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NOTES (UNLESS SPECIFIED OTHERWISE):

1.0 DESCRIPTION AND APPLICATION:

1.1 SHEET METAL PART TO BE USED IN A COMMERCIAL PRODUCT (INDOOR USE).

2.0 APPLICABLE DOCUMENTATION:

2.1 INTERPRET DRAWING PER ASME Y14.5-2009 DIMENSIONING AND TOLERANCING STANDARDS.

3.0 MECHANICAL REQUIREMENTS:

3.1 DIMENSIONS ARE IN MILLIMETERS (MAXIMUM MATERIAL CONDITION)

3.2 ALL DIMENSIONS SHOWN SHALL BE CHECKED DURING FIRST ARTICLE INSPECTION. FAI MUST BE APPROVED FOR THE SPECIFIC REVISION OF THIS PART PRIOR TO SHIPMENT OF PARTS.

3.3 FOR GEOMETRY NOT EXPLICITLY DESCRIBED IN DRAWING REFER TO 3D DATABASE.

3.4 DRAWING AND 3D DATABASE REPRESENT FINAL PART AFTER ALL POST PROCESSING, TRIMMING, MACHINING, AND FINISHING.

3.5 DIMENSIONS INDICATED BY (X.XXX) ARE PROCESS CONTROL/MONITORING DIMENSIONS.

3.6 DIMENSIONS IN PARENTHESIS "(X.XXX)" OR MARKED REFERENCE "X.XX REF" ARE DIMENSIONS WITHOUT TOLERANCE AND ARE FOR INFORMATION PURPOSE ONLY.

3.7 GENERAL TOLERANCES:

3.7.1 HOLE SIZE: +/-0.075 MM.

3.7.2 HOLE-TO-HOLE (ON FLAT SURFACE): +/-0.125 MM.

3.7.3 HOLE-TO-EDGE OR EDGE-TO-EDGE (ON FLAT SURFACE): +/- 0.25 MM.

3.7.4 HOLE-TO-BEND OR EDGE-TO-BEND: +/- 0.375 MM.

3.7.5 BEND-TO-BEND: +/- 0.50 MM.

3.7.6 ANGULAR TOLERANCES: +/- 1°

3.8 INSIDE AND OUTSIDE CORNER RADII TO BE 1/2 MATERIAL THICKNESS MIN. (AT LEAST 0.375 MM MIN)

3.9 USE MINIMUM BEND RADII REQUIRED TO FORM WITHOUT CRACKING OR ADDITIONAL WORK UNLESS OTHERWISE SPECIFIED.

3.10 BURR SIDE ON NON-COSMETIC SIDE OR AS INDICATED IN DRAWING.

3.11 COIN ALL EDGES TO 0.25 MM MIN.

3.12 ALL DIMENSIONS APPLY AFTER FINISHING AND PLATING.

3.13 PARTS SHALL BE FREE OF ALL FOREIGN MATERIAL, INCLUDING BUT NOT LIMITED TO: GREASE, DIRT, CHIPS, OIL, AND OTHER CONTAMINANTS.

3.14 PART TO BE LASER ETCHED WITH PART NUMBER, REVISION, AND MATERIAL ID APPROXIMATELY WHERE SHOWN. TEXT SHALL BE 3 MM TALL.

3.15 PART TO BE LASER ETCHED WITH DATE CODE APPROXIMATELY WHERE SHOWN. MARKING TO INDICATE YEAR AND MONTH OF PART FABRICATION. CHANGING THE YEAR/MONTH INDICATORS ARE THE VENDOR'S RESPONSIBILITY. TEXT SHALL BE 5 MM TALL MINIMUM.

3.16 INSTALL HARDWARE PER MANUFACTURER RECOMMENDATION. NO HARDWARE SUBSTITUTIONS PERMITTED WITHOUT PRIOR, WRITTEN APPROVAL FROM PUMP STUDIOS AND/OR VOTINGWORKS.

4.0 TOOLING REQUIREMENTS:

4.1 TOOL DESIGN, IF TOOLING IS REQUIRED, MUST BE APPROVED BY PUMP STUDIOS AND/OR VOTINGWORKS PRIOR TO CONSTRUCTION OF TOOL. COMPREHENSIVE TOOLING DRAWINGS WITH ALL MATERIAL SPECIFIED FOR EACH PART MUST BE SUBMITTED TO PUMP STUDIOS AND/OR VOTINGWORKS FOR APPROVAL.

4.2 TOOL TO BE PROPERTY OF VOTINGWORKS AND TO BE PERMANENTLY MARKED WITH COMPANY NAME, PART NUMBER, PART NAME, ASSET TAG, AND MOLD WEIGHT.

4.3 KNOCKOUTS CAN BE LASER CUT OR PUNCHED AS PER VENDOR CAPABILITIES. CHANGES IN TOLERANCE SHOULD BE APPROVED BY PUMP STUDIOS AND/OR VOTINGWORKS.

5.0 INSPECTION & SHIPPING REQUIREMENTS:

5.1 VERIFY PART SAMPLES CONFORM TO DESIGN REQUIREMENTS USING STANDARD TEST EQUIPMENT AND VISUAL INSPECTION TECHNIQUES.

5.2 PACKAGING FOR SHIPMENT: PART SHALL BE ADEQUATELY PROTECTED TO PREVENT DAMAGE IN TRANSIT AND HANDLING.

5.3 VENDOR TO SUPPLY WITH EACH SHIPMENT: MATERIAL CERTIFICATION, SHIPPER DOCUMENTS WITH PART NUMBER, PART NAME, REVISION, LOT NUMBER, QUANTITY AND P.O. NUMBER.

5.4 PACKAGING LABELS AND MATERIAL TRACEABILITY MUST CONFORM TO UL 746D.

6.0 MATERIAL REQUIREMENTS:

6.1 MATERIAL: Material <not specified>

6.2 THICKNESS: 1.52 MM [0.06 IN]

6.3 VENDOR TO SUBMIT MSDS AND MATERIAL SPECIFICATIONS FOR APPROVAL BY PUMP STUDIOS AND/OR VOTINGWORKS PRIOR TO STAMPING/BENDING/FORMING FIRST ARTICLE PARTS.

6.4 NO CHANGES SHALL BE ALLOWED ON PRODUCTION MATERIAL, REGARDLESS OF WHETHER SUCH CHANGE AFFECTS CHARACTERISTICS, WITHOUT PRIOR EXPLICIT APPROVAL BY PUMP STUDIOS AND/OR VOTINGWORKS.

7.0 FINISH REQUIREMENTS:

7.1 PARTS TO BE DEBURRED TO REMOVE SHARP EDGES..

7.2 PARTS SHALL BE CLEAR CHROMATE COATED PRIOR TO HARDWARE INSTALLATION AND ANODIZATION.

7.3 VENDOR TO SUBMIT FINISHED COLOR SAMPLES TO PUMP STUDIOS AND/OR VOTINGWORKS FOR APPROVAL PRIOR TO PRODUCTION PARTS.

8.0 APPROVALS:

8.1 SUPPLIER IS RESPONSIBLE TO ENSURE THIS PART OR ASSEMBLY IS FULLY COMPLIANT WITH THE EUROPEAN UNION (EU) RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS) DIRECTIVE 2002/95/EC, LATEST REVISION, AT TIME OF SHIPMENT.

8.2 SUPPLIER WILL ALSO FURNISH A CERTIFICATION OF COMPLIANCE (C OF C) WITH FIRST ARTICLES WHEN SPECIFICALLY REQUESTED.

REVIS

DESCRIPTION

CR #

DATE

SUBMITTED BY

A

INITIAL RELEASE

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10/03/2024

GJK

B

ADJUST TO IMPROVE EASE OF ASSY.

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11/15/2024

PAK

3.16

MFG: MCMaster-CARR

P/N: 95185A610

QTY: 21

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3.15

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MFG: PEM

P/N: SO-85.1-6ZI

QTY: 2

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MFG: MCMaster-CARR

P/N: 95185A540

QTY: 2

3.16

MFG: PEM

P/N: SO-85.1-10ZI

QTY: 4

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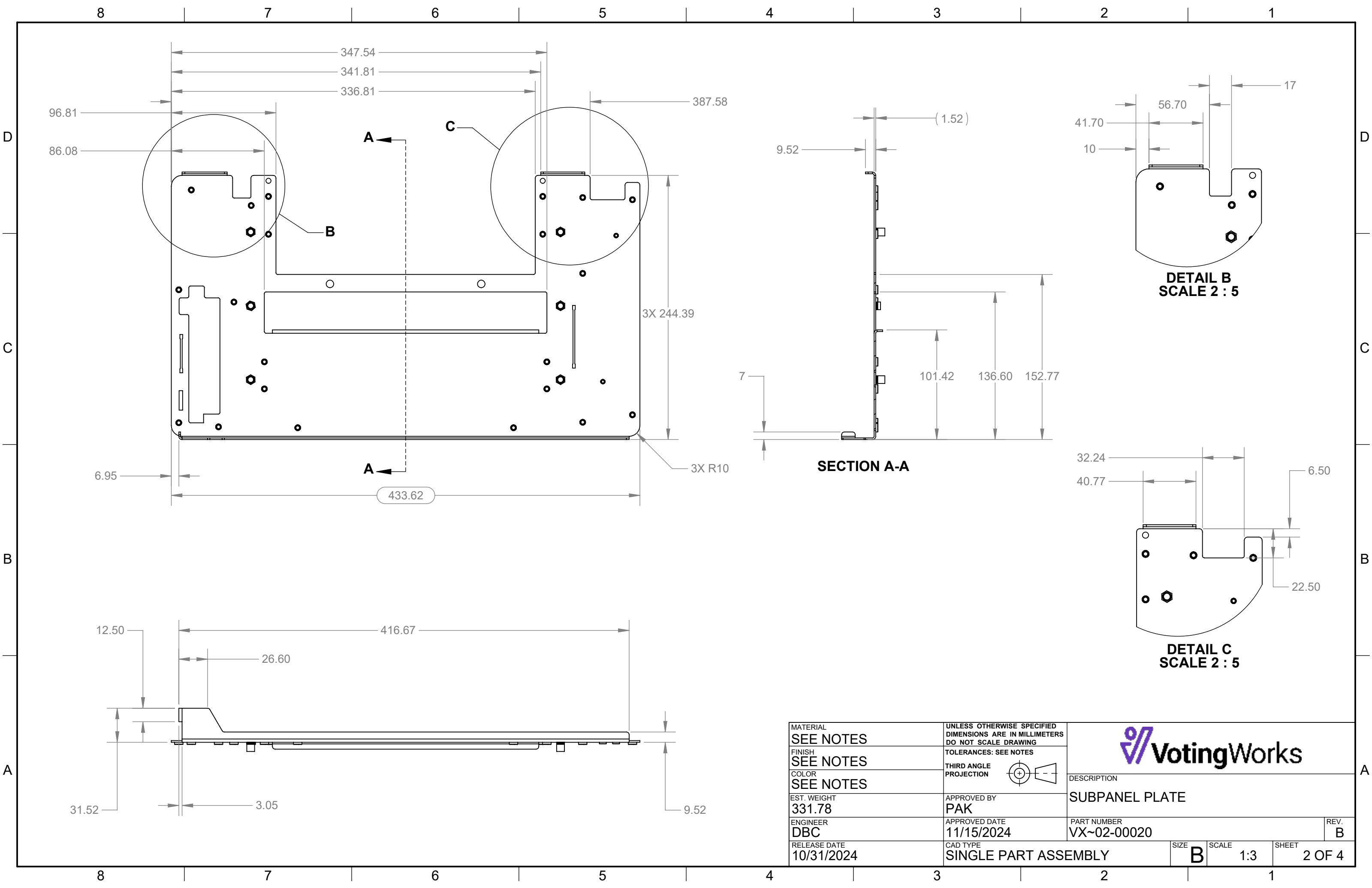
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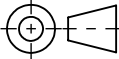
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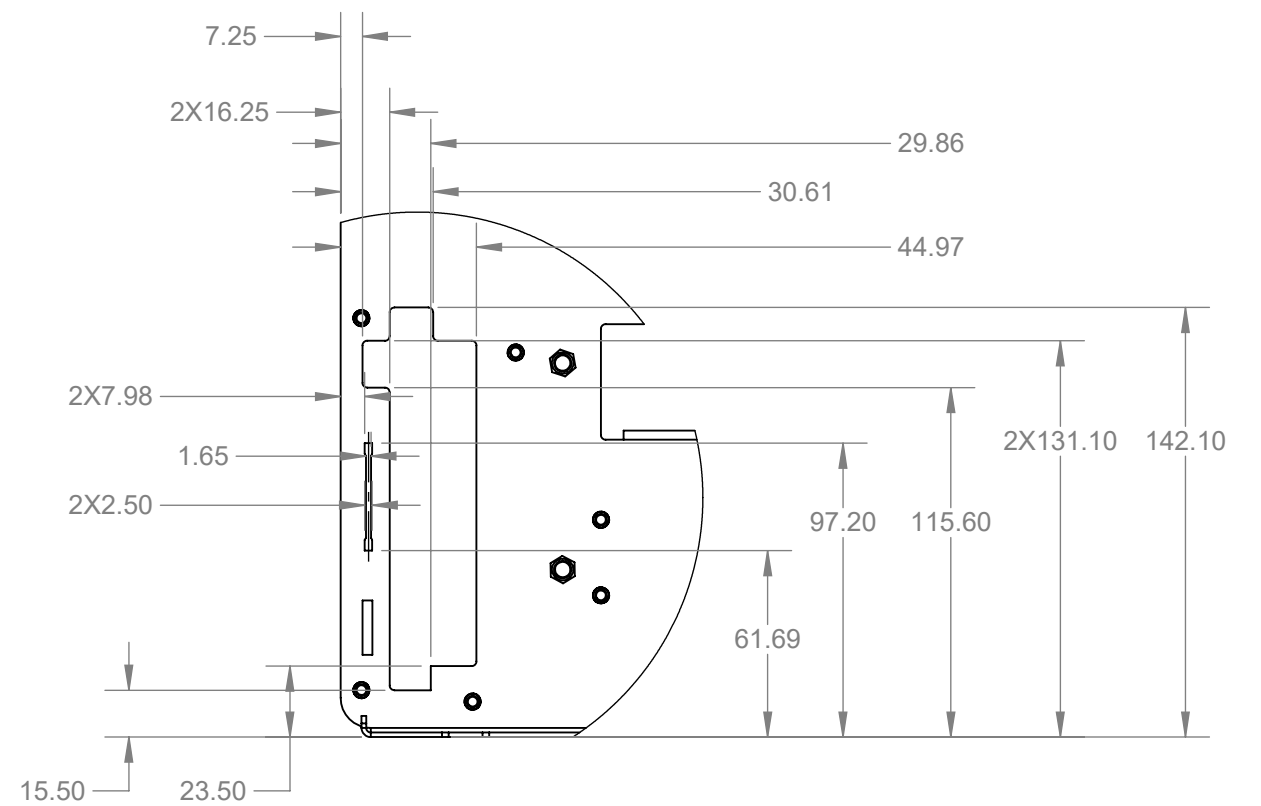
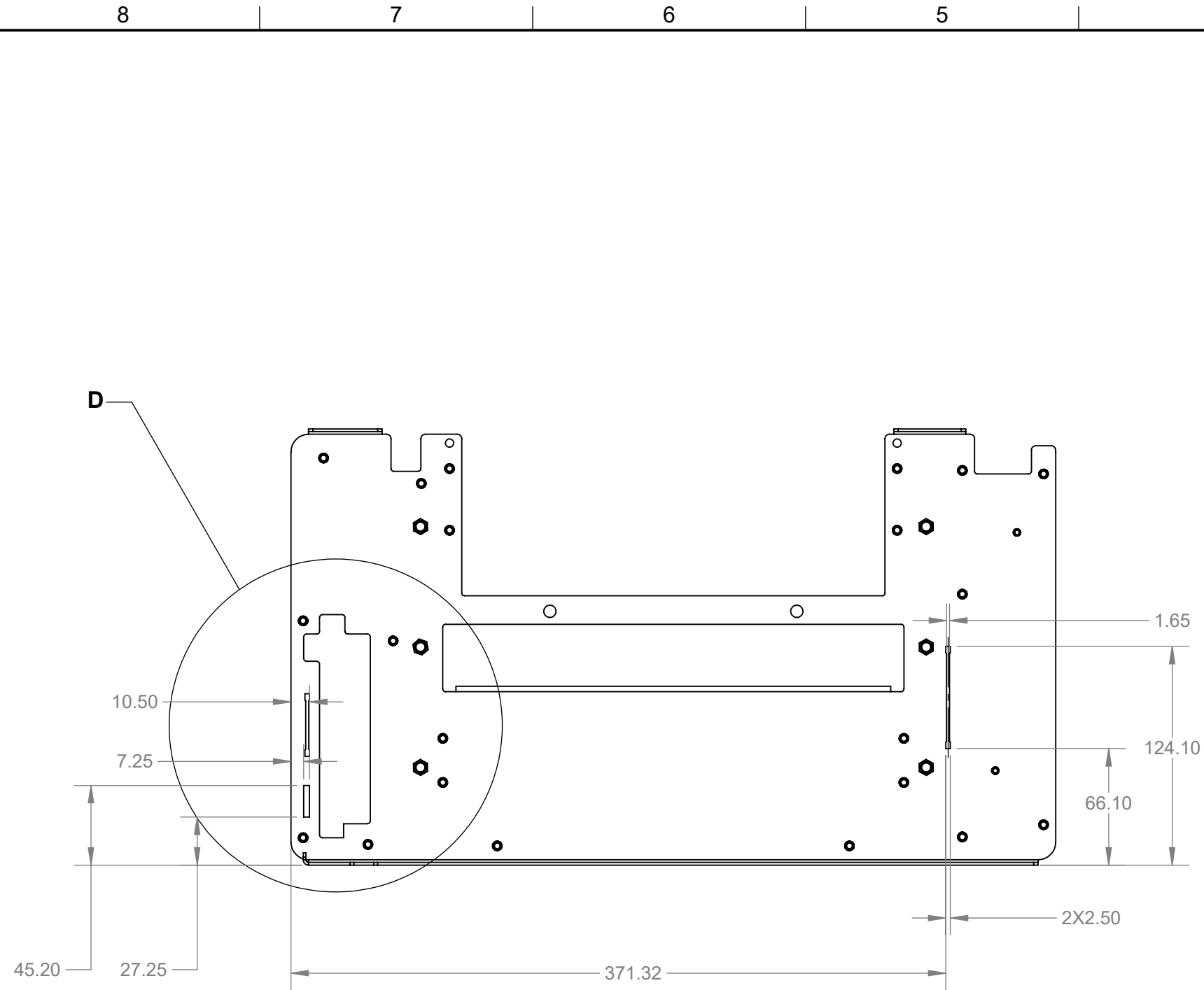
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MATERIAL SEE NOTES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS DO NOT SCALE DRAWING				
FINISH SEE NOTES	TOLERANCES: SEE NOTES				
COLOR SEE NOTES	THIRD ANGLE PROJECTION 	DESCRIPTION			
EST. WEIGHT 331.78	APPROVED BY PAK	SUBPANEL PLATE			
ENGINEER DBC	APPROVED DATE 11/15/2024	PART NUMBER VX~02-00020			REV. B
RELEASE DATE 10/31/2024	CAD TYPE SINGLE PART ASSEMBLY	SIZE B	SCALE 1:3	SHEET 2 OF 4	



**DETAIL D**  
**SCALE 2 : 5**

MATERIAL <b>SEE NOTES</b>	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS DO NOT SCALE DRAWING	 <b>VotingWorks</b>		
FINISH <b>SEE NOTES</b>	TOLERANCES: SEE NOTES			
COLOR <b>SEE NOTES</b>	THIRD ANGLE PROJECTION			
EST. WEIGHT <b>331.78</b>	APPROVED BY <b>PAK</b>			
ENGINEER <b>DBC</b>	APPROVED DATE <b>11/15/2024</b>	DESCRIPTION <b>SUBPANEL PLATE</b>		
RELEASE DATE <b>10/31/2024</b>	CAD TYPE <b>SINGLE PART ASSEMBLY</b>	PART NUMBER <b>VX~02-00020</b>	REV. <b>B</b>	
		SIZE <b>B</b>	SCALE <b>1:3</b>	SHEET <b>3 OF 4</b>

