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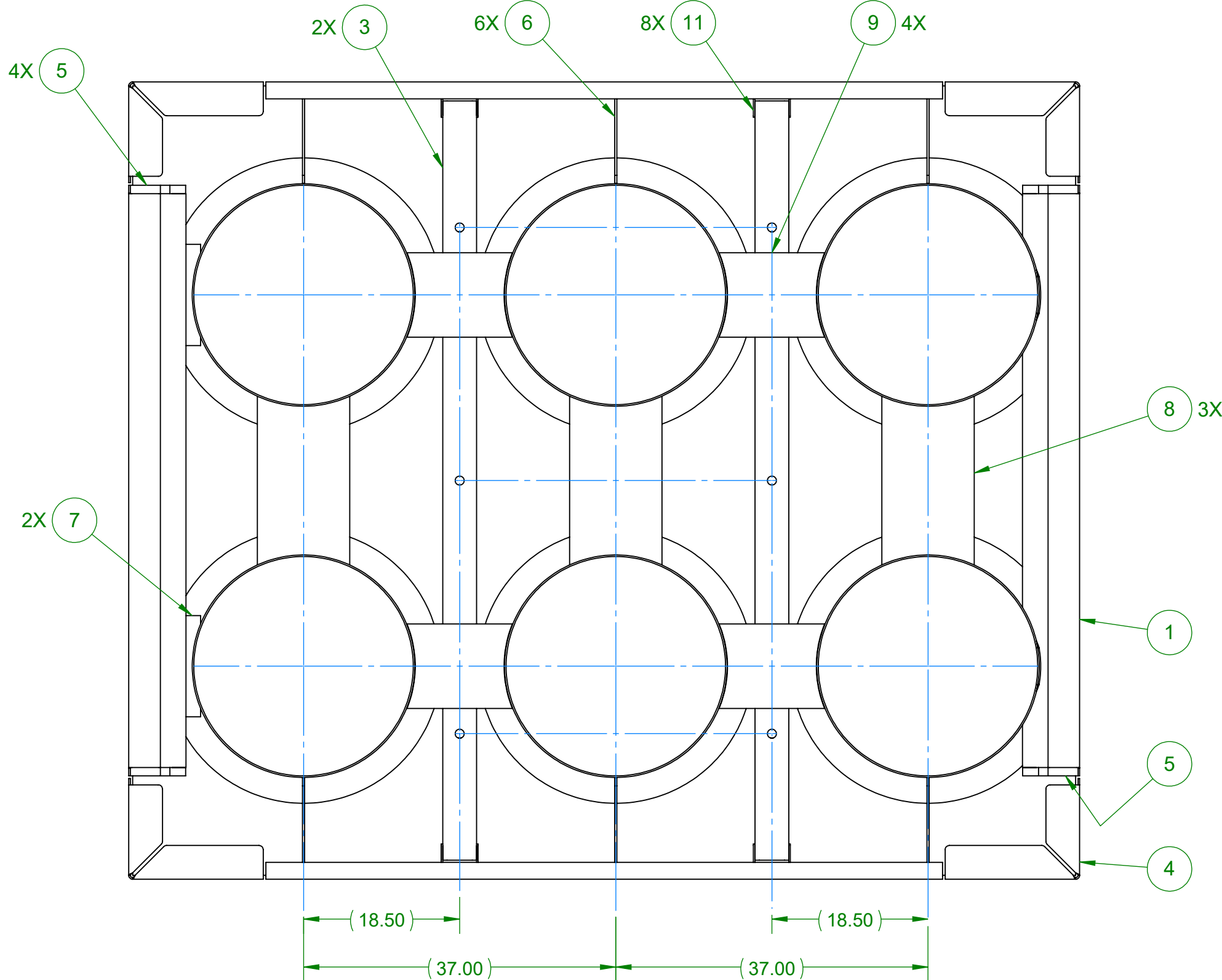
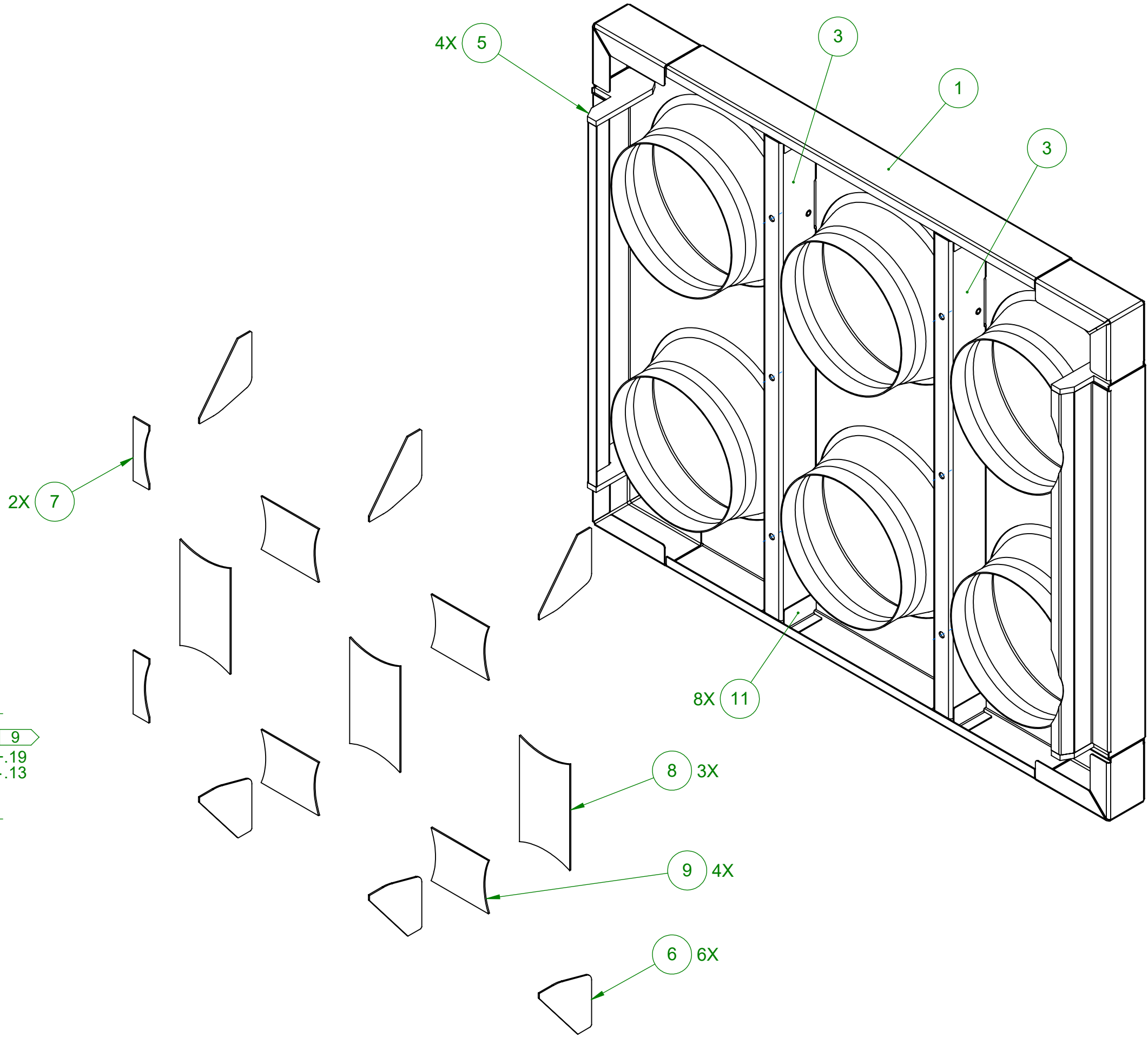
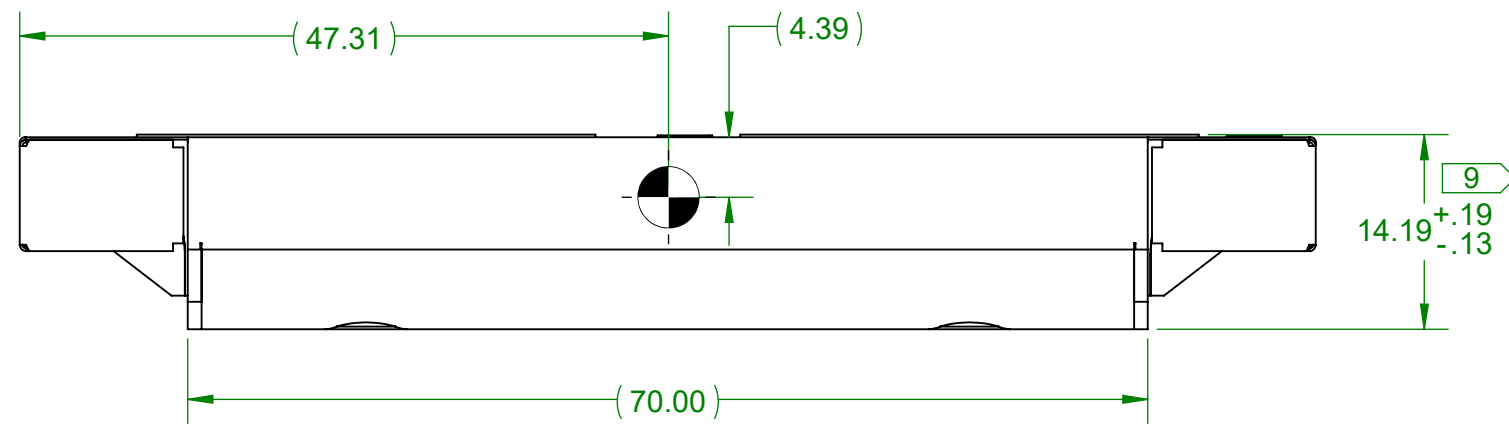
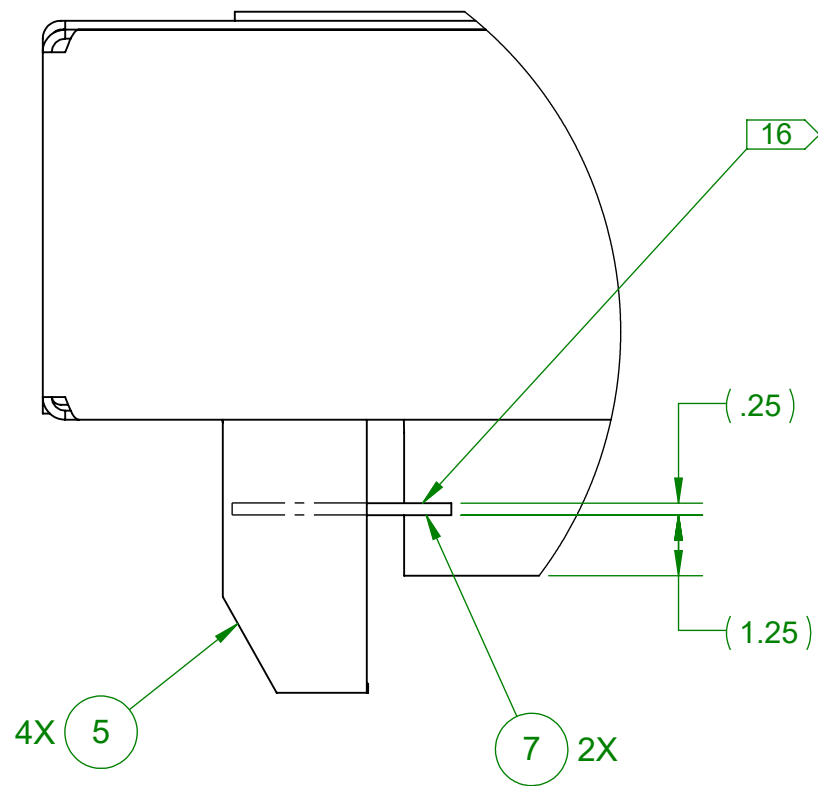
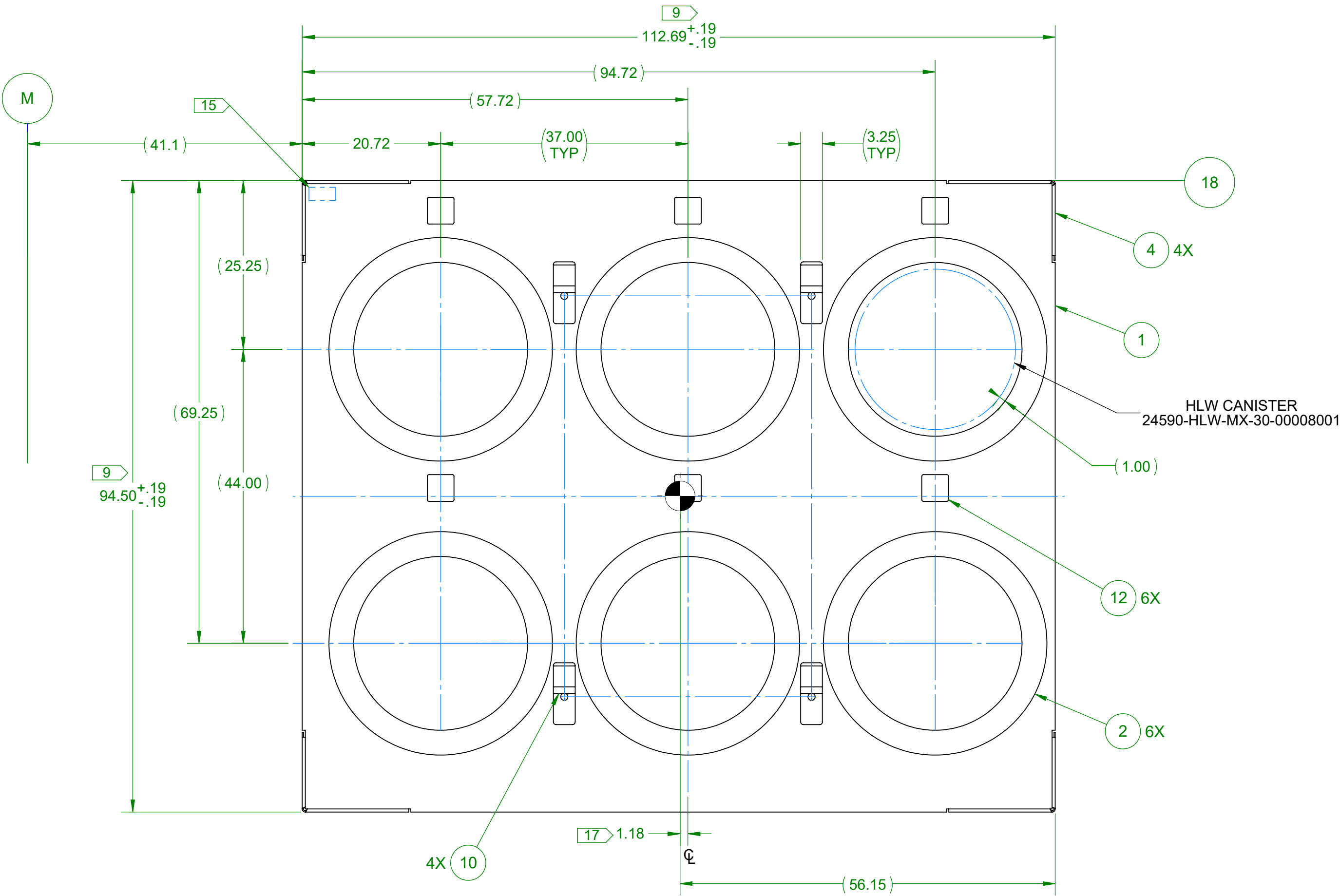
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NOTES:

1. FOR NOTES, DRAWING INDEX, REFERENCE DRAWINGS AND PART/MATERIAL LISTS, SEE 24590-HLW-M0-HEH-00037001.



Originator
By: Jason Hayes - jhayes
Eng Name: Mechanical Handling
Revised: Feb 26, 2025

Checked
By: Jason Devincintis - ddevincintis
Eng Name: Mechanical Handling
Revised: Feb 26, 2025

Reviewed
No Comments
By: Jason Schaeffer - jschaeff2
Eng Name: WTP Special Handling
Revised: Feb 26, 2025

Approved
By: Jason Schaeffer - jschaeff2
Eng Name: WTP Special Handling
Revised: Mar 11, 2025

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES UNLESS SPECIFIED
NO TOLERANCES ARE APPLIED
TO DIMENSIONS UNLESS NOTED

WEIGHT 1476.5 LBS
SUPPLIER DWG NO.

ISSUED BY
RPP-WTP PDC

ISSUE STAMP

ORIGINATOR	J. HAYES	2/26/2025
CHECKER	D. DEVINCENTIS	2/26/2025
REVIEWER	K. DRAPER	2/26/2025
APPROVER	J. SCHAEFFER	3/11/2025

CONTENT APPLICABLE TO ALARA? ☒ YES ☐ NO
ADR NO. N/A REV: N/A

CM	0	ISSUED FOR PROCUREMENT	JJH	DSD	KDD	JES	3/11/2025
	REV	DESCRIPTION	ORG	CHKD	RVWD	APVD	DATE

REVISION HISTORY

PROJECT No.	24590
SITE	HANFORD
AREA	200E
BUILDING No.	30 (HLW)

BY: J. HAYES DATE: 2/26/2025

CONTRACT No.: DE-AC27-01RV14136 WTP SUBCONTRACT No.:

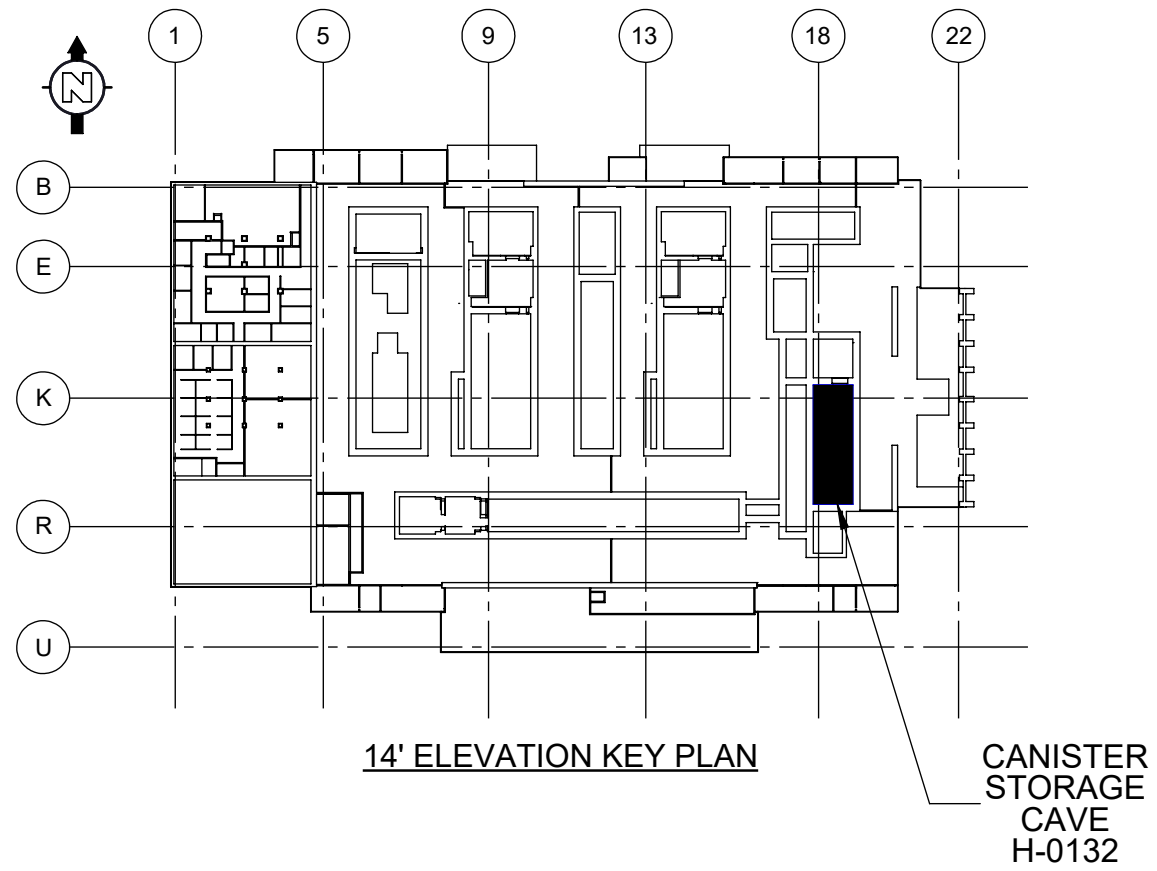
BECHTEL RIVER PROTECTION PROJECT
WASTE TREATMENT PLANT
450 HILLS STREET
RICHLAND, WA 99354

**HLW VITRIFICATION SYSTEM HEH
DESIGN PROPOSAL DRAWING
ASYMMETRICAL CANISTER GUIDE
ASSEMBLY 2X3**

SCALE: 1:14	24590-HLW-M0-HEH-00037002	REV 0
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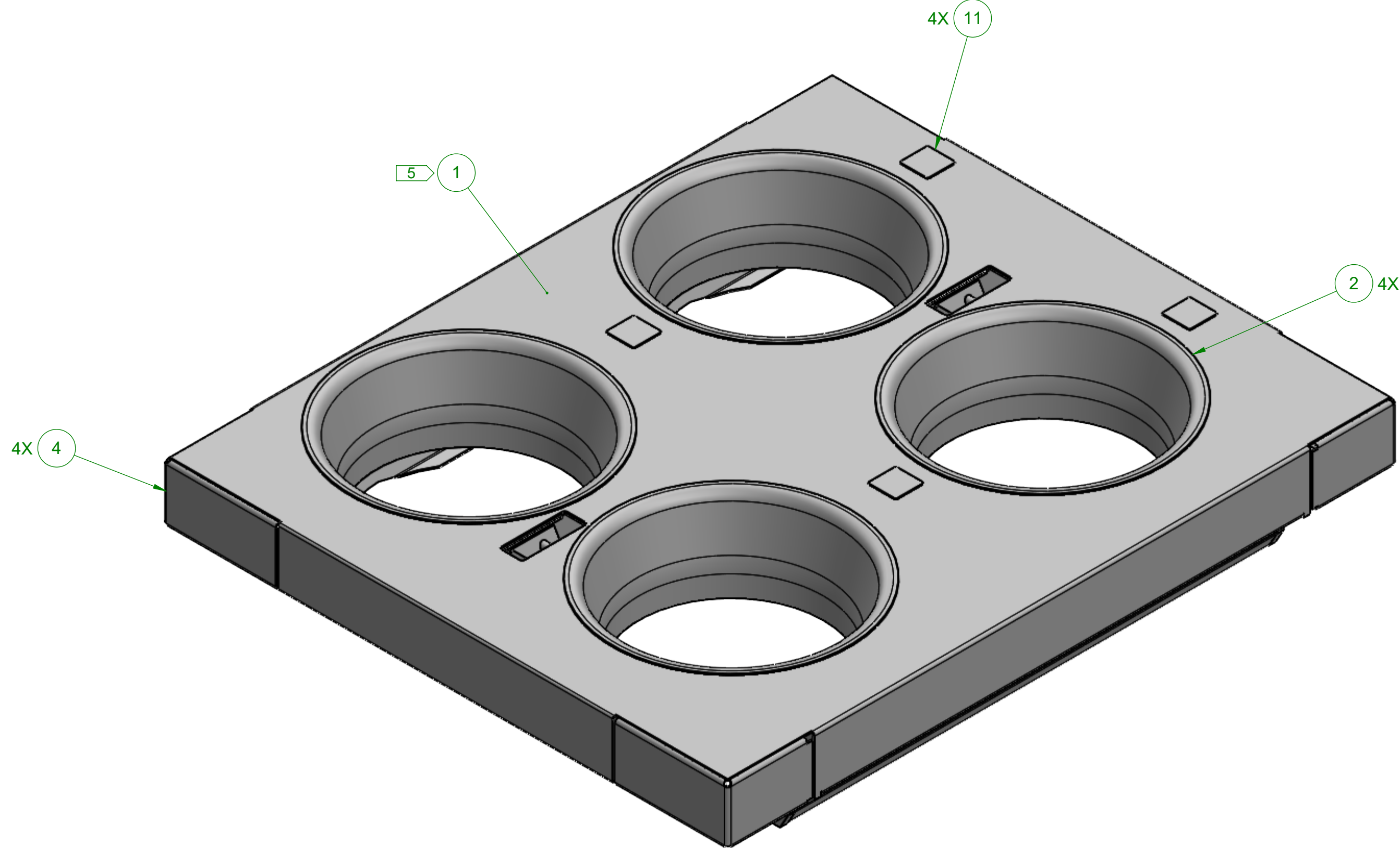
BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	DOCUMENT NUMBER	MATERIAL	WEIGHT (LBS)
1	1	CANISTER STORAGE RACK ASSYMETRICAL 2X2 TOP PLATE		AISI 304L	412.6
2	4	CANISTER STORAGE RACK GUIDE LEAD-IN	24590-QL-POA-SY00-00003-06-00306	AISI 304L	62.8
3	1	CANISTER STORAGE RACK GUIDE LIFTING RIB	24590-QL-POA-SY00-00003-06-00261	AISI 304L	138.7
4	4	CANISTER STORAGE RACK GUIDE CORNER INSERT	24590-QL-POA-SY00-00003-06-00312	AISI 304L	20.8
5	4	CANISTER STORAGE RACK GUIDE BUMP PLATE	24590-QL-POA-SY00-00003-06-00313	AISI 304L	19.2
6	4	CANISTER STORAGE RACK LEAD-IN GUSSET 1	24590-QL-POA-SY00-00003-06-00456	AISI 304/304L	5.7
7	2	CANISTER STORAGE RACK LEAD-IN GUSSET 3	24590-QL-POA-SY00-00003-06-00458	AISI 304/304L	14.5
8	2	CANISTER STORAGE RACK LEAD-IN GUSSET 4	24590-QL-POA-SY00-00003-06-00459	AISI 304/304L	8.1
9	2	CANISTER STORAGE RACK GUIDE LIFTING PIN	24590-QL-POA-SY00-00003-06-00315	AISI 304L	0.9
10	4	CANISTER STORAGE RACK JOINT PLATE	24590-QL-POA-SY00-00003-06-00314	AISI 304L	2.0
11	4	CANISTER STORAGE RACK POSITION TAG	24590-QL-POA-SY00-00003-06-00304	AISI 304L	0.6
12	2	CANISTER STORAGE RACK LIFTING HOOK LEAD IN LEFT		AISI 304L	4.3
13	2	CANISTER STORAGE RACK LIFTING HOOK LEAD IN RIGHT		AISI 304L	4.3
14	2	CANISTER STORAGE RACK 2X2 LEAD IN GUSSET		AISI 304L	7.0
15	1	CANISTER STORAGE RACK 2X2 COUNTER WEIGHT		AISI 304L	42.3



NOTES:

- THIS DRAWING PROVIDES BASIC OUTLINES, DESIGN OBJECTIVES AND BOUNDING DIMENSIONS TO CONTRACTED DESIGN OR FABRICATION SUPPLIER(S) AND SHALL NOT BE USED TO CONFIRM THE AS BUILT WTP STRUCTURE, SYSTEM OR COMPONENT IDENTIFIED HEREIN. SEE SELLER INFORMATION FOR FINAL CONFIGURATION PROVIDED IN CONFORMANCE TO PURCHASE ORDER.
- SELECTION OF COMPONENTS ON THIS DRAWING IS A PROPOSAL ONLY. THE SELLER SHALL BE RESPONSIBLE FOR FULL VALIDATION OF THE COMPONENTS SELECTED FOR THE CONTRACTED APPLICATION, WHETHER IDENTICAL TO THE BUYER PROPOSAL OR OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENGINEERING SPECIFICATION PROVIDED IN PURCHASE ORDER.
- THE CONTENTS OF THIS DRAWING IS WASTE ACCEPTANCE IMPACTING PASSIVE (WAI-PASSIVE). REFER TO 24590-HLW-RPT-PR-01-001 AND 24590-HLW-WIQP-MH-09-0002.
- ITEM 1 SHALL BE OF SIMILAR DESIGN AS 24590-QL-POA-SY00-00003-06-00273. HOWEVER, IN AN ASYMMERTIC 2X2 CONFIGURATION INSTEAD.
- REFER TO 24590-QL-POA-SY00-00003-06-00403 FOR LIFTING HOOK INTERFACE WITH LIFTING BEAM 24590-HLW-MJ-HPH-LIFT-00002.
- THE EQUIPMENT, AS DESIGNED, IS INHERENTLY UNSTABLE WHEN LIFTED AT THE DESIGNATED LIFTING PINS (ITEM 9). SELLER SHALL IMPLEMENT AN APPROPRIATE METHOD, SUCH AS BLOCKS (ITEM 12 AND 13) ON EITHER SIDE OF ITEM 9 OR AN EQUIVALENT STABILIZATION TECHNIQUE, TO PREVENT ROTATION DURING LIFTING.
- REFER TO 24590-QL-POA-SY00-00003-06-00138 FOR UPPER STRUCTURAL BEAM C INTERFACE.
- REFER TO 24590-QL-POA-SY00-00003-06-00142 FOR GUIDE SUPPORT BEAM C INTERFACE.
- CRITICAL DIMENSION. SHALL REMAIN IN FINAL DESIGN.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.6.
- EQUIPMENT SHALL SATISFY 40 YEAR DESIGN LIFE.
- PART TO BE DEGREASED, CLEAN, AND FREE FROM LOOSE CONTAMINANT. CONDITION PART FOR SAFE HANDLING. NO SHARP EDGES PERMISSIBLE.
- SHALL BE CAPABLE OF VERTICAL LIFTING FROM THE SHORT SIDE USING 5-TON JIB CRANE 24590-HLW-MJ-HEH-CRN-00005. REFER TO 24590-CM-POA-MJKH-00002-01-00004 FOR HOIST. USE AN APPROPRIATE LIFTING METHOD TO AVOID DAMAGE DURING HANDLING.
- ALL DIMENSIONS, TOLERANCES, LIMITS OF SIZE, FORM, LOCATION, SYMBOLS AND RELATED TERMINOLOGY SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5.
- LOCATE PERMANENT MARK COMPONENT IN ACCORDANCE WITH CONTRACT REQUIREMENTS IN APPROXIMATE LOCATION SHOWN.
- ITEMS 7 AND 8 SHALL BE ALIGNED ON THE SAME HORIZONTAL PLANE AS SHOWN ON ITEM 14.
- OFFSET CENTER OF MASS.



DRAWING INDEX	
DWG NO.	TITLE
24590-HLW-M0-HEH-00038001	HLW VIT SYS HEH DPD ASSYMETRICAL CANISTER GUIDE ASSEMBLY 2X2
24590-HLW-M0-HEH-00038002	HLW VIT SYS HEH DPD ASSYMETRICAL CANISTER GUIDE ASSEMBLY 2X2
REFERENCE DRAWINGS	
DWG NO.	TITLE
24590-HLW-P1-P01T-00003	GENERAL ARRANGEMENT PLAN AT EL 14'-0"
24590-HLW-MX-30-00008001	HLW VITRIFICATION CANISTER ASSEMBLY DRAWING
24590-QL-POA-SY00-00003-06-00403	PROJECT 458 HLW SYSTEM HPH RACK LIFTING BEAM - LIFTING HOOK
24590-HLW-P1-P23T-00216	HLW VITRIFICATION BUILDING EQUIPMENT LOCATION PLAN EL. 14'-0" / AREA 216
24590-QL-POA-SY00-00003-06-00273	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - CANISTER GUIDE PLATE
24590-CM-POA-MJKH-00002-01-00004	5 TON WALL MOUNTED CANTILEVERED JIB CRANE #2856 GENERAL ARRANGEMENT
24590-HLW-WIQP-MH-09-0002	HLW CANISTER RACKS
24590-HLW-RPT-PR-01-001	WASTE ACCEPTANCE IMPACTING ITEMS AND ACTIVITIES
24590-QL-POA-SY00-00003-06-00138	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - UPPER STRUCTURAL BEAM C
24590-QL-POA-SY00-00003-06-00142	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - GUIDE SUPPORT BEAM C
24590-QL-POA-SY00-00003-06-00306	PROJECT 458 HLW RACKS - STAINLESS STEEL LEAD-IN
24590-QL-POA-SY00-00003-06-00261	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - CANISTER GUIDE LIFTING RIB
24590-QL-POA-SY00-00003-06-00312	PROJECT 458 HLW RACKS - CORNER INSERT
24590-QL-POA-SY00-00003-06-00313	PROJECT 458 HLW RACKS - CANISTER GUIDE BUMP PLATE
24590-QL-POA-SY00-00003-06-00456	HLW SYSTEM HEH CANISTER STORAGE RACK - STORAGE RACK 6-PACK LEAD IN GUSSET
24590-QL-POA-SY00-00003-06-00458	HLW SYSTEM HEH CANISTER STORAGE RACK - STORAGE RACK 6-PACK LEAD IN GUSSET
24590-QL-POA-SY00-00003-06-00459	HLW SYSTEM HEH CANISTER STORAGE RACK - STORAGE RACK 6-PACK LEAD IN GUSSET
24590-QL-POA-SY00-00003-06-00315	PROJECT 458 HLW RACKS - CANISTER GUIDE LIFTING PIN
24590-QL-POA-SY00-00003-06-00314	PROJECT 458 HLW RACKS - JOINT PLATE
24590-QL-POA-SY00-00003-06-00304	PROJECT 458 HLW RACKS - CANISTER POSITION TAG

CM	0	ISSUED FOR PROCUREMENT				JHH	DSD	KDD	JES	3/11/2025
	REV	DESCRIPTION				ORG	CHKD	RVWD	APVD	DATE
QUALITY DESIGNATOR										
PROJECT No.		24590		 RIVER PROTECTION PROJECT WASTE TREATMENT PLANT 450 HILLS STREET RICHLAND, WA 99354						
SITE		HANFORD								
AREA		200E								
BUILDING No.		30 (HLW)								
BY		DATE		CONTRACT No: DE-AC27-01RV14136 WTP SUBCONTRACT No:						
J. HAYES		2/26/2025		HLW VITRIFICATION SYSTEM HEH DESIGN PROPOSAL DRAWING ASYMMETRICAL CANISTER GUIDE ASSEMBLY 2X2						
D. DEVINCENTIS		2/26/2025								
K. DRAPER		2/26/2025								
J. SCHAEFFER		3/11/2025								
NO ALARA? ☒ YES ☐ NO REV: N/A				SCALE: 1:10		24590-HLW-M0-HEH-00038001				REV 0

LAST SAVED BY: jrhaves
FILE NAME: 24590-HLW-M0-HEH-00038
DATE: 2/26/2025 8:03:17 AM

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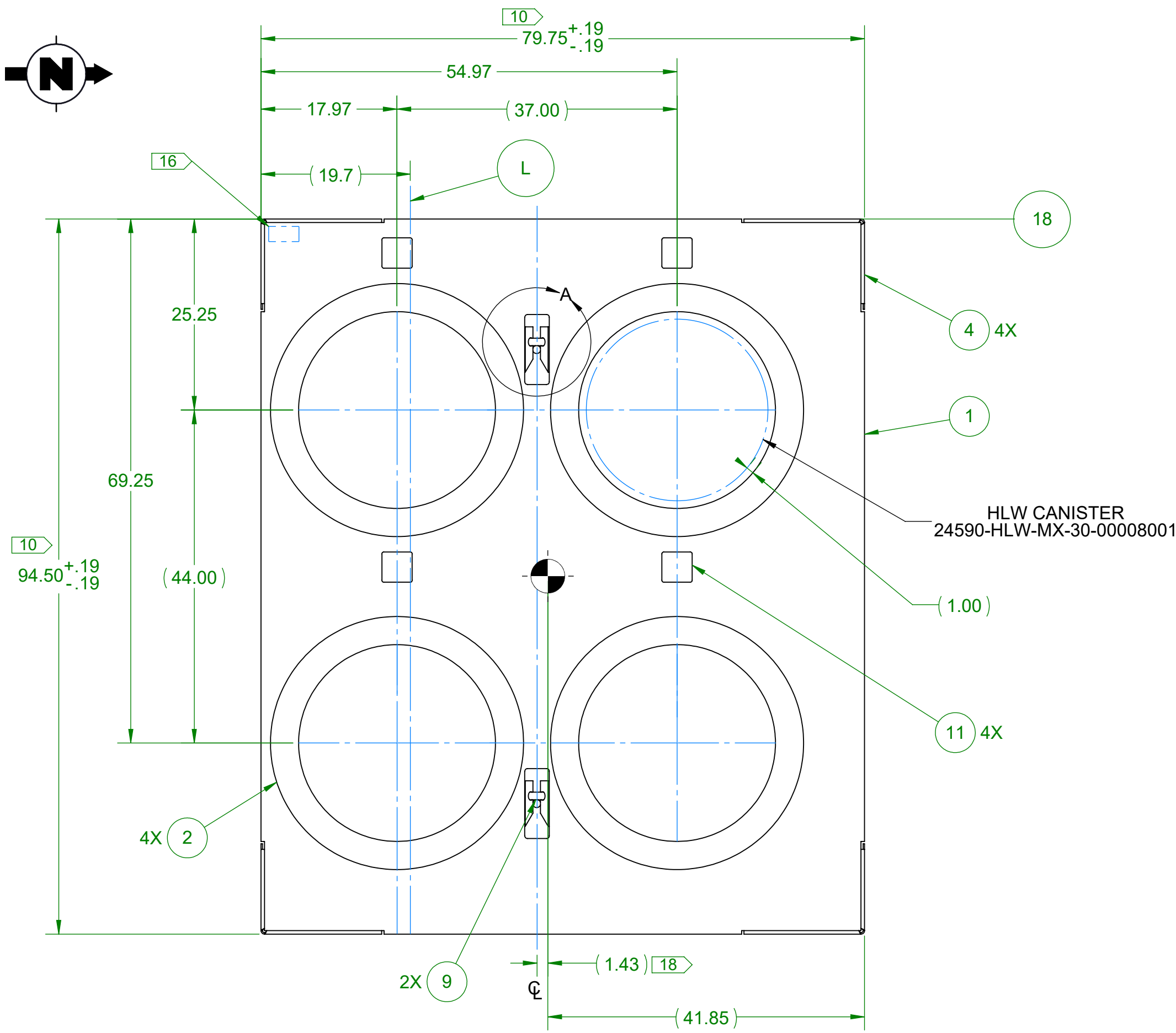
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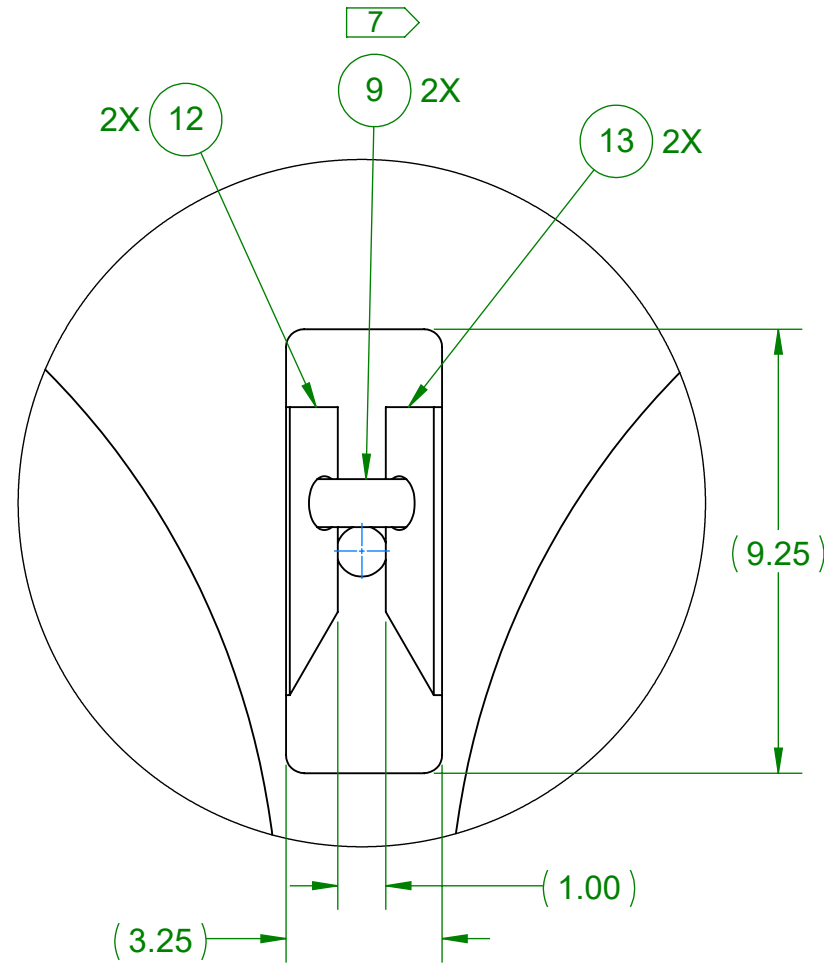
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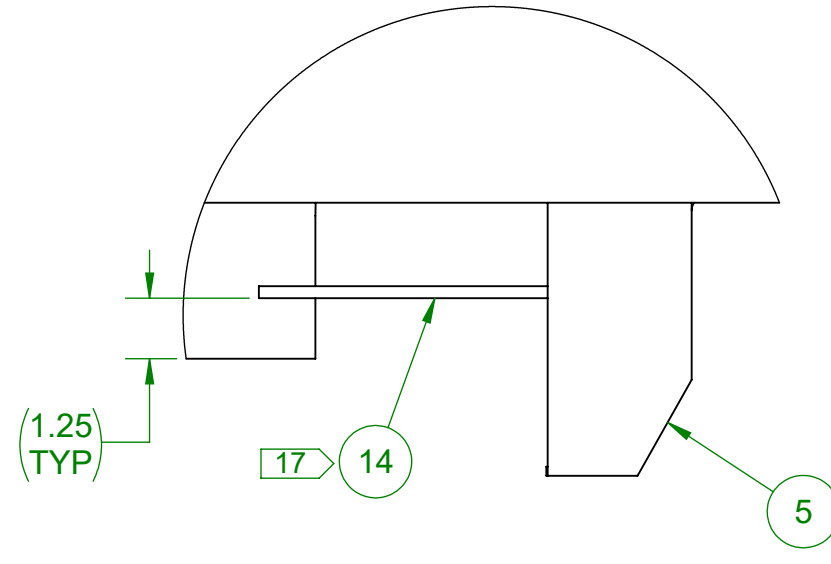
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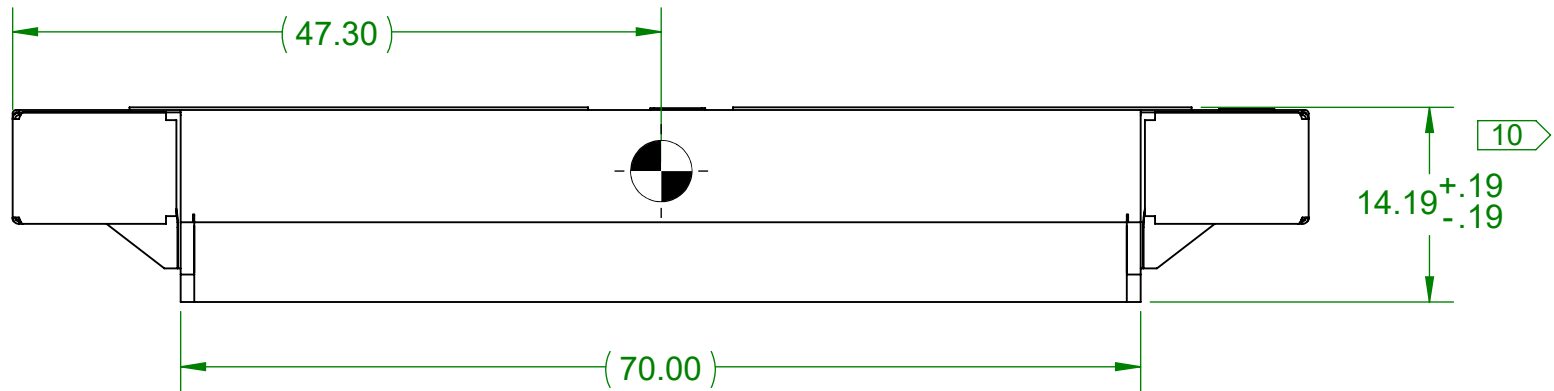
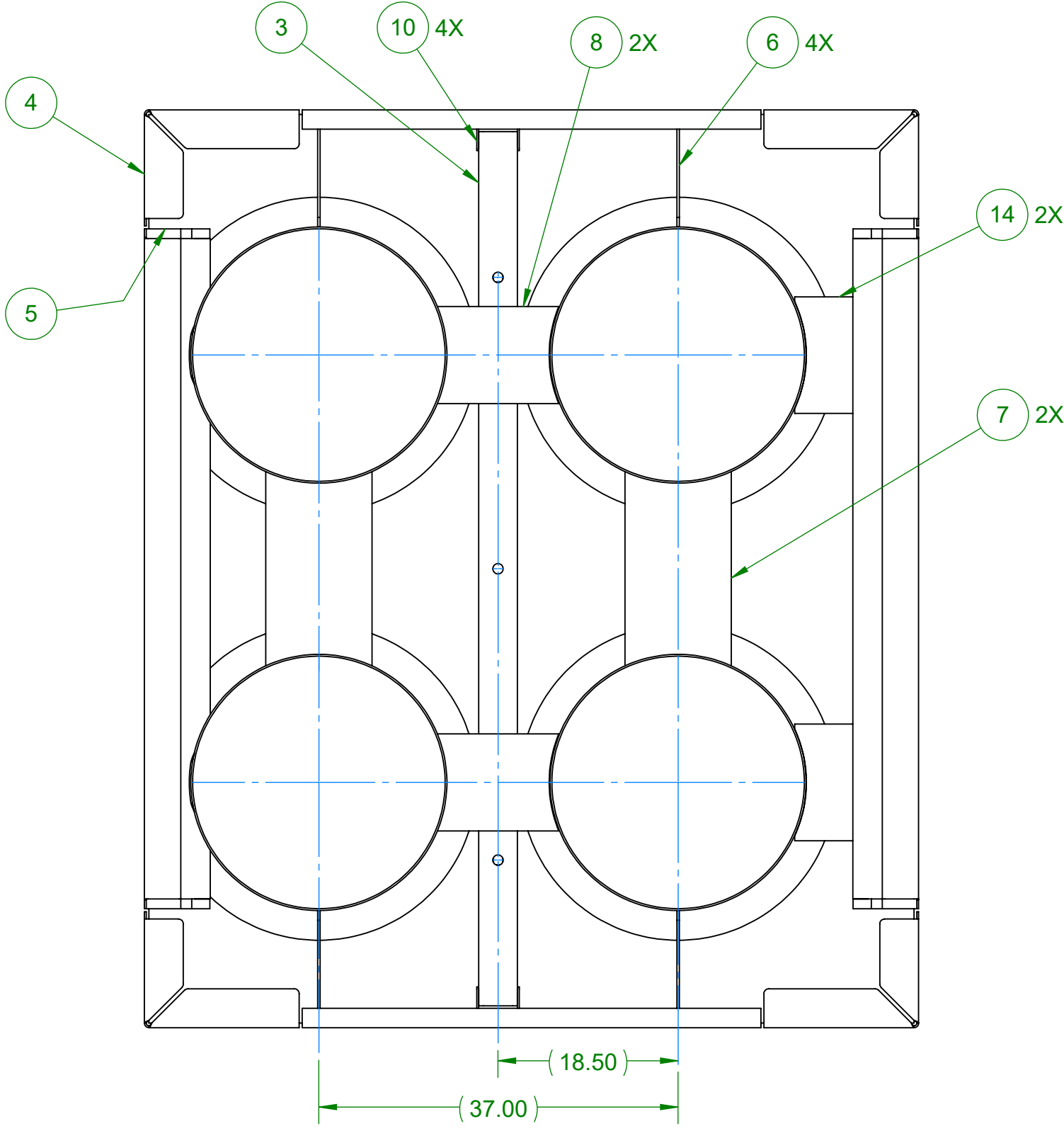
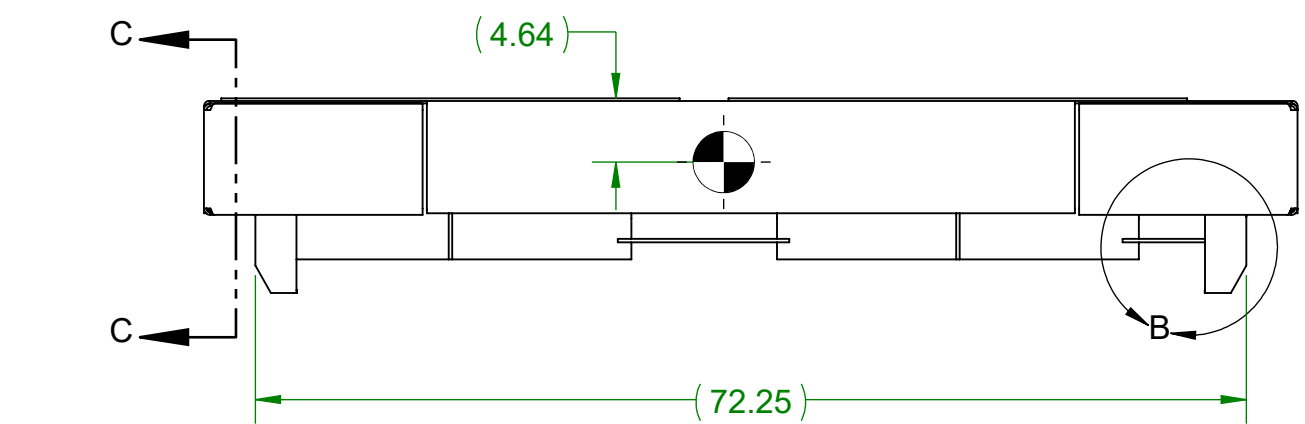
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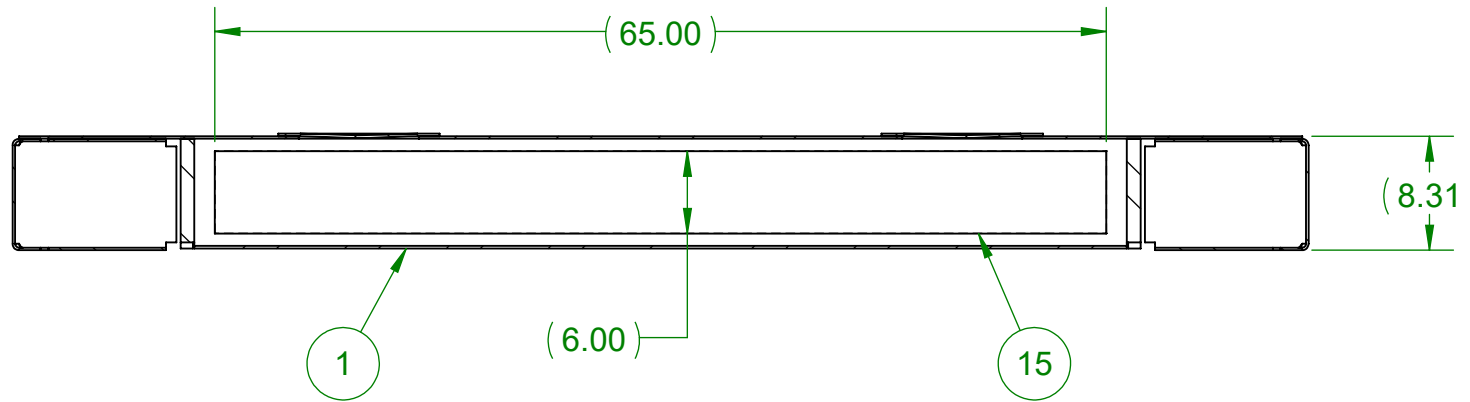
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SCALE 1 : 4



DETAIL B
SCALE 1 : 4

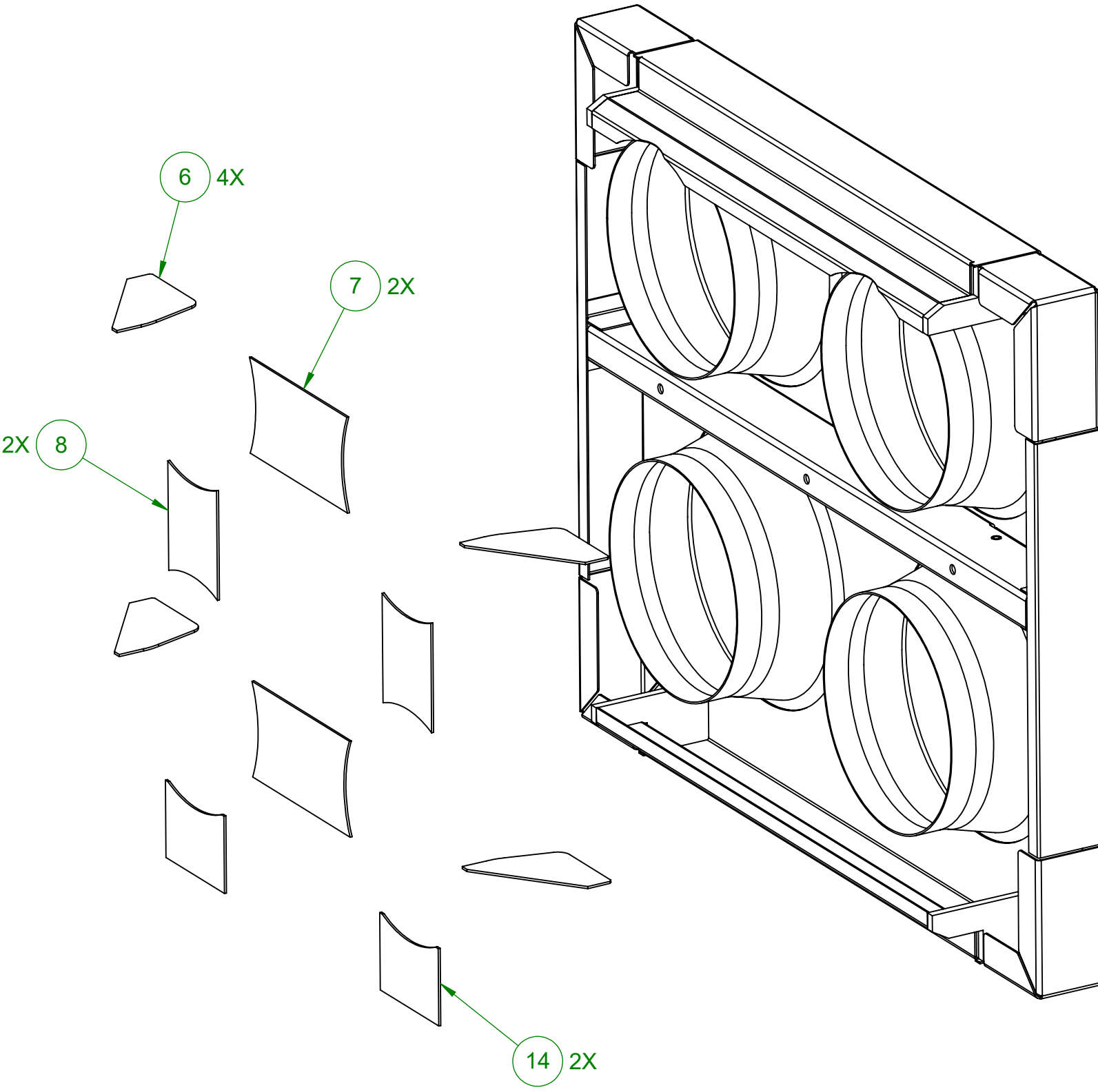


SECTION C-C



NOTES:

- FOR NOTES, DRAWING INDEX, REFERENCE DRAWINGS AND PART/MATERIAL LISTS, SEE 24590-HLW-M0-HEH-00038001.



Originator
By: Jason Hayes - jhayes
Eng Name: Mechanical Handling
Revised: Feb 26, 2025

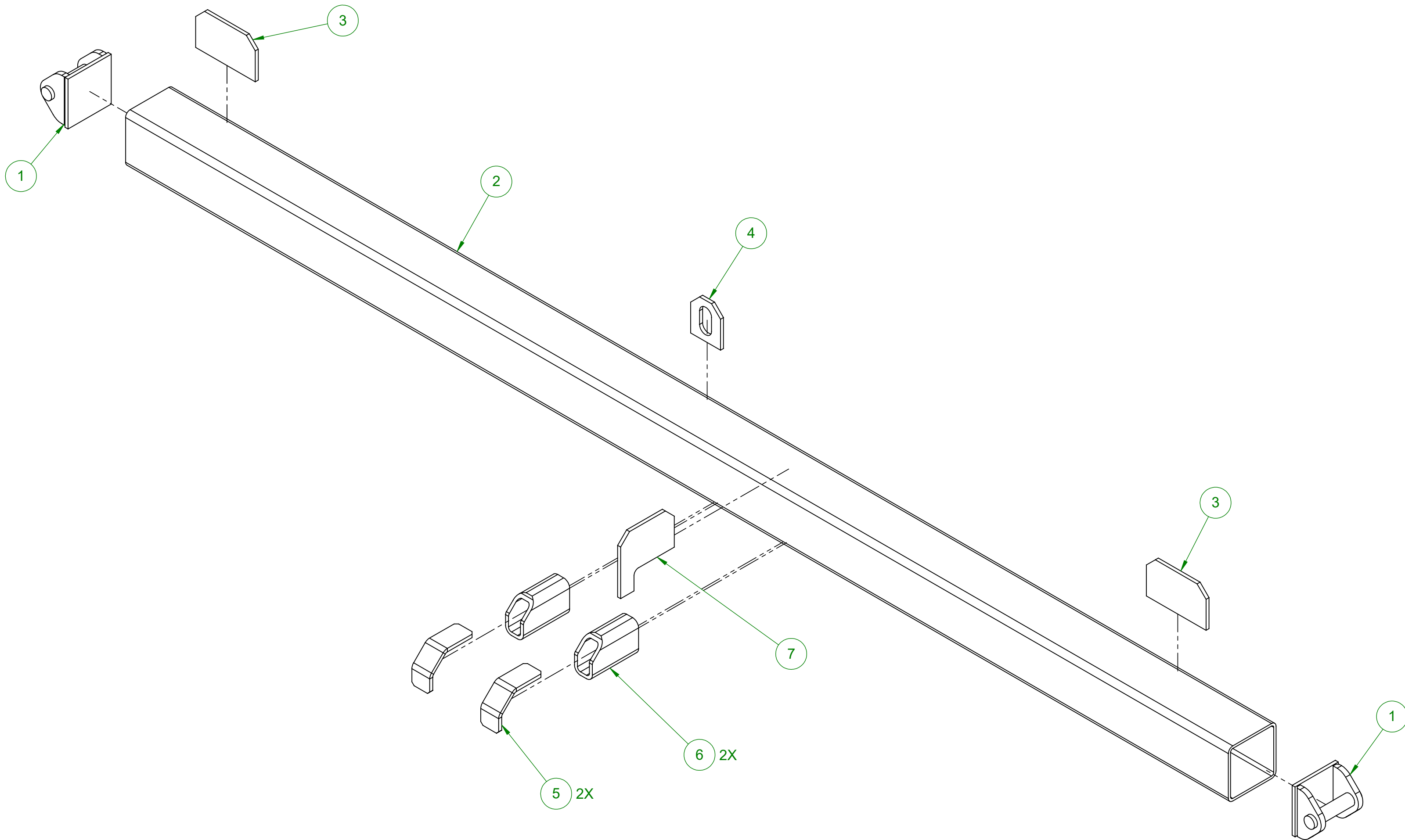
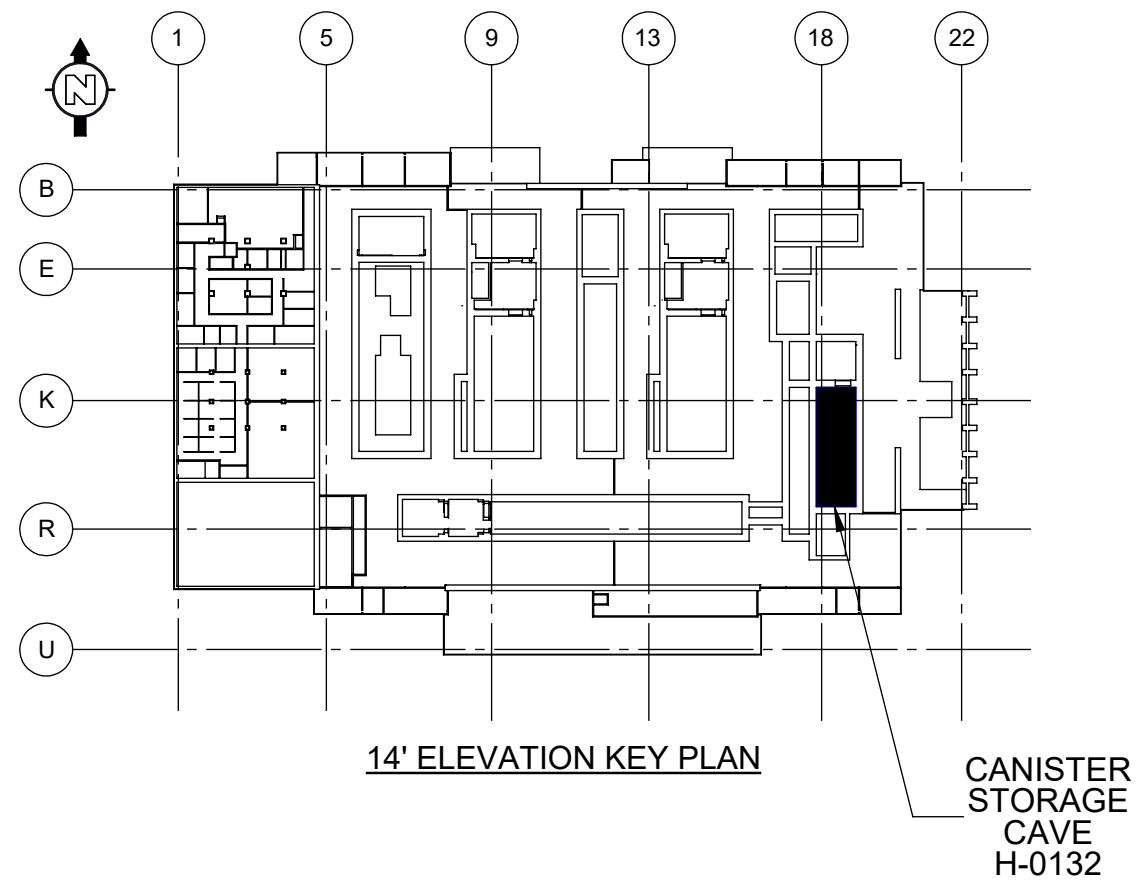
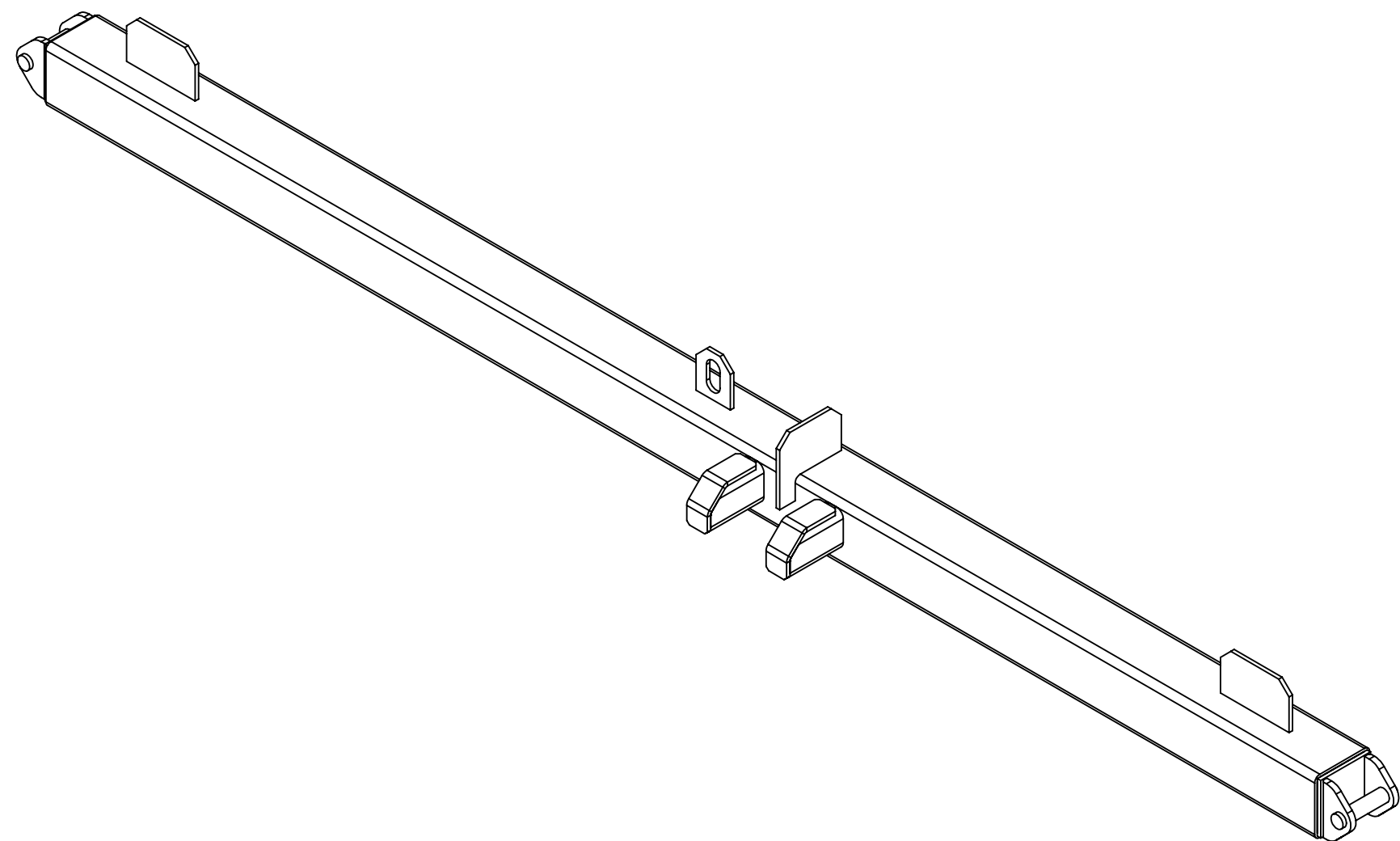
Checked
By: David Devincintis - ddevincis
Eng Name: Mechanical Handling
Revised: Feb 26, 2025

Reviewed
No Comments
By: Jason Schaeffer - jschaeff
Eng Name: N/A
Revised: Mar 11, 2025

Approved
By: Jason Schaeffer - jschaeff
Eng Name: N/A
Revised: Mar 11, 2025

DO NOT SCALE DRAWING	ISSUED BY RPP-WTP PDC	
THIRD ANGLE PROJECTION	ORIGINATOR	J. HAYES
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKER	D. DEVINCINTIS
TOLERANCES UNLESS SPECIFIED	REVIEWER	K. DRAPER
NO TOLERANCES ARE APPLIED TO DIMENSIONS UNLESS NOTED	APPROVER	J. SCHAEFFER
WEIGHT 1116.5 LBS	CONTENT APPLICABLE TO ALARA?	☒ YES ☐ NO
SUPPLIER DWG NO.	ADR NO. N/A	REV: N/A

CM	0	ISSUED FOR PROCUREMENT				JJH	DSD	KDD	JES	3/11/2025
	REV	DESCRIPTION				ORG	CHKD	RVWD	APVD	DATE
QUALITY DESIGNATOR										
REVISION HISTORY										
PROJECT No.		24590				 RIVER PROTECTION PROJECT WASTE TREATMENT PLANT 450 HILLS STREET RICHLAND, WA 99354				
SITE		HANFORD								
AREA		200E								
BUILDING No.		30 (HLW)								
BY		DATE		CONTRACT No: DE-AC27-01RV14136				WTP SUBCONTRACT No:		
J. HAYES		2/26/2025		HLW VITRIFICATION SYSTEM HEH DESIGN PROPOSAL DRAWING ASYMMETRICAL CANISTER GUIDE ASSEMBLY 2X2						
D. DEVINCENTIS		2/26/2025								
K. DRAPER		2/26/2025								
J. SCHAEFFER		3/11/2025								
TO ALARA?		☒ YES ☐ NO								
		REV: N/A		SCALE: 1:14		24590-HLW-M0-HEH-00038002				REV 0



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	DOCUMENT NUMBER	MATERIAL	WEIGHT (LBS)
1	2	CANISTER STORAGE RACK 8X8 TUBE END CONNECTOR	24590-QL-POA-SY00-00003-06-00185	ASSY	21.5
2	1	CANISTER STORAGE RACK 8X8 GUIDE SUPPORT BEAM	24590-QL-POA-SY00-00003-06-00130	AISI 304L	592.1
3	2	CANISTER STORAGE RACK CRASH PLATE	24590-QL-POA-SY00-00003-06-00318	AISI 304L	8.3
4	1	CANISTER STORAGE RACK LIFTING EYE	24590-QL-POA-SY00-00003-06-00311	AISI 304L	3.0
5	2	CANISTER STORAGE RACK GUIDE TUBE LEAD IN PLATE	24590-QL-POA-SY00-00003-06-00332	AISI 304L	4.6
6	2	CANISTER STORAGE RACK SHORT GUIDE TUBE	-	AISI 304L	13.1
7	1	CANISTER STORAGE RACK CENTER CRASH PLATE	-	AISI 304L	8.5

NOTES:

1. THIS DRAWING PROVIDES BASIC OUTLINES, DESIGN OBJECTIVES AND BOUNDING DIMENSIONS TO CONTRACTED DESIGN OR FABRICATION SUPPLIER(S) AND SHALL NOT BE USED TO CONFIRM THE AS BUILT WTP STRUCTURE, SYSTEM OR COMPONENT IDENTIFIED HEREIN. SEE SELLER INFORMATION FOR FINAL CONFIGURATION PROVIDED IN CONFORMANCE TO PURCHASE ORDER.
2. SELECTION OF COMPONENTS ON THIS DRAWING IS A PROPOSAL ONLY. THE SELLER SHALL BE RESPONSIBLE FOR FULL VALIDATION OF THE COMPONENTS SELECTED FOR THE CONTRACTED APPLICATION, WHETHER IDENTICAL TO THE BUYER PROPOSAL OR OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENGINEERING SPECIFICATION PROVIDED IN PURCHASE ORDER.
4. THE CONTENTS OF THIS DRAWING IS WASTE ACCEPTANCE IMPACTING PASSIVE (WAI-PASSIVE). REFER TO 24590-HLW-RPT-PR-01-001 AND 24590-HLW-QP-MH-09-0002.
5. REFER TO 24590-QL-POA-SY00-00003-06-00137 FOR UPPER STRUCTURAL BEAM B INTERFACE.
6. REFER TO 24590-QL-POA-SY00-00003-06-00138 FOR UPPER STRUCTURAL BEAM C INTERFACE.
7. CRITICAL DIMENSION. SHALL REMAIN IN FINAL DESIGN.
8. ALL DIMENSIONS, TOLERANCES, LIMITS OF SIZE, FORM, LOCATION AND RELATED TERMINOLOGY AND SYMBOLS SHALL BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5-2018.
9. EQUIPMENT SHALL SATISFY 40 YEAR DESIGN LIFE.
10. PART TO BE DEGREASED, CLEAN, AND FREE FROM LOOSE CONTAMINATE. CONDITION PART FOR SAFE HANDLING. NO SHARP EDGES PERMISSIBLE.
11. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.6.
12. LOCATE PERMANENT MARK COMPONENT IN ACCORDANCE WITH CONTRACT REQUIREMENTS IN APPROXIMATE LOCATION SHOWN.

COMPONENT TAG NUMBER: 24590-HLW-MJ-HEH-MHAN-00002

DRAWING INDEX	
DWG NO.	TITLE
24590-HLW-M0-HEH-00039001	HLW VIT SYS HEH DPD CANISTER STORAGE RACK GUIDE SUPPORT BEAM D
24590-HLW-M0-HEH-00039002	HLW VIT SYS HEH DPD CANISTER STORAGE RACK GUIDE SUPPORT BEAM D

REFERENCE DRAWINGS	
DWG NO.	TITLE
24590-QL-POA-SY00-00003-06-00138	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - UPPER STRUCTURAL BEAM C
24590-QL-POA-SY00-00003-06-00375	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - CANISTER STORAGE RACK UPPER LEVEL
24590-QL-POA-SY00-00003-06-00185	PROJECT 458 HLW RACKS - 8X8 TUBE END CONNECTOR
24590-QL-POA-SY00-00003-06-00130	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - CANISTER STORAGE RACK
24590-QL-POA-SY00-00003-06-00318	PROJECT 458 HLW RACKS - CRASH PLATE
24590-QL-POA-SY00-00003-06-00311	PROJECT 458 HLW RACKS - LIFTING EYE
24590-QL-POA-SY00-00003-06-00332	PROJECT 458 HLW RACKS - CAN GUIDE LEAD IN PLATE
24590-QL-POA-SY00-00003-06-00137	PROJECT 458 HLW SYSTEM HEH CANISTER STORAGE RACK - UPPER STRUCTURAL BEAM B
24590-HLW-WIQP-MH-09-0002	HLW CANISTER RACKS
24590-HLW-RPT-PR-01-001	WASTE ACCEPTANCE IMPACTING ITEMS AND ACTIVITIES

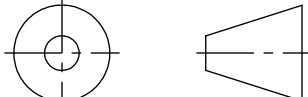
CM QUALITY DESIGNATOR	0	ISSUED FOR PROCUREMENT	JJH	DSD	KDD	JES	3/11/2025
	REV	DESCRIPTION	ORG	CHKD	RWVD	APVD	DATE
	REVISION HISTORY						

Originator
By: Jason Hayes - jhayes
Org Name: Mechanical Handling
Placed: Feb 26, 2025

Checked
By: Daniel DeVincents - ddevincen
Org Name: Mechanical Handling
Placed: Feb 26, 2025

Reviewed
No Comments
By: Kenneth O. Graper - kgraper
Org Name: HLW Mechanical Handling
Placed: Feb 26, 2025

Approved
By: Jason Schaeffer - jschaeft2
Org Name: HLW - Mechanical Handling
Placed: Mar 11, 2025

DO NOT SCALE DRAWING		ISSUED BY RPP-WTP PDC ISSUE STAMP		PROJECT No. 24590	
				SITE HANFORD	
				AREA 200E	
THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS SPECIFIED NO TOLERANCES ARE APPLIED TO DIMENSIONS UNLESS NOTED		BUILDING No. 30 (HLW)		BY DATE	
		ORIGINATOR		J. HAYES 2/26/2025	
		CHECKER		D. DEVINCENTIS 2/26/2025	
		REVIEWER		K. DRAPER 2/26/2025	
		APPROVER		J. SCHAEFFER 3/11/2025	
WEIGHT 698.7 LBS		CONTENT APPLICABLE TO ALARA? ☒ YES ☐ NO ADR NO. N/A		REV: N/A	
SUPPLIER DWG NO.					

		RIVER PROTECTION PROJECT WASTE TREATMENT PLANT 450 HILLS STREET RICHLAND, WA 99354	
CONTRACT No: DE-AC27-01RV14136		WTP SUBCONTRACT No:	
HLW VITRIFICATION SYSTEM HEH DESIGN PROPOSAL DRAWING CANISTER STORAGE RACK GUIDE SUPPORT BEAM D			
SCALE: 1:10	24590-HLW-M0-HEH-00039001		REV 0

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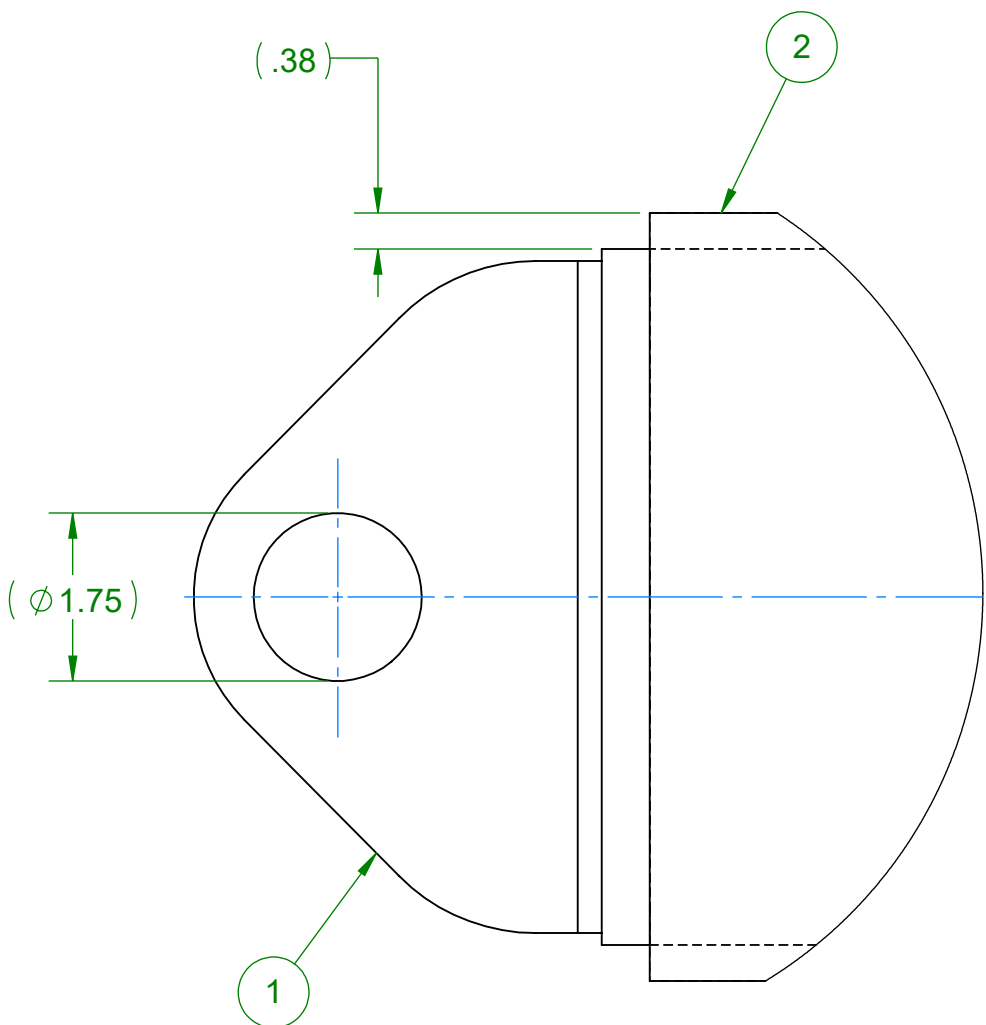
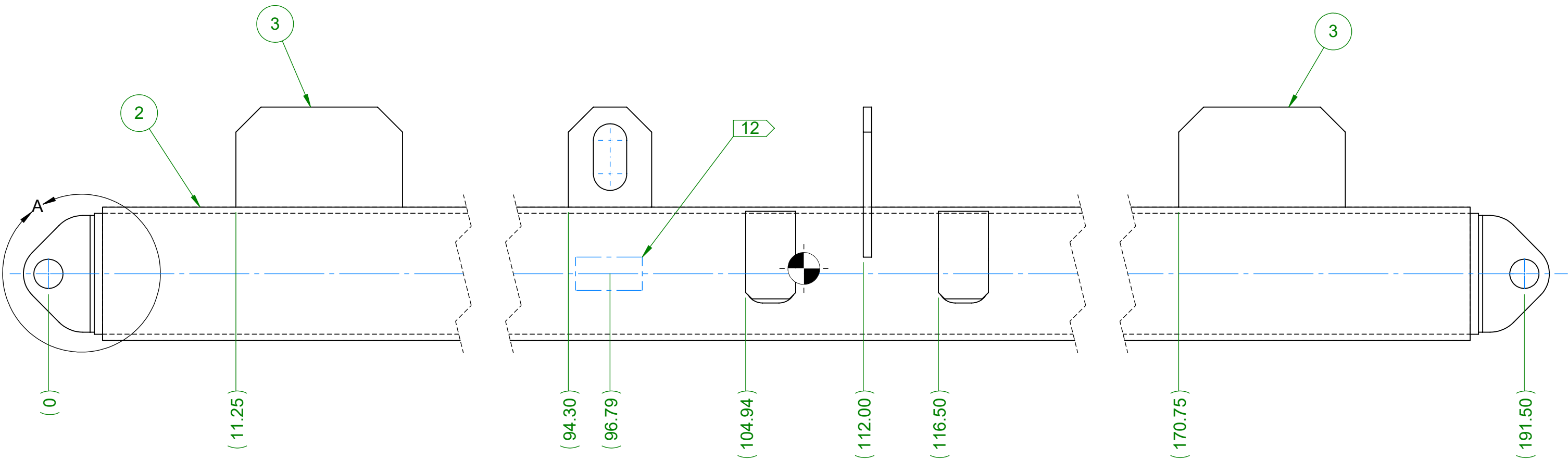
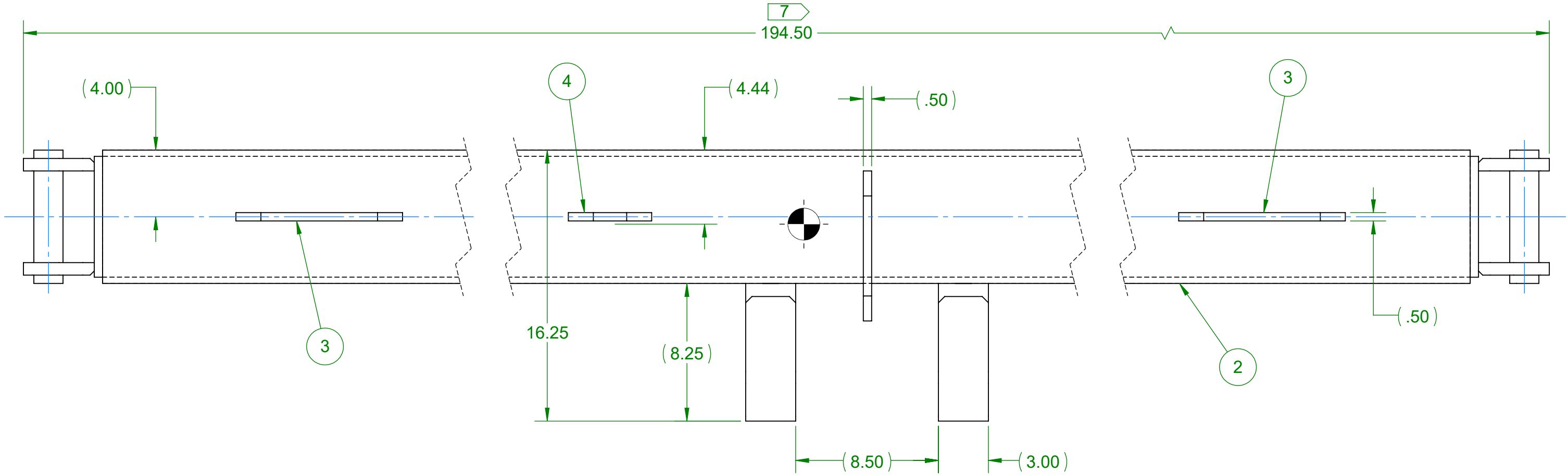
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B

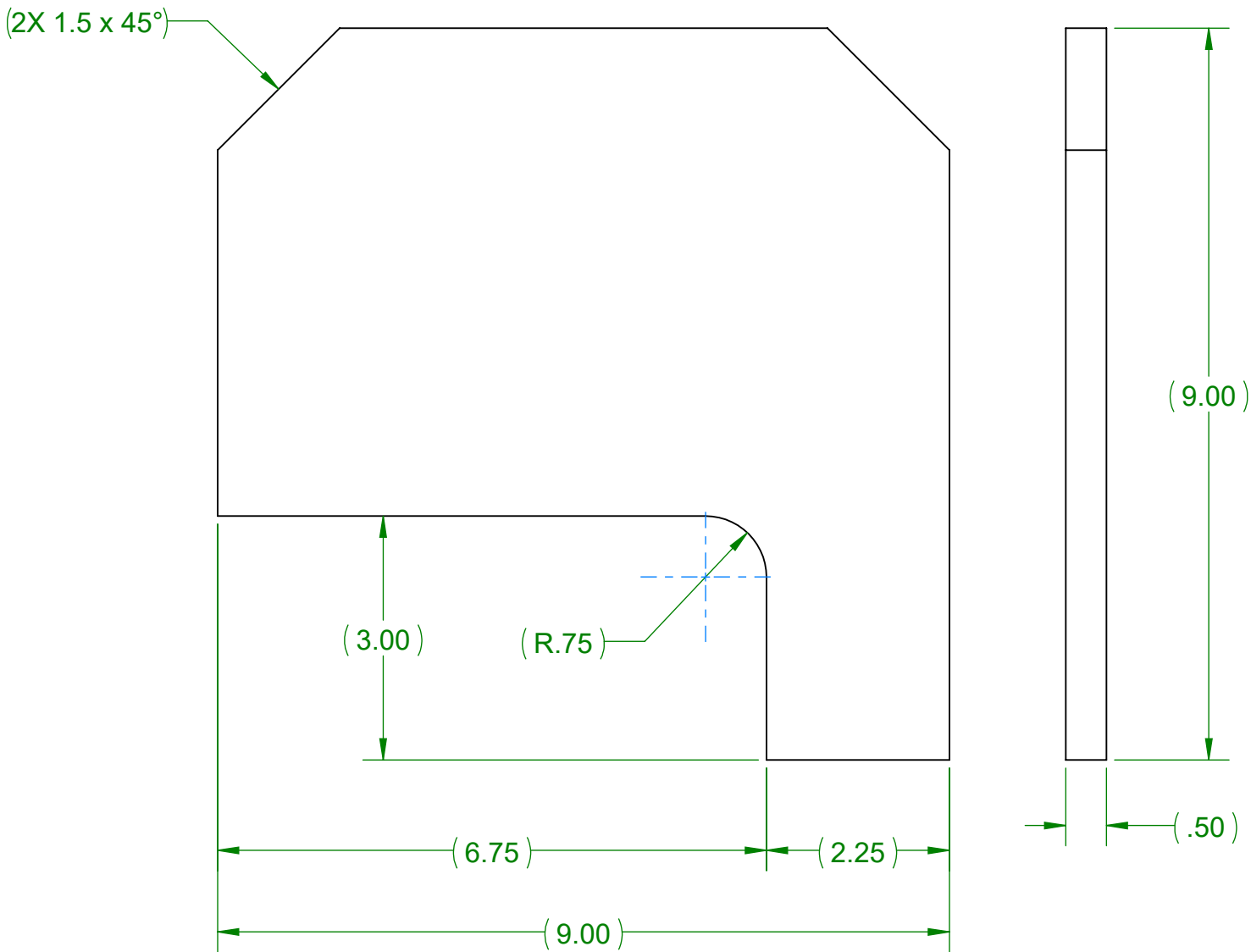
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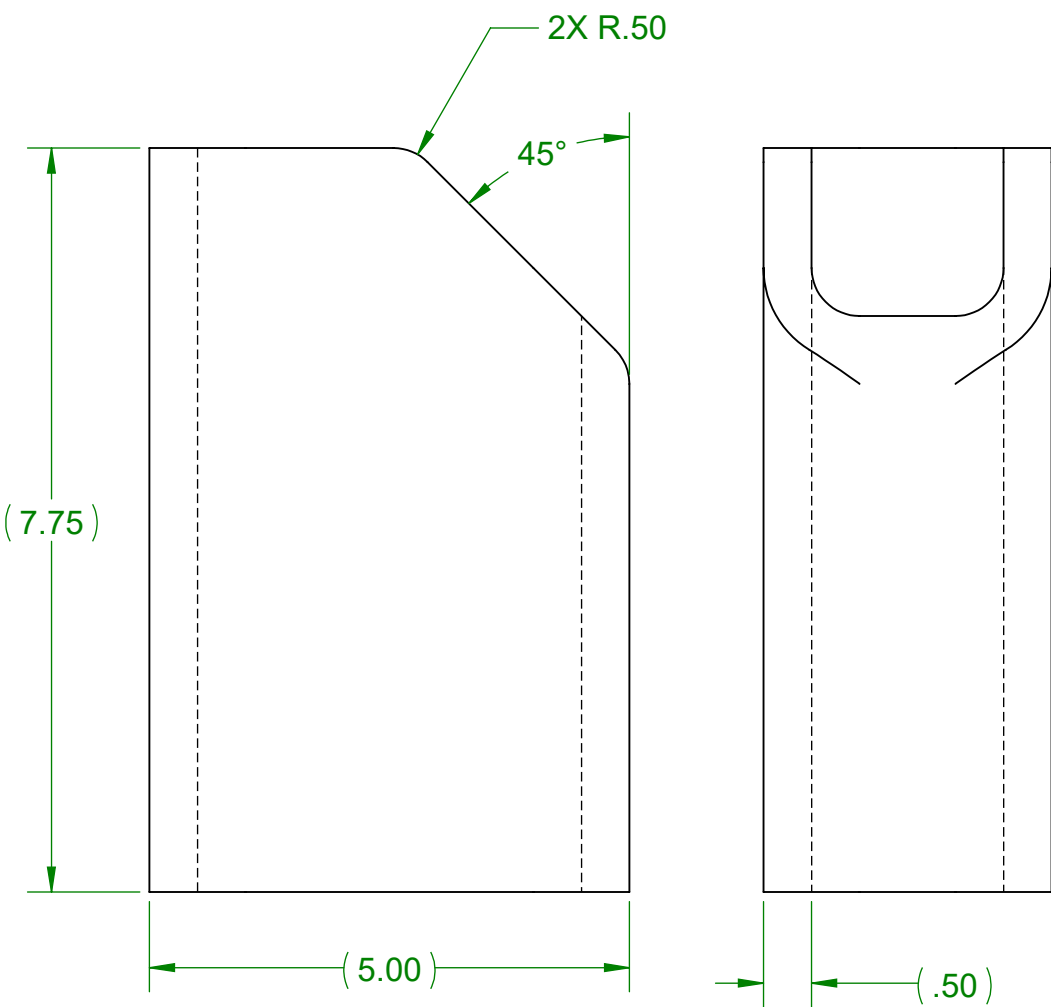
1. FOR NOTES, DRAWING INDEX, REFERENCE DRAWINGS AND PART/MATERIAL LISTS, SEE 24590-HLW-M0-HEH-00039001.



DETAIL A
SCALE 1 : 2



7 CANISTER STORAGE RACK CENTER CRASH PLATE
SCALE 1:2



6 CANISTER STORAGE RACK SHORT LEAD-IN TUBE
SCALE 1:2

CM	0	ISSUED FOR PROCUREMENT				JJH	DSD	KDD	JES	3/11/2025
	REV	DESCRIPTION				ORG	CHKD	RVWD	APVD	DATE
REVISION HISTORY										
QUALITY DESIGNATOR										
PROJECT No.		24590				 RIVER PROTECTION PROJECT WASTE TREATMENT PLANT 450 HILLS STREET RICHLAND, WA 99354				
SITE		HANFORD								
AREA		200E								
BUILDING No.		30 (HLW)								
BY		DATE		CONTRACT No: DE-AC27-01RV14136 WTP SUBCONTRACT No:						
J. HAYES		2/26/2025		HLW VITRIFICATION SYSTEM HEH DESIGN PROPOSAL DRAWING CANISTER STORAGE RACK GUIDE SUPPORT BEAM D						
D. DEVINCENTIS		2/26/2025								
K. DRAPER		2/26/2025								
J. SCHAEFFER		3/11/2025								
O ALARA?		☒ YES ☐ NO								
		REV: N/A		SCALE: 1:6		24590-HLW-M0-HEH-00039002				REV 0

H

G

F

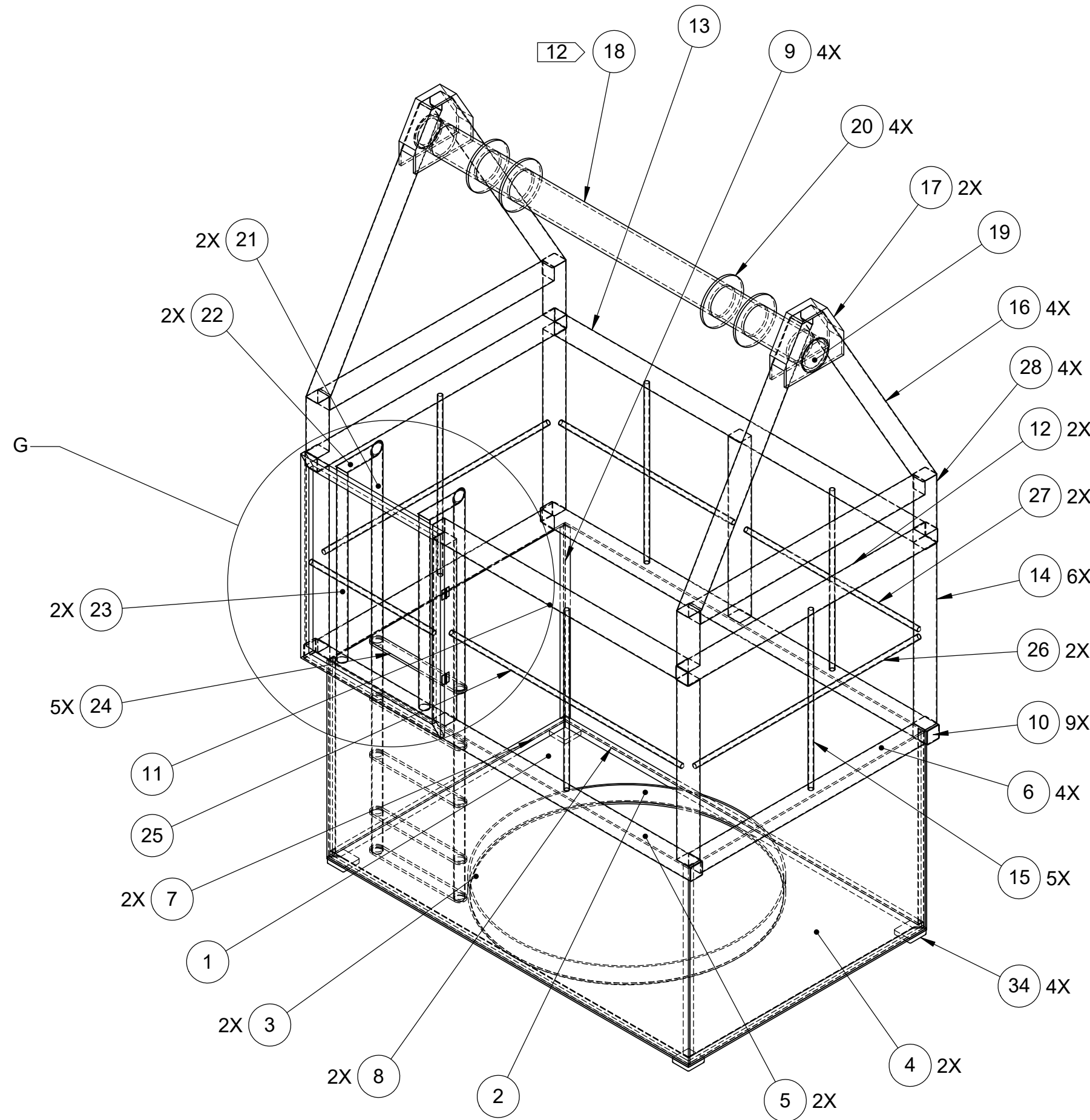
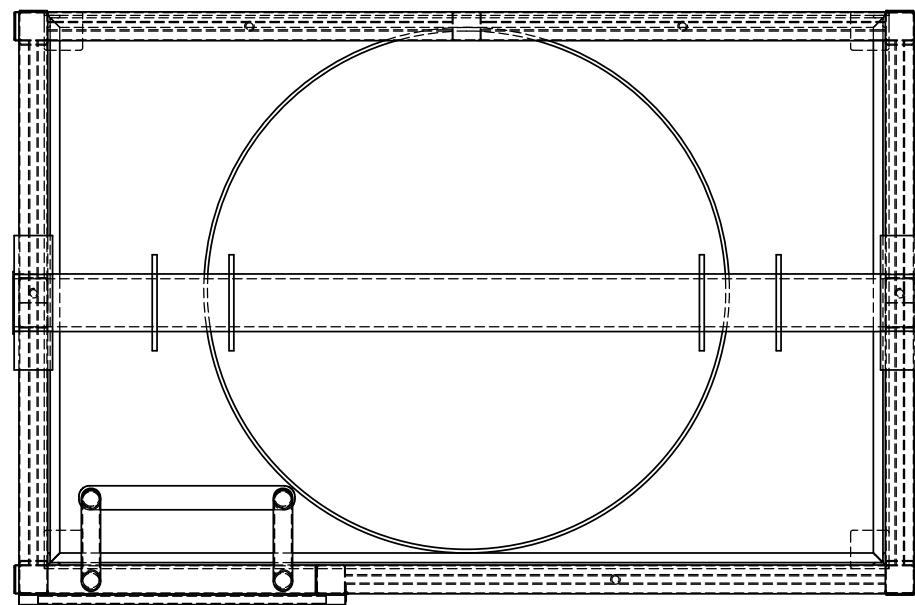
E

D

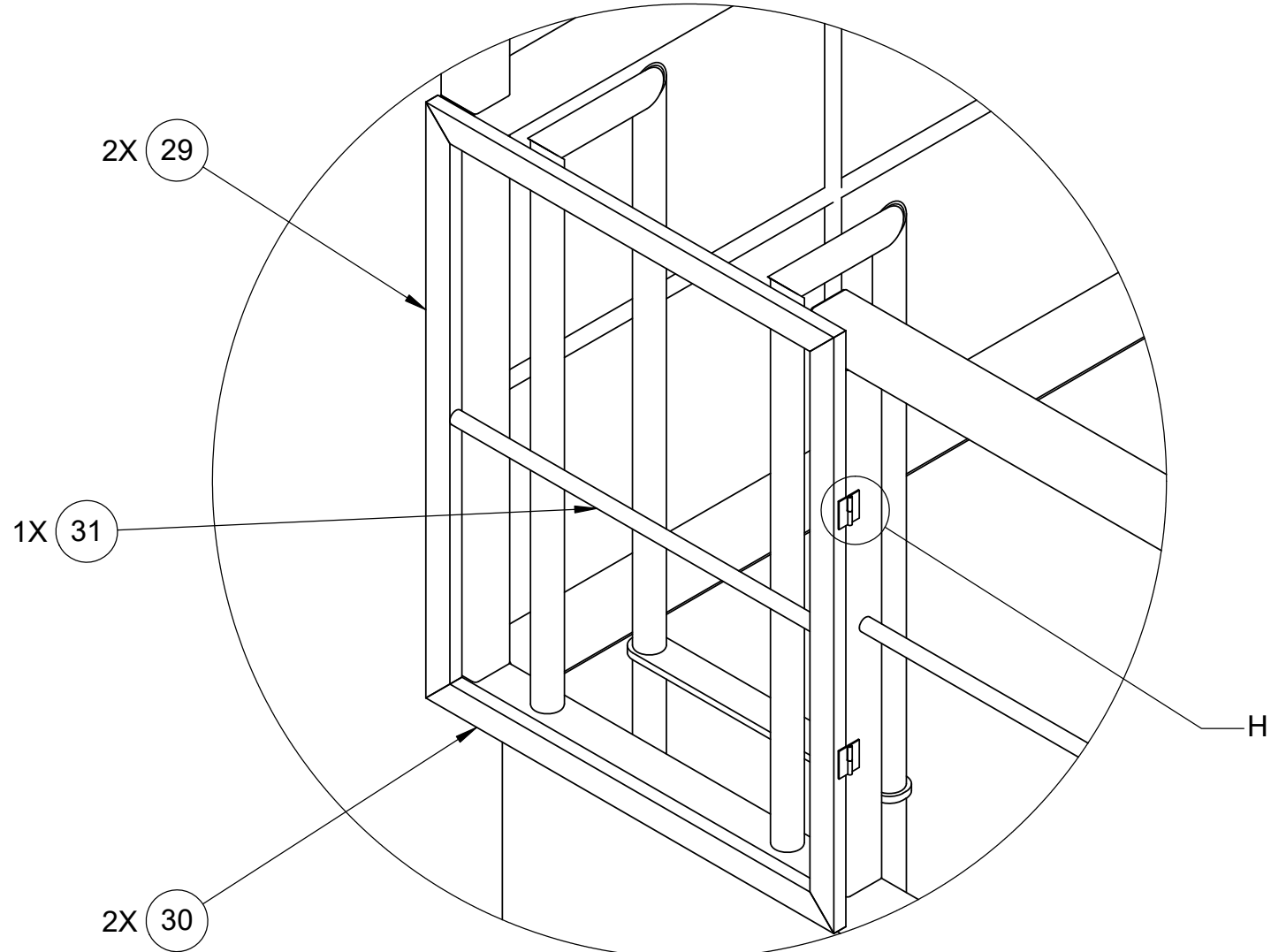
C

B

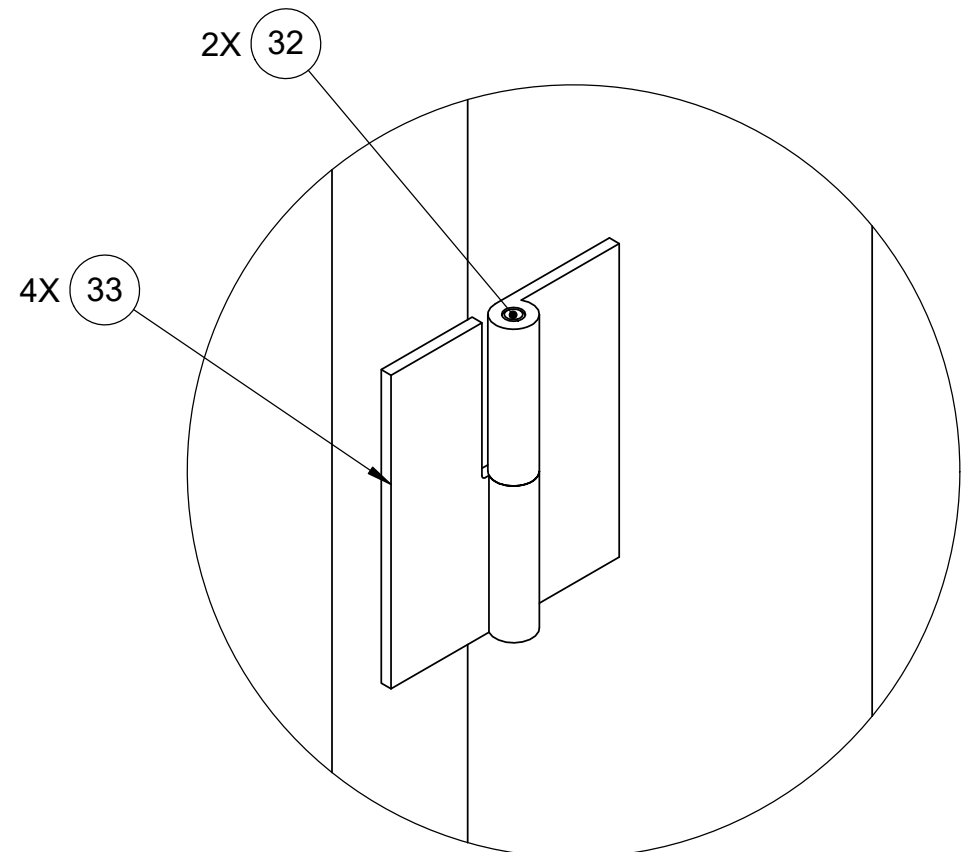
A



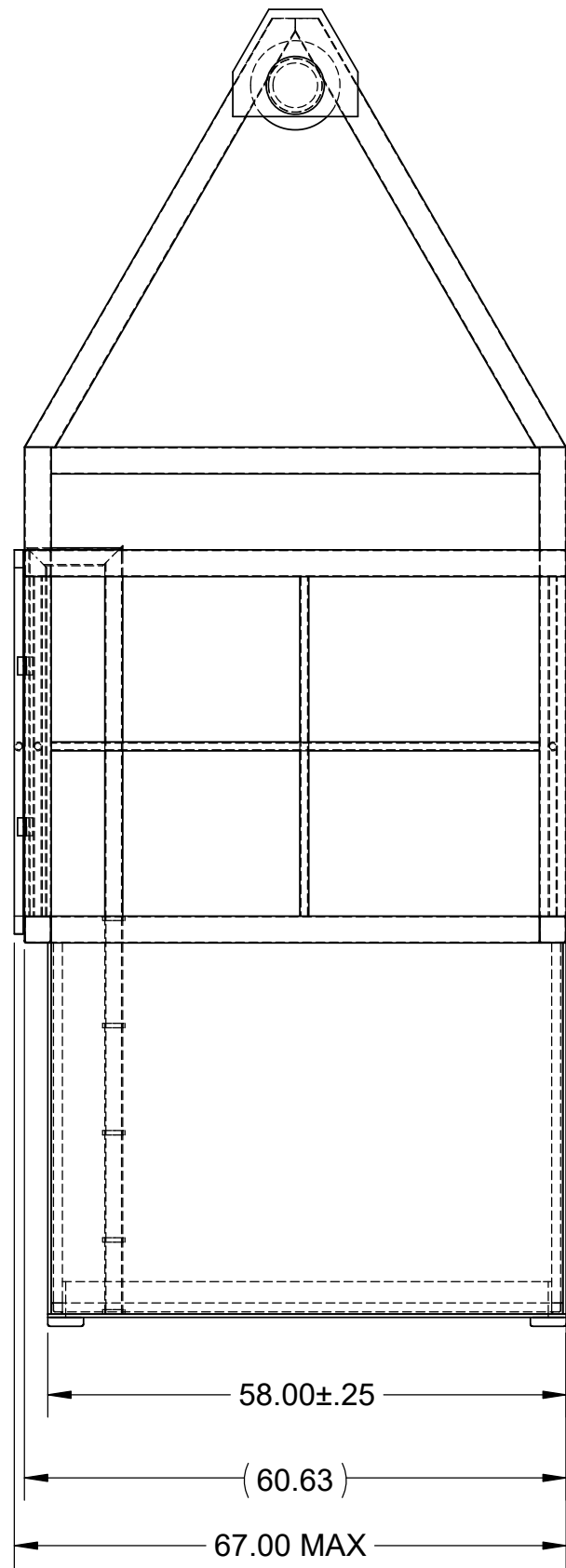
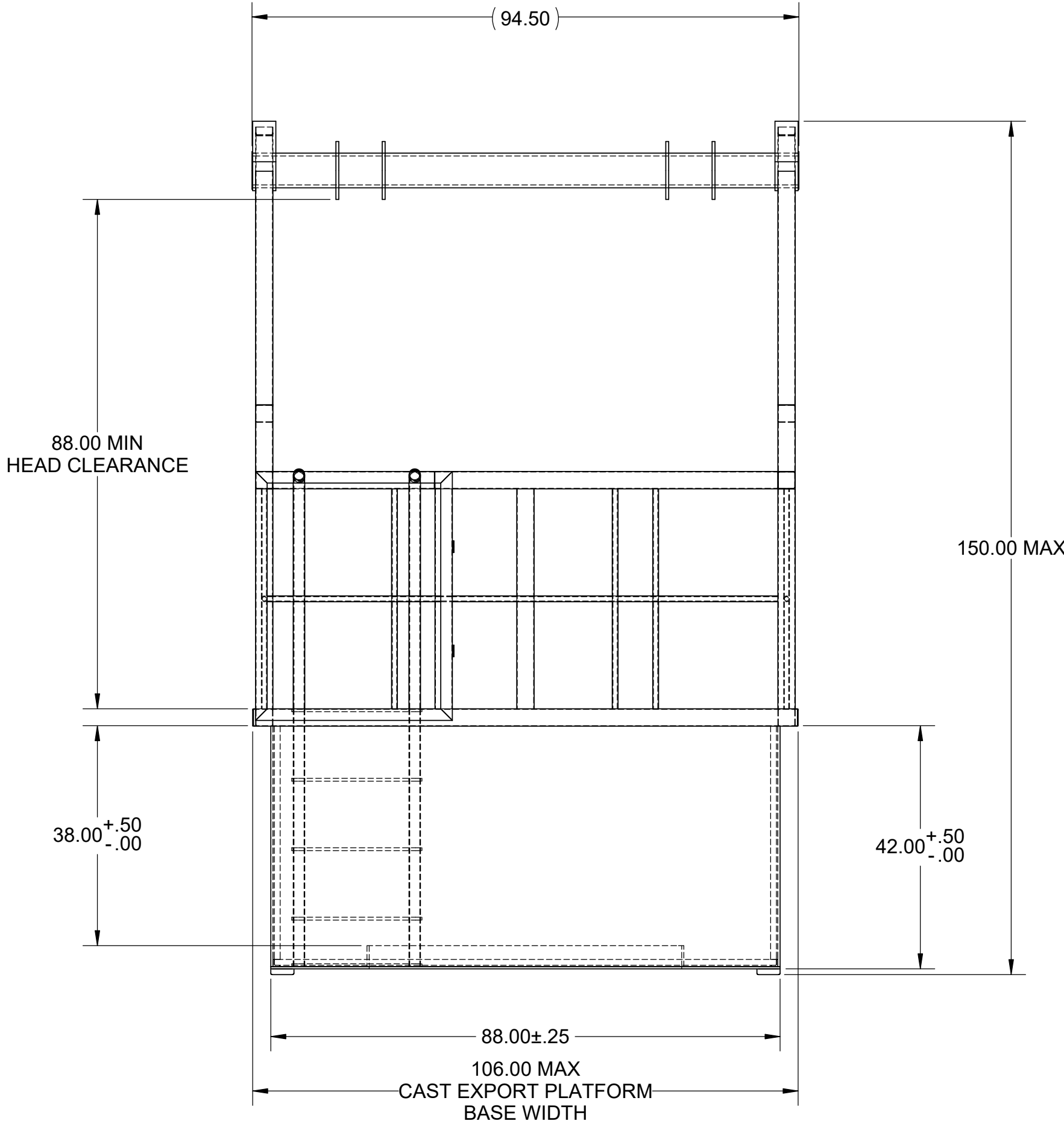
NOTES:
FOR NOTES, DRAWING INDEX, REFERENCE DRAWINGS AND PART/MATERIAL LISTS,
SEE 24590-HLW-M0-HEH-00028001.



DETAIL G
SCALE 1 : 10



DETAIL H
SCALE 1 : 1



Originator By: Kenneth D. Osipov - jkdraper Org Name: HLW Mechanical Handling Checked: Apr 23, 2025	Originator By: Jack Osipov - jkdraper Org Name: HLW Mechanical Handling Checked: Apr 23, 2025	Checked By: Jason Hayes - jhayes Org Name: Mechanical Handling Checked: Apr 23, 2025	Reviewed By: Jason Hayes - jhayes Org Name: Mechanical Handling Checked: Apr 23, 2025	Approved By: Jason Schaeffer - jschaeff Org Name: HLW Mechanical Handling Checked: Apr 25, 2025
---	---	--	---	---

1	ISSUED FOR PROCUREMENT, EXTENSIVE REVISION, COMPLETE REDRAW, LIFTING TRUNNIONS AND HANDRAILS ADDED.	KDD / JWD	JJH	DSD	JES	4/25/2025
0	ISSUED FOR DESIGN	BM	DRB	SLW	DW	1/30/2009
REV	DESCRIPTION	ORG	CHKD	RVWD	APVD	DATE

CM
QUALITY DESIGNATOR

DO NOT SCALE DRAWING	ISSUED BY RPP-WTP PDC	
	ISSUE STAMP	
THIRD ANGLE PROJECTION	ORIGINATOR	B. MARTINEZ
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKER	D. BARTON
TOLERANCES UNLESS SPECIFIED	REVIEWER	S. WINSEL
NO TOLERANCES ARE APPLIED TO DIMENSIONS UNLESS NOTED	APPROVER	D. WILSEY
WEIGHT 2631.0 LBS	CONTENT APPLICABLE TO ALARA?	☒ YES ☐ NO
SUPPLIER DWG NO.	ADR NO. NA	REV: NA



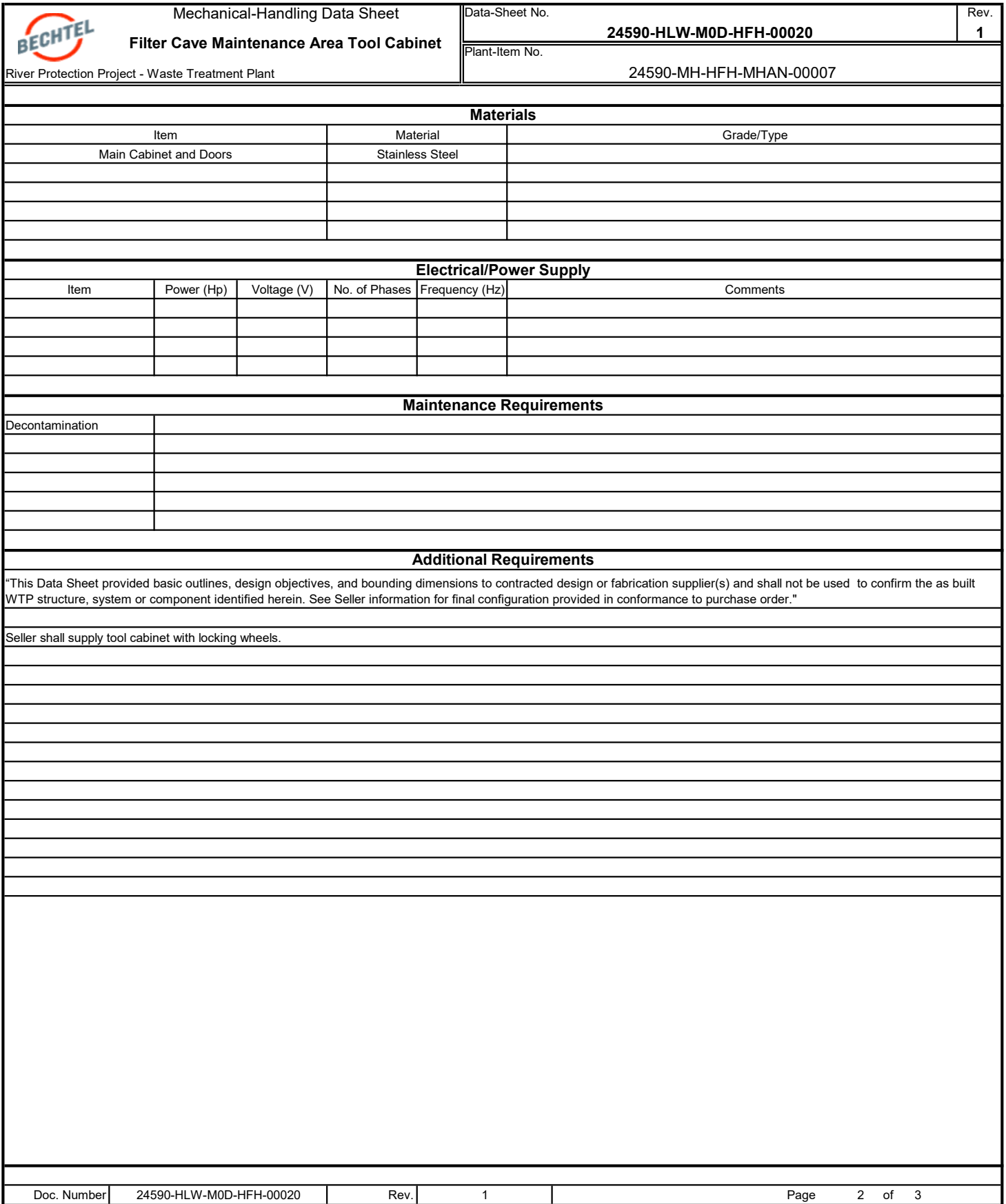
RIVER PROTECTION PROJECT
WASTE TREATMENT PLANT
450 HILLS STREET
RICHLAND, WA 99354

HLW VITRIFICATION SYSTEM HEH DESIGN PROPOSAL DRAWING CASK EXPORT PLATFORM

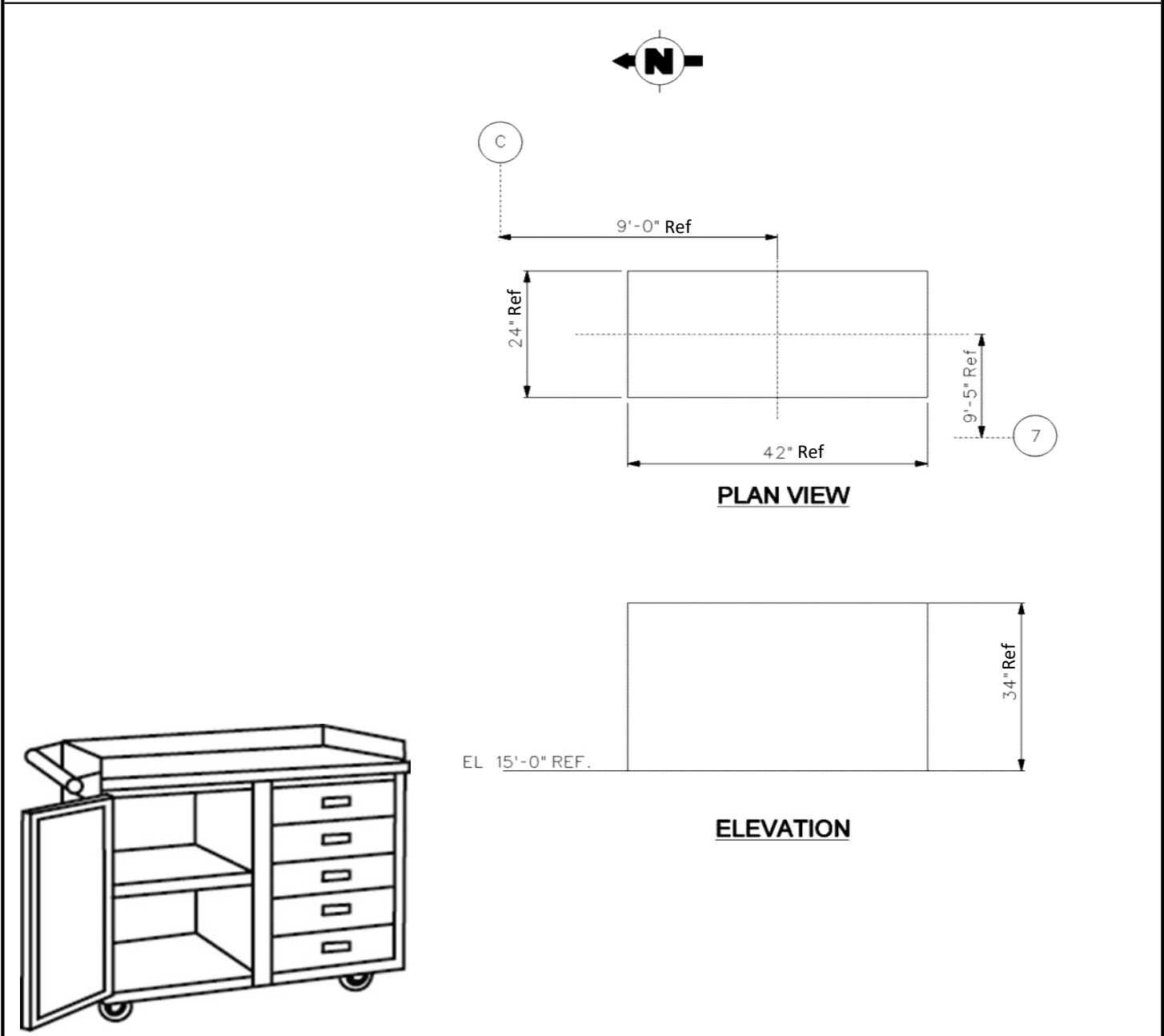
SCALE: 1:64
24590-HLW-M0-HEH-00028003

REV 1

 Mechanical-Handling Data Sheet Filter Cave Maintenance Area Tool Cabinet				CM		Data-Sheet No. 24590-HLW-M0D-HFH-00020				Rev. 1																																		
River Protection Project - Waste Treatment Plant				Plant-Item No. 24590-MH-HFH-MHAN-00007																																								
Project	RPP-WTP	System Description		24590-HLW-3ZD-HFH-00001, Rev 2																																								
Project No.	24590	Reference Documents		N/A																																								
Project Site	DOE Hanford																																											
Building	HLW																																											
System	HFH	Associated Drawings		24590-HLW-P1-P01T-00003, Rev 10																																								
Quality Level	CM			24590-HLW-P1-P23T-00203, Rev 4																																								
Seismic Criteria	NA																																											
Description: Maintenance Cave Tool Cabinet																																												
Function: Storage of HLW Filter Cave Maintenance Area Tools																																												
Design Criteria																																												
Design Life	N/A			Safety Class	Non-Safety																																							
Operating Environment																																												
		In-Cell Room: H-0201				Out-Cell Room:																																						
		Min.		Max.		Min.				Max.																																		
Temperature	deg F	59		95																																								
Relative Humidity	%	10		not controlled																																								
Radiological Equipment Dose	gamma	mR/hr.	0		10																																							
	neutron	mR/hr.	N/A		N/A																																							
Radiological Classification		R3/R5				NA																																						
Contamination Classification		C3/C5				NA																																						
Equipment Data																																												
Item				L x W x H and/or Dia.						L	W	H	Dia.																															
Total	Weight	lb _f	200 est.		Dimensions	in.			48		24	36																																
	Weight	lb _f			Dimensions	in.																																						
	Weight	lb _f			Dimensions	in.																																						
Note: Dimensions are Maximums, sketch dimensions are preferred.																																												
Operating Parameters																																												
Parameter		Minimum	Maximum																																									
Load Capacity	lb _f	N/A		800																																								
Cycle Frequency	per day																																											
Cycle Time	min.																																											
Travel/Rotation	ft.																																											
Speed	ft./min.																																											
Special Conditions																																												
Drive-System Components																																												
Item																																												
Drive Unit																																												
Bearings																																												
Seals																																												
Lubricants																																												
Margin Analysis: Is the change associated with a Q SSC? (If Rev 0, NA)																																												
										Yes	X	No																																
Does the change reduce margin or conservatism? (If Rev 0, NA)																																												
										Yes	X	No																																
Provide Calculation or MAJ number and revision:										N/A		Rev.	N/A																															
Safety Evaluation (24590-WTP-RPT-NS-19-001) PRSE Number:																																												
N/A																																												
<table border="1"><thead><tr><th colspan="2"></th><th>Originator</th><th>Checked</th><th>Reviewed</th><th>Approved</th></tr></thead><tbody><tr><td colspan="2"></td><td>By: Anthony Cabrera - acabrera Orig Name: HLW MH Placed: Feb 12, 2025</td><td>By: Dennis McMillan - dnmcmill Orig Name: MH Placed: Feb 12, 2025</td><td>By: Kenneth G. Draper - kdraper Orig Name: HLW Mechanical Handling Placed: Feb 12, 2025</td><td>By: Jason Schaeffer - jschae2 Orig Name: HLW - Mechanical Handling Placed: Feb 16, 2025</td></tr><tr><td colspan="2">1</td><td>Issued for Procurement, Extensive Revision, changes are not tracked</td><td>Anthony Cabrera</td><td>Dennis Mcmillan</td><td>Kenneth Draper</td><td>Jason Schaeffer</td></tr><tr><td colspan="2">04/05/04</td><td>Not For Purchase - Space Allocation Only. Supersedes 24590-HLW-M7D-HFH-00001, Rev. B.</td><td>Arland Eastwood</td><td>Bob Leyva</td><td>Lawrnel Harrison</td><td>Dave Wilsey</td></tr><tr><td>Date</td><td>Rev.</td><td>Revision</td><td>Originator</td><td>Checker</td><td>Reviewer</td><td>Approver</td></tr></tbody></table>														Originator	Checked	Reviewed	Approved			By: Anthony Cabrera - acabrera Orig Name: HLW MH Placed: Feb 12, 2025	By: Dennis McMillan - dnmcmill Orig Name: MH Placed: Feb 12, 2025	By: Kenneth G. Draper - kdraper Orig Name: HLW Mechanical Handling Placed: Feb 12, 2025	By: Jason Schaeffer - jschae2 Orig Name: HLW - Mechanical Handling Placed: Feb 16, 2025	1		Issued for Procurement, Extensive Revision, changes are not tracked	Anthony Cabrera	Dennis Mcmillan	Kenneth Draper	Jason Schaeffer	04/05/04		Not For Purchase - Space Allocation Only. Supersedes 24590-HLW-M7D-HFH-00001, Rev. B.	Arland Eastwood	Bob Leyva	Lawrnel Harrison	Dave Wilsey	Date	Rev.	Revision	Originator	Checker	Reviewer	Approver
		Originator	Checked	Reviewed	Approved																																							
		By: Anthony Cabrera - acabrera Orig Name: HLW MH Placed: Feb 12, 2025	By: Dennis McMillan - dnmcmill Orig Name: MH Placed: Feb 12, 2025	By: Kenneth G. Draper - kdraper Orig Name: HLW Mechanical Handling Placed: Feb 12, 2025	By: Jason Schaeffer - jschae2 Orig Name: HLW - Mechanical Handling Placed: Feb 16, 2025																																							
1		Issued for Procurement, Extensive Revision, changes are not tracked	Anthony Cabrera	Dennis Mcmillan	Kenneth Draper	Jason Schaeffer																																						
04/05/04		Not For Purchase - Space Allocation Only. Supersedes 24590-HLW-M7D-HFH-00001, Rev. B.	Arland Eastwood	Bob Leyva	Lawrnel Harrison	Dave Wilsey																																						
Date	Rev.	Revision	Originator	Checker	Reviewer	Approver																																						
Doc. Number 24590-HLW-M0D-HFH-00020 Rev. 1 Page 1 of 3																																												



Sketch



Note: This is a suggested location.

Comments

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A

NOTES:
FOR NOTES, DRAWING INDEX, AND REFERENCE DRAWINGS, SEE 24590-HLW-M0-HFH-00020001.

HEPA GASKET RING ASSEMBLY STAGED FOR FILTER
DOOR PLACEMENT AND ASSEMBLY
(SEE DWG 24590-QL-POA-MKH0-00002-07-00080)

GRAPPLE ENGAGED AND DISENGAGED WITH CHANGE-OUT STAND
FOR IN-CAVE REMOTE HANDLING
(SEE DWG 24590-QL-POA-FH00-00001-03-00143)

CHANGE-OUT STAND FILTER GRAPPLE INTERFACE DETAIL

INSERT/REMOVE 3X PINS FOR GASKET
RING ASSEMBLY RETENTION

Ø 28.25 (SEE DWG 24590-QL-POA-MKH0-00002-07-00079 & 00080)
Ø 27.50 (SEE DWG 24590-QL-POA-MKH0-00002-07-00080)

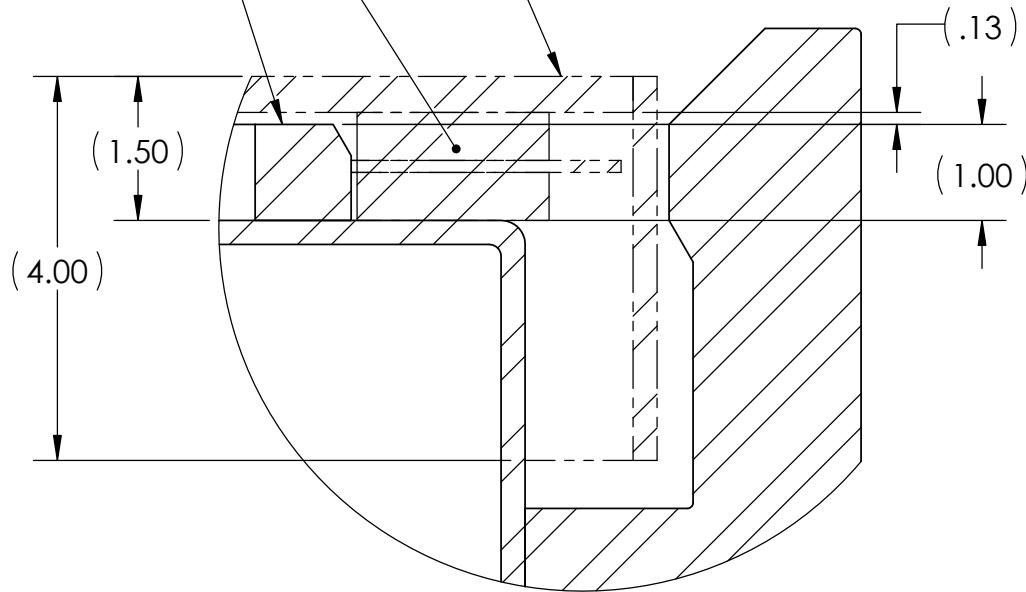
LAY-DOWN SURFACE
ASSEMBLED HEPA FILTER HOUSING DOOR INSTALLED ON CHANGE-OUT STAND

GRAPPLE ENGAGED WITH HEPA FILTER DOOR FOR INSTALL
AND REMOVAL ON CHANGE-OUT STAND
(SEE DWG 24590-QL-POA-FH00-00001-03-00143)

HEPA FILTER HOUSING DOOR (SEE DWG 24590-
QL-POA-MKH0-00002-07-00079 & 00080)

HEPA FILTER HOUSING DOOR (SEE DWG 24590-
QL-POA-MKH0-00002-07-00079 & 00080)
HEPA GASKET RING ASSEMBLY (SEE DWG
24590-QL-POA-MKH0-00002-07-00080)

GASKET ALIGNMENT RING



DETAIL B
SCALE 1 : 2

SCALE 1 : 4

CM	0	ISSUED FOR PROCUREMENT				JWD	LPL	KDD	JES	2/5/2025
	REV	DESCRIPTION				ORG	CHKD	RVWD	APVD	DATE
REVISION HISTORY										
QUALITY DESIGNATOR										
PROJECT No.		24590								
SITE		HANFORD								
AREA		200E								
BUILDING No.		30 (HLW)								
BY		DATE		 RIVER PROTECTION PROJECT WASTE TREATMENT PLANT 450 HILLS STREET RICHLAND, WA 99354						
J. DENISTON		1/29/2025		CONTRACT No: DE-AC27-01RV14136 WTP SUBCONTRACT No:						
L. LANCASTER		1/30/2025		HLW VITRIFICATION SYSTEM HFH DESIGN PROPOSAL DRAWING HEPA FILTER GASKET CHANGE- OUT STAND						
K. DRAPER		2/3/2025								
J. SCHAEFFER		2/5/2025								
O ALARA?		☒ YES ☐ NO								
		REV: NA								
				SCALE: 1:3		24590-HLW-M0-HFH-00020002				REV 0

Originator
By: Jack Deniston - denisto
Eng Name: HLW Mechanical Engineering
Checked: Jan 29, 2025

Checked
By: Larry Lancaster - lancast
Eng Name: HLW Mechanical Engineering
Checked: Jan 30, 2025

Reviewed
No Comments
Reviewed By: J. Schaeffer
Eng Name: HLW Mechanical Engineering
Checked: Feb 05, 2025

Approved
By: J. Schaeffer - schaeff
Eng Name: HLW Mechanical Engineering
Checked: Feb 05, 2025

DO NOT SCALE DRAWING	Issued By RPP-WTP PDC	
	ISSUE STAMP	
THIRD ANGLE PROJECTION	ORIGINATOR	J. DENISTON
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKER	L. LANCASTER
TOLERANCES UNLESS SPECIFIED	REVIEWER	K. DRAPER
NO TOLERANCES ARE APPLIED TO DIMENSIONS UNLESS NOTED	APPROVER	J. SCHAEFFER
WEIGHT	124.6 LBS	
SUPPLIER DWG NO.		