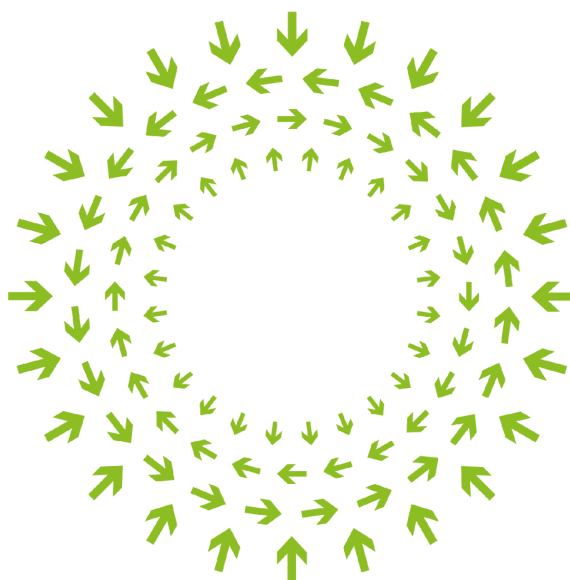




OPEN

Compute Project

ORW Project: Rack and Power

Open Rack Wide (ORW)

Revision V1.0.1

Meta Design Specification

Effective May 5, 2026

Author(s): Rich Banyard, Darryl Daniel

Version History

Date	Version #	Author(s)	Description
10 MAR 2026	0.9.0-rc5	Rich Banyard Darryl Daniel	preliminary draft; document broken out separately from original combined template ORW Base Spec / Meta Design Spec
28 APR 2026	1.0.0	Rich Banyard Darryl Daniel	Initial release
05 MAY 2026	1.0.1	Darryl Daniel	Updated embedded dimensional views

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1. License

1.1. Open Web Foundation (OWF) CLA

Contributions to this Specification are made under the terms and conditions set forth in **Modified Open Web Foundation Agreement 0.9 (OWFa 0.9)**. (As of October 16, 2024) (“Contribution License”) by:

Rittal CSM
Meta Platforms Inc.

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You can review the applicable Specification License(s) referenced above by the contributors to this Specification on the OCP website at <https://www.opencompute.org/contributions/templates-agreements>.

Notes:

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1.2. Acknowledgments

The Contributors of this Specification would like to acknowledge the following for their feedback:

Brendan Blackford, Rittal CSM
Glenn Charest, Meta Platforms Inc
Paul Clements, Rittal CSM
Cecilia Galvan, Meta Platforms Inc
Ben Kim, Meta Platforms Inc
Dmitriy Shapiro, Meta Platforms Inc

2. Compliance with OCP Tenets

2.1. Openness

The specification builds on the ORW Base Specification and provides an example of a detailed implementation for the community to leverage and promote the building of open products. Detailed design specifications and documentation needed to build this Meta unique version of ORW are incorporated into this specification.

2.2. Efficiency

The sharing of this specification will enable other community members to leverage and learn from the development work that Rittal & Meta have put into developing a detailed design of the frame and accessories designs.

2.3. Impact

This version of the ORW frame provides a detailed design contribution that will allow others to reference in future contributions or designs. This will also allow adopters to leverage all the development work and validation testing, allowing them to potentially develop and deploy other unique solutions with quicker time to market.

2.4. Scale

The various construction and design requirements outlined were all developed to support the build at Scale of this Meta version frame. By sharing common and interchangeable parts, the community can build at scale while leveraging components from each other.

2.5. Sustainability

The frame design has application in multiple IT industry domains and, as a result, has the potential to enable more rack reuse in these different areas.

3. Overview

ORW Meta Design Specification is Meta's implementation of the ORW Base Specification. This document provides additional design details beyond the Base Specification, including the rack base supports, packaging mounting interfaces, overall physical dimensions (height, width, and depth), maximum payload capability, and additional accessory items not included in the Base Specification.

Any statements using:

SHALL must meet this requirement to comply with the specification

SHOULD are recommended to meet this requirement but are not required

MAY are suggested if the rack supplier is interested in meeting for interoperability between solutions

4. Meta Design Specification - ORW Rack Frame Implementation

4.1. Description

This ORW Meta Design Specification details Meta's implementation of the ORW Base Specification. Details are provided in the sections below, and should be used in conjunction with the provided 3D CAD & 2D drawing additional collateral included with this contribution.

4.2. Physical Specifications

Note: For high resolution drawings of each embedded dimensional view, refer to Appendix A.

Dimensions below are nominal approximate values for the external frame dimensions (refer to drawing in Appendix A drawings for exact dimensions and tolerances):

- 4.2.1. **Height (nominal):** 2390 mm (94 inches)
- 4.2.2. **Width (nominal):** 1200 mm (47.25 inches)
- 4.2.3. **Depth (nominal):** 1219 mm (48 inches)

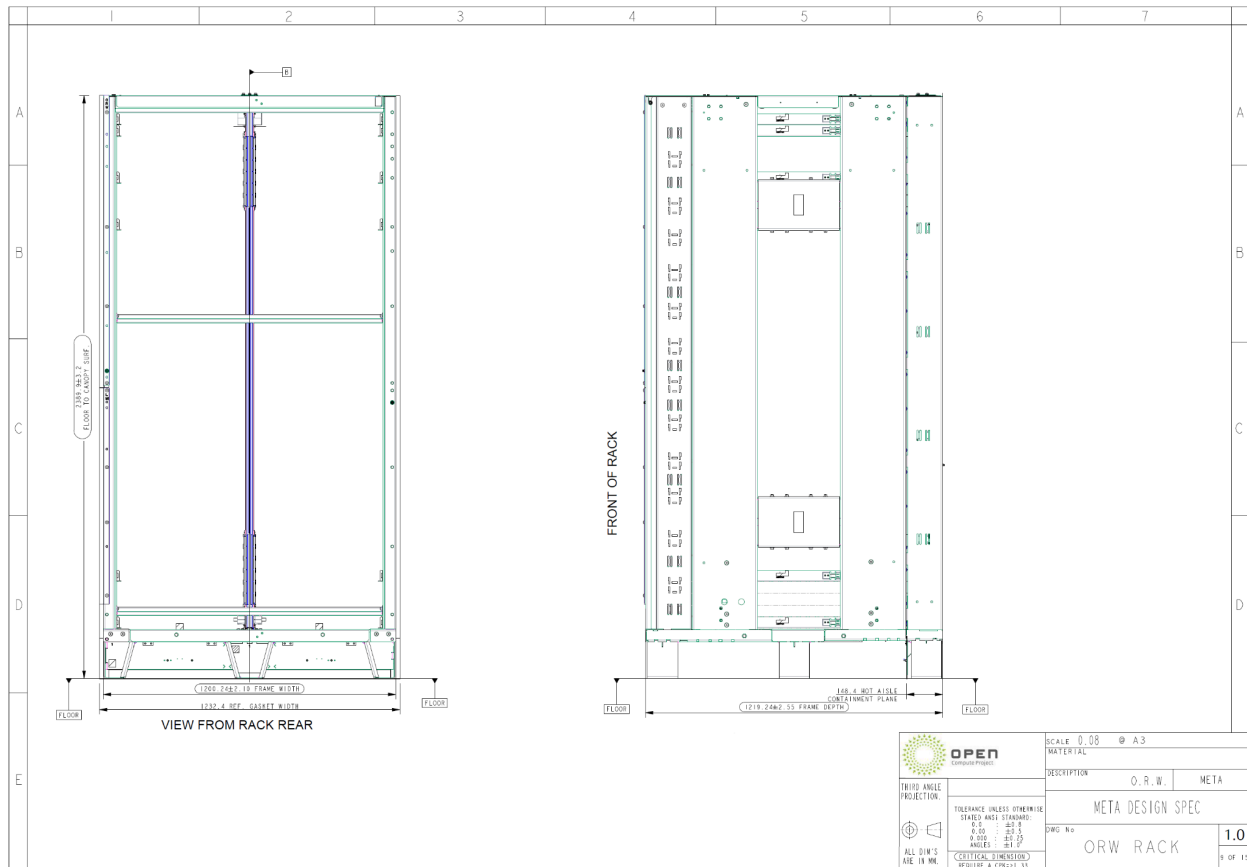


Figure 4.2.1 Meta Design Spec frame overall dimensions

4.3. Payload Rating

Note: Many factors impact the frame payload capability, including IT equipment weight distribution, cross-brace quantity and location, packaging design, test requirements and other factors. **Specific rack configurations should be validated and tested to meet end user requirements.** The load rating of the frame with no cross-bracing has not been evaluated by Meta.

Load rating of the frame SHALL be **4700 kg (~10,360 lbs) minimum** with allowable support bracing and/or stiffening members included. This does NOT include the mass of the rack frame itself. Any additional items installed into the rack SHALL count towards the max payload, including busbar, IT gear, IT shelves, cross-braces, manifolds, canister chassis, cabling, doors, side panels and any other accessory items.

Load capability SHALL be verified with testing using evenly distributed IT gear mass and two cross-braces installed. While the frame design has been validated with Shock and Vibe testing up to 4700 kg, the frame may exceed this payload rating under certain configuration conditions.

4.4. OU/RU Capacity

This frame design has the capacity to support 44 OpenU or 47 RU of IT gear. The rack design also shall have the ability to support 88 - ½ OpenU IT gear as well. The mixing of the various types is possible as the rack design has cut outs for gear support brackets for each option. Note that the spacing and support bracket designs vary and the details regarding the mixing IT gear types is not covered in this specification. Note that a ½ OpenU design guide does not exist, but the features are included in the rack to allow for design flexibility for developers, including custom IT shelf designs.

4.5. Mechanical

4.5.1. Frame Cross-Section

The Meta ORW Frame Design adopts the same cross-section as the ORW Base Specification in order to maintain IT Gear & Busbar compatibility. Refer to the ORW Base Specification for dimensions of frame cross-section.

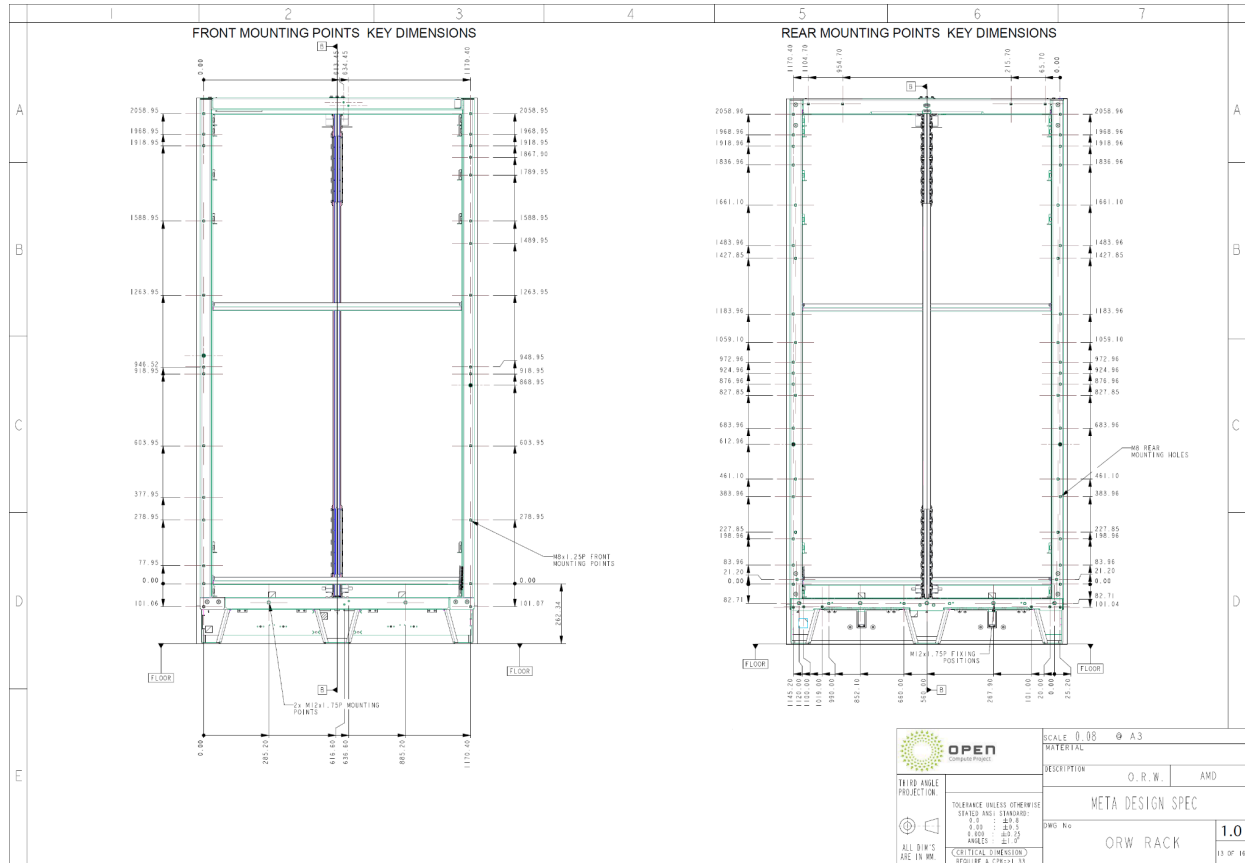
4.5.2. Frame Mounting Points

Mounting point locations on the front and rear of the rack are outlined below. These locations can be used for mounting doors, airflow sealing gaskets, or other accessories. There are also mounting points on the sides of the rack.

- M8 fasteners SHALL be:
 - M8 x 1.25p - 6H threads
 - Have minimum torque out of 20 N-m
 - Have minimum 7 full threads
- M12 fasteners SHALL be:
 - M12 x 1.75p - 6H threads
 - Have minimum torque out of 20 N-m
 - Have minimum of 9 full threads

Open Compute Project • Open Rack Wide (ORW) Meta Design Specification, V1.0.1

- The threaded fasteners in the frame SHALL NOT protrude above of the frame installed surface
- The distance from the frame face to the start of the threads on the M8 fastener SHALL be 6mm maximum and on the M12 fastener SHALL be 8mm maximum; this should be considered when selecting fastener lengths



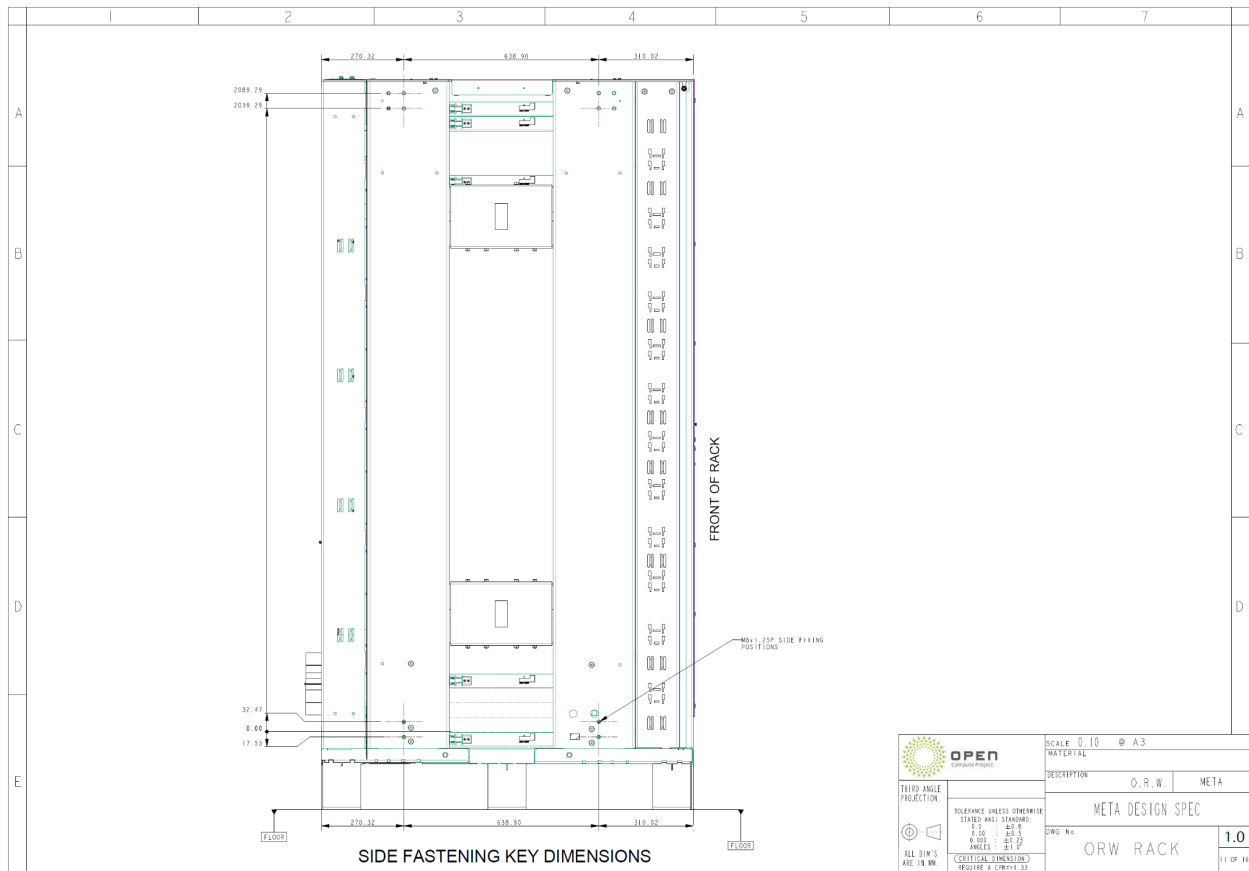


Figure 4.5.2.2 Side Mounting Points (both sides of frame)

4.5.3. Packaging Mounting Points

The following M12 x 1.75p - 6H threaded holes are provided for mounting the ORW frame to a pallet/crate and securing with the use of packaging brackets. There are two threaded mounting holes per side of the frame.

Technical drawing of the PALLET BRACK MOUNT INTERFACES, showing three views: VIEW FROM RACK REAR, VIEW FROM RACK FRONT, and VIEW FROM RACK SIDE, 2X.

Dimensions and callouts:

- VIEW FROM RACK REAR: Overall length 1122.00, distance between mounting points 354.26, height 4113.65. Callout: 2x W12x1.35 THREADED T.S.F.'S.
- VIEW FROM RACK FRONT: Overall length 602.00, height 4113.65. Callout: 2x W12x1.35 THREADED T.S.F.'S.
- VIEW FROM RACK SIDE, 2X: Overall length 407.00, height 4113.65. Callout: 2x W12x1.35 THREADED T.S.F.'S.

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	MATERIAL
DESCRIPTION	O. R. W. META
META DESIGN SPEC	
DWG No.	1.0
ORW RACK	

DISCLAIMER:

TOLERANCE UNLESS OTHERWISE STATED: AS PER STANDARD

ALL DIM'S ARE IN MM

REVISION A: 07-11-14

CERTIFICATION

4.5.4. Air Flow

4.5.5. Rack Base Geometry

Page 14

equipment including forklifts, pallet jacks, and automated guided vehicles (AGVs). Due to significant variation in mover equipment options, end users should validate and test any potential rack mover solutions.

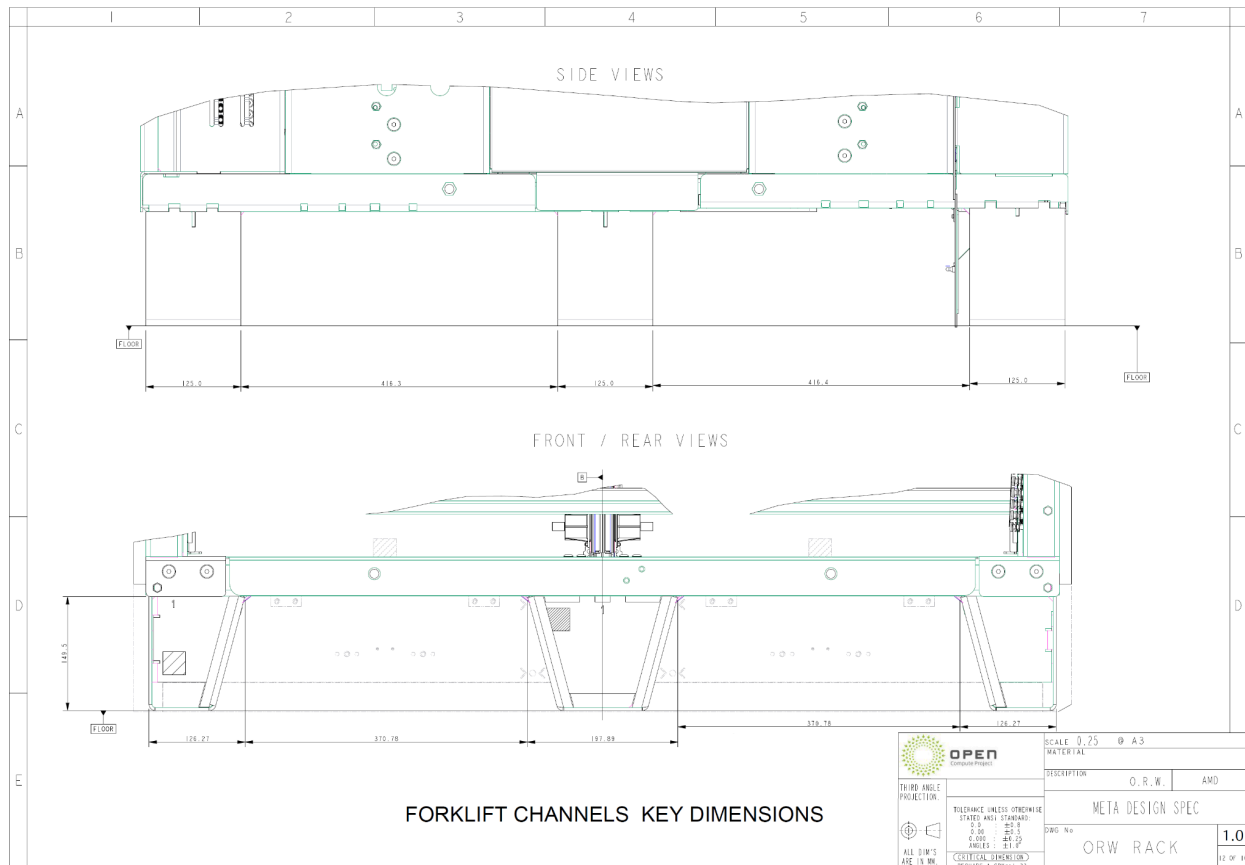


Figure 4.5.5.1 Frame base geometry

4.5.6. Floor Bolt Down Points

The frame SHALL include the following mounting points for bolting the rack to the floor. The mounting points SHALL support M18 bolt size.

Open Compute Project • Open Rack Wide (ORW) Meta Design Specification, V1.0.1

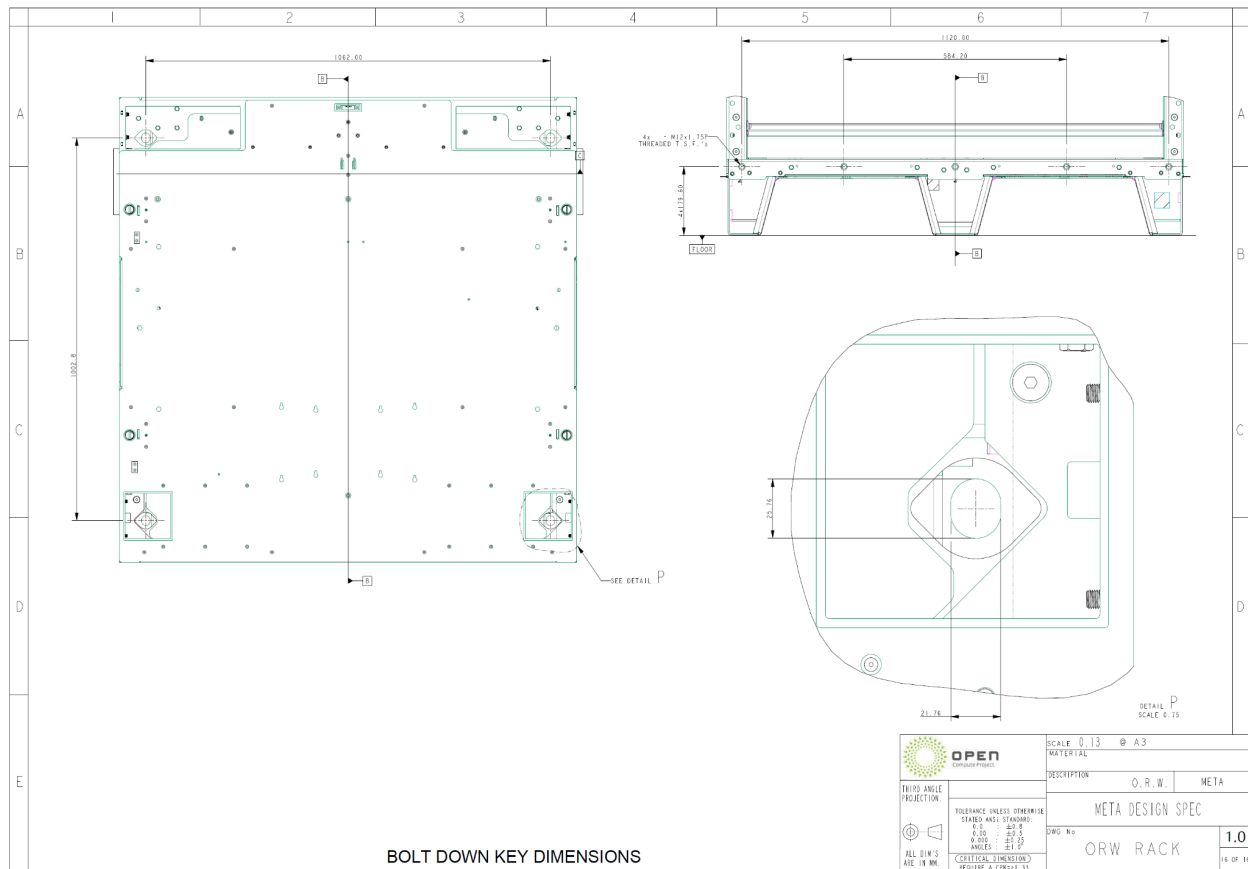


Figure 4.5.6.1 Frame floor bolt mounting points

4.5.7. Lift Points

Rack MAY have (4x) lift points on top of rack (M24x3 thread size) to allow provisions for lifting the frame with a crane and rigging. If included, lift points SHALL support the maximum specified payload with a 2.5 Safety Factor, verified by testing. Hoist ring specification is not in the scope of this specification and should be defined by the end user.

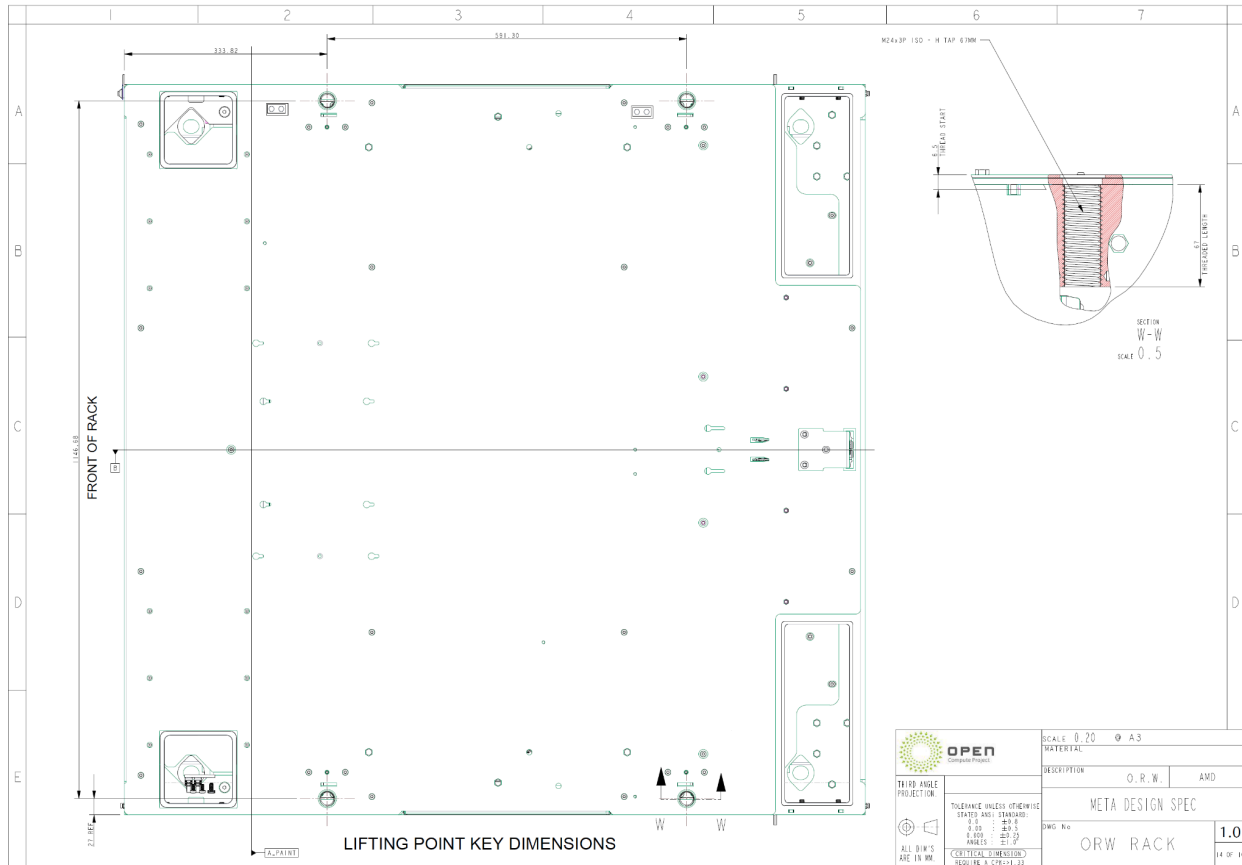
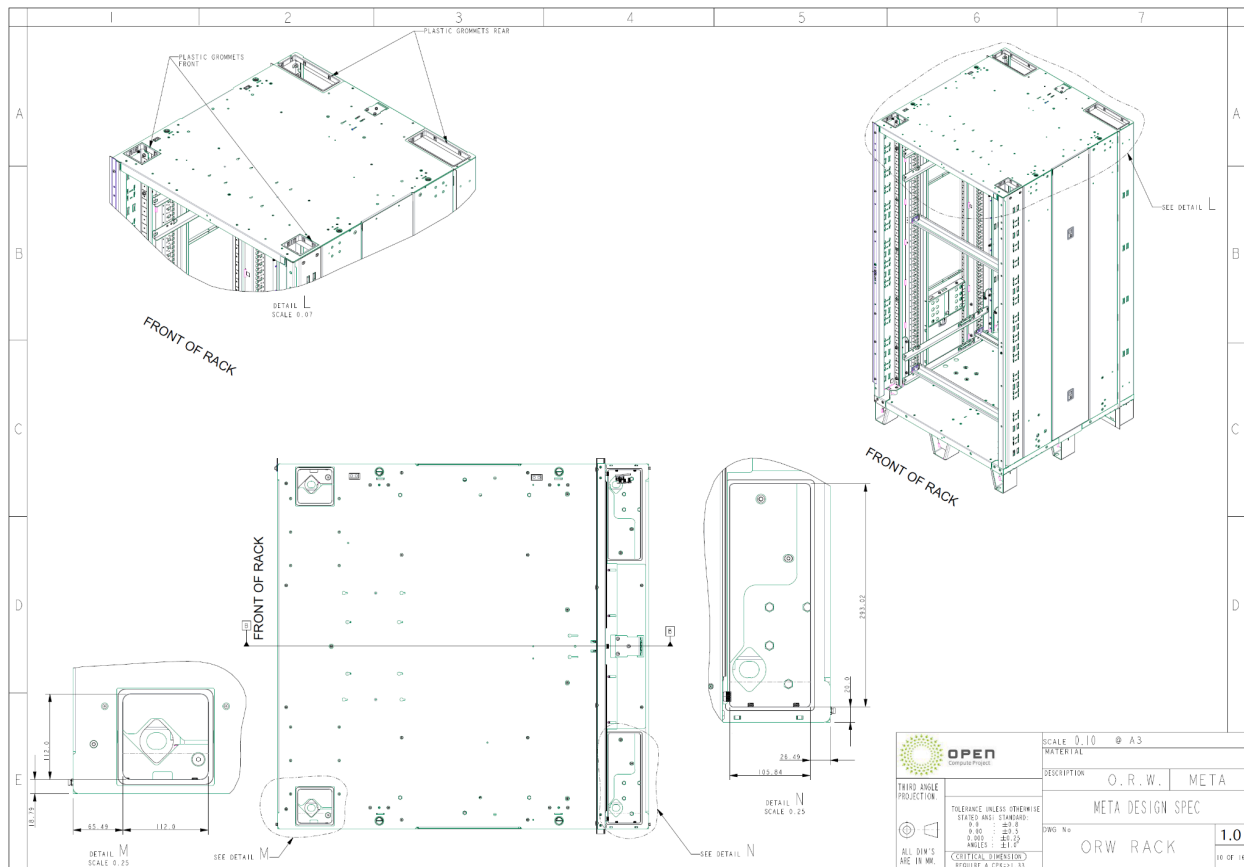


Figure 4.5.7.1 Frame lifting points in canopy

4.5.8. Cabling Grommets

- 4.5.8.1. Rack SHALL provide an exit hole in the bottom of the rack 25mm x15mm minimum in size under each cable zone in the front of the rack to allow for a data cable under the floor to pass to the cable zone.
- 4.5.8.2. To prevent cable damage, sharp edges and burrs SHALL be removed around cable routing areas. For areas where sharp edges cannot be removed, proper protection or guides SHALL be required to ensure cables do not make contact with the sharp edges.
- 4.5.8.3. Cables SHOULD be added and removed from the cable management system without tools.
- 4.5.8.4. Rack SHALL have openings at the top of the rack for cable pass through as shown in figure(s) below.



4.5.11. Vertical Cable Management Tray

Frame shall include front and rear cable management trays running vertically in all four corners of the frame.

4.5.12. Side Panels for Airflow Containment

Frame MAY contain an optional side panel accessory kit for airflow containment and/or security purposes. Side panels:

- 4.5.12.1. SHALL NOT protrude beyond of the overall frame width
- 4.5.12.2. SHALL require only 1 person to install and remove
- 4.5.12.3. MAY include tool-less installation and removal (preferred)
- 4.5.12.4. MAY include a security locking feature to prevent unauthorized access
- 4.5.12.5. MAY include mounting hardware using T30 Torx head driver style

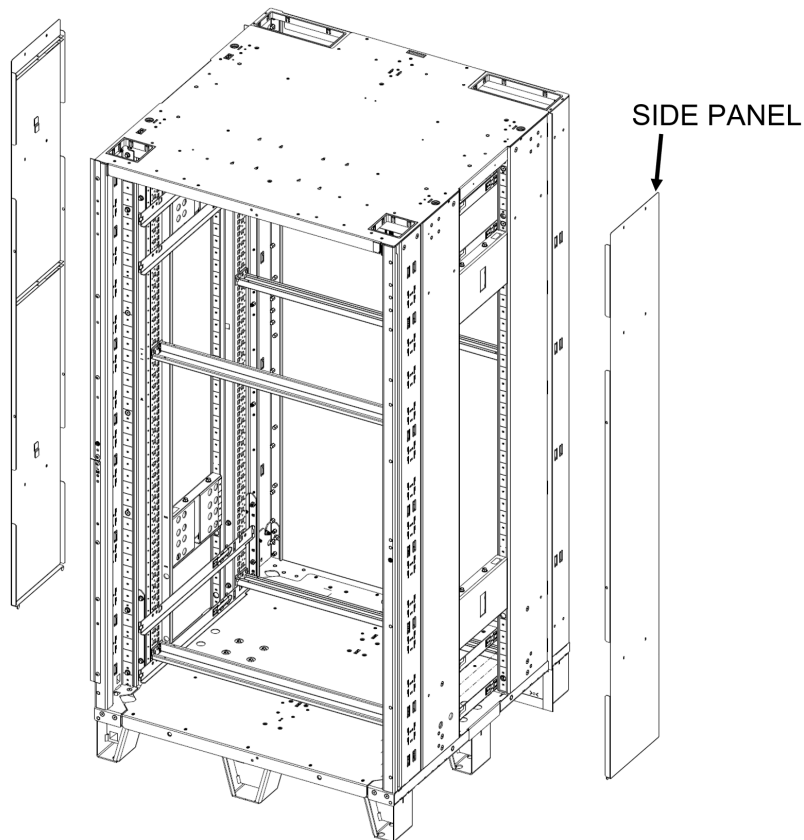


Figure 4.5.12.1 Side Panels accessory for airflow containment

4.5.13. Hot Aisle Containment

- 4.5.13.1. Frame SHALL provide mounting provisions for hot aisle containment (HAC) seals and gaskets to create a full 360° airflow seal around the rack.
- 4.5.13.2. Frame SHOULD provide side seal, top of rack containment (TORC) panel and bottom of rack containment (BORC) panel solutions for two HAC plane locations:
- one set of features located 42 inches (1068 mm) from the front face of the rack (default seal position)
 - one set of features located flush with the rear face of the rack (alternate seal position)

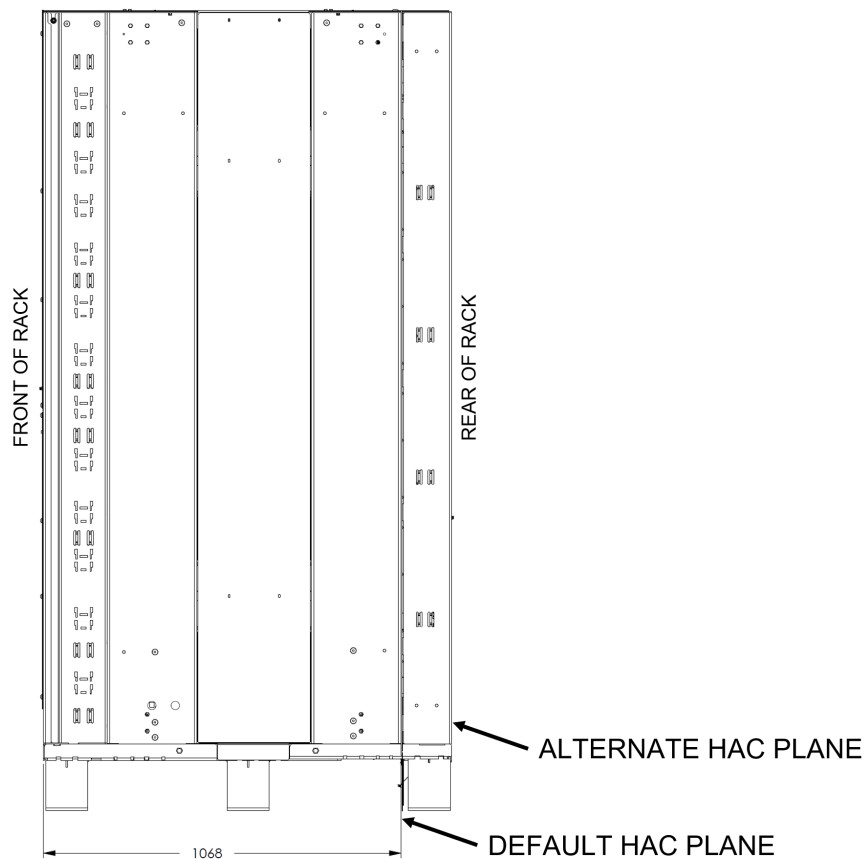


Figure 4.5.13.1 Hot Aisle Containment Plane Locations

4.5.14. IT Support Shelf (Rail)

The IT gear will optionally sit on a set of brackets that form a shelf. Reference 3D CAD provided in the additional design collateral included with this contribution. When developing IT gear, rail deflection and sag within the IT Gear enclosure should be considered to prevent interference with gear in adjacent OU positions.

- 4.5.14.1. SHALL provide a method of toolless mounting IT support shelves directly to the rack frame.
- 4.5.14.2. SHALL be no more than 1-OpenU tall and serviceable without removing or interfering with other IT support shelves or nearby IT chassis.
- 4.5.14.3. SHALL be able to install or remove from inside the rack frame.
- 4.5.14.4. SHALL support 125 kg per set under dynamic loads without taking any permanent deformation.
- 4.5.14.5. Static Load at end: SHALL support 78 kg static load applied over 25mm of leading edge of a pair of the support shelves installed in the rack without taking any permanent deformation.
- 4.5.14.6. Dynamic Load at end: SHALL support 50 kg dropped from 30mm height applied over 25mm of leading edge of a pair of the support shelves installed in the rack without taking any permanent deformation, 1 drop
- 4.5.14.7. Rail Pull-Out Force Testing: With IT Support Shelf installed in rack, pull on shelf in forward direction. The retention latch SHALL have a 625 N minimum pull out force. Test with both left and right versions as well as any rail design variations.

4.5.15. Cross Brace

The rack may include cross braces for stiffness in some configurations. Reference 3D CAD provided in the additional design collateral included with this contribution.

- 4.5.15.1. Cross-brace kit shall include all hardware required for installation.
- 4.5.15.2. T25 Torx driver may be used for installation.
- 4.5.15.3. IT gear may be removed from the rack to install or remove the brace.

- 4.5.15.4. Cross brace SHOULD NOT exceed 1-OpenU in height, but designs may vary depending on final rack configuration
- 4.5.15.5. Rack SHALL support cross-brace installation location in any OpenU position, both at the front and rear structural inner vertical members

4.5.16. Tool-less Front (Plastic) Cable Management Clip

The cable clip SHALL meet the following requirements. Reference 3D CAD provided in the additional design collateral included with this contribution:

- 4.5.16.1. Installation into front cable manager without tools.
- 4.5.16.2. Designed so that it can install forward or rearward facing.
- 4.5.16.3. Part to be molded in OCP green and per material outlined in drawing.

4.6. Electrical Grounding

4.6.1. Telco Ground Lug

- 4.6.1.1. Provide M5X0.8 threaded hole features as an electrical ground to mate with Data Center Telco Ground Lug as defined in FB PN: 18-000233.
- 4.6.1.2. Conductivity of the ground path SHALL be protected from rust and corrosion over the life of the product.
- 4.6.1.3. Green ground screws shall be provided with the rack and have a hex head 8mm across the flats.
- 4.6.1.4. Ground points SHALL be located per 3D CAD on the top surface of the rack for overhead grounding and the rear base surface to support underfloor grounding.

4.6.2. IT Gear Ground Path

- 4.6.2.1. Rack SHALL provide an electrically conductive path from the IT equipment in the rack to the rack grounding lug on the top of the rack. For the Meta implementation of ORv3, the ground path goes from the busbar → the frame → the ground lug.

- 4.6.2.2. This path SHALL NOT pass through any surfaces that are not protected from rust and corrosion such as un-plated surfaces.
- 4.6.2.3. Conductivity of the ground path SHALL be protected from rust and corrosion over the life of the product.

4.6.3. Ground Strap Connection

- 4.6.3.1. Ground Strap Connection (Banana plug) required at the front and rear of the rack to be used while servicing IT gear.
- 4.6.3.2. Location of ground strap connections shall not interfere with the removal and servicing of IT gear.
- 4.6.3.3. Ground connection points SHALL have a contrasting color to help visually identify the location.

4.7. Environmental & Regulatory

Below are safety and environmental compliance requirements that MAY be applicable to Open Rack

Items	Design phase	Compliance requirements	Reference
UL certification	Must provide a certification and report by the end of DVT	Rack must be certified by the UL either as a RU or Listed per UL 62368-1 3rd ed.	Rack including bus bar, rail, and frame must be certified together
CB Certification (Certificate Body)	Must provide a certification and report by the end of DVT	Rack must be certified under CB scheme, per IEC/EN62368-1 3rd ed.	Rack including bus bar, rail, and frame must be certified together
Safety critical components	Parts specification must be reviewed in EVT	Safety critical components (such as plastic parts, insulator) must be UL certified. Plastic parts must have min 94V0 flammability and its temperature rating must have sufficient margin (at least 50% higher than the worst case measured temperature).	
Sharp edge	Preliminary tests to be performed	Rack including rails shall not have any sharp edge	Pass/fail criteria and test methodology should be

	in EVT Formal certification tests to be done in DVT		referenced to the UL1439 standard.
Electrical bonding test	Preliminary tests to be performed in EVT Formal certification tests to be done in DVT	Rack must be assembled to have the ground bonding impedance (or voltage drop) less than 2.5V tested with 21Vdc/200A test meter, between any conductive metal part and protective earthing.	200A for 6 minutes with smaller than 2.5V voltage drop Use 12Vdc or 12Vac, and measure the voltage drop between any two worst case locations, referencing UL62368-1 std for protective conductor bonding test. -. Busbar cage with all 4 fasteners and rack -. Busbar cage with only lower fasteners and rack
Electrical energy - Accessibility	Preliminary tests to be performed in EVT Formal UL certification tests to be done in DVT	High voltage on the DC bus bar shall not be accessible when it is populated with IT gear. For unpopulated rails, the bus bar cover must be provided	Accessibility testing using the safety finger probe B specified in IEC 61032:1997
Busbar insulation material	Preliminary tests to be performed in EVT Formal UL certification tests to be done in DVT	Busbar plastic insulation material must have a sufficient temperature rating (above 200C at minimum) with minimum flammability 94V0. And the insulation material must be UL certified.	UL yellow cards must be provided to show the evidence of compliance.
Environmenta l compliance	Formal declaration to be provided by the end of PVT	Parts used in rack must meet environmental compliance requirements such as ROHS including no lead exemption, REACH, EPA SCIP., etc	RoHS Directive (2015/863/EU) REACH Regulation (EC) No 1907/2006; EPA 40 CFR751, SCIP regulation (Substances

			of Concern In articles as such or in complex objects (P roducts); Other detail environmental spec: FBPN: 18-000142
Relocation stability	Preliminary tests to be performed in EVT Formal UL certification tests to be done in DVT	The rack should be designed to meet the 10 degree tilt requirement (rack shall not tip over). Relocation stability test must be performed on both the fully populated rack with payload and empty rack to ensure that both complies with the 10degree tilt requirement.	UL62368-1
Static stability	Preliminary tests to be performed in EVT Formal UL certification tests to be done in DVT	Static stability test must be performed on the fully populated rack with payload to ensure that it complies with either the 10degree tilt requirement or 250N push requirement	UL62368-1
Stability test for crated rack	Preliminary tests to be performed in EVT Formal UL certification tests to be done in DVT	17° degrees, front/rear/side , rack in shipping crate, worst case condition	ASTM D6179

4.8. Prescribed Materials

All critical frame & accessory materials are detailed within the respective documentation in the additional design collateral provided with this submission.

4.9. References (recommended)

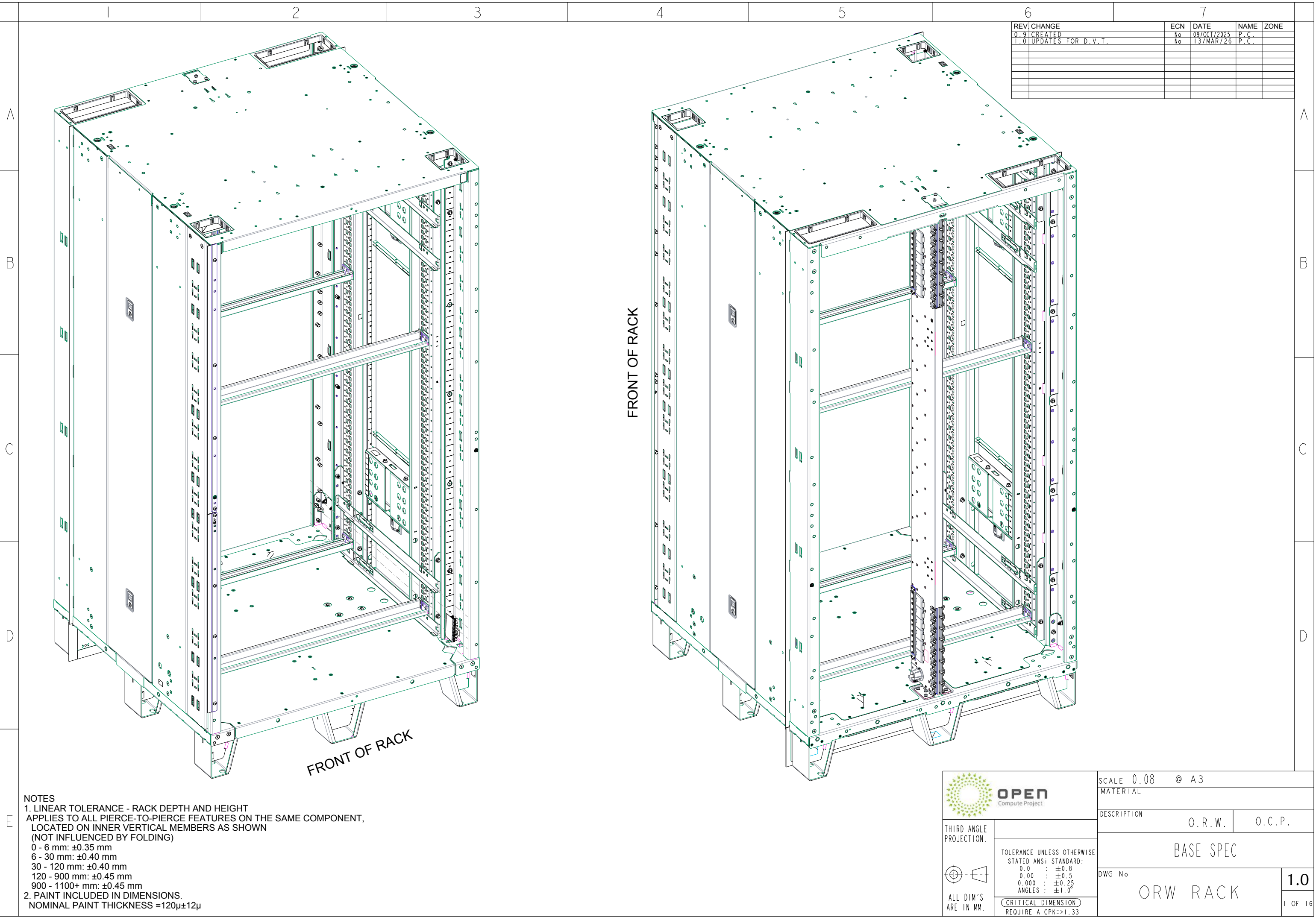
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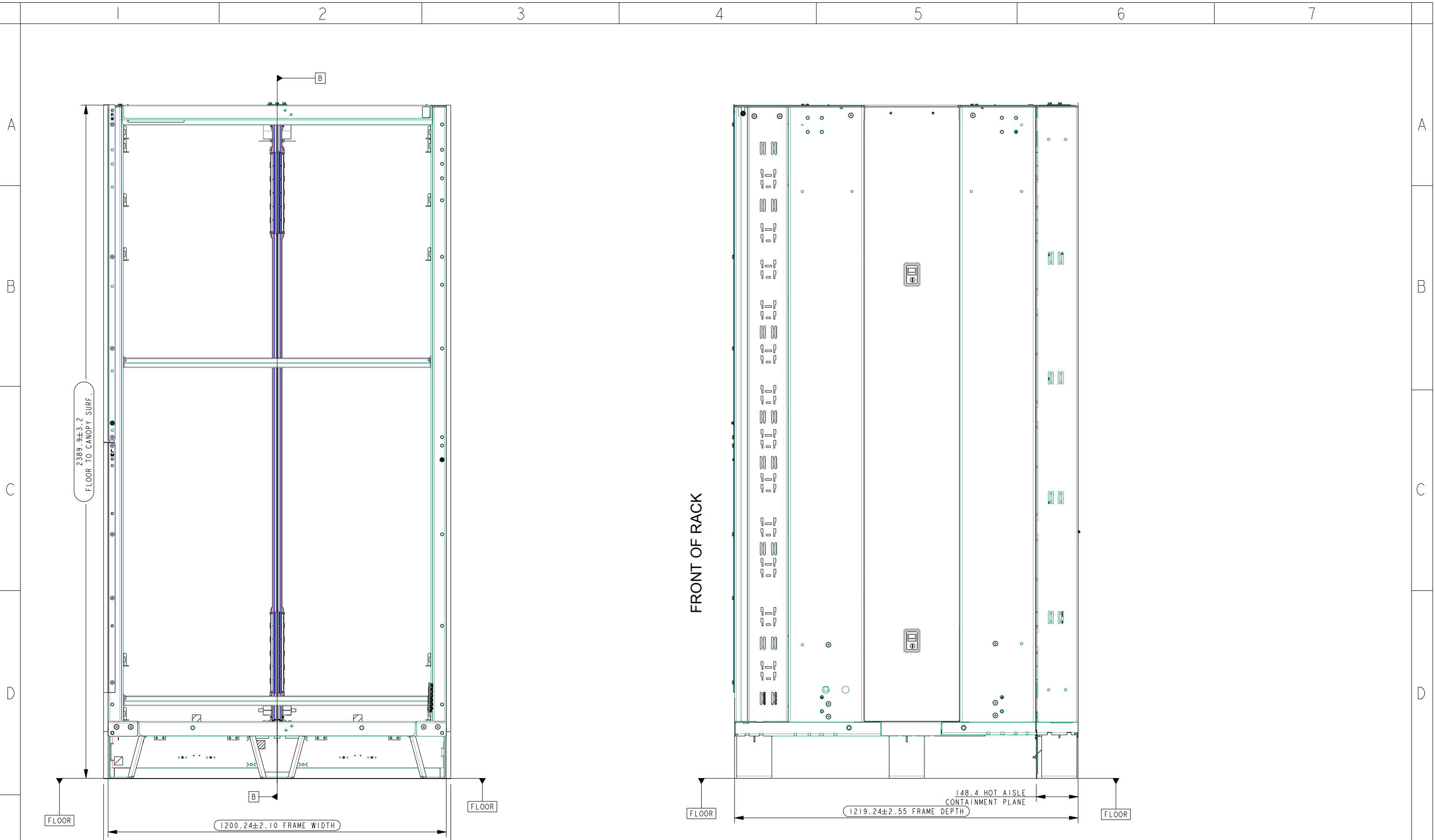
[1] OCP Open Rack Wide (ORW) Base Specification

- [2] Open Rack V3 Base Specification
 - [3] Meta Open Rack Frame V3 Specification
 - [4] Open Rack Liquid Cooled Busbar Specification (*In Progress*)
 - [5] Open Rack Wide IT Gear Design Guide (in progress)
 - [6] PBMC (Pivoting Blind Mate Coupling) Preliminary Design Basics ([link](#))
-

5. Appendix A - Full Resolution ORW Meta Design Specification Drawing Images

The following pages are full resolution pages of the drawing views found in the previous sections of this specification.

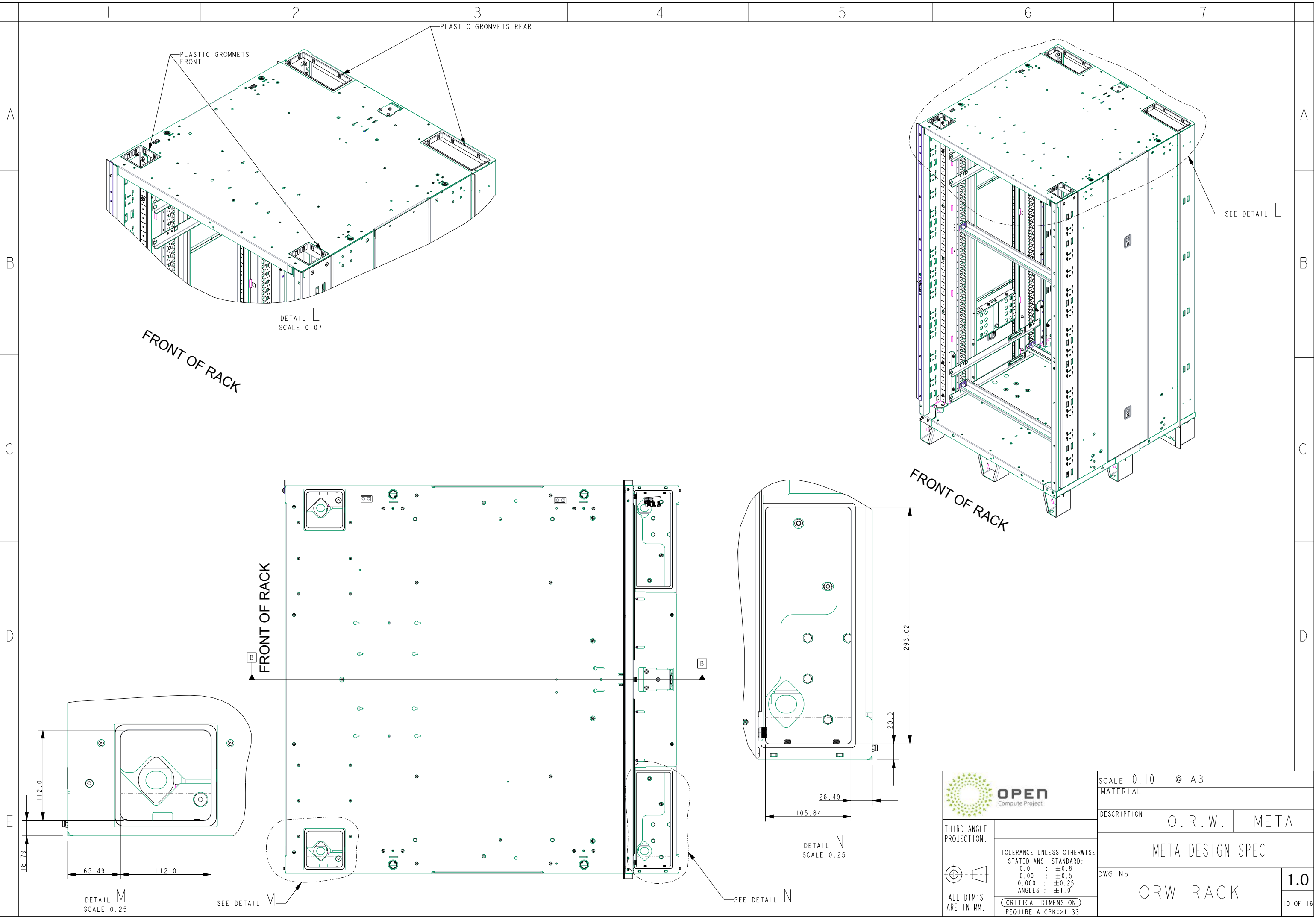




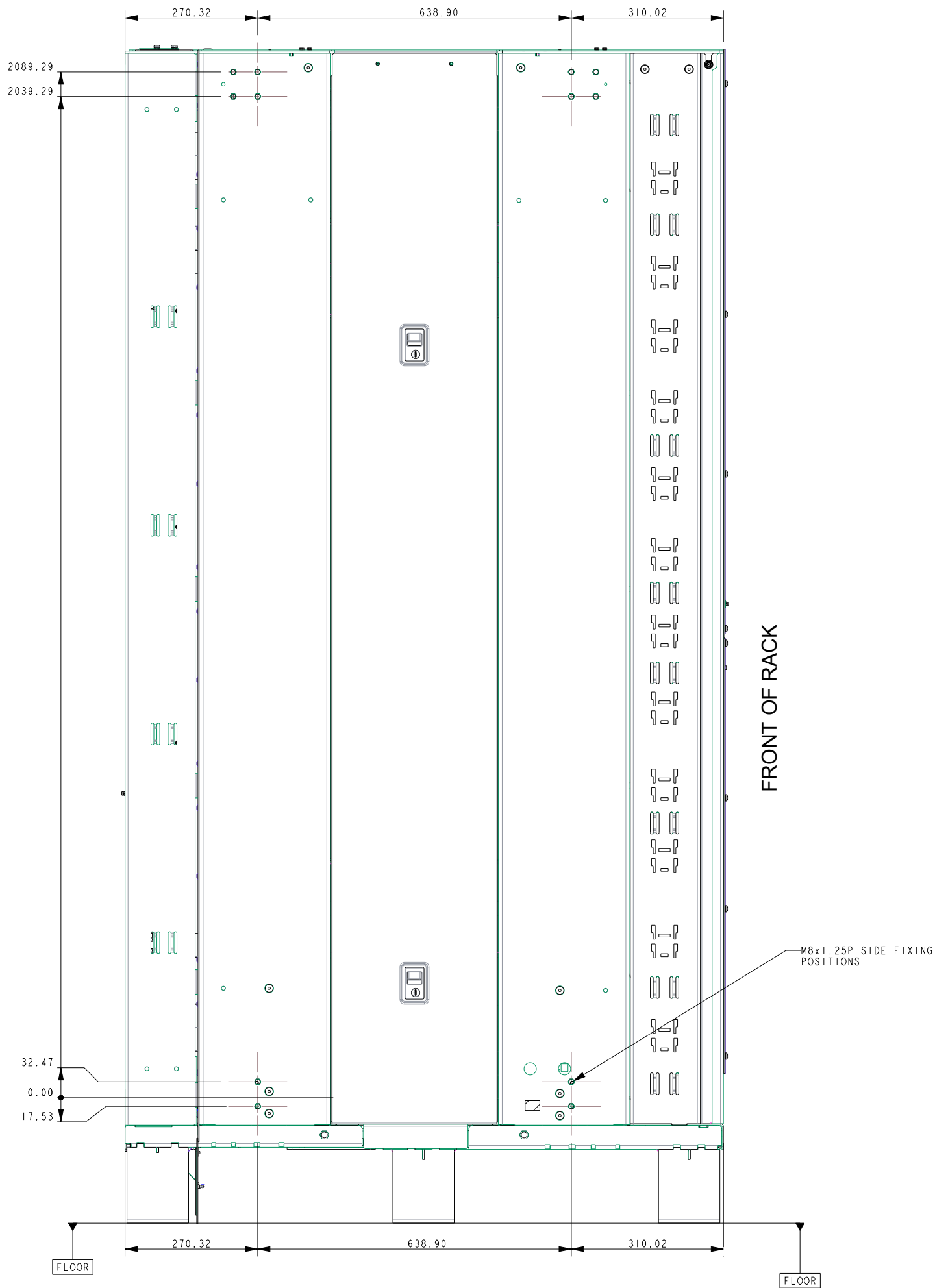
VIEW FROM RACK FRONT

FRONT OF RACK

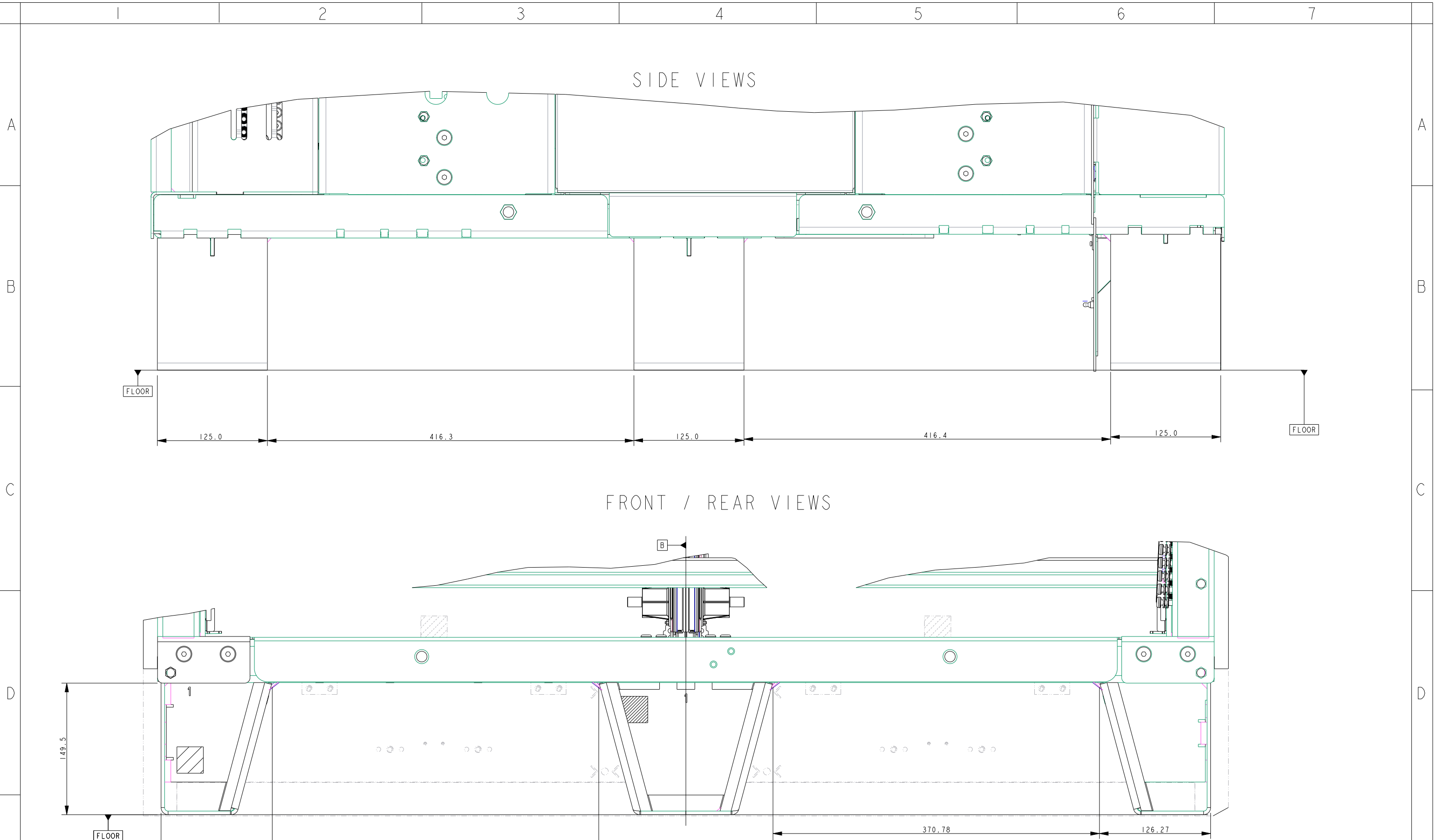
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		O.R.W.	AMD
	META DESIGN SPEC		
	DWG No		1.0
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD: 0.0 : ±0.8 0.00 : ±0.5 0.000 : ±0.25 ANGLES : ±1.0°		ORW RACK	
CRITICAL DIMENSION REQUIRE A CPK>1.33		9 OF 16	



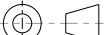
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DWG No		1.0
ORW RACK		10 OF 16

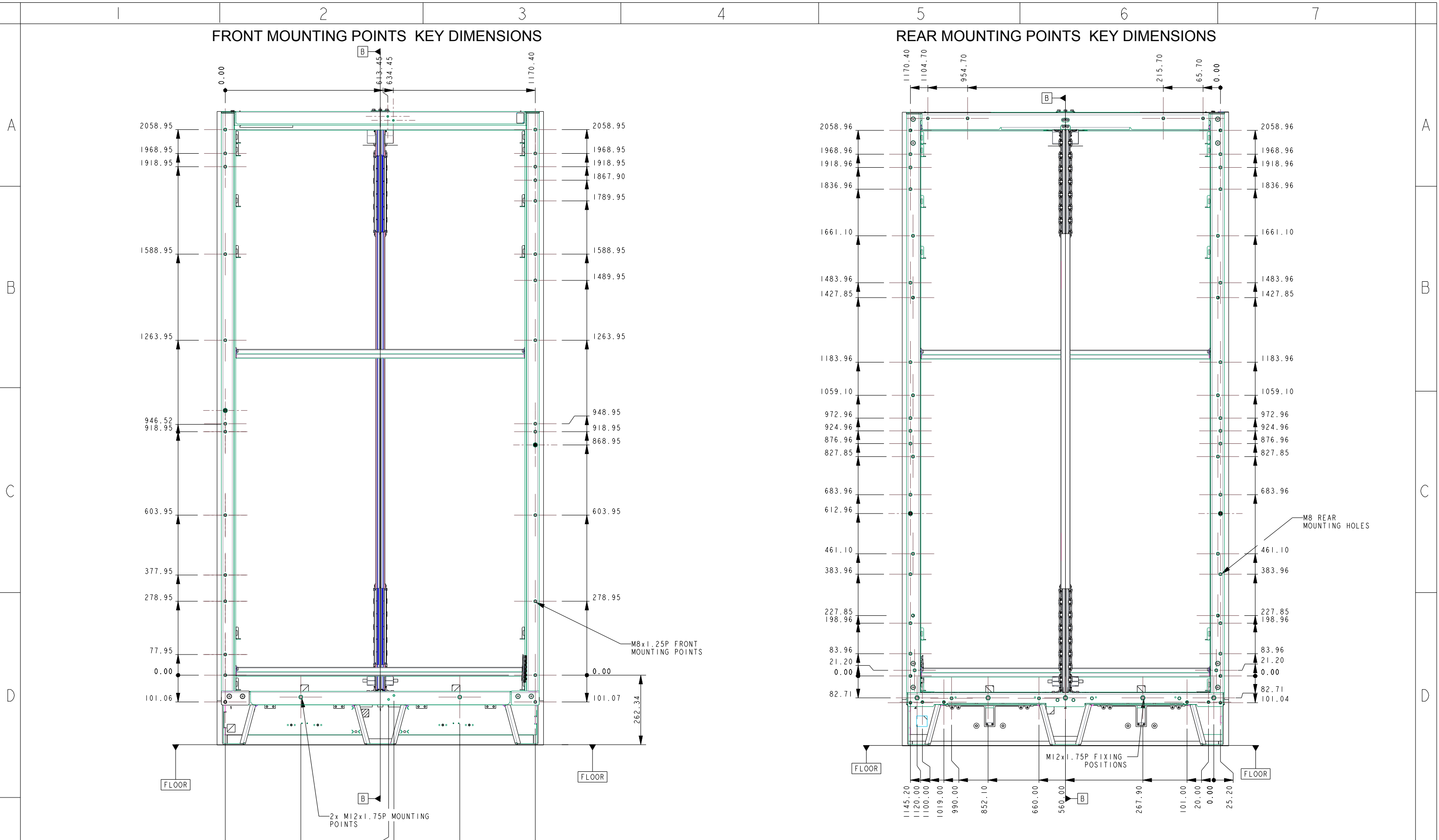


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	DWG No	1.0
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD: 0.0 : ±0.8 0.00 : ±0.5 0.000 : ±0.25 ANGLES : ±1.0° CRITICAL DIMENSION REQUIRE A CPK>1.33	ORW RACK	
		11 OF 16

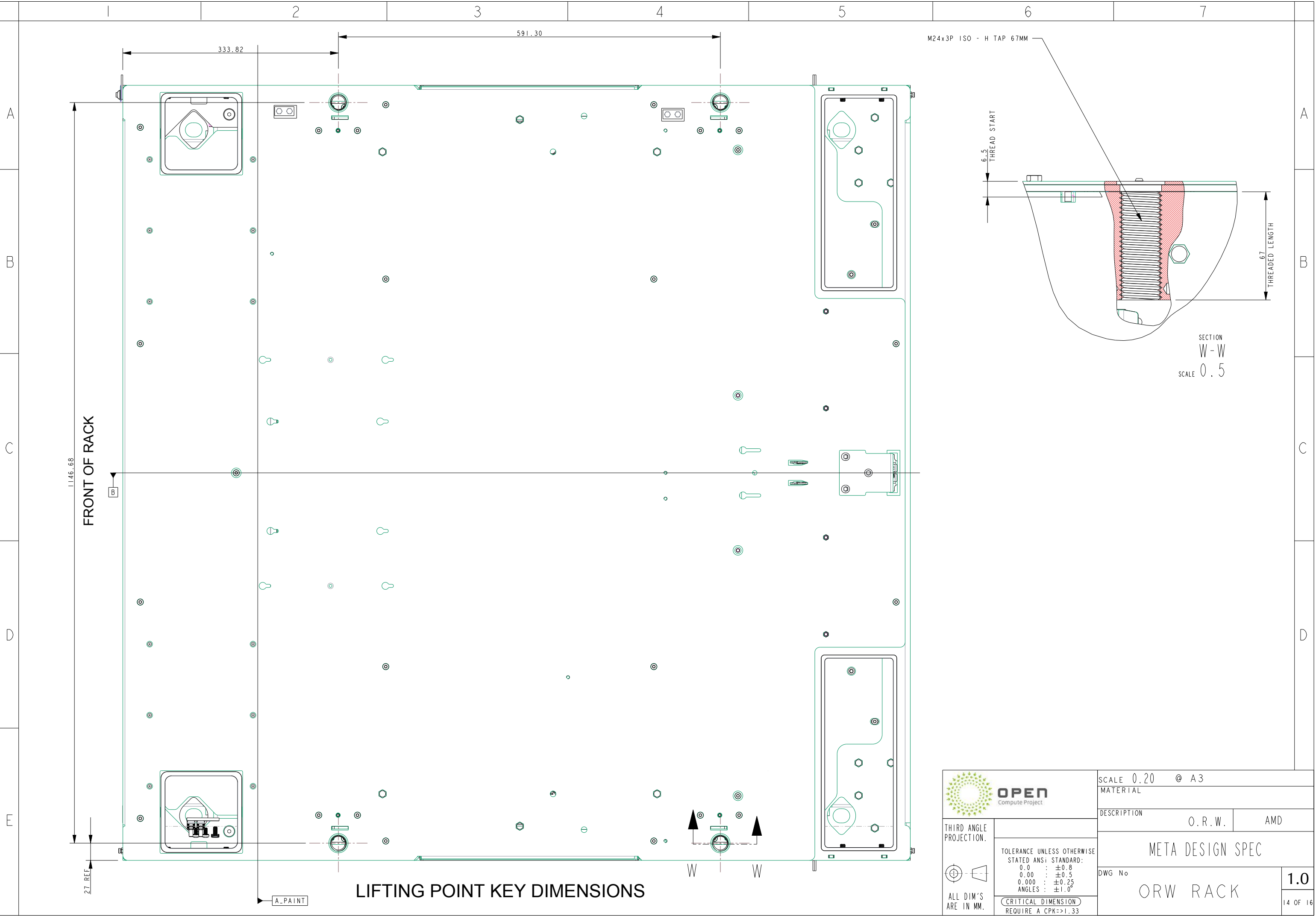


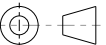
FORKLIFT CHANNELS KEY DIMENSIONS

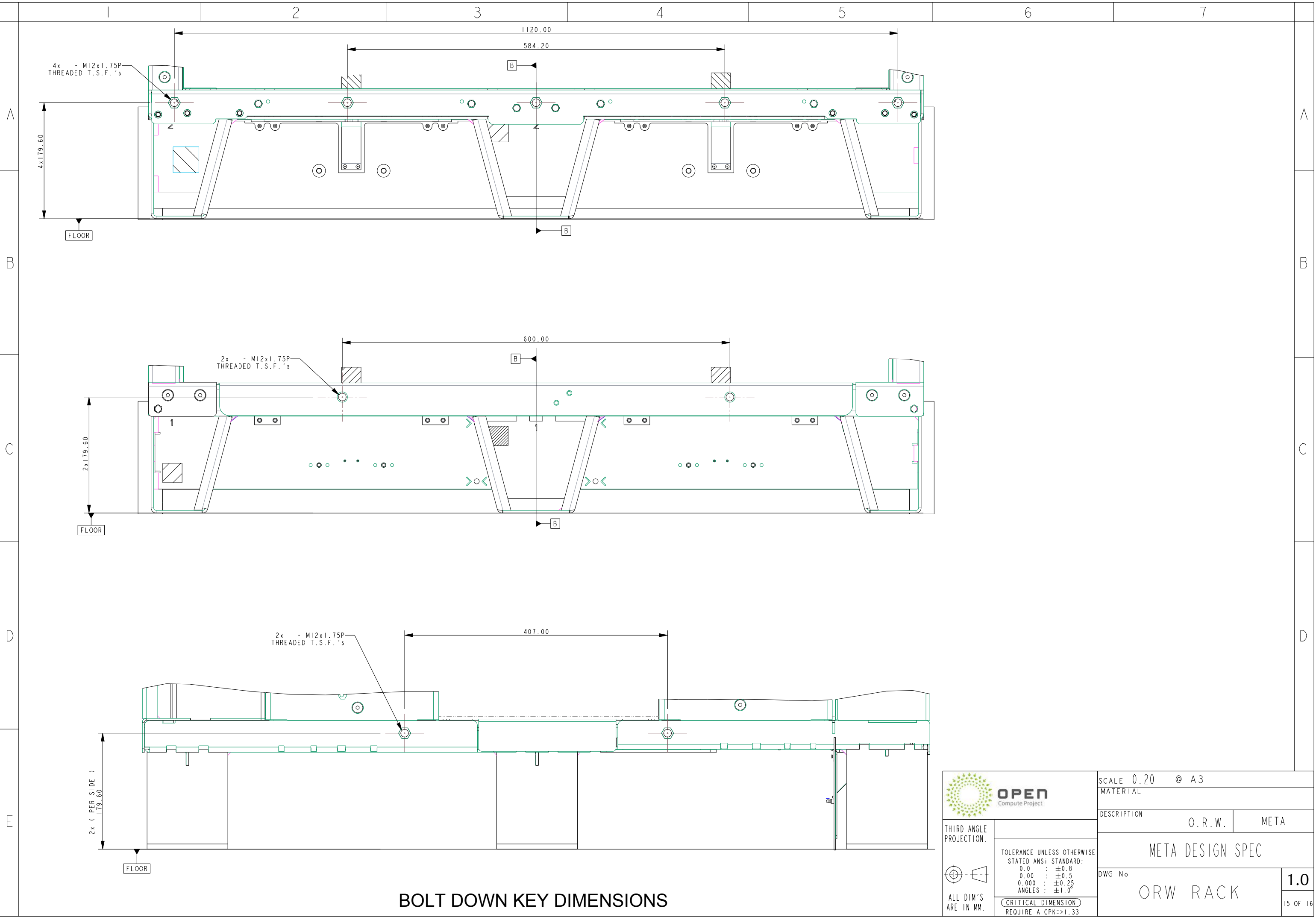
 <div>OPEN Compute Project</div>		SCALE 0.25 @ A3	
		MATERIAL	
<div>THIRD ANGLE PROJECTION.</div>  <div>ALL DIM'S ARE IN MM.</div>		DESCRIPTION	O.R.W. AMD
	META DESIGN SPEC		
	DWG No		
	ORW RACK		
	1.0		
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD: 0.0 : ±0.8 0.00 : ±0.5 0.000 : ±0.25 ANGLES : ±1.0°		12 OF 16	
<div>CRITICAL DIMENSION</div> <div>REQUIRE A CPK>1.33</div>			



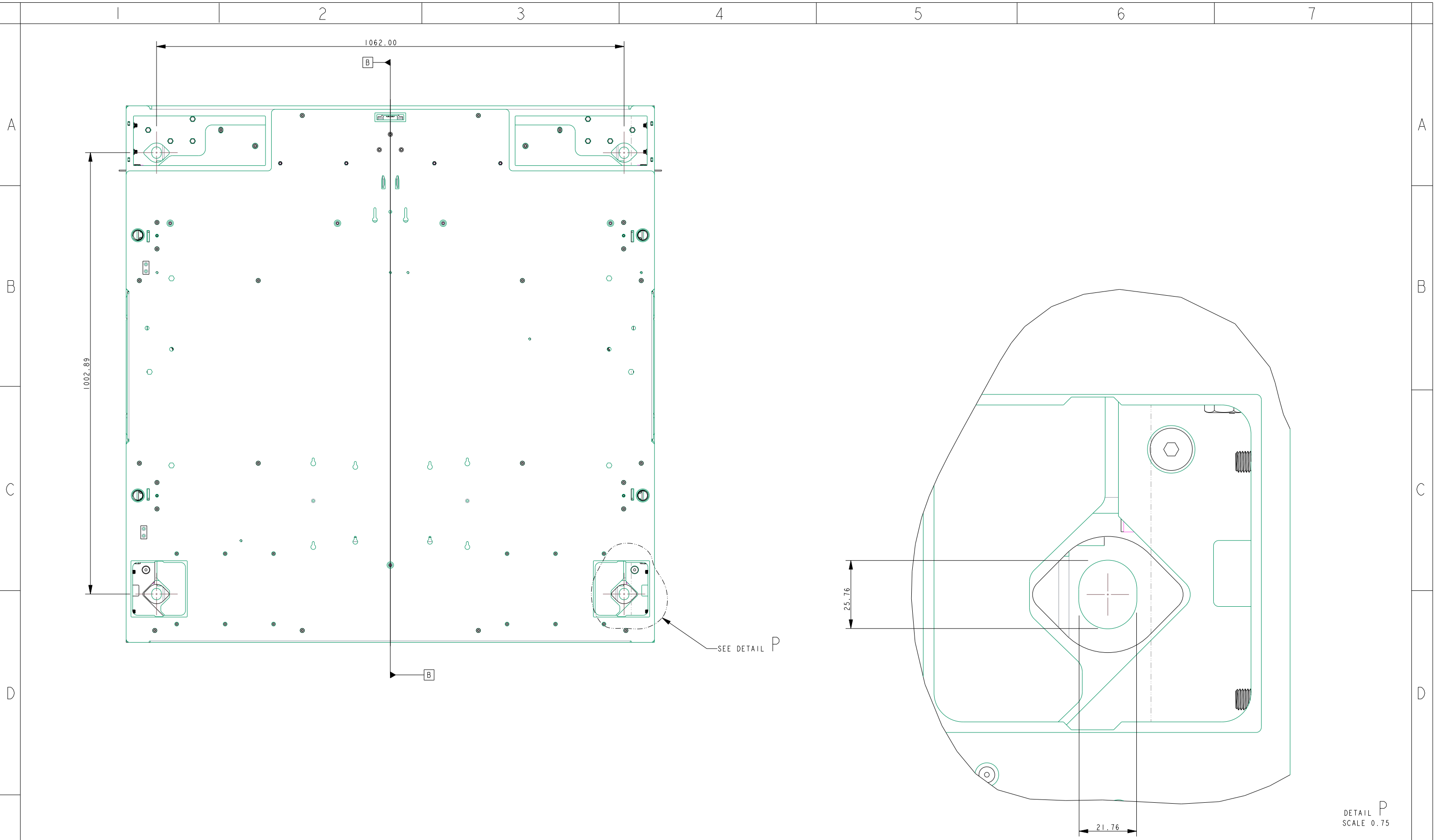
	SCALE 0.08 @ A3	
	MATERIAL	
THIRD ANGLE PROJECTION.  ALL DIM'S ARE IN MM.	DESCRIPTION	
	O.R.W. AMD	
	META DESIGN SPEC	
	DWG No	
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD: 0.0 : ±0.8 0.00 : ±0.5 0.000 : ±0.25 ANGLES : ±1.0° CRITICAL DIMENSION REQUIRE A CPK>1.33	ORW RACK	
		1.0
		13 OF 16



	SCALE 0.20 @ A3	
	MATERIAL	
<div>THIRD ANGLE PROJECTION.</div> <div></div> <div>ALL DIM'S ARE IN MM.</div>	DESCRIPTION	
	O.R.W. AMD	
	META DESIGN SPEC	
	DWG No	
ORW RACK		1.0
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD:		14 OF 16
0.0 : ±0.8		
0.00 : ±0.5		
0.000 : ±0.25		
ANGLES : ±1.0°		
CRITICAL DIMENSION REQUIRE A CPK>1.33		



	SCALE 0.20 @ A3	
	MATERIAL	
THIRD ANGLE PROJECTION.  ALL DIM'S ARE IN MM.	DESCRIPTION	
	O.R.W.	META
	META DESIGN SPEC	
	DWG No	
TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD: 0.0 : ±0.8 0.00 : ±0.5 0.000 : ±0.25 ANGLES : ±1.0° <u>CRITICAL DIMENSION</u> REQUIRE A CPK>1.33	ORW RACK	
		1.0
		15 OF 16



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OPEN

Compute Project

THIRD ANGLE PROJECTION.



ALL DIM'S ARE IN MM.

TOLERANCE UNLESS OTHERWISE STATED ANSI STANDARD:

0.0 : ±0.8

0.00 : ±0.5

0.000 : ±0.25

ANGLES : ±1.0°

CRITICAL DIMENSION

REQUIRE A CPK>1.33

SCALE 0.13 @ A3

MATERIAL

DESCRIPTION

O.R.W.

META

META DESIGN SPEC

DWG No

ORW RACK

1.0

16 OF 16

BOLT DOWN KEY DIMENSIONS