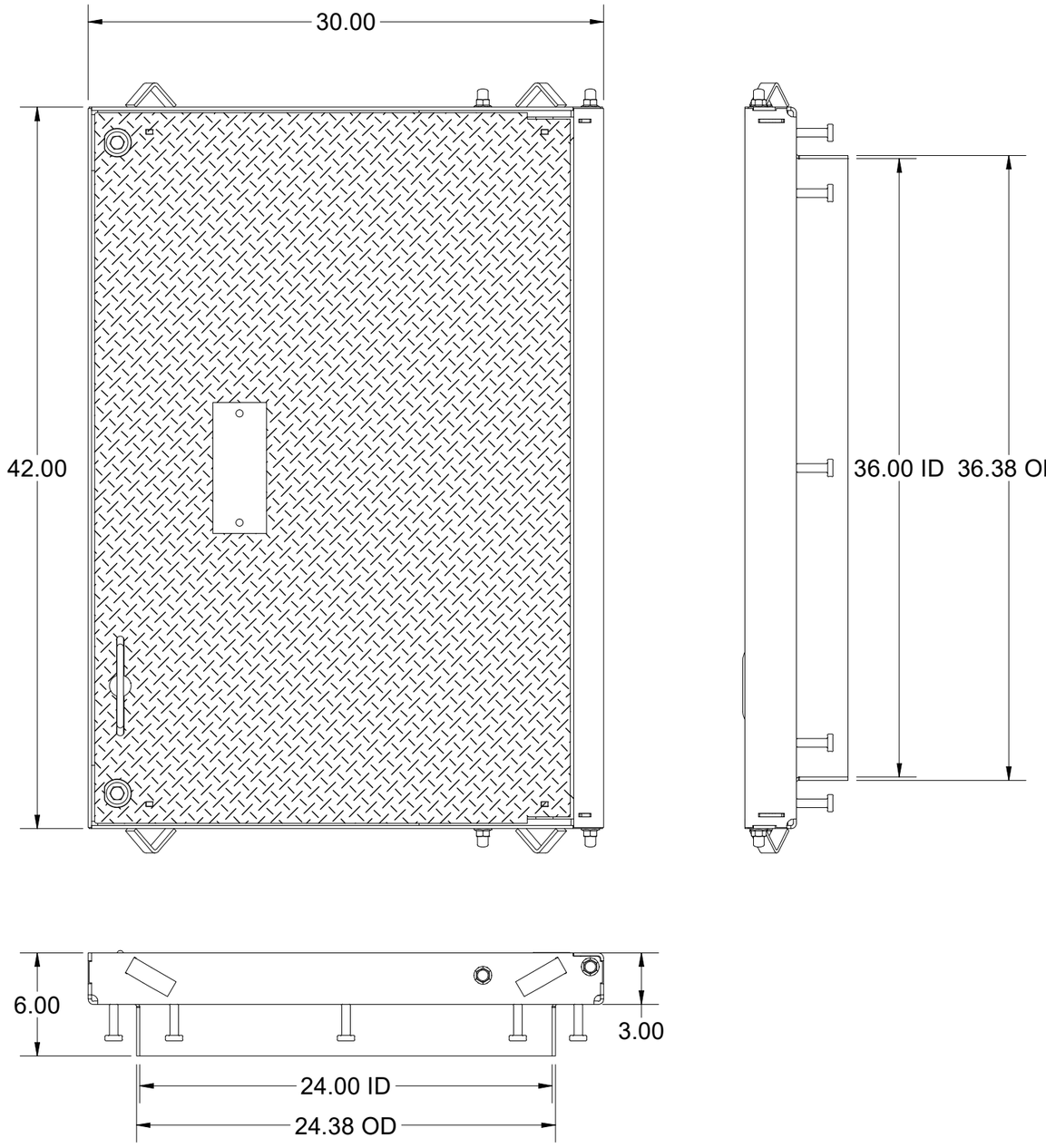




100007334.idw

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:	213.16 lbs	MARKING:	None

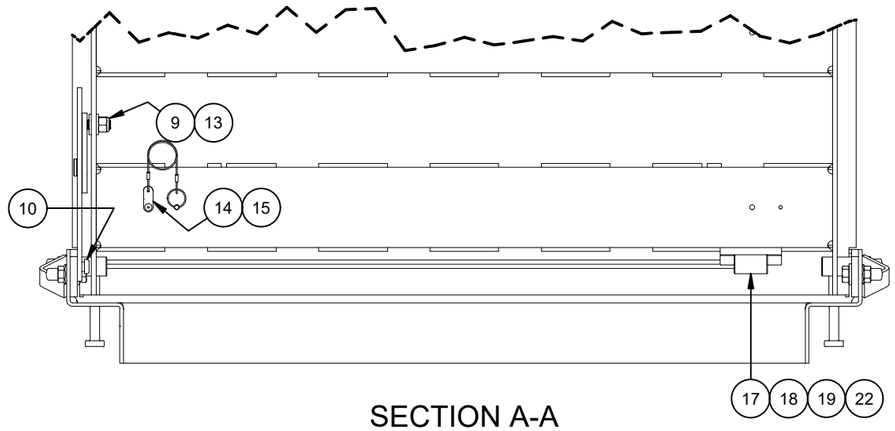
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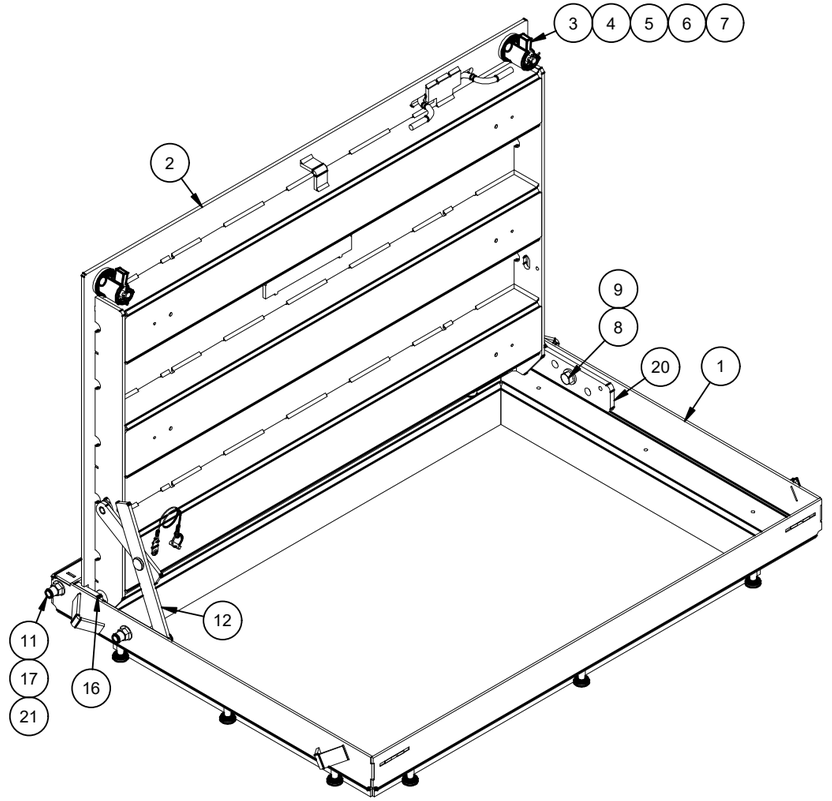
DESCRIPTION:	CAS1-2436-CH4-DP-G-CL-FONT-OH06 24x36 Standard Cover Assembly (ASTM C1802 Load Level 04, Steel, Hinged, Handle (1 Per Door), Diamond Plate, Galvanized) 06	REV:	A-1
PART NUMBER:	100007334	DRAWN BY:	C. Heywood
CREATED:	6/26/2025	MODIFIED:	5/1/2026
		SHEET:	1

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	1	200102898	FAS-2436-CH4-R-FONT-OH06	200102898
2	1	1	200102908	DAS1-T-2436-H4-DP-R-CL-FONT	200102908
3	2	2	100007857	NUT FINGER 1/2-13 BRASS	100007857
4	2	2	100007729	HEX NUT SLOTTED CASTLE HEAD 1/2-13 SS	100007729
5	2	2	100007915	SPRING COMPRESSION 055 X 5/8 X 7/8 LONG	100007915
6	2	2	100011407	GR5 HEX BOLT - 1/2-13 UNC - 2.25 - DRILLED	100011407
7	2	2	100007918	COTTER PIN 0.094DIA X 1-1/4	100007918
8	2	2	100003823	Hex Bolt 1/2-13 UNC ZINC - PT - 1.5"	100003823
9	4	4	100011418	WASHER FLAT 1/2 NARROW ZINC	100011418
10	1	1	100007876	Bolt Shoulder Socket Head - 3/8-16 UNC - SD-0.5" - SL-0.3125" - Grade 5 - Zinc	100007876
11	4	4	100007939	CAP VINYL .467 X 1/2	100007939
12	1	1	100007933	SAFETY LATCH ASSY FOR UNI AND 90 D HINGE	100007933
13	1	1	100007492	HEX NUT NYLOCK - 1/2-13 UNC - GR5 - ZINC	100007492
14	1	1	100007924	LANYARD 3/64 W/PIN COATED SS	100007924
15	1	1	100007882	Rivet Blind Grip .1875" Large Domed Head Range-0.376-0.5" Steel	100007882
16	1	1	100007657	Hinge Assembly, Left, 7/16, Steel	100007657
17	4	4	100007869	BOLT SOCKET CAP - 1/2-13 UNC - 1.75 - 316SS	100007869
18	1	1	100007670	SPRING MOUNT ASSY .438	100007670
19	2	2	100007859	RIVET NUT 3/8-16 FLAT KNURLED	100007859
20	1	1	100007666	Hinge Assembly, Right, Steel	100007666
21	4	4	100026256	LOW-STRENGTH STEEL FLANGE NUT, 1/2" - 13 THREAD SIZE	100026256
22	1	1	100007726	TORSION HEX ROD .4375 x 36in RAW	100007726



SECTION A-A
SCALE 1/8



100007334.idw

REVISION HISTORY		
DESCRIPTION	DATE	REVISED BY
57473-7: CONVERTED DESIGN TO INVENTOR. UPDATED WELDS AND CALCS. CHANGED BENT CHANNEL V-OPENING TO A 2 IN OPENING.	7/08/2025	COLLIN HEYWOOD

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100007334 CAS1-2436-CH4-DP-G-CL-FONT-OH06

REV: A-1

WEIGHT: 213.16 Lbs

DRAWN BY: C. Heywood

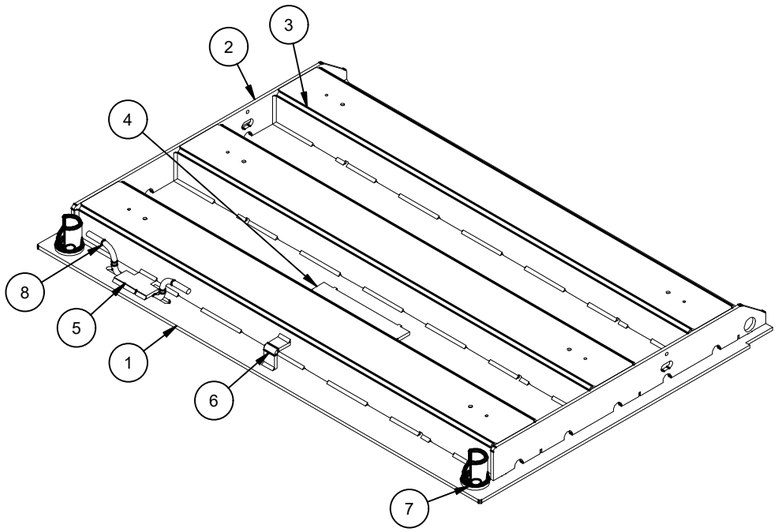
CREATED: 6/26/2025

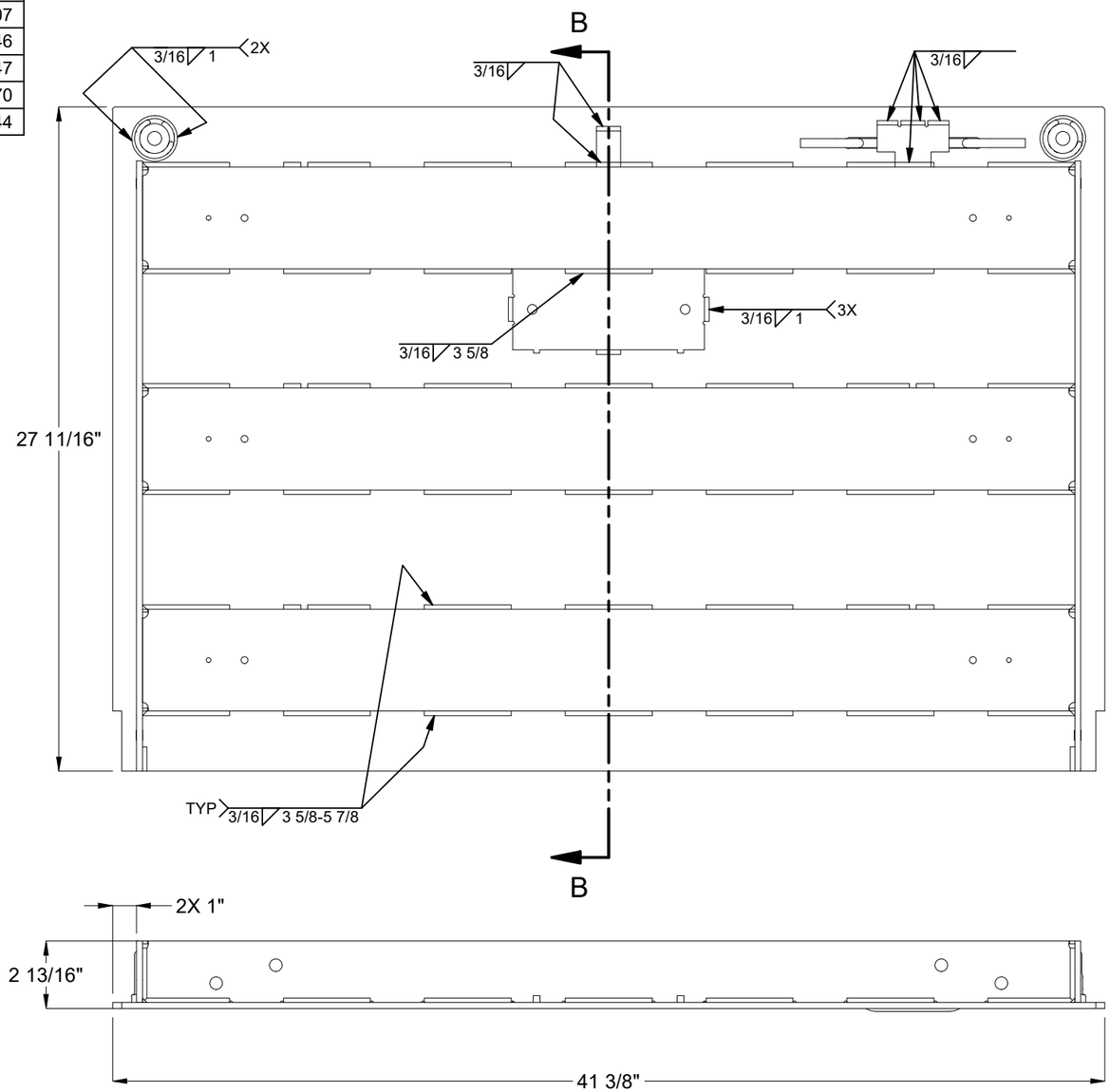
MODIFIED: 5/1/2026

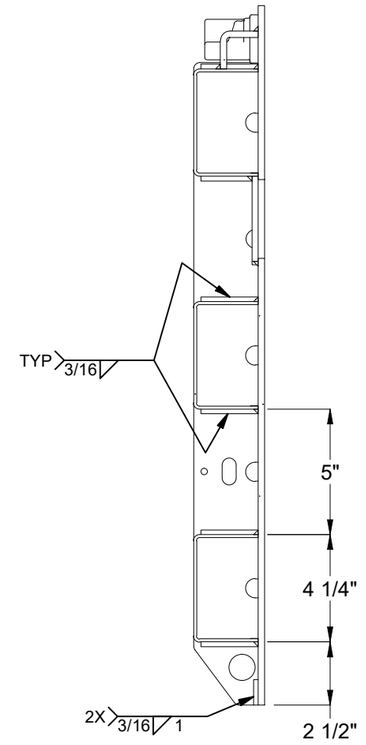
SHEET: 2

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	86.991 lbmass	100007736	Door Component Steel Plate, Top	200102900
2	2	8.564 lbmass	100007735	Door Component Steel Side Bar	200102901
3	3	35.322 lbmass	100007840	Door Component Steel Channel	200102899
4	1	1.905 lbmass	100007735	NAME PLATE BACKING PLATE	200102907
5	1	1	100007646	HANDLE RETAINER STL	100007646
6	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647
7	2	2	100007970	CAM TOWER CAST STEEL	100007970
8	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644







SECTION B-B
SCALE 1/6

100007334.idw

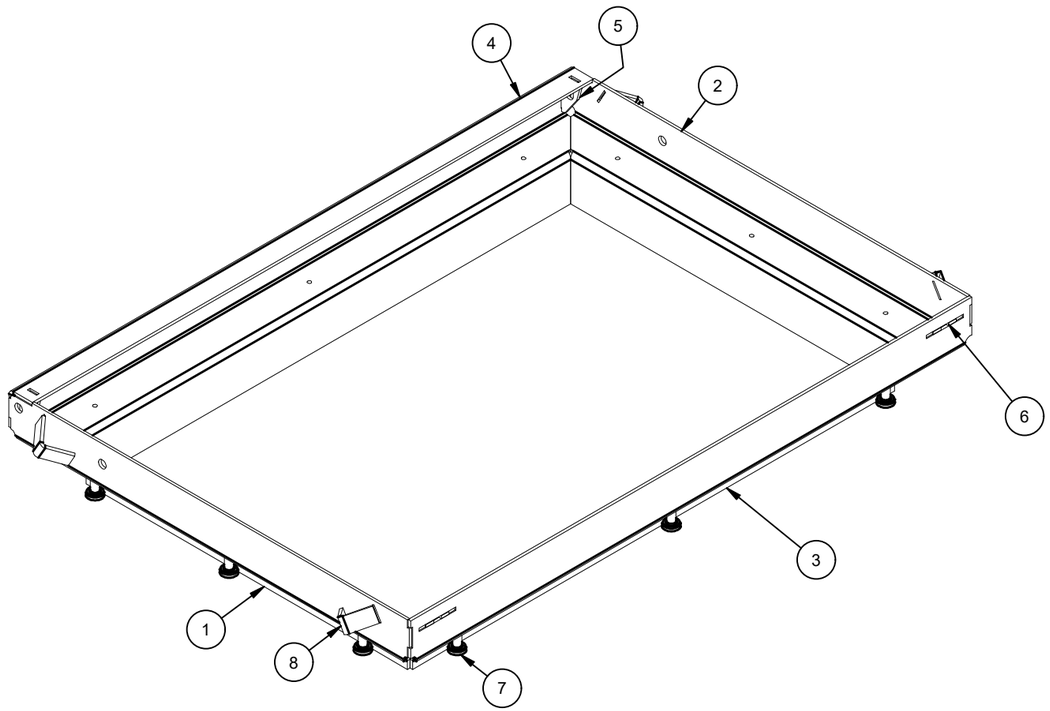
MATERIAL FINISH: Raw		PART NUMBER & DESCRIPTION: 200102908 DAS1-T-2436-H4-DP-R-CL-FONT	REV: A-1
MATERIAL SURFACE: Diamond Plate	WEIGHT: 135.46 Lbs	DRAWN BY: C. Heywood	SHEET: 3
	CREATED: 6/26/2025	MODIFIED: 5/1/2026	

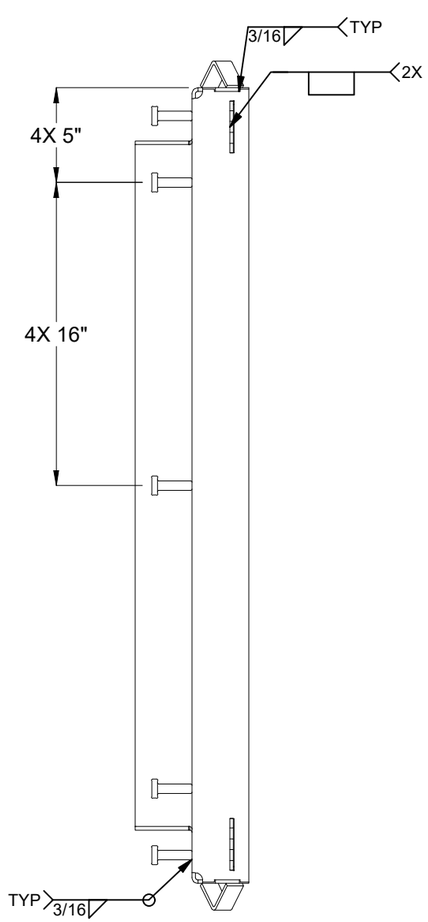
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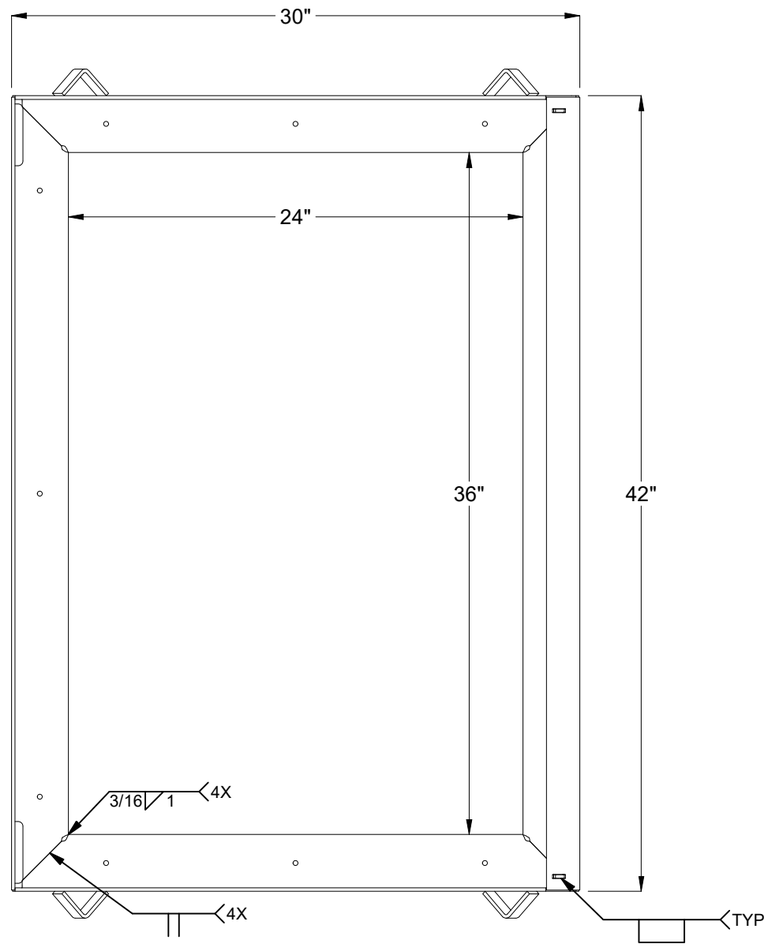
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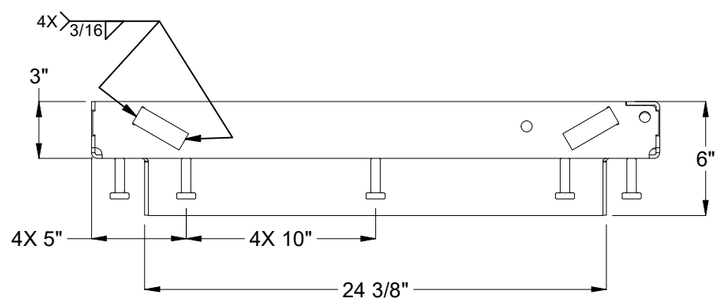
BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	12.227 lbmass	100007734	Frame Component Steel Frame Side Left, Cast In	200102891
2	1	12.227 lbmass	100007734	Frame Component Steel Frame Side Right, Cast In	200102896
3	1	17.716 lbmass	100007734	Frame Component Steel Frame Front, Cast In	200102895
4	1	21.011 lbmass	100007734	Frame Component Steel Frame End, Cast In	200102897
5	2	2	200018691	FRAME BOLT DOUBLER SLOT	200018691
6	2	0.175 lbmass	100007734	Frame Slam Latch Catch Plate - A36 - 0.41" Overhang	200080115
7	12	12	100007889	Anchor Weld Stud - H4L - 0.5" - A29/A108 - 2.125"	100007889
8	4	4	100007641	FRAME LIFTING BRACKET	100007641









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MATERIAL FINISH: Raw

MATERIAL SURFACE: Smooth

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PART NUMBER & DESCRIPTION: 200102898
FAS-2436-CH4-R-FONT-OH06

REV: A-1

WEIGHT: 66.37 Lbs

DRAWN BY: C. Heywood

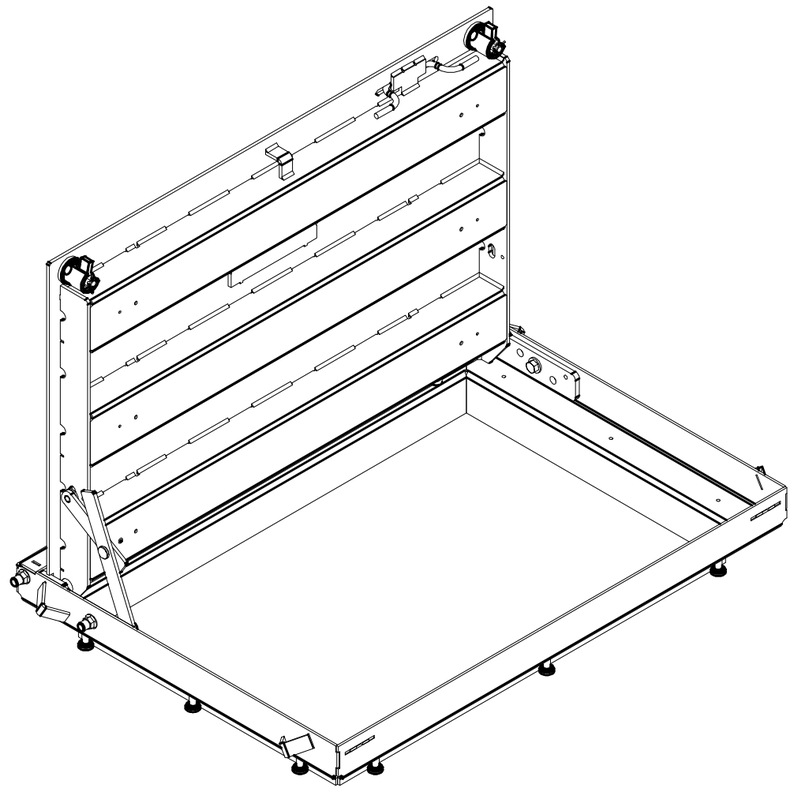
CREATED: 6/26/2025

MODIFIED: 5/1/2026

SHEET: 4

BURN LIST - BOM

PART NAME	ITEM QTY	QTY	DESCRIPTION	STOCK NUMBER	MATERIAL	MASS	SHEET
200080115	2	0.175 lbmass	Frame Slam Latch Catch Plate - A36 - 0.41" Overhang	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	0.087 lbmass	06
200102891	1	12.227 lbmass	Frame Component Steel Frame Side Left, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	12.227 lbmass	07
200102895	1	17.716 lbmass	Frame Component Steel Frame Front, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	17.716 lbmass	08
200102896	1	12.227 lbmass	Frame Component Steel Frame Side Right, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	12.227 lbmass	09
200102897	1	21.011 lbmass	Frame Component Steel Frame End, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	21.004 lbmass	10
200102899	3	35.322 lbmass	Door Component Steel Channel	100007840	SHT STL GR80 GA-11 SM-HR RAW .1196	11.774 lbmass	11
200102900	1	86.991 lbmass	Door Component Steel Plate, Top	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	86.955 lbmass	12
200102901	2	8.564 lbmass	Door Component Steel Side Bar	100007735	STL ASTM A36 SM-HRPO RAW .250	4.282 lbmass	13
200102907	1	1.905 lbmass	NAME PLATE BACKING PLATE	100007735	STL ASTM A36 SM-HRPO RAW .250	1.905 lbmass	14



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MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100007334 CAS1-2436-CH4-DP-G-CL-FONT-OH06

REV: A-1

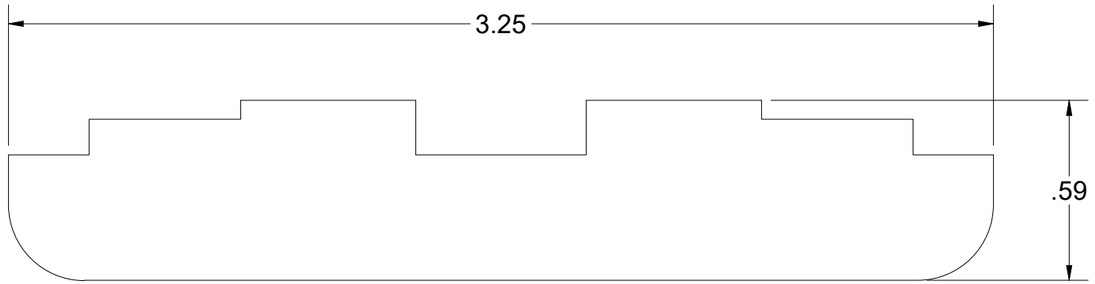
WEIGHT: 213.16 Lbs

DRAWN BY: C. Heywood

CREATED: 6/26/2025

MODIFIED: 5/1/2026

SHEET: 5





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

MATERIAL IFS: 100007734

MATERIAL THK: 0.1875

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

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NAME & DESCRIPTION: 200080115
Frame Slam Latch Catch Plate - A36 - 0.41" Overhang

REV: A-1

WEIGHT: 0.087 lbmass

DRAWN BY: C. Heywood

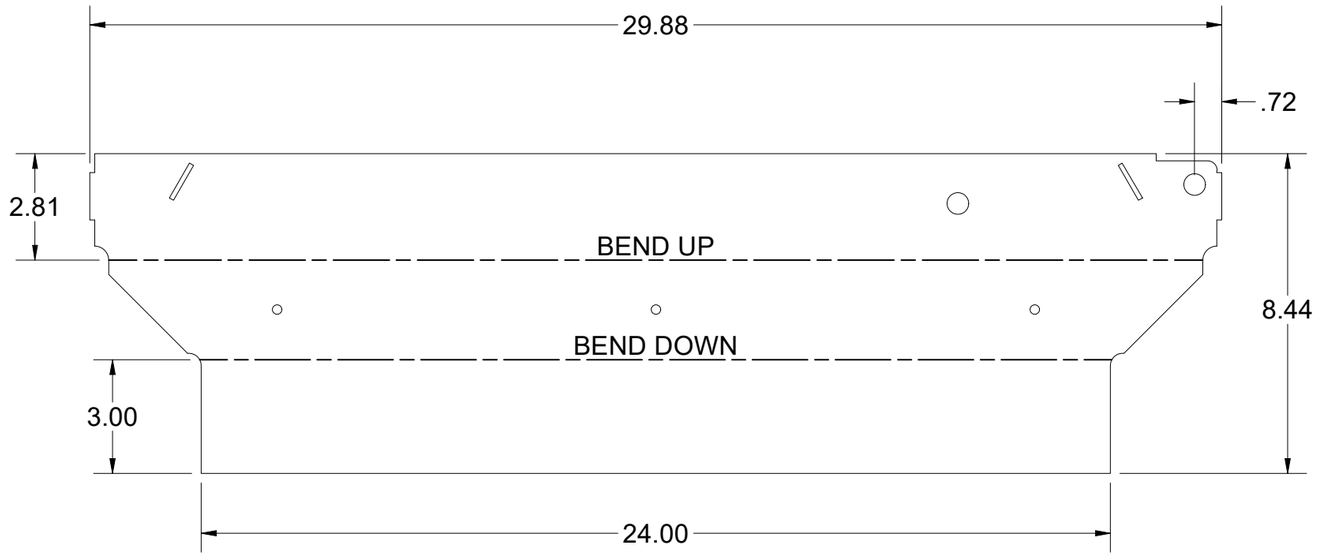
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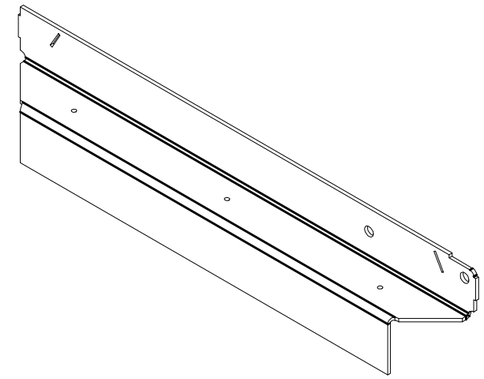
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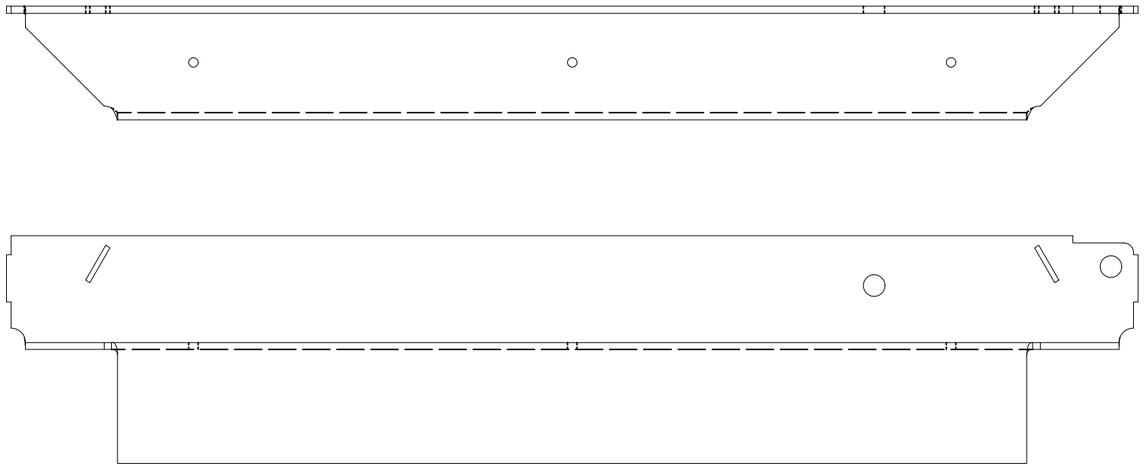
SHEET: 6 OF 14

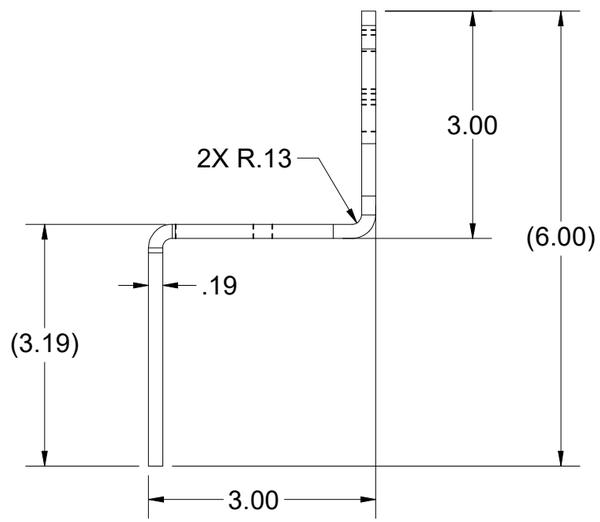
100007334.idw

ASYMMETRIC









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: 200102891 — Frame Component Steel Frame Side Left, Cast In

REV: A-1

WEIGHT: 12.227 lbmass

DRAWN BY: C. Heywood

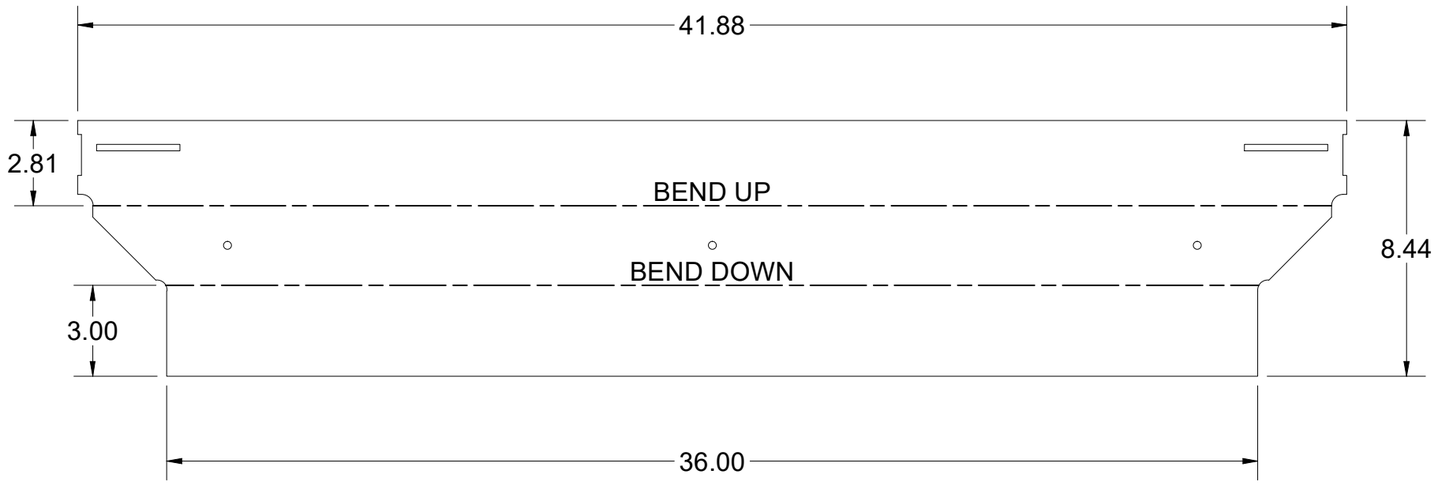
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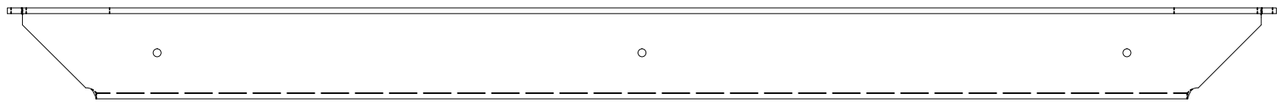
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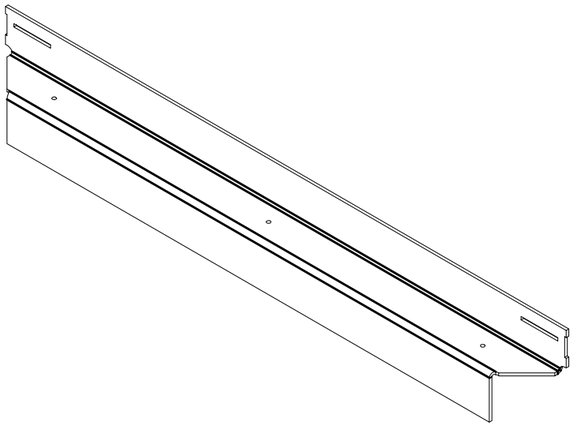
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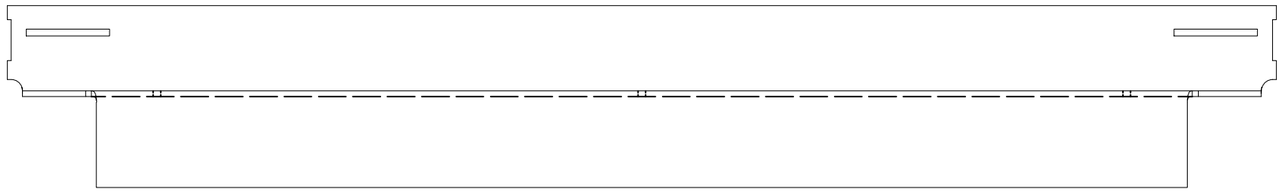
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SYMMETRIC









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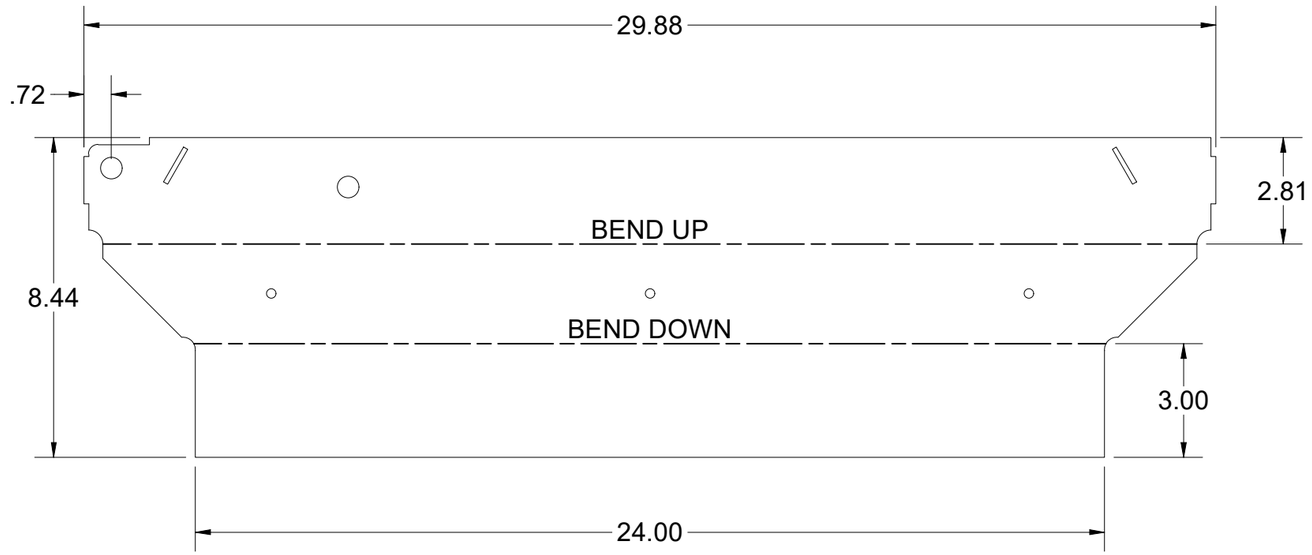
BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	2	90	0.375	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

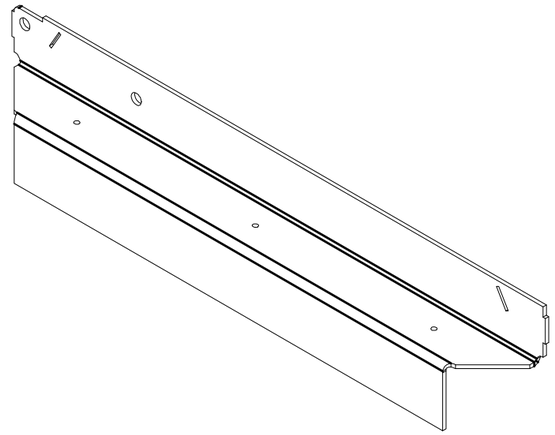
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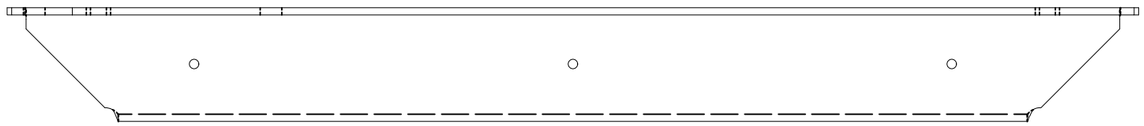
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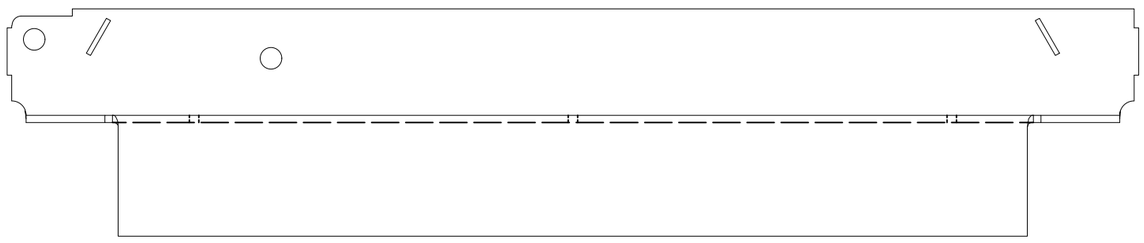
NAME & DESCRIPTION: 200102895 Frame Component Steel Frame Front, Cast In		REV: A-1
WEIGHT: 17.716 lbmass	DRAWN BY: C. Heywood	SHEET: 8 OF 14
CREATED: 6/26/2025	MODIFIED: 5/1/2026	

ASYMMETRIC









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: 200102896
Frame Component Steel Frame Side Right, Cast In

REV: A-1

WEIGHT: 12.227 lbmass

DRAWN BY: C. Heywood

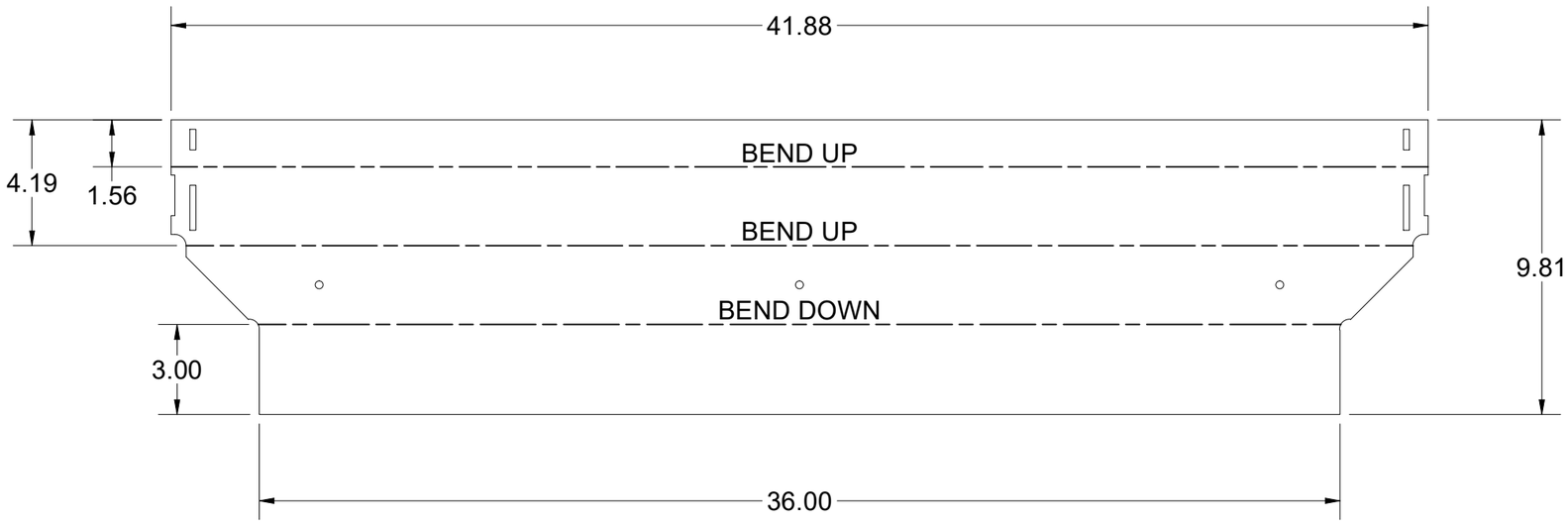
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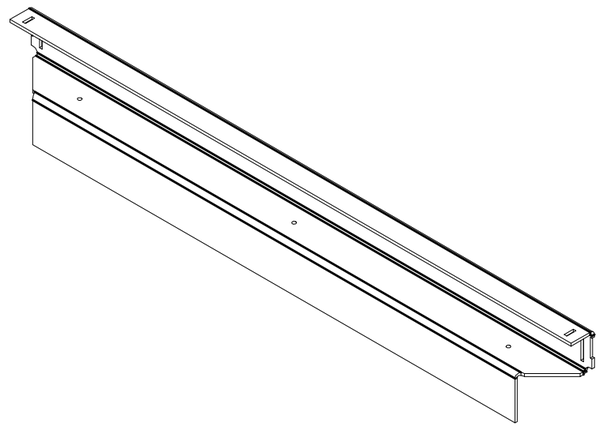
MODIFIED: 5/1/2026

SHEET: 9 OF 14

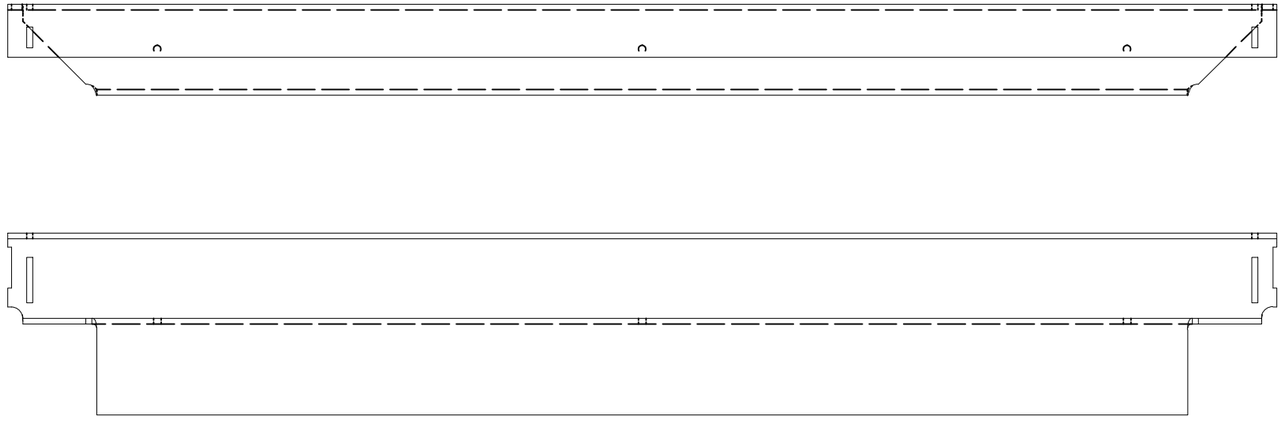
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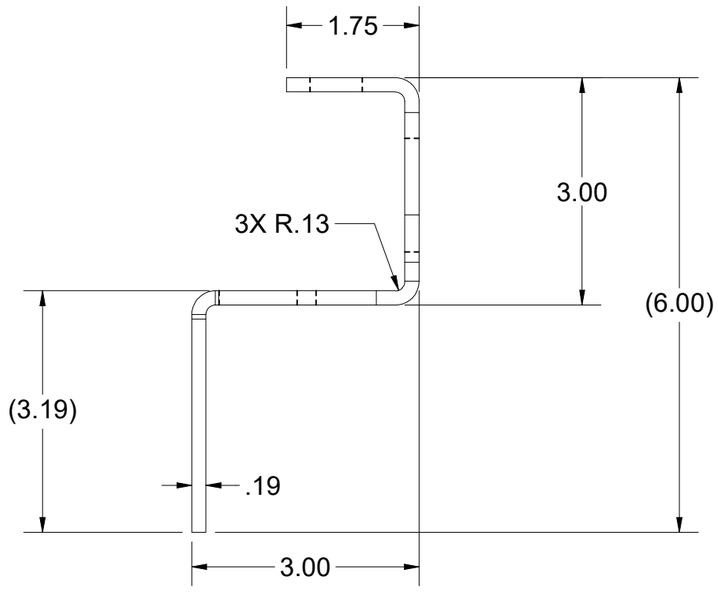
SYMMETRIC





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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: 200102897 Frame Component Steel Frame End, Cast In

REV: A-1

WEIGHT: 21.004 lbmass

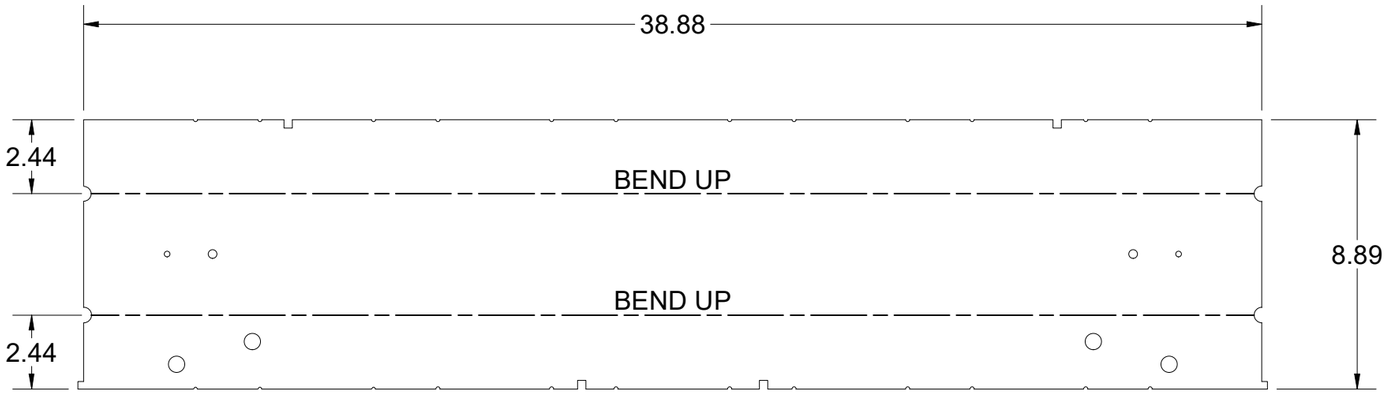
DRAWN BY: C. Heywood

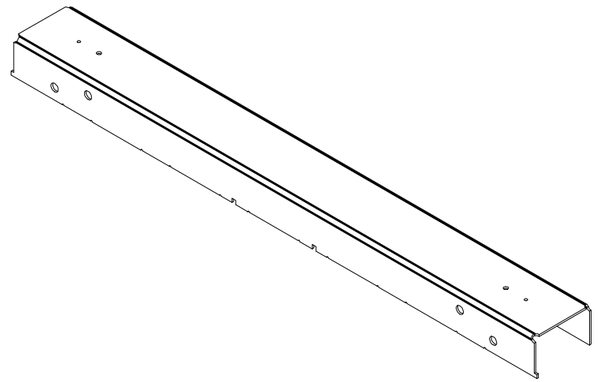
SHEET: 10 OF 14

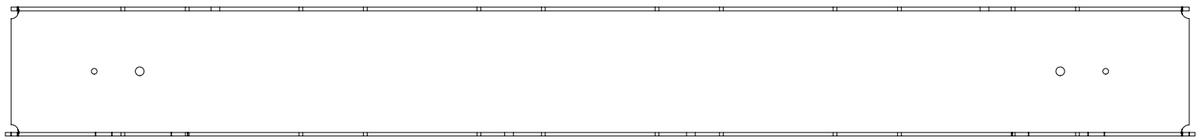
CREATED: 6/26/2025

MODIFIED: 5/1/2026

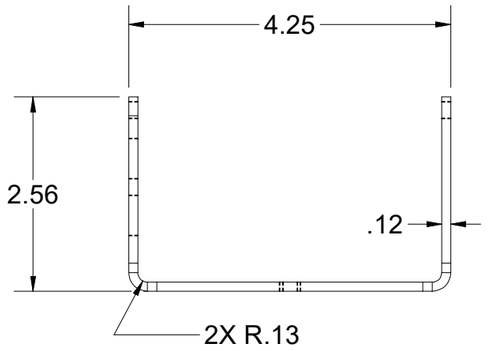
SYMMETRIC











BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
0.125	2	90	0.243

MATERIAL IFS: 100007840

MATERIAL THK: 0.1196

MAT DESCRIPTION: SHT STL GR80 GA-11 SM-HR RAW .1196

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NAME & DESCRIPTION: 200102899 Door Component Steel Channel

REV: A-1

WEIGHT: 11.774 lbmass

DRAWN BY: C. Heywood

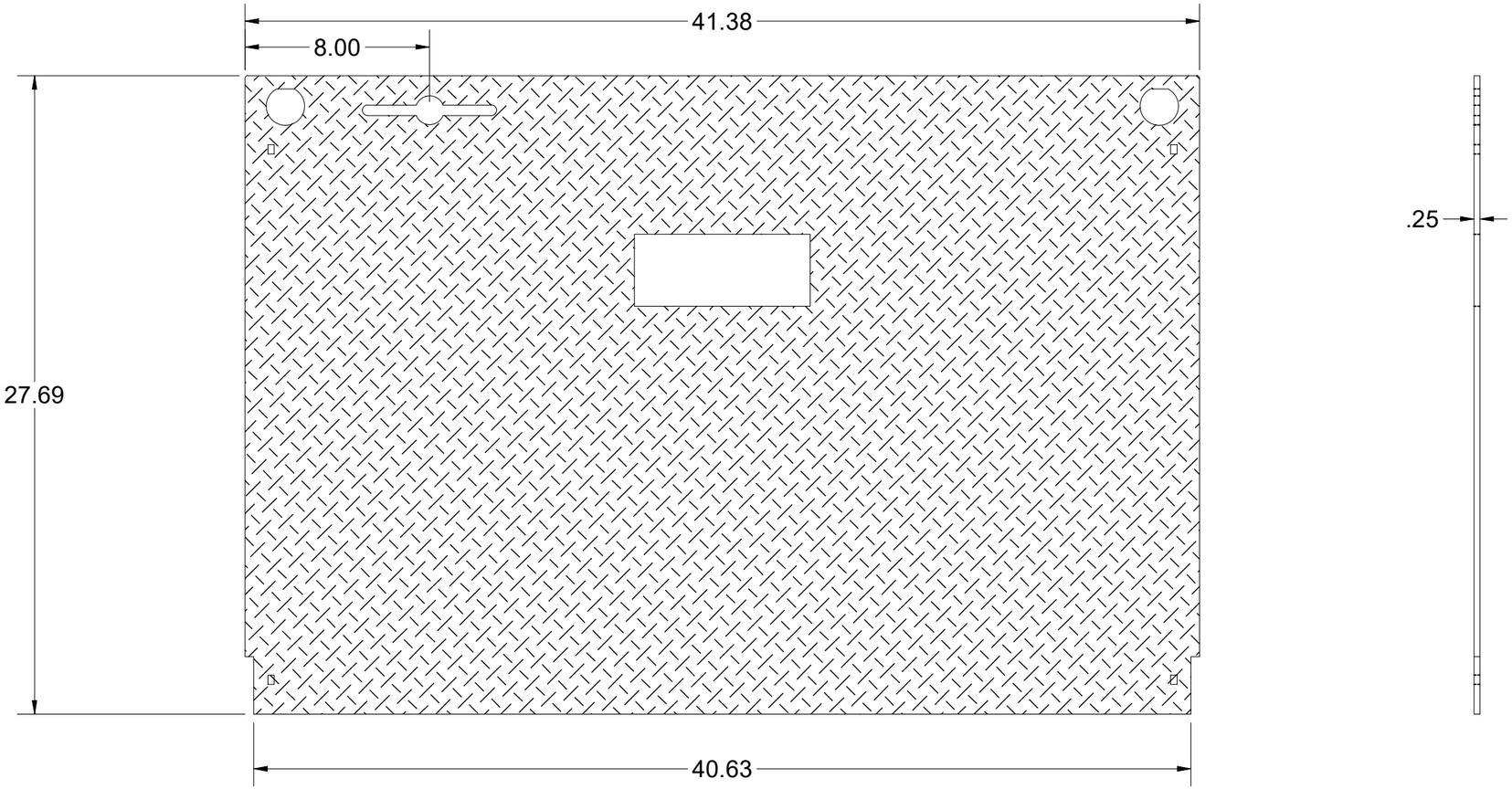
CREATED: 6/26/2025

MODIFIED: 5/1/2026

SHEET: 11 OF 14

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ASYMMETRIC



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: 200102900
Door Component Steel Plate, Top

REV: A-1

WEIGHT: 86.955 lbmass

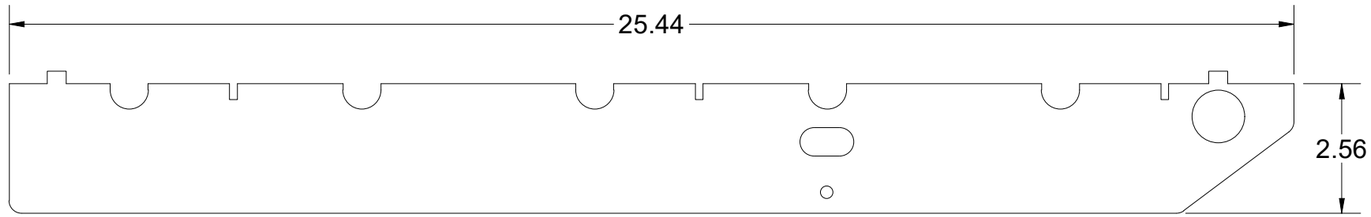
DRAWN BY: C. Heywood

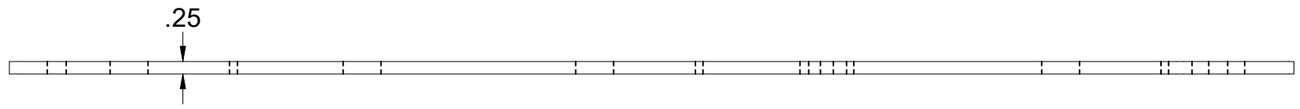
CREATED: 6/26/2025

MODIFIED: 5/1/2026

SHEET: 12 OF 14

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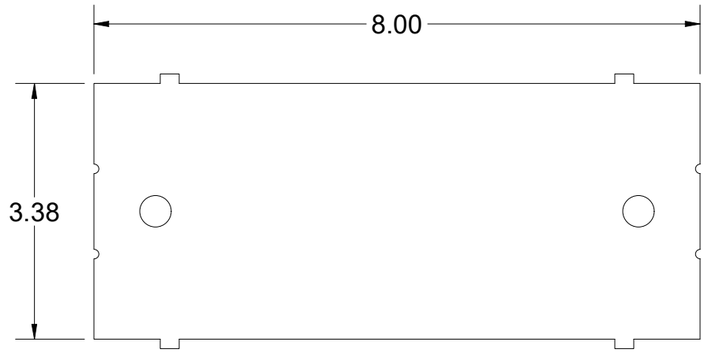
BEND TABLE				MATERIAL IFS: 100007735			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25			
-	-	- 0	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250			

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NAME & DESCRIPTION:	200102901 Door Component Steel Side Bar		REV: A-1
WEIGHT: 4.282 lbmass	DRAWN BY: C. Heywood		SHEET: 13 OF 14
CREATED: 6/26/2025	MODIFIED: 5/1/2026		

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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: 200102907 NAME PLATE BACKING PLATE		REV: A-1
WEIGHT: 1.905 lbmass	DRAWN BY: C. Heywood	SHEET: 14 OF 14
CREATED: 6/26/2025	MODIFIED: 5/1/2026	

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