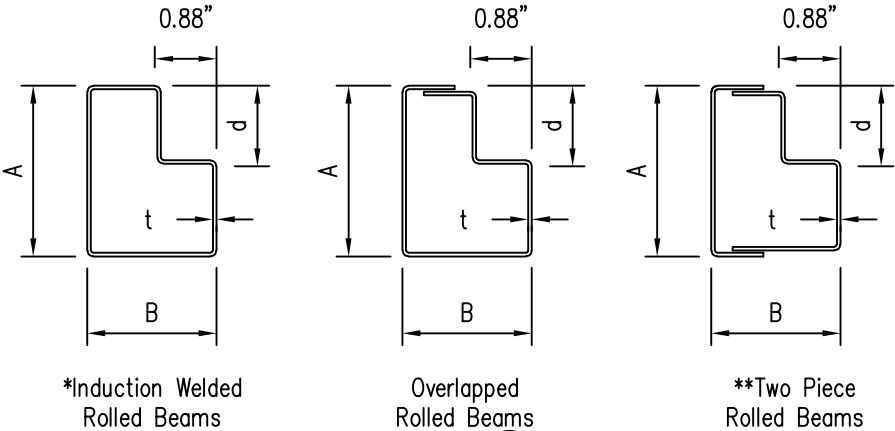
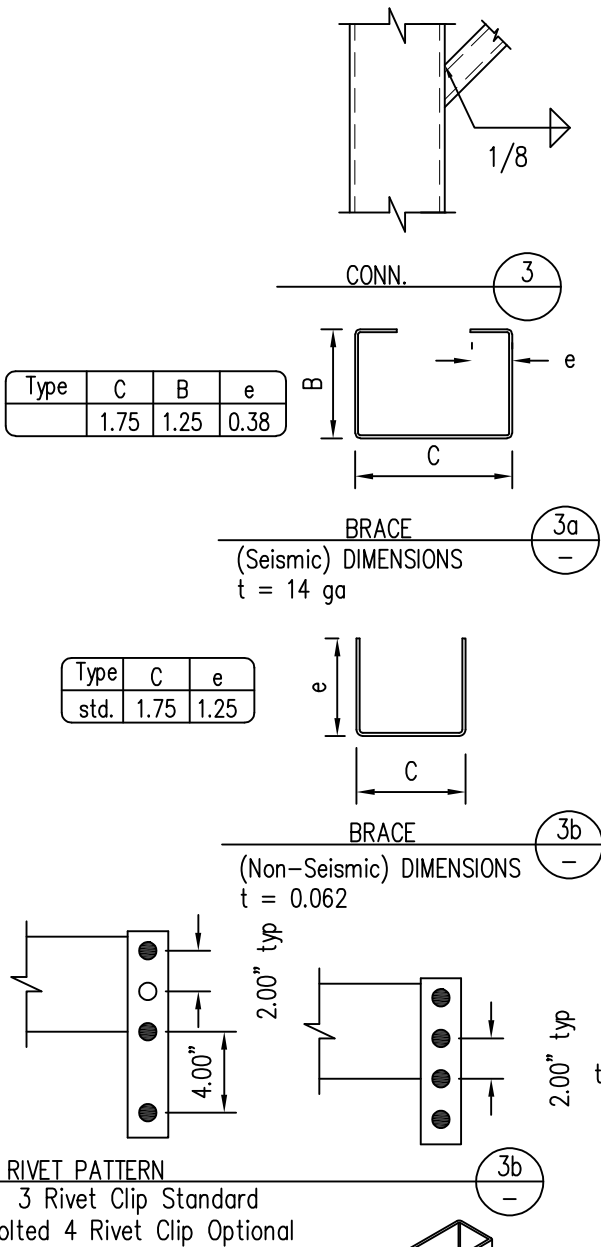


Type	A	B	d	t	Sx	Ix
RB-L-300*	3.00	2.50	1.63	0.066	0.49	0.80
RB-S-300*	3.00	2.50	1.63	0.075	0.55	0.90
RB-L-350	3.50	2.50	1.63	0.066	0.72	1.29
RB-S-350	3.50	2.50	1.63	0.075	0.82	1.45
RB-R-350	3.50	2.50	1.63	0.085	0.93	1.64
RB-L-355*	3.55	2.50	1.63	0.066	0.63	1.20
RB-S-355*	3.55	2.50	1.63	0.075	0.72	1.36
RB-L-400	4.00	2.50	1.63	0.066	0.88	1.78
RB-S-400	4.00	2.50	1.63	0.075	1.00	2.01
RB-R-400	4.00	2.50	1.63	0.085	1.13	2.27
RB-L-410*	4.10	2.50	1.63	0.066	0.79	1.72
RB-S-410*	4.10	2.50	1.63	0.075	0.90	1.95
RB-L-450	4.50	2.50	1.63	0.066	1.06	2.39
RB-S-450	4.50	2.50	1.63	0.075	1.19	2.70
RB-R-450	4.50	2.50	1.63	0.085	1.35	3.05
RB-L-465*	4.65	2.50	1.63	0.066	0.97	2.36
RB-S-465*	4.65	2.50	1.63	0.075	1.10	2.68
RB-L-500	5.00	2.50	1.63	0.066	1.24	3.10
RB-S-500	5.00	2.50	1.63	0.075	1.40	3.51
RB-R-500	5.00	2.50	1.63	0.085	1.58	3.97
RB-L-550	5.50	2.50	1.63	0.066	1.43	3.94
RB-S-550	5.50	2.50	1.63	0.075	1.62	4.46
RB-R-550	5.50	2.50	1.63	0.085	1.82	5.05
RB-L-600*	6.00	2.50	1.63	0.066	1.47	4.54
RB-S-600*	6.00	2.50	1.63	0.075	1.66	5.15
RB-R-600*	6.00	2.50	1.63	0.085	1.84	5.71
RB-L-650*	6.50	2.50	1.63	0.066	1.67	5.59
RB-S-650*	6.50	2.50	1.63	0.075	1.88	6.29
RB-R-650*	6.50	2.50	1.63	0.085	2.15	7.19

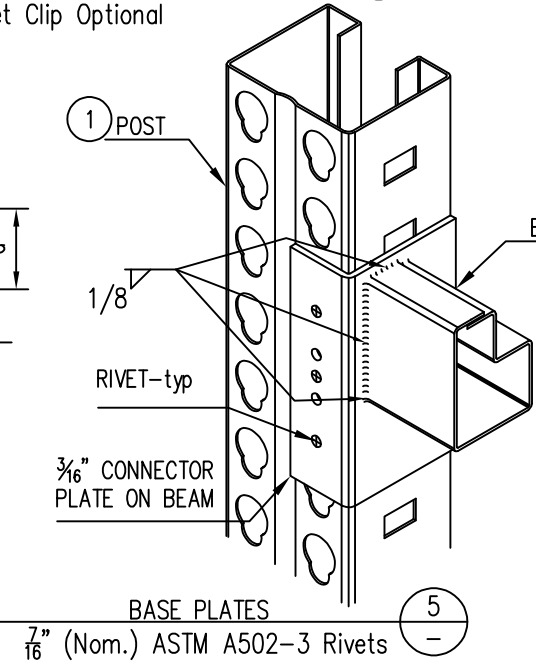
Welding to be done by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.



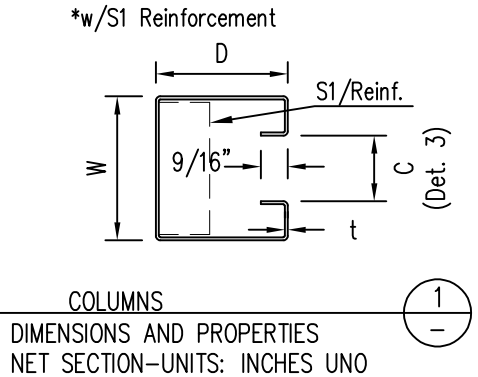
BEAMS
DIMENSIONS AND PROPERTIES
UNITS: INCHES UNO



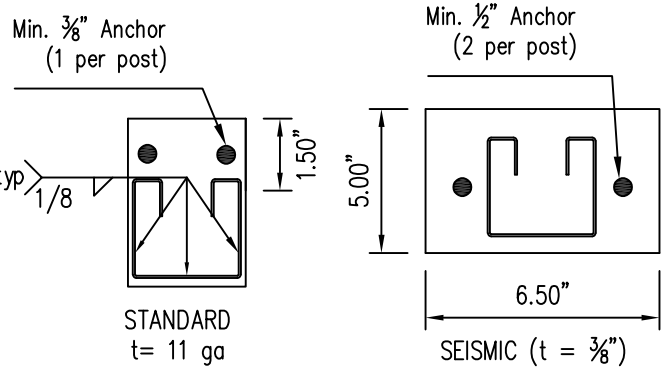
RIVET PATTERN
3 Rivet Clip Standard
Bolted 4 Rivet Clip Optional



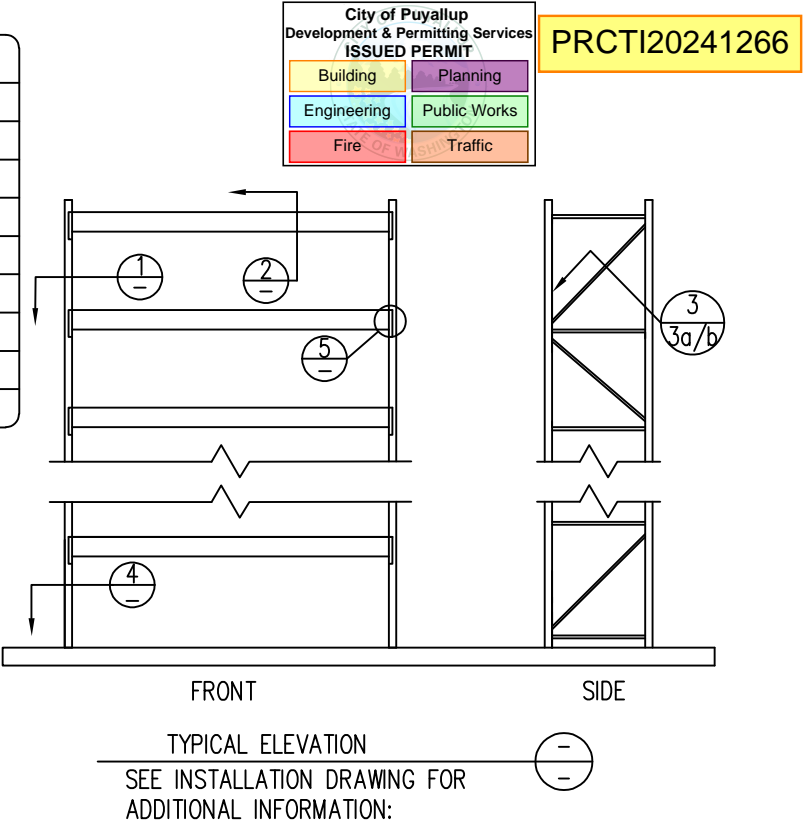
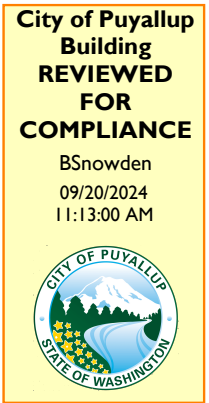
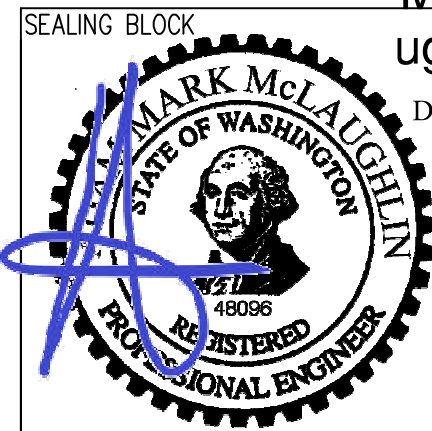
Type	W	D	t	As	Sx	rx	ry
UF-S-32I	3.00	2.75	0.075	0.56	0.55	1.21	0.84
UF-S-33I	3.00	2.75	0.075	0.64	0.65	1.21	0.98
*UF-S-33I	3.00	2.75	0.075	1.10	1.01	1.14	0.81
UF-R-33I	3.00	2.75	0.087	0.73	0.73	1.20	0.97
UF-M-33I	3.00	2.75	0.100	0.82	0.82	1.20	0.96
UF-Y-33I	3.00	2.75	0.110	0.91	0.89	1.19	0.95
UF-H-33I	3.00	2.75	0.125	1.03	1.00	1.18	0.94
UF-M-43I	4.00	2.75	0.100	0.92	1.21	1.59	1.00
UF-H-43I	4.00	2.75	0.125	1.12	1.45	1.58	0.99



COLUMNS
DIMENSIONS AND PROPERTIES
NET SECTION-UNITS: INCHES UNO



BASE PLATES
COMMON SIZE ONLY
SEE INSTALLATION DRAWINGS
FOR CUSTOM SIZES AND
ANCHORAGE



Review anchor product's ICC-ES Report and install the product per the report. If the report states special inspection(s) are required - the final special inspection report must be on site during City inspections.

GENERAL NOTES:

- This drawing shows standard details of the rack product line only. See engineer approved installation drawings CW-10 (same job number) for components used, special details, arrangement, dimensions, and additional information.
- The installation drawings govern over this drawing.
- MATERIAL
Steel - ASTM A1008 Grade 55 UNO
Welding electrodes - AWS E70-XX (all welds single pass fillet welds designed at 50% stress levels).
- Concrete Anchors shall be ICC approved types for installation into cracked concrete. e.g.:
Simpson Strong Tie Strong bolt (#3037), Titen (#2713)
DeWalt / Powers/ Rawl Power Stud+SD2 (#2502), Atomic (#3067) DeWalt Screw-Bolt+ Screw Anchor (#3889)
Hilti Kwik Bolt HSL 3 (#1545), Kwik Bolt TZ (#1917), Kwik Bolt TZ2 (#4266)
HUS-EZ (#3027)

Refer to drawing CW-10 for anchoring embedment.
Special inspection are not required unless demanded by the building authority. Contractor shall determine any inspection requirements prior to anchor installation.

STRUCTURAL DESIGN ONLY

Gary K. Munkelt & Associates, LLC
Structural Consulting Engineers
121 East Chestnut Street, Suite 101
Souderton, PA 18964
Phone 215-855-8713

DATE 09/25/2024
DRAWN CMS
CHECKED BJM
APPROVED

NO CHANGES: REISSUED 09/25/24

COSTCO #660 - PUYALLUP
1201 39TH STREET
PUYALLUP, WA 98373
RIDG-U-RAK
STORAGE RACKS

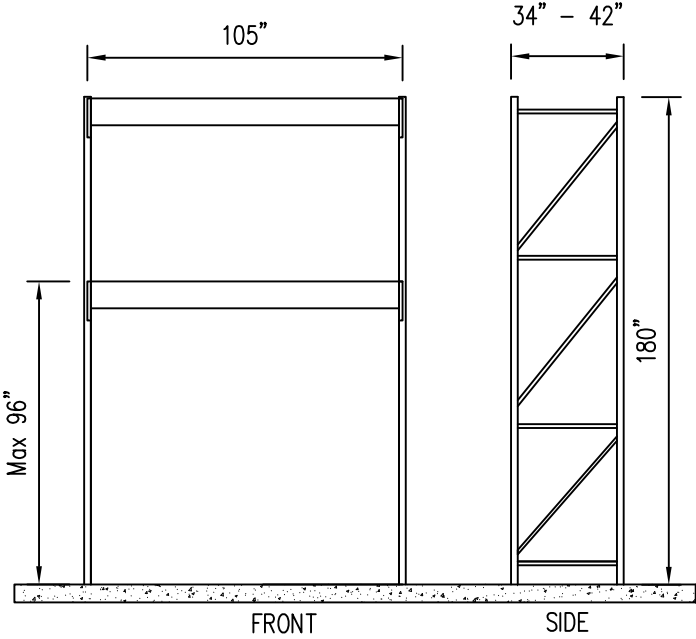
GKM JOB #
2404131 R2
DRAWING #
RU-9

GENERAL NOTES:

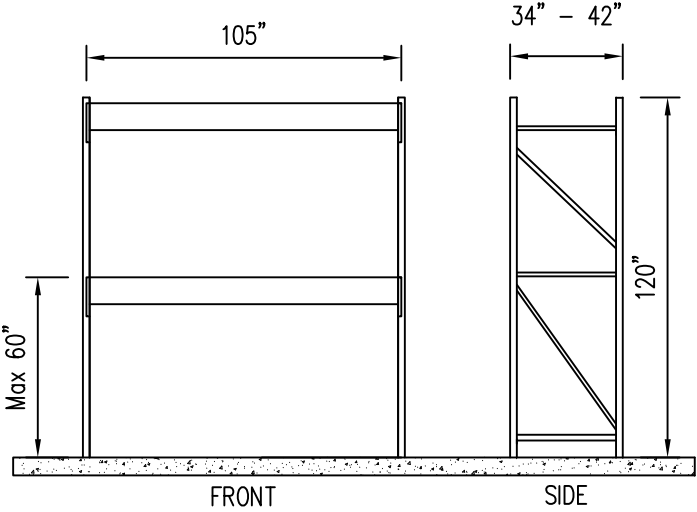
1. This drawing shows typical unit material and geometry. See Price/Costco fixture plan RP - 1 for location within store. See Gary K. Munkelt & Associates, LLC Drawings RU-9 for details of the rack components.
2. ARRANGEMENT
Not all configurations may be installed.
A unit may have any number of beam levels if the loads per bay and the maximum spacings shown are not exceeded
3. MATERIAL
Components shown are minimum sizes.
Larger/heavier components may be substituted.
4. ANCHORAGE
Use ICC approved anchors per RU-9 UNO
Use minimum embedment of 4.5" for Wedge Type anchors for 2 & 3 Level Racks (For Screw Type anchors use a minimum embedment of 5". (Minimum embedment = Top of Concrete Slab to Bottom Tip of Anchor)

5. PERIODIC SPECIAL INSPECTIONS - are not required for post installed anchors unless the City of Puyallup, WA demands an inspection.

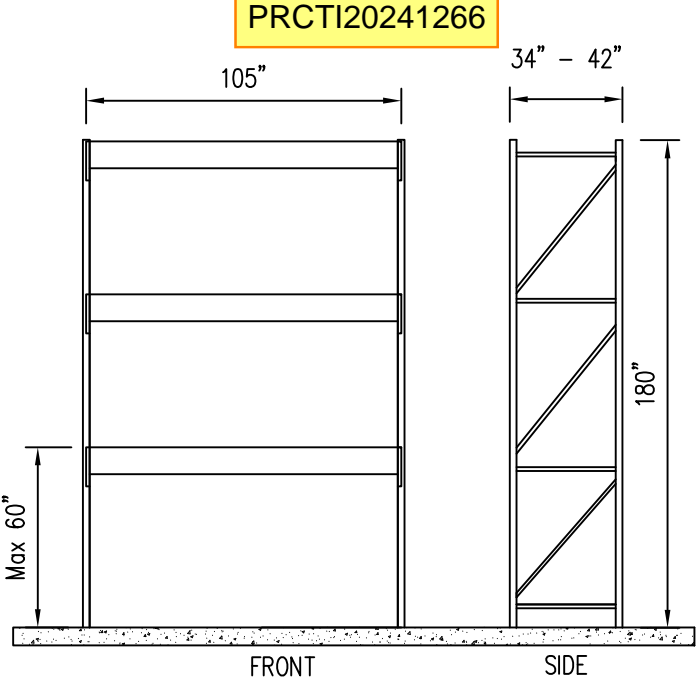
Review anchor product's ICC-ES Report and install the product per the report. If the report states special inspection(s) are required - the final special inspection report must be on site during City inspections.



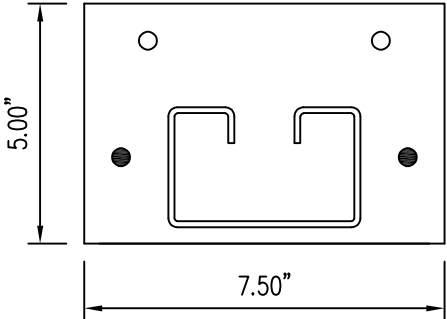
MERCHANDISE DISPLAY RACK
Upright: Min. UF-H-33I
Seismic Footplate (7.5" x 5" x 3/8")
Beams:
RB-S-500
Maximum loads:
5,000 lbs per level
10,000 lbs per bay



2 LEVEL RACKS
Upright: Min. UF-H-33I
Seismic Footplate (7.5" x 5" x 3/8")
Beams:
RB-S-500
Maximum loads:
5,000 lbs per level
10,000 lbs per bay



3 LEVEL RACKS
Upright: Min. UF-H-33I
Seismic Footplate (7.5" x 5" x 3/8")
Beams:
RB-S-500
Maximum loads:
5,000 lbs per level
15,000 lbs per bay



- Anchor Locations
- Preferred
 - Alternate

Alternate holes shall only be used when anchor cannot be set in preferred hole, There shall be at least one anchor on the left and right side of the post as viewed from the front.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

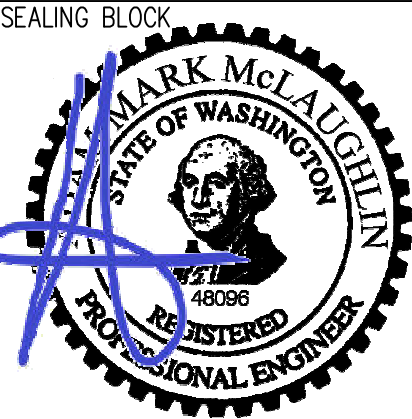
Full sized legible color plans are required to be provided by the permittee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

Adam
McLa
ughlin

Digitally signed by Adam McLaughlin
DN: C=US, S= Pennsylvania, L=North Wales, O="Gary K. Munkelt and Associates, LLC", CN= Adam McLaughlin, E= adam.mclaughlin@gkmassoc.com
Reason: I am the author of this document
Location:
Date: 2024.09.26 14:27:48 -04'00'
Foxit PDF Editor Version: 12.0.0

DATE SIGNED: 9/26/2024



City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

ANCHORAGE

SUPERCEDES RU-9 FOR 180" RACKS

STRUCTURAL DESIGN ONLY

Gary K. Munkelt & Associates, LLC
Structural Consulting Engineers
121 East Chestnut Street, Suite 101
Souderton, PA 18964
Phone 215-855-8713

DATE 09/25/2024
DRAWN CMS
CHECKED BJM
APPROVED

COSTCO #660 – PUYALLUP
1201 39TH STREET
PUYALLUP, WA 98373
STORAGE RACKS
TYPICAL CONFIGURATIONS

GKM JOB #
2404131 R2
DRAWING #
CW-10

NO CHANGES: REISSUED 09/25/24