STEEP-SLOPE METAL ROOFING SHOP DRAWING SUBMITTAL

Section 07 22 00, 07 26 00, 07 31 00, 07 41 13, 07 62 00, 07 72 53

PROJECT	**Sample Warehouse, standing seam roof**
ADDRESS	
OWNER	**Sample Logistics LLC**
ARCHITECT	
INTERIOR DESIGN	
GENERAL CONTRACTOR	
SUBMITTED BY	
SPEC SECTION	**07 22 00, 07 26 00, 07 31 00, 07 41 13, 07 62 00, 07 72 53**
ITEM	
SUBMITTAL NO.	**revision 0**
DATE	**11/5/2026**

REVISIONS

REV 0 11/5/2026	**Issued for review (submittal)**

SHEET INDEX

R-0	Cover sheet and sheet index
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GENERAL NOTES

1. Verify all dimensions, slopes and penetrations in the field. Report discrepancies to the architect and the general contractor.
2. Roof wind zones and snow retention are flagged for review; not a certification.
3. Deck, purlins and the structure by others.

NOT AN ENGINEERED DESIGN. Verify every dimension and condition in the field. The stamp areas are for the reviewers; the roofing contractor does not fill them in.

ARCHITECT / ENGINEER REVIEW STAMP

Reviewer's stamp area

CONTRACTOR'S REVIEW

Reviewed by / date

PREPARED BY

PROJECT
SAMPLE WAREHOUSE, STANDING SEAM ROOF

OWNER
Sample Logistics LLC

SPEC SECTION
07 22 00, 07 26 00, 07 31 00, 07 41 13, 07 62 00, 07 72 53

NOTICE
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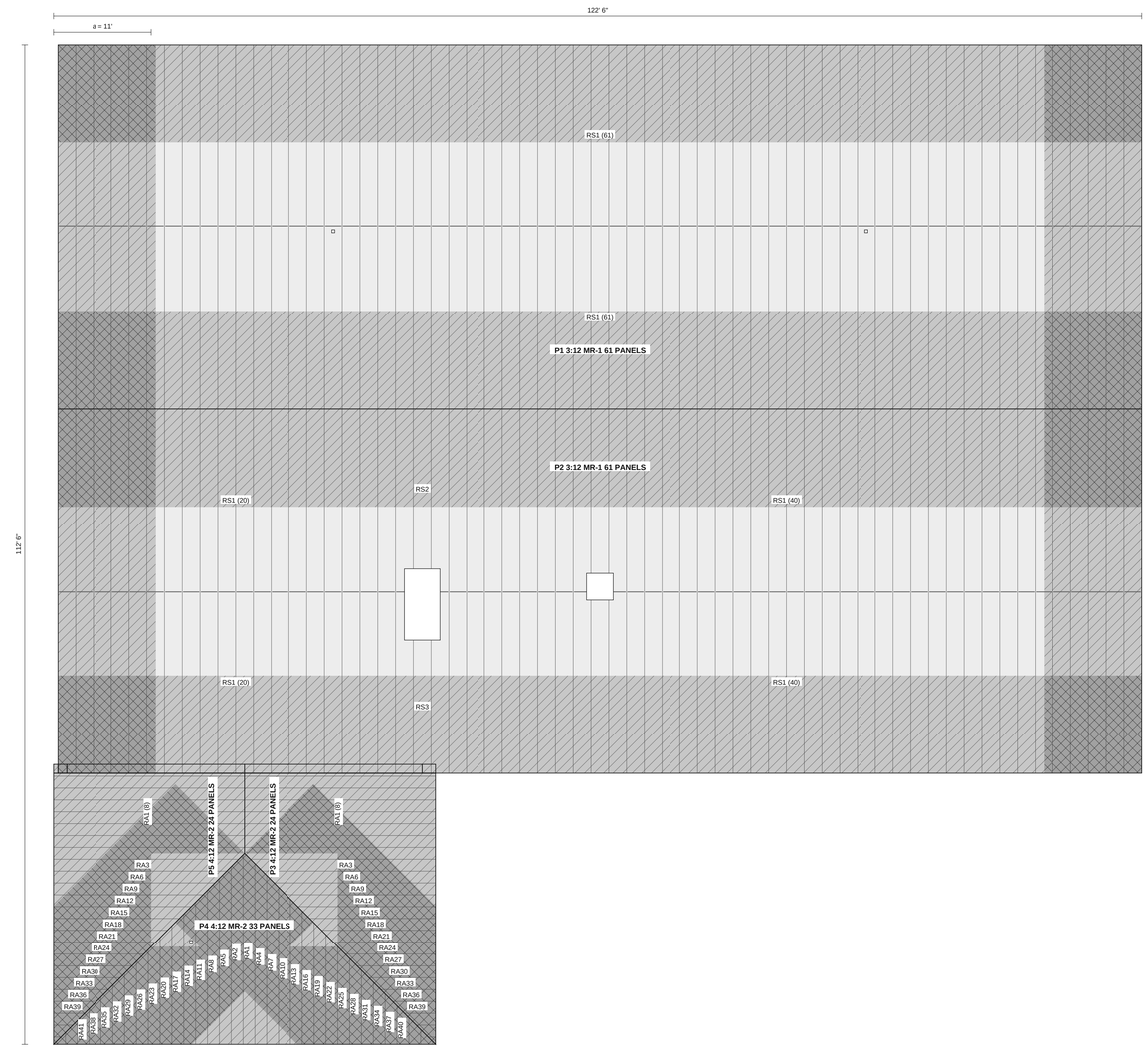
SCALE
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DRAWN BY

SHEET SIZE
ARCH D (24" x 36")

SHEET TITLE
COVER SHEET AND SHEET INDEX

R-0



1 **ROOF PLAN: PANEL LAYOUT AND WIND ZONES**

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. Roof panel lengths are on the slope from the layout; the fabricator confirms them from field measurements. End splices where the runs pass the longest panel that ships, per the maker's splice detail.
2. Roof wind zones: edge and corner bands a = 11' (10% of the least horizontal dimension or 0.4h, the smaller; not under 4% of it or 3 ft: roof zone dimension a for gable and hip roofs 2:12 to 12:12, mean roof height 60 ft or less, as stated in Florida Building Code 8th Ed. (2023) evaluation report FL41824-R1 (floridabuilding.org, issued 10/5/2023); FBC fact sheet "Wind Loads: Impacts from ASCE 7-16" (June 2020)). Clip spacing per zone per the panel maker's tested attachment tables (UL 580 / FM / ASTM E1592 data); past them, the engineer to confirm.
3. Snow retention: ground snow load 50 psf (the code official / the ASCE 7 hazard tool), roof snow load 35 psf; rows and clamp spacing per the snow-retention maker's layout table. The force shown is typical, not engineered.
4. Insulation R-values are nominal (thickness x R per inch). Deck, purlins and the structure by others.
5. Install the panels, clips, underlayment, flashings and snow retention per their makers' installation instructions.
6. Not an engineered design.

ADVISORY (2) - CONFIRM

- S2 P4: Last panel is a 4 in. rip (under a third of the 16 in. panel): start from the other side or center the layout.
- Roof wind: Clip spacing in the edge / corner zones is closer than the purlins: 1,478.5 LF of added purlins or subpurlins there (the structure; the engineer to confirm). (clip spacing per zone from the panel maker's tested attachment tables (UL 580 / FM / ASTM E1592 data); past them, the engineer to confirm)

PRODUCT DATA AND SAMPLES

SPEC SECTION	PRODUCT	MANUFACTURER	DATA SHEET	SAMPLES	USED ON
07 41 13 Metal Roof Panels	MR-1 Structural standing seam, clips and splice kits	Per the specification	To attach	To be submitted	P1, P2
07 41 13 Metal Roof Panels	MR-2 Architectural standing seam, clips and splice kits	Per the specification	To attach	To be submitted	P3, P4, P5
07 26 00 Vapor Retarders	Self-adhered vapor retarder	Per the specification	To attach	To be submitted	roof assemblies
07 22 00 Roof and Deck Insulation	Polyiso roof insulation boards; Faced blanket insulation over the purlins	Per the specification	To attach	To be submitted	roof assemblies
07 22 00 Roof and Deck Insulation	Gypsum cover board 1/2 in.	Per the specification	To attach	To be submitted	roof assemblies
07 31 00 Shingles, Shakes and Roofing Underlayment	High-temperature self-adhered underlayment	Per the specification	To attach	To be submitted	roof assemblies
07 62 00 Sheet Metal Flashing and Trim	Roof trims, flashings, curb and pipe flashings	Per the specification	To attach	To be submitted	roof edges, walls, penetrations
07 72 53 Snow Guards	Snow retention rails and seam clamps	Per the specification	To attach	To be submitted	P1, P2, P3, P4, P5

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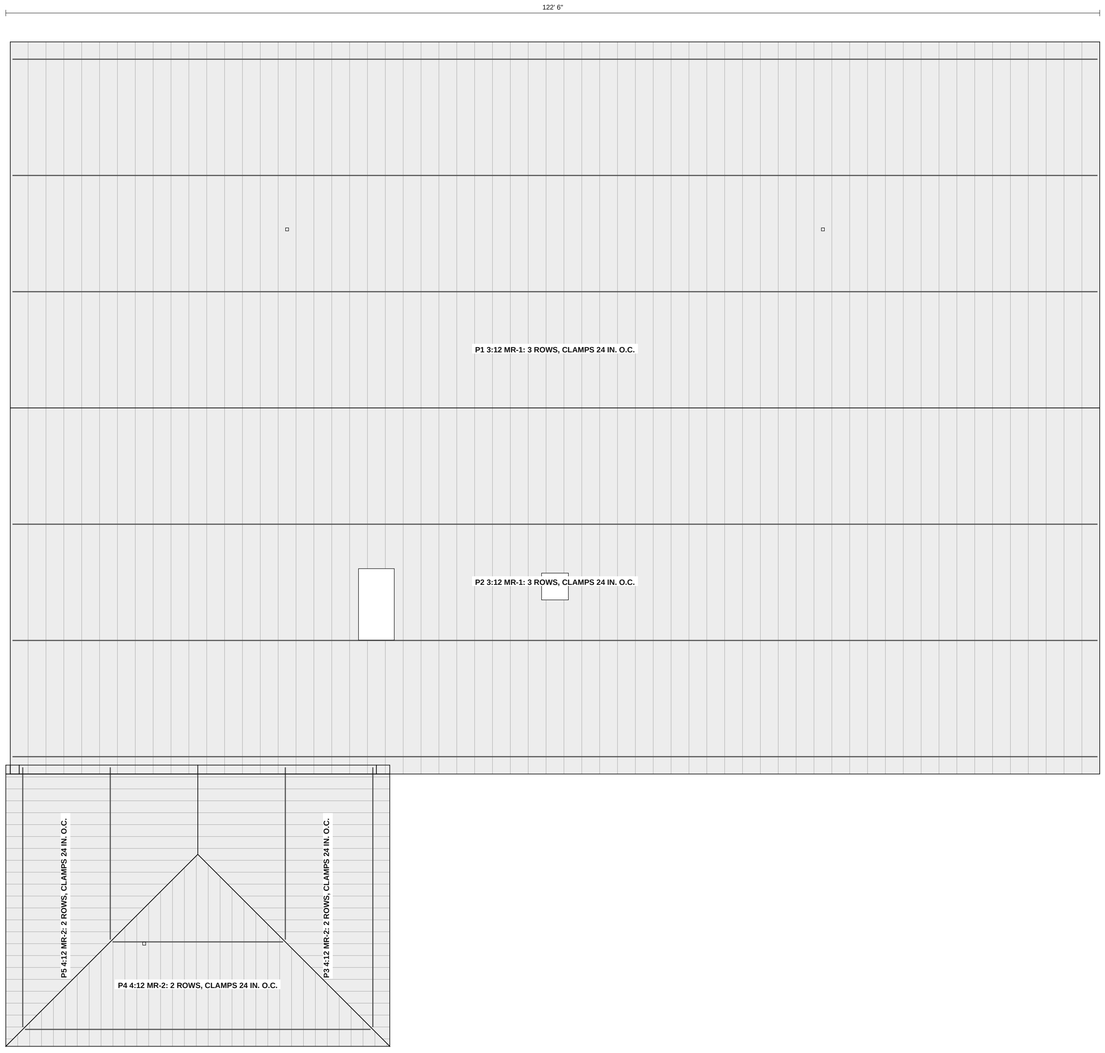
SCALE
As noted

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SHEET SIZE
ARCH D (24" x 36")

SHEET TITLE
ROOF PLAN

R-1



1 **SNOW RETENTION PLAN**
SCALE: 1/8" = 1'-0"

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SHEET SIZE
ARCH D (24" x 36")

SHEET TITLE
SNOW RETENTION PLAN

R-2

Roof systems

TAG	SYSTEM	PANEL	GAUGE / FINISH	SUPPORT	LENGTHS	AREA
MR-1	Structural standing seam	24 in. wide, 2 in. seam, double-lock, mechanically seamed	24 ga, PVDF, silver	Over purlins at 60 in. o.c.	Longest 40', 6 in. end laps	10,311.9 sf
MR-2	Architectural standing seam	16 in. wide, 1 1/2 in. seam, snap-lock	24 ga, PVDF, Charcoal	On a solid deck	Longest 45', 6 in. end laps	1,427.8 sf

1 **ROOF SYSTEMS**

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ROOF SYSTEMS

R-3

Roof assemblies

TAG	DECK	VAPOR RETARDER	INSULATION	COVER BOARD	UNDERLAYMENT	PLANES	AREA
RA-1	None: open purlins	None	6 in. faced blanket insulation over the purlins, R-19.2 nominal	None	None	P1, P2	10,311.9 sf
RA-2	Plywood / OSB roof deck (by others)	Self-adhered vapor retarder	4 in. in 2 layers, polyiso roof insulation boards, R-22.8 nominal	Gypsum cover board 1/2 in.	High-temperature self-adhered underlayment	P3, P4, P5	1,427.8 sf

1 **ROOF ASSEMBLIES**

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ROOF ASSEMBLIES

R-4

Roof planes

PLANE	SECTION	SLOPE	SYSTEM / ASSEMBLY	AREA	PANELS	RUN (SLOPE)	CLIPS
P1	S1	3:12	MR-1 / RA-1	5,155.9 sf	61 panels, 61 splices	42' 3 1/4"	947
P2	S1	3:12	MR-1 / RA-1	5,155.9 sf	61 panels, 60 splices	42' 3 1/4"	947
P3	S2	4:12	MR-2 / RA-2	470.3 sf	24 panels	22' 8"	200
P4	S2	4:12	MR-2 / RA-2	487.3 sf	33 panels	22' 8"	245
P5	S2	4:12	MR-2 / RA-2	470.3 sf	24 panels	22' 8"	200

1 **ROOF PLANES**

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ARCH D (24" x 36")

SHEET TITLE
ROOF PLANES

R-5

Roof panel cut list

MARK	SYSTEM	LENGTH	QTY	AREA	PLANES
RS1	MR-1	21'-5"	242	10,365.7 sf	P1, P2
RS2	MR-1	18'-5 3/4"	1	37 sf	P2
RS3	MR-1	15'-7 1/4"	1	31.2 sf	P2
RA1	MR-2	22'-8 1/2"	17	514.7 sf	P3, P4, P5
RA2	MR-2	22'-6 1/2"	1	30.1 sf	P4
RA3	MR-2	22'-1/4"	2	58.7 sf	P3, P5
RA4	MR-2	21'-5 3/4"	1	28.6 sf	P4
RA5	MR-2	21'-1 1/2"	1	28.2 sf	P4
RA6	MR-2	20'-7 1/4"	2	54.9 sf	P3, P5
RA7	MR-2	20'-1"	1	26.8 sf	P4
RA8	MR-2	19'-8 3/4"	1	26.3 sf	P4
RA9	MR-2	19'-2 1/2"	2	51.2 sf	P3, P5
RA10	MR-2	18'-8"	1	24.9 sf	P4
RA11	MR-2	18'-4"	1	24.4 sf	P4
RA12	MR-2	17'-9 1/2"	2	47.4 sf	P3, P5
RA13	MR-2	17'-3 1/4"	1	23 sf	P4
RA14	MR-2	16'-11"	1	22.6 sf	P4
RA15	MR-2	16'-4 3/4"	2	43.7 sf	P3, P5
RA16	MR-2	15'-10 1/4"	1	21.1 sf	P4
RA17	MR-2	15'-6 1/4"	1	20.7 sf	P4
RA18	MR-2	14'-11 3/4"	2	39.9 sf	P3, P5
RA19	MR-2	14'-5 1/2"	1	19.3 sf	P4
RA20	MR-2	14'-1 1/4"	1	18.8 sf	P4
RA21	MR-2	13'-7"	2	36.2 sf	P3, P5
RA22	MR-2	13'-3/4"	1	17.4 sf	P4
RA23	MR-2	12'-8 1/2"	1	16.9 sf	P4
RA24	MR-2	12'-2"	2	32.4 sf	P3, P5
RA25	MR-2	11'-7 3/4"	1	15.5 sf	P4
RA26	MR-2	11'-3 1/2"	1	15.1 sf	P4
RA27	MR-2	10'-9 1/4"	2	28.7 sf	P3, P5
RA28	MR-2	10'-3"	1	13.7 sf	P4
RA29	MR-2	9'-10 3/4"	1	13.2 sf	P4
RA30	MR-2	9'-4 1/4"	2	24.9 sf	P3, P5
RA31	MR-2	8'-10"	1	11.8 sf	P4
RA32	MR-2	8'-5 3/4"	1	11.3 sf	P4
RA33	MR-2	7'-11 1/2"	2	21.2 sf	P3, P5
RA34	MR-2	7'-5 1/4"	1	9.9 sf	P4
RA35	MR-2	7'-1"	1	9.4 sf	P4
RA36	MR-2	6'-6 3/4"	2	17.5 sf	P3, P5
RA37	MR-2	6'-1/4"	1	8 sf	P4
RA38	MR-2	5'-8"	1	7.6 sf	P4
RA39	MR-2	5'-1 3/4"	2	13.7 sf	P3, P5
RA40	MR-2	4'-7 1/2"	1	6.2 sf	P4
RA41	MR-2	4'-3 1/4"	1	5.7 sf	P4
RA42	MR-2	3'-9"	2	10 sf	P3, P5
RA43	MR-2	3'-2 1/2"	1	4.3 sf	P4
RA44	MR-2	2'-10 1/4"	1	3.8 sf	P4
RA45	MR-2	2'-4"	2	6.2 sf	P3, P5
RA46	MR-2	1'-9 3/4"	1	2.4 sf	P4
RA47	MR-2	1'-5 1/2"	1	1.9 sf	P4
RA48	MR-2	0'-11 1/4" (ripped 10 in.)	2	1.6 sf	P3, P5
RA49	MR-2	0'-4 3/4" (ripped 4 in.)	1	0.1 sf	P4

1 **ROOF PANEL CUT LIST**

PREPARED BY

PROJECT
SAMPLE WAREHOUSE, STANDING SEAM ROOF

OWNER
Sample Logistics LLC

SPEC SECTION
07 22 00, 07 26 00, 07 31 00, 07 41 13, 07 62 00, 07 72 53

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As noted

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SHEET SIZE
ARCH D (24" x 36")

SHEET TITLE
ROOF PANEL CUT LIST

R-6

Clips by zone

PLANE	ZONE	AREA	CLIPS APART	SUPPORTS APART	CLIPS
P1	Field (zone 1)	1,958.5 sf	60 in. o.c.	60 in. o.c.	196
P1	Edge (zone 2)	2,698.6 sf	30 in. o.c.	30 in. o.c. (closer than the 60 in. supports)	540
P1	Corner (zone 3)	498.9 sf	20 in. o.c.	20 in. o.c. (closer than the 60 in. supports)	150
P2	Field (zone 1)	1,958.5 sf	60 in. o.c.	60 in. o.c.	196
P2	Edge (zone 2)	2,698.6 sf	30 in. o.c.	30 in. o.c. (closer than the 60 in. supports)	540
P2	Corner (zone 3)	498.9 sf	20 in. o.c.	20 in. o.c. (closer than the 60 in. supports)	150
P3	Edge (zone 2)	239.6 sf	30 in. o.c.	deck	72
P3	Corner (zone 3)	230.7 sf	20 in. o.c.	deck	104
P4	Edge (zone 2)	52.9 sf	30 in. o.c.	deck	16
P4	Corner (zone 3)	434.4 sf	20 in. o.c.	deck	196
P5	Edge (zone 2)	239.6 sf	30 in. o.c.	deck	72
P5	Corner (zone 3)	230.7 sf	20 in. o.c.	deck	104

1 **CLIPS BY ZONE**

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SHEET TITLE
CLIPS BY ZONE

R-7

Snow retention

PLANE	SLOPE	RUN H / SLOPE	SNOW ON THE RUN (PF X RUN)	DOWNSLOPE FORCE	ROWS	CLAMPS	ROW LF / CLAMPS
P1	3:12	41 / 42.3 ft	35 x 41 = 1,435 lb/ft	1,435 x sin 14° = 348 lb/ft	3 (table), 116 lb/ft a row vs 400	24 in. o.c.	366 LF / 186
P2	3:12	41 / 42.3 ft	35 x 41 = 1,435 lb/ft	1,435 x sin 14° = 348 lb/ft	3 (table), 116 lb/ft a row vs 400	24 in. o.c.	366 LF / 186
P3	4:12	21.5 / 22.7 ft	35 x 21.5 = 752.5 lb/ft	752.5 x sin 18.4° = 238 lb/ft	2 (table), 119 lb/ft a row vs 400	24 in. o.c.	49.4 LF / 27
P4	4:12	21.5 / 22.7 ft	35 x 21.5 = 752.5 lb/ft	752.5 x sin 18.4° = 238 lb/ft	2 (table), 119 lb/ft a row vs 400	24 in. o.c.	58.8 LF / 32
P5	4:12	21.5 / 22.7 ft	35 x 21.5 = 752.5 lb/ft	752.5 x sin 18.4° = 238 lb/ft	2 (table), 119 lb/ft a row vs 400	24 in. o.c.	49.4 LF / 27

1 **SNOW RETENTION**

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SNOW RETENTION

R-8

Roof trim and flashing

TRIM / FLASHING	WHERE	LENGTH	PIECES	LEG
Eave trim with continuous cleat	Eave	350 LF	39 pcs	-
Rake trim with continuous cleat	Rake	169.6 LF	21 pcs	-
Vented ridge cap with closures	Ridge	132 LF	14 pcs	3 in.
Hip cap with closures	Hip	62.5 LF	8 pcs	3 in.
Sidewall flashing and counterflashing	Sidewall	43.7 LF	6 pcs	3 in.
Curb flashings with upslope diverter / cricket	Curbs	4	each	-
Pipe penetration flashings	Pipes	3	each	-

1 ROOF TRIM AND FLASHING

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ARCH D (24" x 36")

SHEET TITLE
ROOF TRIM AND FLASHING

R-9

Roof access

ITEM	BASIS	DAYS
Install	11,739.7 sf	16 crew-days (starting figures: set yours)
Boom lift	Eave 24′	16 days (auto: eave over 16 ft)
Crane	Longest panel 22′-8 1/2″	0 days (auto)

1 ROOF ACCESS

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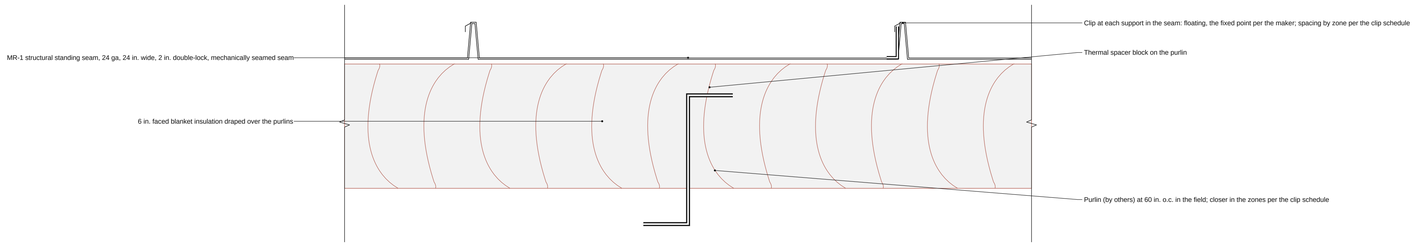
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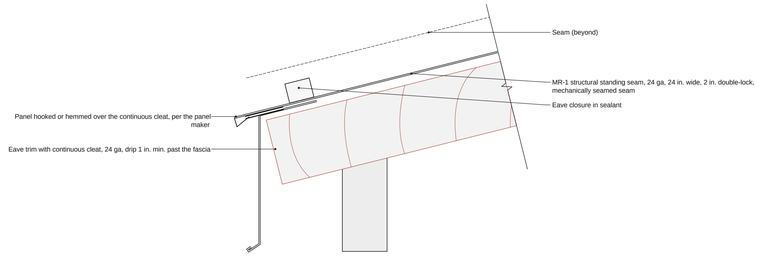
SHEET TITLE
ROOF ACCESS

R-10



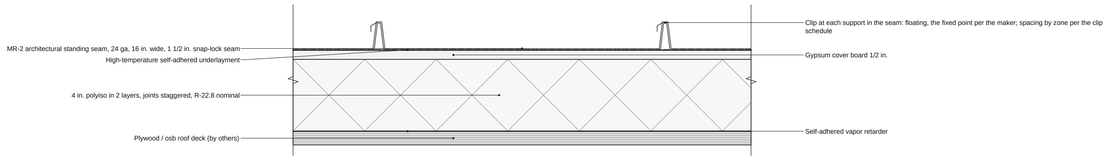
1 **ROOF ASSEMBLY RA-1 WITH MR-1** — 3" = 1'-0"

REF: the panel, clip, insulation and underlayment makers' data



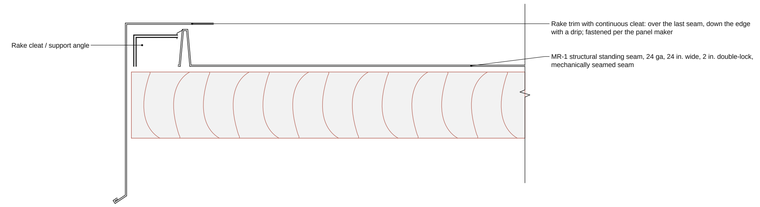
3 **EAVE** — 3" = 1'-0"

REF: the panel maker's eave detail



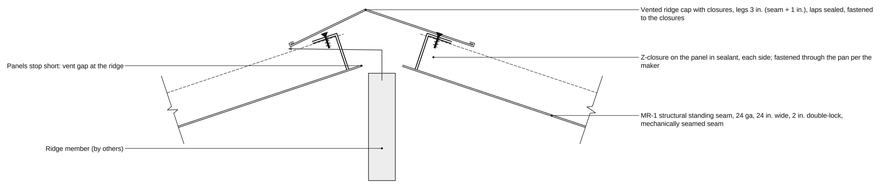
2 **ROOF ASSEMBLY RA-2 WITH MR-2** — 3" = 1'-0"

REF: the panel, clip, insulation and underlayment makers' data



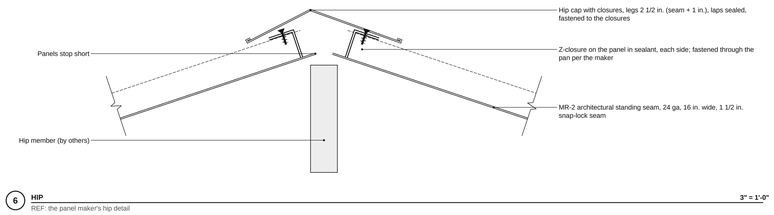
4 **RAKE** — 3" = 1'-0"

REF: the panel maker's rake detail



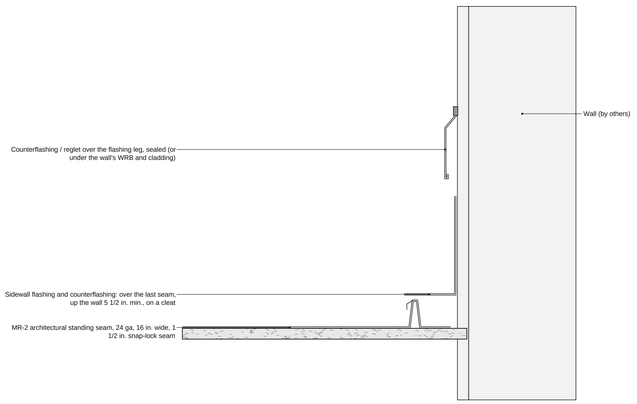
5 **RIDGE, VENTED** — 3" = 1'-0"

REF: the panel maker's ridge detail



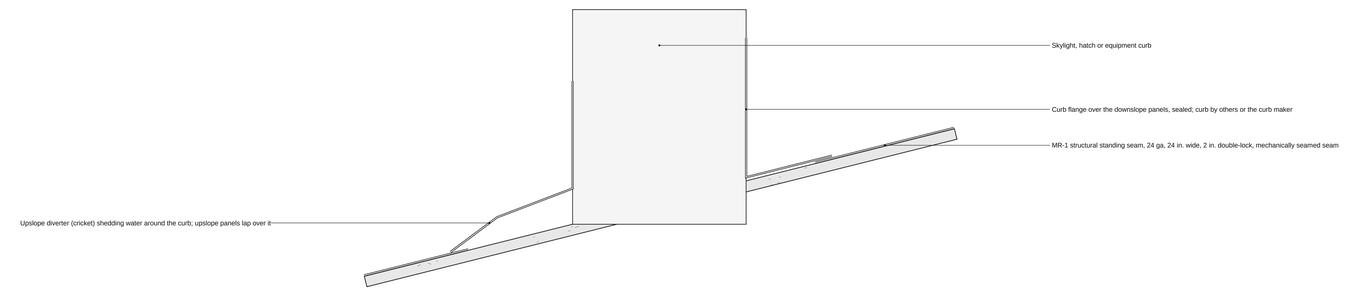
6 **HIP** — 3" = 1'-0"

REF: the panel maker's hip detail



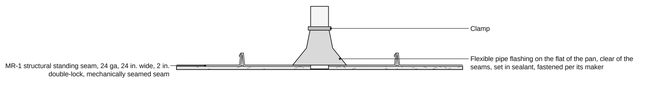
7 **SIDEWALL** — 3" = 1'-0"

REF: the panel maker's sidewall detail



8 **CURB FLASHING** — 3" = 1'-0"

REF: the panel maker's curb detail; the curb maker's data



9 **PIPE PENETRATION** — 1" = 1'-0"

REF: the pipe flashing maker's data



10 **PANEL END SPLICE** — 3" = 1'-0"

REF: the panel maker's end splice detail



11 **SNOW RETENTION** — 1 1/2" = 1'-0"

REF: the snow-retention maker's layout table and installation instructions

PREPARED BY

PROJECT
SAMPLE WAREHOUSE, STANDING SEAM ROOF

OWNER
Sample Logistics LLC

SPEC SECTION
07 22 00, 07 26 00, 07 31 00, 07 41 13, 07 62 00, 07 72 53

NOTICE
Shop drawing for review. Field-verify all dimensions. Roof zones and snow retention are typical, for the design team to review. Clip spacing per the maker's tested tables. Not an engineered design.

REVISIONS

REV	DATE	DESCRIPTION
0	11/5/2026	Issued for review

SUBMITTAL
REV 0

DATE
11/5/2026

SCALE
As noted

DRAWN BY

SHEET SIZE
ARCH D (24" x 36")

SHEET TITLE
DETAILS

R-11

SHEET 12 OF 12