



THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
 PROCUREMENT SERVICES
 301 SPARKMAN DRIVE
 HUNTSVILLE, ALABAMA 35899
 PHONE (256) 824-6484

DATE
 01/29/2016

BID NUMBER
B002405

RESPONSE DUE BY:

2/16/2016

1:30 PM

ALL BIDS WILL BE PUBLICLY OPENED ON THE OPENING DATE DESIGNATED AT THE UNIVERSITY OF ALABAMA IN HUNTSVILLE, PROCUREMENT SERVICES, BUSINESS SERVICES BLDG., HUNTSVILLE, ALABAMA 35899. BIDS RECEIVED AFTER THE SPECIFIED TIME ON THE OPENING DATE WILL NOT BE CONSIDERED.

WHEN USING FEDEX, UPS, OR ANY EXPRESS PACKAGING/SHIPPING, THE BID NUMBER MUST BE CLEARLY PRINTED ON THE AIR BILL.

REQUEST FOR FORMAL BID

CONTACT
 PAMELA HURLEY

PHONE
 256-824-6675

VENDOR NO.
 «vendornum»

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ALL BIDS MUST BE SIGNED, SEALED, AND RETURNED IN AN ENVELOPE WITH THE BID NUMBER AND OPENING DATE NOTED ON FRONT. FORWARD ALL BIDS TO THE ADDRESS INDICATED ABOVE. FAILURE TO COMPLY WILL RESULT IN A "NO BID" RESPONSE IN ACCORDANCE WITH ALABAMA COMPETITIVE BID LAW 41-16-24 sub-part b.

THE ABOVE BID NUMBER MUST APPEAR ON ALL BIDS AND RELATED CORRESPONDENCE

OR EQUAL, REFER TO GENERAL CONDITIONS ON ATTACHED SHEET

NO	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	EXTENSION
01			THE UNIVERSITY OF ALABAMA IN HUNTSVILLE REQUESTS BIDS FOR AN EXHAUST ASSEMBLY AS PER THE SPECIFICATIONS.		
			NO BID WILL BE ACCEPTED BY FAX OR EMAIL		
			AWARD: NO AWARD INFORMATION WILL BE MADE AVAILABLE BY TELEPHONE, FAX, MAIL, OR EMAIL. ONCE THE BID IS AWARDED, THE AWARD INFORMATION AND TABULATION WILL BE POSTED TO OUR WEBSITE:		
02			HTTP://WWW.UAH.EDU/BUSINESS-SERVICES/VENDORS/BID-OPPORTUNITIES		

SHOULD A PURCHASE ORDER BE ISSUED, THE FOREGOING AND THE TERMS AND CONDITIONS ON THE ATTACHED SHEET SHALL BE APPLICABLE AND BINDING UPON THE VENDOR.
 I ACKNOWLEDGE THAT I HAVE SIGNATURE AUTHORITY TO SIGN ON BEHALF OF THE COMPANY AND HEREBY AGREE TO ALL GENERAL CONDITIONS OF THIS BID REQUEST.

TOTAL →

SIGNATURE _____
 COMPANY REPRESENTATIVE

DATE _____
 An Affirmative Action/Equal Opportunity Institution

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE requests bids for an **Exhaust Assembly** listed below per the specification below:

Bid Prices are to include all shipping charges. (FOB: Destination)

Delivery may be a factor in determining the award of this bid. Quote earliest possible delivery after receipt of purchase order:

The University of Alabama in Huntsville reserves the right to increase or decrease quantities as needed according to availability of funds.

The University Reserves the right to accept or reject any or all bids and is not necessarily bound to accept the lowest bid if that bid is contrary to the best interest of the University. (See GENERAL CONDITIONS 1. AWARD)

NOTE: For information regarding bid responses, it is the bidder's responsibility to provide in detail clear proof that the products they are bidding on are equal to or better than the requirements of the invitation. The bidder is responsible to clearly and specifically indicate the product being offered and to provide sufficient descriptive literature, catalog cuts, and technical details to enable UAH to determine if the product offered meets the requirement of the invitation. Normally as in competitive sealed bidding only, the information furnished with the bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a bid nonresponsive. Unless the bidder clearly indicates in its bid that the product offered is an "EQUAL" product, such bid will be considered to offer the brand name product referenced in the invitation. The University of Alabama in Huntsville will be sole judge of "EQUAL" items submitted for bid.

"Any contract resulting from this request will be made available to other eligible entities. This may include but is not limited to; The University of Alabama System, comprised of The University of Alabama; The UAB Enterprise, consisting of The University of Alabama at Birmingham, the UAB Health System and their related foundations and affiliates , and The University of Alabama, Tuscaloosa, AL; and other state entities. Contracts resulting from the award of this request cover shipments by any entity listed above. Each entity will generate its own purchase orders, payments, etc. and delivery must be made according to the instructions on the purchase order.

The thrust of the contract is to obtain greater volume price discounts by combining the volume of purchases from participating entities within the State of Alabama."

QUESTIONS: ALL QUESTIONS ARE TO BE DIRECTED TO PAMELA HURLEY VIA EMAIL pkh0002@uah.edu, UNLESS OTHERWISE STATED IN THE SPECIFICATION.

BID SPECIFICATIONS

The project contains two sections; 1) Exhaust Structure Assembly, and 2) Exhaust Thermal Assembly. [This is a prototype effort for which we will select 1 to 2 suppliers to build and deliver a prototype unit. There is a potential run of 600+ units]. Drawings are attached for each assembly. Suppliers can bid on item 1, item 2, or both.

1.) Exhaust Structure Assembly

Manufacture welded assemblies (sheet metal, tubing, angles) to fabricate 4 separate components and package them with fasteners, gaskets, and other components as detailed in the drawings. Major components will be made of either 321 SS or 304 SS. Dimensions, material call-outs, and recommended sources for COTS components and insulation are contained in the drawings.

Plenum:

Plenum Top Frame Assembly (1025978)

Plenum Frame Assembly (1025979)

Plenum Elbow Assembly (1032304)

Ejector:

Ejector Assembly (1032328)

Ejector Sheet Metal Assembly (1032329)

Ejector Top Frame Assembly (1032312)

Ejector Frame Assembly (1032313)

Quotes should include, for the prototype and production units, line items for each assembly with individual lines for each subassembly, brief descriptions of any non-recurring engineering costs, and lead time.

2.) Exhaust Thermal Assembly

Manufacture insulation blankets enclosed in embossed 321 SS foil to fit structures being procured separately. Installation components and insulation are contained in the drawings.

Drawings:

Plenum Insulation Assembly (1032308)

Ejector Insulation Assembly (1032344)

Quotes should include, for the prototype and production units line items for each assembly, brief descriptions of any non-recurring engineering costs, and lead time.

FIRST ARTICLE PROTOTYPE QUOTATION SHEET

Item	Description	Qty	Total Price	
1	<u>Exhaust Structure Assembly</u> PROTOTYPE Plenum: Plenum Top Frame Assembly Plenum Frame Assembly Plenum Elbow Assembly	1	\$	
2	Shipping	1		
3	Lead Time: _____			
4	<u>Exhaust Thermal Assembly</u> PROTOTYPE Ejector: Ejector Assembly Ejector Sheet Metal Assembly Ejector Top Frame Assembly Ejector Frame Assembly	1	\$	
5	Shipping	1		
6	Lead Time: _____			
7	<u>Exhaust Thermal Assembly</u> <u>Drawings:</u> Plenum Insulation Assembly (1032308) Ejector Insulation Assembly (1032344)	1	\$	
8	Shipping	1		
9	Lead Time: _____			
			Total	\$

600 UNITS QUOTATION SHEET

Item	Description	Qty	Unit Price	Total Price	
1	<u>Exhaust Structure Assembly</u> Plenum: Plenum Top Frame Assembly Plenum Frame Assembly Plenum Elbow Assembly	600	\$	\$	
2	Shipping	1		\$	
3	Lead Time: _____				
4	<u>Exhaust Thermal Assembly</u> Ejector: Ejector Assembly Ejector Sheet Metal Assembly Ejector Top Frame Assembly Ejector Frame Assembly	600	\$	\$	
5	Shipping	1		\$	
6	Lead Time: _____				
7	<u>Exhaust Thermal Assembly</u> <u>Drawings:</u> Plenum Insulation Assembly (1032308) Ejector Insulation Assembly (1032344)	1	\$	\$	
8	Shipping	1		\$	
9	Lead Time: _____				
				Total	\$

GENERAL CONDITIONS

1. **Award:** The University of Alabama in Huntsville reserves the right to accept or to reject any or all bids and is not necessarily bound to accept the lowest bid if that bid is contrary to the best interest of the University. In making an award, intangible factors such as bidder's service, integrity, facilities, equipment, reputation, and past performance will be weighed along with the quality displayed in the samples submitted. Bids may be awarded either item by item, in products groups, or all or none, whichever appears to be in the best interest of the University. The University reserves the right to waive any or all formalities.
2. **Bid Withdrawal:** No bids may be withdrawn without approval from The University of Alabama in Huntsville Procurement Services. Any requests for withdrawal must be in writing to Procurement Services within five (5) days after opening date with justification for reason of withdrawal. More than two (2) such requests could result in removal from our bid list. No bid may be withdrawn after the issuance of purchase order. If a withdrawal is made after the purchase order is issued, the vendor will be considered in default. Refer to "Default of Contractor".
3. **Prices and Payment Terms:** Bidders should quote applicable cash discounts. The University will not take into consideration in bid evaluation any cash discount of less than thirty (30) days duration. However, we will take advantage of all discounts for which we are eligible. Identify these discounts in your bid response. Bids containing "payment in advance" or "COD" requirements may be rejected.
4. **Applicable Law:** It is agreed this quotation is valid to the extent that it does not violate the constitution or the laws of the State of Alabama.

Bidder represents and warrants that all article and services covered by this bid meet or exceed the safety standards established and promulgated under the Federal Occupational Safety and Health Act of 1970, No. 2006, and its regulations in effect or proposed as of the date of this bid.

The furnishing of materials, supplies, equipment or service to The University of Alabama in Huntsville under this purchase order, contract, solicitation for bids, or construction specification constitutes assurance by the vendor or contractor of his compliance with applicable provisions of and pertinent regulations promulgated under Executive Order 11246, date September 28, 1965 issued by the President of the United States of America, and Public Law 88-352, 88th Congress, the "Civil Rights Act of 1964".

5. **Non-Collusion:** Any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid at a fixed price or to refrain from bidding, or otherwise, shall render the bids of such bidders void. Each bidder certifies that he has not been a party to such an agreement by signing this bid.
6. **New Products:** Unless specifically called for in the bid, all products for purchase must be new, never previously used, and the current model and/or packaging. No remanufactured, demonstrator, used, or irregular product will be considered for purchase unless otherwise specified in the bid. The manufacturer's standard warranty will apply unless otherwise specified in the bid. All requests should be supplied complete, ready to be installed, including all cabling and connectors where applicable.
7. **Bonds:** Bid and performance security bond, when required will be indicated.
8. **Bid Submission:** Failure to submit a bid on the official UAH form provided for that purpose shall be a cause for rejection of the bid. Return of the complete document is required. Modification of or additions to any portion of the solicitation may be cause for rejection of the bid; however, UAH reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.

All information shall be entered in ink or typewritten in the appropriate space on the form. Mistakes may be crossed out and corrections inserted before submission of your bid. Corrections shall be initialed in ink by the person signing the bid.

All bids must be signed. Failure to do so will result in rejection of bid.

9. **Delivery:** Time of delivery shall be stated as the number of calendar days following receipt of the order by the vendor, to receipt of the goods by The University of Alabama in Huntsville.

Delivery time may be a criterion in awarding bids. Specify earliest possible delivery after receipt of order.

Failure to deliver within the time vendor specified in the bid will constitute a default and may cause cancellation of the contract. Refer to "Default of Contractor".

All prices quoted are to be F.O.B. delivered to The University of Alabama in Huntsville, Central Receiving Building, 301 Sparkman Drive, Huntsville, Alabama, 35899 (unless another F.O.B. point is stated by the University on bid form). The successful bidder must assume all responsibility for damage in transit. When installation is required, it will be stated. If you are not quoting a delivered price, indicate your shipping point, and provide shipping cost for evaluation purposes.

10. **Bid Terms:** Show unit prices, extensions, and total price. In the event of a discrepancy between the unit price and the extension, the unit price shall govern. Bids shall remain firm for minimum thirty (30) days from date of bid opening and any exception must be clearly stated.
11. **Bid Opening:** Bidders may attend the bid opening, but no information or opinions concerning the ultimate award will be given at the bid opening or during the evaluation process. After the public opening of this bid, the results will not be available to bidders not attending the opening until after an award is made. Bid tabulations can be reviewed by accessing Procurement Services website at <http://uah.edu/business-services>. Click on "Vendors" then "Bid Awards".
12. **Bids are Public Record:** All bids become a matter of public record at bid award. The University accepts no responsibility for maintaining confidentiality of any information submitted with bid whether labeled confidential or not.
13. **Standards of Quality:** When a material, article or piece of equipment is identified in these specifications by reference to manufacturer's or vendor's name, trade name, catalog and stock numbers, etc., it is intended merely to establish a standard; and, any material, article or equipment of other manufacturer and vendor which will perform equally the duties imposed by the general design, provided the material, article, or equipment proposed, is in the opinion of the Purchasing Agent of equal substance and function. It shall not be purchased or installed by the contractor without the Purchasing Agents' written approval.
- The bidder is responsible to clearly and specifically indicate the product being offered and to provide sufficient descriptive literature, catalog cuts and technical detail to enable UAH to determine if the product offered meets the requirements of the invitation. Normally in competitive sealed bidding only the information furnished with the bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a bid nonresponsive. Unless the bidder clearly indicates in its bid that the product offered is an "Equal" product, such bid will be considered to offer the brand name product referenced in the invitation. The University of Alabama in Huntsville will be sole judge of EQUAL items bid.
14. **Vendor Authorization:** Vendor must be an authorized distributor/agent to sell products proposed in this bid request. When it is deemed to be in the best interest of the University, Procurement Services may request an on-site premise visit to examine the facility.
15. **Default of Contractor:** Where the University has determined the contractor to be in default, the University reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.
16. **Fiscal Funding Clause:** The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. If the legislature fails to appropriate sufficient monies to provide the continuation of a contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

17. **Contract Cancellation:** Procurement Services has the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including, but not limited to, the following: (1) failure to deliver within the contract; (2) failure of the product or service to meet specifications, conform to sample quality, or to be delivered in good condition; (3) misrepresentation by the contractor; (4) fraud, collusion, conspiracy, or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; and (6) any other breach of contract.
18. **Warranties:** Should merchandise described on this bid contain a manufacturer's warranty, bidders must state the warranty terms in the space provided on the bid. Bids offered for merchandise when no warranty applies must clearly state: "NO WARRANTY COVERAGE". Warranty information may be criteria in making this award. Failure of bidders to furnish this data may cause rejection of the complete bid as being non-responsive.
19. **Disclosure Statement:** The successful bidder will be required to file with Procurement Services a disclosure statement of relationship between contractors/grantees and employees/officials of the University. This form must be completed prior to issuance of the Purchase Order by The University of Alabama in Huntsville.
20. **State of Alabama Immigration Law:** Pursuant to the State of Alabama Immigration Law, by signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.
21. **Restrictions On Communications with University Staff:** From the issue date of this Solicitation until a Contractor is selected and a contract award is made, Bidders are not allowed to communicate about the subject of the bid with any University administrator faculty, staff, or members of the Board of Trustees except:
 - The Procurement Services representative, any University Procurement Official representing the University administration, or others authorized in writing by the Procurement Office and
 - University Representatives during Bidder presentations.

If violation of this provision occurs, the University reserves the right to reject the Bidder's response to this Solicitation.

Note: In order for an alternate bid to be considered, bidders must supply current catalogs or brochures, including pictorials and specifications.

F.O.B. Point	TERMS	WARRANTY
UAH DESTINATION		
ESTIMATED DELIVERY	YOUR REFERENCE NO.*	QUOTATION EFFECTIVE UNTIL
BUSINESS CLASSIFICATION (see note below):	EMAIL ADDRESS:	

* Your company reference number, if applicable with this bid quotation.

NOTE: Please indicate your company classification in the appropriate box above: Small Business (**SB**), a Small Disadvantaged Business (**SD**), a Black Small Disadvantaged Business (**BD**), a Woman-Owned Small Business (**WB**), a Woman-Owned Small Disadvantaged Business (**WD**), a Black Woman-Owned Small Disadvantaged Business (**BW**), a Large Business (**LB**), an Individual (**IN**), Educational (**ED**), Non-Profit (**NP**), a Labor Surplus Area Concern (**LS**), Disabled Veteran-Owned Small Business (**DV**), Veteran-Owned Small Business (**VS**), Historically Underutilized Business Zone (**UZ**), or a Governmental Agency (**GV**).

Certification Pursuant To Act No. 2006-557

Alabama Law (Section 41-4-116, Code of Alabama 1975) provides that every bid submitted and contract executed shall contain a certification that the vendor, contractor, and all of its affiliates that make sales for delivery into Alabama or leases for use in Alabama are registered, collecting, and remitting Alabama state and local sales, use, and/or lease tax on all taxable sales and leases into Alabama. By submitting this bid, the bidder is hereby certifying that they are in full compliance with Act No. 2006-557, they are not barred from bidding or entering into a contract pursuant to 41-4-116, and acknowledges that the awarding authority may declare the contract void if the certification is false.

COMPANY NAME (TYPE OR PRINT)

TELEPHONE NUMBER

SIGNER'S NAME (TYPE OR PRINT)

FAX NUMBER

SIGNATURE

DATE

The University of Alabama in Huntsville prohibits the installation of asbestos on its campus. Suppliers and contractors will not supply any equipment, material, or supplies, which contain asbestos without prior written approval.

Failure to designate Bid Number and Opening Date on the outside of your sealed envelope containing your bid and more than one bid submitted in this envelope will result in a "No Bid" response in accordance with Alabama Competitive Bid Law 41-16-24 sub-part b.

The University of Alabama in Huntsville will not accept faxed bids.

Any product that fails to meet the specifications, performance requirements or compatibility requirements will be rejected and returned to the vendor at no cost to the University.

State of Alabama Immigration Law

If the successful bidder is located in Alabama or employs an individual or individuals within the State of Alabama, the successful bidder shall provide a copy of its Employment Eligibility Verification (E-Verify) company profile. To expedite the ordering process, this document may be submitted with the bid response.

If the successful bidder is not located in the State of Alabama and does not employ an individual or individuals within the State of Alabama, the successful bidder shall complete and return the Certification of Compliance form included with this Request for Price Quotation (E-Verify company profile is not required). To expedite the ordering process, this document may be submitted with the bid response.

If you are not currently enrolled in E-Verify, follow these instructions:

- Log onto www.uscis.gov/everify
- Click “Getting Started” for information about the program, requirements, and enrollment process.
- Click “Enroll in E-Verify” and begin enrollment process.
- When enrollment process is complete, click “Edit Company Profile” and print this one-page document.
- This one-page document must be submitted prior to a contract or purchase order being issued.
- For further assistance please consult the [E-Verify Quick Reference Guide](#).

If you have previously enrolled in E-Verify, follow these instructions:

- Log onto www.uscis.gov/everify
- Click “Edit Company Profile” and print this one-page document.
- This one-page document must be submitted prior to a contract or purchase order being issued.



CERTIFICATION OF COMPLIANCE WITH THE STATE OF ALABAMA IMMIGRATION LAW

The undersigned officer of _____ (Company)
certifies to the Board of Trustees of the University of Alabama that the Company is not located in
Alabama and that the Company does not employ an individual or individuals within the State of
Alabama.

SIGNATURE OF COMPANY OFFICER

PRINT COMPANY NAME

PRINT NAME OF COMPANY OFFICER

PRINT TITLE OF COMPANY OFFICER

DATE

**DISCLOSURE STATEMENT OF
RELATIONSHIP BETWEEN CONTRACTORS/GRANTEES AND
EMPLOYEES/OFFICIALS OF UA/UAB/UAH/UAS
(THE "UNIVERSITY OF ALABAMA SYSTEM")**

1. Contract # **B002405**

2. Name of Contractor/Grantee _____
Address _____

Phone _____

3. Nature of contract/grant
 Exhaust Assembly

4. Does the contractor/grantee have any relationship with an employee or official of the University, or a family member of such employee or official, that will enable such employee or official, or his/her family member, to benefit from this contract/grant? If so, please state the names, relationships, and nature of the benefit.

(For employees of the University, family members include spouse and dependants. For members of the Board of Trustees (officials), family members include spouse, dependants, adult children or their spouses, parents, in-laws, siblings, and their spouses.)

Certification Pursuant To Act No. 2006-557
Alabama Law (Section 41-4-116, Code of Alabama 1975) provides that every bid submitted and contract executed shall contain a certification that the vendor, contractor, and all of its affiliates that make sales for delivery into Alabama or leases for use in Alabama are registered, collecting, and remitting Alabama state and local sales, use, and/or lease tax on all taxable sales and leases into Alabama. By submitting this bid, the bidder is hereby certifying that they are in full compliance with Act No. 2006-557, they are not barred from bidding or entering into a contract pursuant to 41-4-116, and acknowledges that the awarding authority may declare the contract void if the certification is false.

This disclosure form will be available for public inspection upon request.

The above information is true and accurate, to the best of my knowledge.

Signature of Authorized Agent

Date

This form must be completed and returned before any contract(s) will be issued by the University.

D

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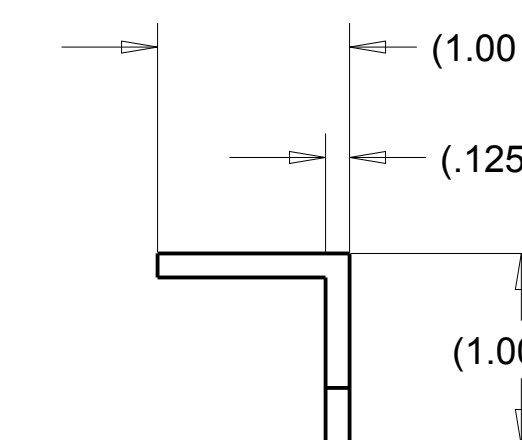
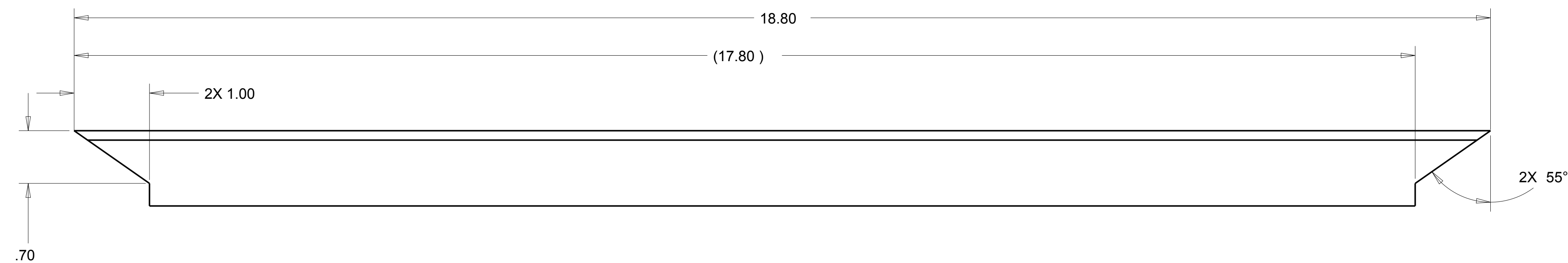
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-08

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

D

CAGE CODE

81996

DWG NO

1025979

REV

X

SCALE

1.000

WEIGHT

- LBS

SHEET

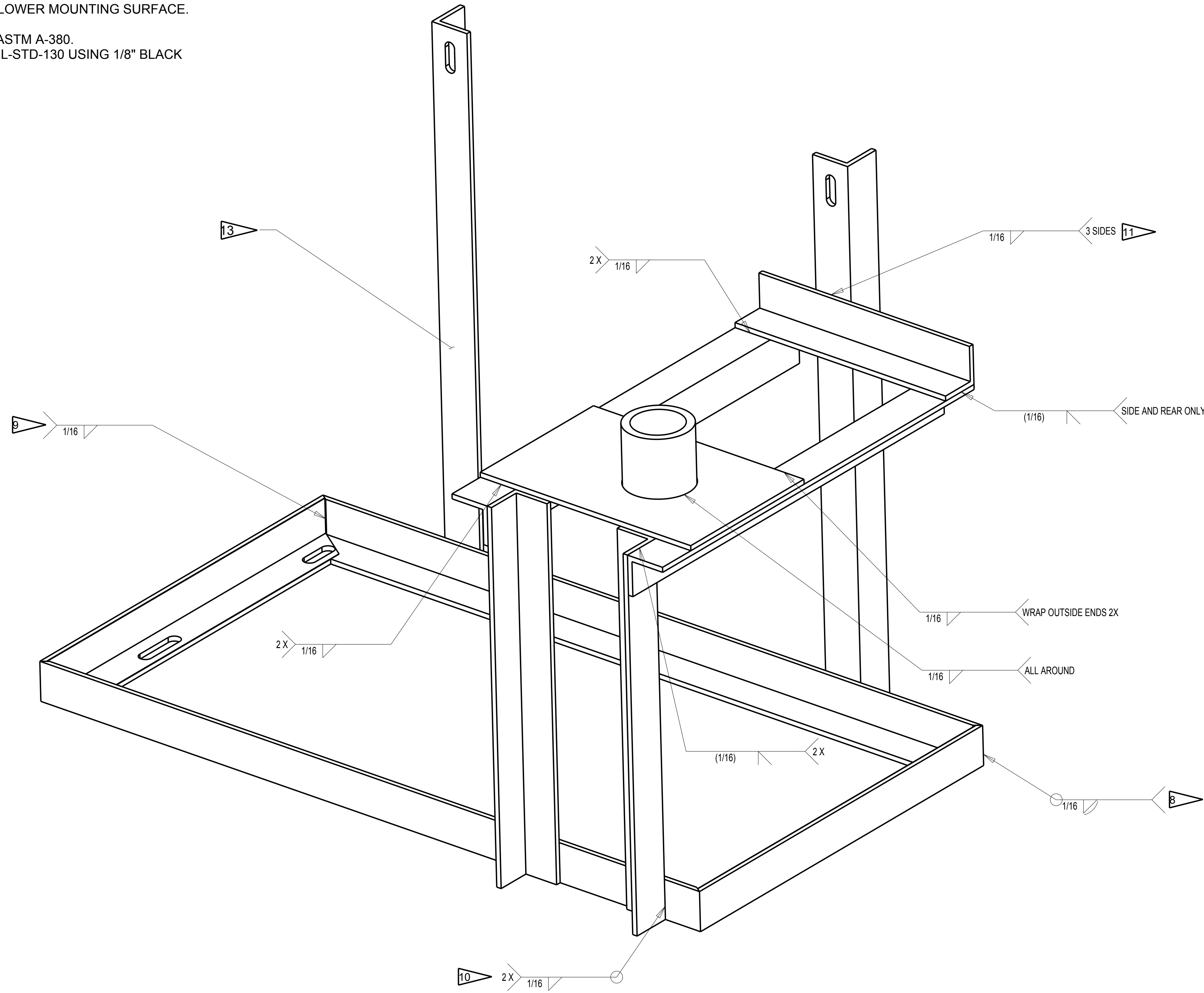
10 OF 11

NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. SOME HIDDEN LINES REMOVED FOR CLARITY.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
4. SURFACE FINISH OR BETTER.
5. ALL WELDING NOTES AND SYMBOLS IN ACCORDANCE WITH AWS A2.4.
6. WELD ALL ACCESSIBLE JOINTS PER AWS-D17.1. VISUALLY INSPECT ONLY.
7. MATERIAL: 304 STAINLESS STEEL PER ASTM-A276, 0.125" THICK STOCK SHEET AND 1.00" X 1.00" X .125" STOCK ANGLE, 304 STAINLESS STEEL PER ASTM-A276, 0.125" THICK STOCK SHEET.
8. EXCEPT INSIDE CORNERS. MOUNTING SURFACE TO BE GROUND FLUSH.
9. TYPICAL TO ALL INSIDE CORNERS.
10. WELDS TO BE GROUND FLUSH ON LOWER MOUNTING SURFACE.
11. UNDERSIDE NOT REQUIRED.
12. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
13. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-

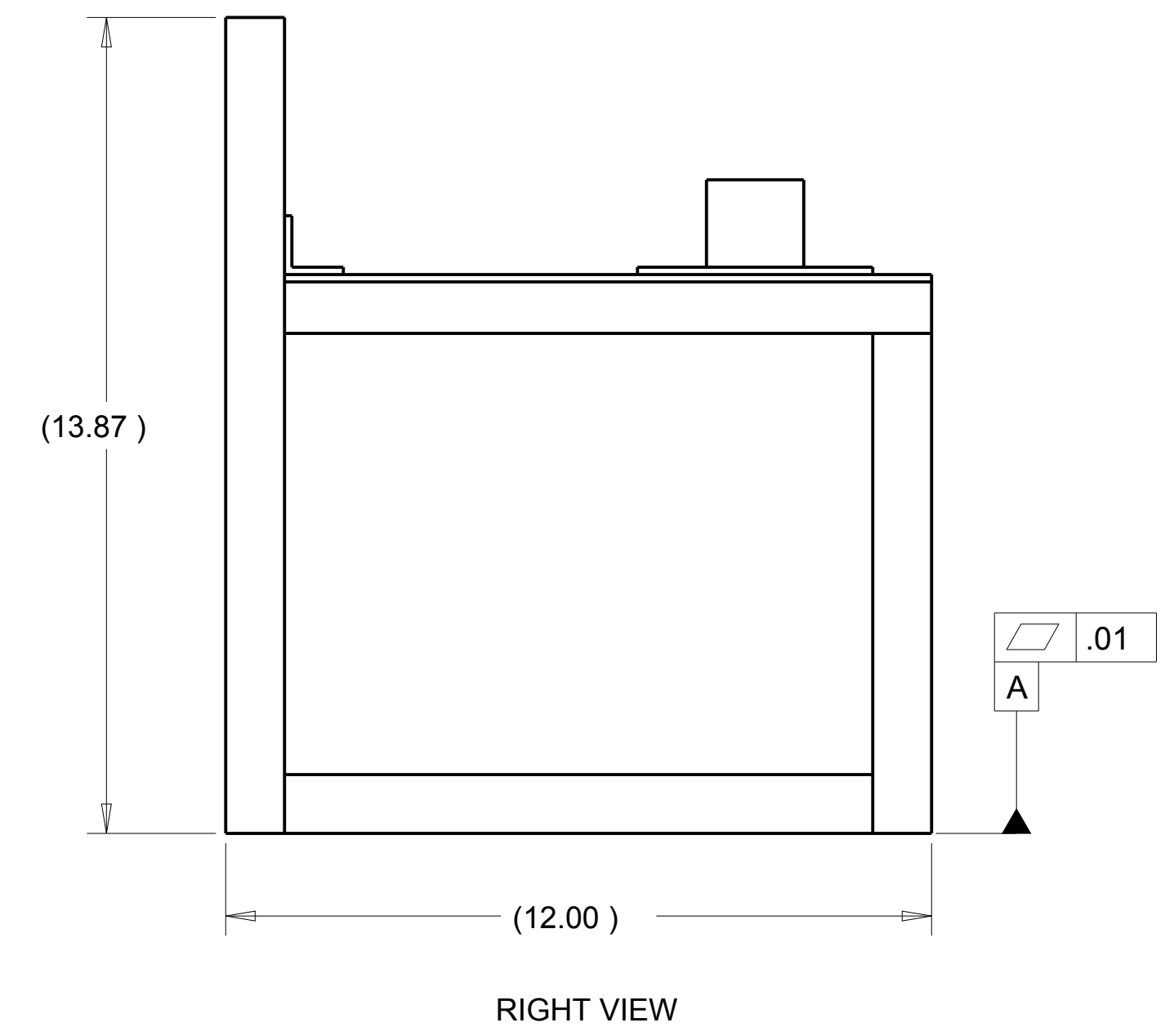
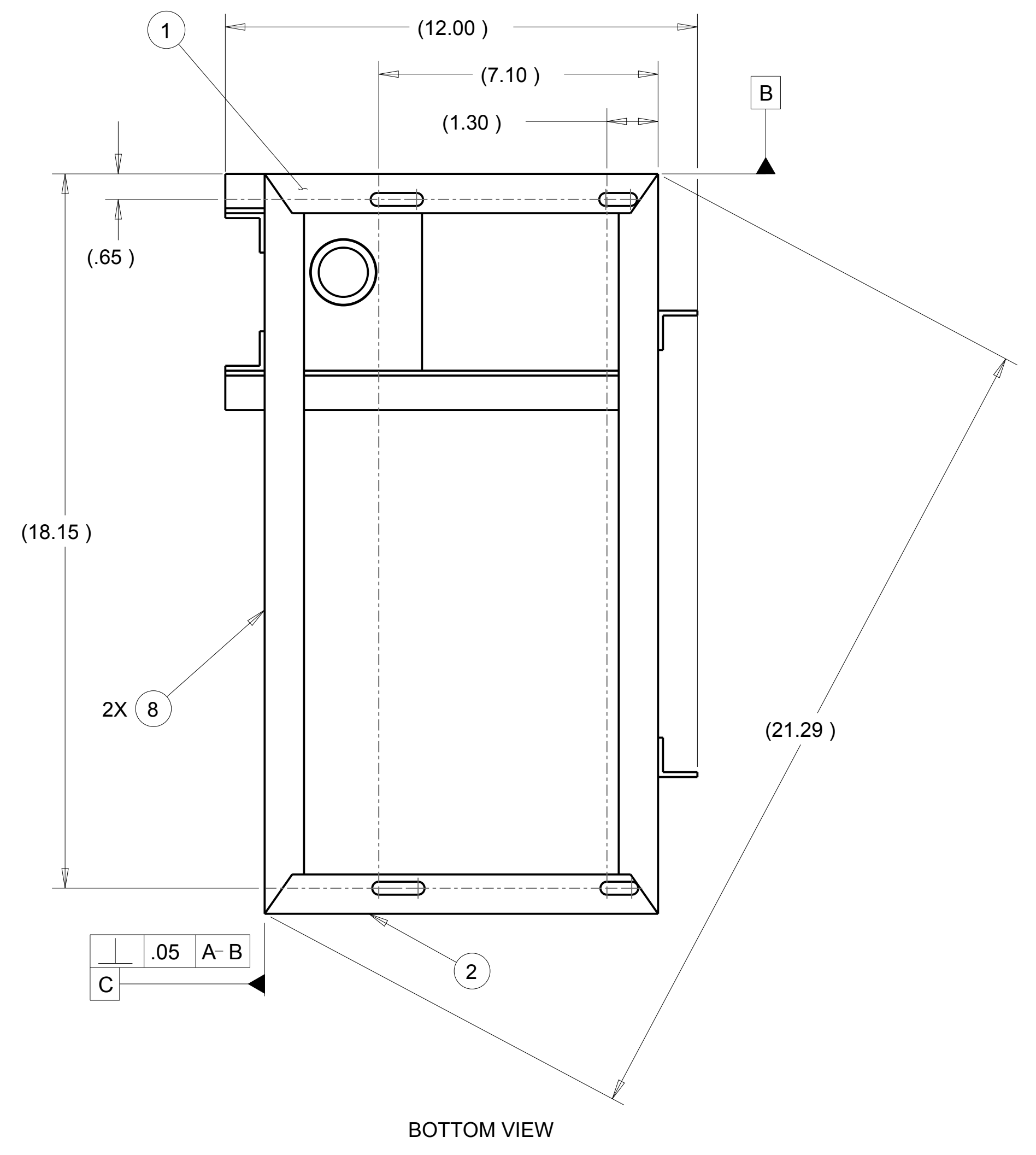
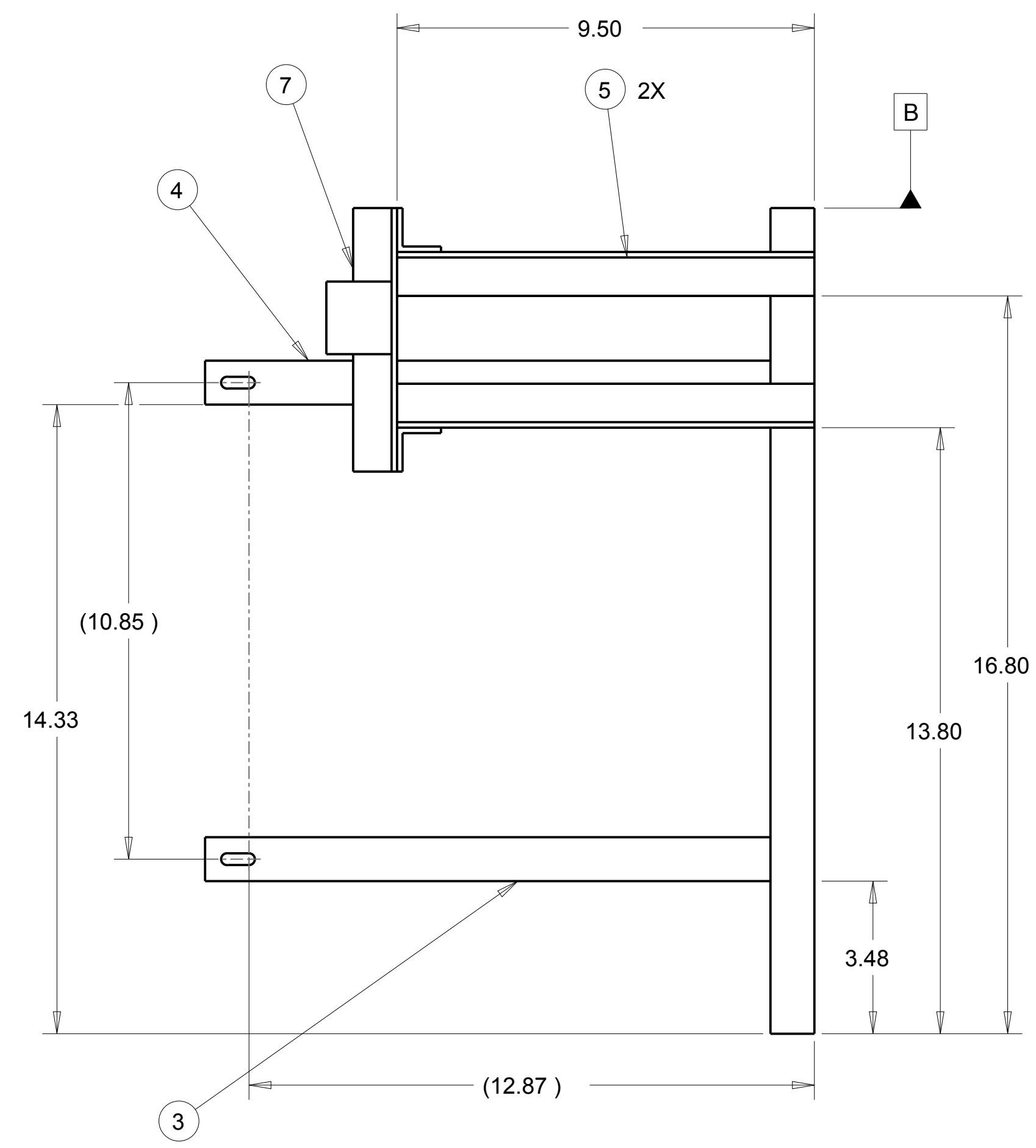
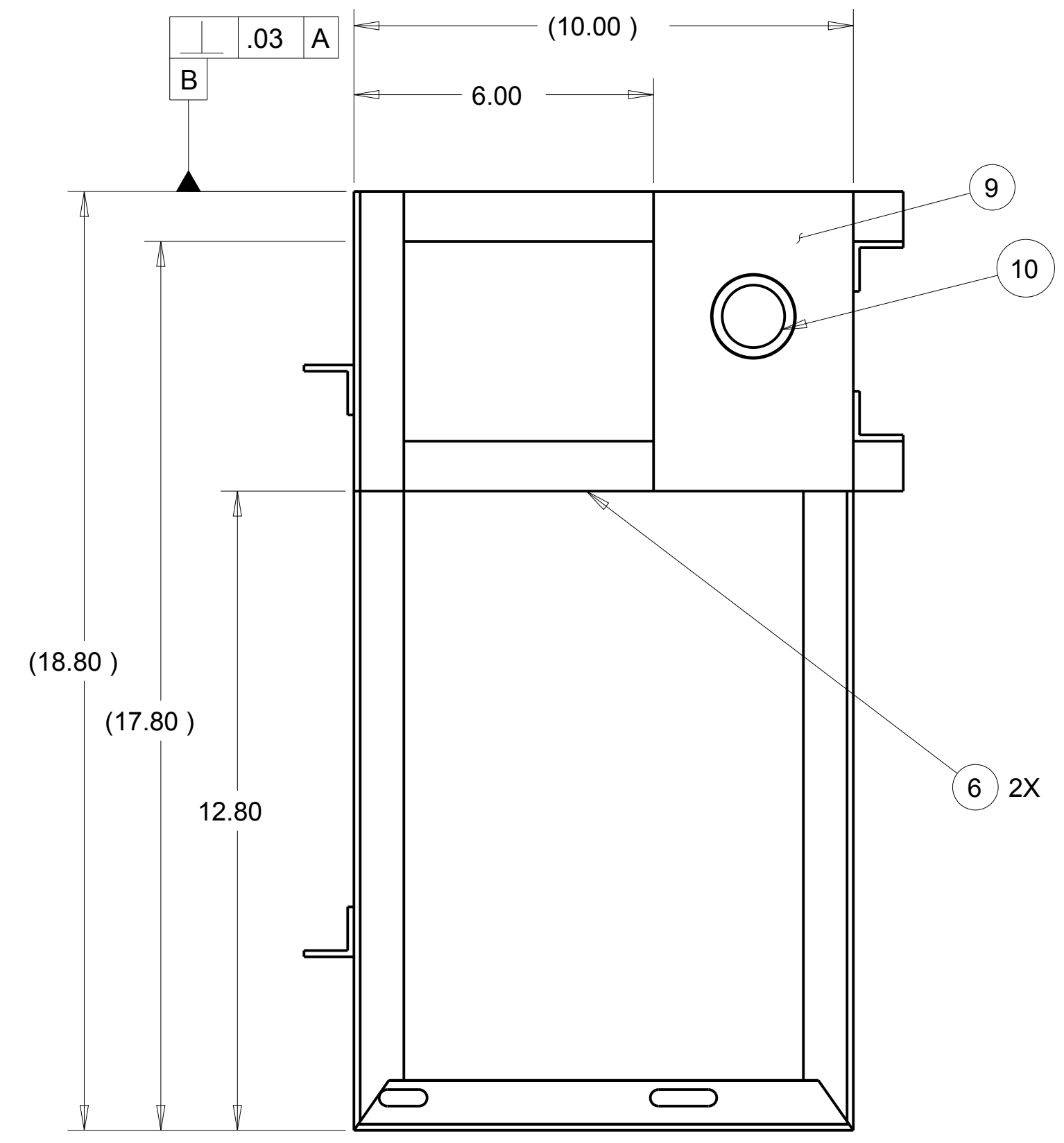


INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
10	07BY4	4464K216	1	THREADED FEMALE COUPLING, 1 IN	-
9	81996	1025979-9	1	BRACKET, PLENUM MUFFLER	ASTM - A276
8	81996	1025979-8	2	ANGLE 8, FRAME, PLENUM	ASTM - A276
7	81996	1025979-7	1	ANGLE 7, FRAME, PLENUM	ASTM - A276
6	81996	1025979-6	2	ANGLE 6, FRAME, PLENUM	ASTM - A276
5	81996	1025979-5	2	ANGLE 5, FRAME, PLENUM	ASTM - A276
4	81996	1025979-4	1	ANGLE 4, FRAME, PLENUM	ASTM - A276
3	81996	1025979-3	1	ANGLE 3, FRAME, PLENUM	ASTM - A276
2	81996	1025979-2	1	ANGLE 2, FRAME, PLENUM	ASTM - A276
1	81996	1025979-1	1	ANGLE 1, FRAME, PLENUM	ASTM - A276

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA			
1025978 AGPU		STRESS XXX		FRAME ASSEMBLY, PLENUM	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN			
DRAWING RESTRICTIONS		SIZE D		CAGE CODE 81996	DWG NO 1025979
FOR OFFICIAL USE ONLY		SCALE 0.650		WEIGHT - LBS	SHEET 1 OF 11
APPLICATION		REV X			



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7

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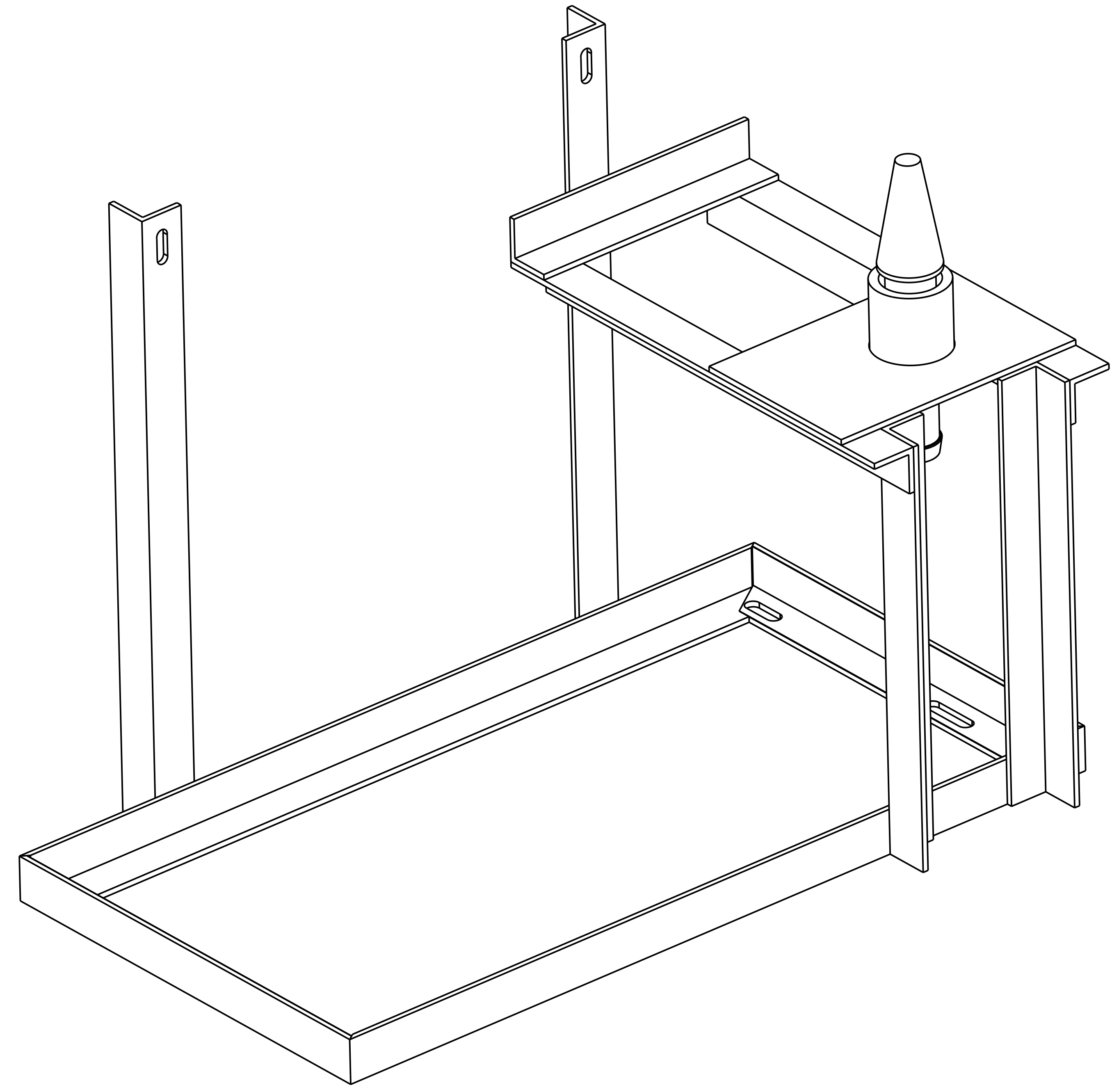
4

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NOTES:
 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. INSTALL ITEMS 2 AND 3 PER MANUFACTURER INSTRUCTIONS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



3	04049	ASP-8	1	PNEUMATIC MUFFLER	-
2	24869	KHN881	1	HEX STEEL NIPPLE	-
1	81996	1025979	1	PLENUM FRAME ASSEMBLY	-
INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE PLENUM FRAME ASSEMBLY, AGPU	
1025977 AGPU		STRESS XXX		SIZE D	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		CAGE CODE 81996	
APPLICATION		SCALE 0.650		DWG NO 1025978	
		WEIGHT - LBS		REV X	
		SHEET 1 OF 2			

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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RELEASE LEVEL

DWG NO

1025978

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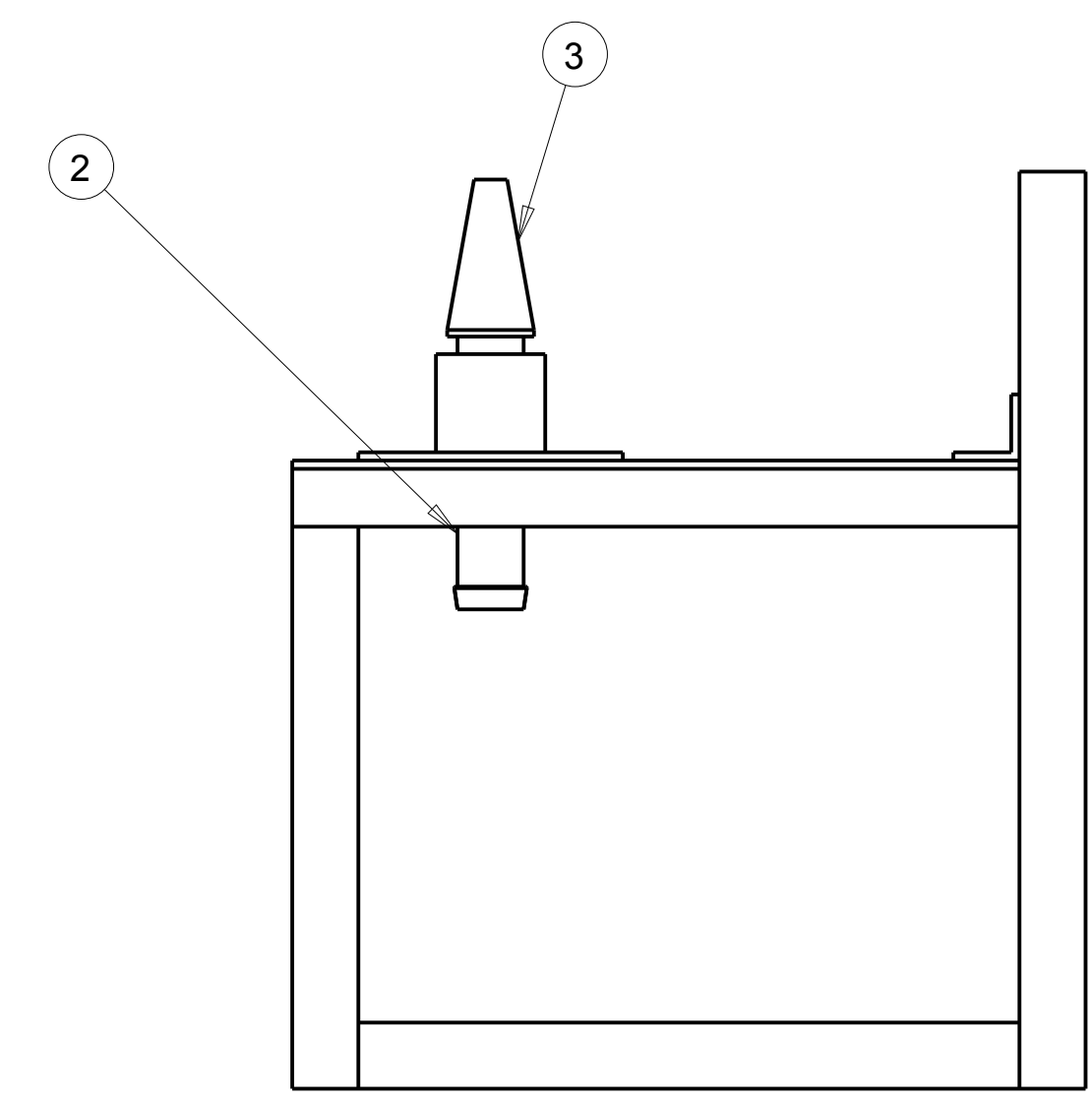
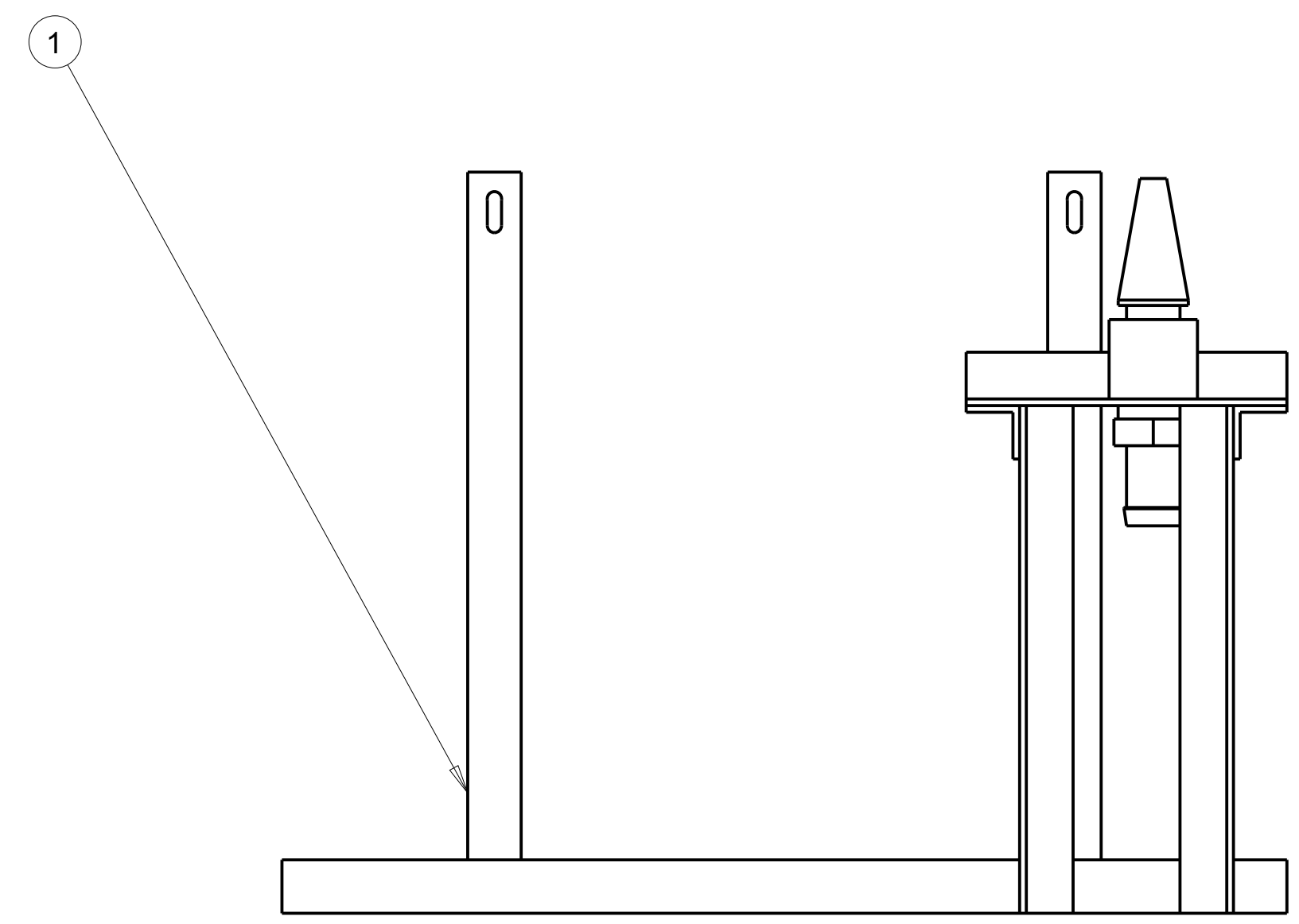
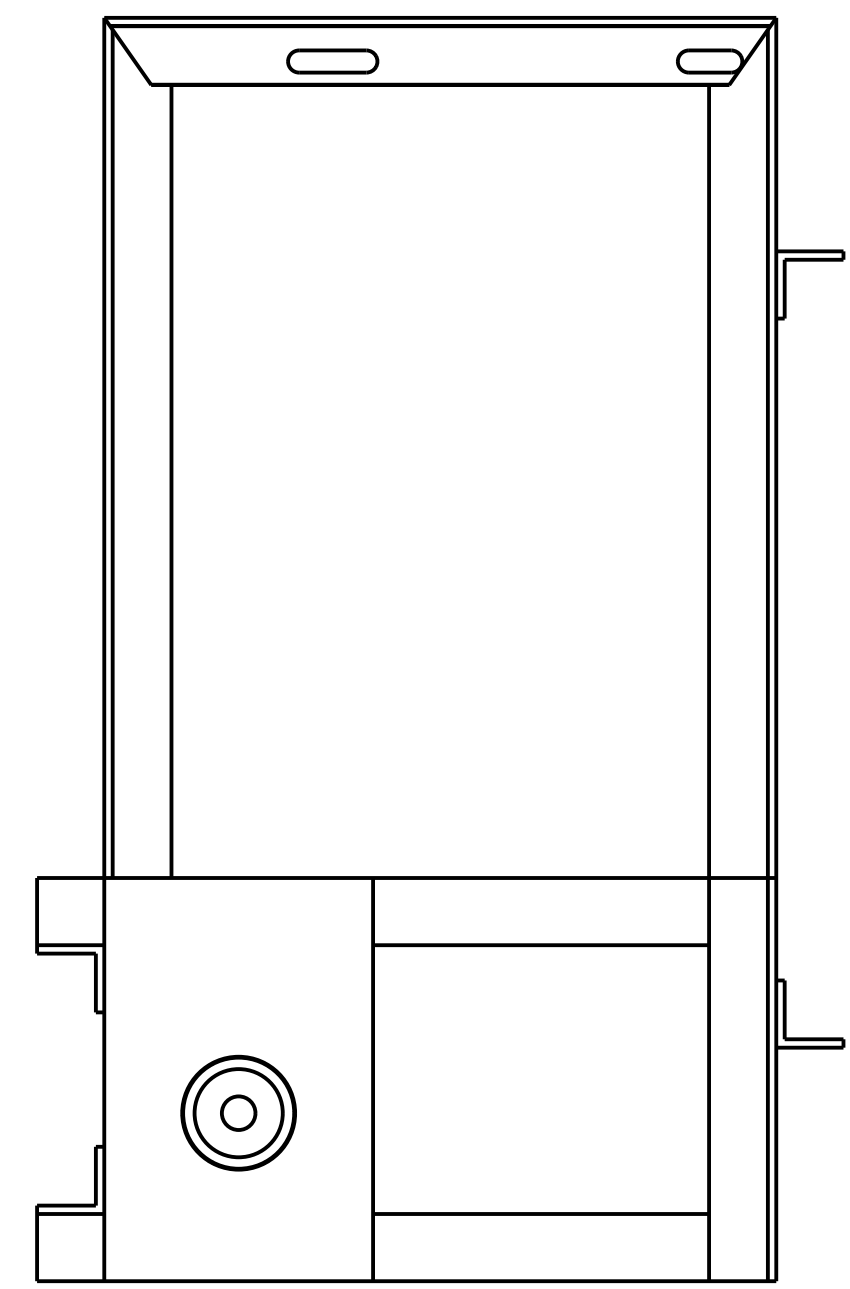
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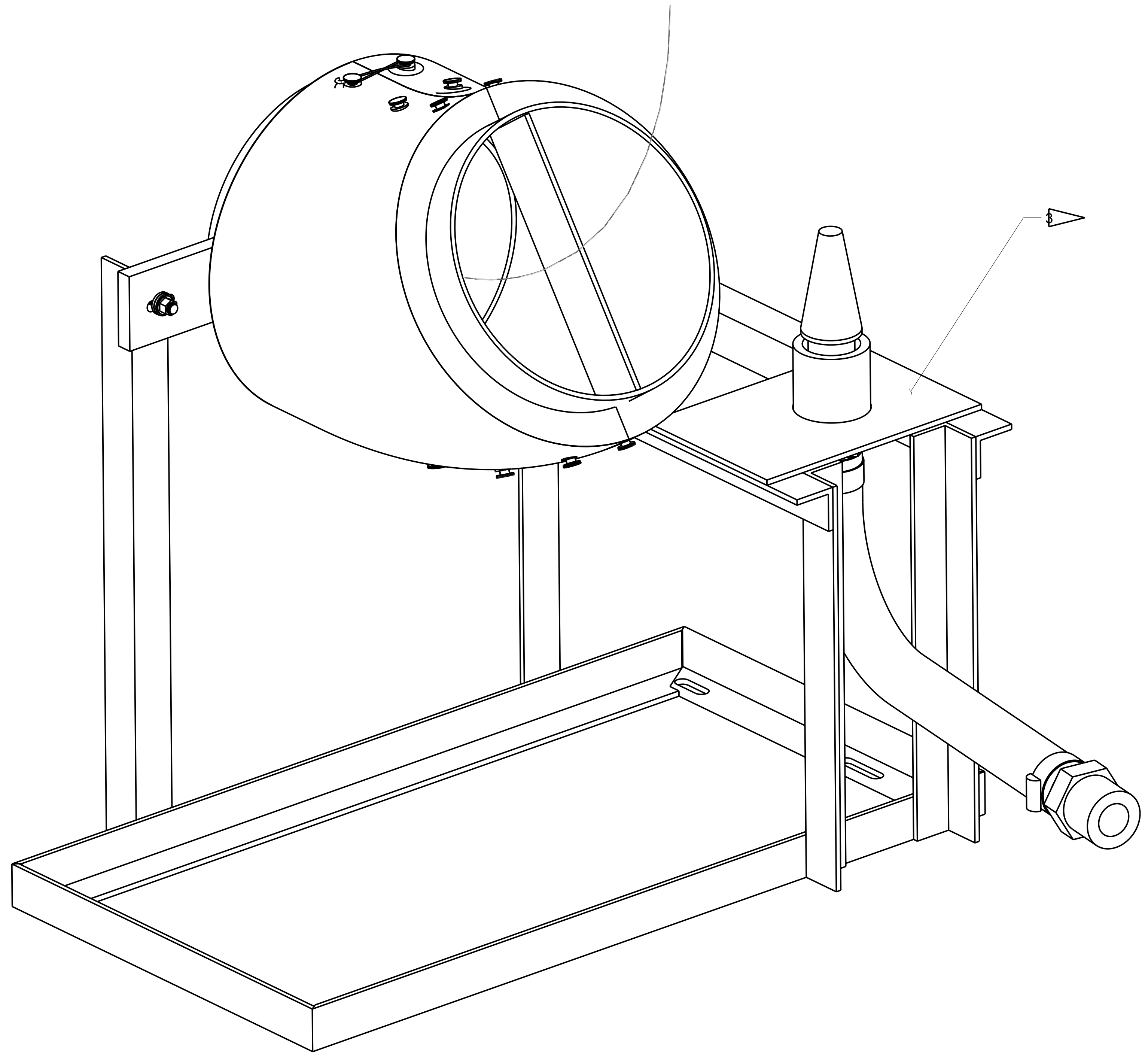


DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1025978	X
SCALE	0.350	WEIGHT	- LBS	SHEET	2 OF 2

NOTES:
 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. INSTALL ITEM 1 FIRST IN THE AGPU. ITEMS 2 AND 3 ARE ASSEMBLED SEPARATELY BEFORE MOUNTING ON ITEM 1.
 3. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY		DATE	APPROVED
ZONE	REV	MM-DD-YYYY	-
ALL	-		



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
10	07BY4	5407K63	2	HOSE CLAMP, SS, SAE 20	-
9	07BY4	91101A229	2	WASHER, LOCKING, 1/4	-
8	07BY4	MS51972-1	2	NUT, HEX, 1/4-28	-
7	07BY4	91772A563	2	SCREW, MACHINE, PAN HEAD, 1/4-28 X 1.250 INCH LONG	-
6	39428	015475312	4	WASHER, FLAT, 1/4	-
5	24869	KHN881	1	HEX STEEL NIPPLE	-
4	81996	1032311	1	HOSE, BLEED AIR	MIL-Y-1140, ASTM-A227, ASTM-A818
3	81996	1032308-100	1	PLENUM INSULATION ASSEMBLY	-
2	81996	1032304-100	1	PLENUM ELBOW ASSEMBLY	-
1	81996	1025978	1	PLENUM TOP FRAME ASSEMBLY	-

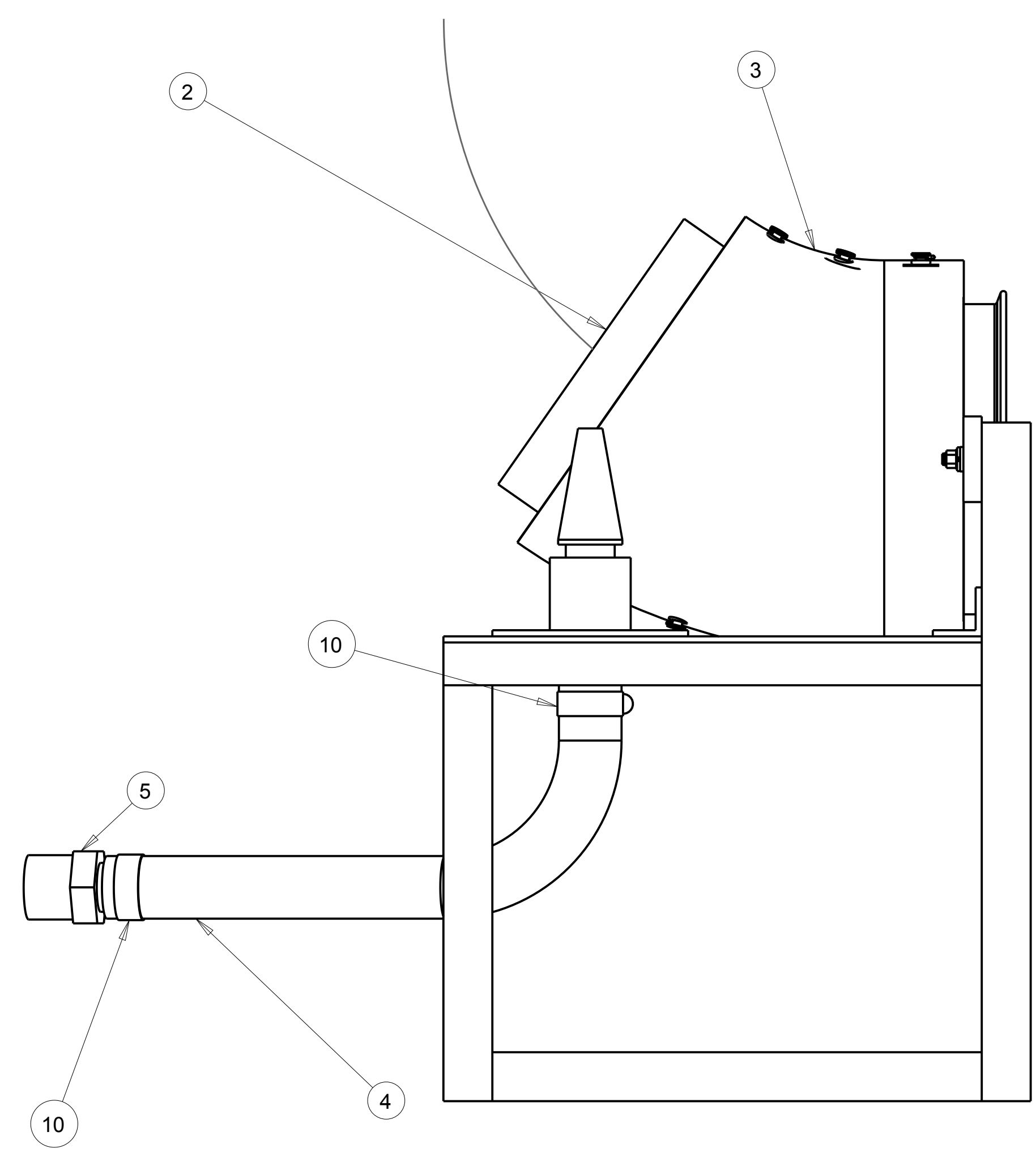
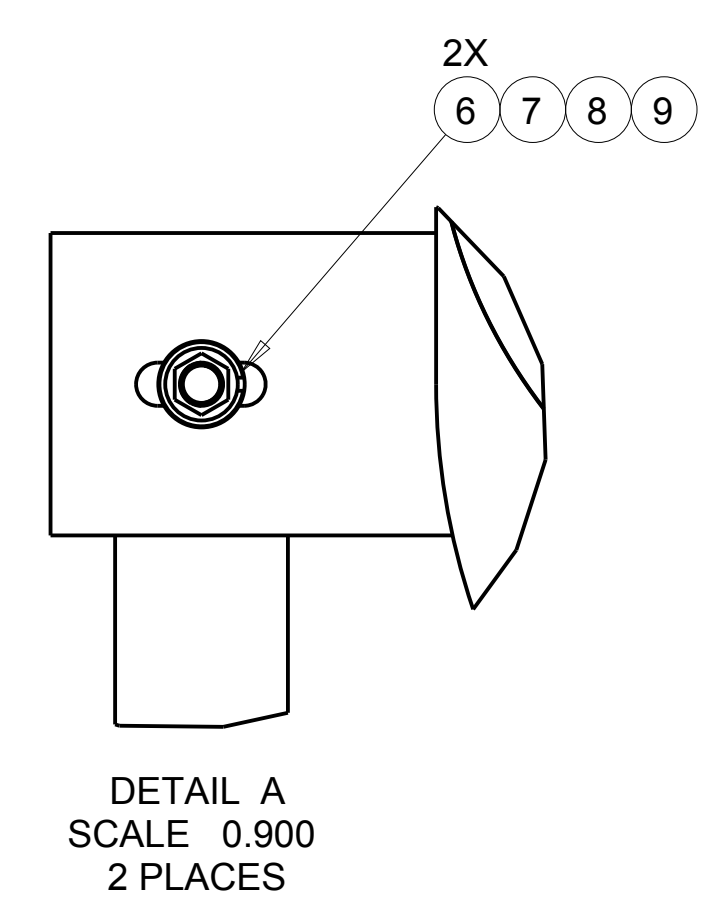
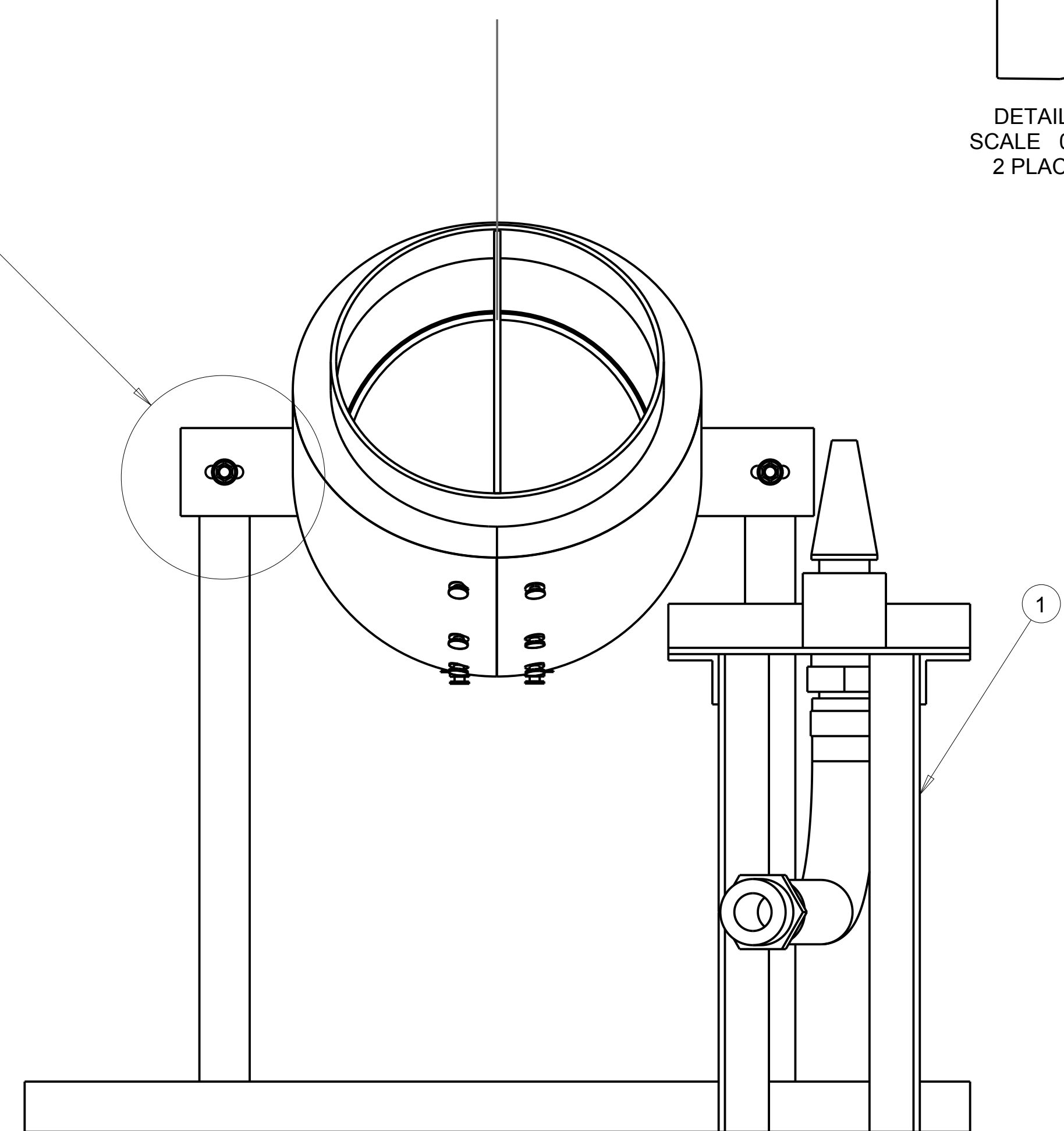
DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE PLENUM ASSEMBLY, AGPU EXHAUST	
1025963 AGPU		STRESS XXX		SIZE D	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		CAGE CODE 81996	
APPLICATION		SCALE 0.650		DWG NO 1025977	
		WEIGHT - LBS		REV X	
		SHEET 1 OF 2			

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

SEE DETAIL A



DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1025977	X
SCALE	0.450	WEIGHT	- LBS	SHEET	2 OF 2

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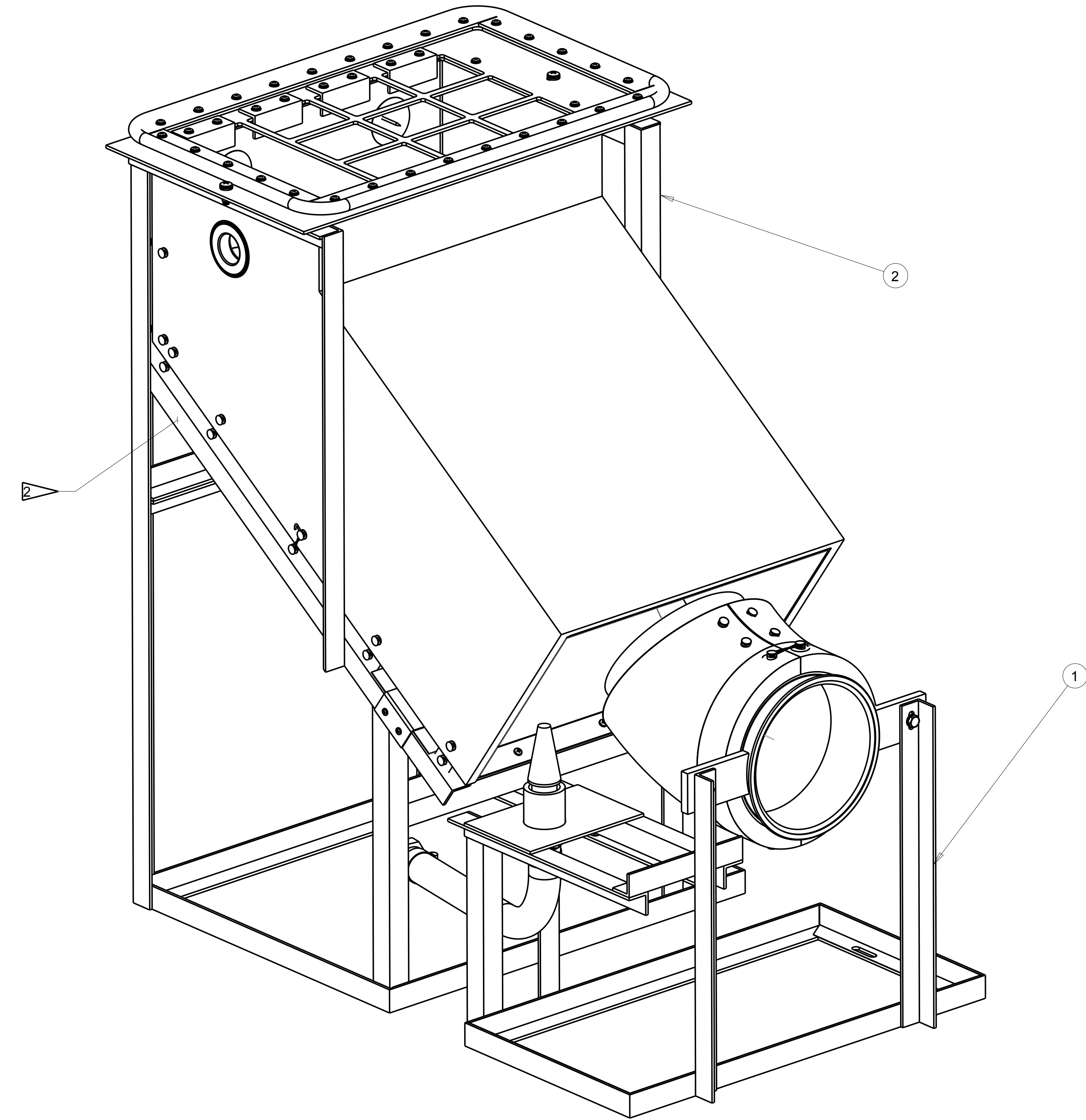
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. PLACE NON-DESTRUCTIVE PLATE WITH ASSEMBLY WEIGHT IN ACCORDANCE WITH MIL-STD-1472.
 3. REFER TO DRAWING 1025980 FOR AGPU, KIT, EXHUAUST AND HARDWARE.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
2	81996	1032312	1	EJECTOR TOP ASSEMBLY	-
1	81996	1025977	1	PLENUM TOP ASSEMBLY	-

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THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE EXHUAUST ASSEMBLY - AGPU	
AGPU		STRESS XXX CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		SIZE D CAGE CODE 81996 DWG NO 1025963 REV X	
NEXT ASSY USED ON		SCALE 0.350		WEIGHT - LBS SHEET 1 OF 1	
APPLICATION					

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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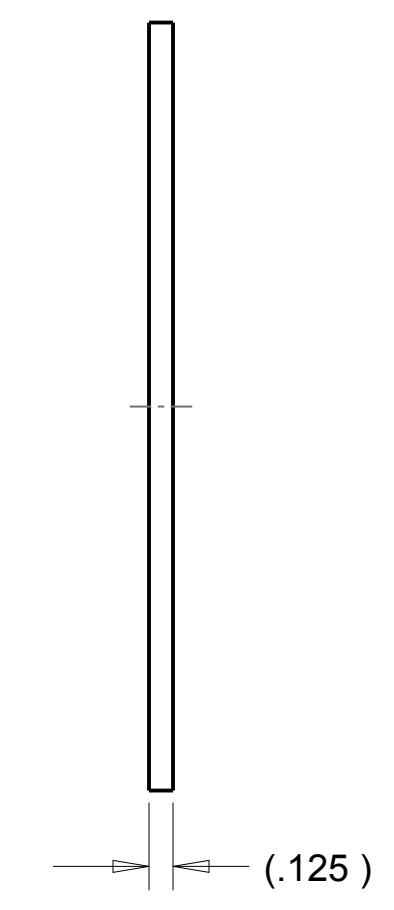
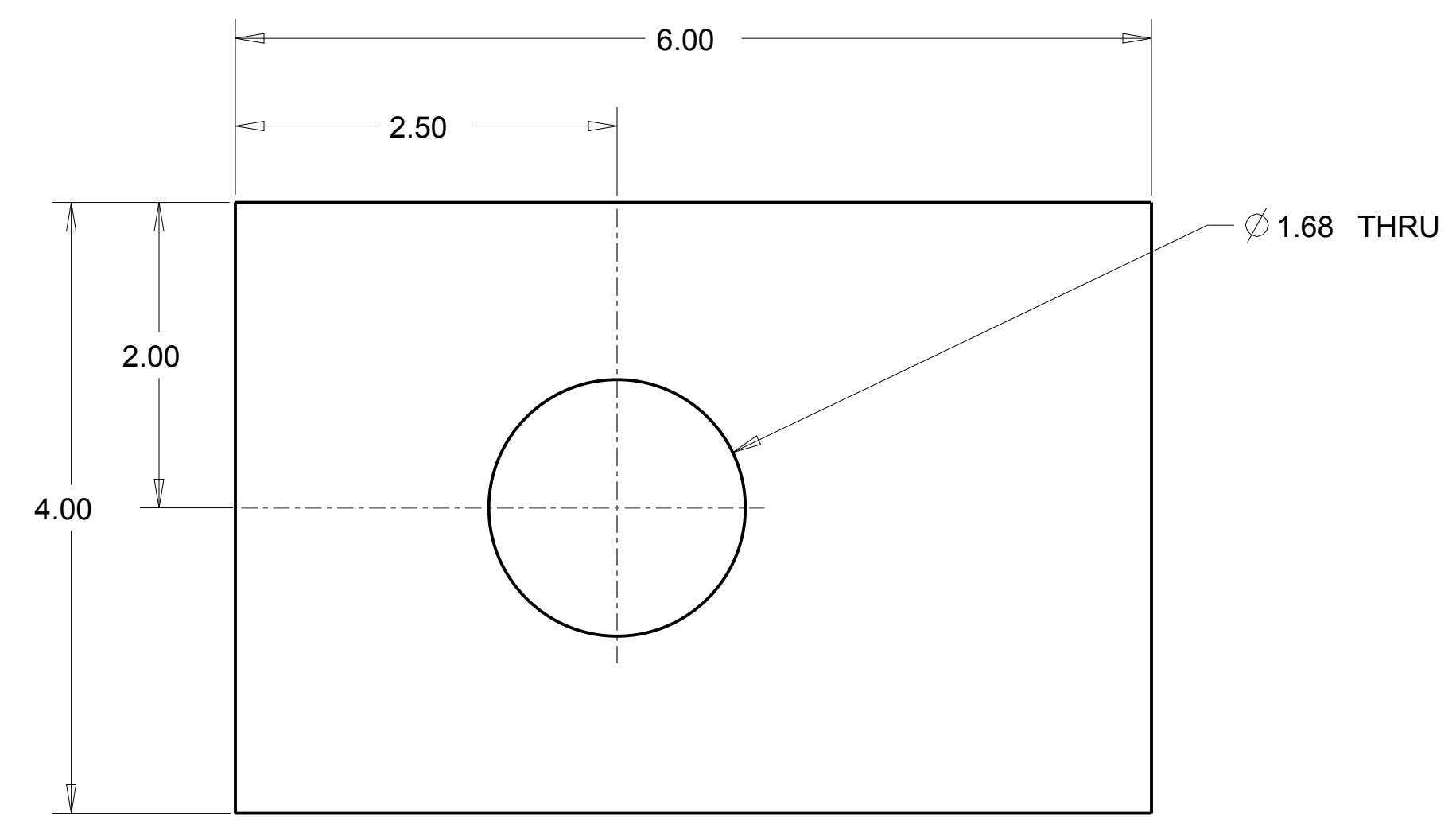
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-09

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1025979	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	1.000	WEIGHT	- LBS	SHEET	11 OF 11		

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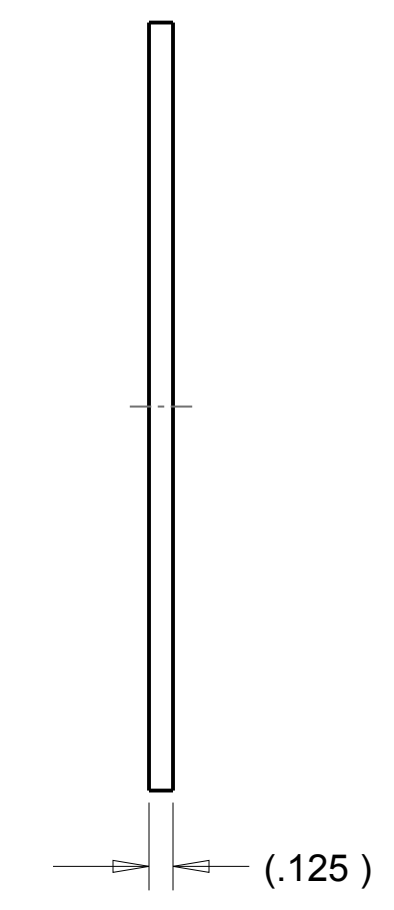
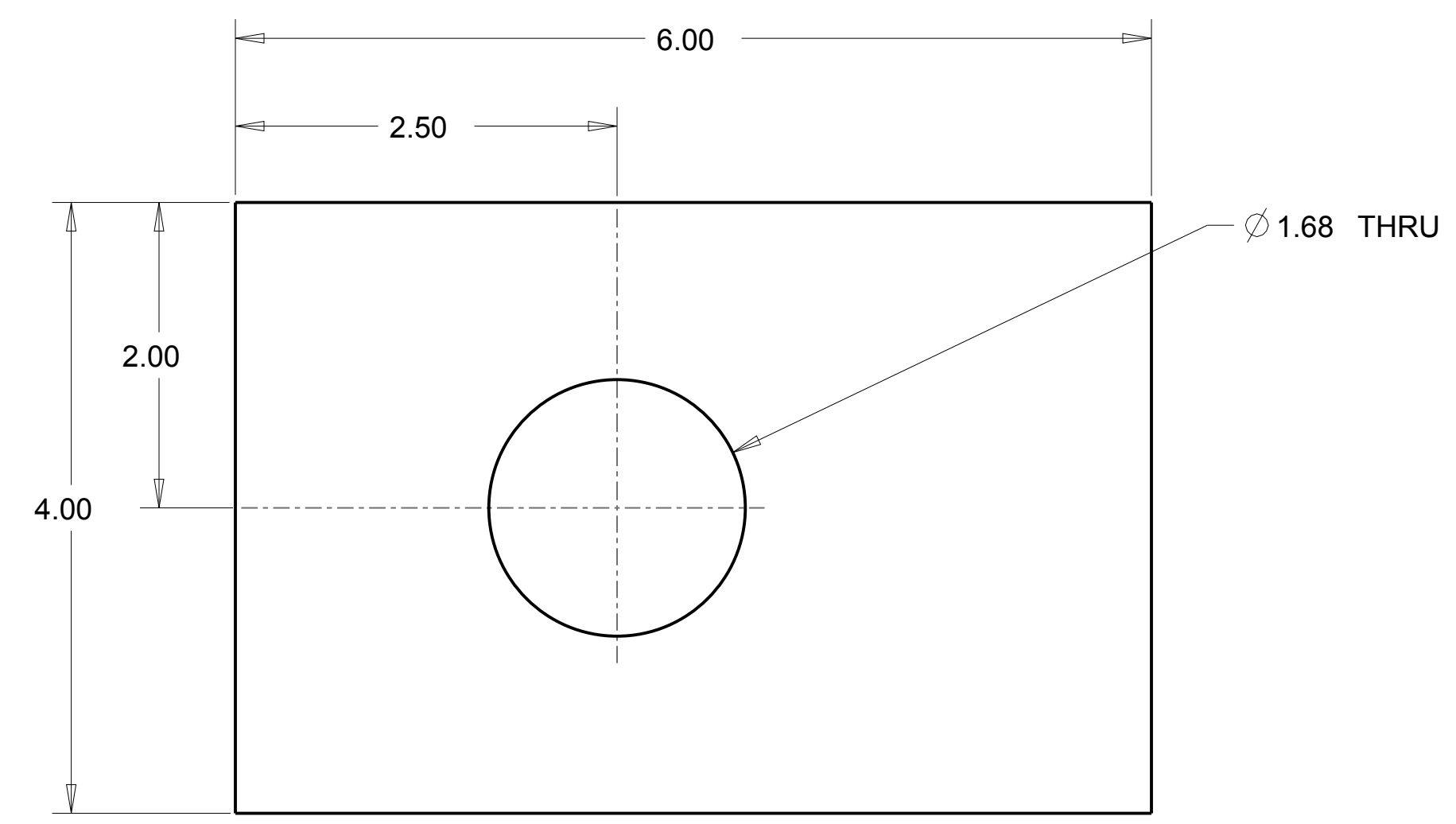
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-09

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1025979	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	1.000	WEIGHT	- LBS	SHEET	11 OF 11		

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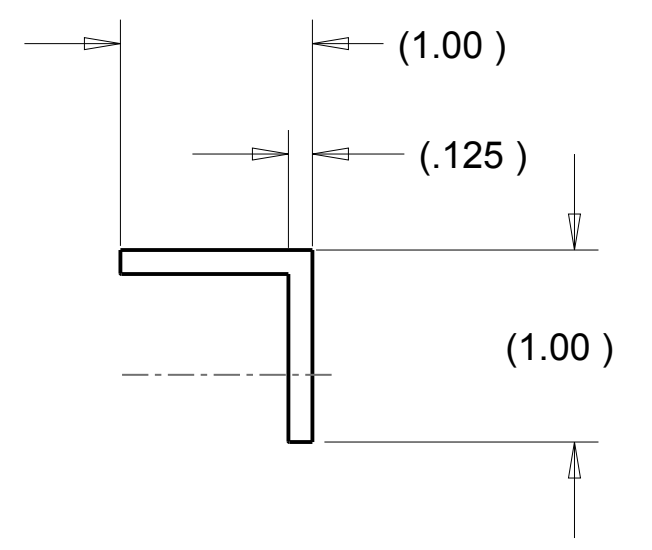
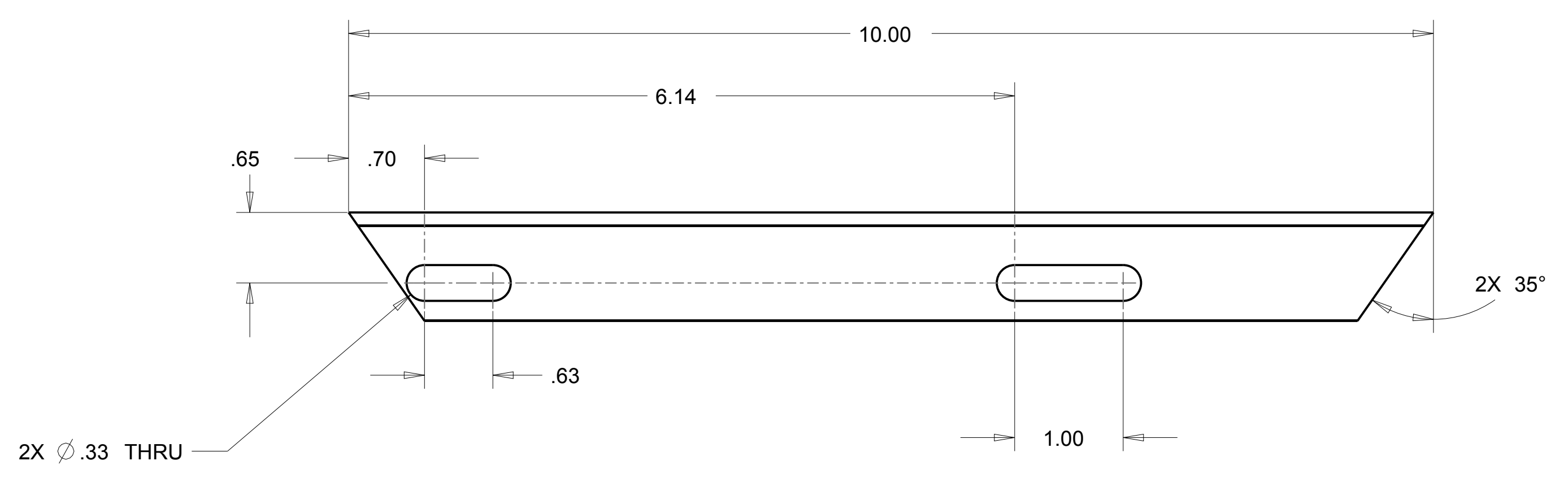
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-01

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	REV
D	81996	1025979	X
SCALE	1.000	WEIGHT	- LBS
		SHEET	3 OF 11

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RELEASE LEVEL

DWG NO

1025979

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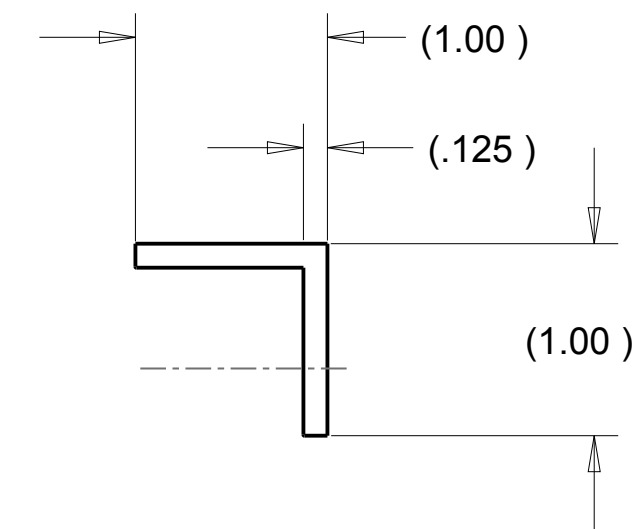
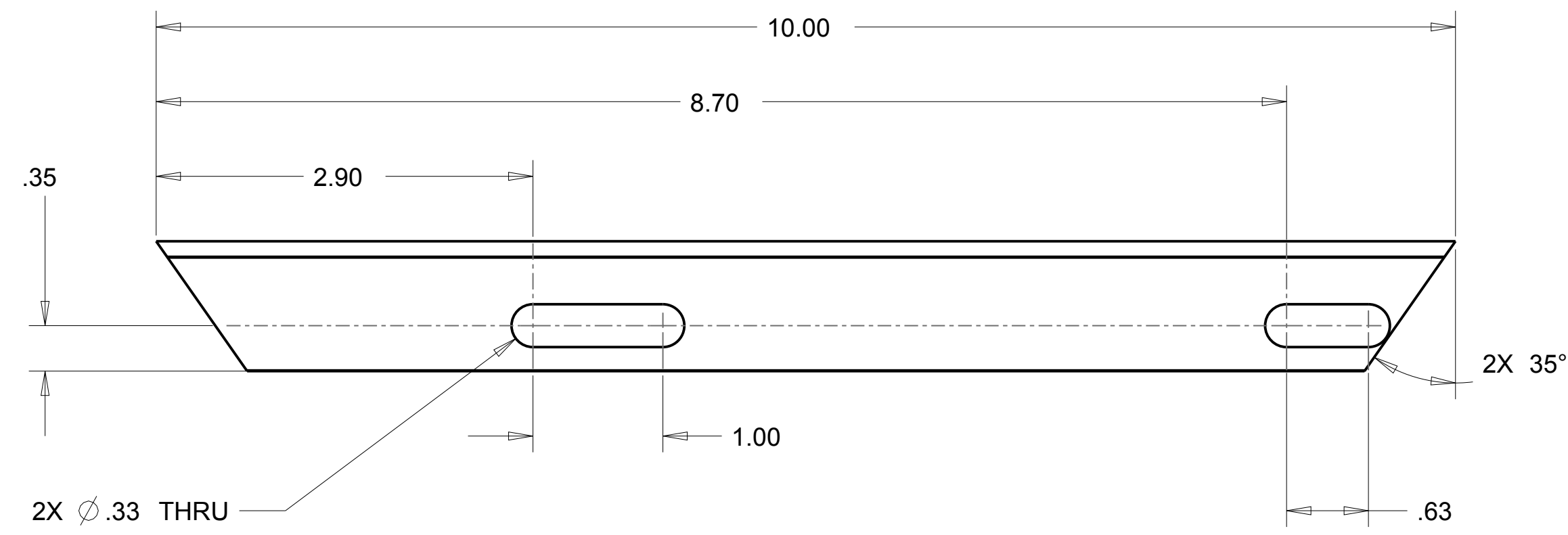
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DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1025979	X
SCALE	1.000	WEIGHT	- LBS	SHEET	4 OF 11

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RELEASE LEVEL

DWG NO

1025979

SH

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REV

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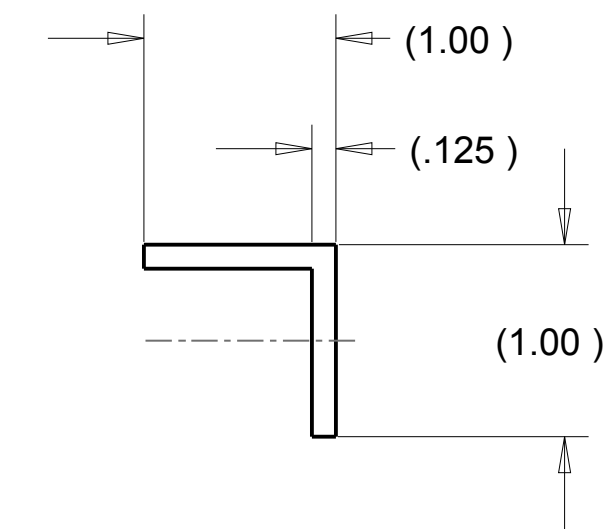
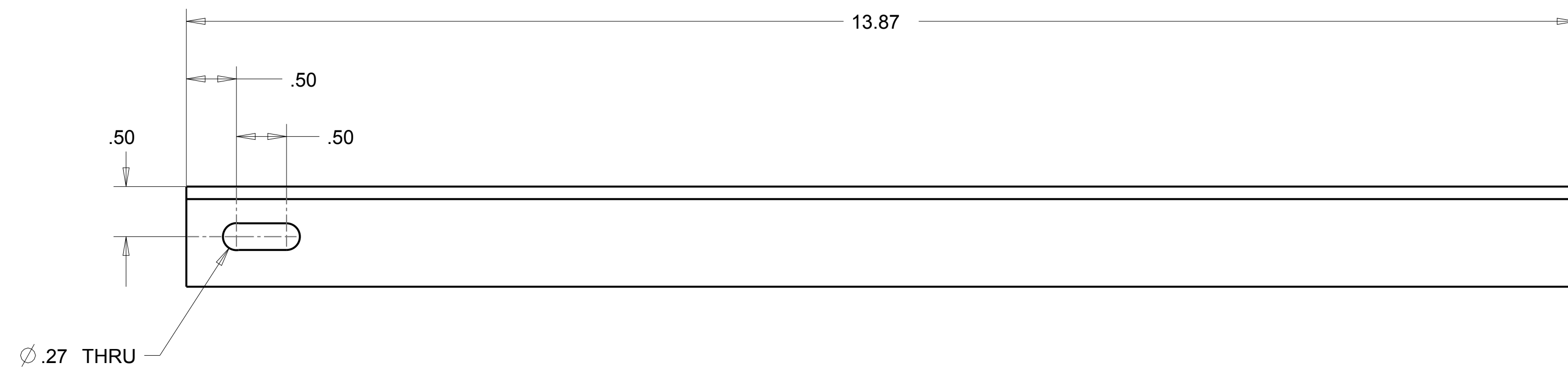
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-03

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	REV
D	81996	1025979	X
SCALE	1.000	WEIGHT	- LBS
		SHEET	5 OF 11

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RELEASE LEVEL

DWG NO

1025979

SH

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REV

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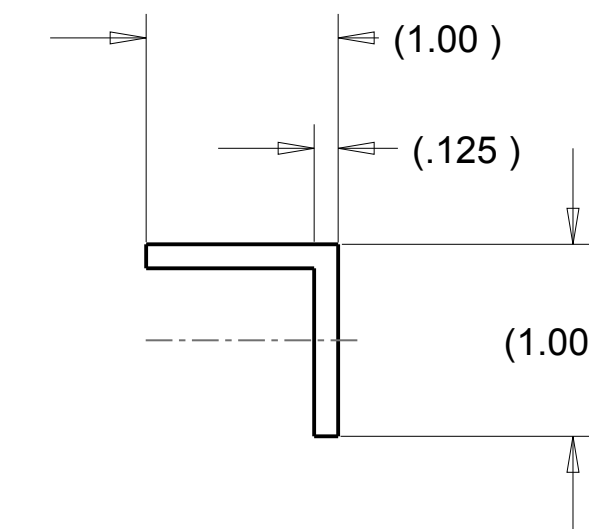
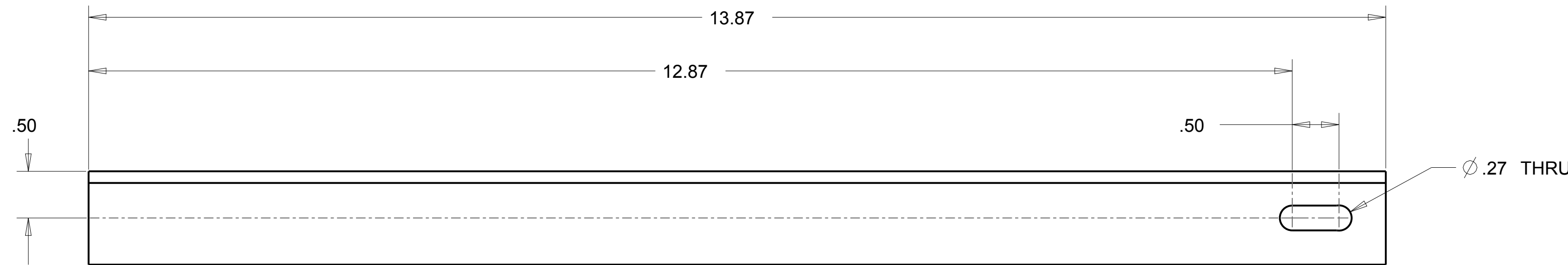
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-04

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

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CAGE CODE

81996

DWG NO

1025979

REV

X

SCALE

1.000

WEIGHT

- LBS

SHEET

6 OF 11

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RELEASE LEVEL

DWG NO

1025979

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REV

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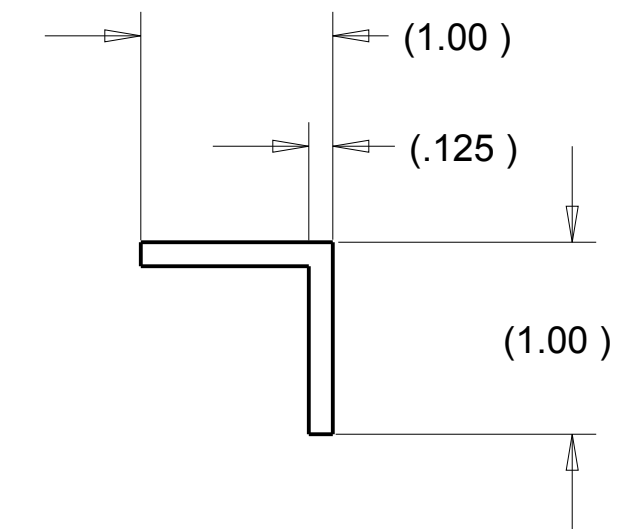
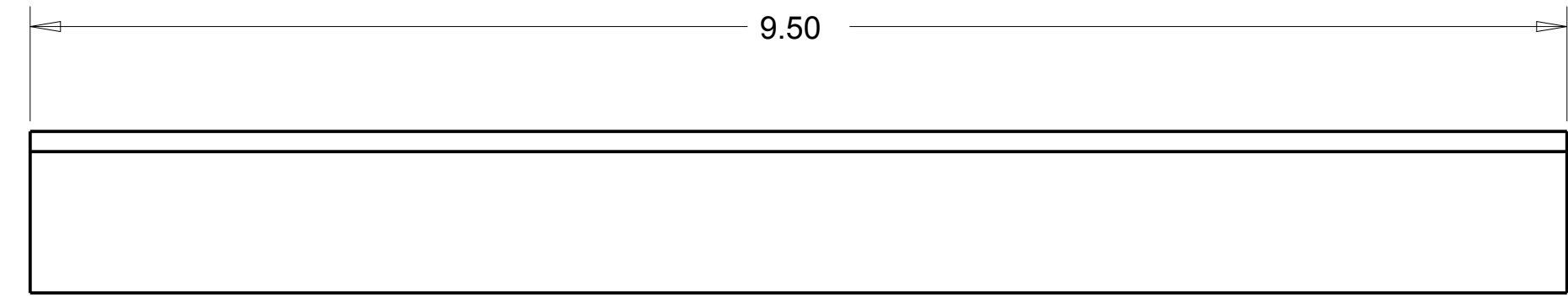
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-05

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

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CAGE CODE

81996

DWG NO

1025979

REV

X

SCALE

1.000

WEIGHT

- LBS

SHEET

7 OF 11

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RELEASE LEVEL

DWG NO

1025979

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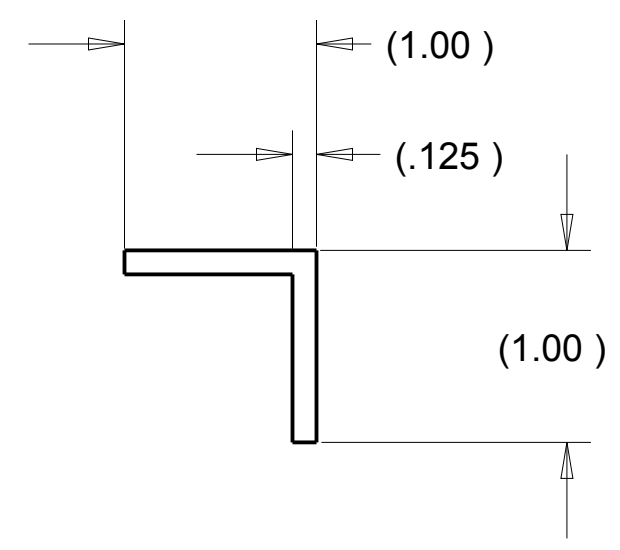
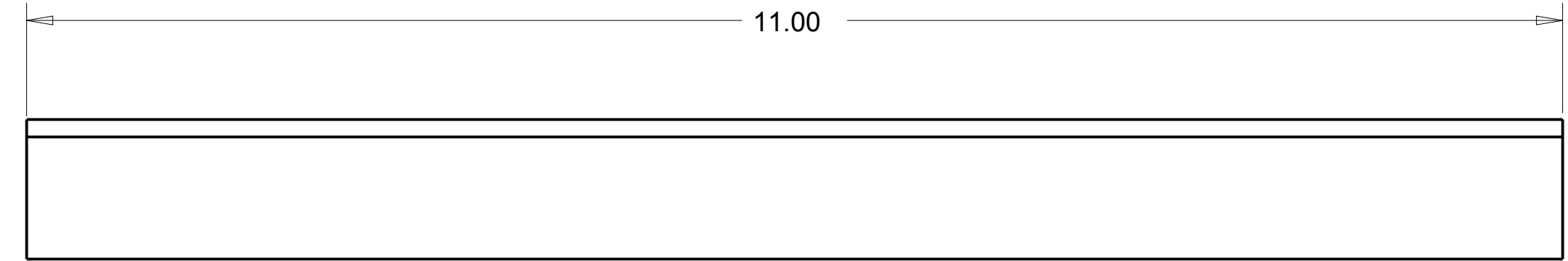
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-06

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

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CAGE CODE

81996

DWG NO

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WEIGHT

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8 OF 11

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RELEASE LEVEL

DWG NO

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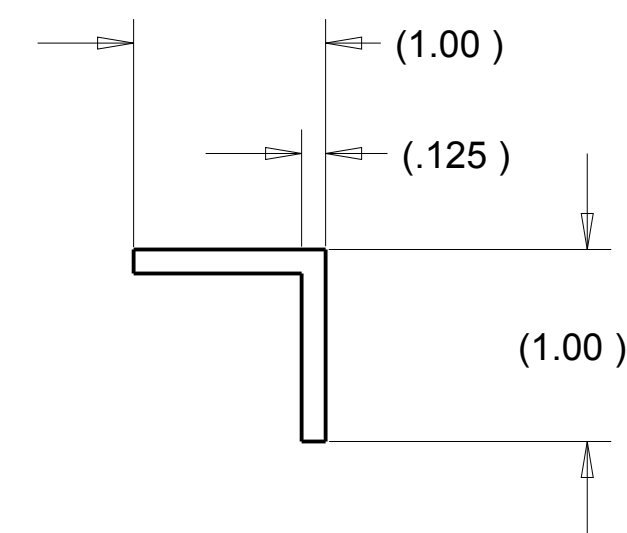
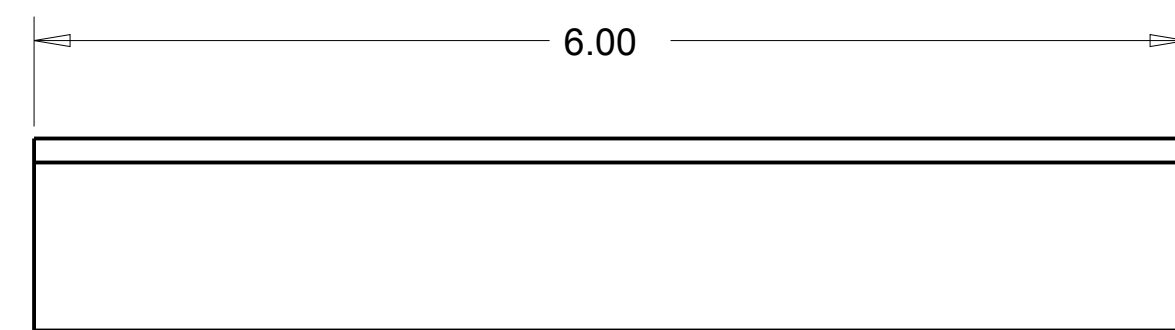
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-07

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

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CAGE CODE

81996

DWG NO

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REV

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SCALE

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WEIGHT

- LBS

SHEET

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NOTES:

- 1. AGPU EXHAUST KIT SHOULD BE INSTALLED USING TB 1-1730-229-30-4.
- 2. AGPU EXHAUST KIT WILL ONLY BE USED WHEN REPLACING ENTIRE EXHAUST ASSEMBLY.

REV STATUS	
REV	SH
-	ALL

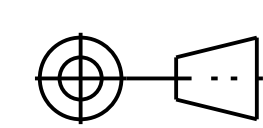
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ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-

HARDWARE KIT CONTENTS

12	81996	TB 1-1730-229-30-4	1	AGPU EXHAUST INSTALLATION INSTRUCTIONS	-
11	81996	1032312	1	EJECTOR TOP ASSEMBLY	-
10	81996	1025977	1	PLENUM TOP ASSEMBLY	-
9	07BY4	90054A405	1	SCREW, SELF-TAPPING, 5/16, .500 LONG	-
8	08028	37539	1	LUBRICANT, ANTI-SEIZE, 1 OZ.	-
7	33447	SECO7-C-12	1	SEAL, CONICAL, FLARED TUBE FITTING, 37 DEGREE	-
6	33447	SECO7-C-8	1	SEAL, CONICAL, FLARED TUBE FITTING, 37 DEGREE	-
5	14242	513117A-700-A	1	COUPLING, V-BAND	-
4	07BY4	5407K63	2	CLAMP, HOSE	-
3	07BY4	90762A115	10	NUT, HEX, 1/4-28	-
2	07BY4	91101A229	10	WASHER, LOCKING, 1/4	-
1	07BY4	015475312	10	WASHER, FLAT, 1/4	-
FIN	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION

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THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA	TITLE AGPU KIT EXHAUST AND HARDWARE									
		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN	<table border="1"> <tr> <td>SIZE</td> <td>CAGE CODE</td> <td>DWG NO</td> <td>REV</td> </tr> <tr> <td>D</td> <td>81996</td> <td>1025980</td> <td>X</td> </tr> </table>		SIZE	CAGE CODE	DWG NO	REV	D	81996	1025980	X
SIZE	CAGE CODE	DWG NO	REV									
D	81996	1025980	X									
DRAWING RESTRICTIONS		SCALE 1.000 WEIGHT -LBS SHEET 1 OF 1										
NEXT ASSY USED ON		APPLICATION										

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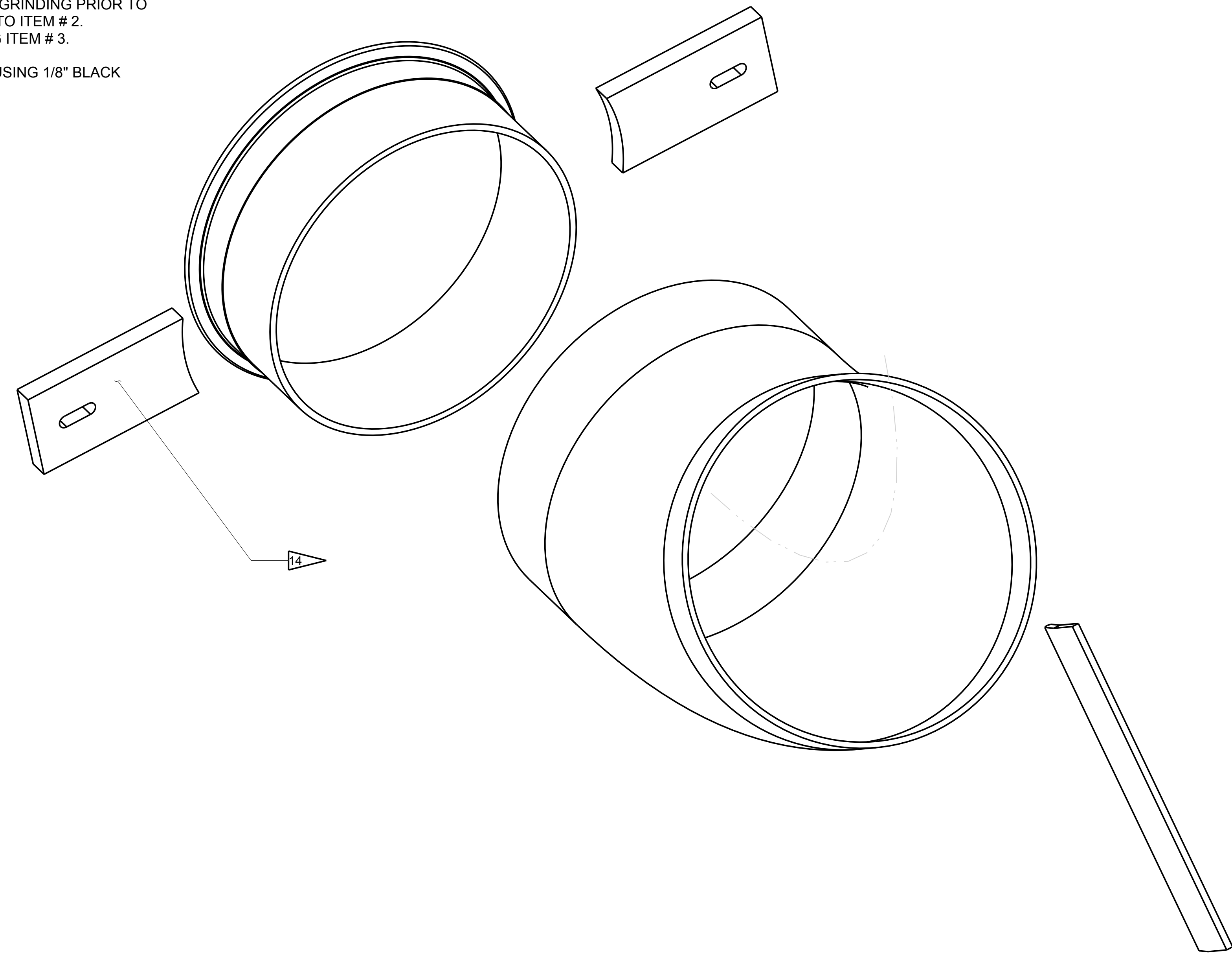
3

NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. SOME HIDDEN LINES REMOVED FOR CLARITY.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
4. SURFACE FINISH OR BETTER.
5. ALL WELDING NOTES AND SYMBOLS IN ACCORDANCE WITH AWS A2.4.
6. WELD GTAW PER AWS-D17.1. VISUALLY INSPECT, COMPLETE FUSION REQUIRED AT ROOT OF JOINT AND ALONG EACH LEG.
7. WELD GTAW: VISUAL EVIDENCE OF COMPLETE JOINT MELT THRU REQUIRED.
8. JOINT SHALL BE PURGED DURING WELDING.
9. TAB, PLENUM SIDES(S) ARE PARALLEL AND CENTERED ON THE FLANGE, INLET TUBE.
10. MATERIAL: 321 STAINLESS STEEL PER ASTM-A511, 0.375" STOCK THICKNESS, SCHEDULE 5 PIPE.
321 STAINLESS STEEL PER ASTM-A511.
321 STAINLESS STEEL PER ASTM-A240, 0.375" STOCK THICKNESS.
321 STAINLESS STEEL PER ASTM-A511, 0.125" STOCK THICKNESS.
11. ITEM #3 MUST BE BEVELED BY MACHINING OR GRINDING PRIOR TO WELDING TO CLEAR FILLET WELD FROM ITEM #1 TO ITEM #2.
12. WELD ITEM # 1 TO ITEM # 2 PRIOR TO WELDING ITEM # 3.
13. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
14. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
4	81996	1032304-4	1	VANE, PLENUM	ASTM - A511
3	81996	1032304-3	2	TAB, PLENUM SIDE	ASTM - A511
2	81996	1032304-2	1	PLENUM ELBOW	ASTM - A511
1	81996	1032304-1	1	FLANGE, INLET TUBE	ASTM - A511

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THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA			
1025977 AGPU		STRESS XXX		PLENUM ELBOW ASSEMBLY, AGPU	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN			
APPLICATION		DRAWING SYMBOL		SIZE D	CAGE CODE 81996
				DWG NO 1032304	REV X
				SCALE 0.750	WEIGHT - LBS
				SHEET 1 OF 6	

DRAWING RESTRICTIONS
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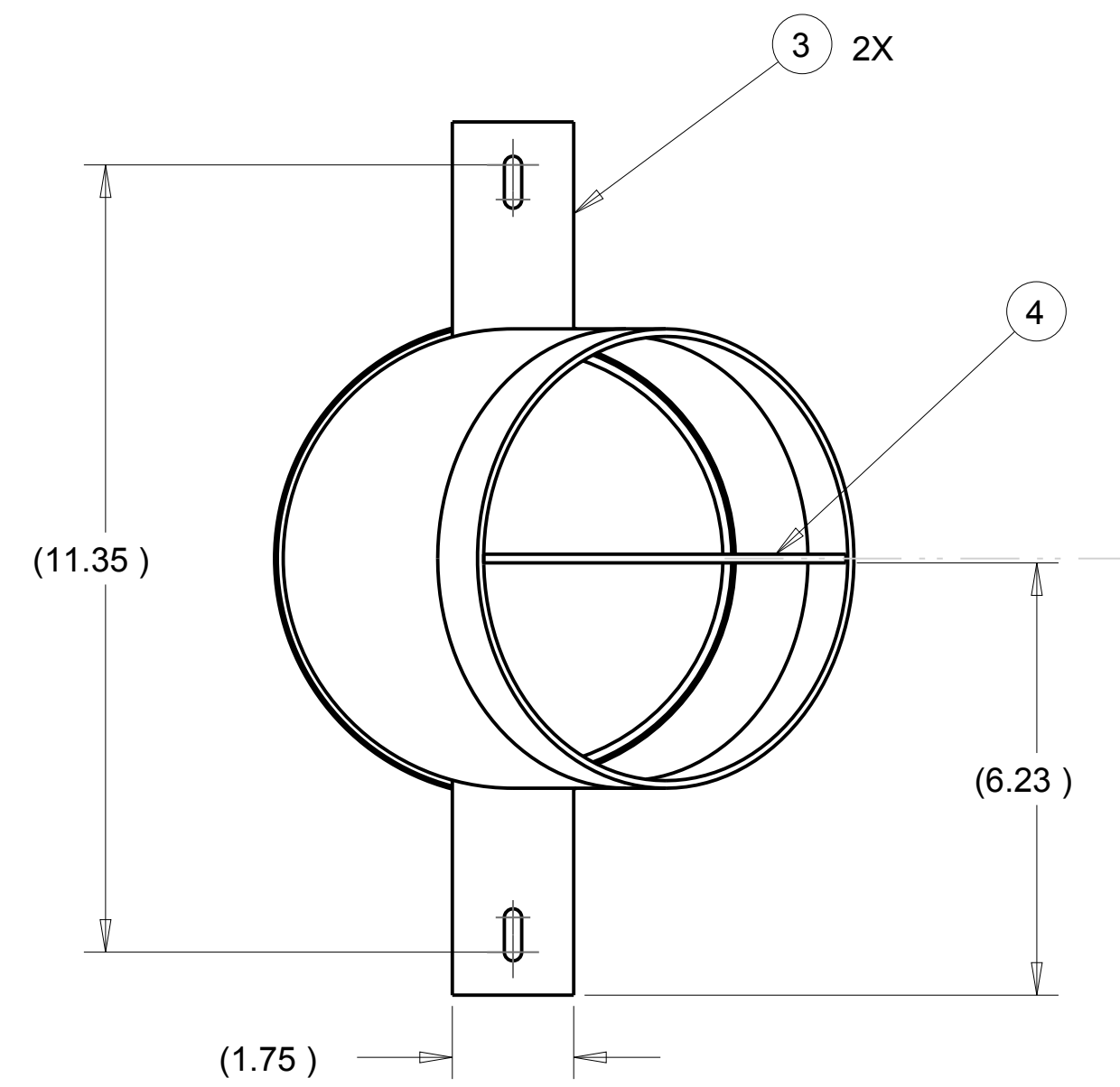
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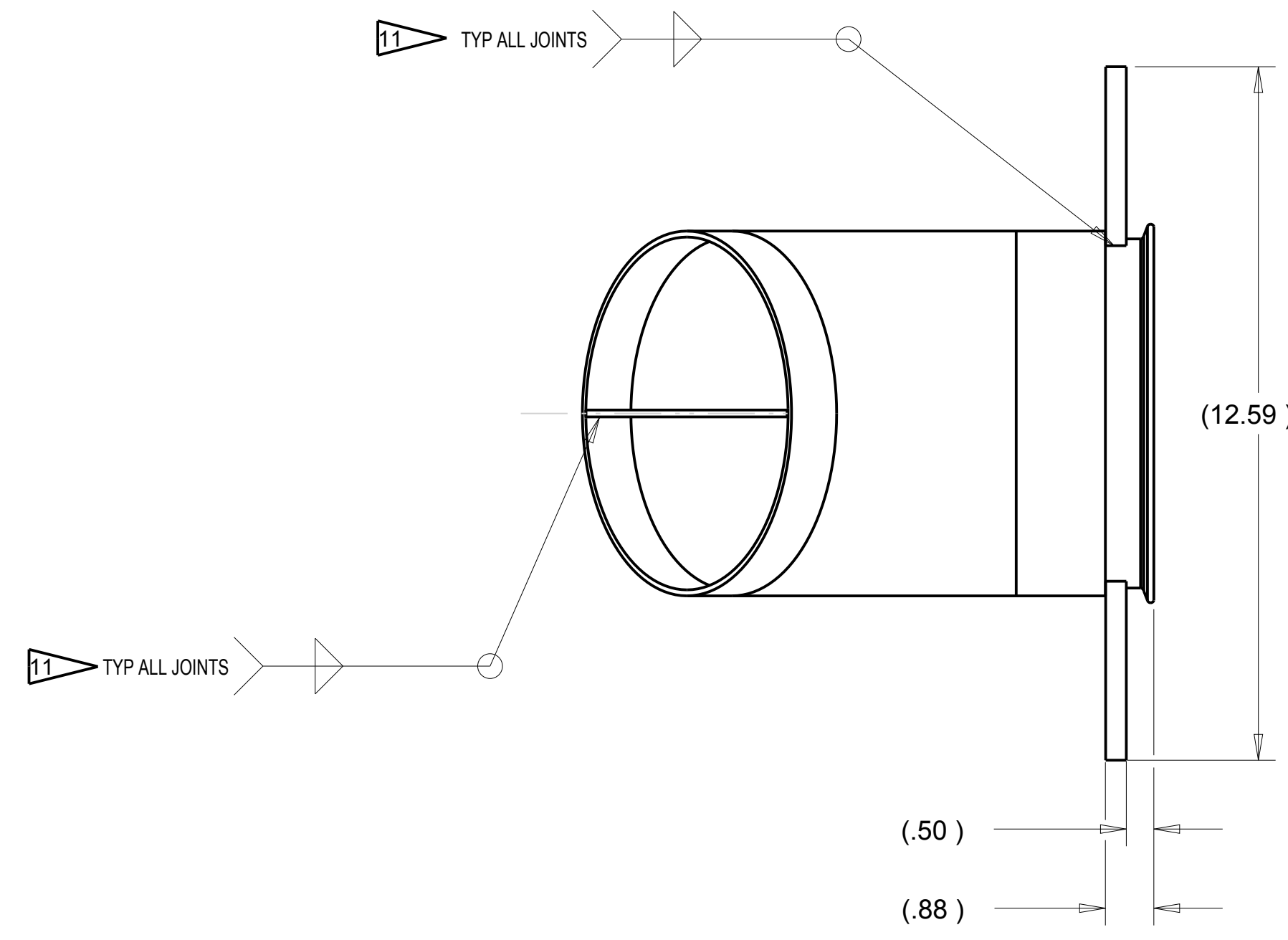
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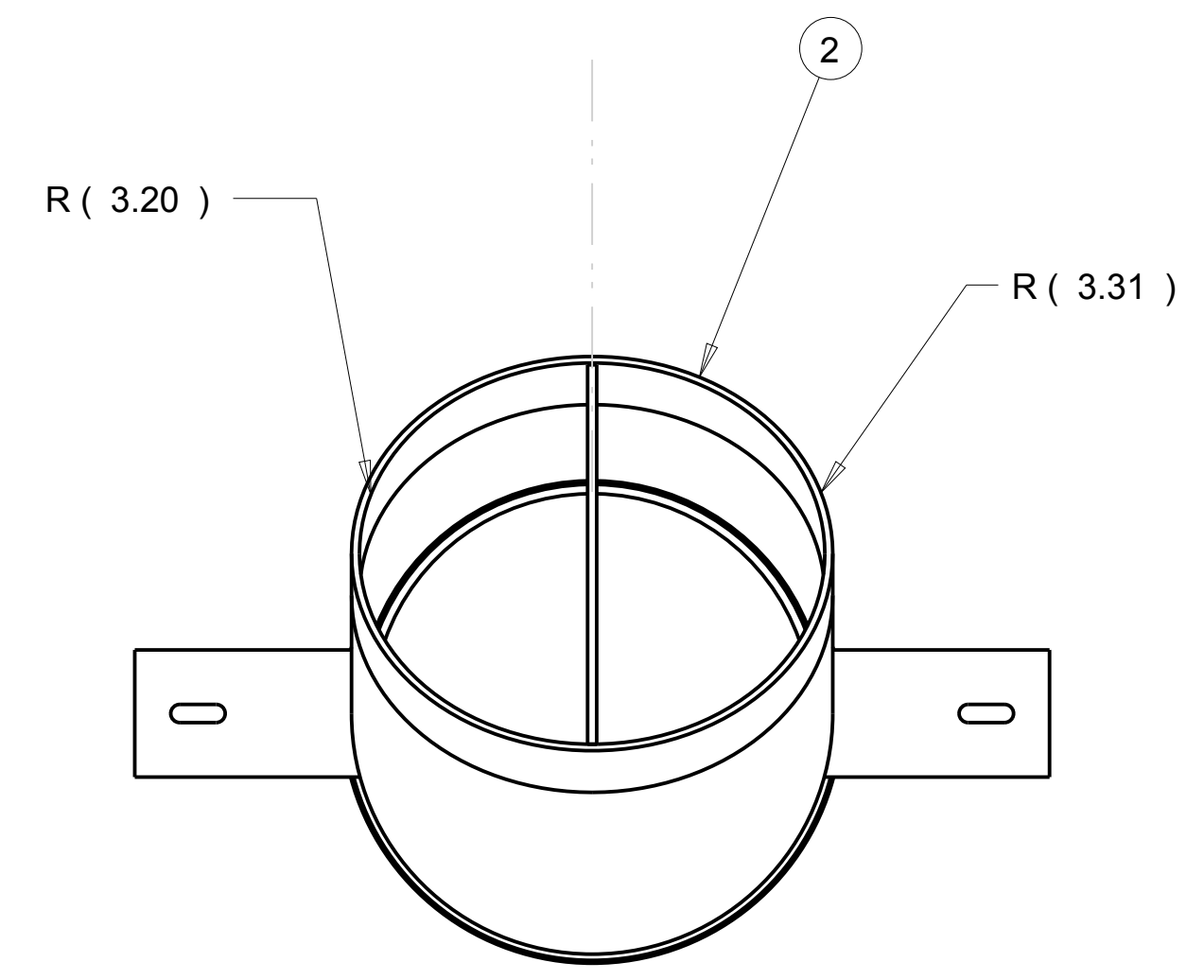
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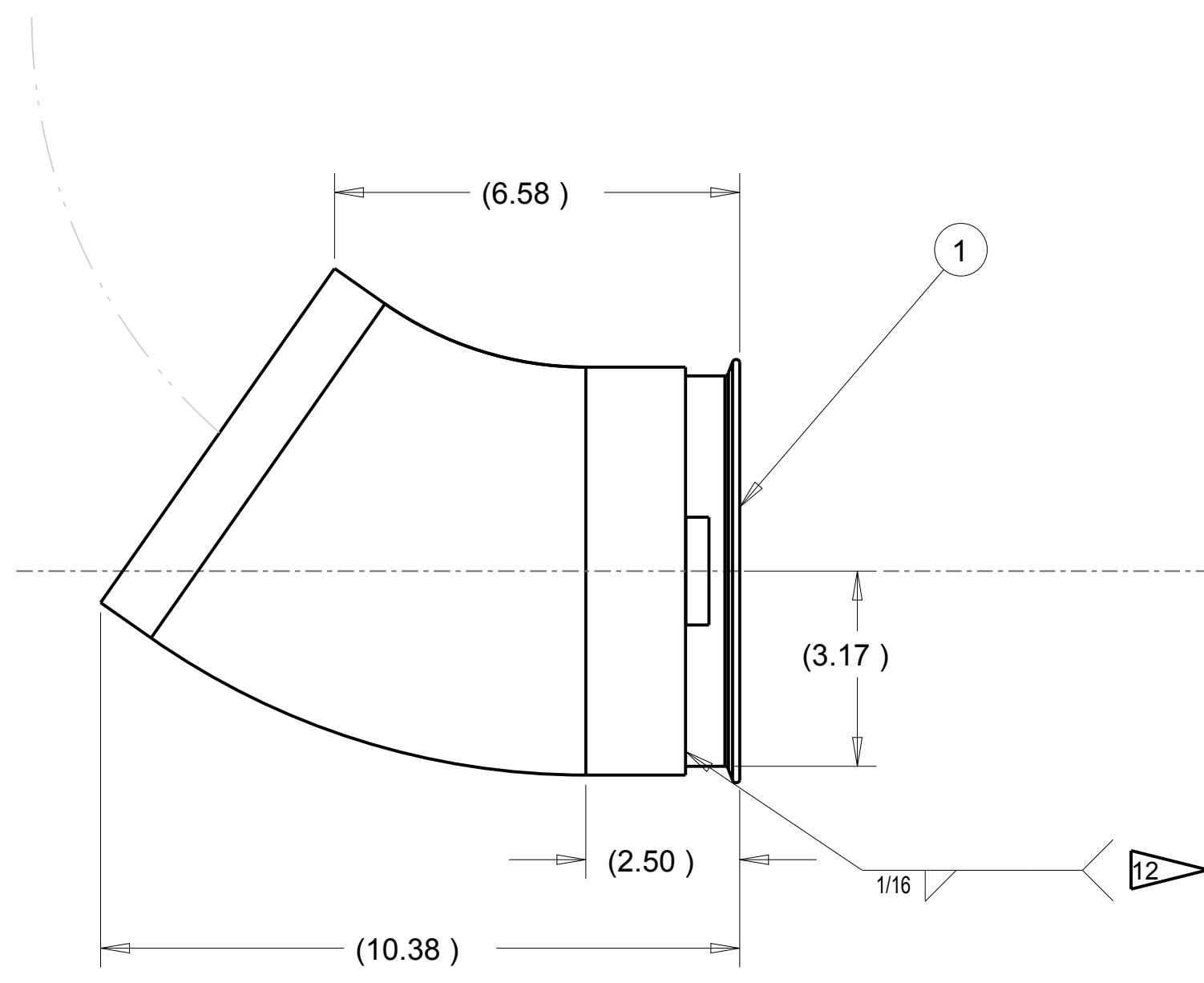
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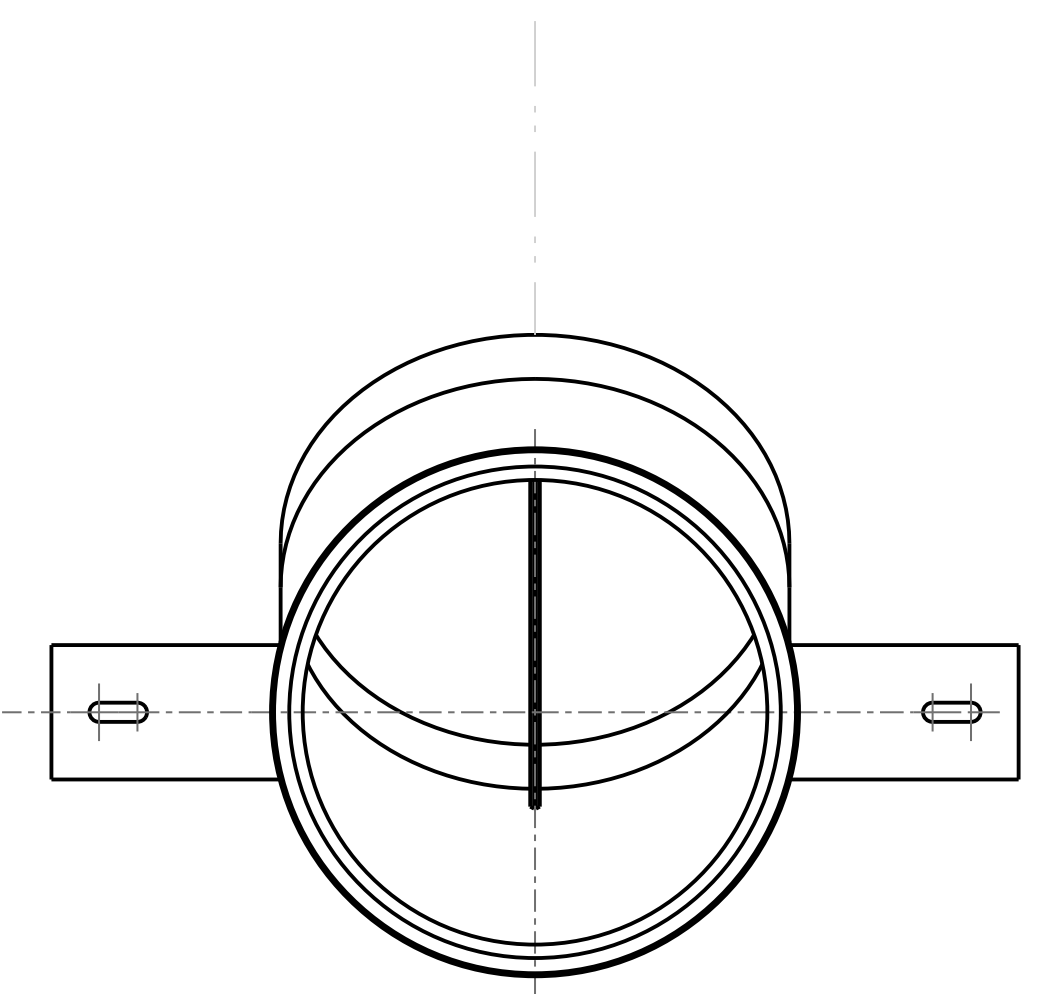
TOP VIEW



FRONT VIEW

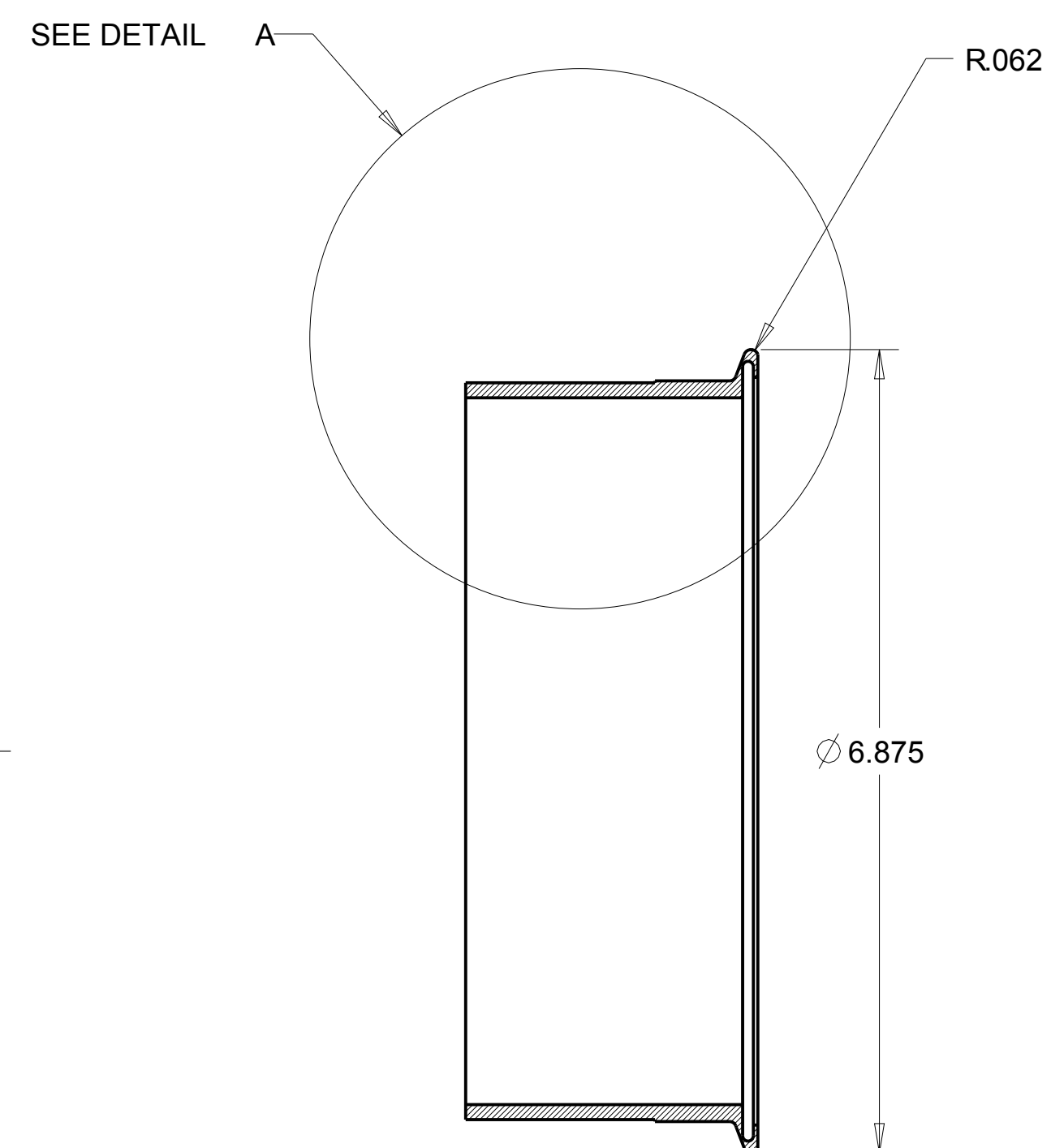
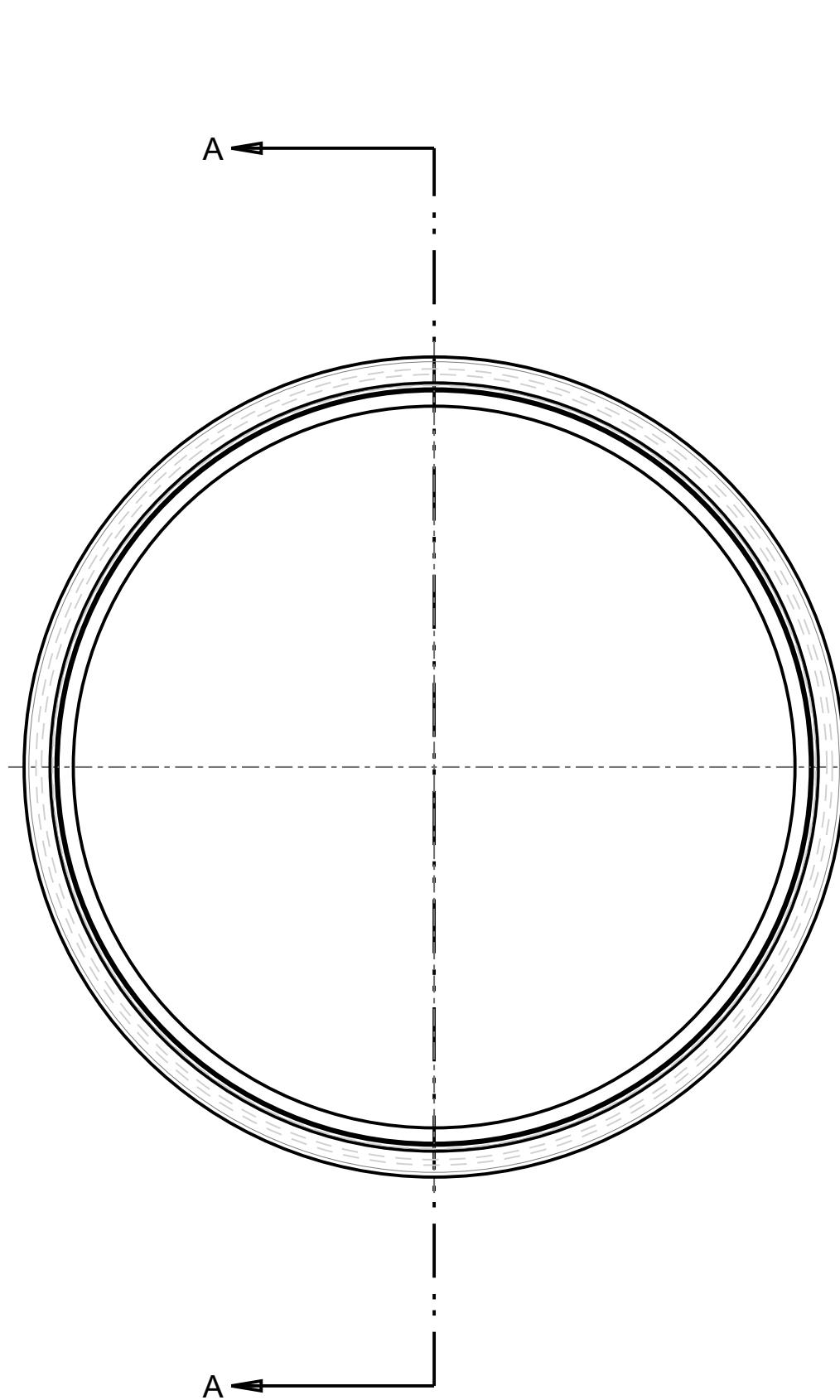


LEFT VIEW



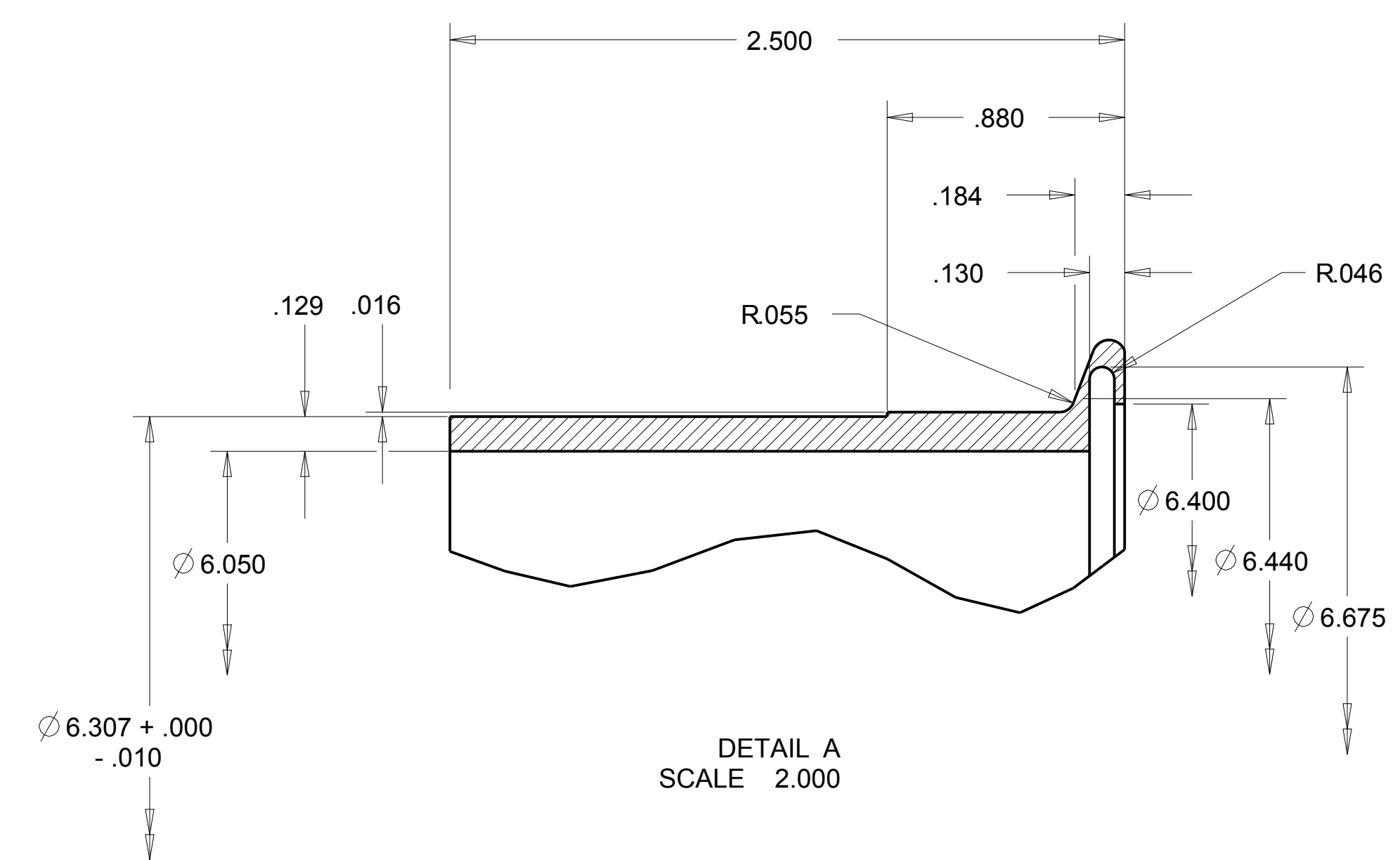
BACK VIEW

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032304	REV
FOR OFFICIAL USE ONLY		D	81996			X
SCALE	0.400	WEIGHT	- LBS	SHEET	2 OF 6	



SECTION A-A

-01

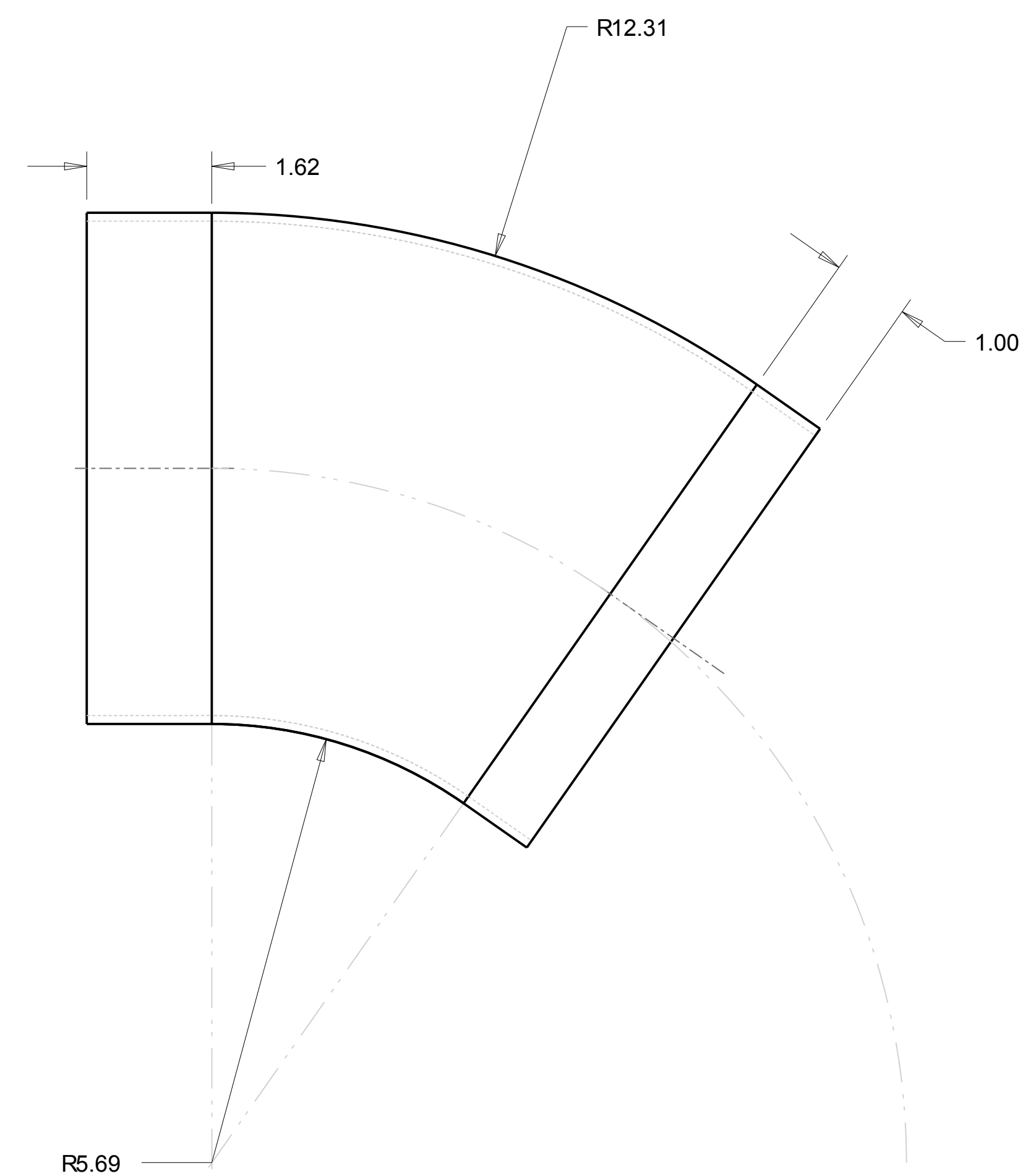
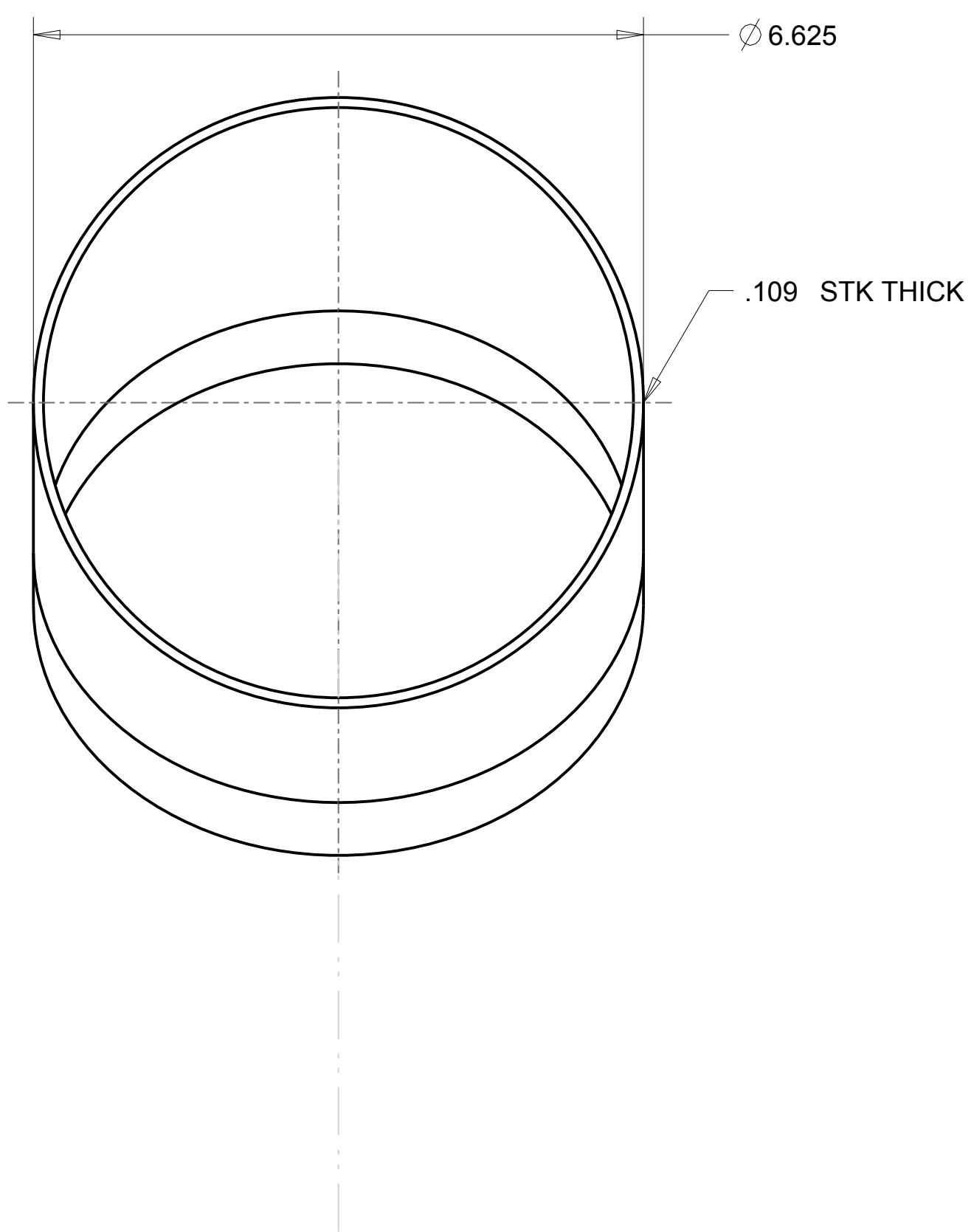


DETAIL A
SCALE 2.000

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032304	REV	X
D	81996				
SCALE	0.750	WEIGHT	- LBS	SHEET	3 OF 6



-02

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032304	REV	X
D	81996				
SCALE	0.650	WEIGHT	- LBS	SHEET	4 OF 6

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RELEASE LEVEL

DWG NO

1032304

SH

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REV

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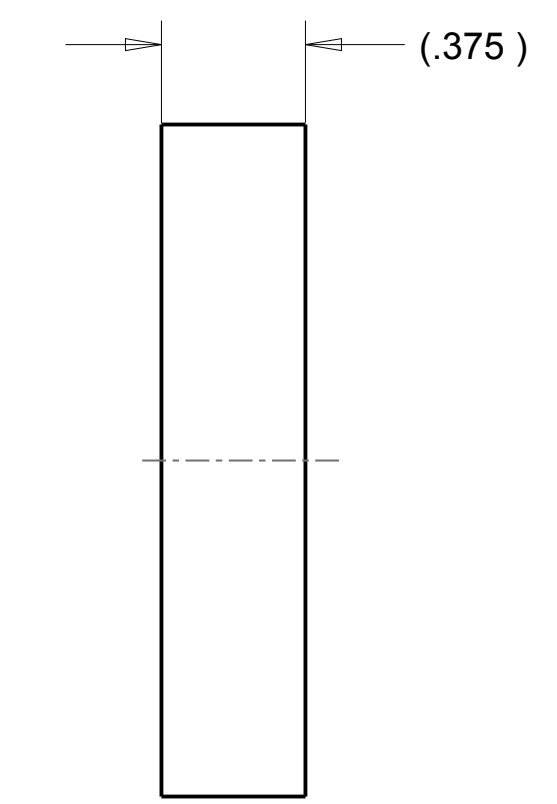
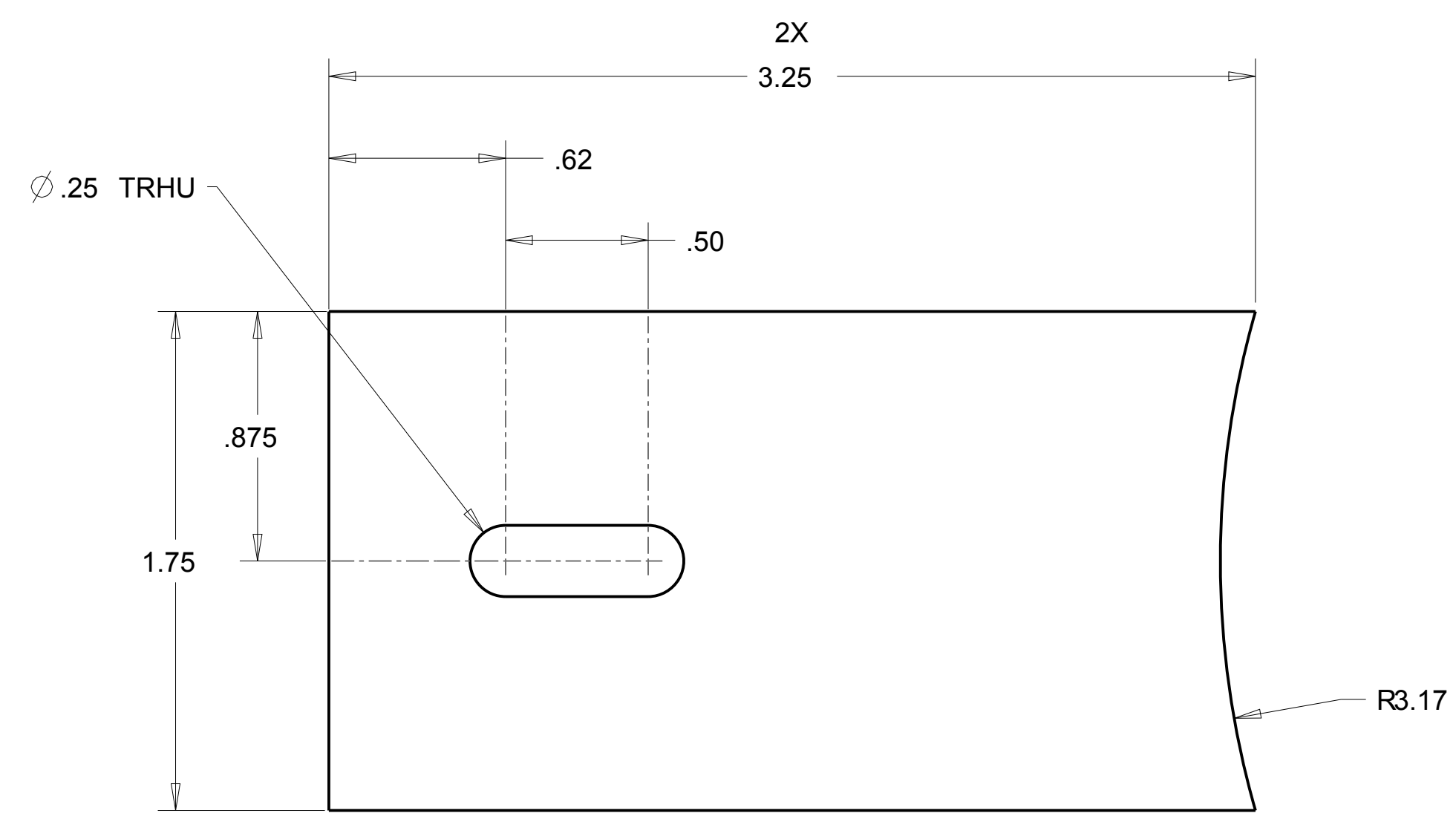
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-03

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1032304	X
SCALE	2.000	WEIGHT	- LBS	SHEET	5 OF 6

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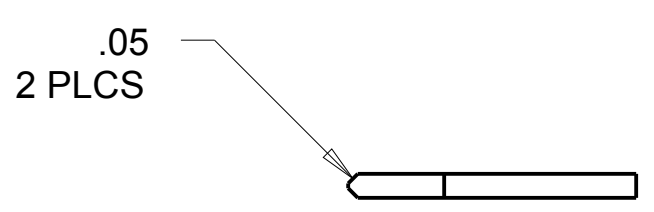
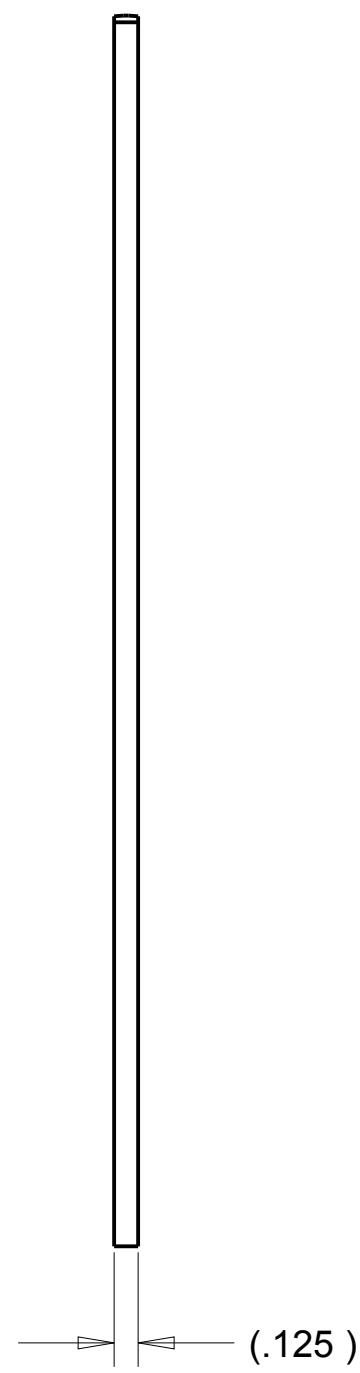
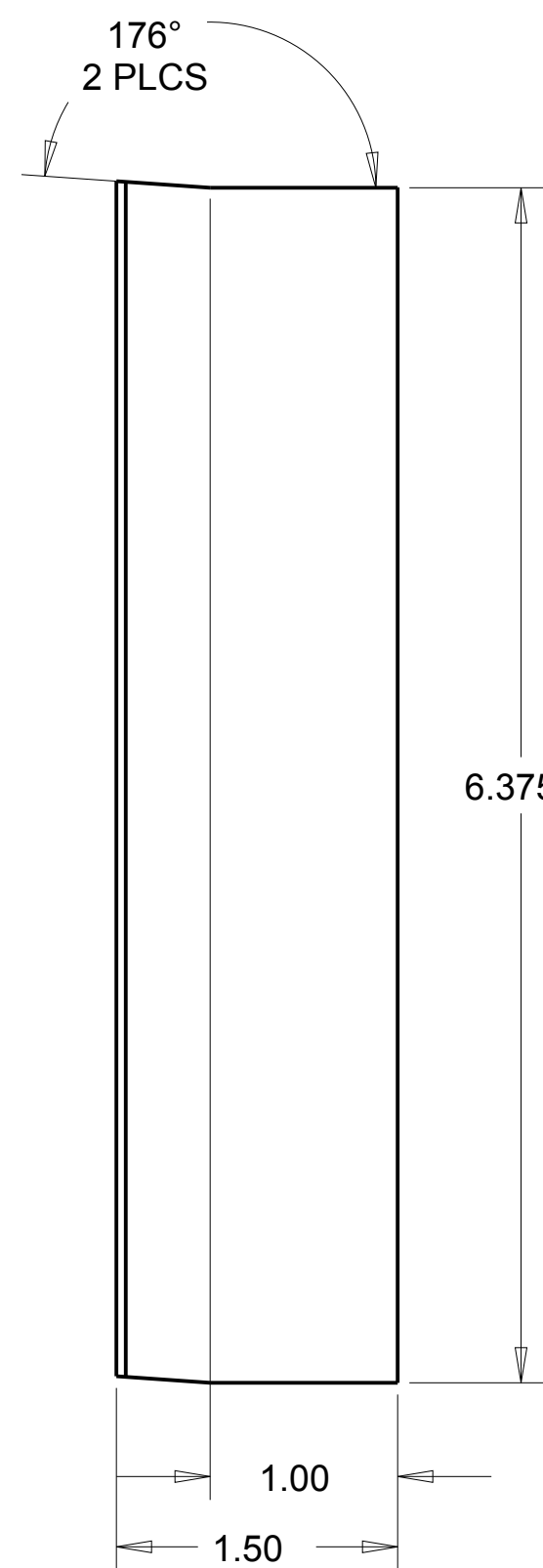
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-04

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	REV
D	81996	1032304	X
SCALE	1.000	WEIGHT	- LBS SHEET
			6 OF 6

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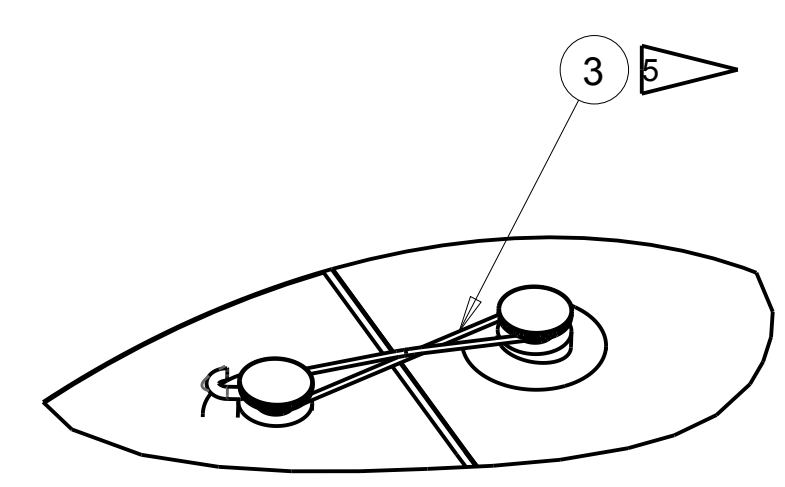
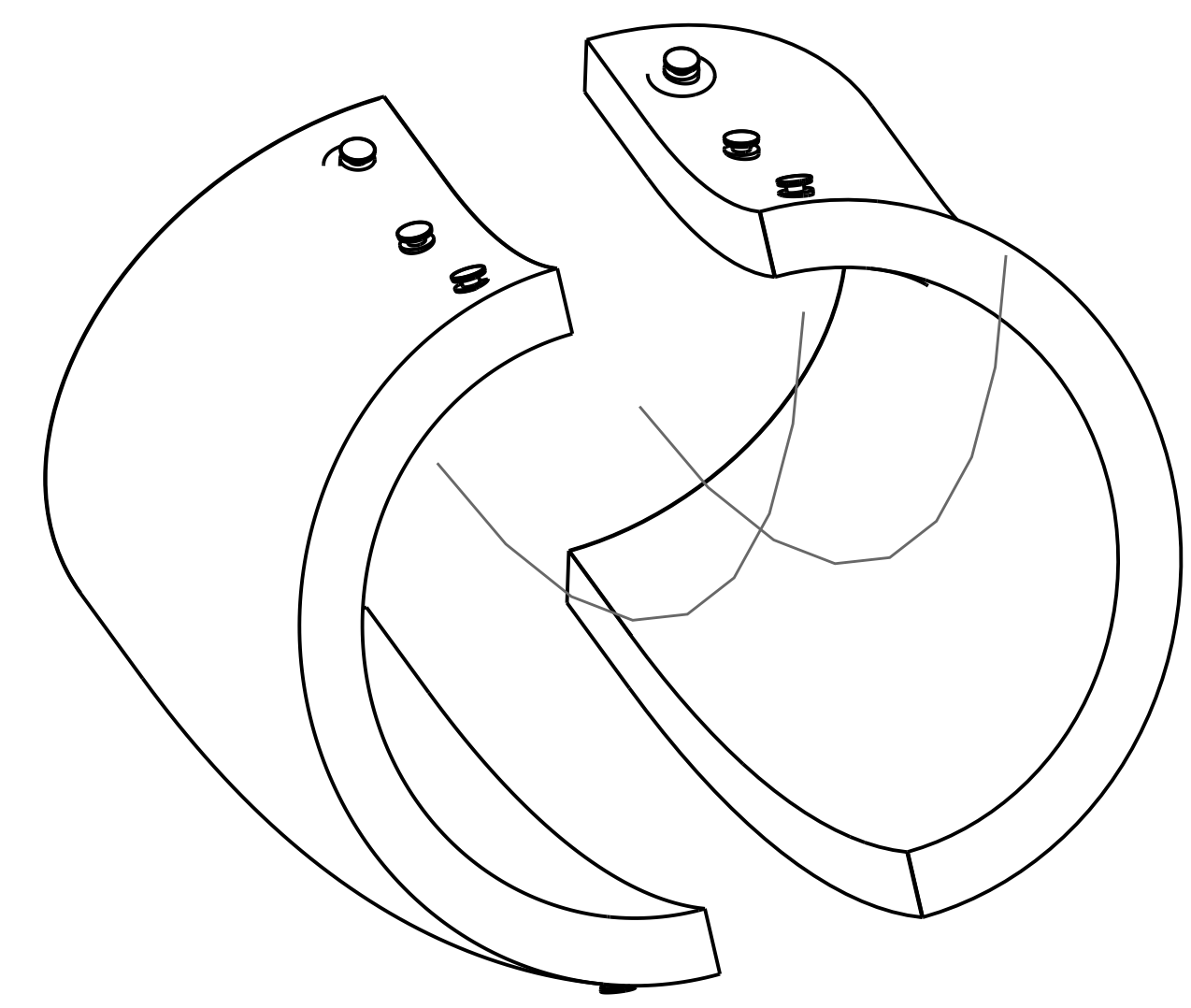
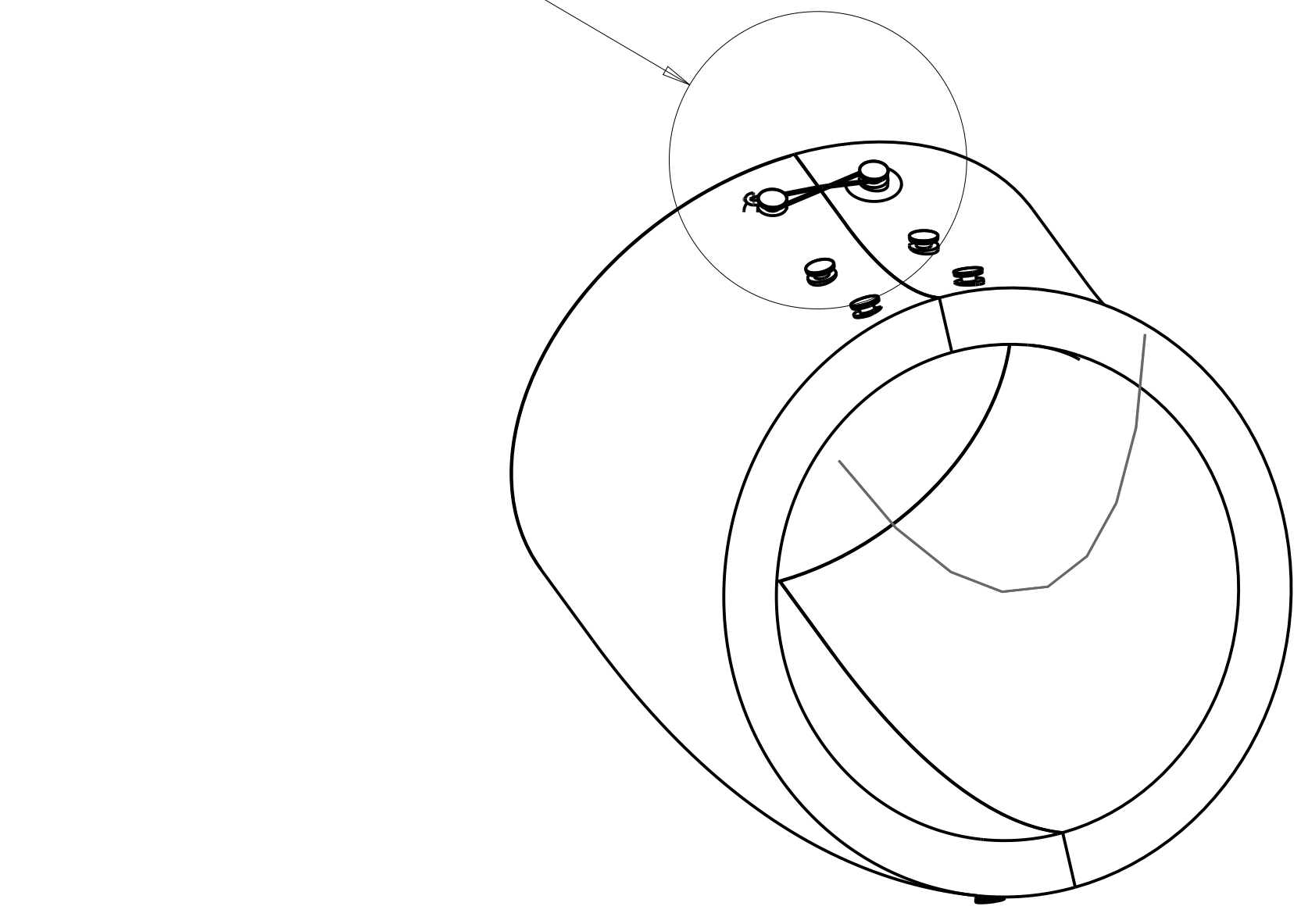
NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. NO DEVIATIONS FROM DRAWING WITHOUT PRIOR APPROVAL FROM PROJECT ENGINEER.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
4. ITEMS 1 AND 2 ARE USED AT ASSEMBLY 1025977 LEVEL.
5. LACING SHOULD BE STARTED AT CENTER OF PART, MOVING UP AND DOWN ON SIDE. LACING SHOULD BE DONE IN A FIGURE 8 PATTERN, WITH 8 TWISTS PER INCH AT THE END.
6. ENSURE THAT THE FINISHED SAFETY WIRE IS TIGHT TO PREVENT FAILURE DUE TO RUBBING OR VIBRATION.
7. OVER-STRESSED SAFETY WIRE CAN BREAK UNDER VIBRATION IF TWISTED TOO TIGHTLY. SAFETY WIRE MUST BE PULLED TAUT WHEN BEING TWISTED AND MAINTAIN A LIGHT TENSION WHEN SECURED.
8. SAFETY WIRE ENDS MUST BE BENT UNDER AND INWARD TOWARD THE PART TO AVOID SHARP OR PROJECTING ENDS, WHICH MAY PRESENT A SAFETY HAZARD.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-

SEE DETAIL A



DETAIL A
SCALE 1.000

INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
3	-	9505-01-054-2676	AR	SAFETY WIRE, 0.032" DIAMETER	ASTM - A313
2	9B944	1032310	1	THERMAL INSULATION, PLENUM LEFT	-
1	9B944	1032309	1	THERMAL INSULATION, PLENUM RIGHT	-

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE PLENUM INSULATION ASSEMBLY, AGPU	
1025978 AGPU		STRESS XXX		SIZE D	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		CAGE CODE 81996	
APPLICATION		DRAWING RESTRICTIONS		DWG NO 1032308	
FOR OFFICIAL USE ONLY		DRAWING RESTRICTIONS		SCALE 0.500	
DRAWING RESTRICTIONS		DRAWING RESTRICTIONS		WEIGHT - LBS	
DRAWING RESTRICTIONS		DRAWING RESTRICTIONS		SHEET 1 OF 2	

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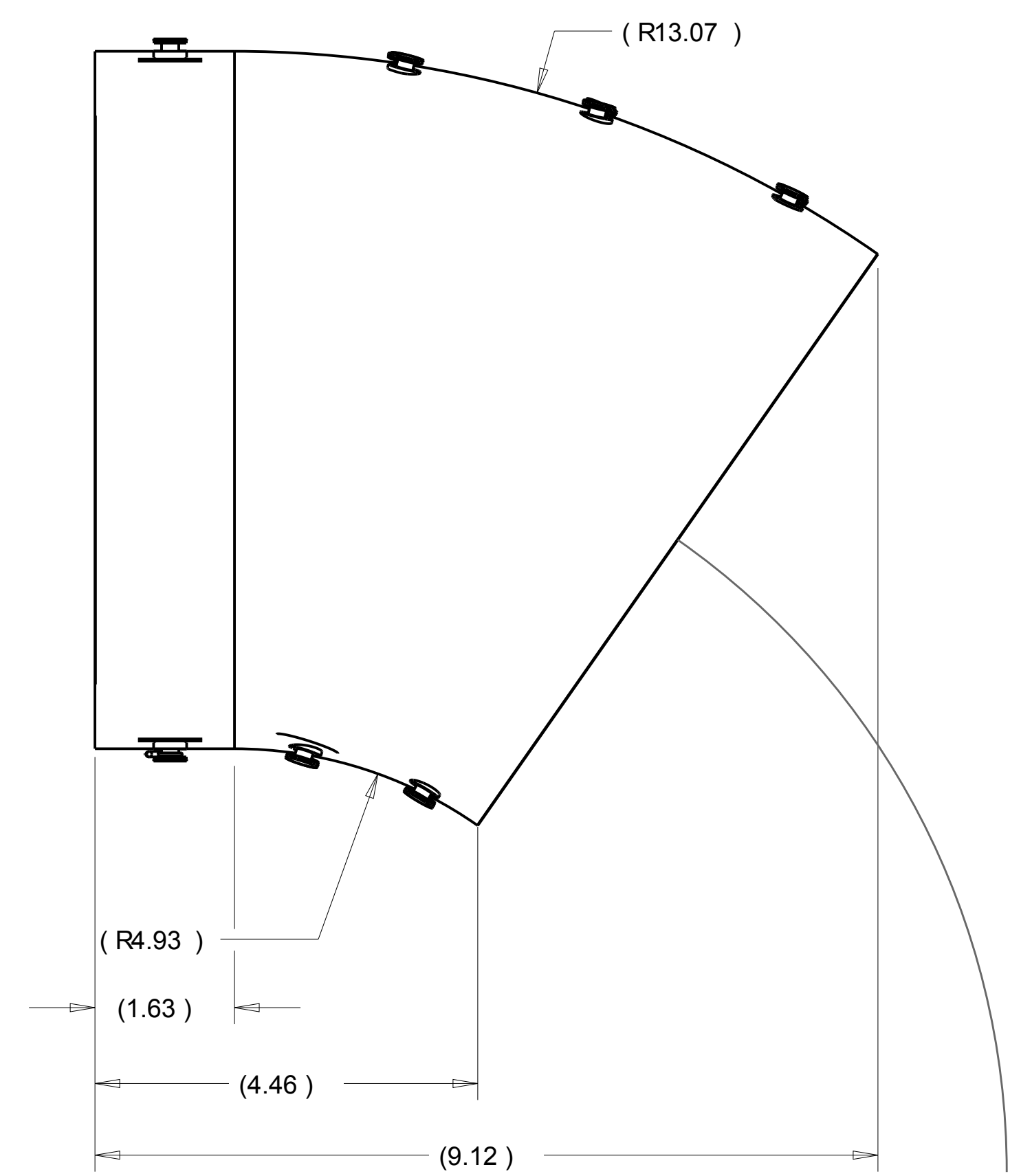
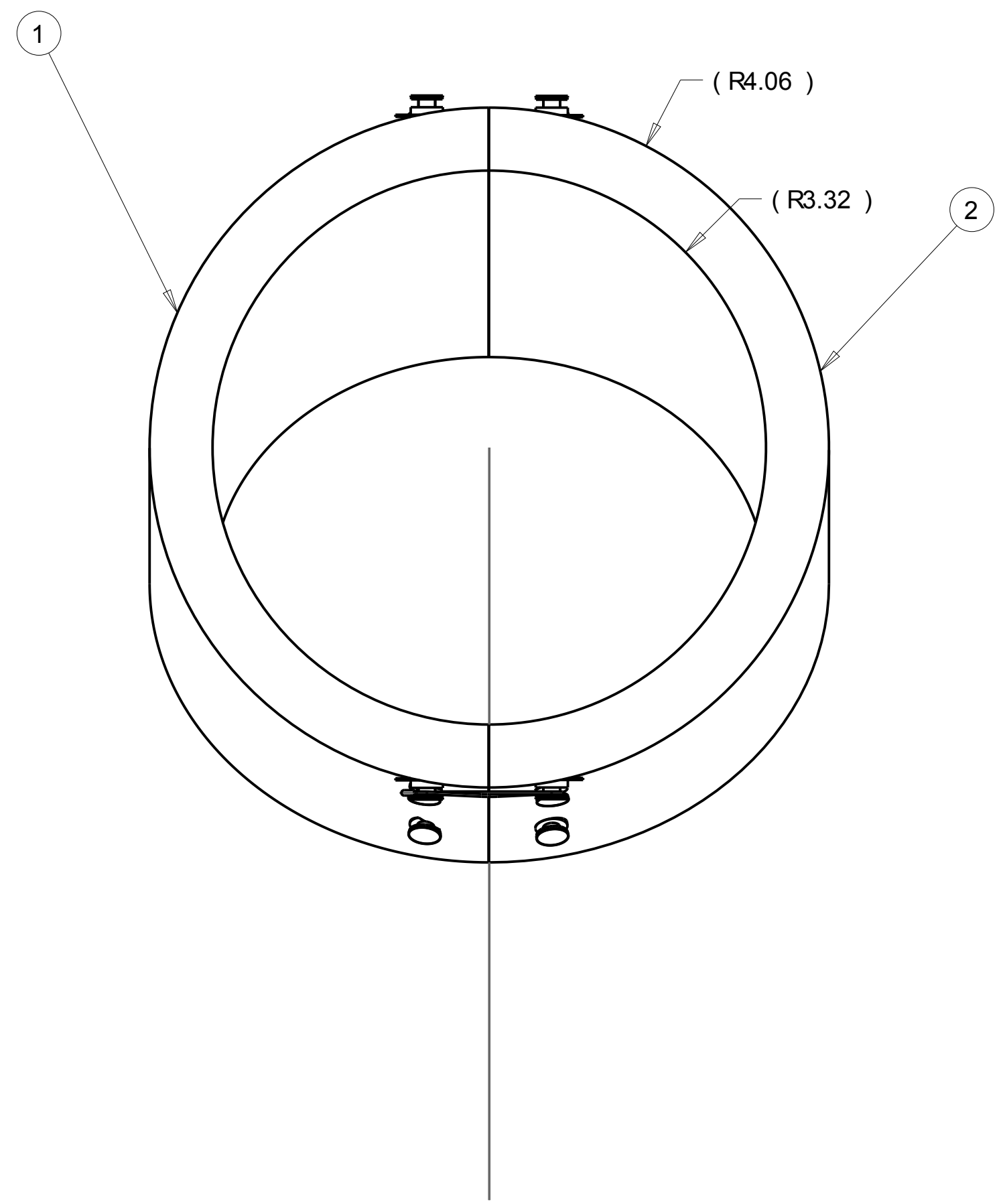
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DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032308	REV	X
D	81996				
SCALE	0.650	WEIGHT	- LBS	SHEET	2 OF 2

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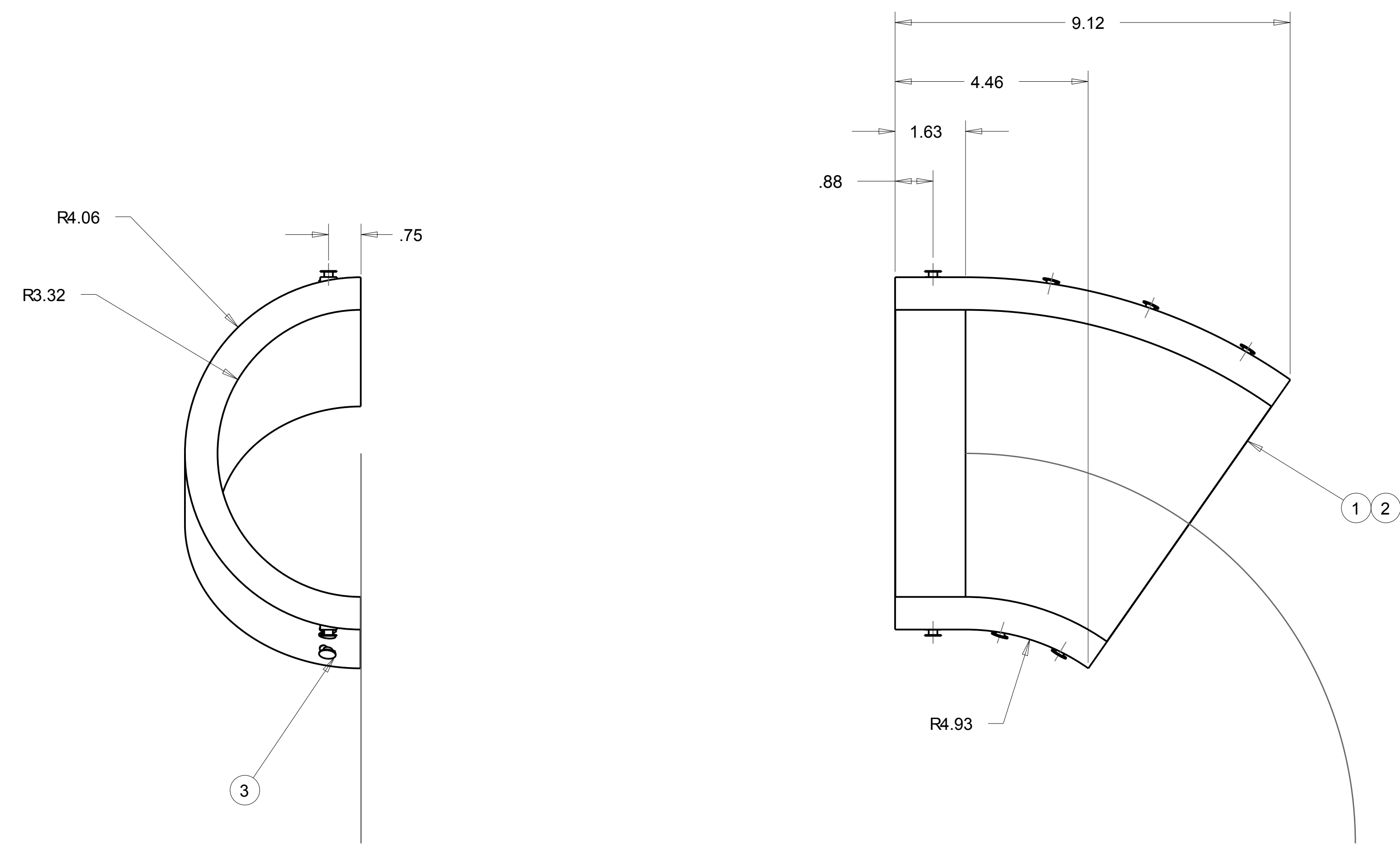
4

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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. THERE SHALL BE NO EXPOSED INSULATION.
 5. MATERIAL: 321 STAINLESS STEEL EMBOSSED FOIL, 0.002" THICK PER ASTM-A240
KAOWOOL #8, 8 LB/CU FT, CERAMIC FIBER BLANKET PER MIL-I-23128B.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
3	0X832	SS-321-DS	7	CAPSTAN RIVET	-
2	81996	1032309-2	1	SS 321 FOIL 0.002" THICK	ASTM - A240
1	81996	1032309-1	1	KAOWOOL #8 BLANKET, RIGHT	MIL-I-23138B

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE THERMAL INSULATION, PLENUM RIGHT	
1032308 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		SIZE D	
NEXT ASSY USED ON		SCALE 0.500		CAGE CODE 81996	
APPLICATION		WEIGHT - LBS		DWG NO 1032309	
		SHEET 1 OF 1		REV X	

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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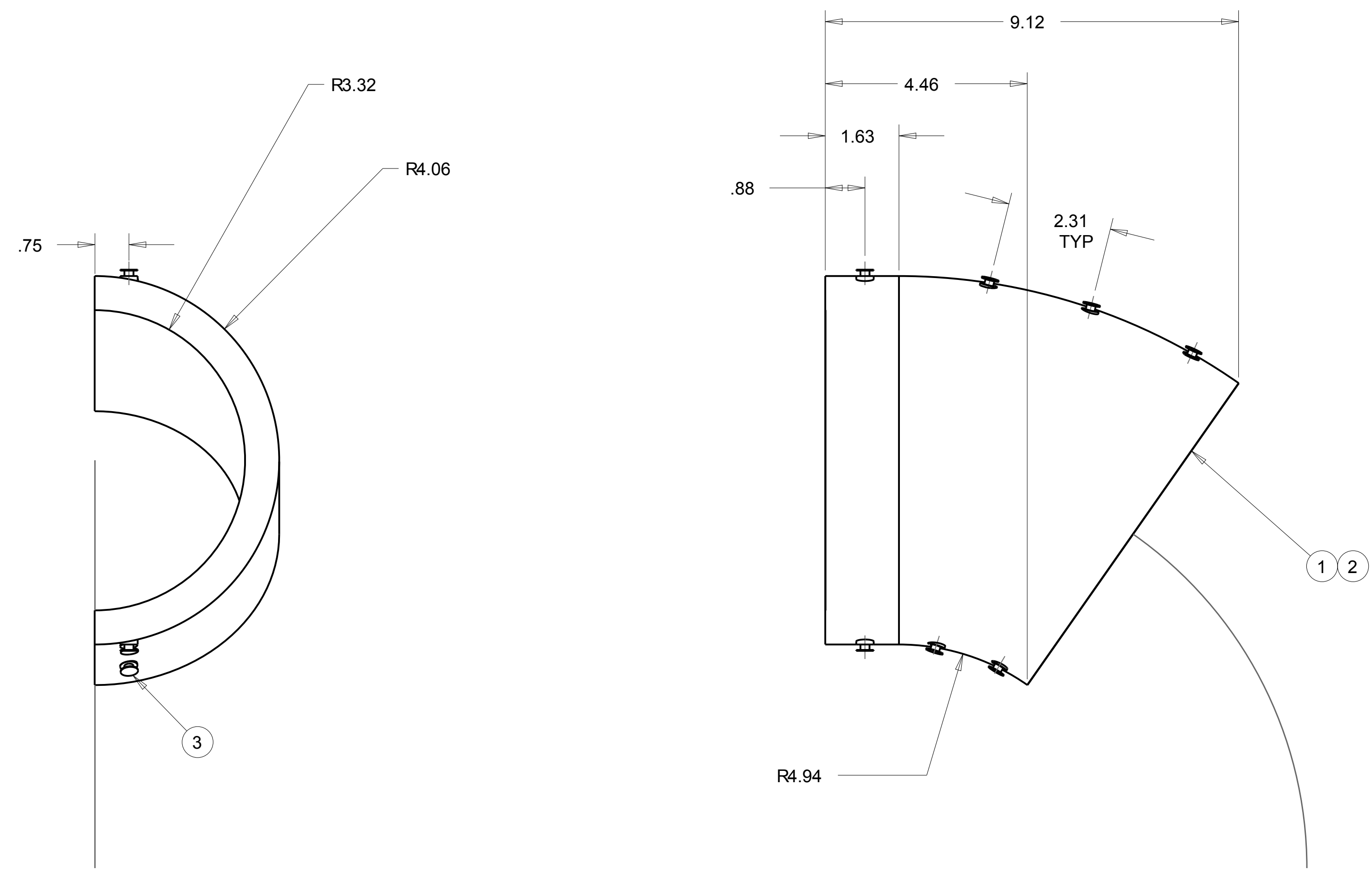
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. THERE SHALL BE NO EXPOSED INSULATION.
 5. MATERIAL: 321 STAINLESS STEEL EMBOSSED FOIL, 0.002" THICK PER ASTM-A240 KAOWOOL #8, 8 LB/CU FT, CERAMIC FIBER BLANKET PER MIL-I-23128B.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
3	0X832	SS-321-DS	7	CAPSTAN RIVET	-
2	81996	1032310-2	1	SS 321 FOIL .002" THICK	ASTM - A240
1	81996	1032310-1	1	KAOWOOL #8 BLANKET, LEFT	MIL-I-23128B

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA			
1032308 AGPU		STRESS XXX		THERMAL INSULATION, PLENUM LEFT	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN			
APPLICATION		SIZE D		CAGE CODE 81996	DWG NO 1032310
DRAWING RESTRICTIONS		SCALE 0.500		WEIGHT - LBS	SHEET 1 OF 1

FOR OFFICIAL USE ONLY

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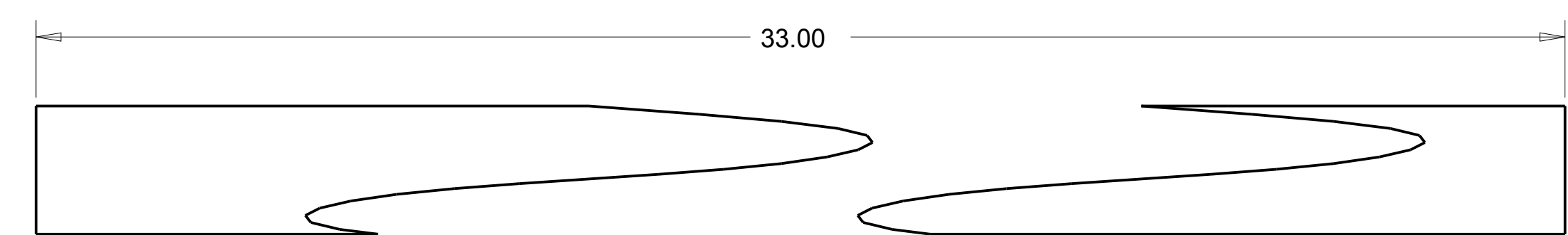
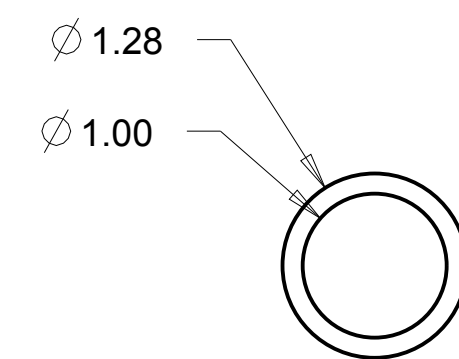
RELEASE LEVEL DWG NO 1032311 SH 1 REV X

NOTES:

- 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
- 2. MATERIAL: MAKE FROM DOUBLE-PLY, SILICONE-COATED WOVEN FIBERGLASS HOSE PER MIL-Y-1140, ASTM-A227 AND ASTM-A818; MANUFACTURED BY FLEXFAB LLC.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



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-	-	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01	CONTRACT NO W31P4Q-05-C-0136	U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
-	-		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE HOSE, BLEED AIR
-	-		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		STRESS XXX
-	-		1025977	AGPU	SIZE D
-	-		NEXT ASSY	USED ON	CAGE CODE 81996
-	-		APPLICATION		DWG NO 1032311
DRAWING RESTRICTIONS		THIRD ANGLE PROJECTION		REV X	
FOR OFFICIAL USE ONLY				SCALE 0.750	
				WEIGHT - LBS	
				SHEET 1 OF 1	

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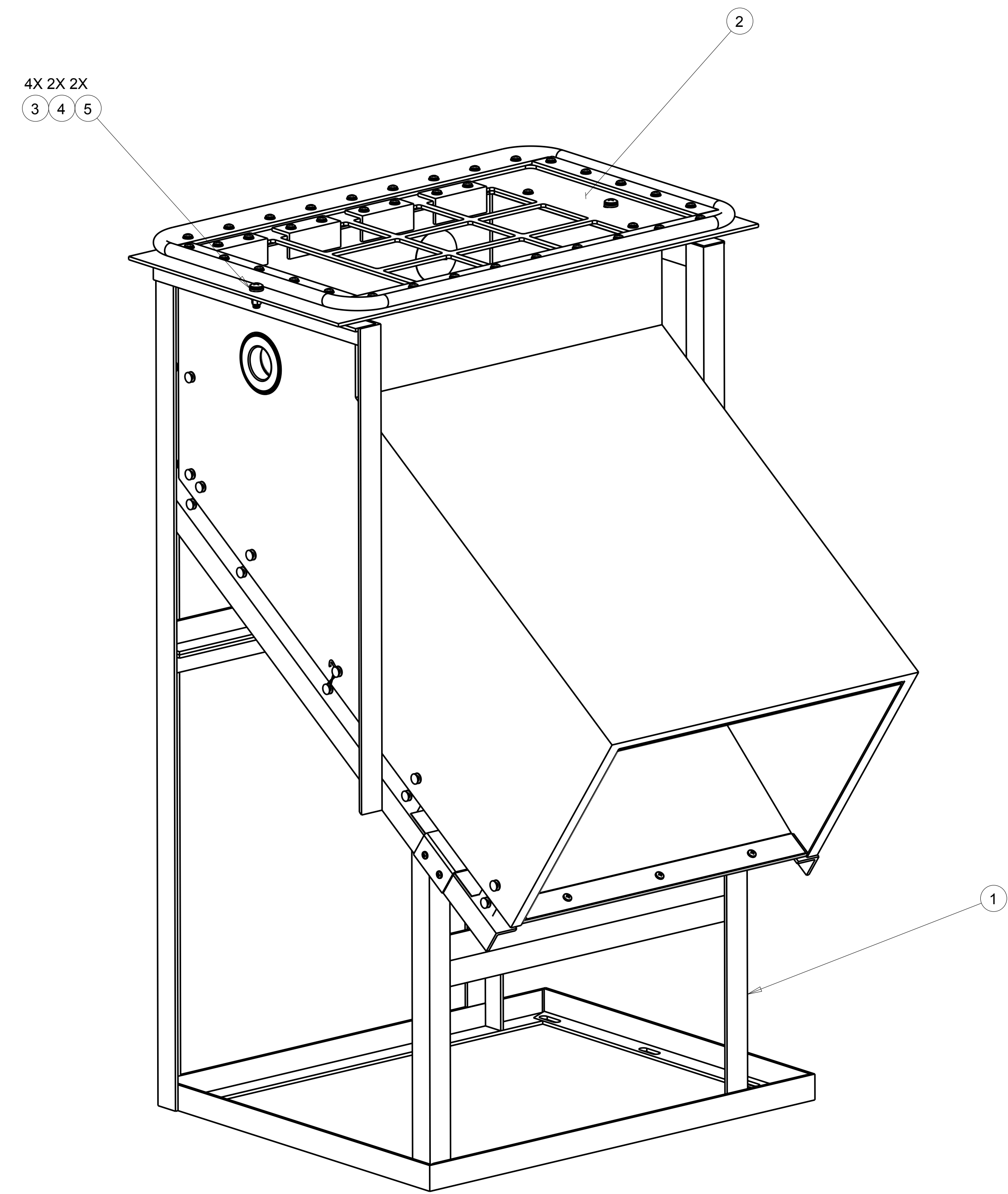
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NOTES:
 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
5	07BY4	MS51972-1	2	NUT, HEX, 1/4-28	-
4	07BY4	91400A853	2	SCREW, MACHINE, PAN HEAD, 1/4-28, 0.750 INCH LONG	-
3	39428	015475312	4	WASHER, FLAT, 1/4	-
2	81996	1032328	1	EJECTOR ASSEMBLY	-
1	81996	1032313	1	EJECTOR FRAME ASSEMBLY	-

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA		TITLE EJECTOR ASSEMBLY, AGPU EXHAUST	
1025963 AGPU		STRESS XXX		CHECKER JIM SEAQUIST	
NEXT ASSY USED ON		MANAGER SUE O'BRIEN		SIZE D	
APPLICATION		SCALE 0.350		CAGE CODE 81996	
		DWG NO 1032312		REV X	
		WEIGHT - LBS		SHEET 1 OF 1	

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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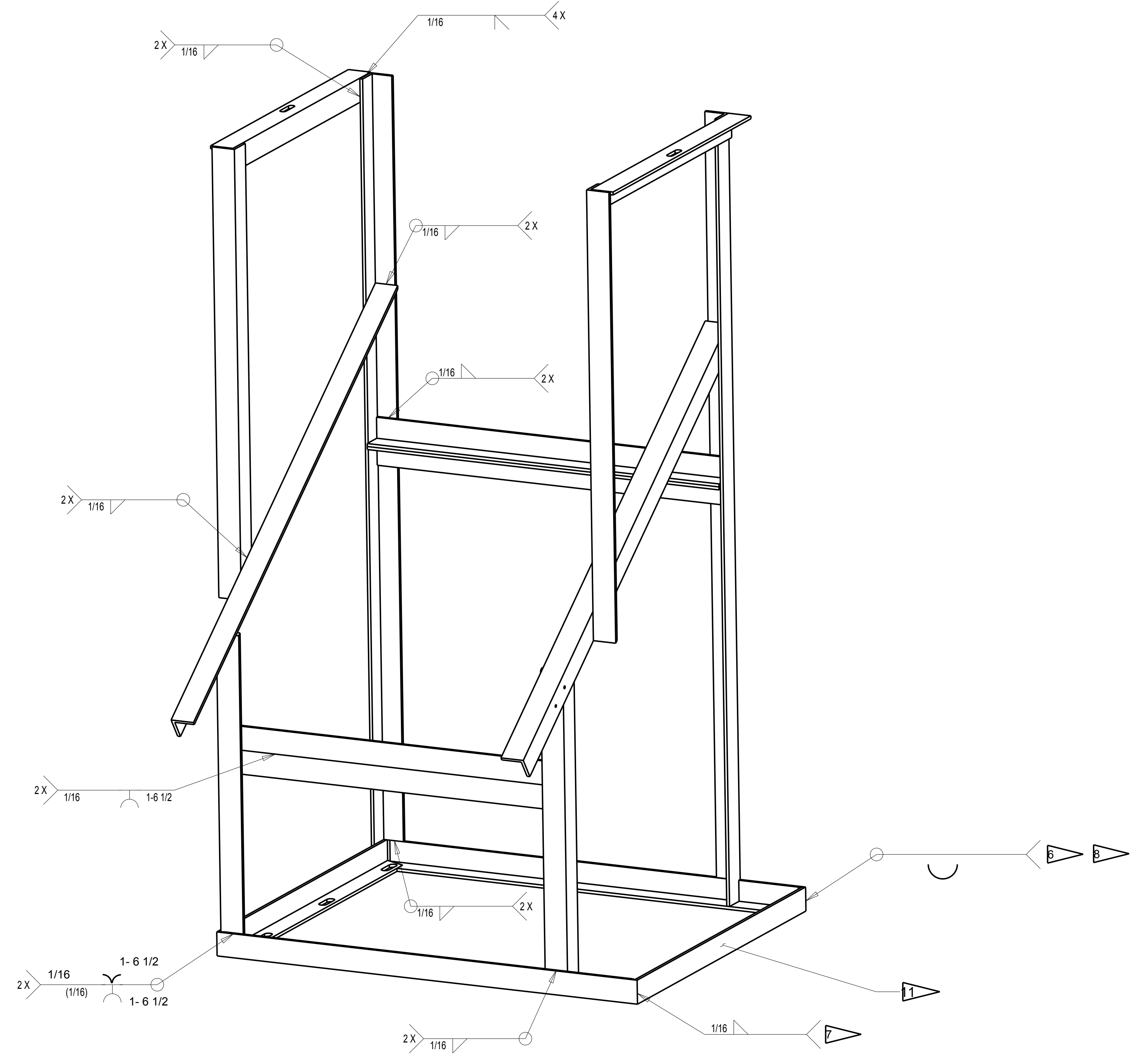
3

NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. REMOVE ALL BURRS AND BREAK SHARP EDGES.
3. SURFACE FINISH OR BETTER.
4. ALL WELDING NOTES AND SYMBOLS IN ACCORDANCE WITH AWS A2.4.
5. WELD ALL ACCESSIBLE JOINTS PER AWS-D17.1. VISUALLY INSPECT ONLY.
6. EXCEPT INSIDE CORNERS. MOUNTING SURFACE TO BE GROUND FLUSH.
7. INSIDE CORNERS (3X).
8. ALL WELDS IN AREAS OF SLOTS TO BE GROUND FLUSH.
9. MATERIAL: 304 STAINLESS STEEL PER ASTM-A276, 0.125" THICK STOCK SHEET AND 1.00" X 1.00" X .125" STOCK ANGLE.
10. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
11. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
16	07BY4	91772A144	4	SCREW, MACHINE, PAN HEAD, 6-32, 0.250 INCH LONG	-
15	81996	1032313-15	2	STOPPER, EJECTOR	-
14	81996	1032313-14	2	ANGLE 14, FRAME, EJECTOR	ASTM - A276
13	81996	1032313-13	2	ANGLE 13, FRAME, EJECTOR	ASTM - A276
12	81996	1032313-12	1	ANGLE 12, FRAME, EJECTOR	ASTM - A276
11	81996	1032313-11	1	ANGLE 11, FRAME, EJECTOR	ASTM - A276
10	81996	1032313-10	1	ANGLE 10, FRAME, EJECTOR	ASTM - A276
9	81996	1032313-9	1	ANGLE 9, FRAME, EJECTOR	ASTM - A276
8	81996	1032313-8	2	ANGLE 8, FRAME, EJECTOR	ASTM - A276
7	81996	1032313-7	1	ANGLE 7, FRAME, EJECTOR	ASTM - A276
6	81996	1032313-6	1	ANGLE 6, FRAME, EJECTOR	ASTM - A276
5	81996	1032313-5	1	ANGLE 5, FRAME, EJECTOR	ASTM - A276
4	81996	1032313-4	1	ANGLE 4, FRAME, EJECTOR	ASTM - A276
3	81996	1032313-3	2	ANGLE 3, FRAME, EJECTOR	ASTM - A276
2	81996	1032313-2	1	ANGLE 2, FRAME, EJECTOR	ASTM - A276
1	81996	1032313-1	1	ANGLE 1, FRAME, EJECTOR	ASTM - A276

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEERBOGDAN GHITA			
1032312 AGPU		STRESS XXX		EJECTOR FRAME ASSEMBLY, AGPU	
NEXT ASSY USED ON		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN			
APPLICATION		SIZE D	CAGE CODE 81996	DWG NO 1032313	REV X
		SCALE 0.350	WEIGHT - LBS	SHEET 1 OF 18	

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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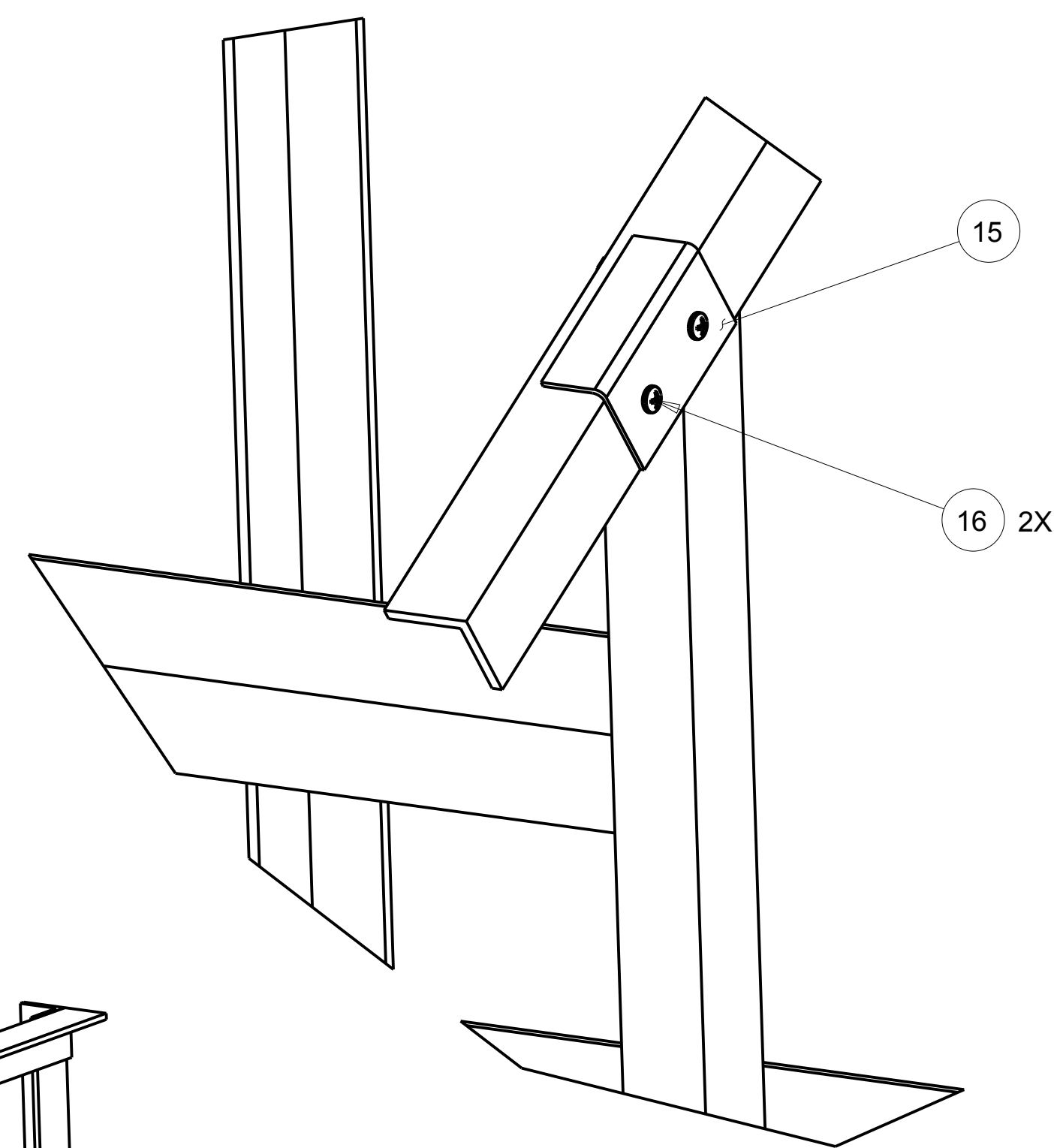
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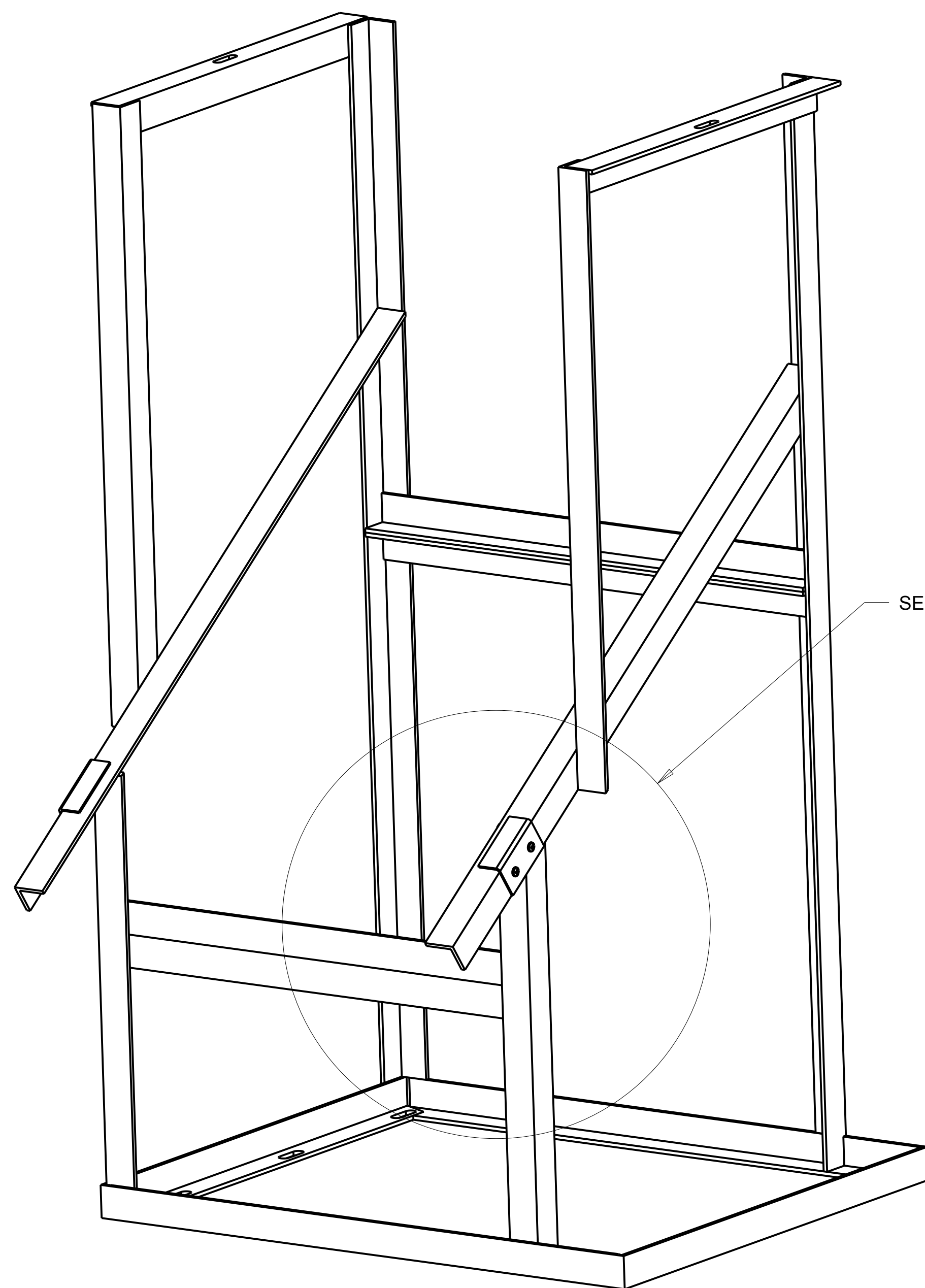
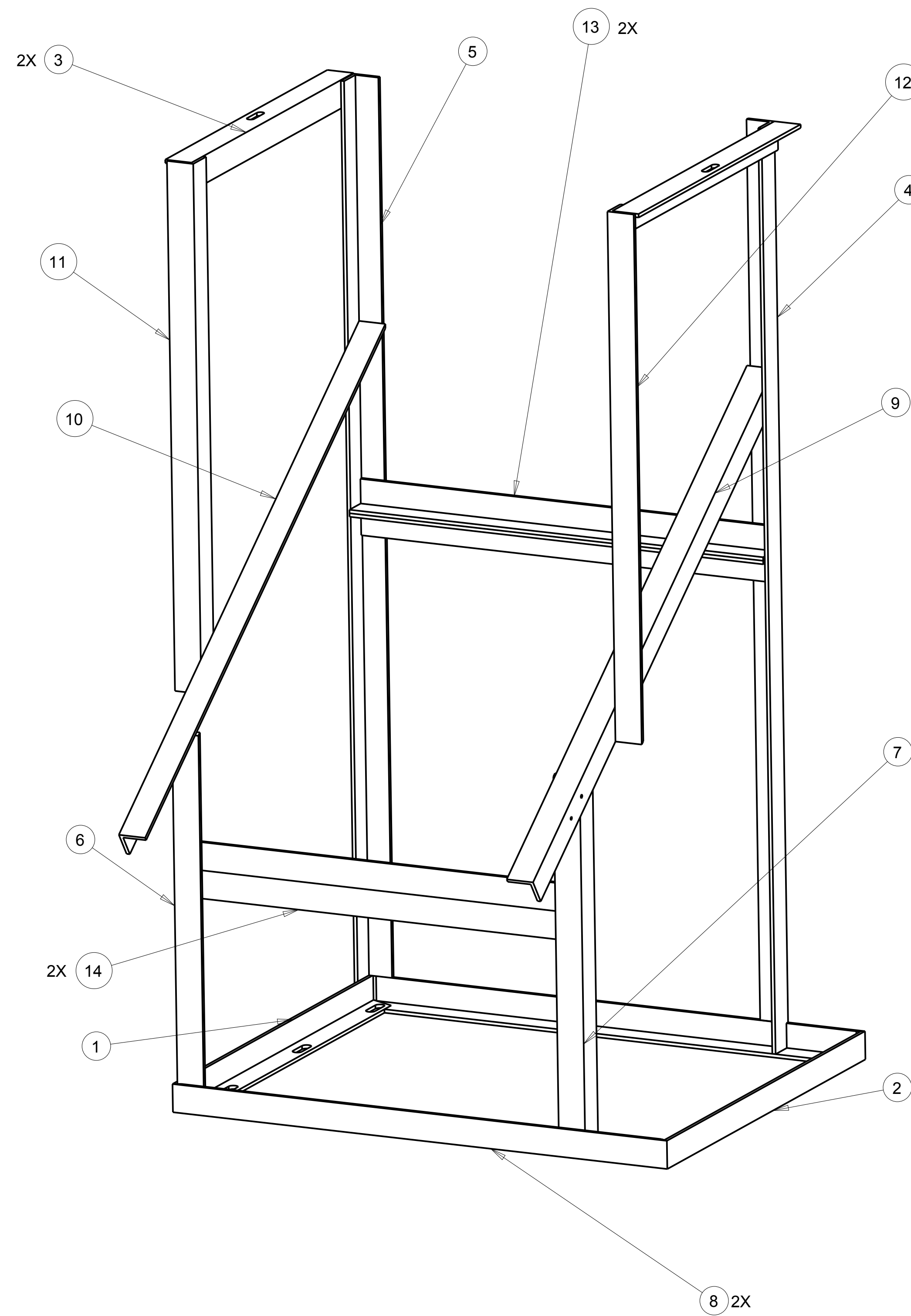
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DETAIL A
SCALE 0.700
2 PLACES

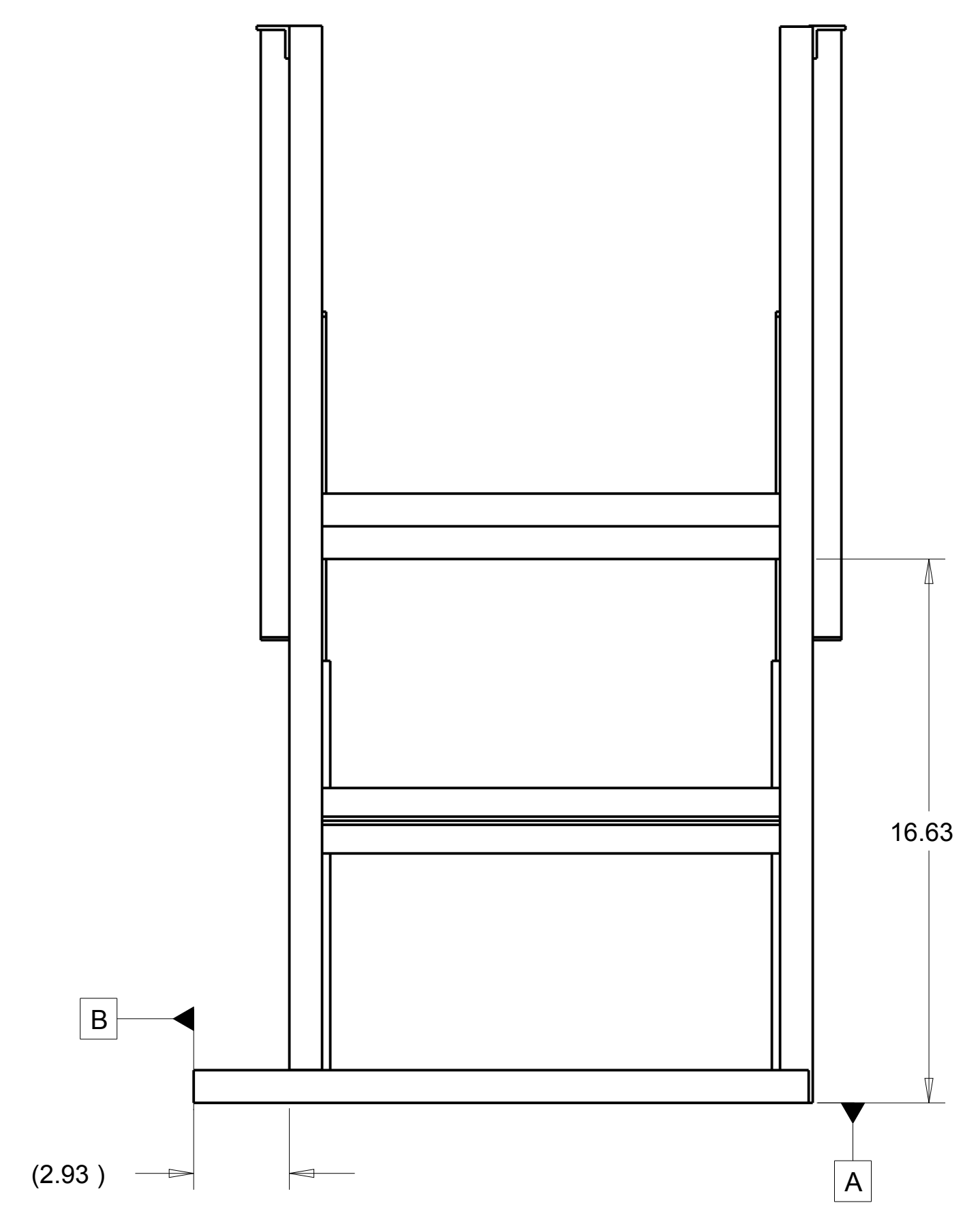
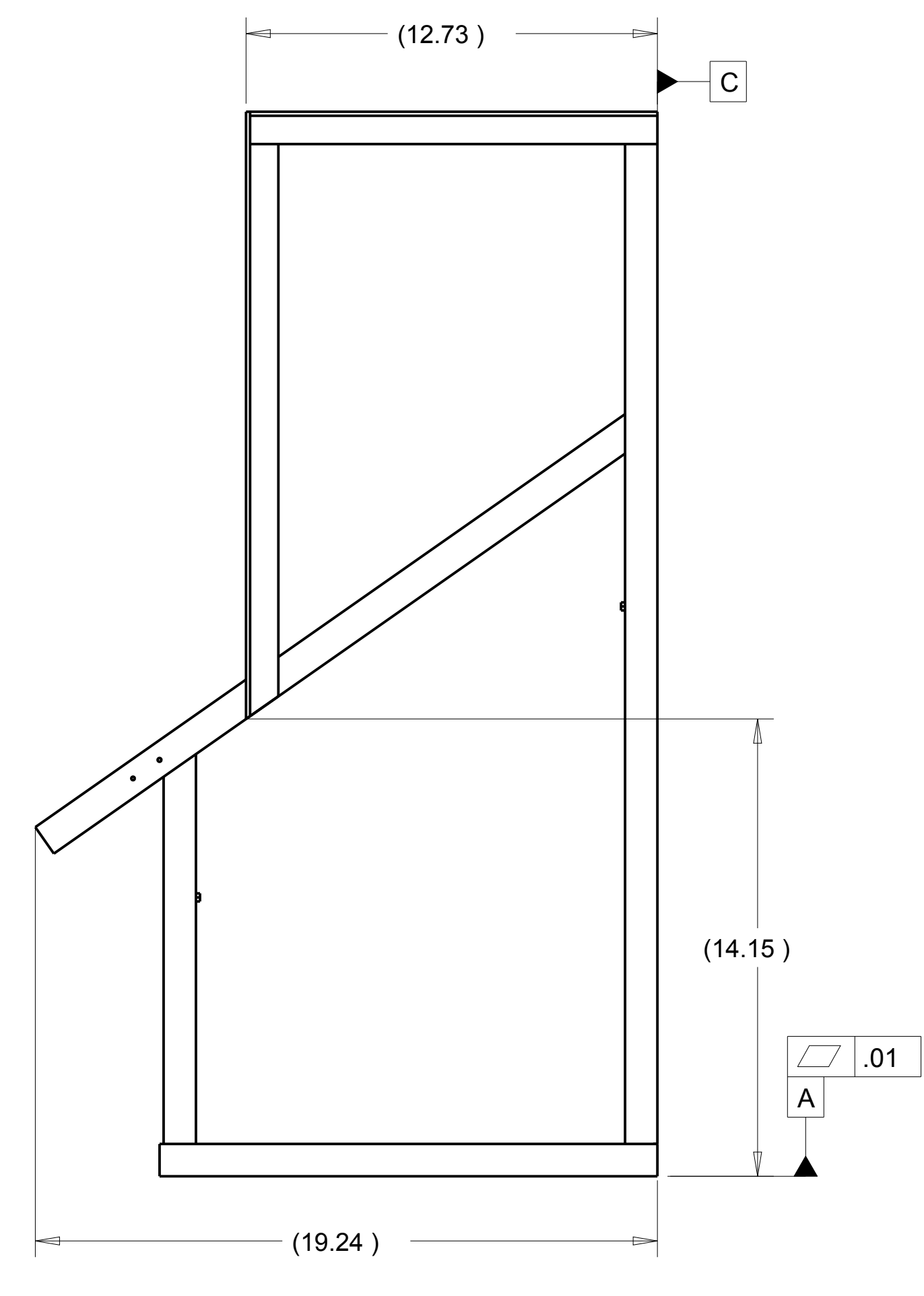
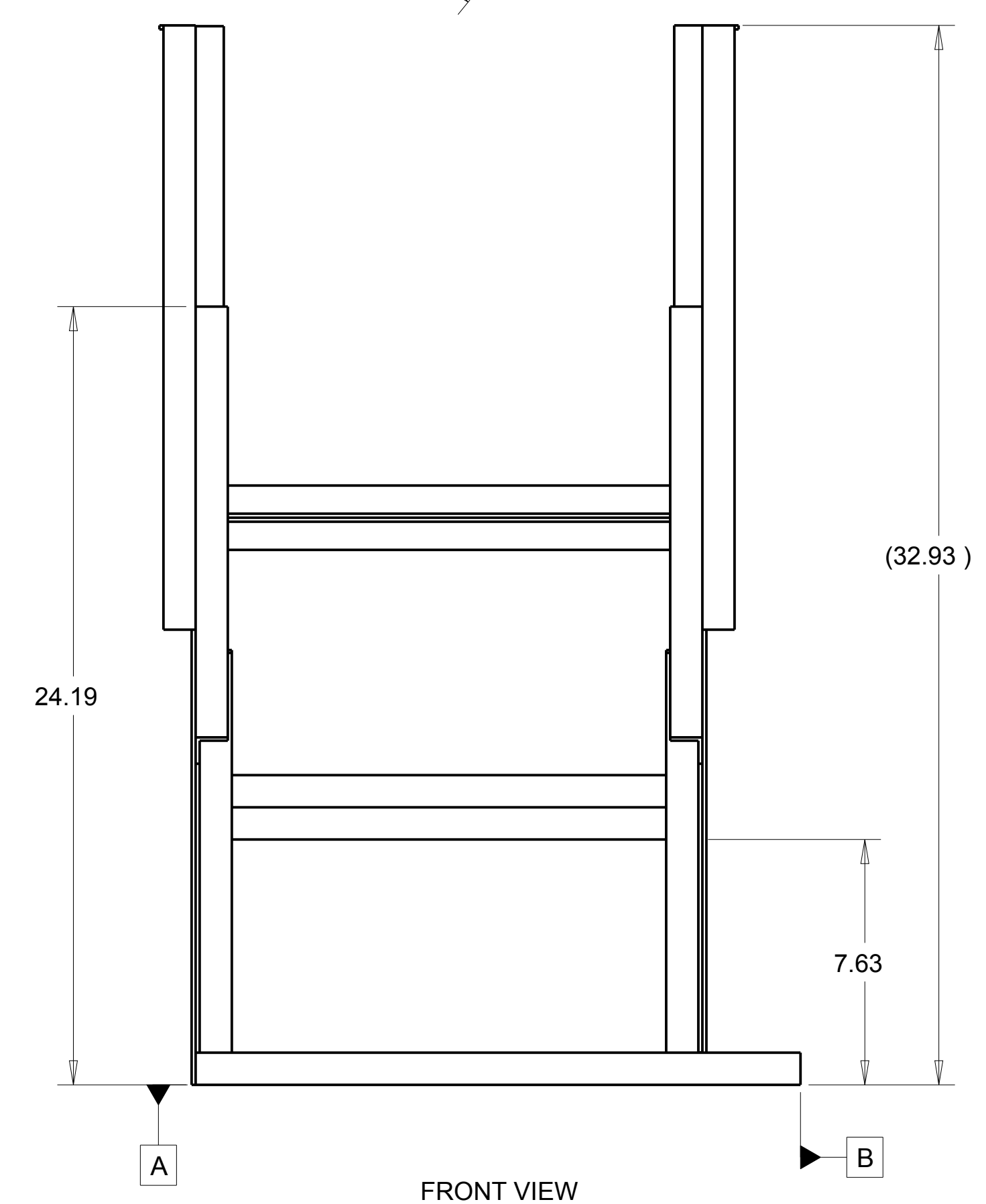
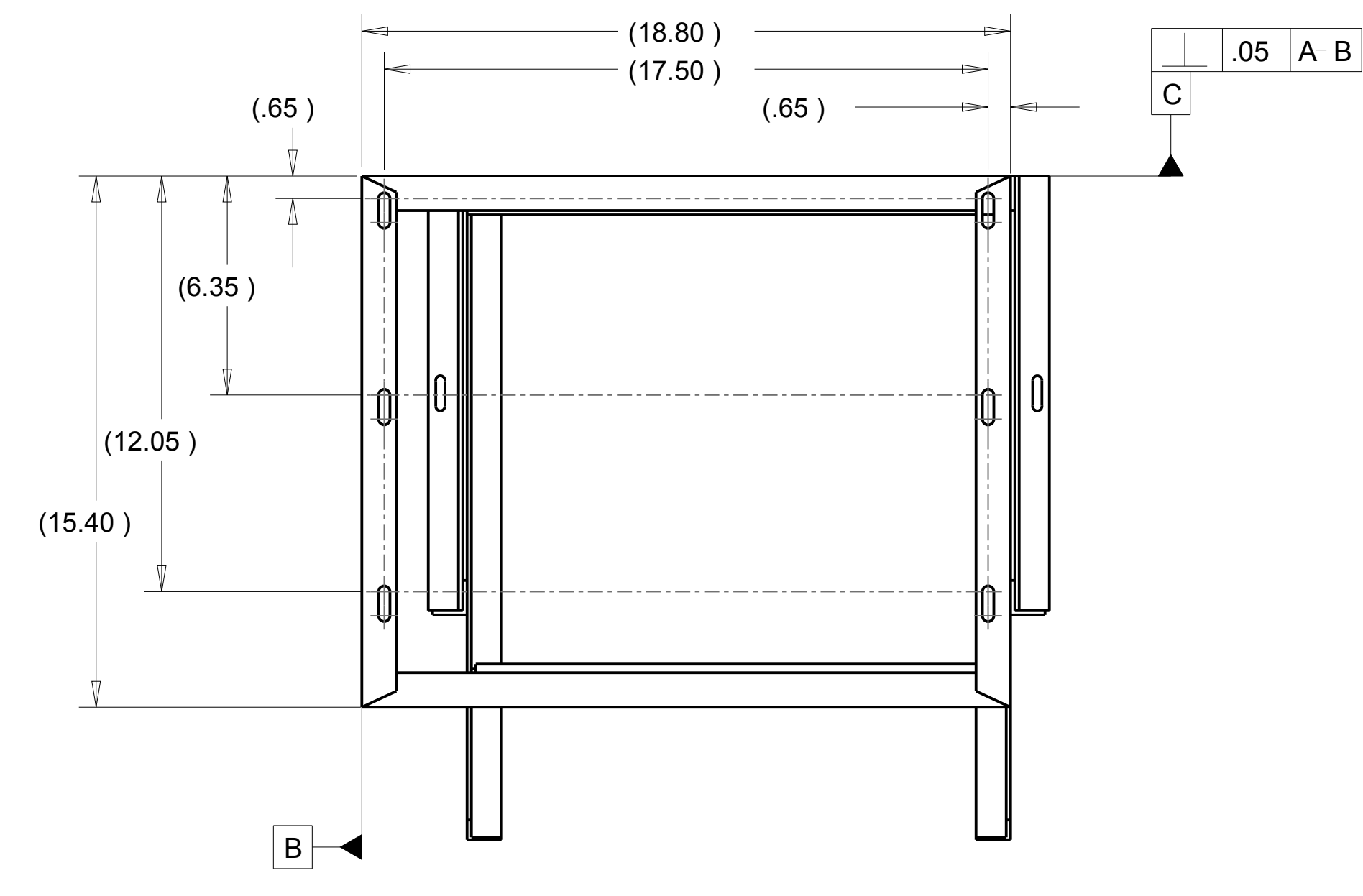
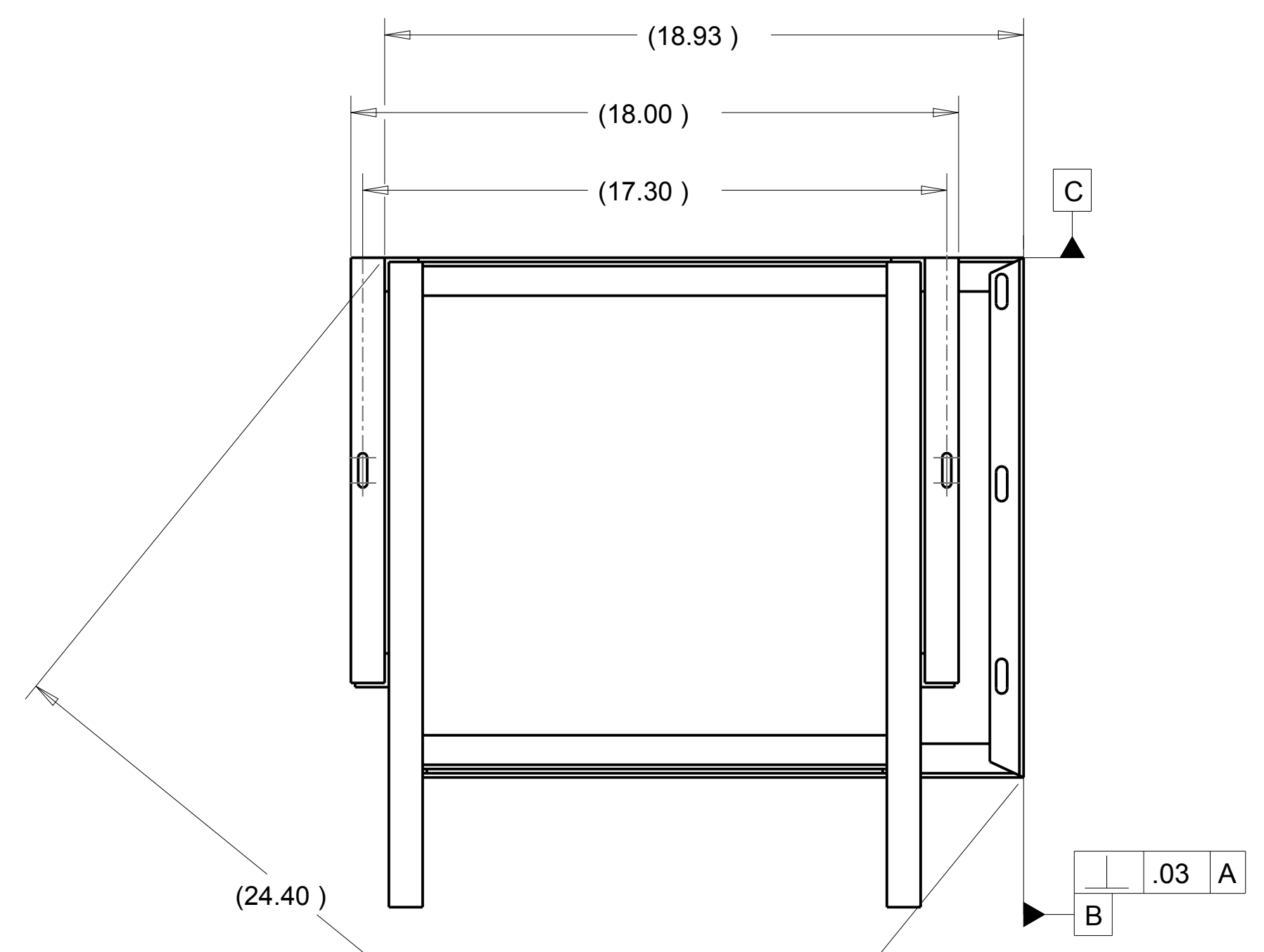
SEE DETAIL A



DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032313	REV
D	81996			X
SCALE	0.350	WEIGHT	- LBS	SHEET 2 OF 18



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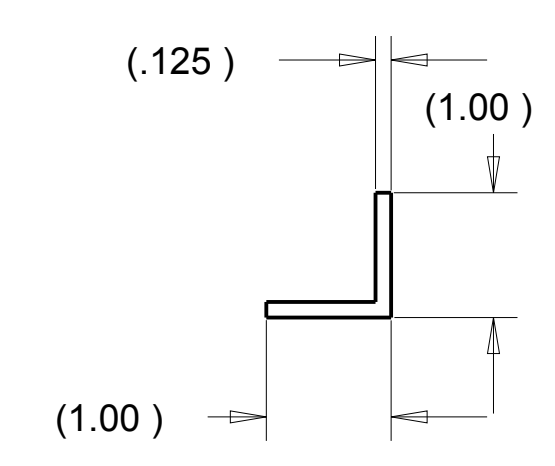
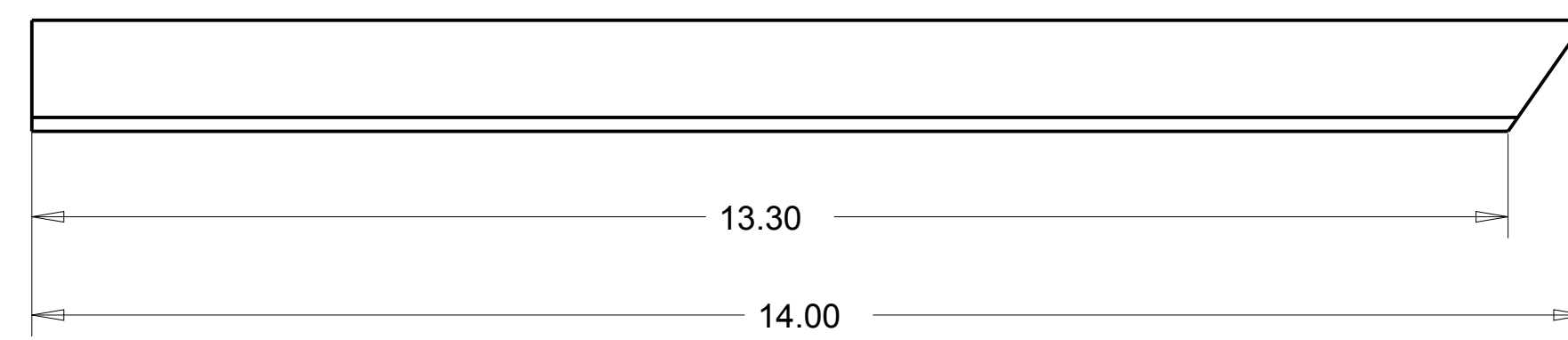
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-07

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.650	WEIGHT	- LBS	SHEET	10 OF 18		

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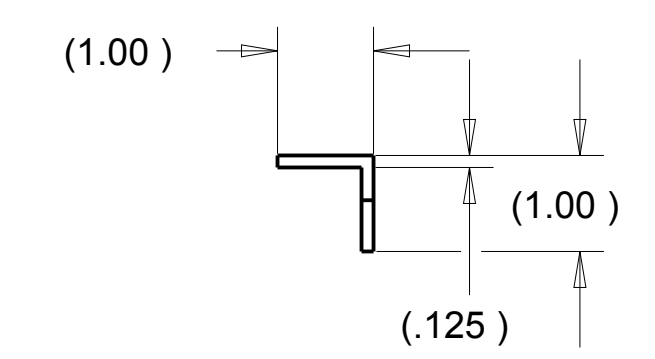
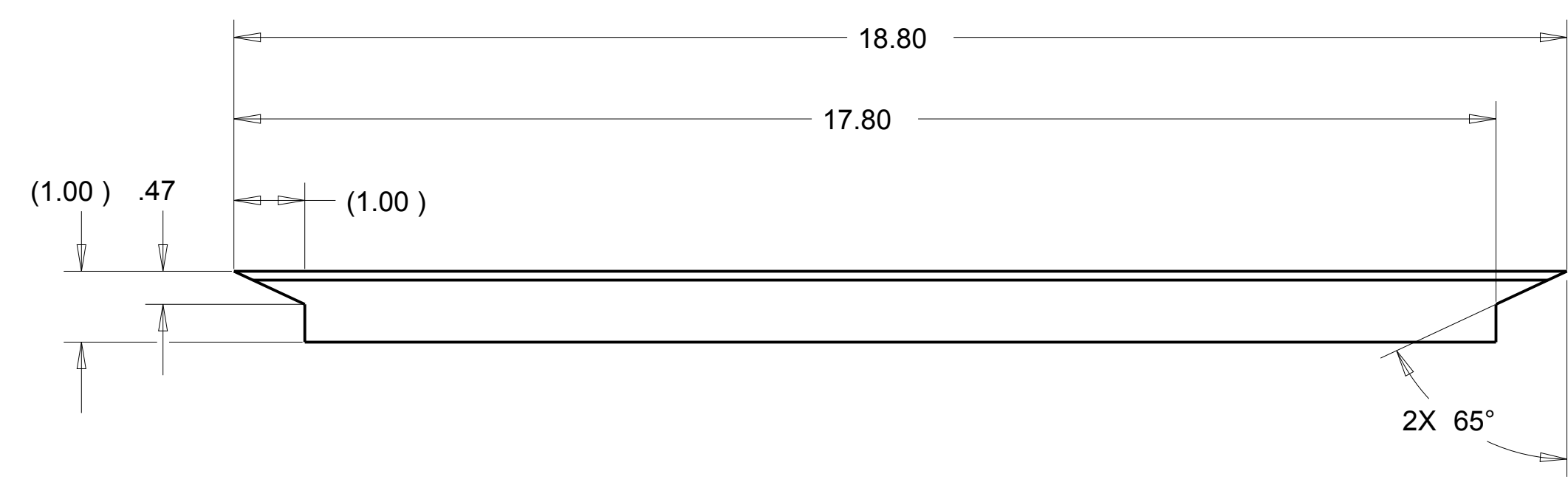
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-08

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1032313	X
SCALE	0.500	WEIGHT	- LBS	SHEET	11 OF 18

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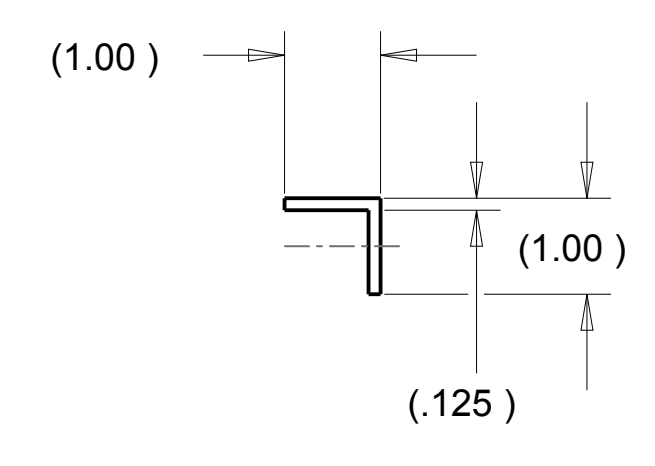
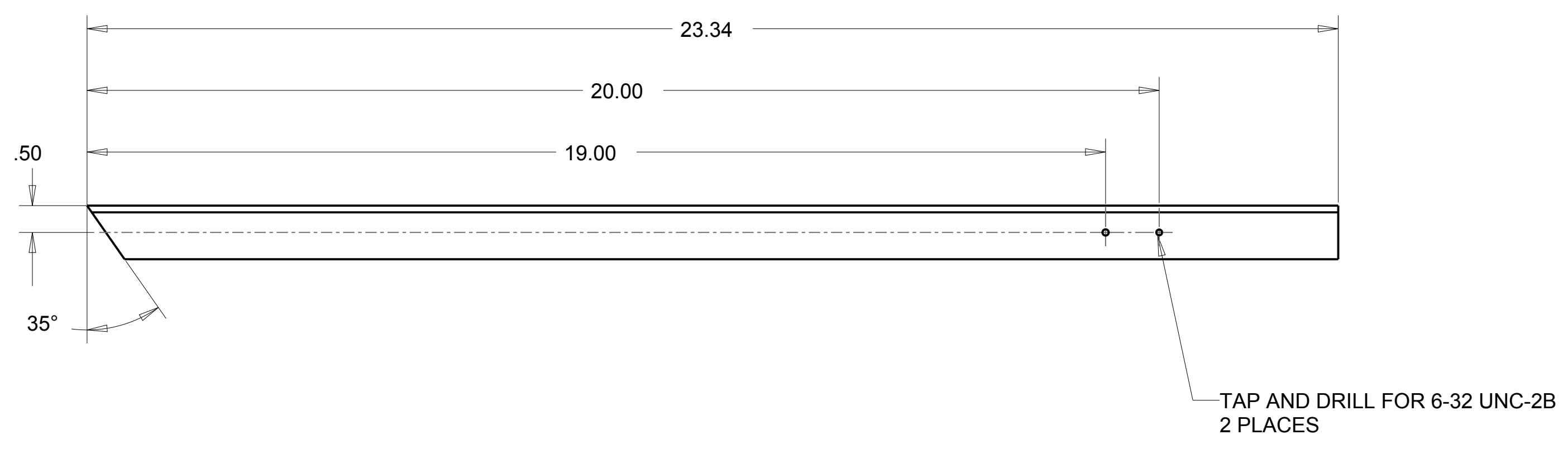
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-09

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	12 OF 18		

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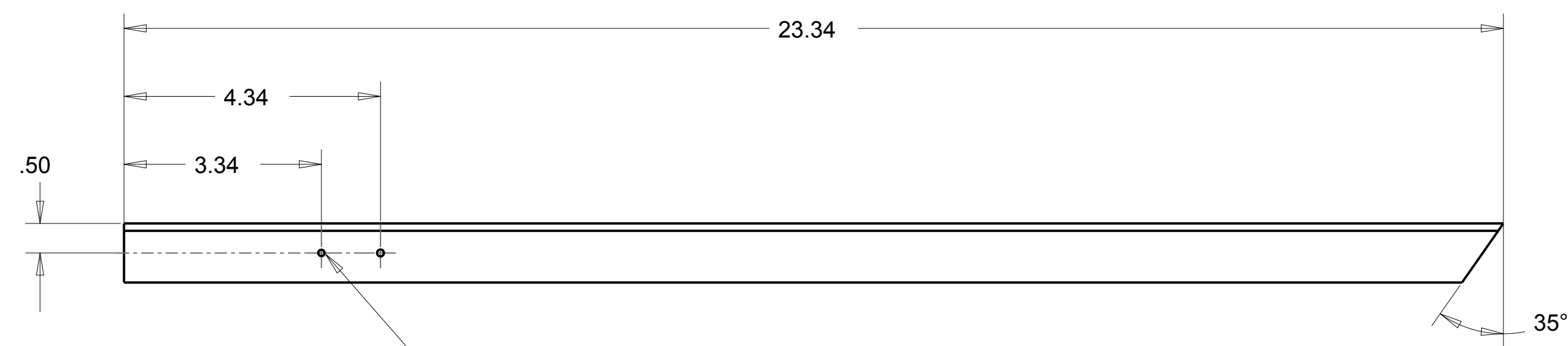
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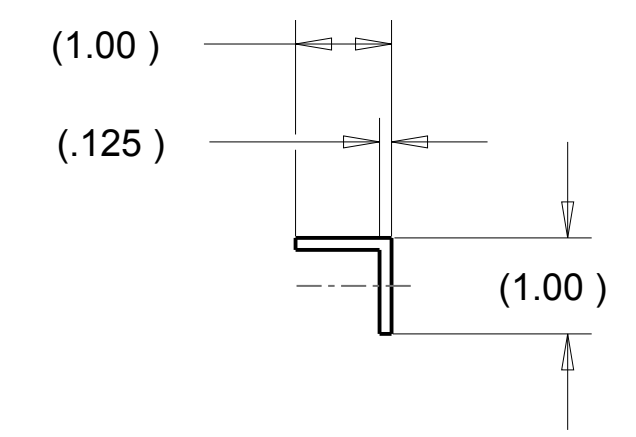
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TAP AND DRILL FOR 6-32 UNC-2B
2 PLACES

-10



DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	13 OF 18		

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RELEASE LEVEL

DWG NO

1032313

SH

14

REV

X

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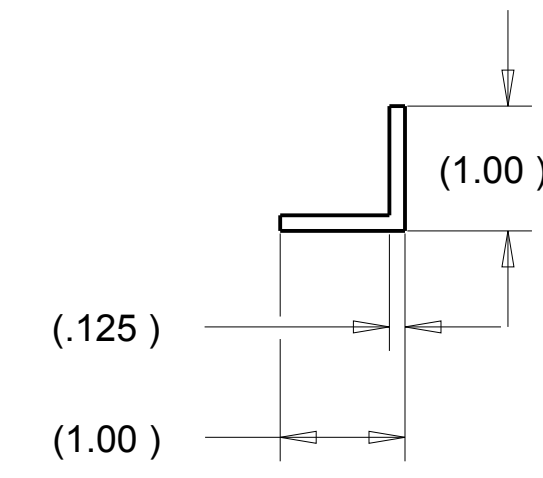
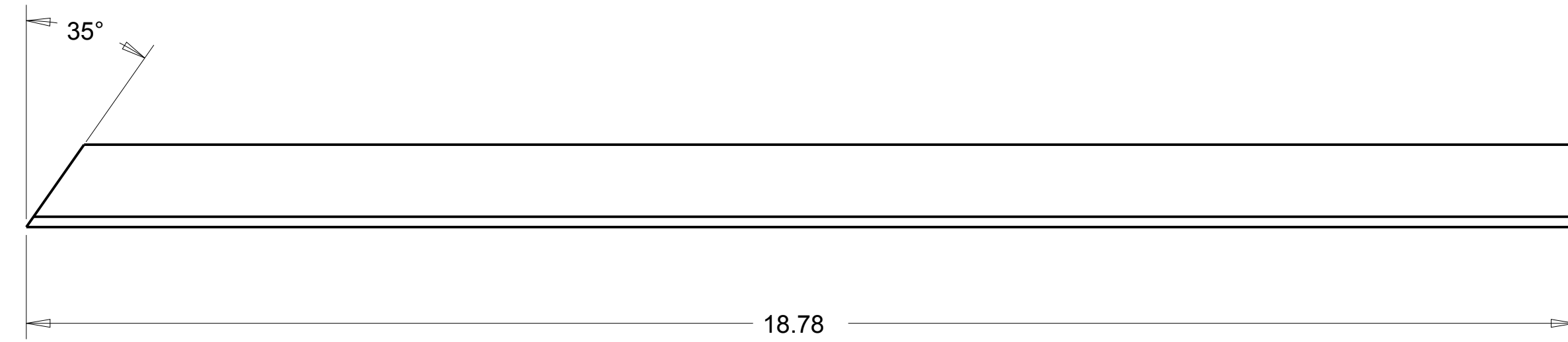
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-11

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

D

CAGE CODE

81996

DWG NO

1032313

REV

X

SCALE

0.650

WEIGHT

- LBS

SHEET

14 OF 18

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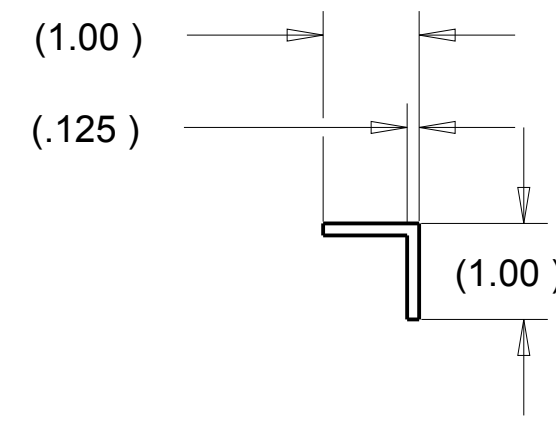
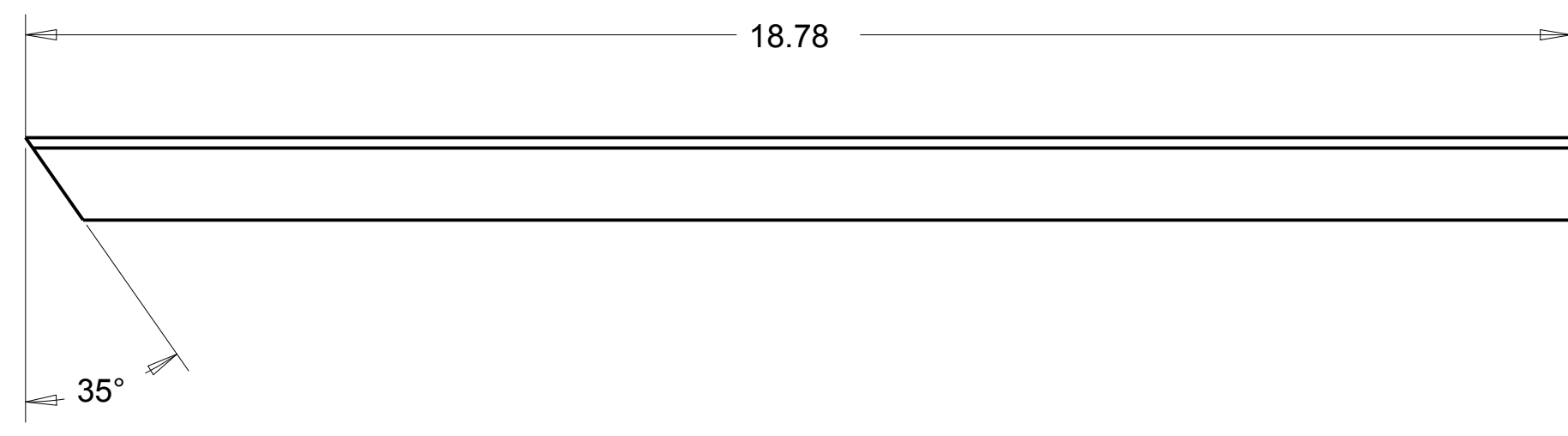
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-12

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	REV
D	81996	1032313	X
SCALE	0.500	WEIGHT	- LBS
		SHEET	15 OF 18

8

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RELEASE LEVEL

DWG NO

1032313

SH

16

REV

X

D

D

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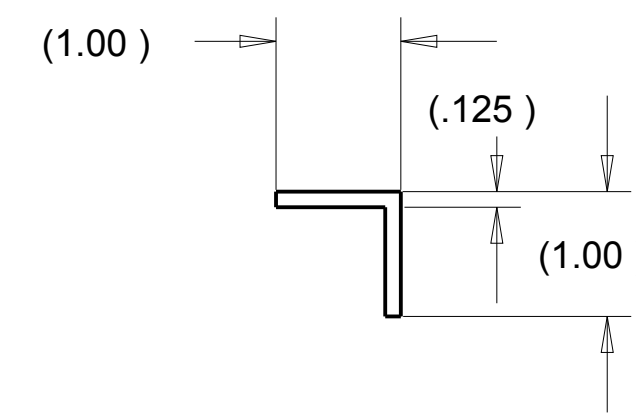
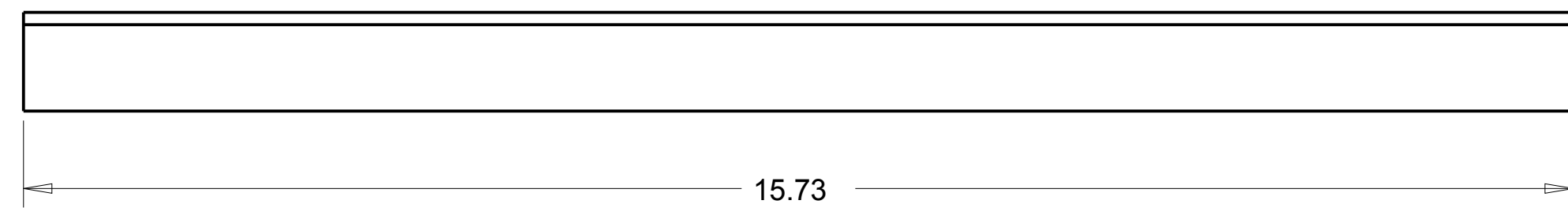
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-13

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

D

CAGE CODE

81996

DWG NO

1032313

REV

X

SCALE

0.650

WEIGHT

- LBS

SHEET

16 OF 18

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RELEASE LEVEL

DWG NO

1032313

SH

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REV

X

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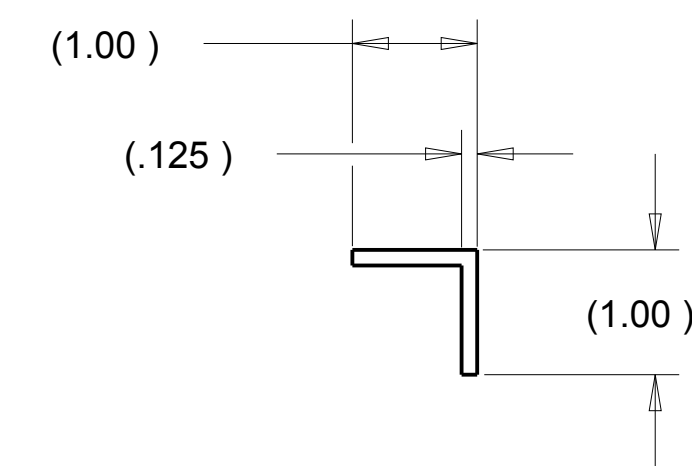
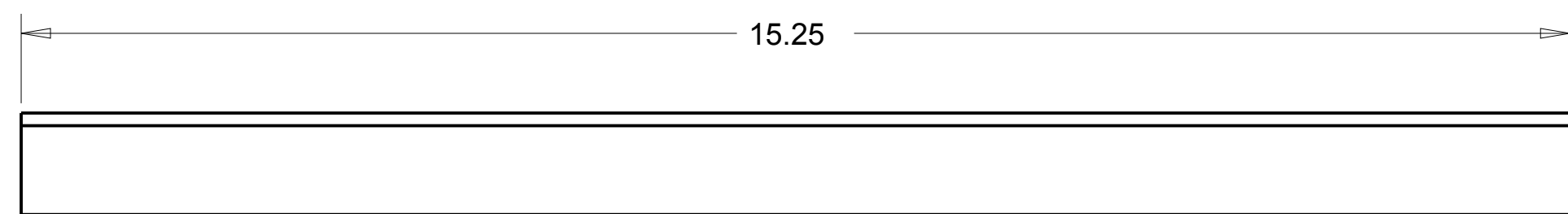
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-14

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

D

CAGE CODE

81996

DWG NO

1032313

REV

X

SCALE

0.650

WEIGHT

- LBS

SHEET

17 OF 18

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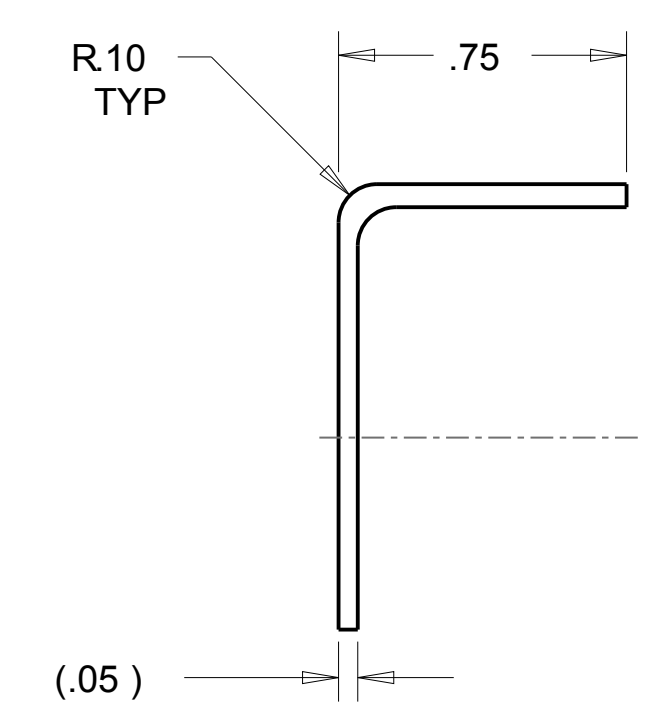
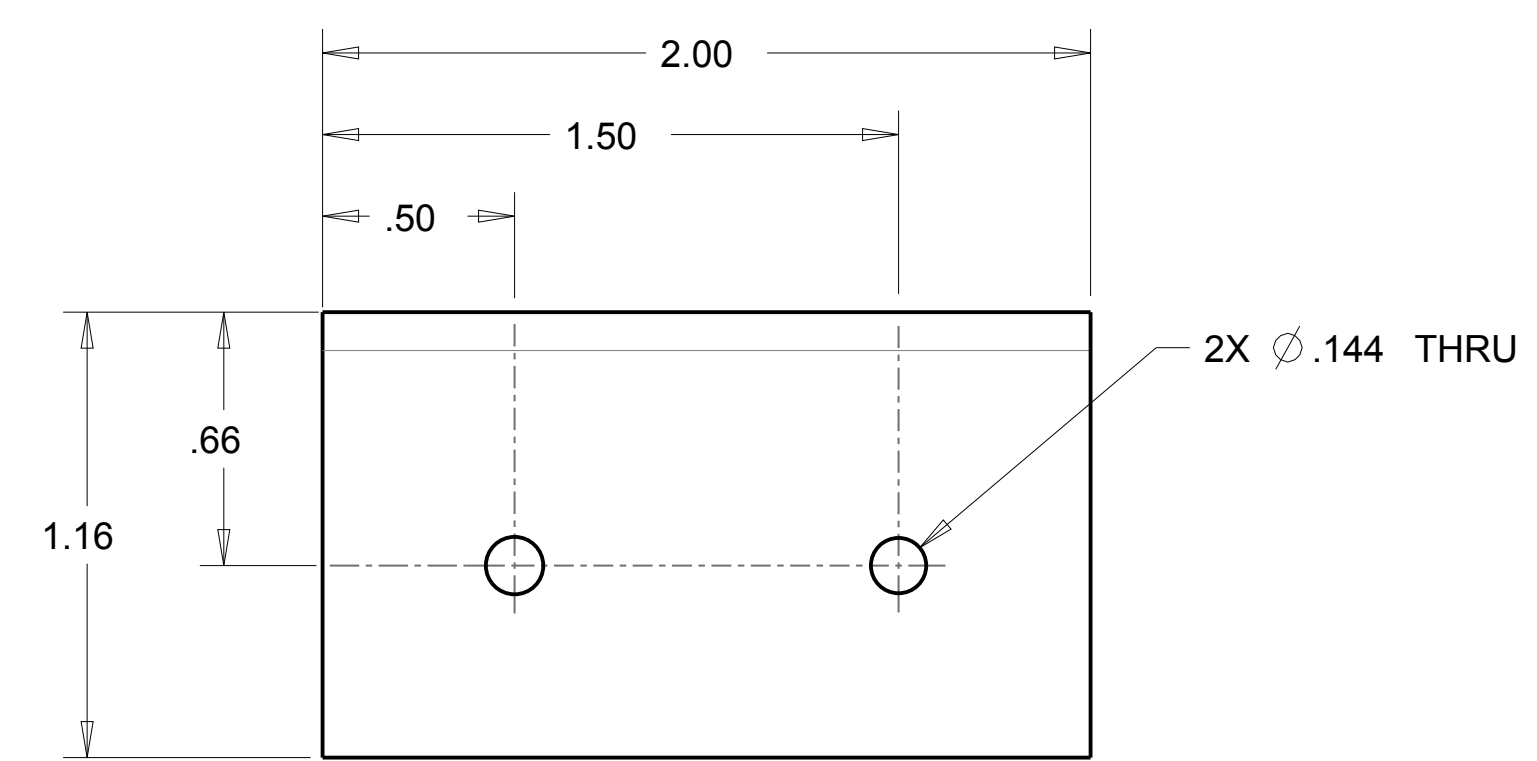
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-15

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	2.000	WEIGHT	- LBS	SHEET	18 OF 18		

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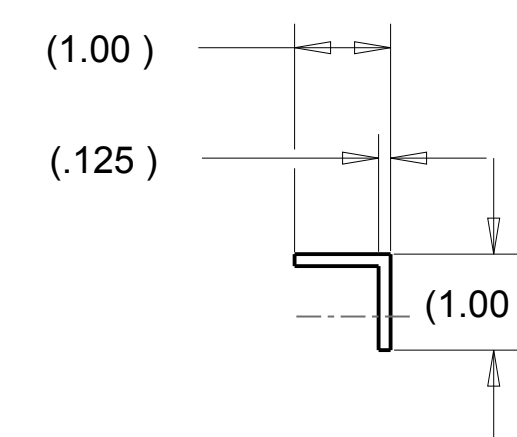
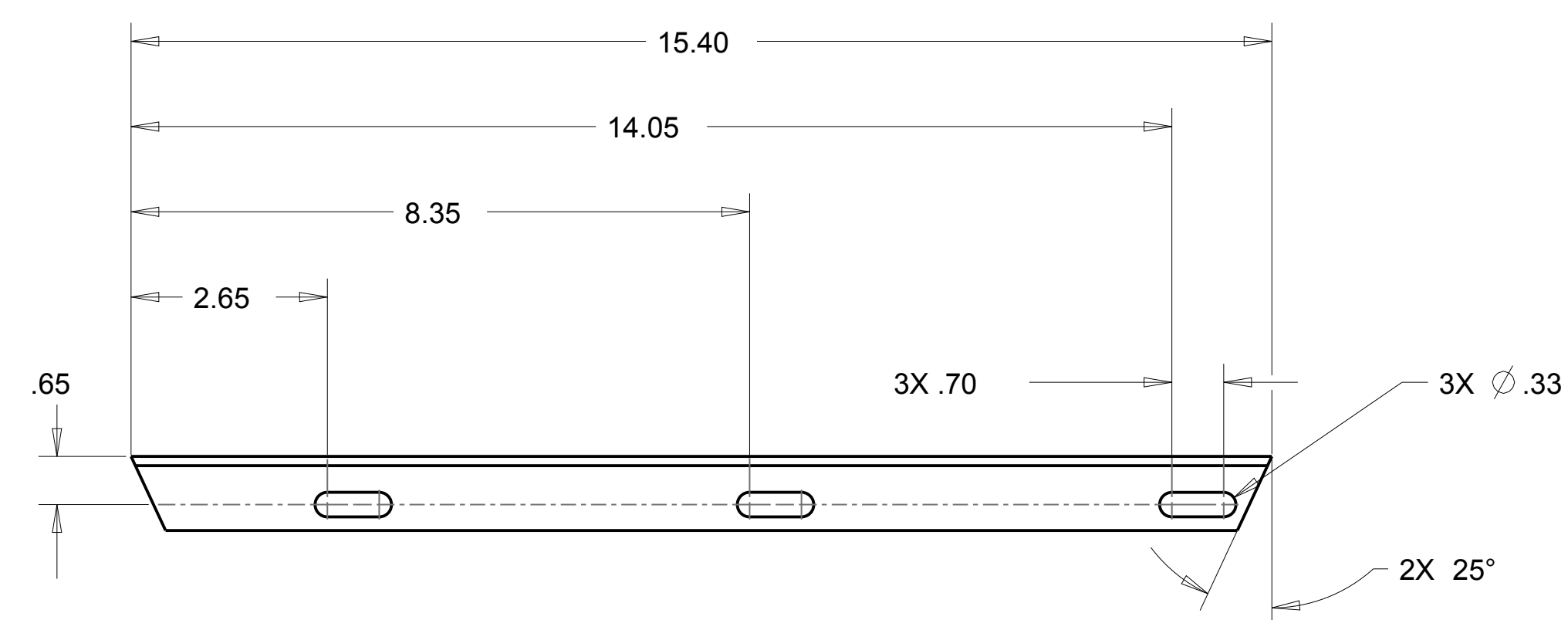
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-01

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032313	REV	X
D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	4 OF 18

D

D

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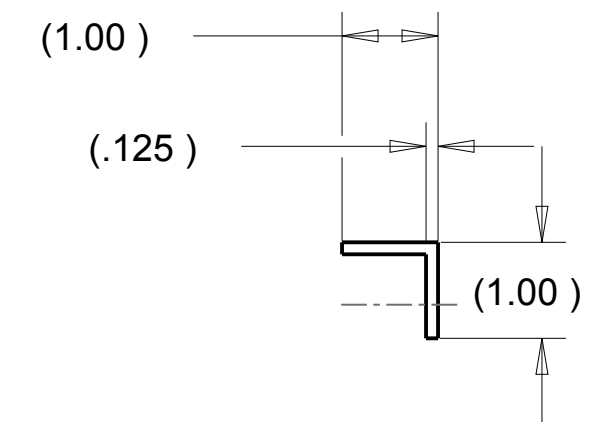
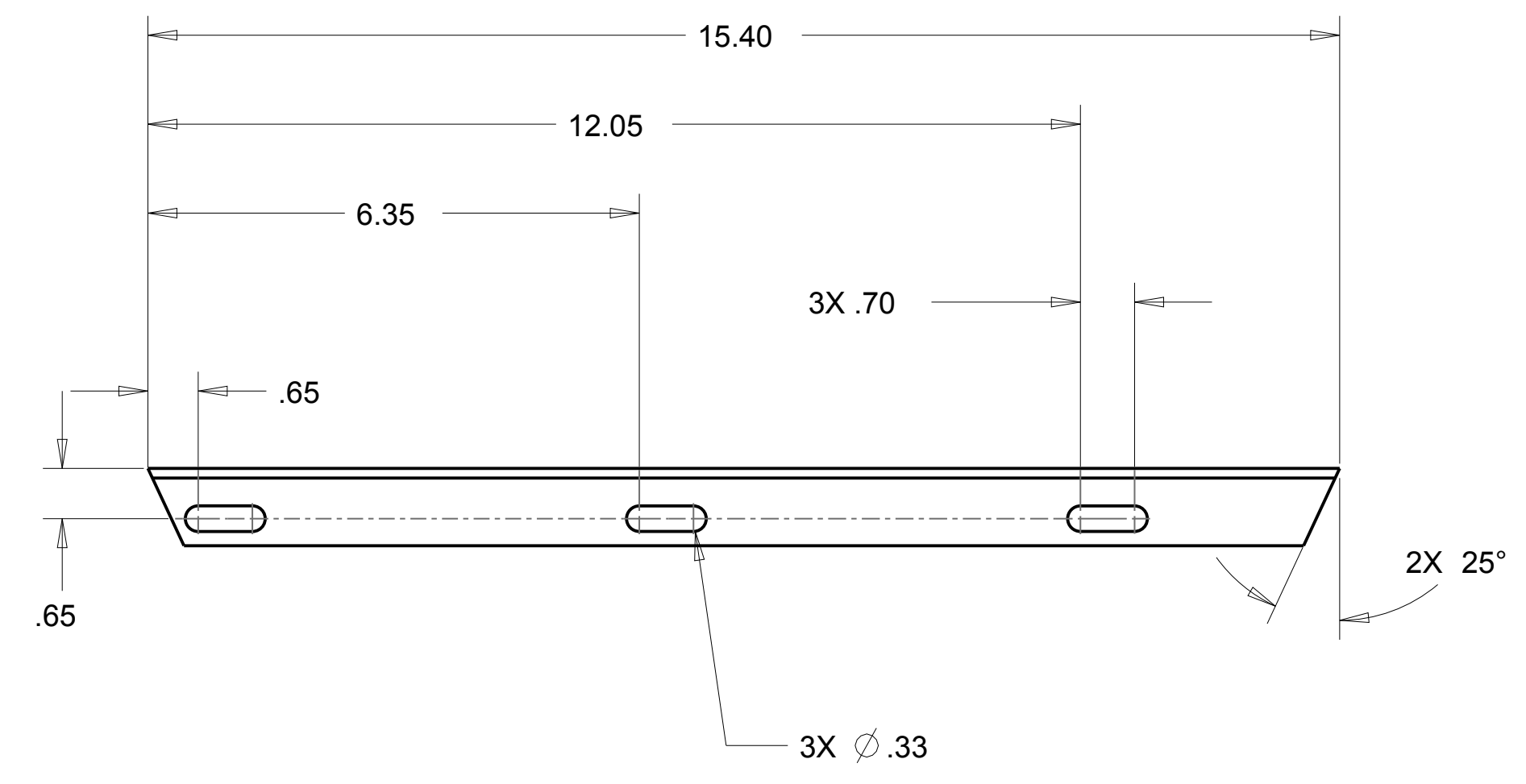
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-02

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	5 OF 18		

D

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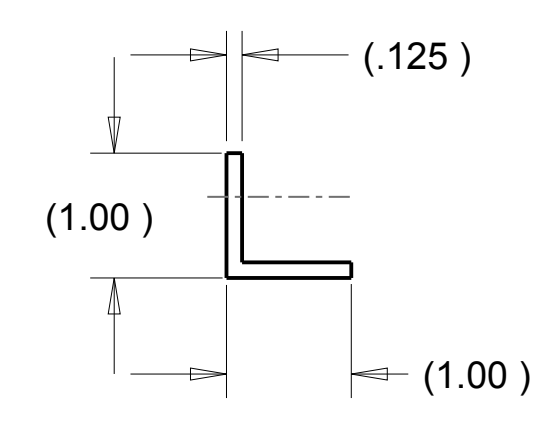
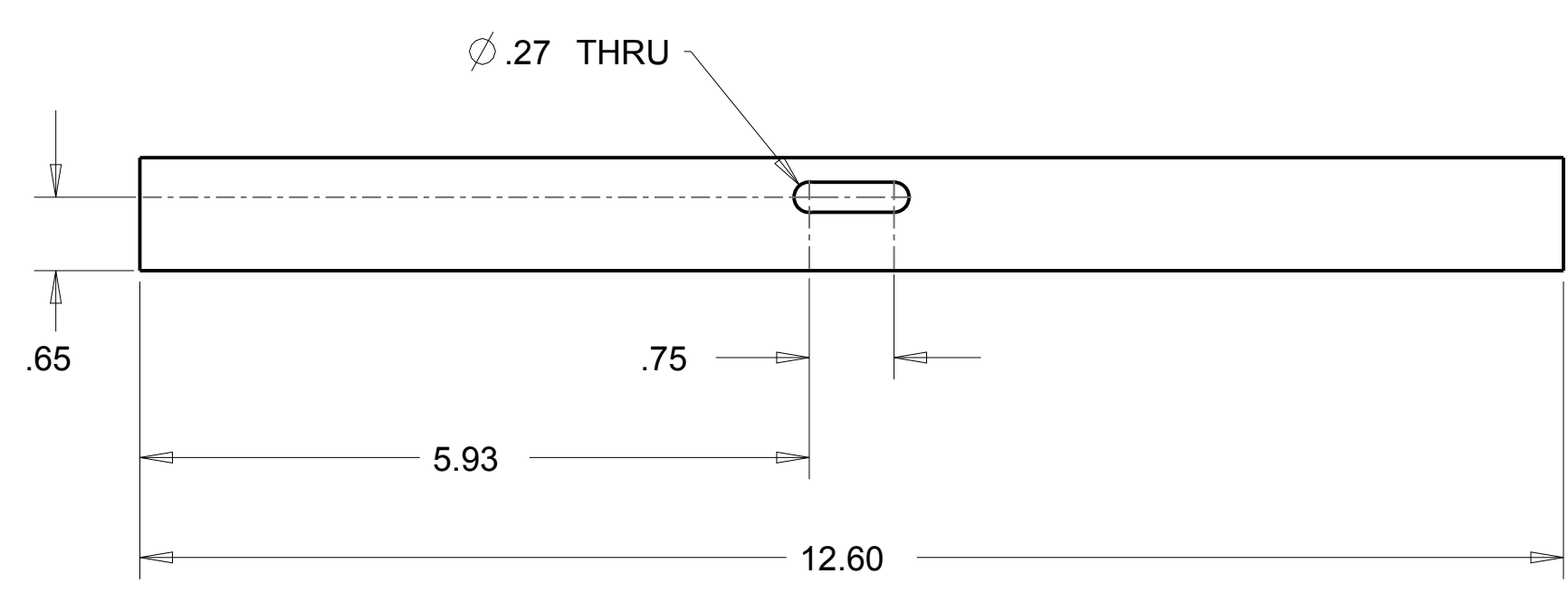
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-03

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV
FOR OFFICIAL USE ONLY		D	81996			X
SCALE	0.650	WEIGHT	- LBS	SHEET	6 OF 18	

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RELEASE LEVEL

DWG NO

1032313

SH

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REV

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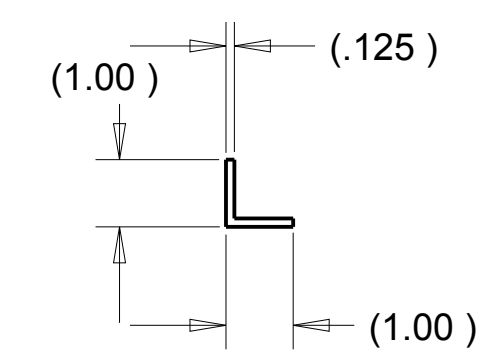
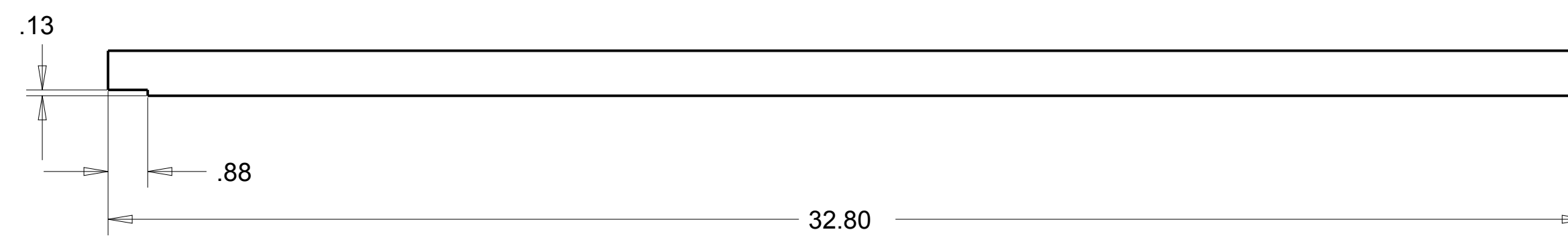
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-04

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032313	REV	X
D	81996				
SCALE	0.350	WEIGHT	- LBS	SHEET	7 OF 18

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RELEASE LEVEL

DWG NO

1032313

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REV

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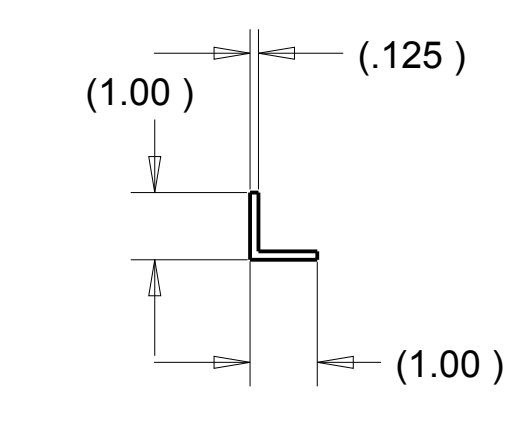
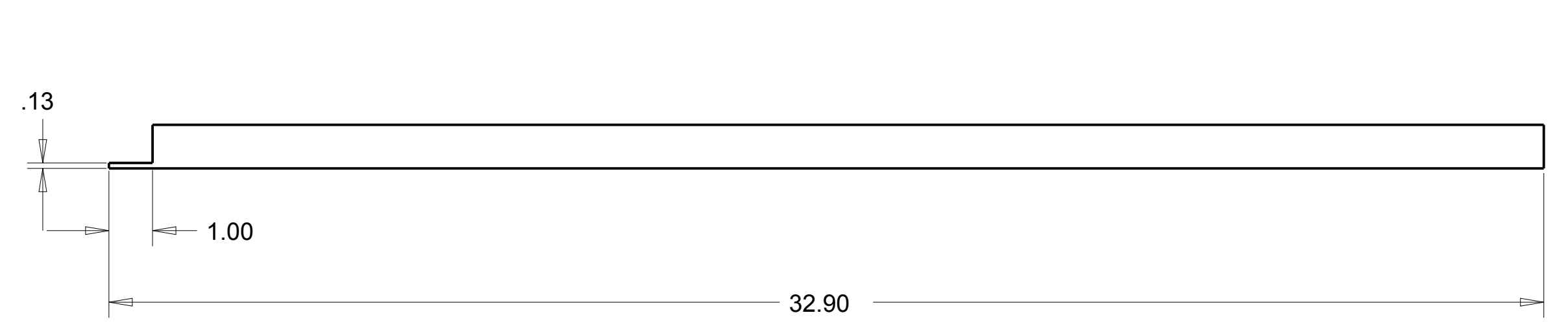
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-.05

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.350	WEIGHT	- LBS	SHEET	8 OF 18		

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RELEASE LEVEL

DWG NO

1032313

SH

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REV

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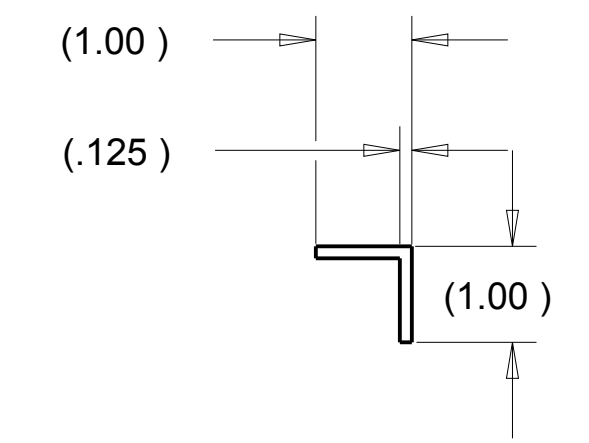
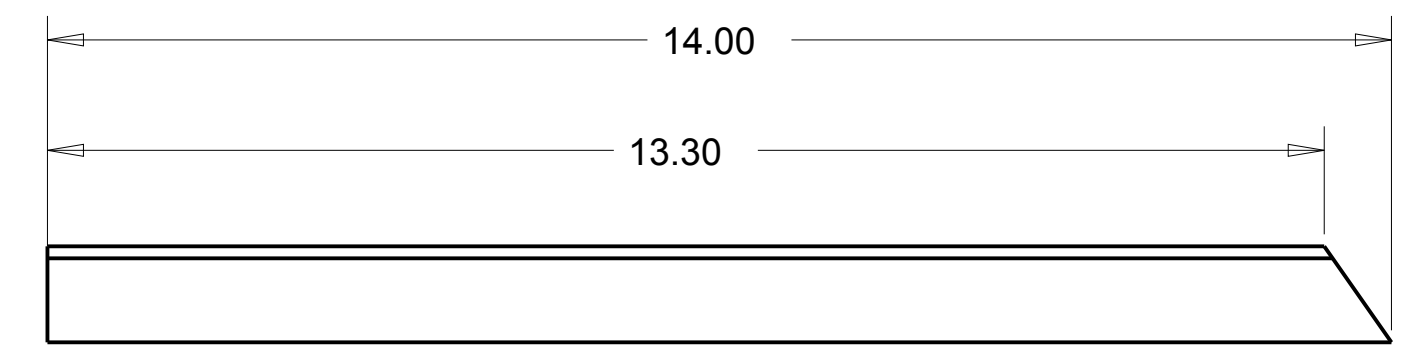
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-06

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032313	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	9 OF 18		

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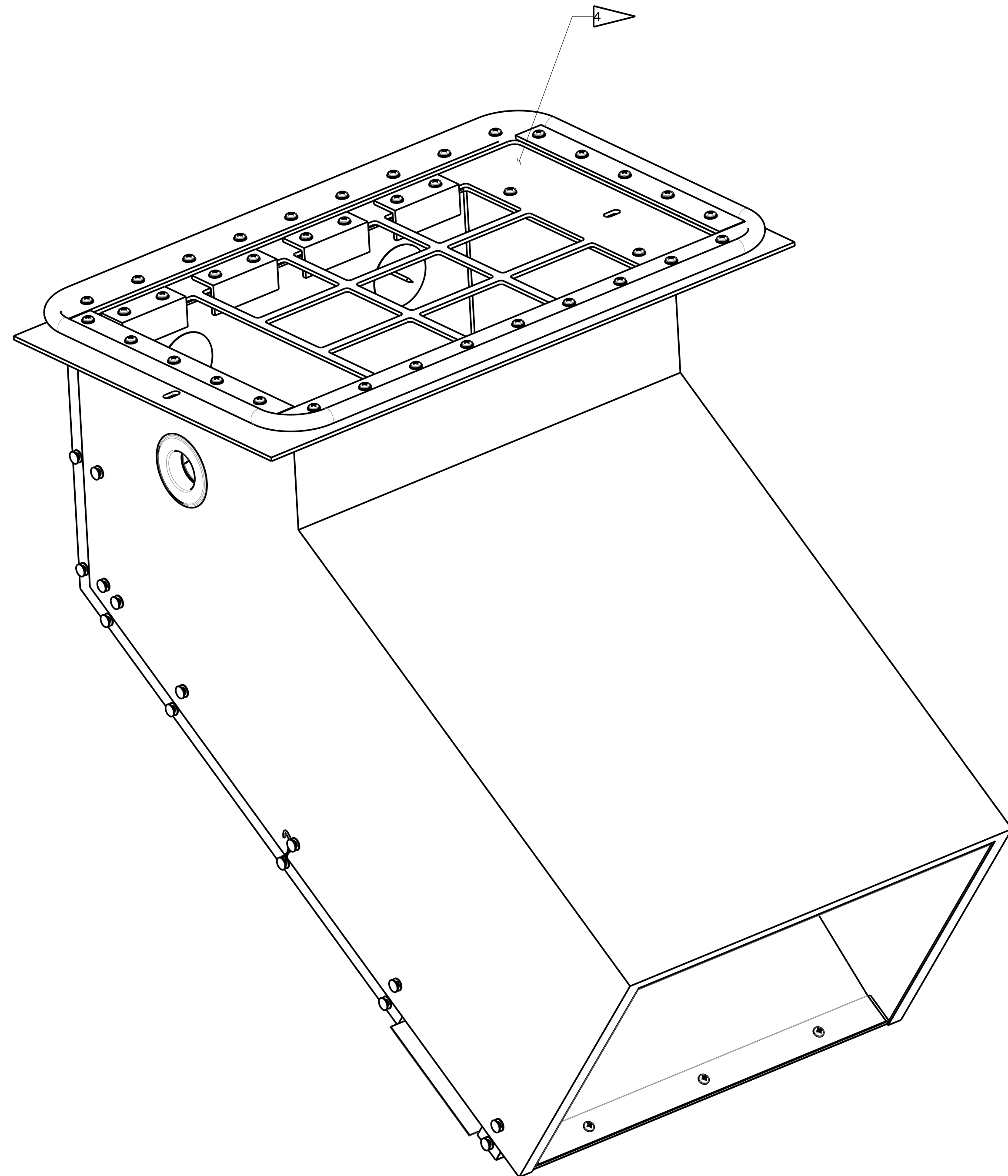
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NOTES:
 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. SPOT WELD ITEM #8, WELDING WASHER TO PIN WELD PIN IN 8 PLACES.
 4. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.
 5. ITEM 1032329-8 IS TO BE INSTALLED AT THIS LEVEL.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY		DATE	APPROVED
ZONE	REV	DESCRIPTION	
ALL	-	INITIAL RELEASE	MM-DD-YYYY



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
18	81996	8860K15	AR	SAFETY WIRE, 0.041" DIAMETER	-
17	81996	1032346	1	INSULATION ASSEMBLY 2, EJECTOR	MIL-I-23128B
16	81996	1032345	1	INSULATION ASSEMBLY 1, EJECTOR	MIL-I-23128B
15	81996	1032329-8	1	REINFORCE, EJECTOR, BOTTOM	-
14	07BY4	91400A190	8	SCREW, MACHINE, PAN HEAD, 8-32, 0.250 INCH LONG	-
13	81996	1032334	1	FLANGE, EJECTOR, TOP	ASTM - A511
12	07BY4	91400A197	4	SCREW, MACHINE, PAN HEAD, 8-32, 0.750 INCH LONG	-
11	07BY4	94140A103	7	NUT, LOCK, HEX, 8-32	-
10	07BY4	91400A192	29	SCREW, MACHINE, PAN HEAD, 8-32, 0.375 INCH LONG	-
9	07BY4	98017A624	38	WASHER, FLAT, 8	-
8	07BY4	93610A410	8	WASHER, WELDING	-
7	81996	1032343	4	BRACKET, INSULATION FLANGE	ASTM - A276
6	81996	1032342	2	BRACKET SEAL 2	ASTM - A276
5	81996	1032341	2	BRACKET, SEAL 1	ASTM - A276
4	81996	1032340	1	SEAL, TOP FLANGE MOUNT	ASTM - A276
3	81996	1032339	1	PLATE, EJECTOR, BOTTOM	ASTM - A511
2	81996	1032338	1	INSULATION, EJECTOR, INSIDE	MIL-I-23128B
1	81996	1032329	1	EJECTOR ASSEMBLY	-

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE EJECTOR ASSEMBLY, AGPU	
1032312 AGPU		STRESS XXX		CHECKER JIM SEAQUIST	
NEXT ASSY USED ON		MANAGER SUE O'BRIEN		SCALE 0.400 WEIGHT - LBS SHEET 1 OF 3	
APPLICATION		SIZE D		CAGE CODE 81996	
		DWG NO 1032328		REV X	

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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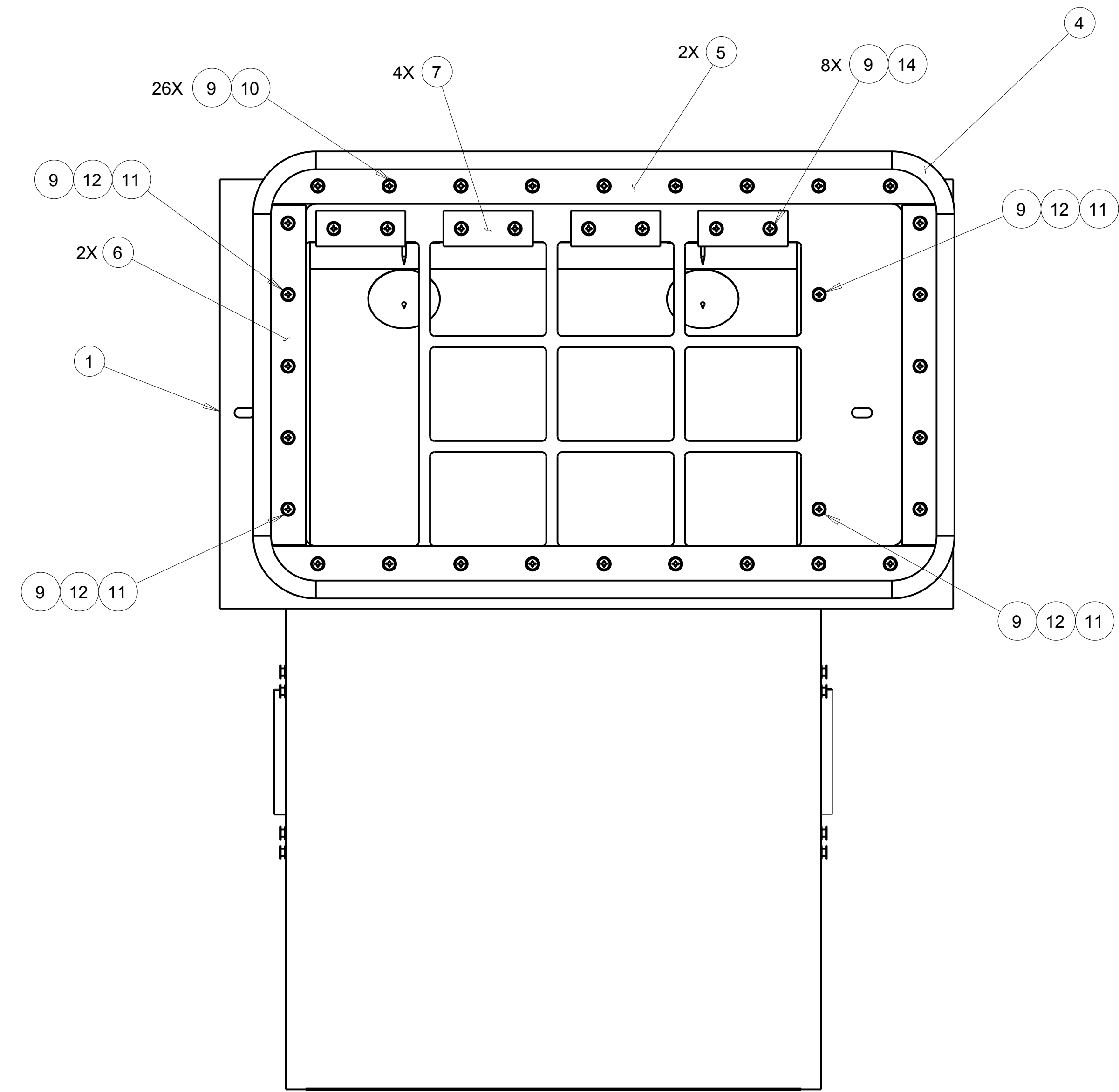
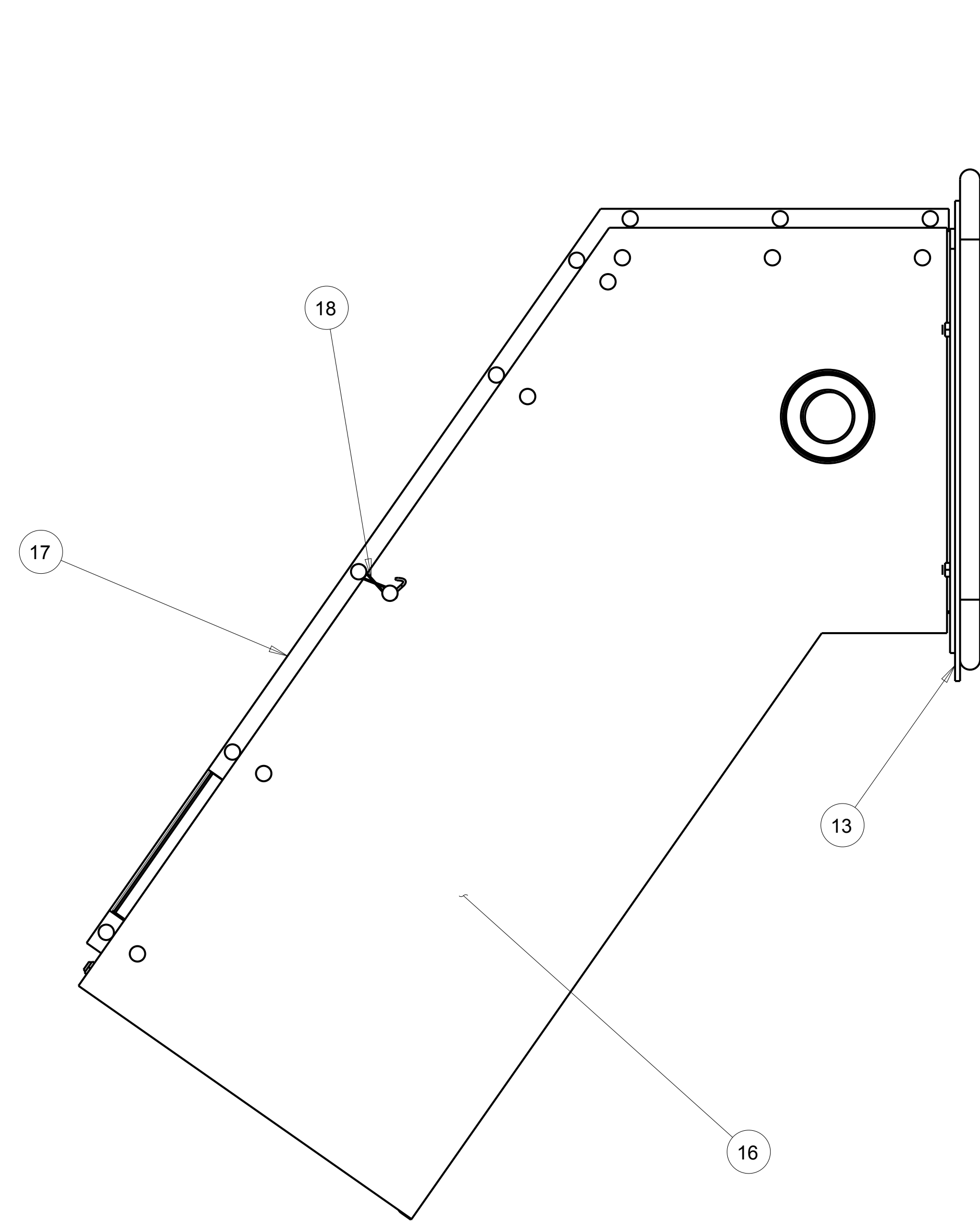
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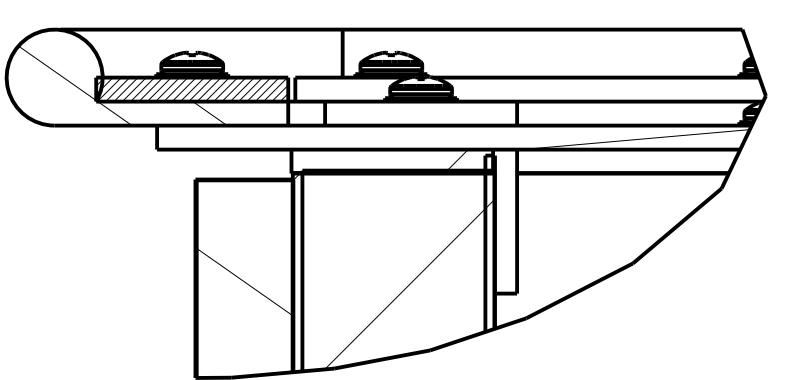
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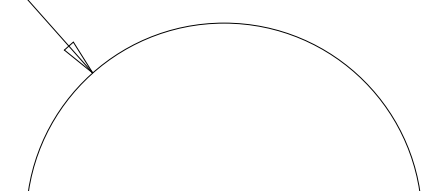
FRONT VIEW

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1032328	X
SCALE	0.400	WEIGHT	- LBS	SHEET	2 OF 3

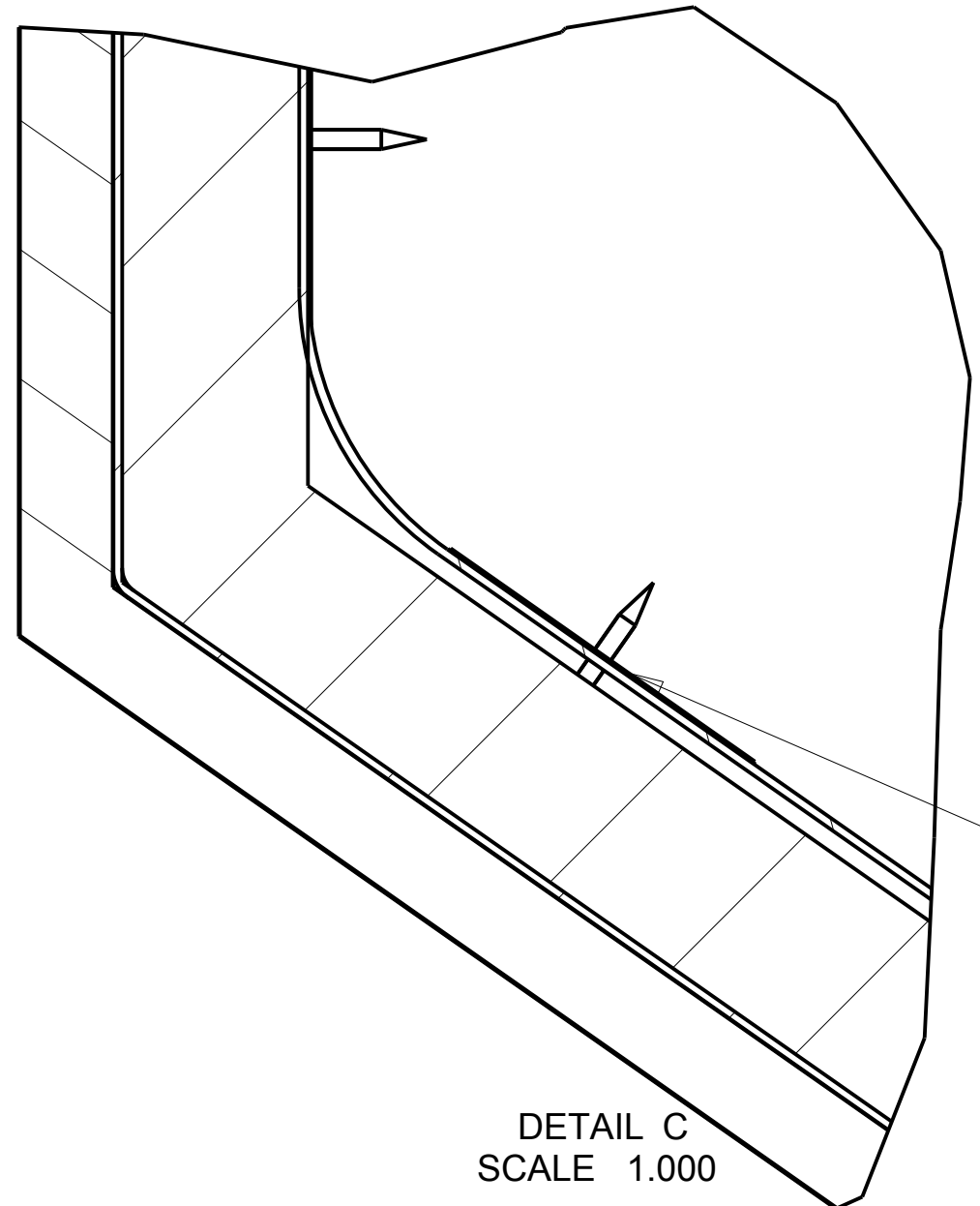
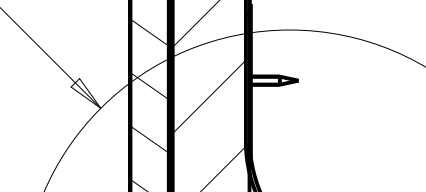


DETAIL B
SCALE 1.000

SEE DETAIL B



SEE DETAIL C



DETAIL C
SCALE 1.000

8 REFERENCE ONLY

SECTION A-A

3 2

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8X 8

15

BOTTOM VIEW

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032328	REV	X
D	81996				
SCALE	0.400	WEIGHT	- LBS	SHEET	3 OF 3

8

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NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. REMOVE ALL BURRS AND BREAK SHARP EDGES.
3. SURFACE FINISH ~~OR~~ BETTER.
4. ALL WELDING NOTES AND SYMBOLS IN ACCORDANCE WITH AWS A2.4.
5. WELD GTAW PER AWS-D17.1. VISUALLY INSPECT ONLY. COMPLETE FUSION REQUIRED AT ROOT OF JOINT AND ALONG EACH LEG.
6. WELD GTAW: VISUAL EVIDENCE OF COMPLETE JOINT MELT THRU REQUIRED.
7. JOINT SHALL BE PURGED DURING WELDING.
8. EXCEPT AS INDICATED.
9. TYPICAL ALL SEAMS
10. MATERIAL: 321 STAINLESS STEEL PER ASTM-A511, 0.05" THICK STOCK SHEET.
11. PASSIVATE IN ACCORDANCE WITH ASTM A-380.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-

D

D

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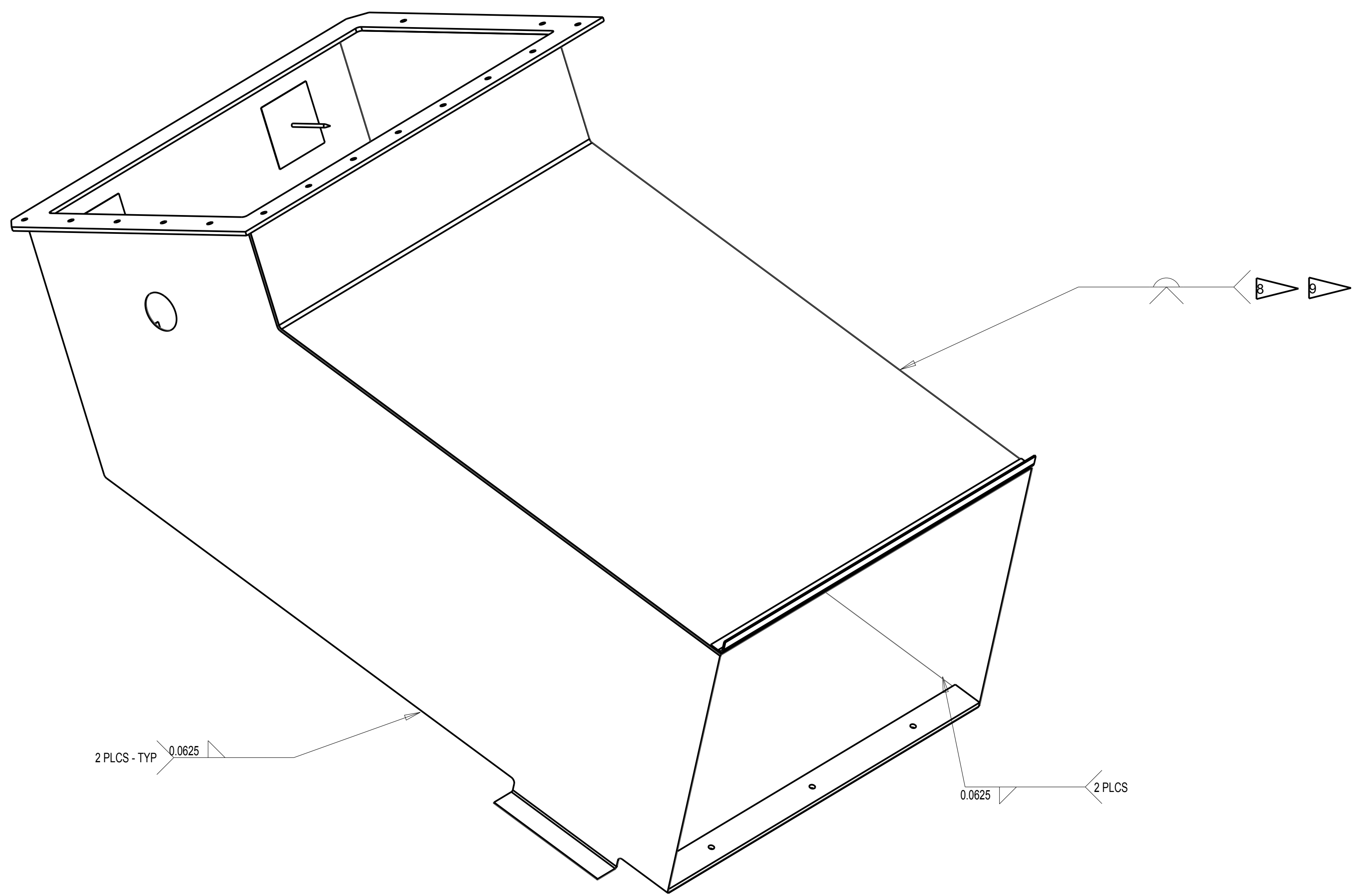
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9	07BY4	93610A210	8	PIN, WELD	-
8	81996	1032329-8	1	REINFORCE, EJECTOR, BOTTOM	ASTM - A511
7	81996	1032329-7	1	LIP, EJECTOR, TOP	ASTM - A511
6	81996	1032329-6	1	BACK LIP, EJECTOR	ASTM - A511
5	81996	1032329-5	1	TOP FLANGE, EJECTOR	ASTM - A511
4	81996	1032329-4	1	LEFT SIDE, EJECTOR	ASTM - A511
3	81996	1032329-3	1	FRONT PANEL, EJECTOR	ASTM - A511
2	81996	1032329-2	1	RIGHT SIDE, EJECTOR	ASTM - A511
1	81996	1032329-1	1	BACK PANEL, EJECTOR	ASTM - A511
INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION

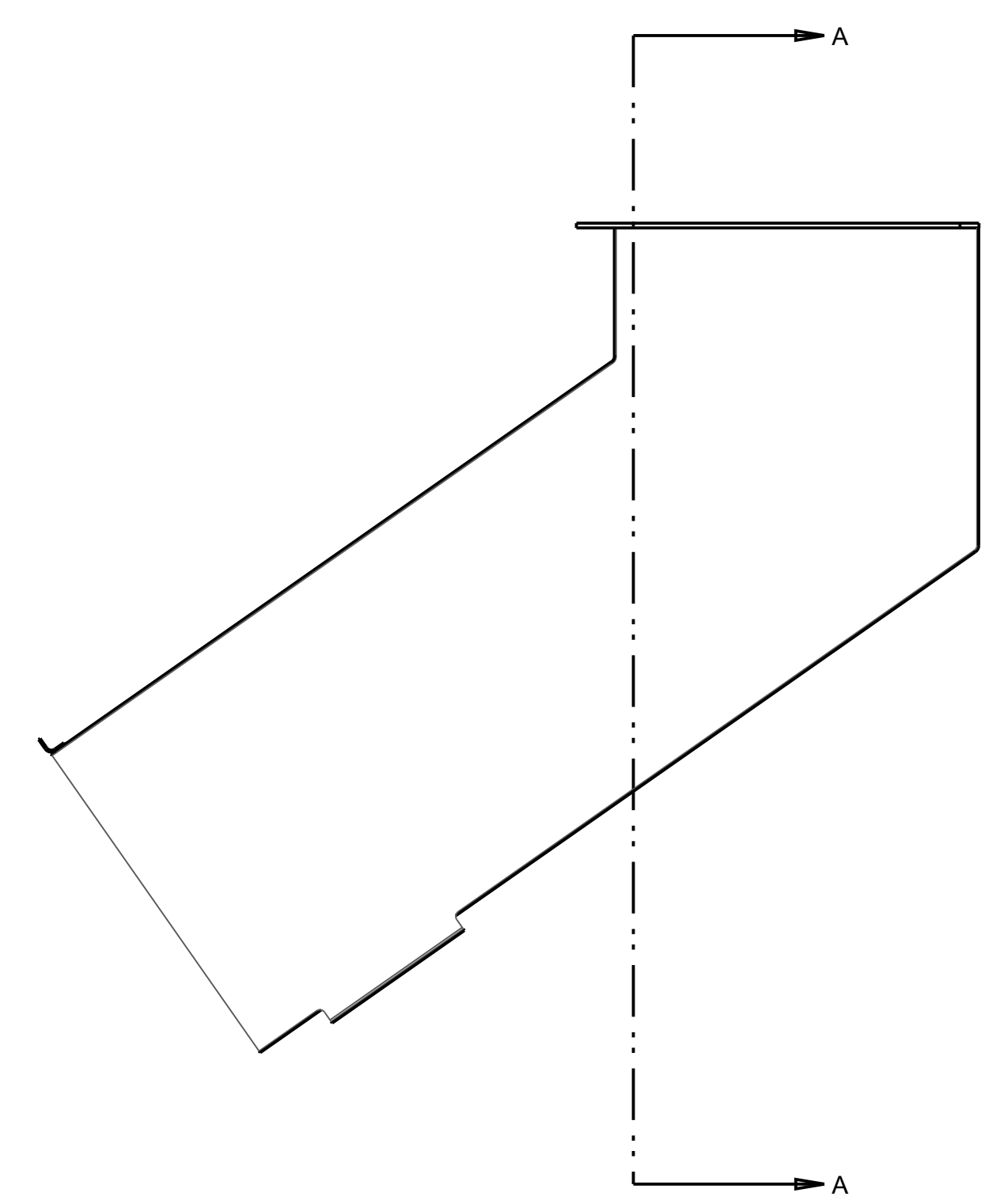
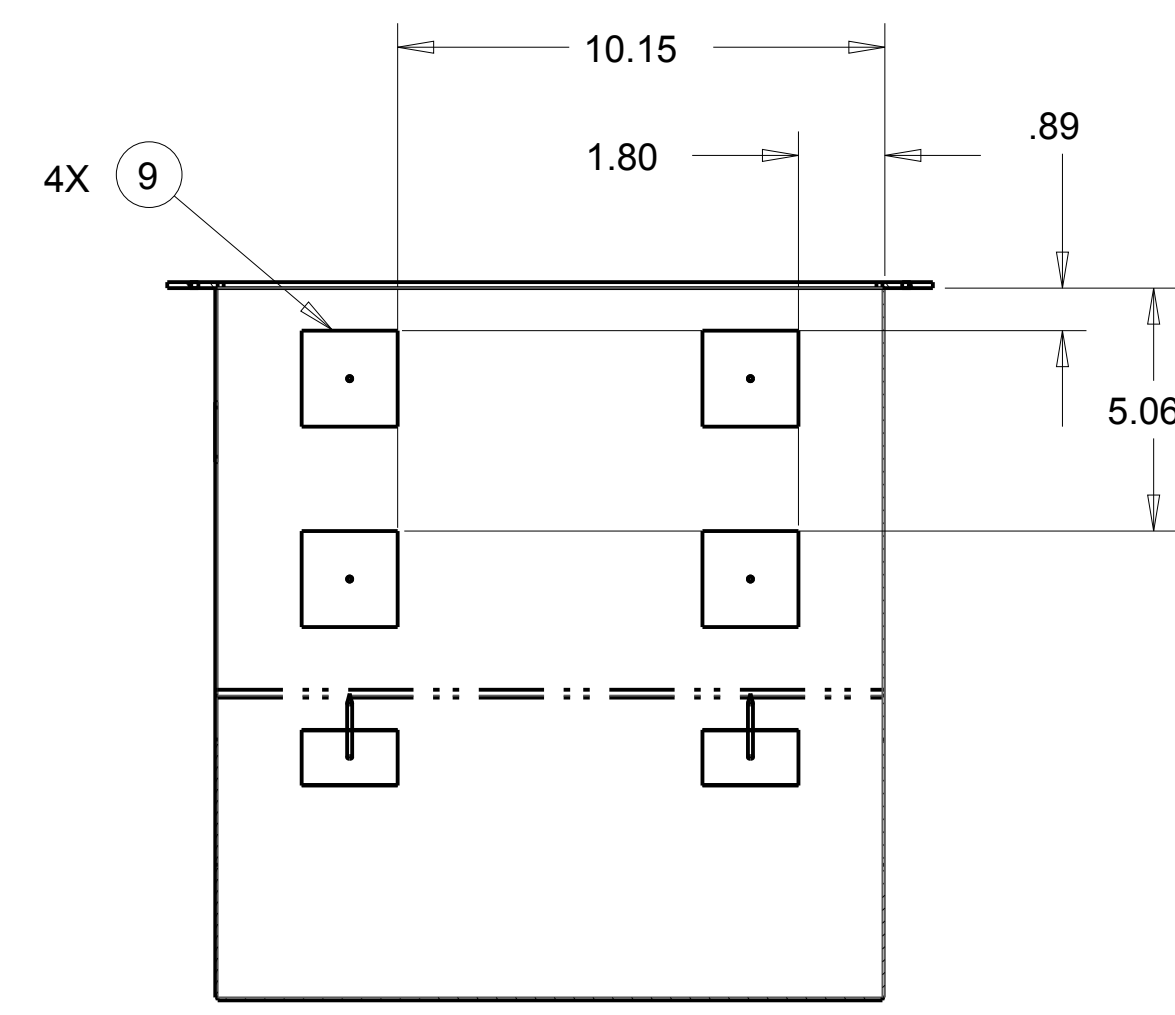
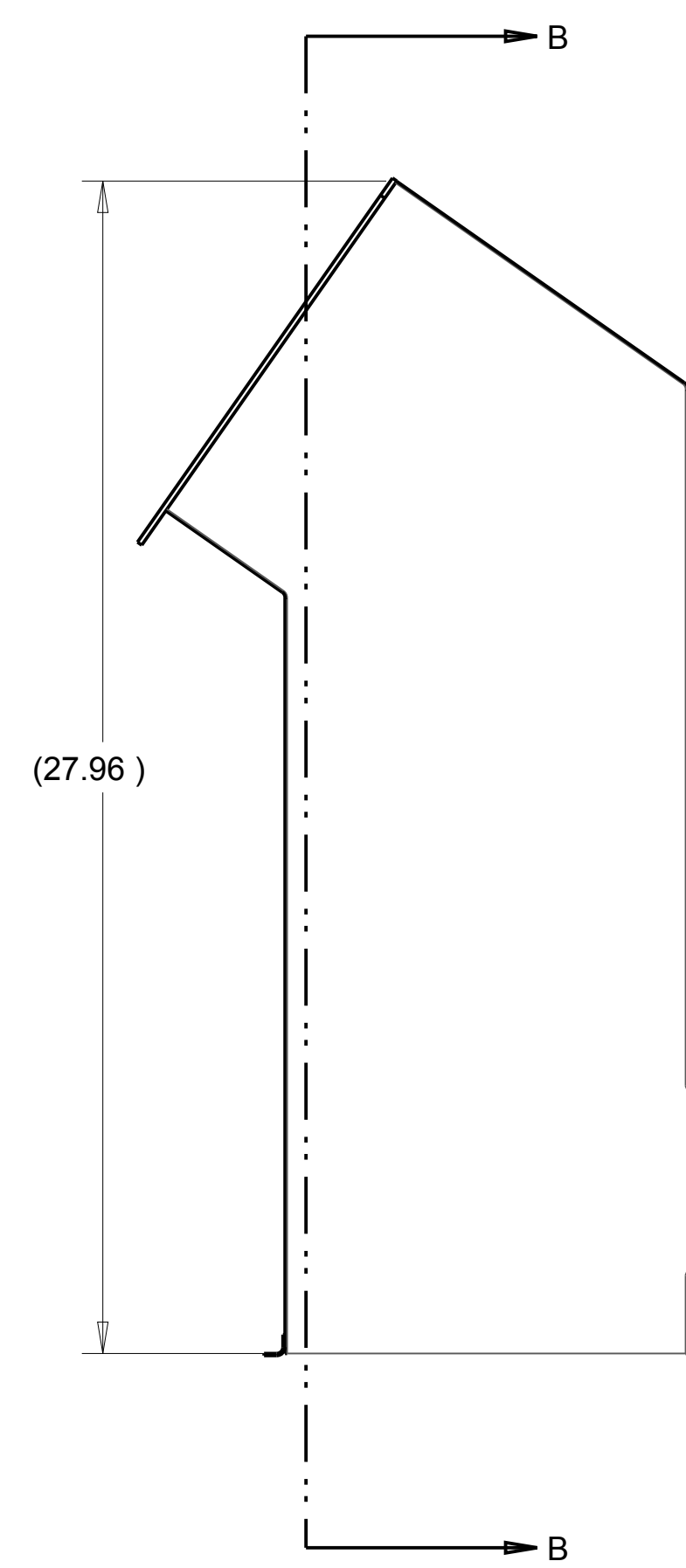
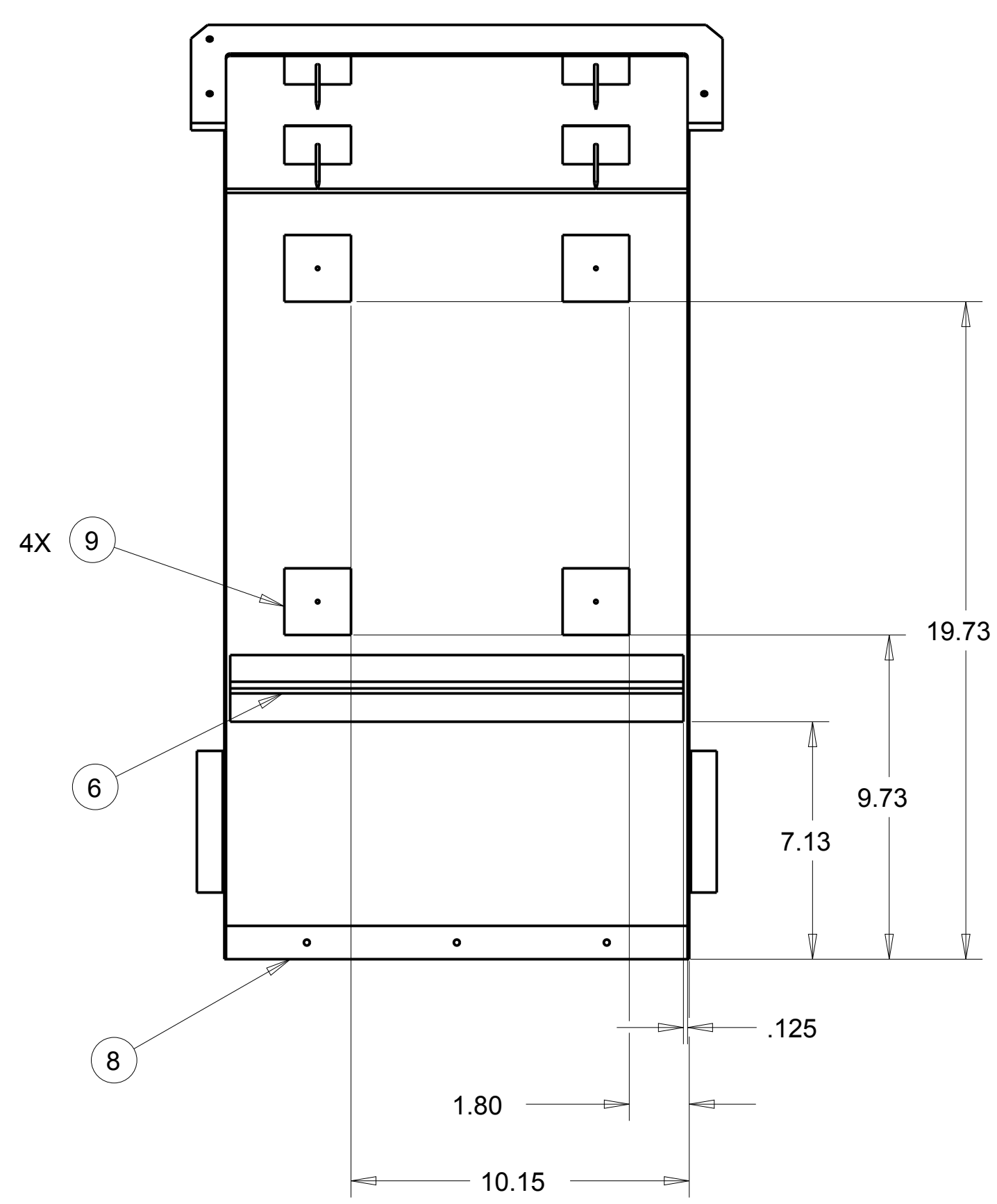
DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

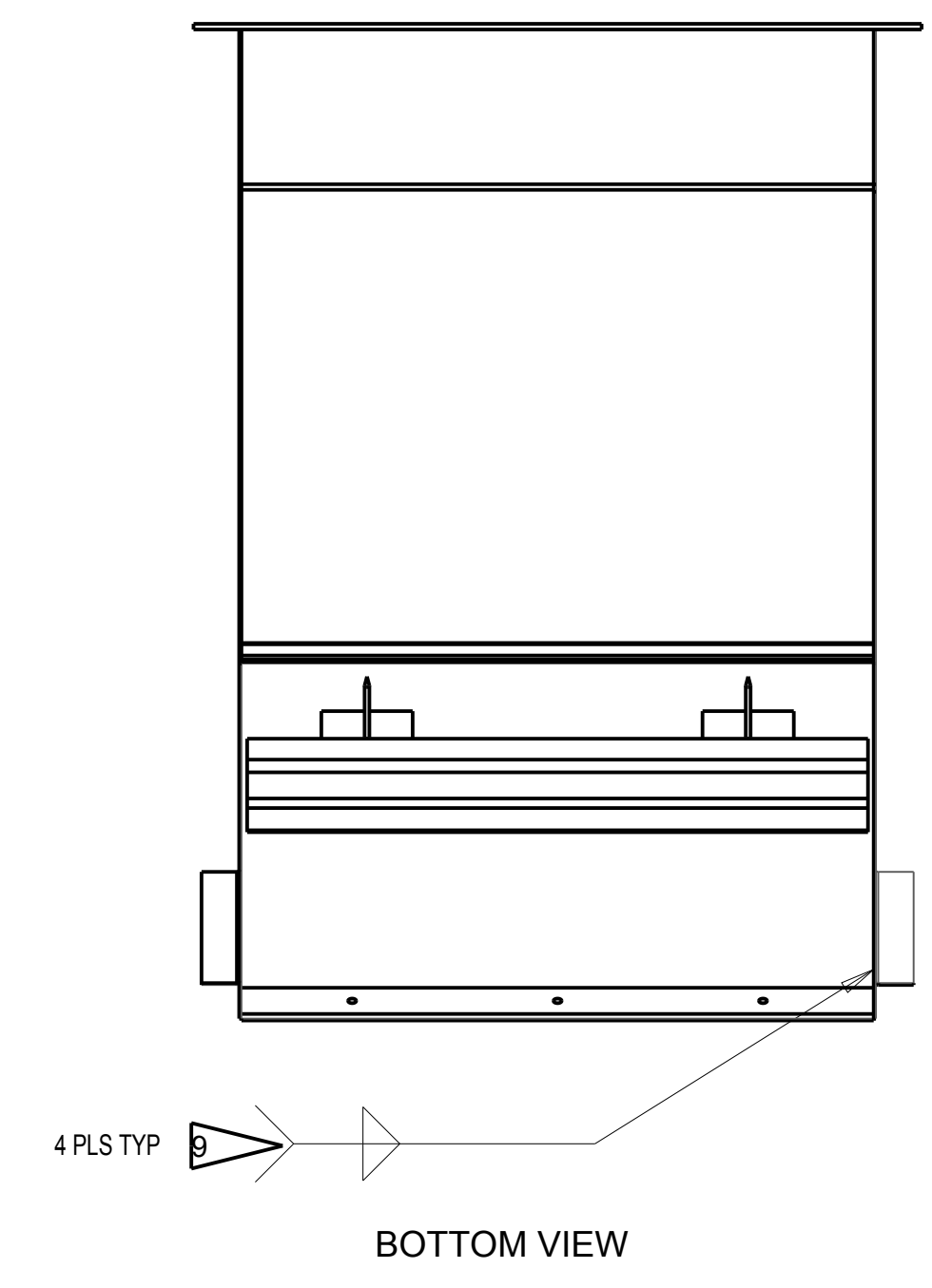
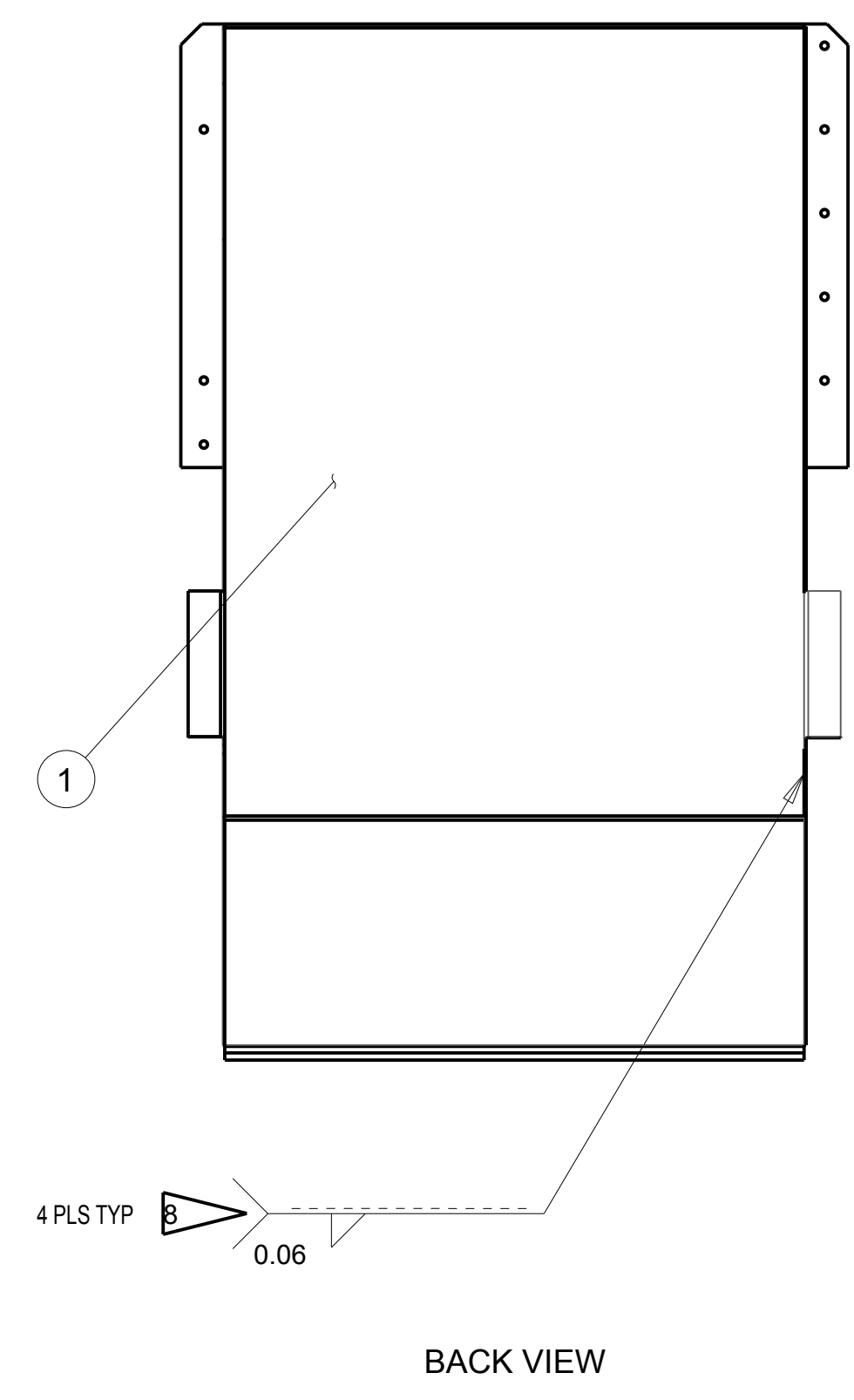
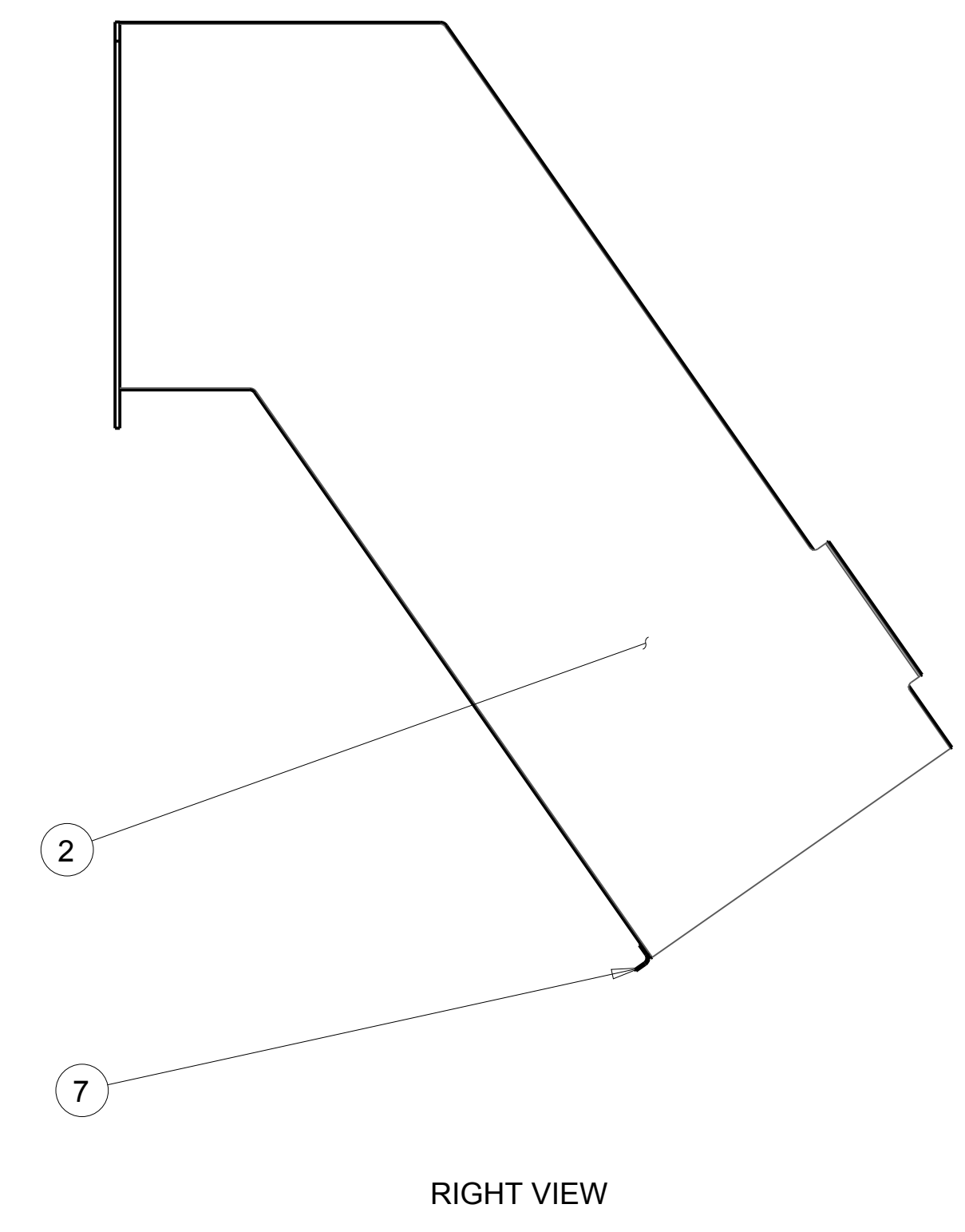
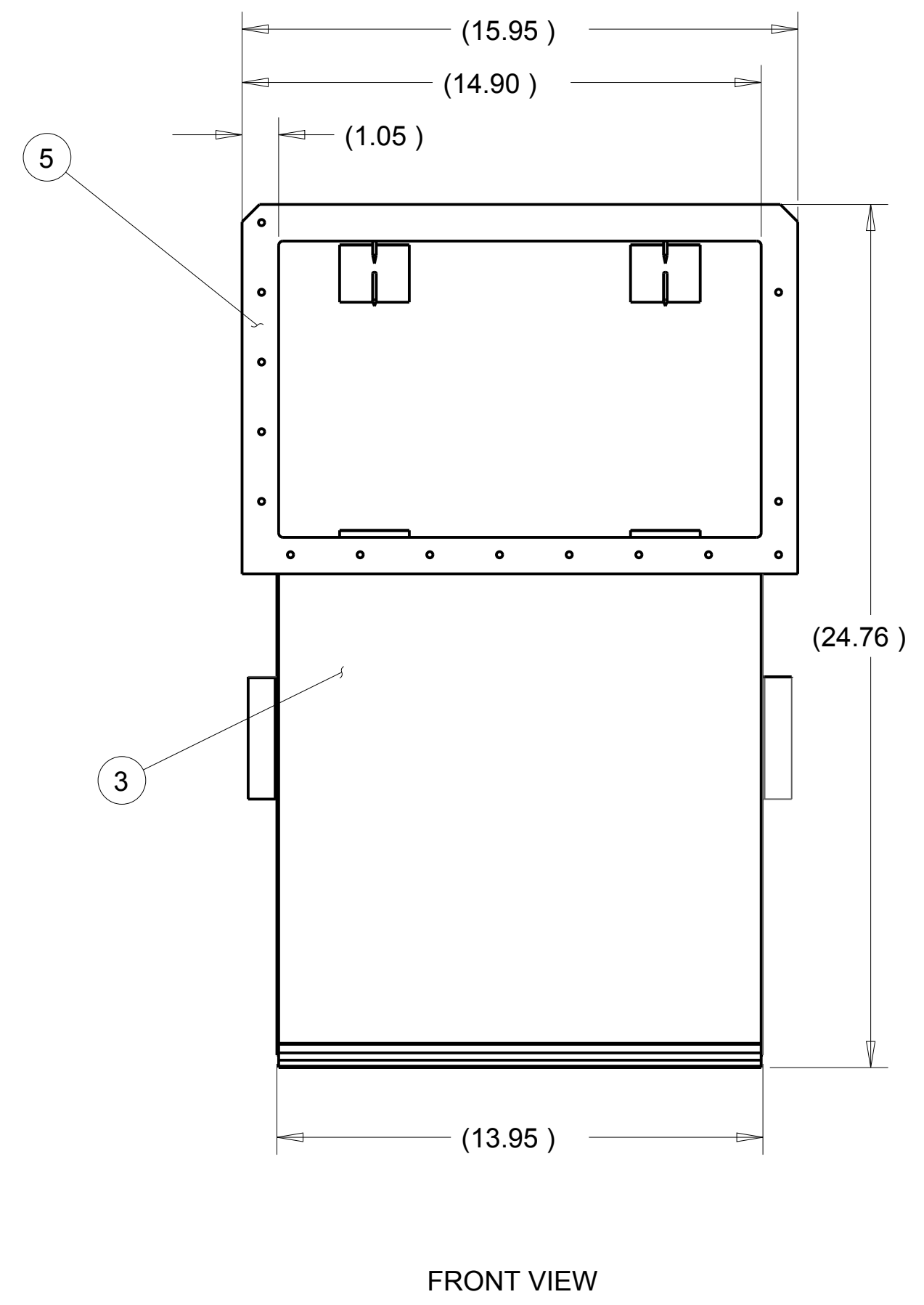
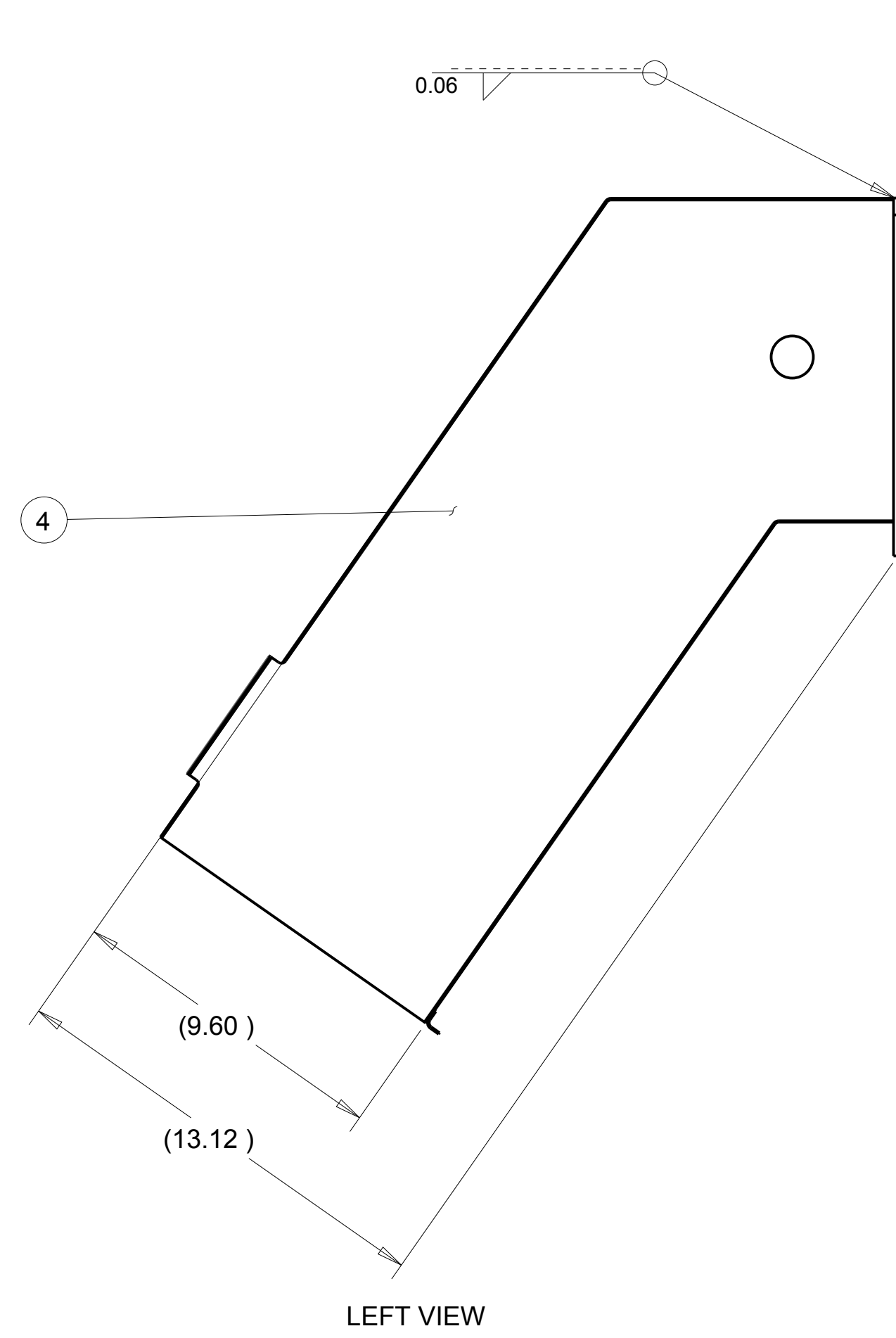
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

-	-	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01	CONTRACT NO	U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898						
-	-		W31P4Q-05-C-0136	TITLE						
-	-		DRAFTER BOGDAN GHITA	EJECTOR ASSEMBLY						
-	-		ENGINEER BOGDAN GHITA	STRESS	XXX					
-	-		CHECKER JIM SEAQUIST	MANAGER SUE O'BRIEN	SIZE	CAGE CODE	DWG NO	REV		
-	-		THIRD ANGLE PROJECTION	MANAGER SUE O'BRIEN	D	81996	1032329	X		
1032328	AGPU		SCALE	0.250	WEIGHT	- LBS	SHEET	1	OF	11
NEXT ASSY	USED ON		APPLICATION	3	2	1				

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY





DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1032329	X
SCALE	0.250	WEIGHT	- LBS	SHEET	3 OF 11

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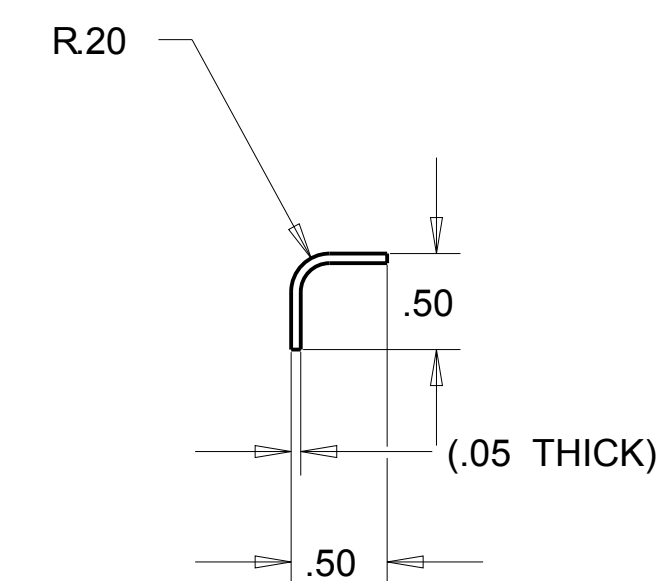
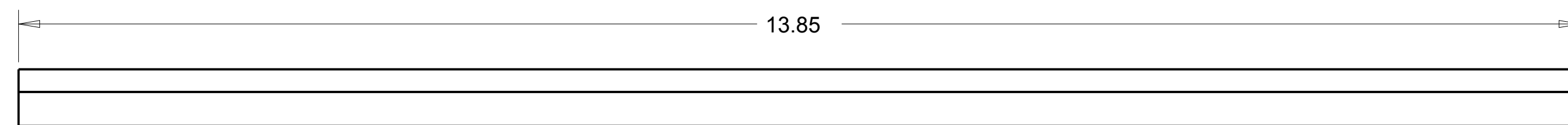
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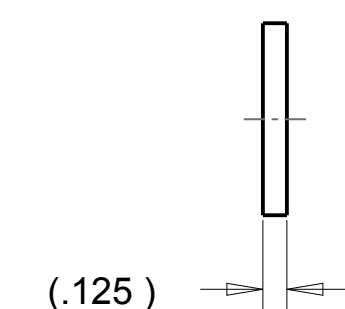
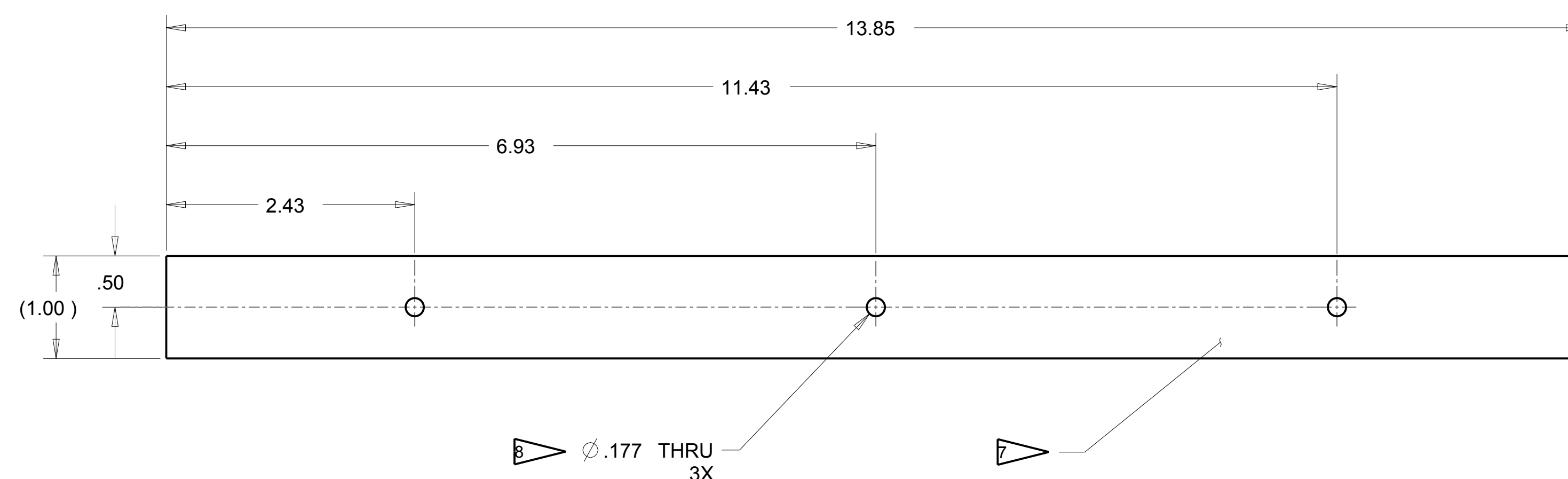


-07

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032329	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	1.000	WEIGHT	- LBS	SHEET	10 OF 11		

NOTES:

- 1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
- 2. SOME HIDDEN LINES REMOVED FOR CLARITY
- 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
- 4. SURFACE FINISH \sqrt{R} BETTER.
- 5. MATERIAL: 321 STAINLESS STEEL, PER ASTM-A240 1.00" X 0.125" STOCK FLAT BAR.
- 6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
- 7. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.
- 8. HOLES TO BE ADDED AT NEXT TOP ASSEMBLY 1032328.
- 9. DRAWING MUST ACCOMPANY PART.



-08

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	REV
D	81996	1032329	X
SCALE	1.000	WEIGHT	- LBS SHEET 11 OF 11

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RELEASE LEVEL

DWG NO

1032329

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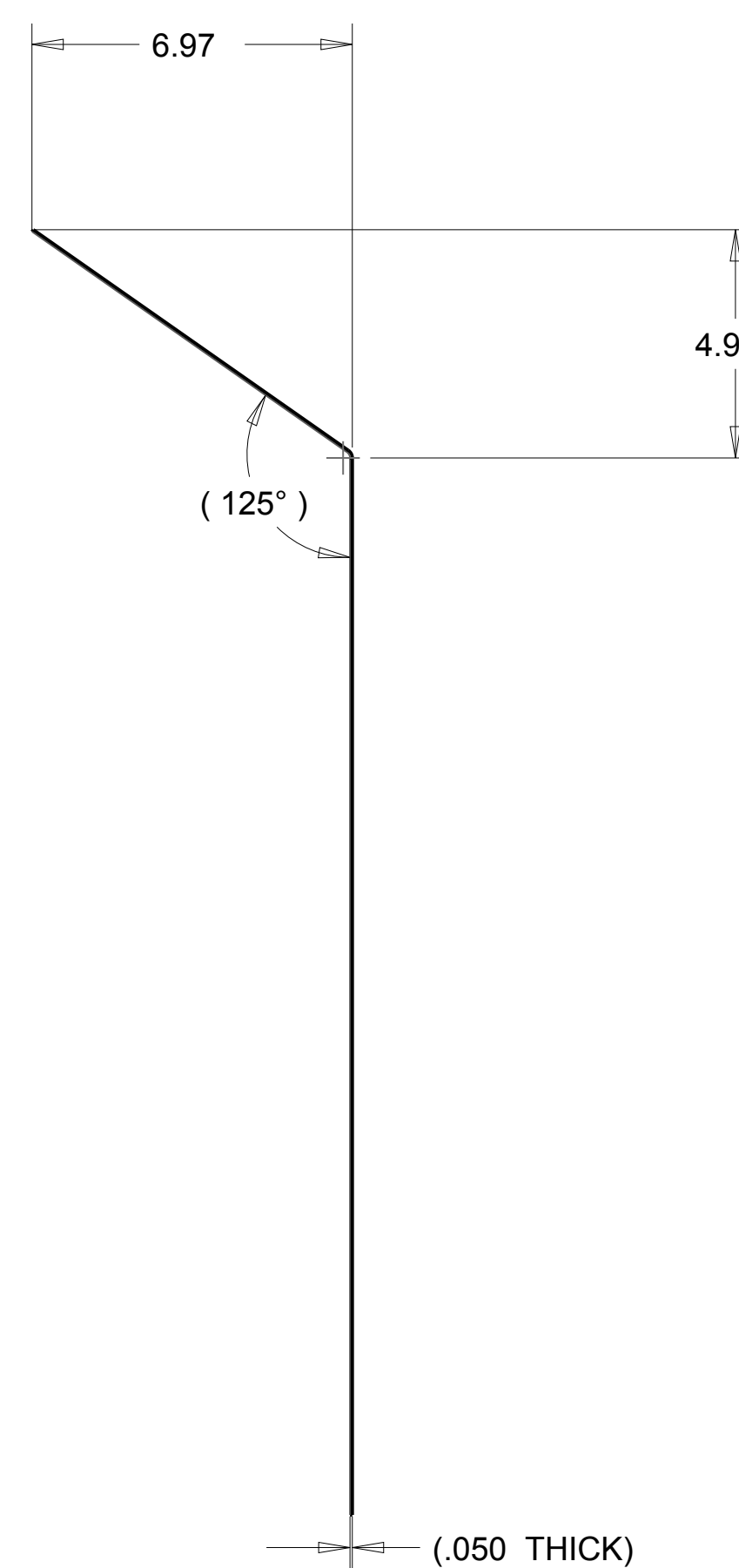
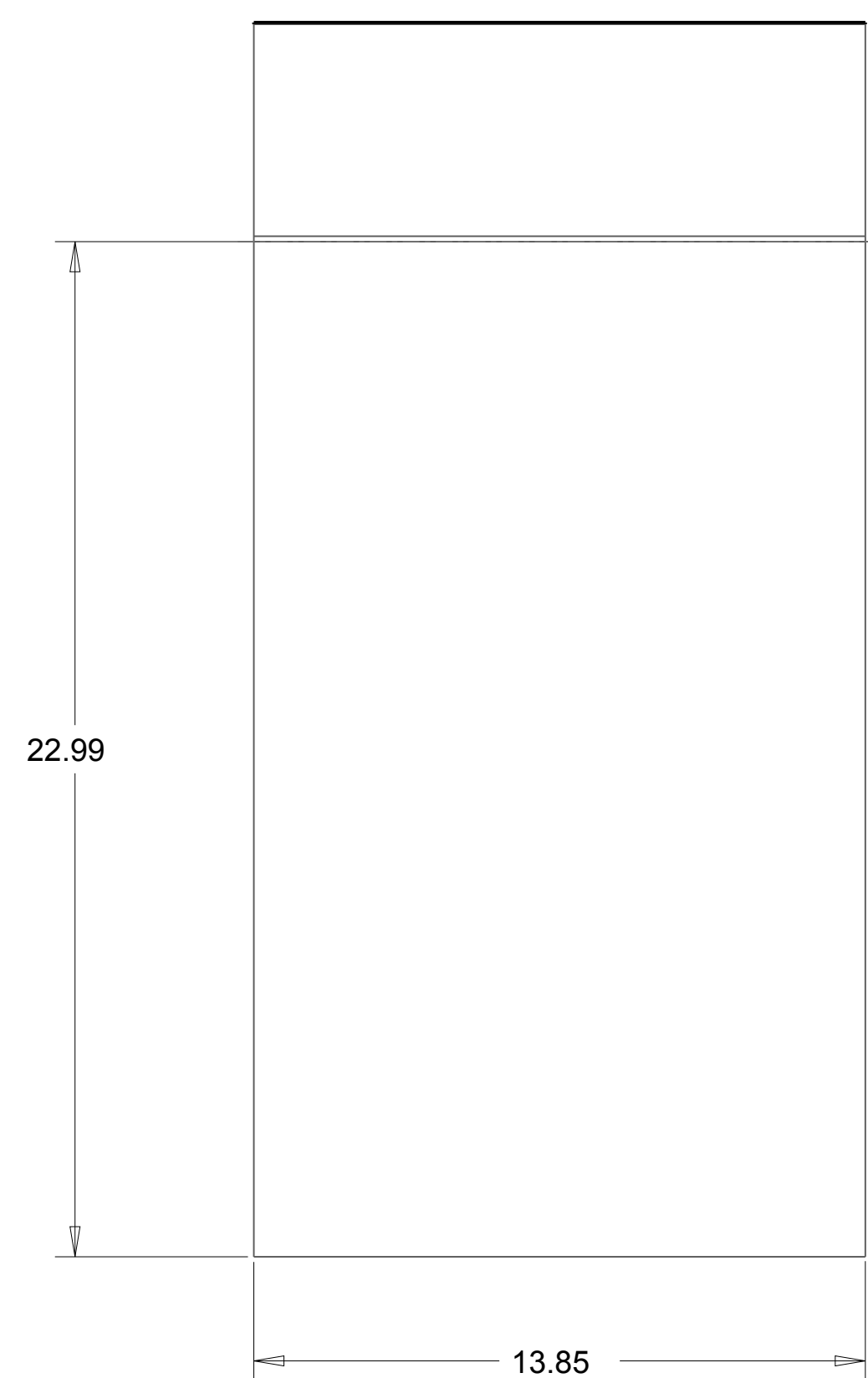
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-01

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE

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CAGE CODE

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DWG NO

1032329

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SCALE

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WEIGHT

- LBS

SHEET

4 OF 11

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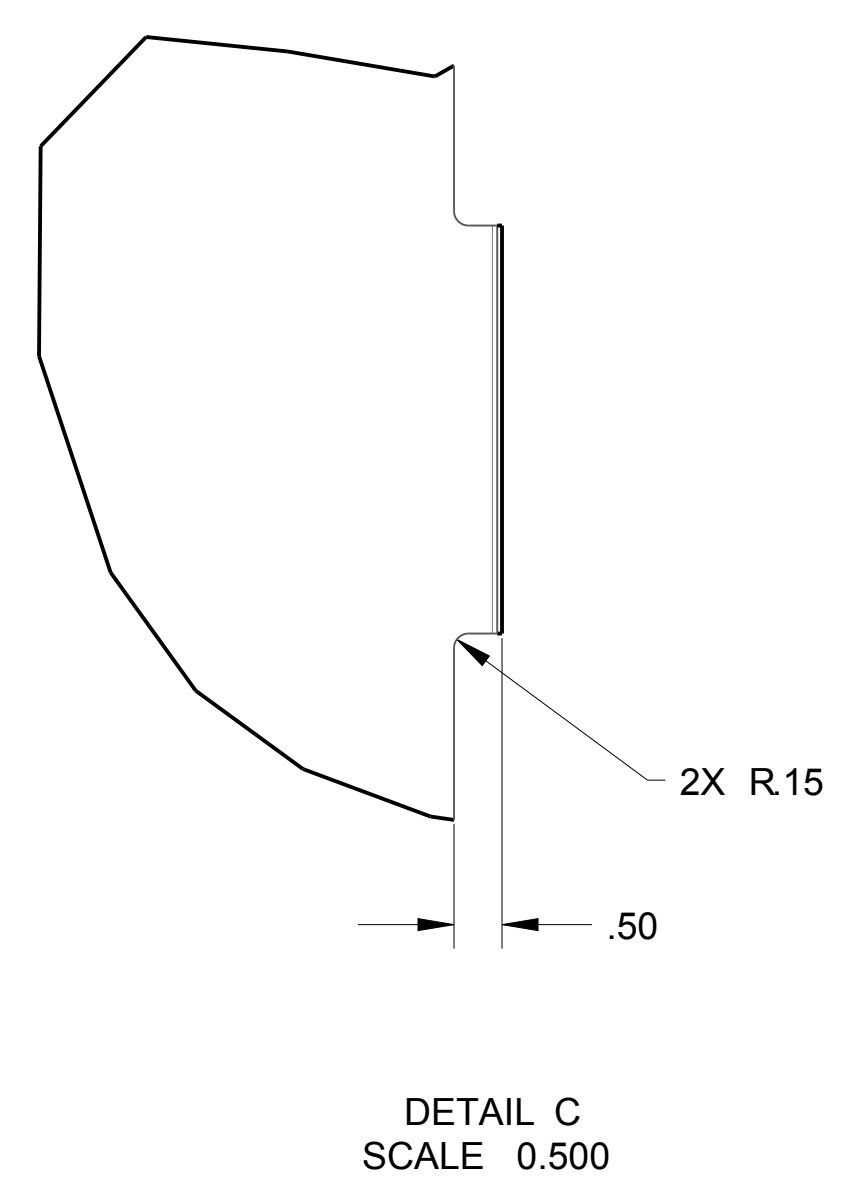
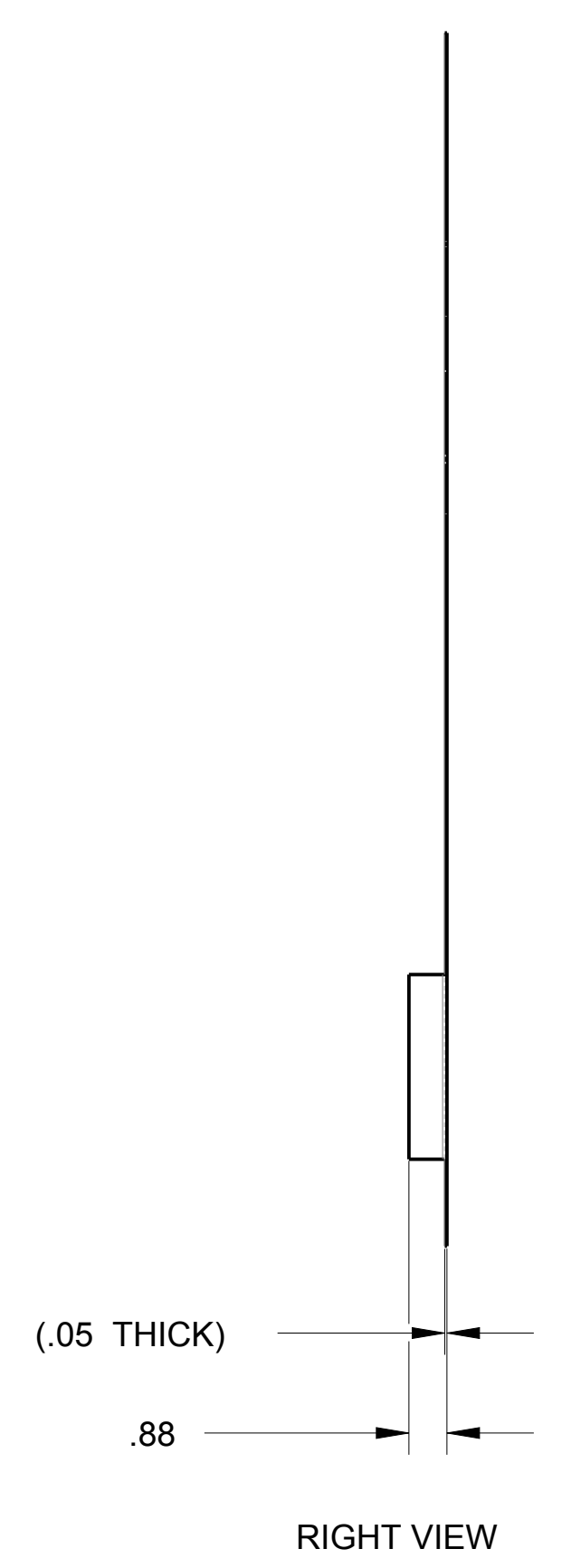
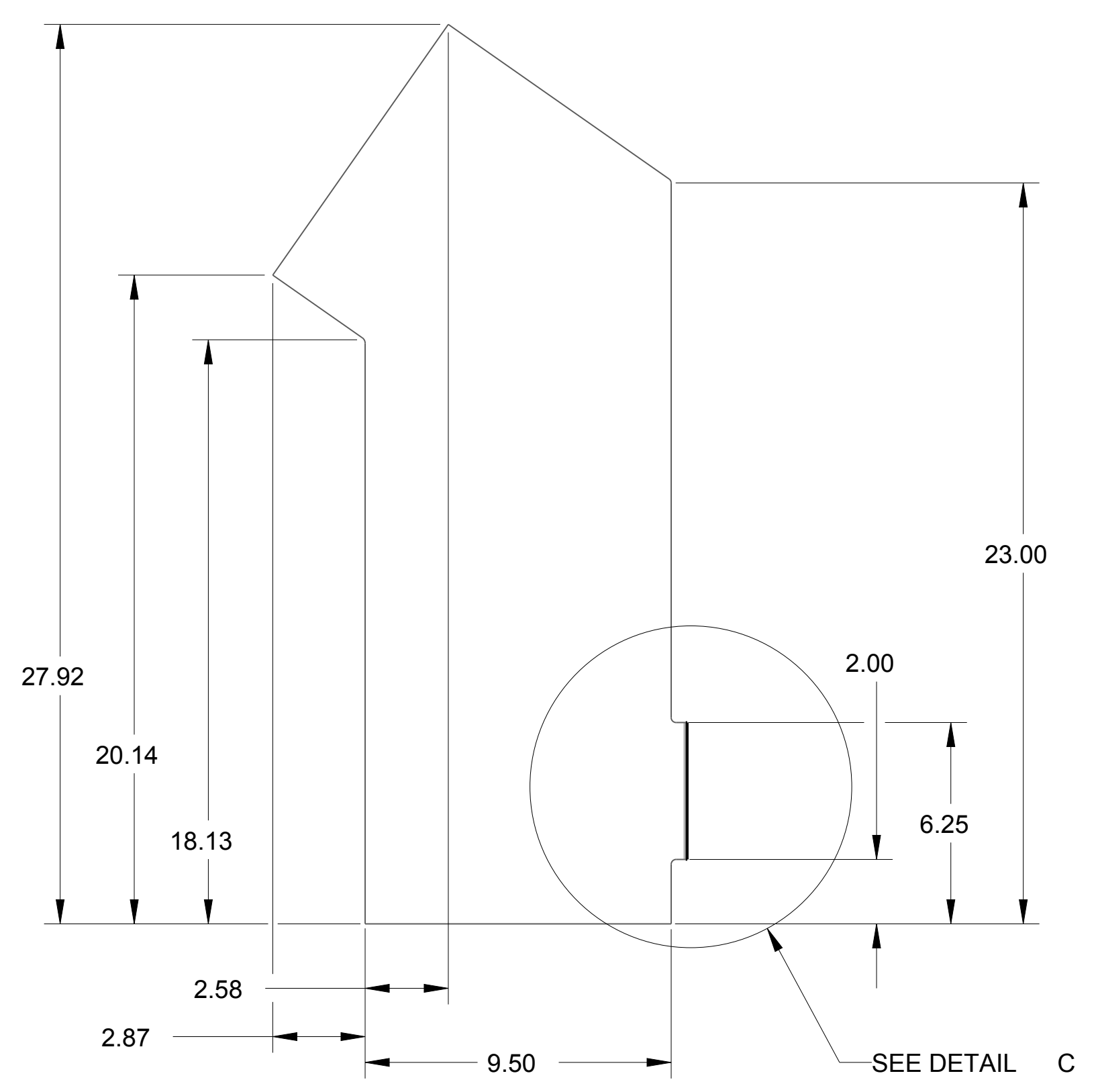
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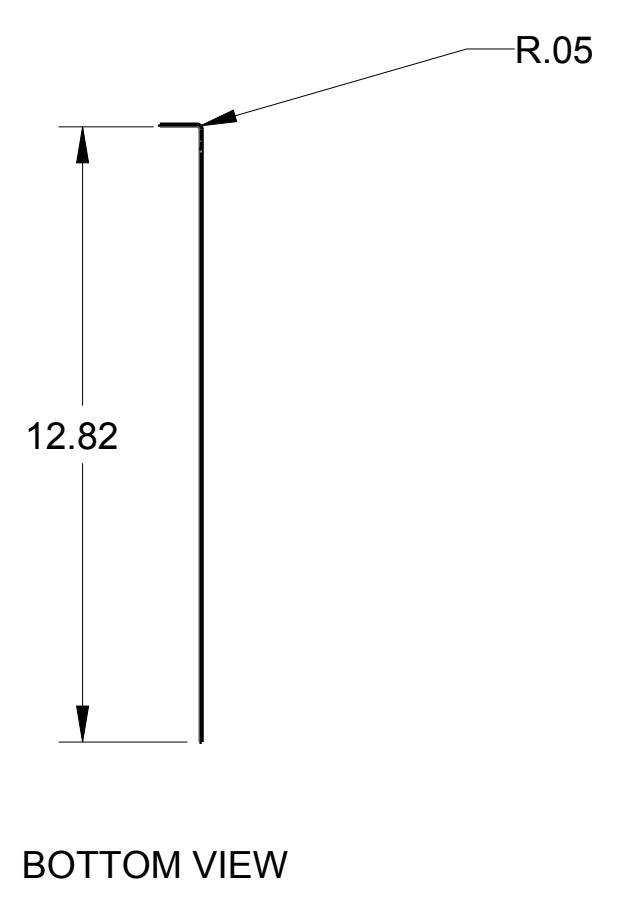
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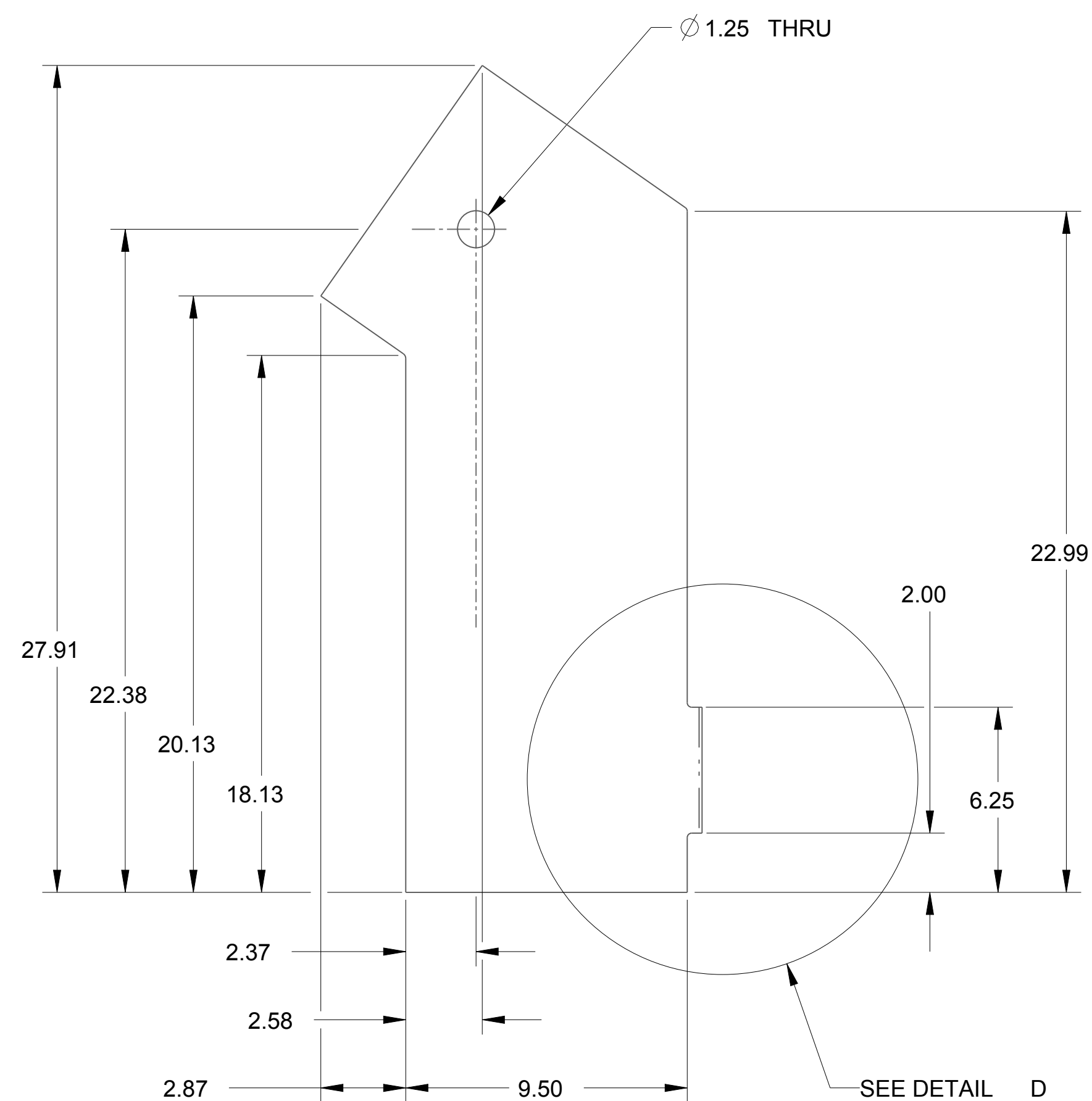
-02



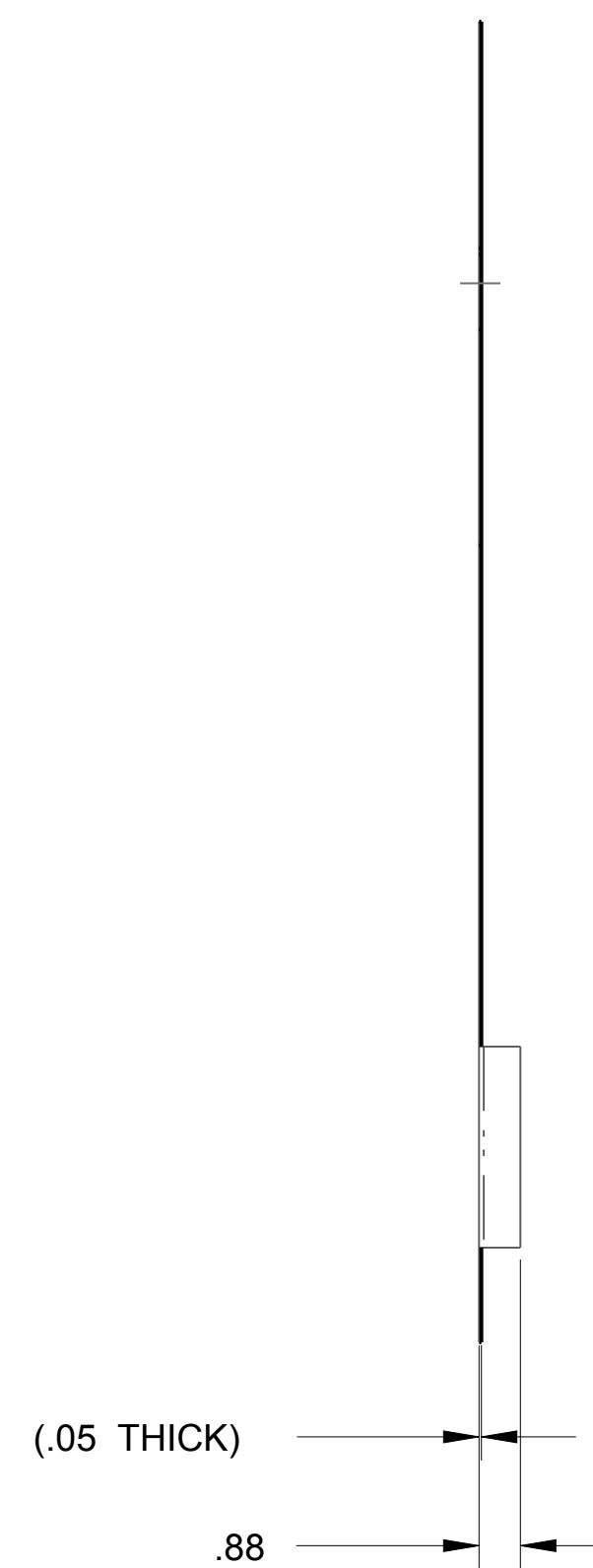
DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

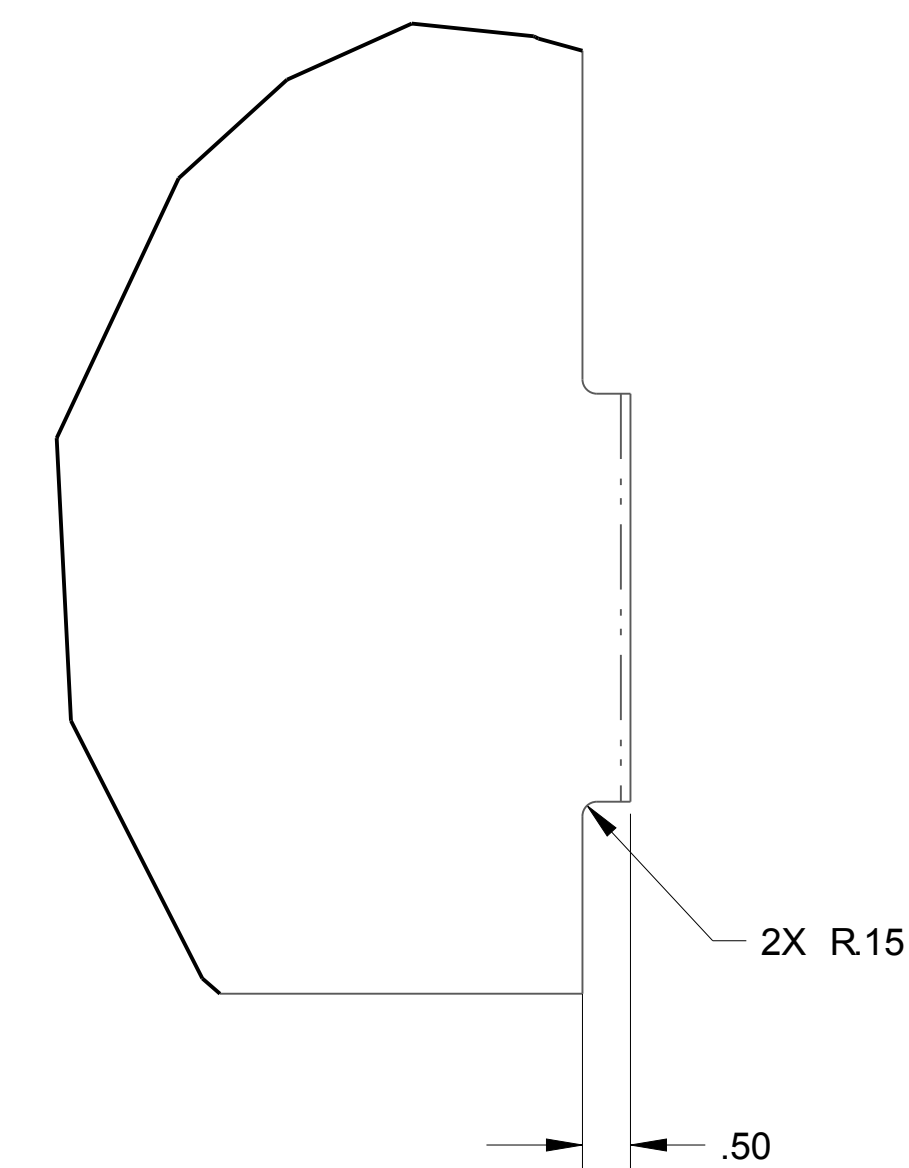
SIZE D	CAGE CODE 81996	DWG NO 1032329	REV X
SCALE 0.250	WEIGHT -LBS	SHEET 5 OF 11	



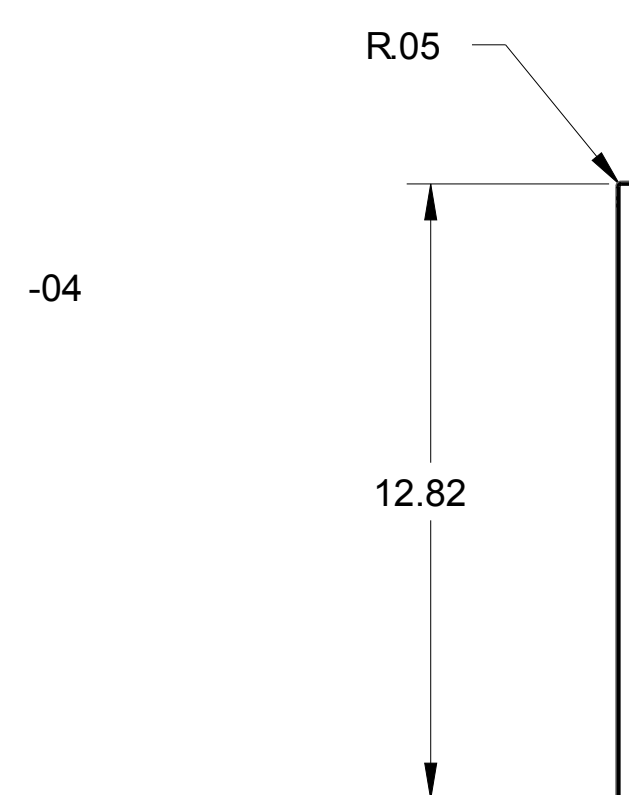
FRONT VIEW



RIGHT VIEW



DETAIL D
SCALE 0.500



BOTTOM VIEW

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032329	REV	X
D	81996				
SCALE	0.250	WEIGHT	- LBS	SHEET	7 OF 11

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RELEASE LEVEL

DWG NO

1032329

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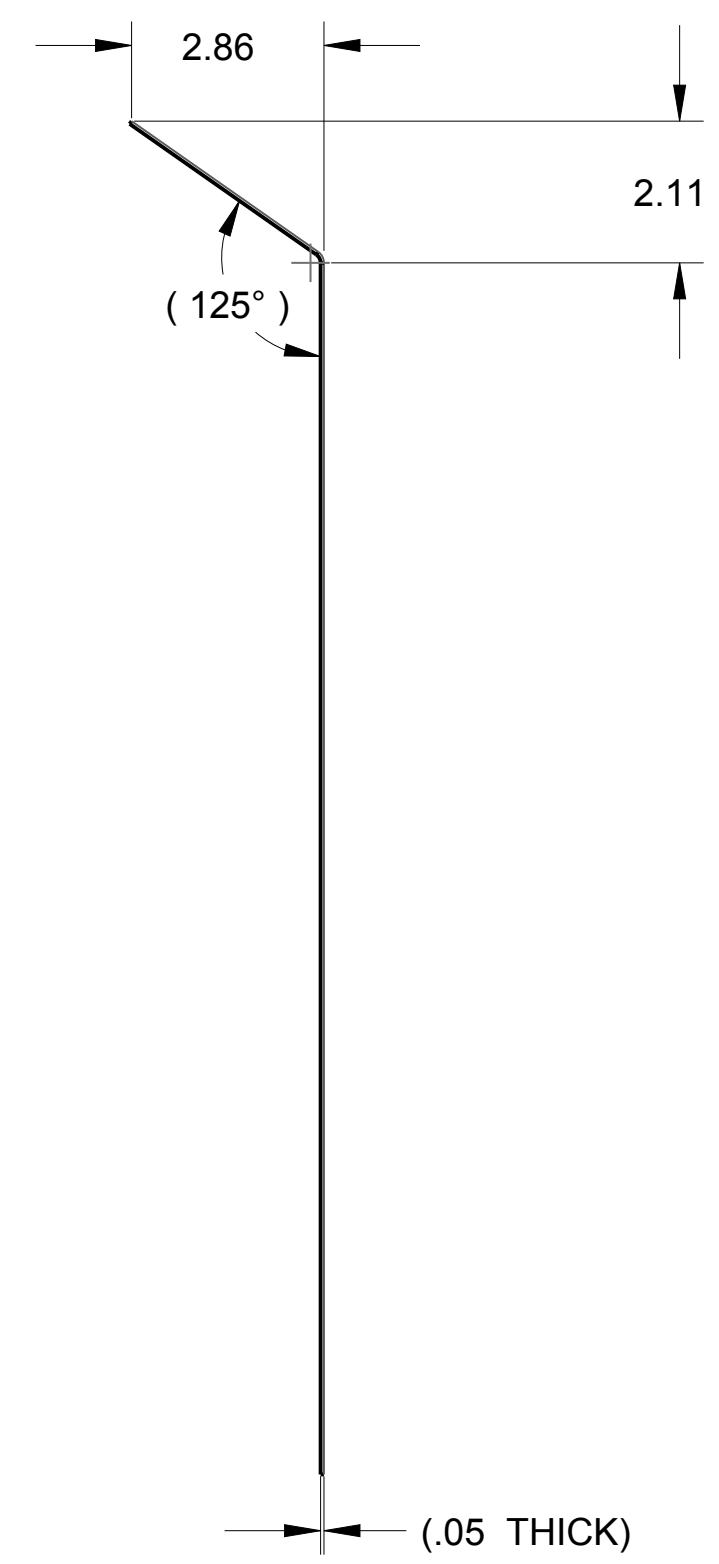
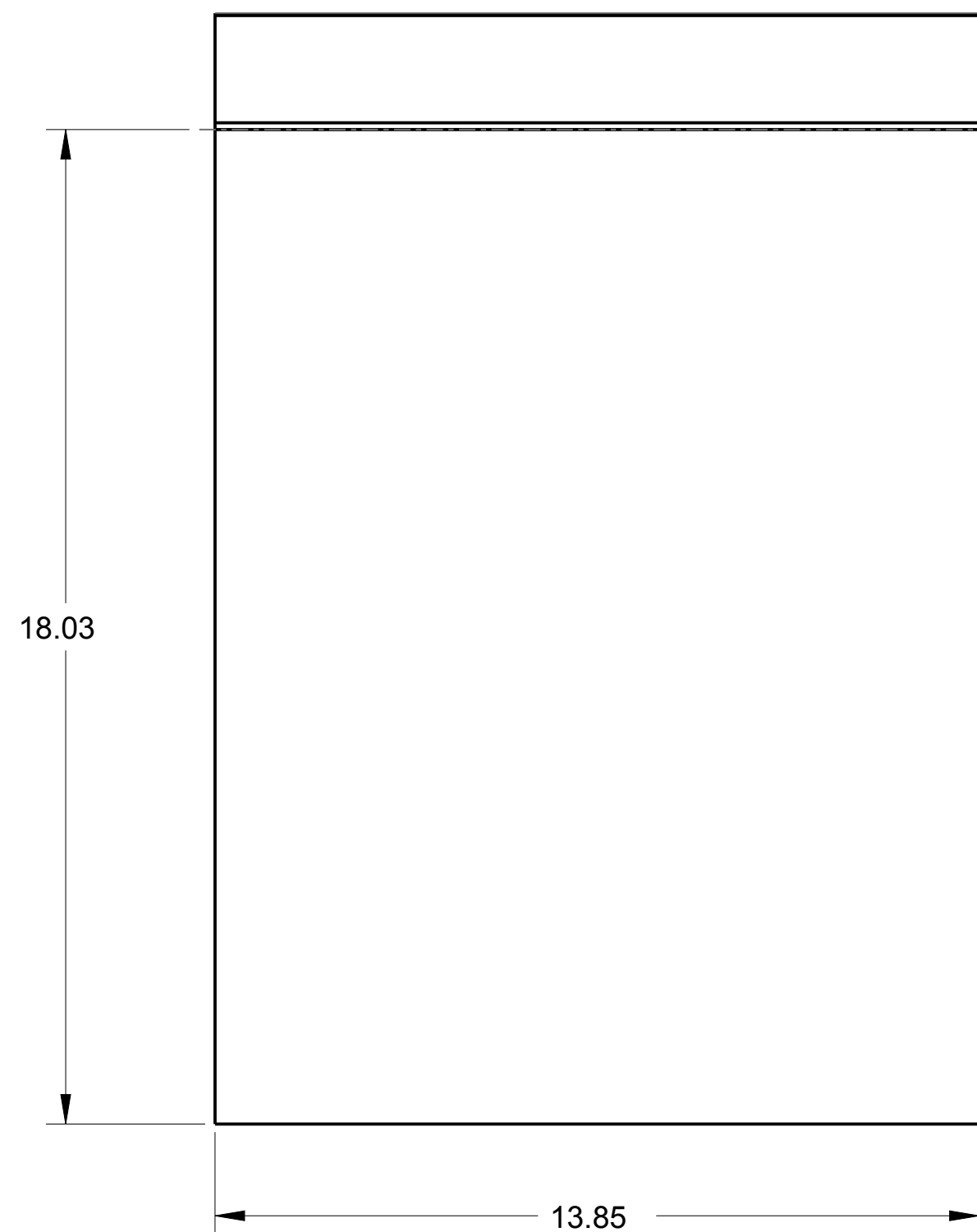
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-03

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032329	REV
FOR OFFICIAL USE ONLY		D	81996			X
SCALE	0.350	WEIGHT	- LBS	SHEET	6 OF 11	

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RELEASE LEVEL

DWG NO

1032329

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REV

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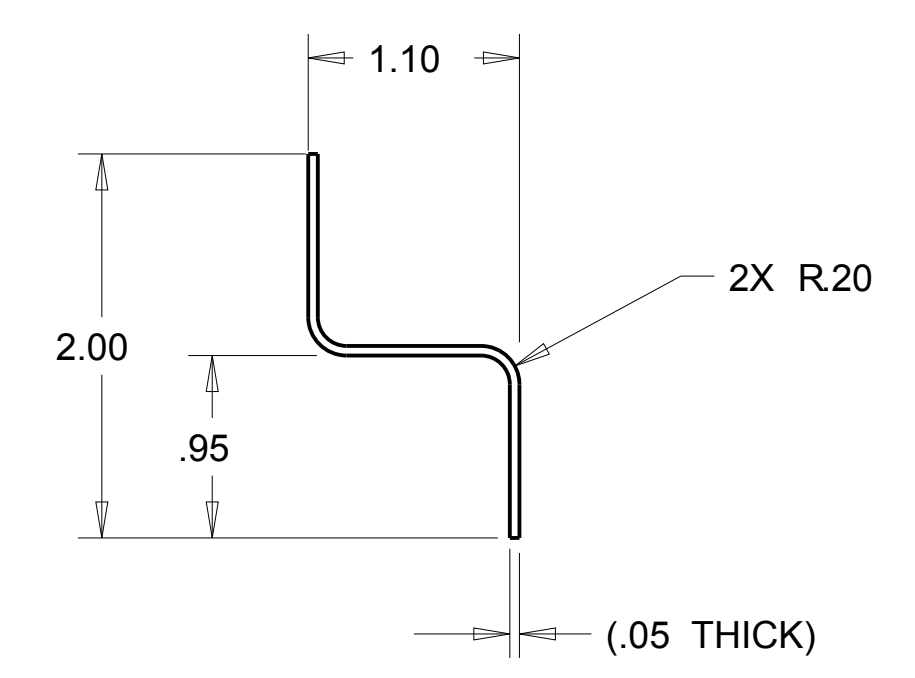
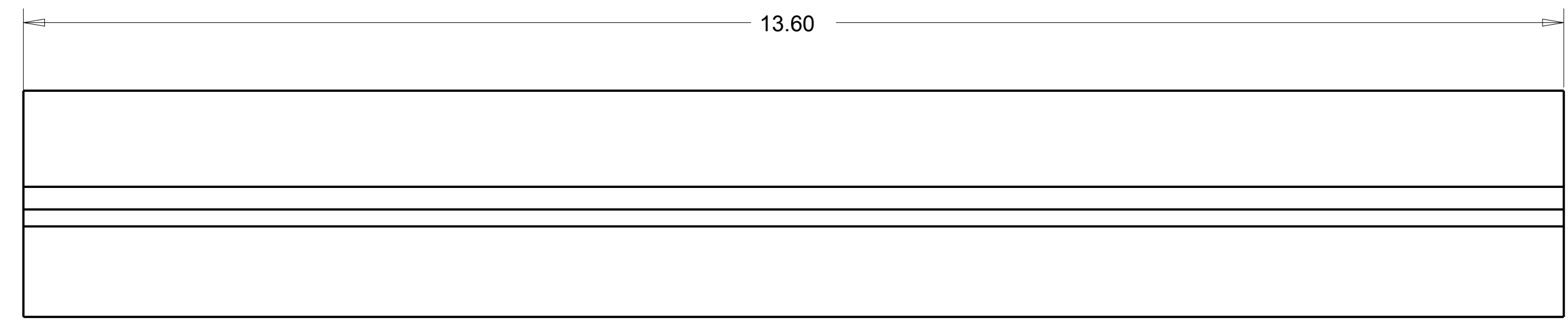
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-06

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY		D	81996	1032329	X
SCALE	1.000	WEIGHT	- LBS	SHEET	9 OF 11

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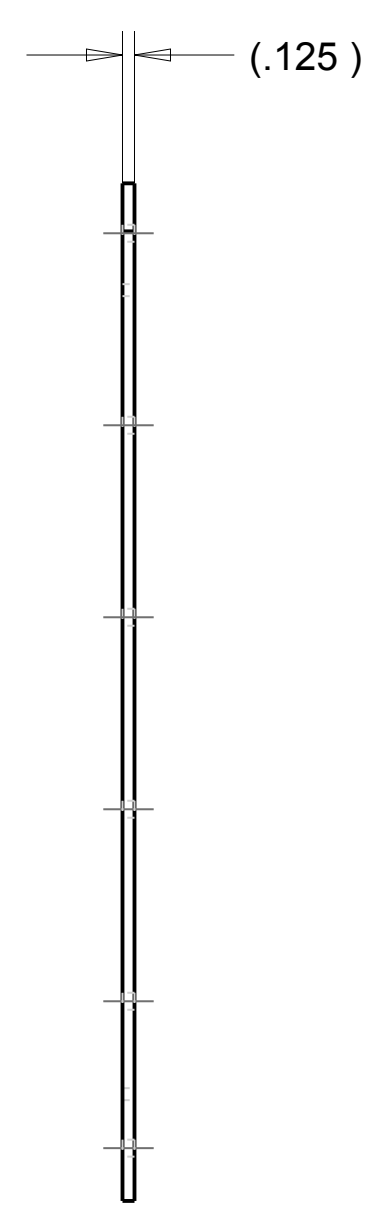
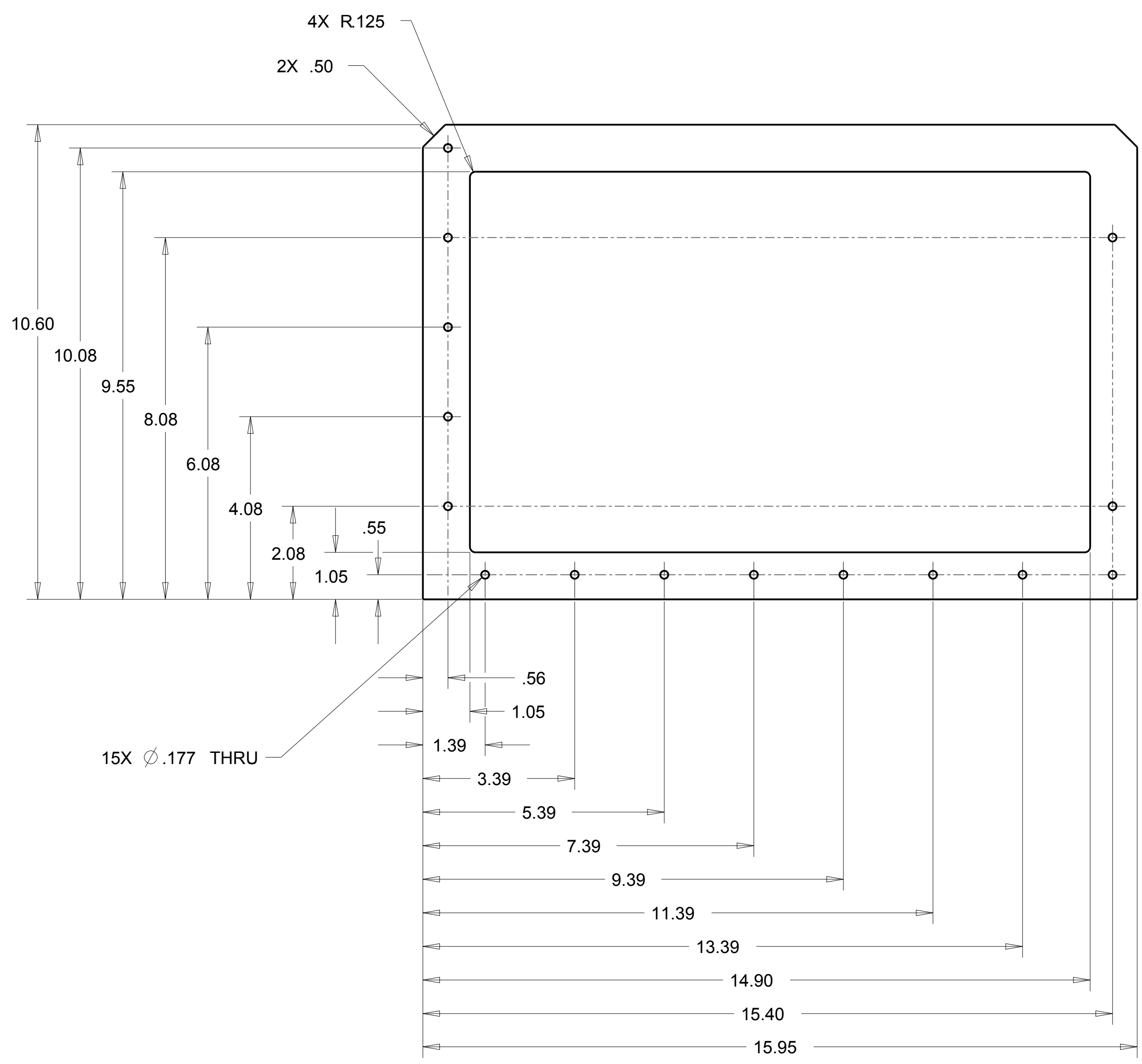
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-05

DRAWING RESTRICTIONS

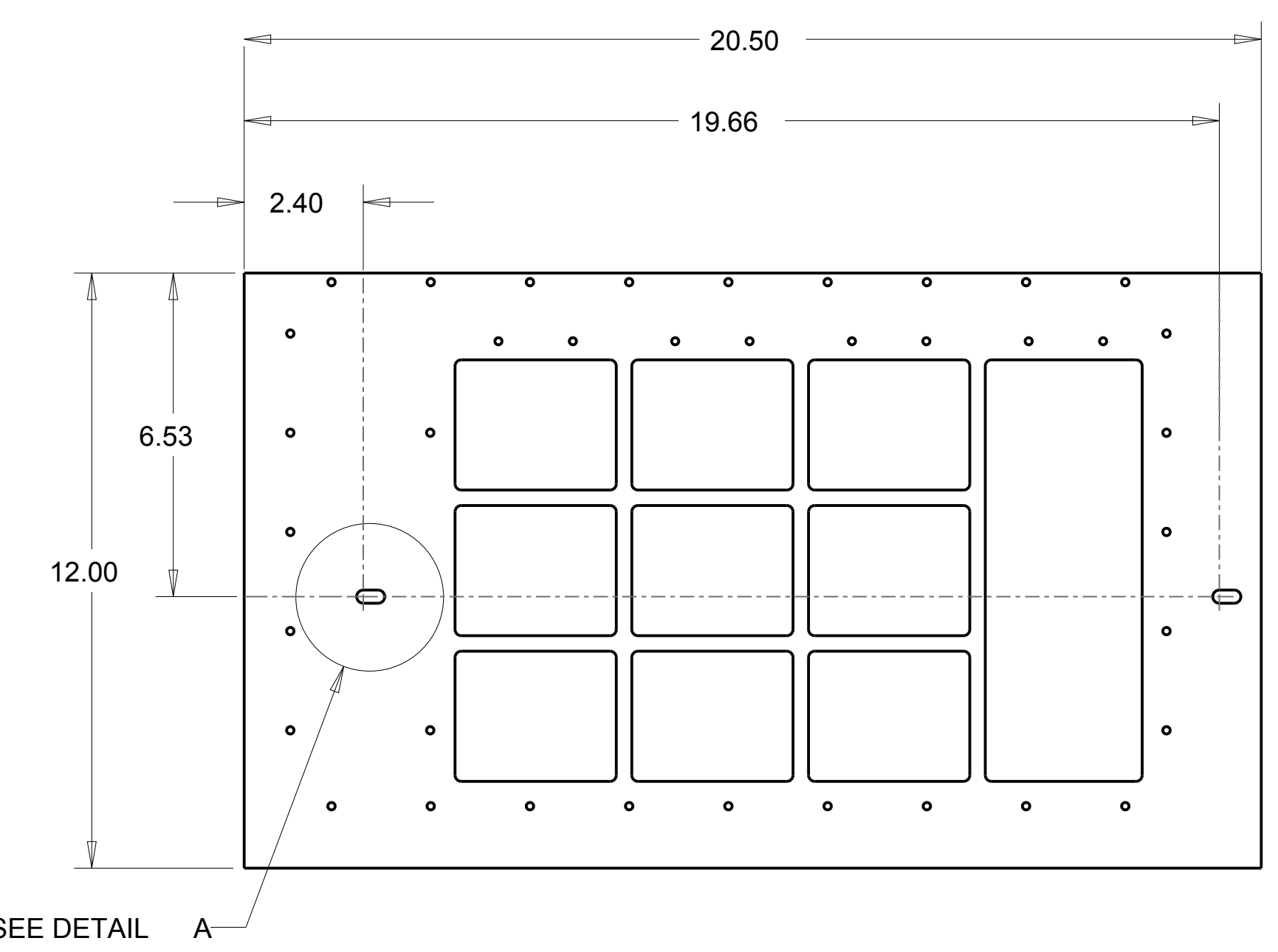
FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032329	REV	X
D	81996				
SCALE	0.500	WEIGHT	- LBS	SHEET	8 OF 11

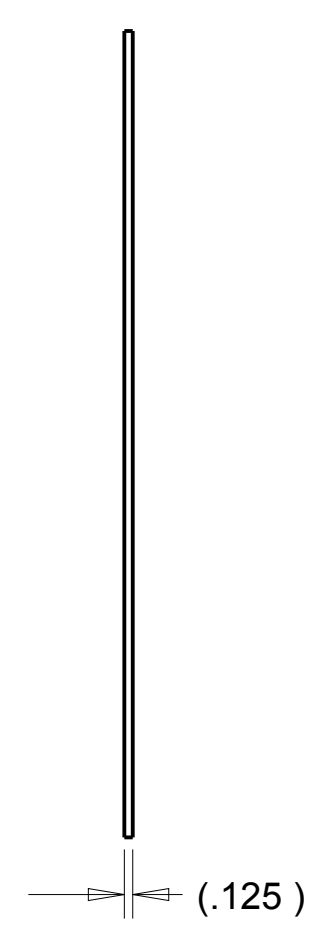
- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. SURFACE FINISH $\text{O} \times$ BETTER.
 5. MATERIAL: 321 STAINLESS STEEL PER ASTM-A240, 0.125" STOCK THICKNESS.
 6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.

REV STATUS	
REV	SH
-	ALL

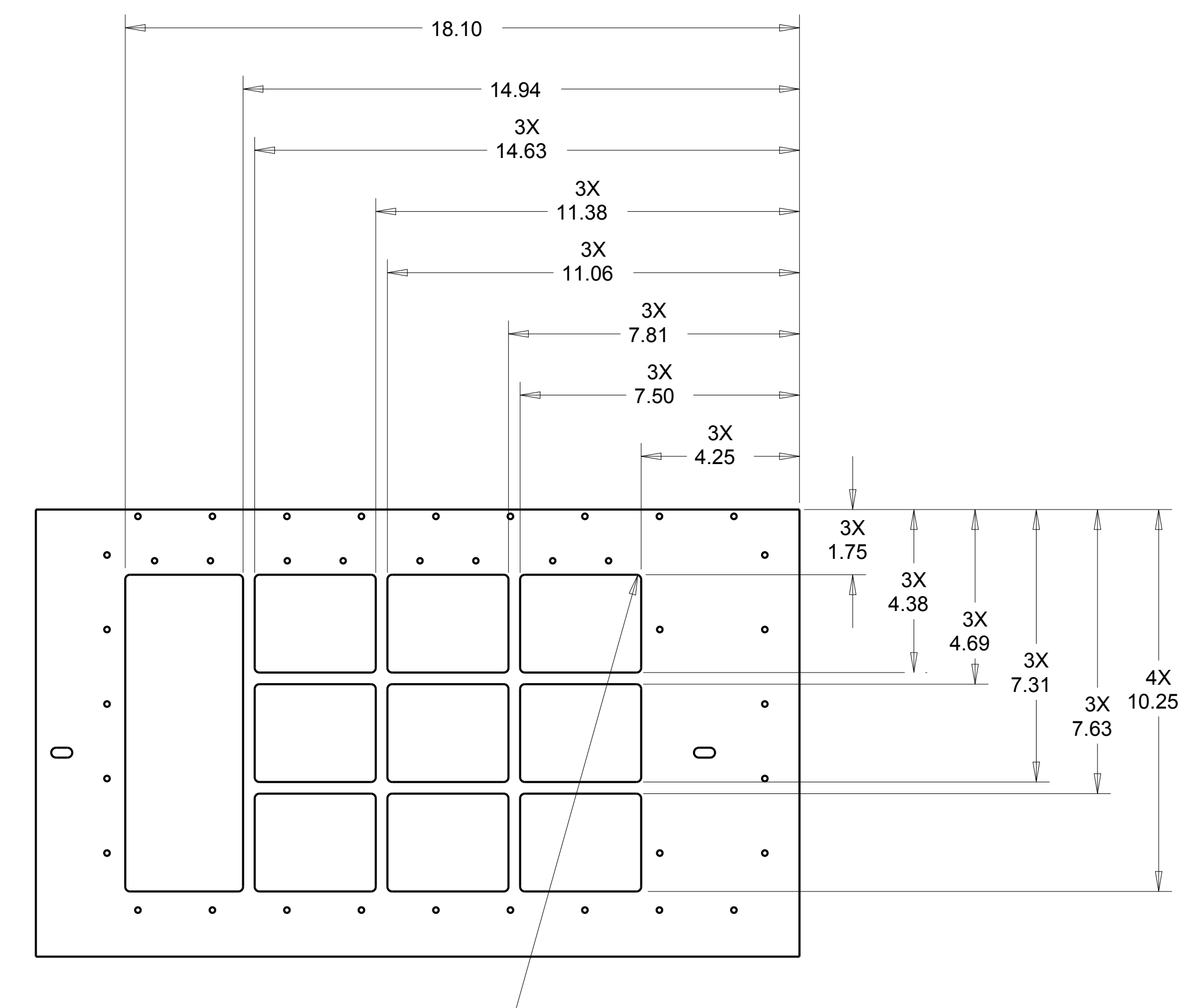
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



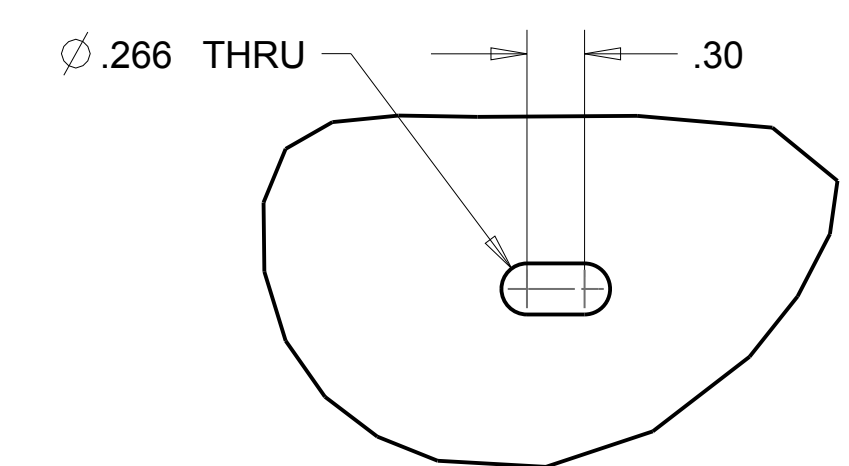
BOTTOM VIEW



RIGHT VIEW



TOP VIEW



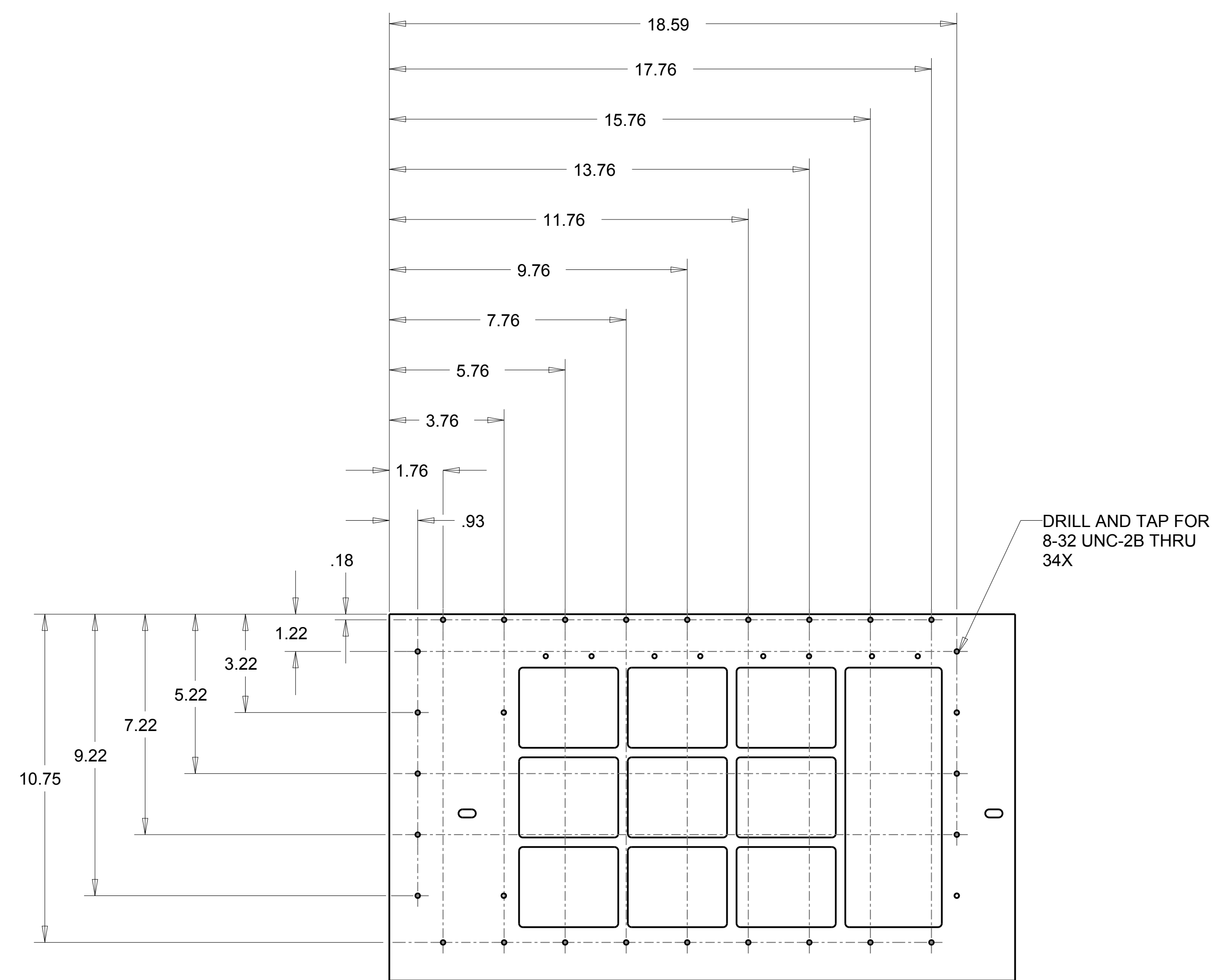
DETAIL A
SCALE 1.000
2 PLACES

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

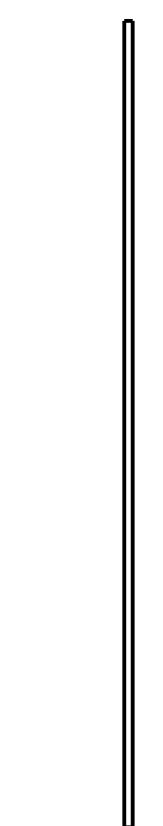
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES $\pm .5^\circ$ - 3 PLACE DECIMALS $\pm .005$ - 2 PLACE DECIMALS $\pm .01$		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE TOP FLANGE, EJECTOR ASSEMBLY, AGPU	
1032328 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		STRESS XXX	
NEXT ASSY USED ON		SCALE D 0.350		CAGE CODE 81996	
APPLICATION		DWG NO 1032334		REV X	
DRAWING RESTRICTIONS		SCALE 0.350		WEIGHT - LBS SHEET 1 OF 2	

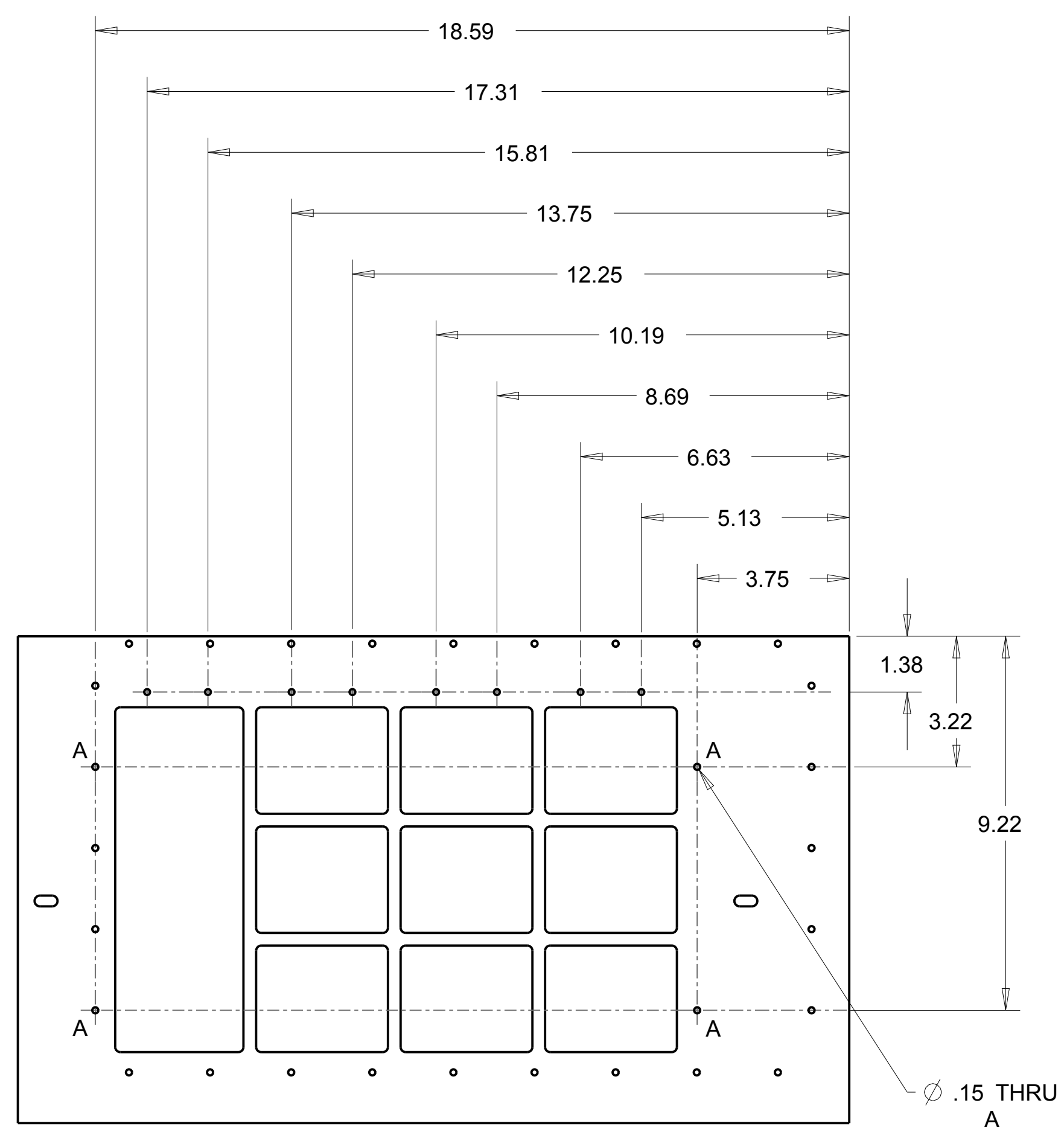
FOR OFFICIAL USE ONLY



BOTTOM VIEW



RIGHT VIEW



TOP VIEW

DRAWING RESTRICTIONS		SIZE	CAGE CODE	DWG NO	1032334	REV	X
FOR OFFICIAL USE ONLY		D	81996				
SCALE	0.350	WEIGHT	- LBS	SHEET	2	OF	2

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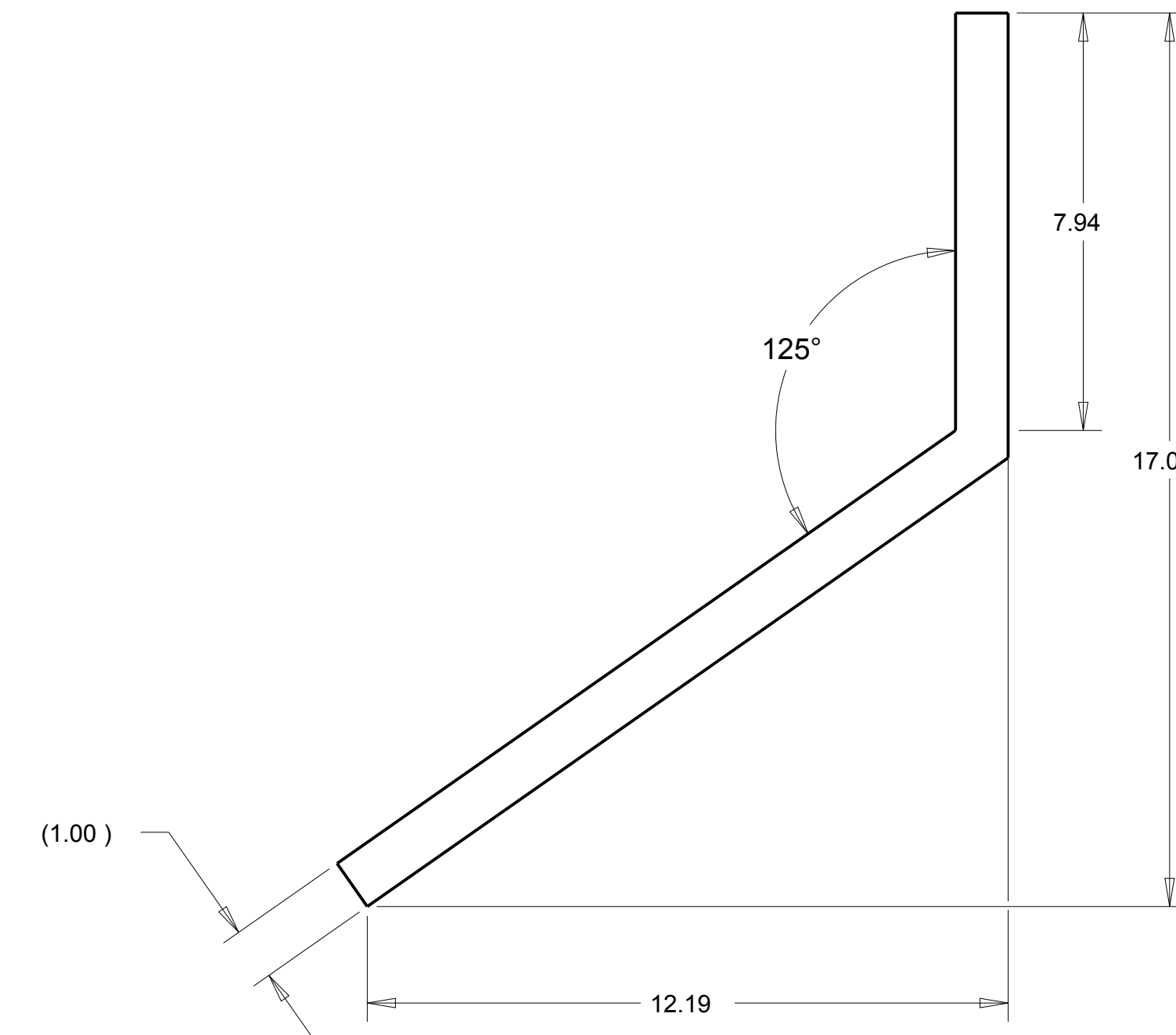
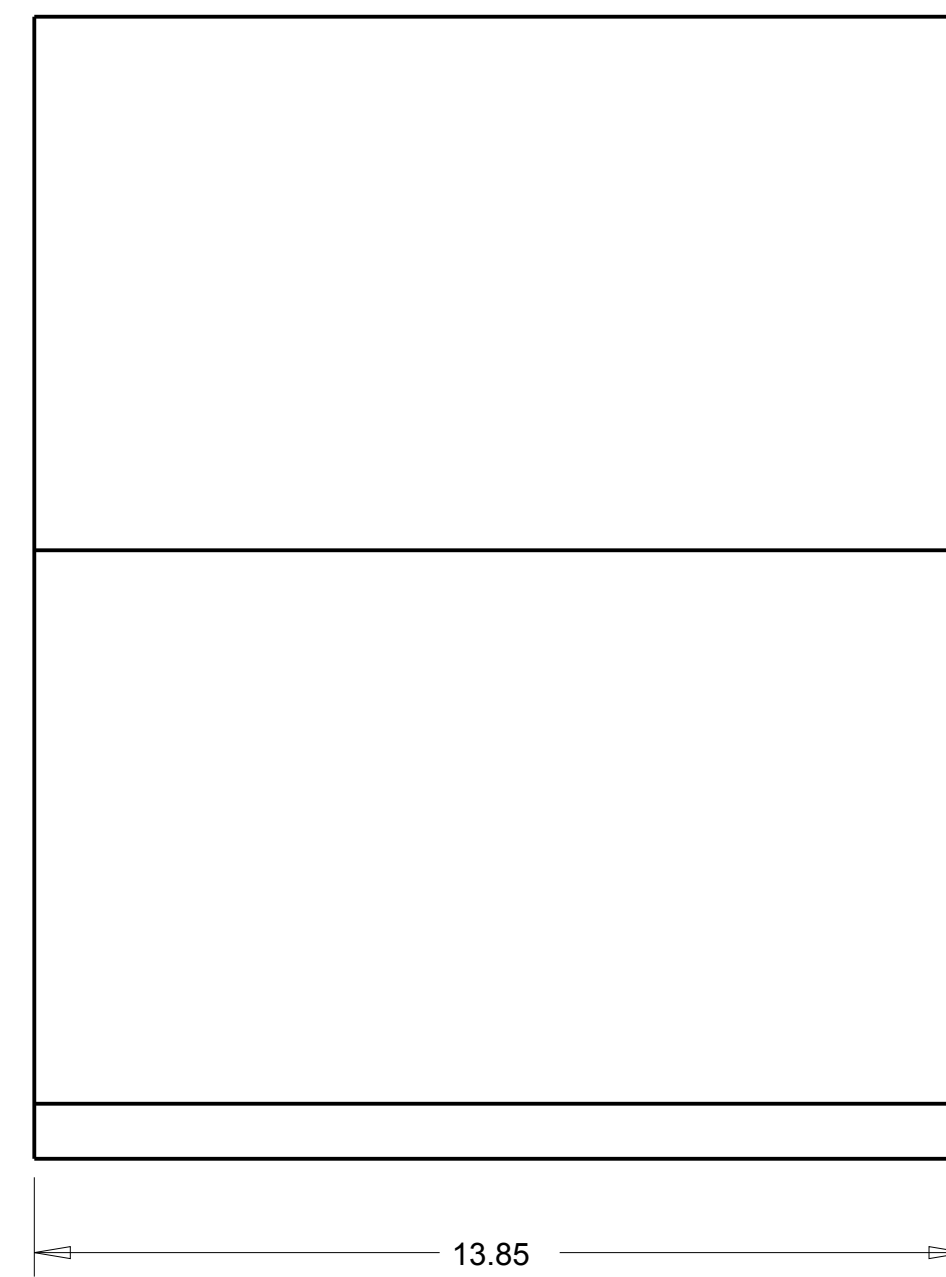
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. MATERIAL: KAOWOOL #8, 8 LB/CU FT, CERAMIC FIBER BLANKET PER MIL-I-23128B.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-

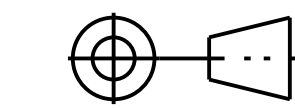


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-		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01	CONTRACT NO		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898
-			W31P4Q-05-C-0136		
-			DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		
-			THIRD ANGLE PROJECTION		TITLE
-			1032328 AGPU		INSIDE INSULATION, EJECTOR BACK
-			NEXT ASSY USED ON		
-		APPLICATION		STRESS	XXX
-		DRAWING RESTRICTIONS		CHECKER	JIM SEAQUIST
-		FOR OFFICIAL USE ONLY		MANAGER	SUE O'BRIEN
-		DRAWING RESTRICTIONS		SIZE	D
-		FOR OFFICIAL USE ONLY		CAGE CODE	81996
-		FOR OFFICIAL USE ONLY		DWG NO	1032338
-		FOR OFFICIAL USE ONLY		SCALE	0.350
-		FOR OFFICIAL USE ONLY		WEIGHT	- LBS
-		FOR OFFICIAL USE ONLY		SHEET	1 OF 1
-		FOR OFFICIAL USE ONLY		REV	X

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY



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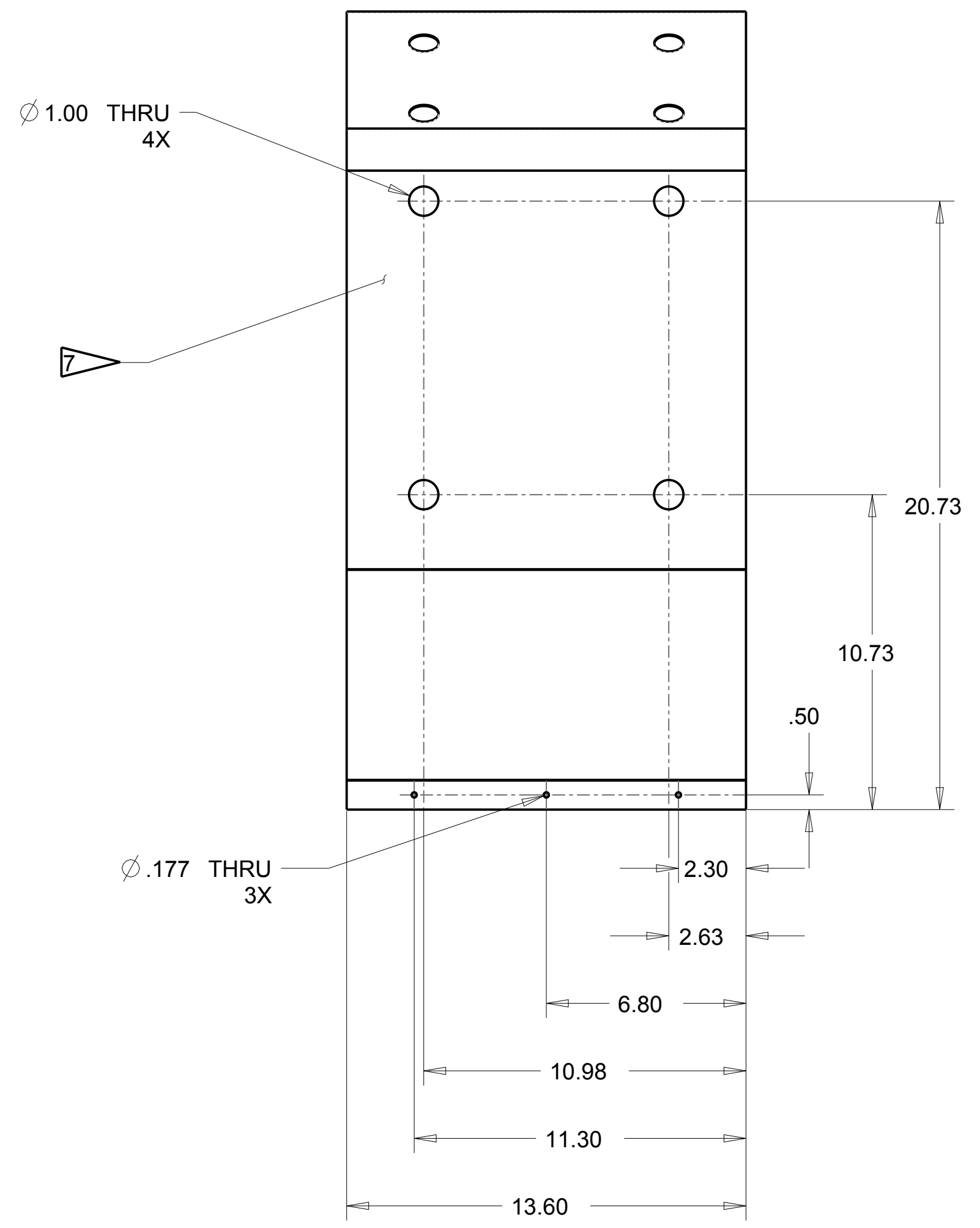
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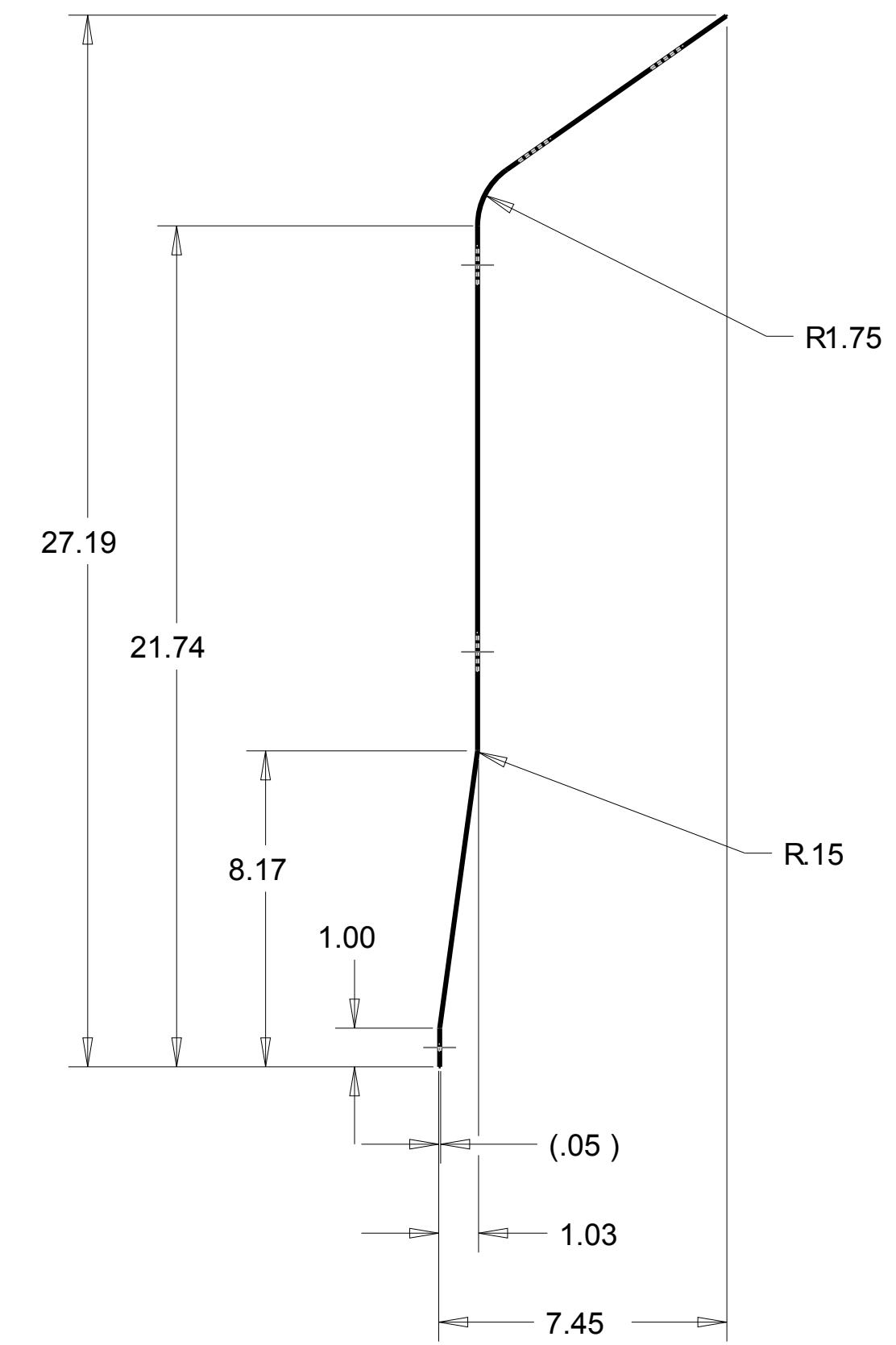
- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. SURFACE FINISH \sqrt{R} BETTER.
 5. MATERIAL: 321 STAINLESS STEEL SHEET PER ASTM-A240, 0.05" STOCK THICKNESS.
 6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
- IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



TOP VIEW



SIDE VIEW

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES $\pm .5^\circ$ - 3 PLACE DECIMALS $\pm .005$ - 2 PLACE DECIMALS $\pm .01$		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE INSIDE PLATE, EJECTOR BACK	
1032328 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		STRESS XXX	
NEXT ASSY USED ON		DRAWING RESTRICTIONS		SIZE D	
APPLICATION		FOR OFFICIAL USE ONLY		CAGE CODE 81996	
				DWG NO 1032339	
				REV X	
				SCALE 0.250	
				WEIGHT - LBS	
				SHEET 1 OF 2	

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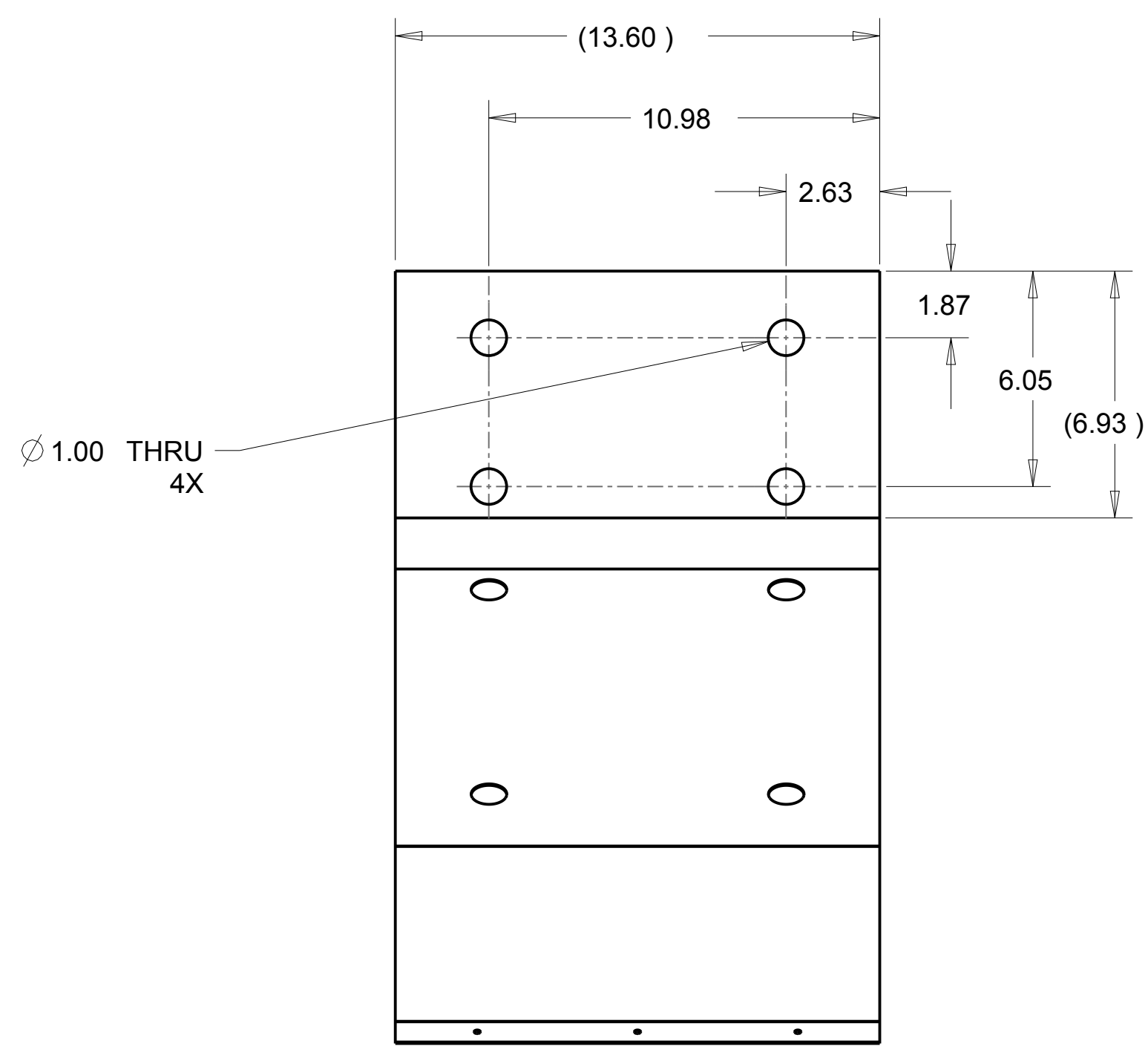
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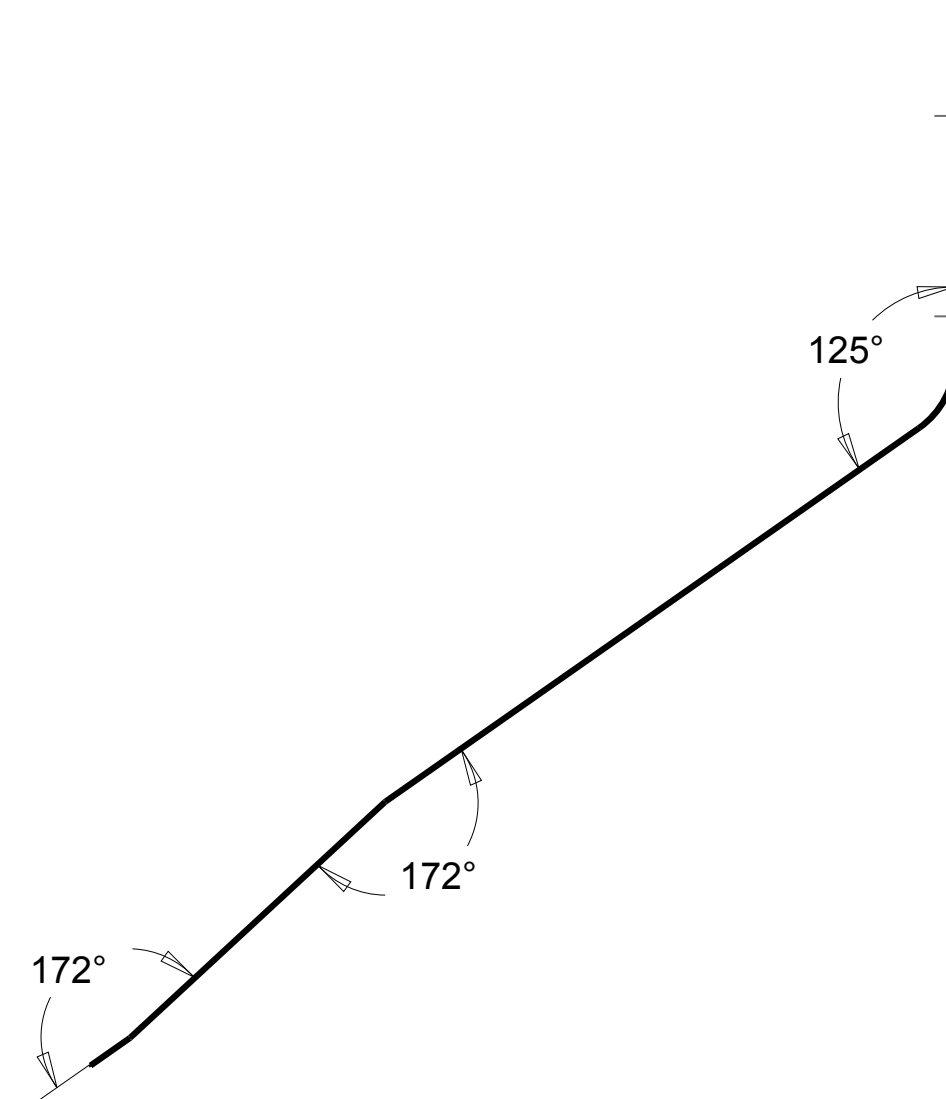
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FRONT VIEW



SIDE VIEW

DRAWING RESTRICTIONS

FOR OFFICIAL USE ONLY

SIZE	CAGE CODE	DWG NO	1032339	REV	X
D	81996				
SCALE	0.250	WEIGHT	- LBS	SHEET	2 OF 2

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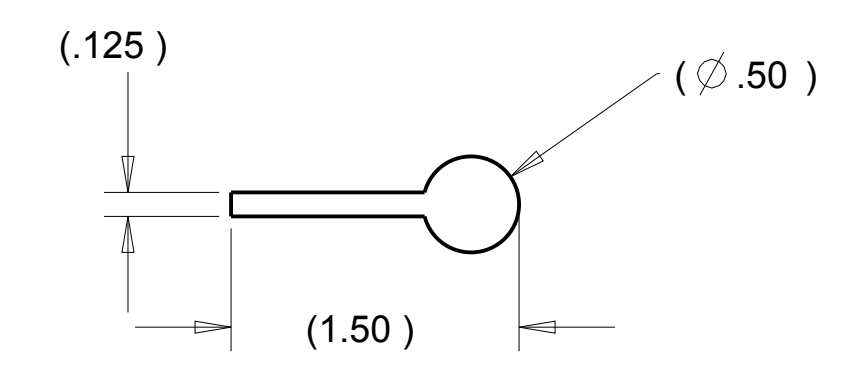
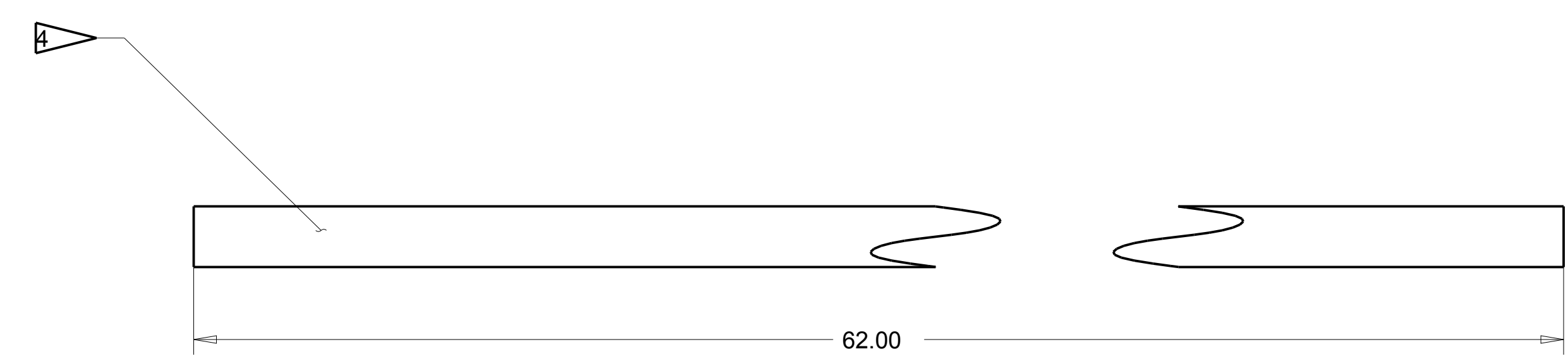
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. MATERIAL: FIBERGLASS COVER WITH FIBERGLASS CORE
MAKE FROM HIGH-TEMPERATURE FLANGE-MOUNT SEAL,
SUPPLIED BY Mc-MASTER-CARR, PN 8815K21; OR EQUIVALENT.
 4. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS.		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
- ANGLES ± .5°	- 3 PLACE DECIMALS ± .005	- 2 PLACE DECIMALS ± .01	DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		
THIRD ANGLE PROJECTION			STRESS XXX		
1032328 AGPU			CHECKER JIM SEAQUIST		
NEXT ASSY USED ON			MANAGER SUE O'BRIEN		
APPLICATION			SIZE D	CAGE CODE 81996	DWG NO 1032340
DRAWING RESTRICTIONS			SCALE 1.000	WEIGHT - LBS	SHEET 1 OF 1
FOR OFFICIAL USE ONLY			REV X	REV X	

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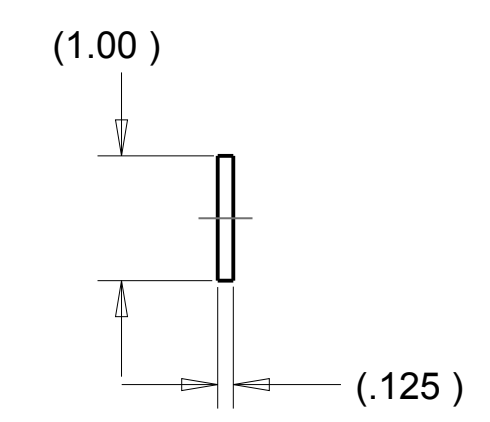
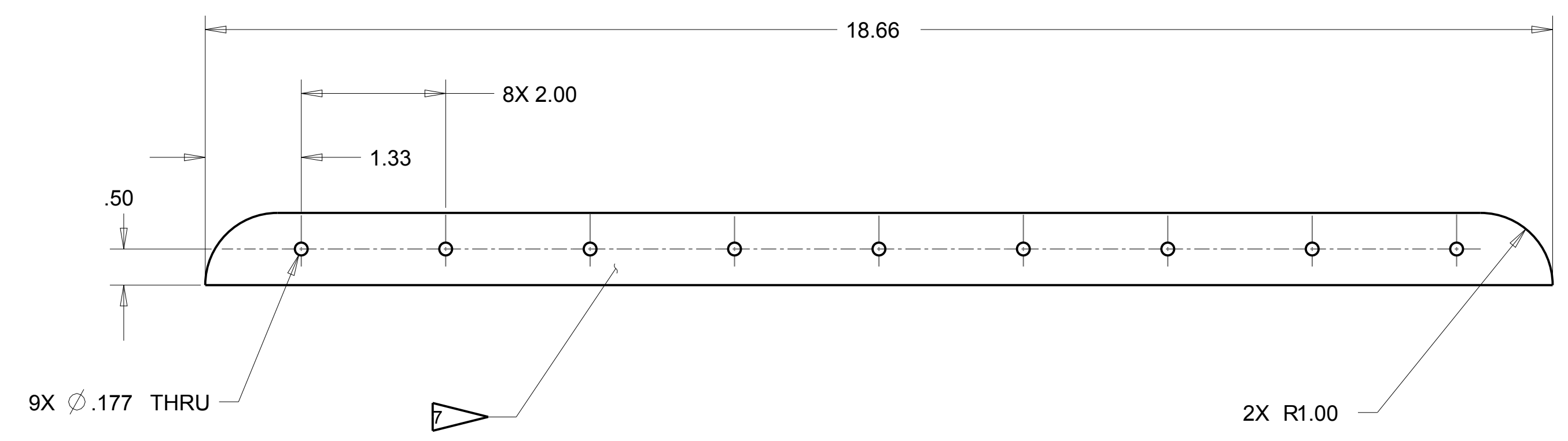
3

NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. SURFACE FINISH \sqrt{R} BETTER.
 5. MATERIAL: 304 STAINLESS STEEL PER ASTM-A276, 1.00" X .125" STOCK FLAT BAR.
 6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
-  IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



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-	-	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES $\pm .5^\circ$ - 3 PLACE DECIMALS $\pm .005$ - 2 PLACE DECIMALS $\pm .01$	CONTRACT NO	U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898		
-	-		W31P4Q-05-C-0136	TITLE BRACKET 1, TOP FLANGE SEAL		
-	-		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA			
-	-		THIRD ANGLE PROJECTION	STRESS	XXX	
-	-		1032328	CHECKER	JIM SEAQUIST	
-	-		AGPU	MANAGER	SUE O'BRIEN	
NEXT ASSY USED ON		APPLICATION	SIZE	CAGE CODE	DWG NO	REV
			D	81996	1032341	X
DRAWING RESTRICTIONS			SCALE	0.650	WEIGHT	- LBS
FOR OFFICIAL USE ONLY			SHEET	1	OF	1

DRAWING RESTRICTIONS
FOR OFFICIAL USE ONLY

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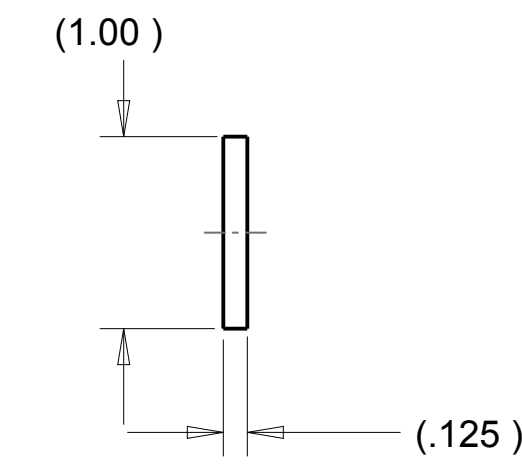
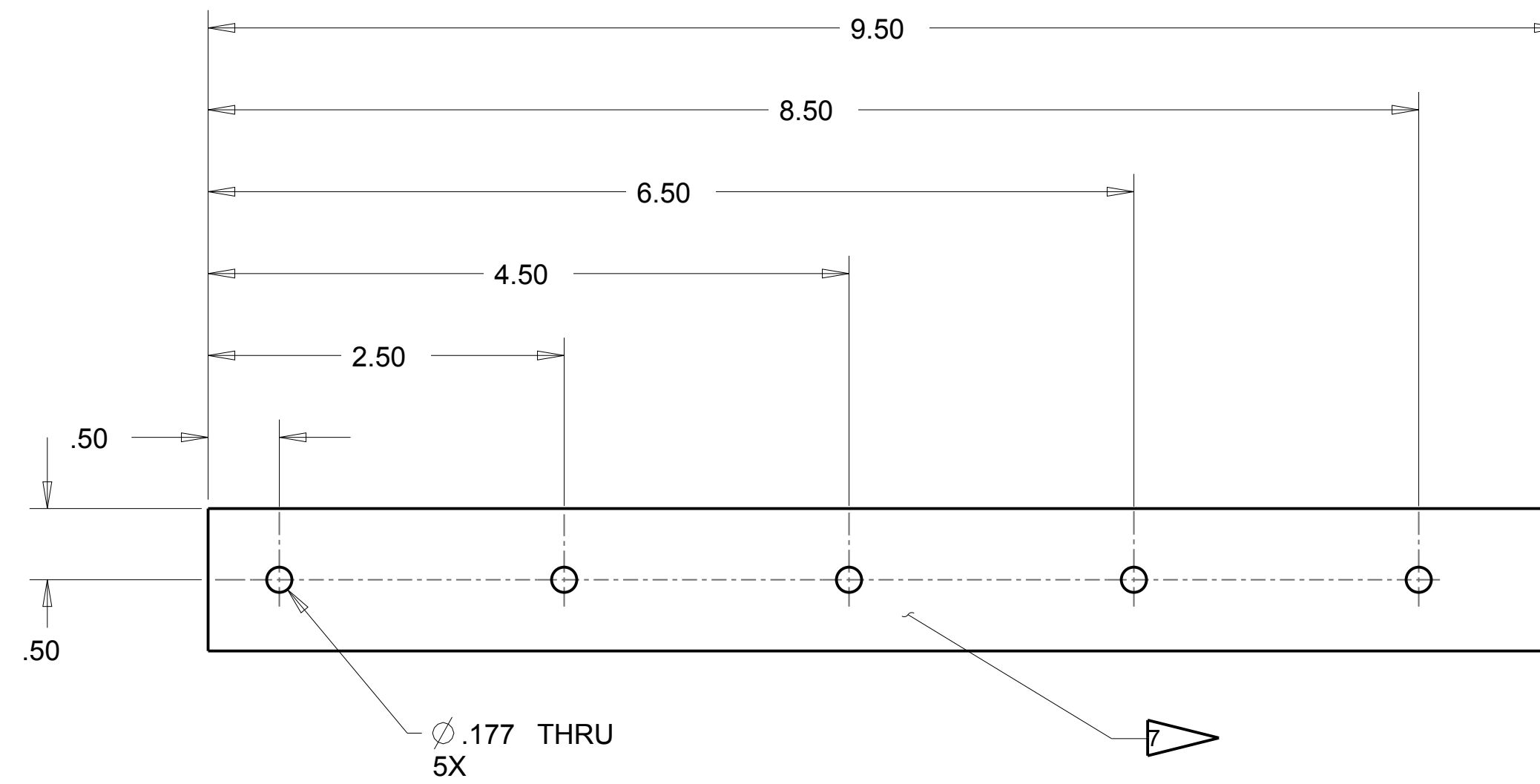
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NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. SOME HIDDEN LINES REMOVED FOR CLARITY.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
4. SURFACE FINISH 0.8 BETTER.
5. MATERIAL: 304 STAINLESS STEEL PER ASTM-A276, 1.00" X .125" STOCK FLAT BAR.
6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
7. IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

-	-	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES $\pm .5^\circ$ - 3 PLACE DECIMALS $\pm .005$ - 2 PLACE DECIMALS $\pm .01$	CONTRACT NO	U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898		
-	-		W31P4Q-05-C-0136	TITLE		
-	-		THIRD ANGLE PROJECTION	BRACKET 2, TOP FLANGE SEAL		
-	-		1032328	STRESS	XXX	
-	-		AGPU	CHECKER	JIM SEAQUIST	
-	-		USED ON	MANAGER	SUE O'BRIEN	
DRAWING RESTRICTIONS			SIZE	CAGE CODE	DWG NO	REV
FOR OFFICIAL USE ONLY			D	81996	1032342	X
APPLICATION		SCALE	1.000	WEIGHT	- LBS	SHEET 1 OF 1

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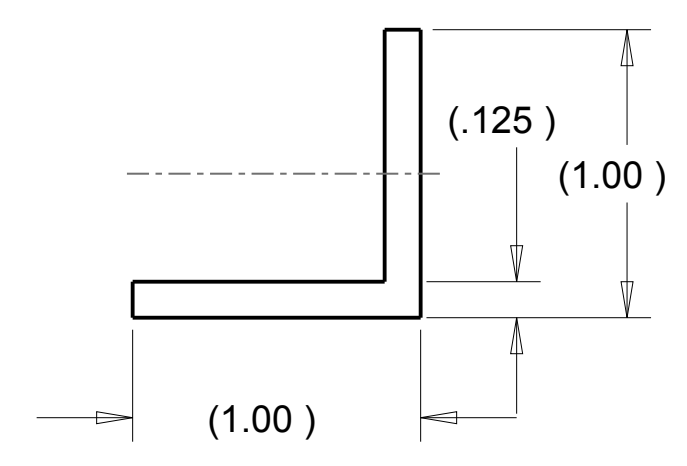
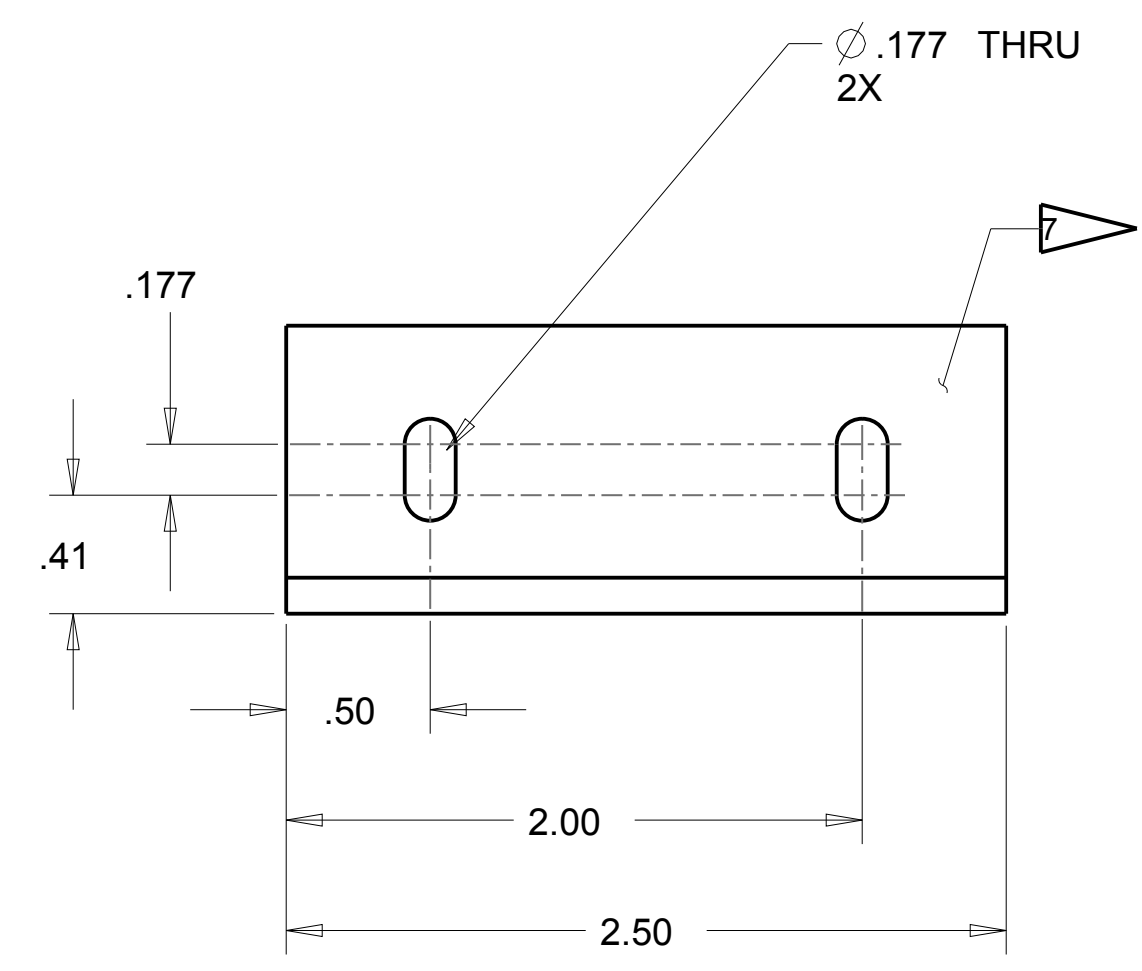
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. SURFACE FINISH OR BETTER.
 5. MATERIAL: 304 STAINLESS STEEL PER ASTM-A276, 1.00" X 1.00" X .125" STOCK ANGLE.
 6. PASSIVATE IN ACCORDANCE WITH ASTM A-380.
- IDENTIFY BY PART NUMBER PER MIL-STD-130 USING 1/8" BLACK LETTERS.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE BRACKET, INSULATION FLANGE	
1032328 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		STRESS XXX	
NEXT ASSY USED ON		MANAGER SUE O'BRIEN		SCALE 1.500 WEIGHT - LBS SHEET 1 OF 1	
APPLICATION		SIZE D		CAGE CODE 81996	
		DWG NO 1032343		REV X	

DRAWING RESTRICTIONS
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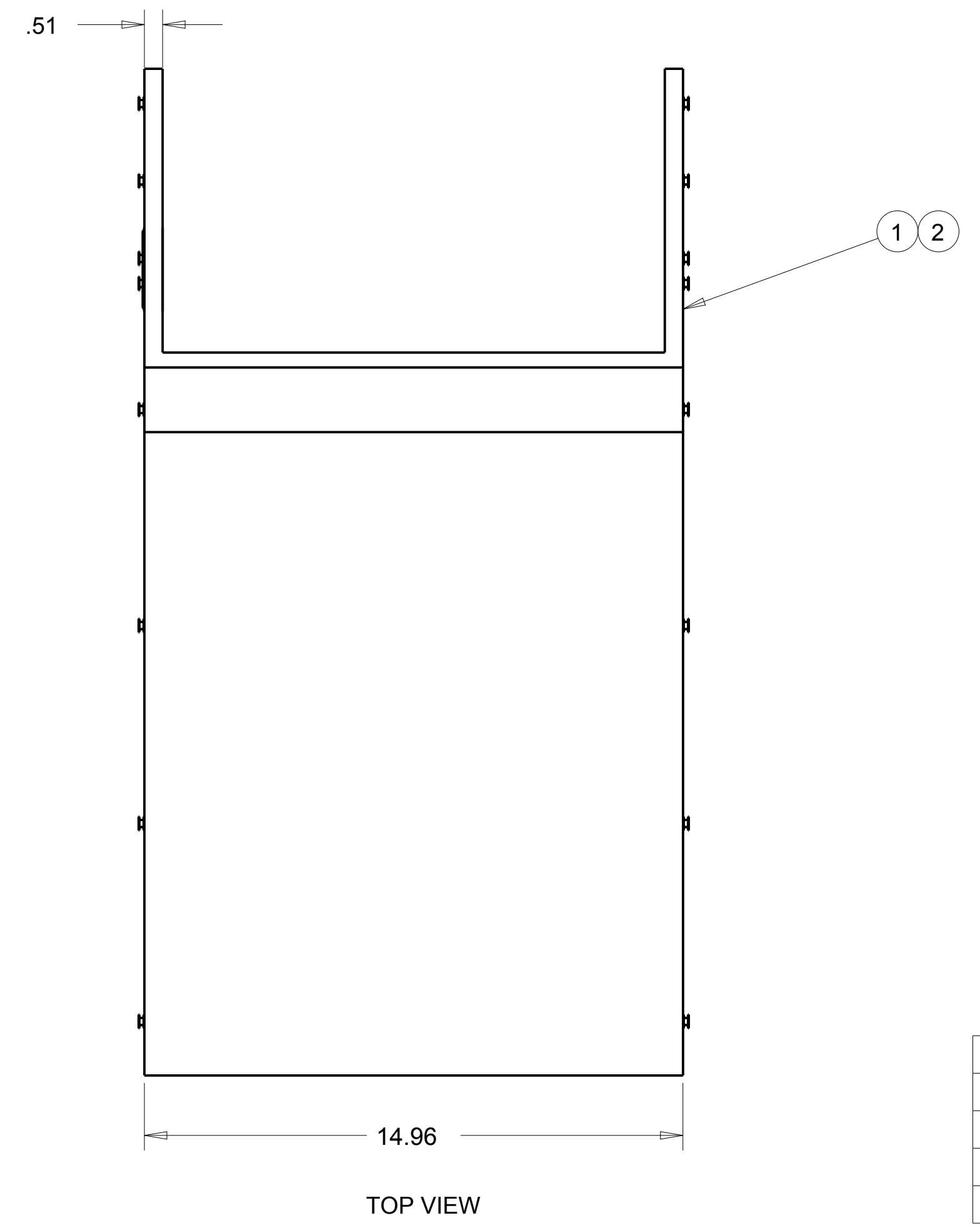
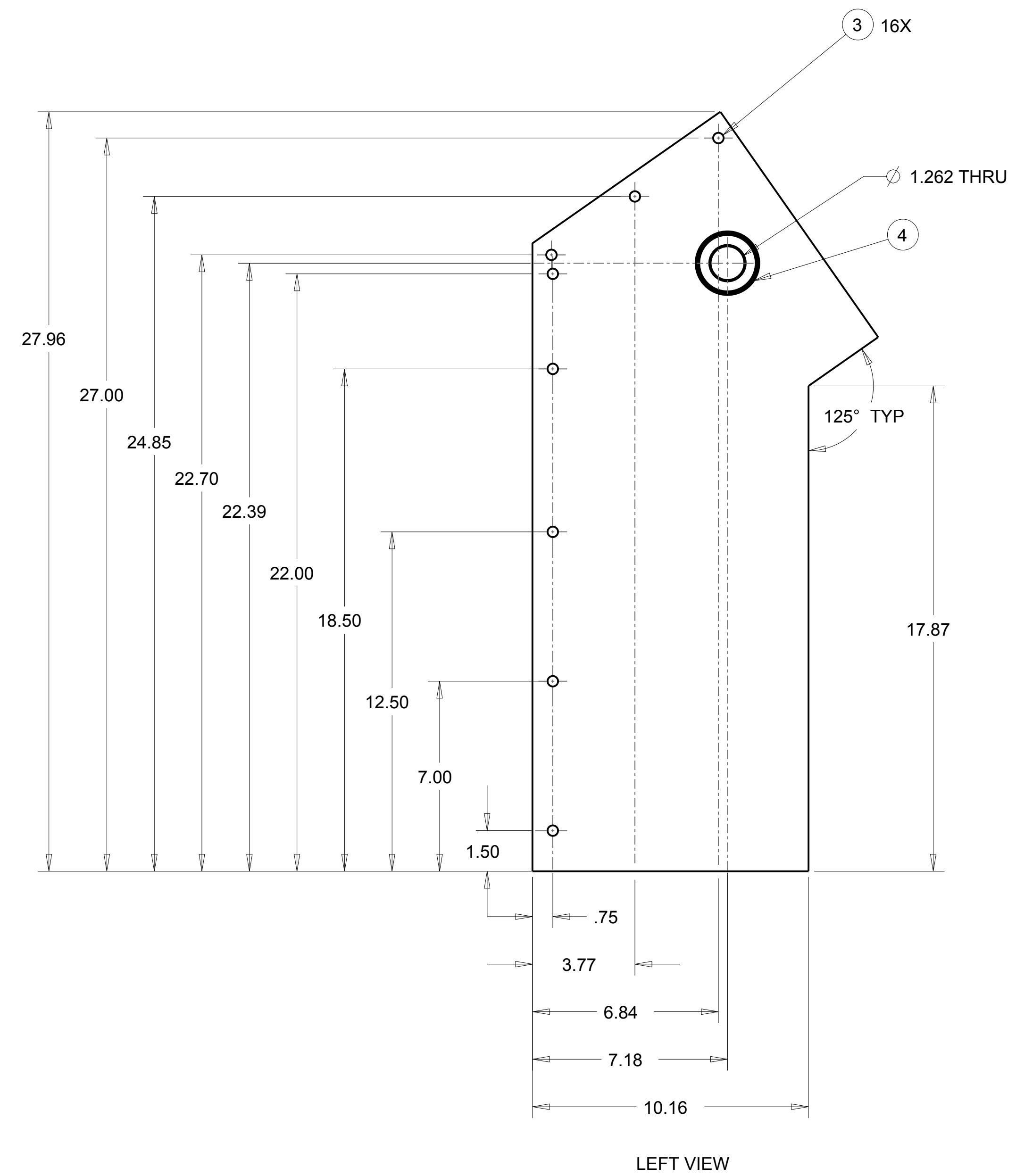
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- NOTES:
1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
 2. SOME HIDDEN LINES REMOVED FOR CLARITY.
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
 4. MATERIAL: 321 STAINLESS STEEL EMBOSSED FOIL, 0.002" THICK PER ASTM-A240
KAOWOOL #8, 8 LB/CU FT, CERAMIC FIBER BLANKET PER MIL-I-23128B.
 5. THERE SHALL BE NO EXPOSED INSULATION.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
4	0X832	SS-GR8	1	SS GROMMET 1.25"	-
3	0X832	SS-321-DS	16	CAPSTAN RIVET	-
2	81996	1032345-2	1	SS 321 FOIL 0.002" THICK	ASTM - A240
1	81996	1032345-1	1	KAOWOOL #8 BLANKET, 1	MIL-I-23138B

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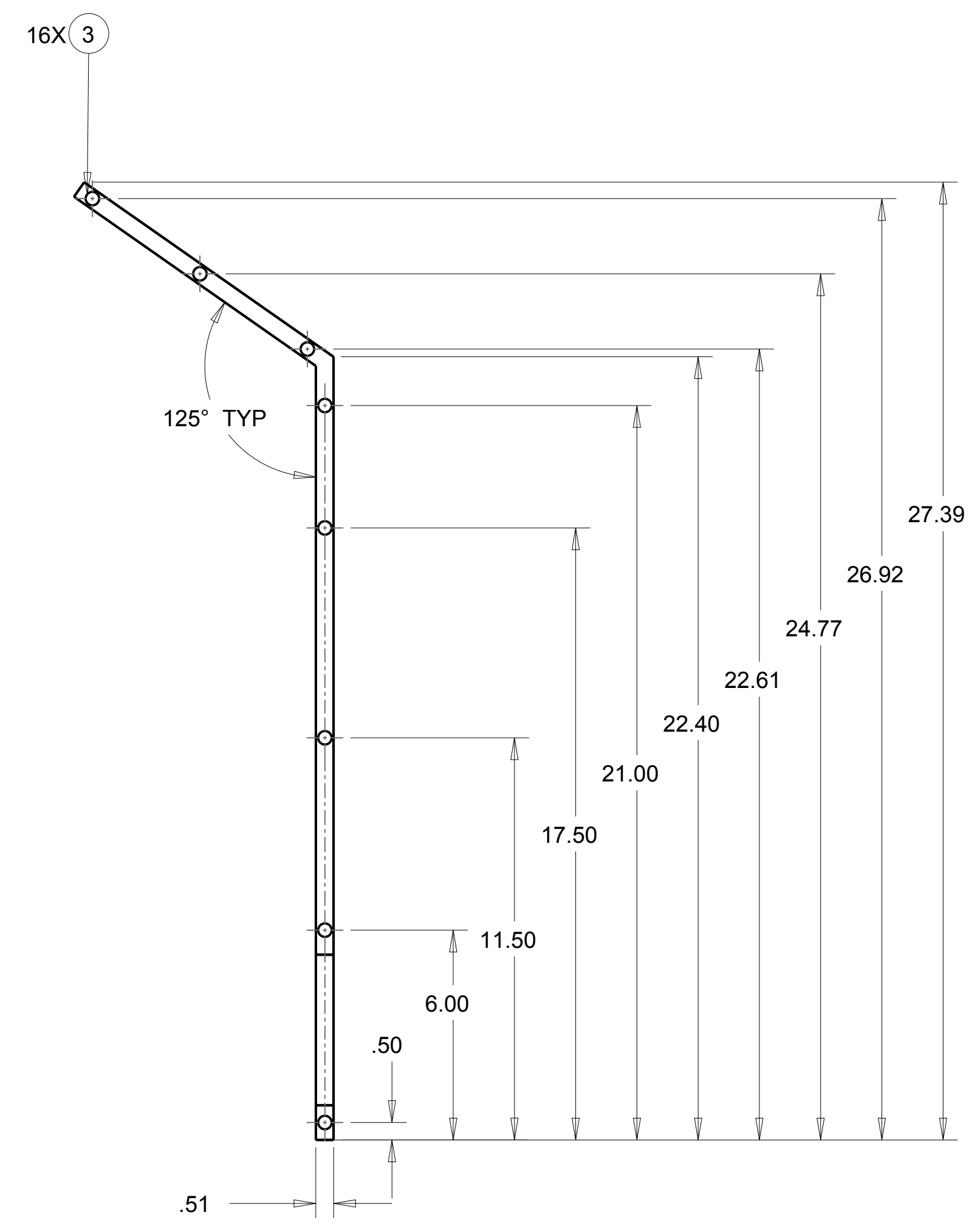
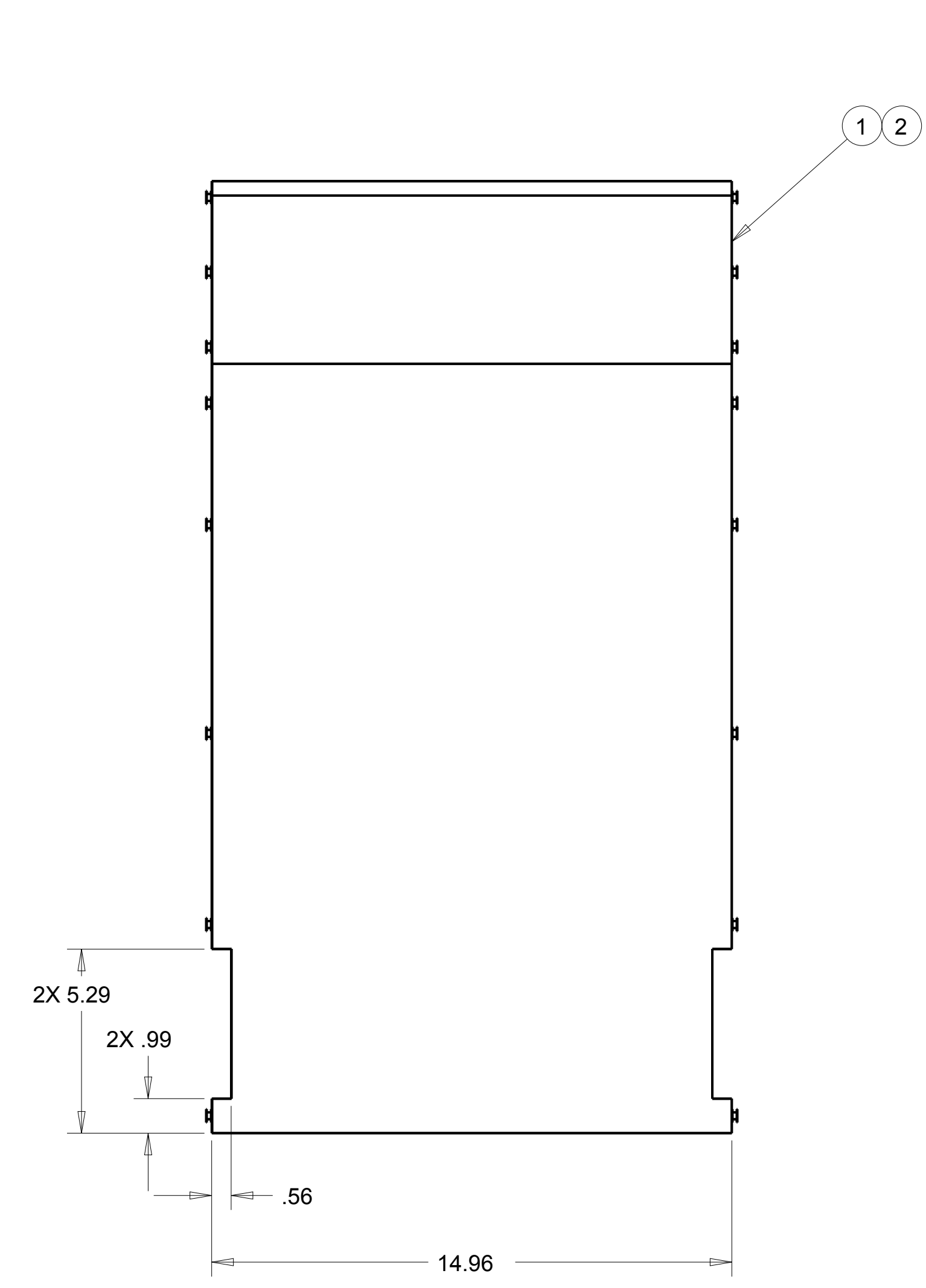
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01		CONTRACT NO W31P4Q-05-C-0136		U.S. ARMY AVIATION AND MISSILE COMMAND REDSTONE ARSENAL, ALABAMA 35898	
THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE INSULATION ASSEMBLY, LEFT SIDE, EJECTOR	
1032328 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		SIZE D	
NEXT ASSY USED ON		SCALE 0.300		CAGE CODE 81996	
APPLICATION		WEIGHT - LBS		DWG NO 1032345	
		SHEET 1 OF 1		REV X	

NOTES:

1. ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5-2009.
2. SOME HIDDEN LINES REMOVED FOR CLARITY.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES.
4. MATERIAL: 321 STAINLESS STEEL EMBOSSED FOIL, 0.002" THICK PER ASTM-A240
KAOWOOL #8, 8 LB/CU FT, CERAMIC FIBER BLANKET PER MIL-I-23128B.
5. THERE SHALL BE NO EXPOSED INSULATION.

REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



INDEX	CAGE CODE	PART NUMBER	QTY	NOMENCLATURE	SPECIFICATION
3	0X832	SS-321-DS	16	CAPSTAN RIVET	-
2	81996	1032346-2	1	SS 321 FOIL 0.002" THICK	ASTM - A240
1	81996	1032346-1	1	KAOWOOL #8 BLANKET, 2	MIL-I-23138B

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THIRD ANGLE PROJECTION		DRAFTER BOGDAN GHITA ENGINEER BOGDAN GHITA		TITLE INSULATION ASSEMBLY, RIGHT SIDE, EJECTOR	
1032328 AGPU		CHECKER JIM SEAQUIST MANAGER SUE O'BRIEN		SIZE D	
NEXT ASSY USED ON		SCALE 0.300		CAGE CODE 81996	
APPLICATION		WEIGHT - LBS		DWG NO 1032346	
		SHEET 1 OF 1		REV X	

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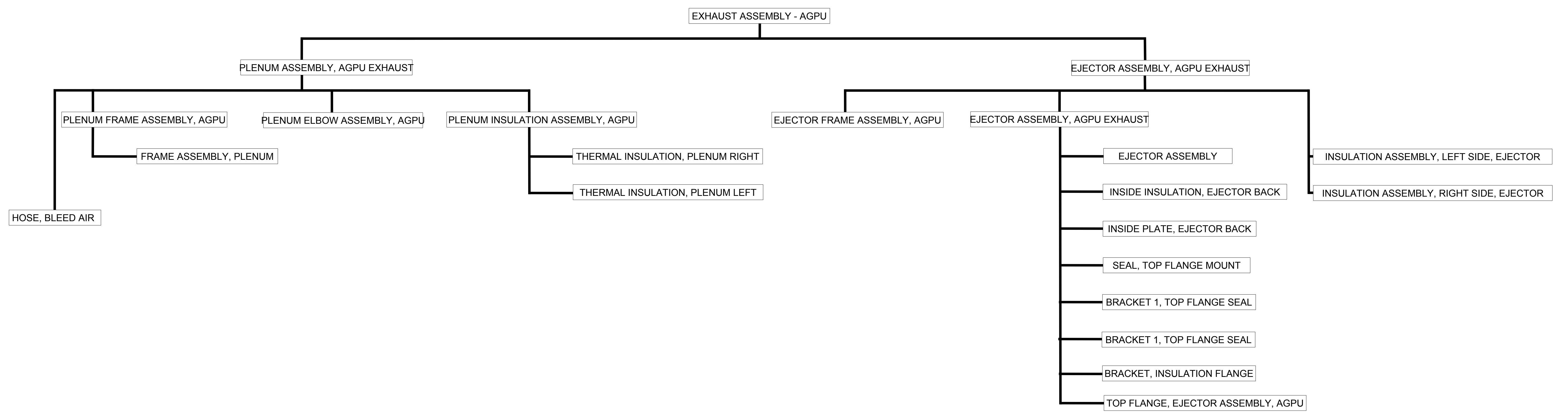
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REV STATUS	
REV	SH
-	ALL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL RELEASE	MM-DD-YYYY	-



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-	-	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS FOLLOWS. - ANGLES ± .5° - 3 PLACE DECIMALS ± .005 - 2 PLACE DECIMALS ± .01
-	-	
-	-	
-	-	
-	-	
-	-	
-	-	
THIRD ANGLE PROJECTION		
NEXT ASSY	USED ON	
APPLICATION		

CONTRACT NO		W31P4Q-05-C-0136	
DRAFTER		BOGDAN GHITA	
ENGINEER		BOGDAN GHITA	
STRESS		XXX	
CHECKER		JIM SEAQUIST	
MANAGER		SUE O'BRIEN	
SIZE	CAGE CODE	DWG NO	REV
D	81996	1032817	X
SCALE	3.000	WEIGHT	- LBS
SHEET	1	OF	1

U.S. ARMY
AVIATION AND MISSILE COMMAND
REDSTONE ARSENAL, ALABAMA 35898

TITLE
EXHAUST DRAWING TREE - AGPU

D

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