

**TOWN OF HIGH LEVEL
DEVELOPMENT PERMIT**

PERMIT NO.: DP25-053
PROPOSED USE: Permitted Use – 430.92 ft2 Solar Collector (Solar Collectors)
APPLICANT: Matthew Callghan, Firefly Solar
LANDOWNER: Ninie & Julius Fajardo
LOCATION: Lot 3, Block 32, Plan 832 1075

A development involving Application No. DP25-053 has been Approved with Conditions.

1. The site shall be developed in accordance with the site drawings and information attached hereto as Schedule A.
2. The Applicant/Registered Owner shall provide the development authority with a copy of the required approvals from the Alberta Utilities Commission (AUC) and any other provincial or federal agency or utility company prior to the operation of any grid-connected solar energy system.
3. Development must be commenced within one (1) year from the Date of Issue. If at the expiry of this period, the development has not commenced, this Permit shall be null and void.
4. The Applicant/Registered Owner shall ensure there is no damage to municipal property resulting from this permit. Costs for repairs of municipal property will be assessed by the Town of High Level and will be charged back to the applicant.

You are hereby authorized to proceed with the development specified, provided that any stated conditions are complied with, that all other applicable permits are obtained, and that the appropriate appeal period has been exhausted. Should an appeal be made against this decision to the Subdivision and Development Appeal Board, this Development Permit shall not come into effect until the appeal has been determined and the Permit upheld, modified or nullified.

DATE OF DECISION OF DEVELOPMENT PERMIT: **November 25, 2025**

DATE OF ISSUE OF DEVELOPMENT PERMIT: **December 17, 2025**

DATE OF VALIDITY OF DEVELOPMENT PERMIT: **December 17, 2025**

SIGNATURE OF DEVELOPMENT AUTHORITY:



Viv Thoss

NOTES:

1. If the development is found to be incorrectly placed, the applicant may be required to move or remove the development at the sole expense of the Applicant/Registered Owner. Any changes to the attached plans will require a new development permit.
2. An appeal can be made by filing a written notice of appeal along with payment to the **Subdivision and Development Appeal Board (10511 103rd Street, High Level, AB, T0H 1Z0)** within 21 days from the date of the receipt of this decision. In the case of an appeal made by a person referred to in section 685(2) of the *Municipal Government Act*, within 21 days after the date on which the notice of the issuance of the permit was given.
3. **This is a Development Permit ONLY.** Issuance of this Permit does not excuse the applicant from satisfying all other applicable municipal, provincial and/or federal requirements.

OTHER PERMITS ARE REQUIRED

In the interest of public safety and as required by the Safety Codes Act construction permits must be obtained before commencing any work. Required permits may include building, electrical, gas, plumbing, and private sewage. Additionally, the Town of High Level requires permits for water & sewer connection, new accesses, and driveways.

PLEASE NOTE

The Applicant and/or Registered Owner are responsible for applying for, and receiving, all necessary permits prior to beginning construction. Ensure that you or your contractors obtain all other required permits related to the development. For more information regarding how to obtain the required permits, contact Superior Safety Codes 1-866-999-4777. If you are unsure which additional municipal permits you may need, please contact development@highlevel.ca.

SCHEDULE A

Approved November 25, 2025

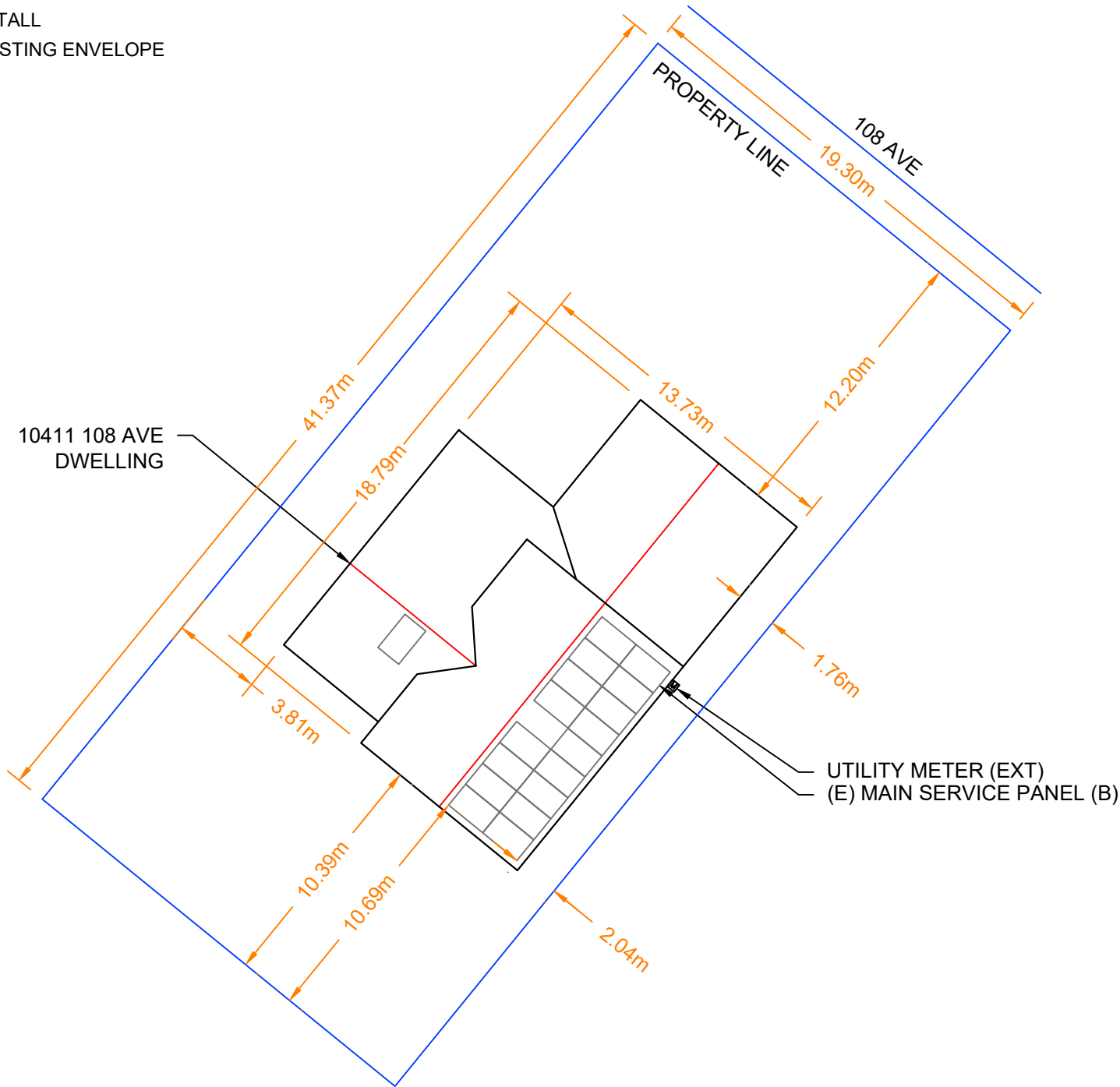
A handwritten signature in black ink, appearing to read 'Viv Thoss', is positioned above a horizontal line.

(11 pages)

Viv Thoss
Development Authority



- NOTES:
- ALL ELECTRICAL BUILDING PENETRATIONS FOR SOLAR PV INSTALL TO BE PROPERLY SEALED TO MAINTAIN INTEGRITY OF THE EXISTING ENVELOPE
 - (E) DENOTES EXISTING EQUIPMENT
 - (N) DENOTES NEW EQUIPMENT
 - (EXT) DENOTES EQUIPMENT LOCATED OUTSIDE
 - (1F) DENOTES EQUIPMENT LOCATED INSIDE ON 1ST FLOOR
 - (B) DENOTES EQUIPMENT LOCATED IN THE BASEMENT



SCALE: 1:250

PERMIT TO PRACTICE
EXACTUS ENERGY INC.

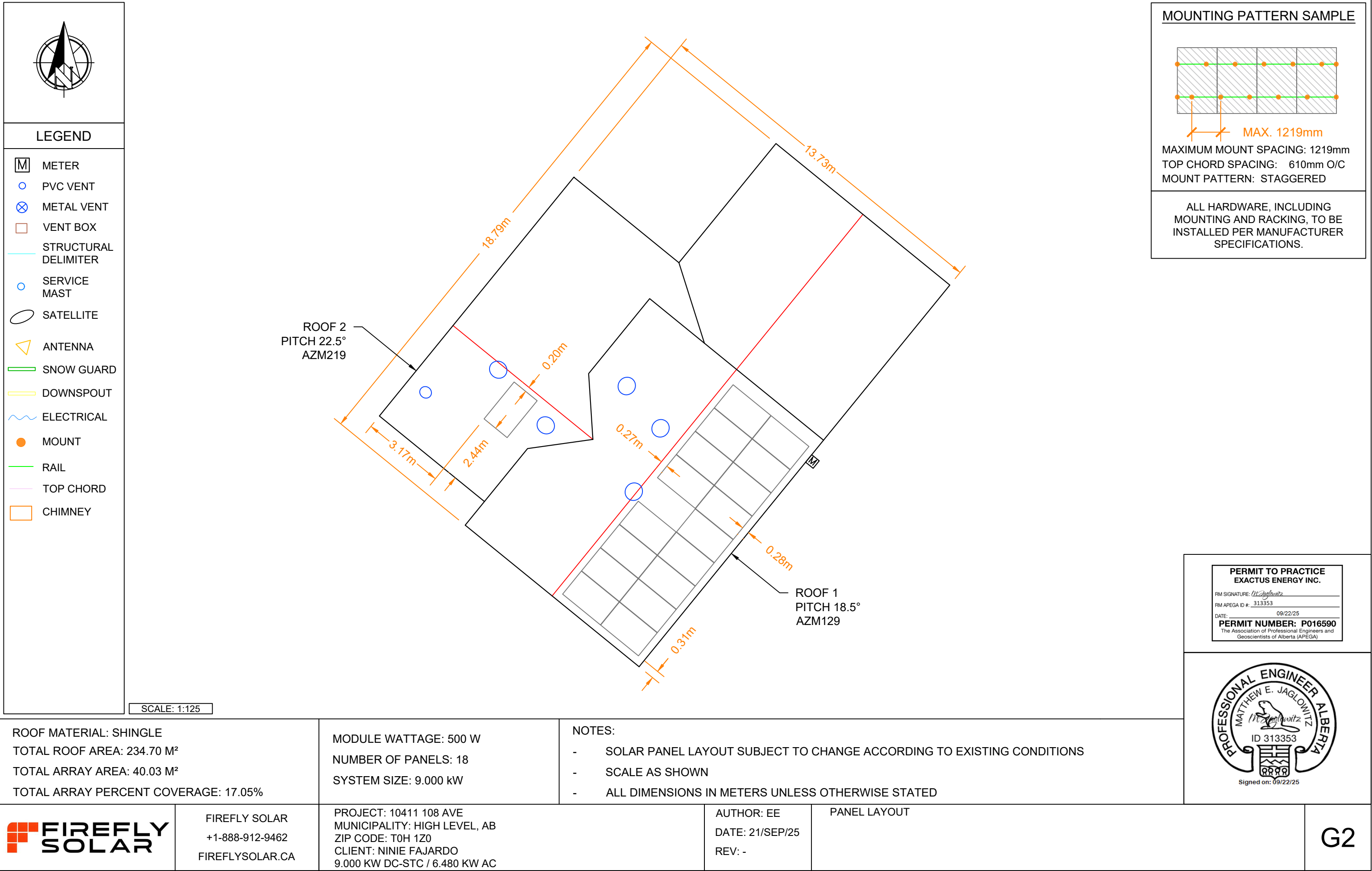
RM SIGNATURE: *W. Zylfowitz*

RM APEGA ID #: 313353

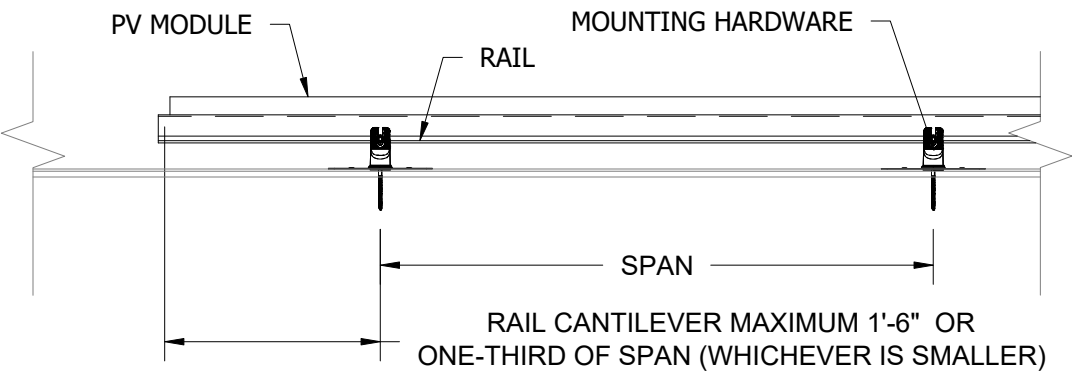
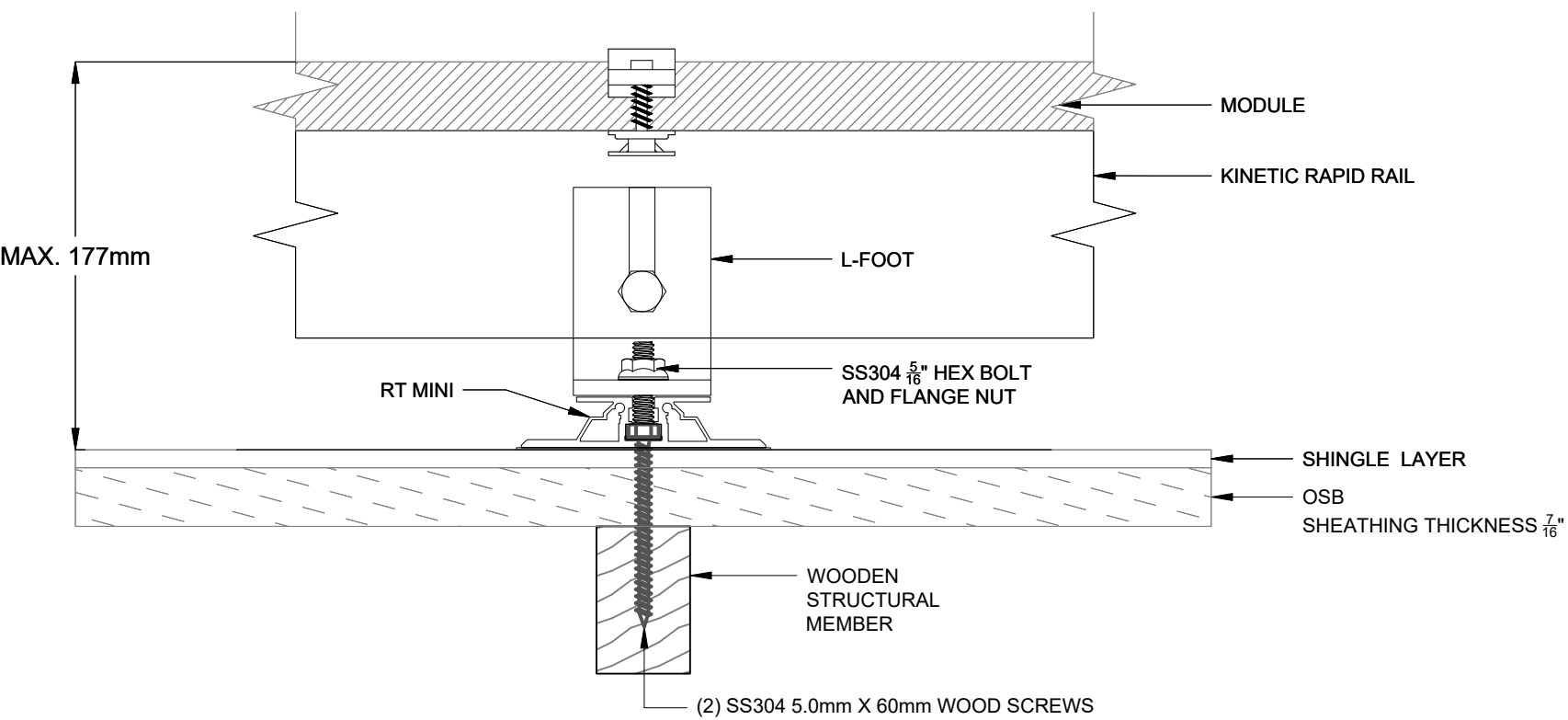
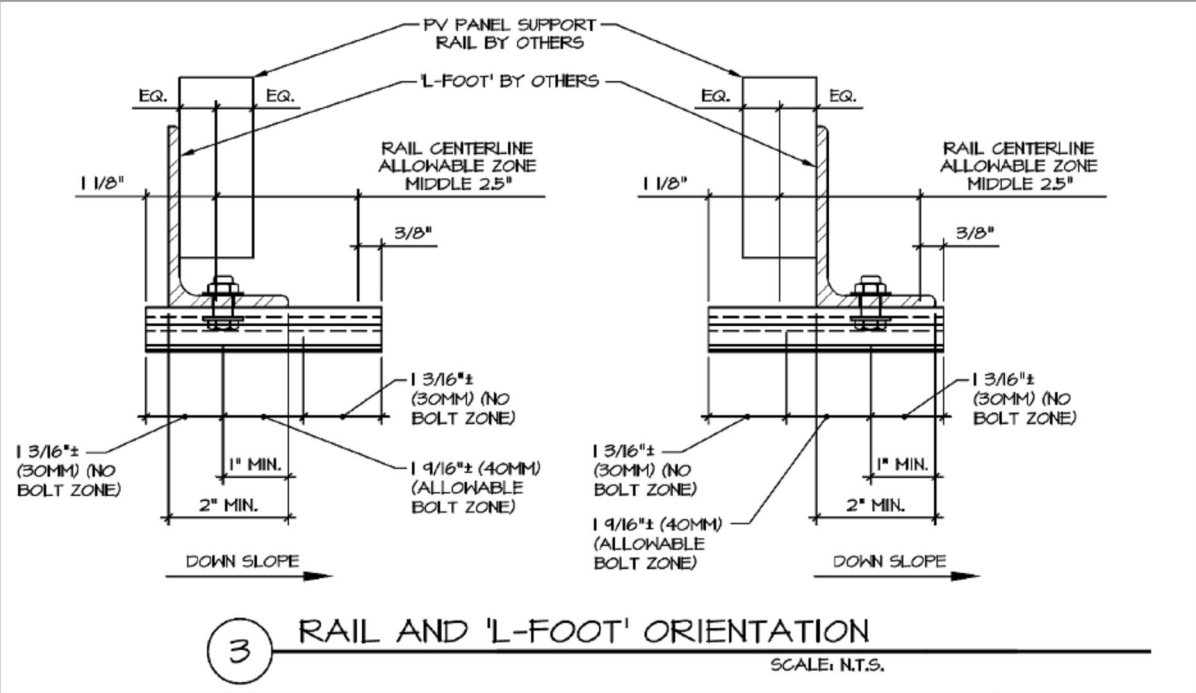
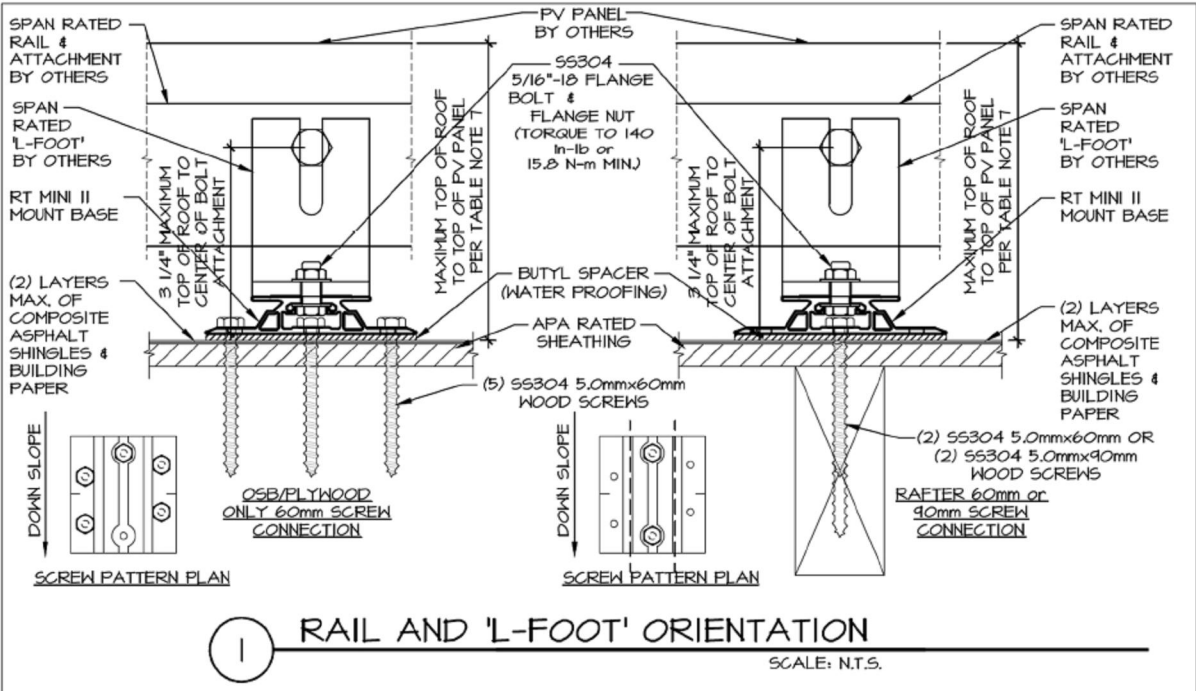
DATE: 09/22/25

PERMIT NUMBER: P016590
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

<p>AHJ: TOWN OF HIGH LEVEL, AB</p> <p><u>GOVERNING CODE:</u></p> <p>NATIONAL FIRE CODE – 2023 ALBERTA EDITION</p> <p>NATIONAL BUILDING CODE - ALBERTA 2023</p> <p>2024 CANADIAN ELECTRICAL CODE</p>		<p>NOTES:</p> <ul style="list-style-type: none">- SCALE AS SHOWN- ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED		<p>NEAREST URGENT CARE FACILITY</p> <p>NAME:</p> <p>ADDRESS:</p> <p>PHONE NUMBER:</p>	
	<p>FIREFLY SOLAR</p> <p>+1-888-912-9462</p> <p>FIREFLYSOLAR.CA</p>	<p>PROJECT: 10411 108 AVE</p> <p>MUNICIPALITY: HIGH LEVEL, AB</p> <p>ZIP CODE: T0H 1Z0</p> <p>CLIENT: NINIE FAJARDO</p> <p>9.000 KW DC-STC / 6.480 KW AC</p>	<p>AUTHOR: EE</p> <p>DATE: 21/SEP/25</p> <p>REV: -</p>	<p>SITE PLAN</p>	
					<p>G1</p>



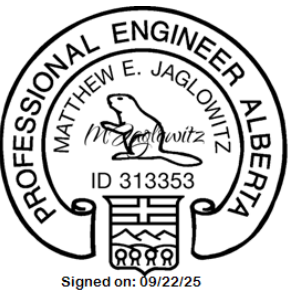




PANEL TYPE: LONGI LR8-54HGBB-500W
PANEL SIZE: 1961.00mm X 1134.00mm
RACKING TYPE: KINETIC RAPID RAIL
MOUNT TYPE: RT MINI II
SOLAR SYSTEM DEAD LOAD: 0.14kN/m²

- NOTES:
- SCALE AS SHOWN
 - ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED

PERMIT TO PRACTICE
EXACTUS ENERGY INC.
RM SIGNATURE: *M. Jaglowitz*
RM APEGA ID #: 313353
DATE: 09/22/25
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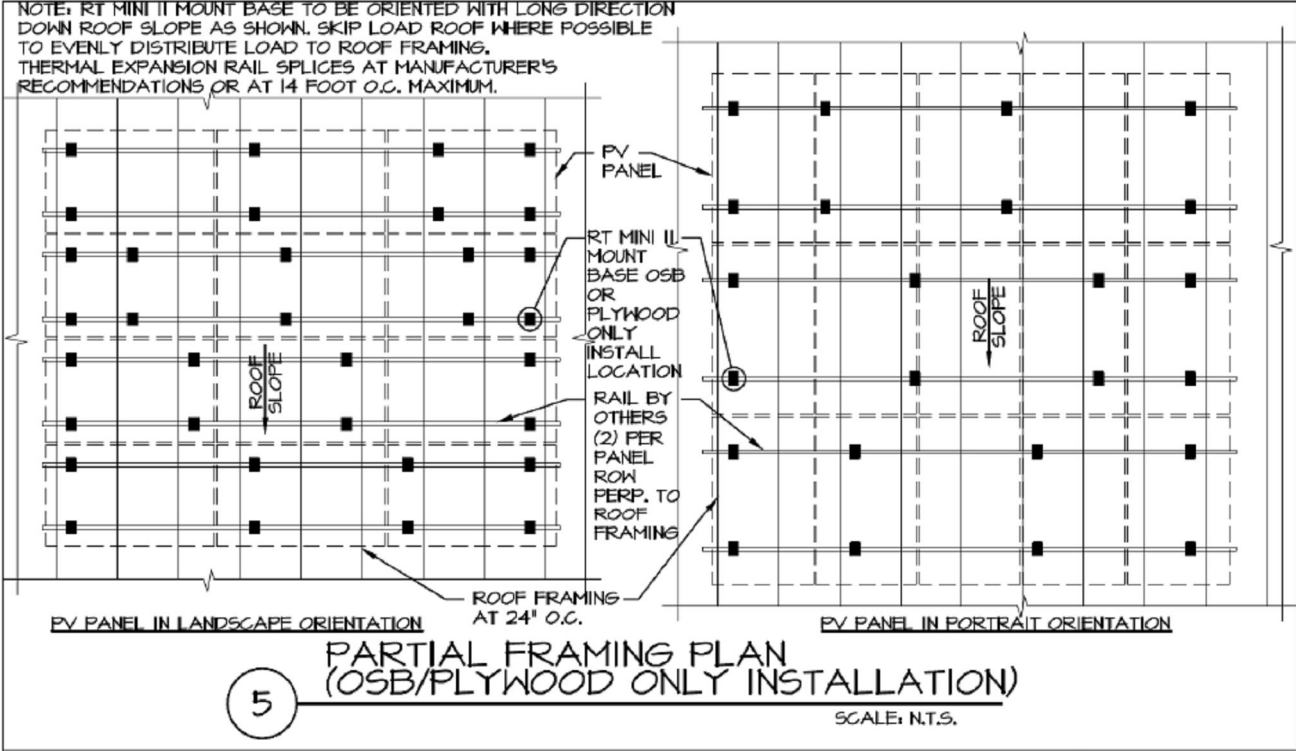
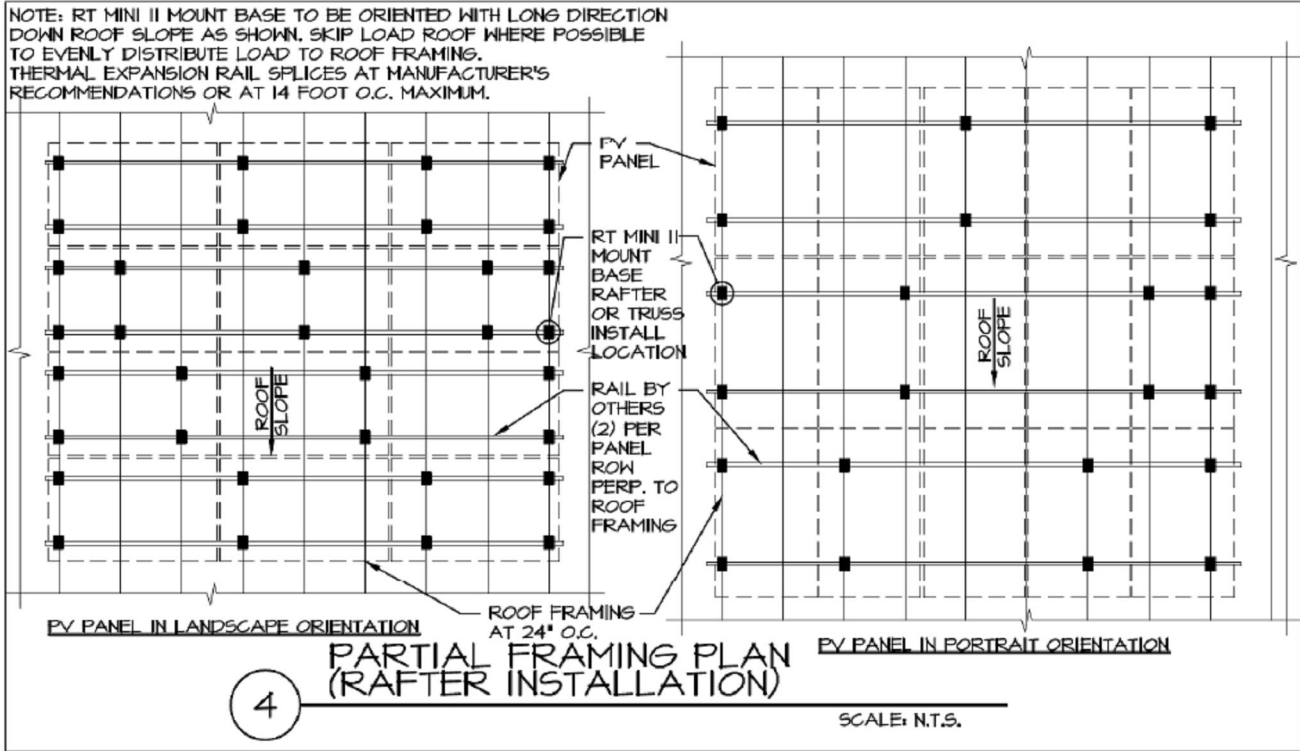
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ATTACHMENT DETAILS

G3

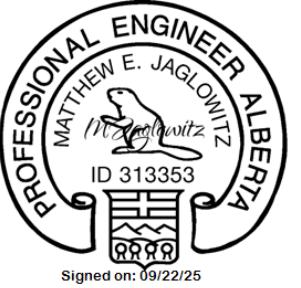


PANEL TYPE: LONGI LR8-54HGBB-500W
PANEL SIZE: 1961.00mm X 1134.00mm
RACKING TYPE: KINETIC RAPID RAIL
MOUNT TYPE: RT MINI II
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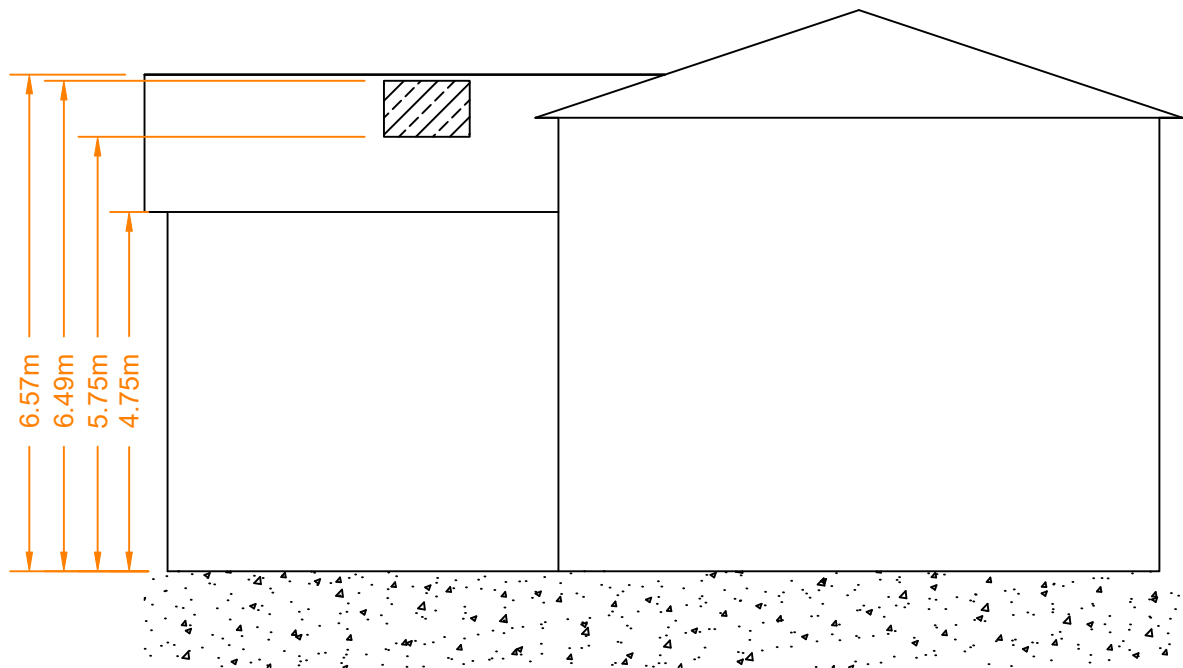


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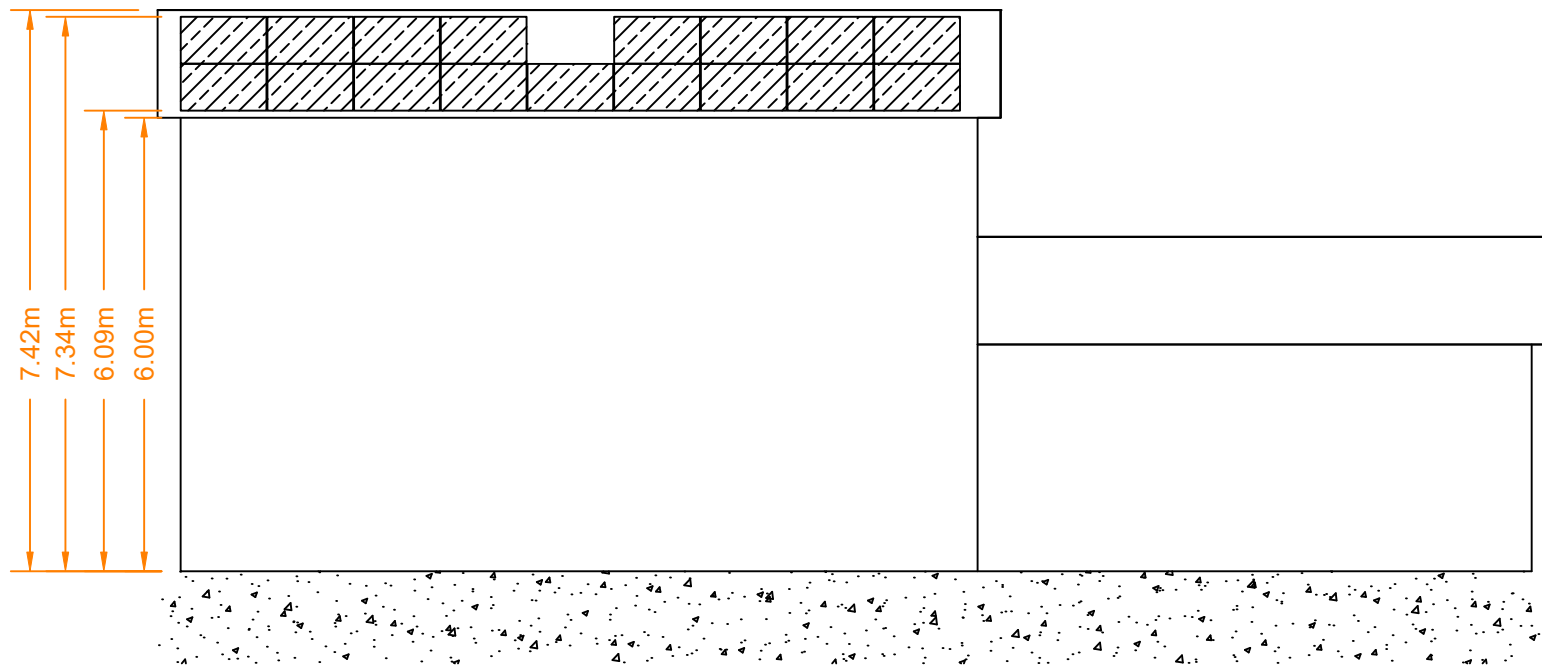
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REV: -

RACK CONNECTION DETAILS



SOUTHWEST ELEVATION



SOUTHEAST ELEVATION

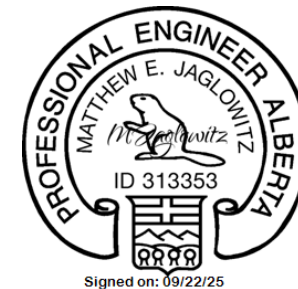
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SOLAR SYSTEM DEAD LOAD: 0.14kN/m²

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SIDE HOUSE ELEVATION

G5

Hi-MO 7

LR8-54HGBB All Black
495~510W

N-type HPDC High Efficiency Bifacial Dual Glass Module

For
Canadian Market



Advanced HPDC cell technology
delivers superior module efficiency
up to 22.9%



Lower temperature coefficient of
Pmax: -0.28 %/°C, more power
production at higher ambient
temperatures



Anti-LID, anti-LeTID, and anti-PID
with low power degradation



Excellent low irradiance
performance



Weather resistant and certified to
withstand rain, hail, wind, and
snow



LONGi Lifecycle Quality ensures
high product quality and long-term
performance



Warranty for
Extra Linear Power Output



Warranty for
Materials and Processing

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO9001:2015: ISO Quality Management System
ISO14001: 2015: ISO Environment Management System
ISO45001: 2018: Occupational Health and Safety
IEC62941: Guideline for module design qualification and
type approval



LONGi

LONGi Solar Technology (Canada) Inc. | 43/F, 5288th Avenue S.W., Calgary, Alberta T2P1G1 | us-info@longi.com | https://www.longi.com/us

Hi-MO 7

LR8-54HGBB 495~510W

22.9%
MAX MODULE
EFFICIENCY

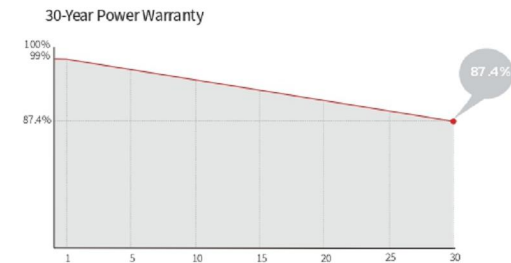
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.4%
YEAR 2-30
POWER DEGRADATION

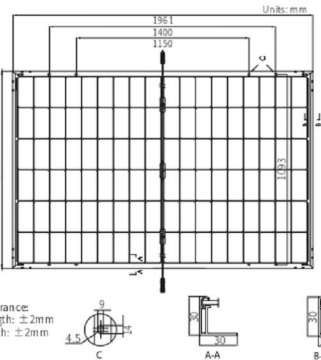
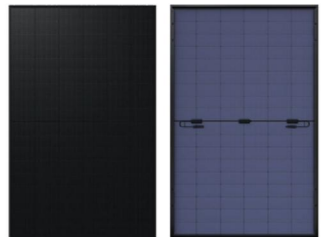
HALF-CELL
Lower operating temperature

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , +400, -200mm/±1200mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	28kg
Dimension	1961×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 864pcs per 40' HC



Electrical Characteristics	STC: AM1.5 1000W/m ² 25°C		NOCT: AM1.5 800W/m ² 20°C 1m/s		Test uncertainty for Pmax: ±3%	
	LR8-54HGBB-495W	LR8-54HGBB-500W	LR8-54HGBB-505W	LR8-54HGBB-510W	LR8-54HGBB-510W	LR8-54HGBB-510W
Modul Type	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	495	377	500	380	505	383
Max. Power(Pmax/W)	495	377	500	380	510	386
Open Circuit Voltage(Voc/V)	39.42	37.47	39.58	37.62	39.75	37.78
Short Circuit Current (Isc/A)	15.90	12.77	15.95	12.81	16.00	12.85
Voltage at Maximum Power (Vmp/V)	32.98	31.34	33.14	31.49	33.31	31.65
Current at Maximum Power (Imp/A)	15.01	12.02	15.09	12.06	15.16	12.10
Module Efficiency(%)	22.3	22.5	22.7	22.9	22.9	22.9

Electrical characteristics with different rear side power gain (reference to 500W front)

Pmax /W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
525	39.58	16.75	33.14	15.84	5%
550	39.58	17.54	33.14	16.59	10%
575	39.68	18.34	33.24	17.30	15%
600	39.68	19.14	33.24	18.05	20%
625	39.68	19.93	33.24	18.80	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	φPmax: 80±10% φVoc: 98±5% φIsc: 80±10%
Fire Rating	UL Type 29 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading (e.g. snow, wind)	5400Pa
Rear Side Maximum Static Loading (e.g. wind)	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C

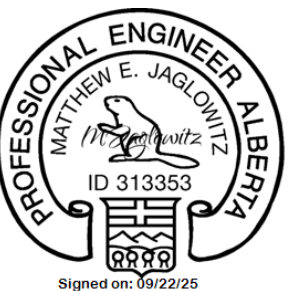
LONGi

LONGi Solar Technology (Canada) Inc.,
43/F, 5288th Avenue S.W., Calgary, Alberta T2P1G1
us-info@longi.com
https://www.longi.com/us

Specifications included in this datasheet are subject to
change without notice. LONGi reserves the right of final
interpretation. (20250429)DG

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Signed on: 09/22/25

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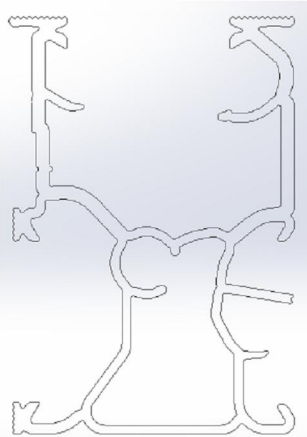
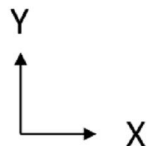
PROJECT: 10411 108 AVE
MUNICIPALITY: HIGH LEVEL, AB
ZIP CODE: T0H 1Z0
CLIENT: NINIE FAJARDO
9.000 KW DC-STC / 6.480 KW AC

AUTHOR: EE
DATE: 21/SEP/25
REV: -

PANEL SPECIFICATIONS

A1

Rapid Rail

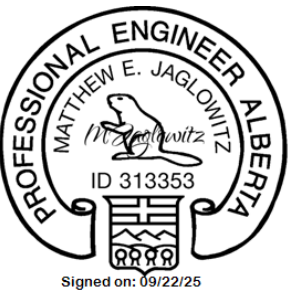


Properties	
Area:	0.5683 in ²
Moments of inertia:	X: 0.2834 in ⁴ Y: 0.1502 in ⁴
Product of inertia:	XY: 0.0028 in ⁴
Radii of gyration:	X: 0.7062 in Y: 0.5140 in
Principal moments of inertia of the area, at the centroid:	I: 0.15009 in ⁴ J: 0.28353 in ⁴
Material:	Aluminum



65 Martin Ross Ave, Toronto, ON
416-665-3755
www.kineticsolar.com

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Signed on: 09/22/25

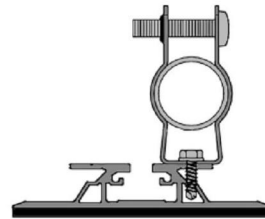
RT-MINI II

A Self-flashing PV Mount Featuring Roof Tech's AlphaSeal®

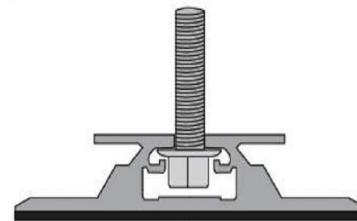


RT-MINI II is suitable for all systems with any L-Foot

Conduit Strap Installation



RT2-04-FBN25
Hex Flange Bolt and Nut Set
Required for L-Foot Attachment



- ✓ No Caulking or Pre-Drilling Required
- ✓ Universal Attachment to Any Slope
- ✓ Metal, EPDM, TPO, SBS, & Asphalt Roofs
- ✓ Wide Range of Applications & Ultimate Flexibility on the Roof
- ✓ No Need to Bend Rails N-S & Rotational Adjustments



Installation Manual



ICC ESR 3575



Roof Tech
The Standard for Waterproof Flexible Flashing Since 1994

www.roof-tech.us

info@roof-tech.us



RT-MINI II

Flexible Flashing Certified by the International Code Council (ICC)

Components

RT2-00-MINIBK2

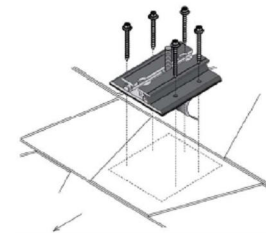


MINI II base : 20 ea.
Screw : 40 ea.
Extra RT-Butyl : 4 ea.

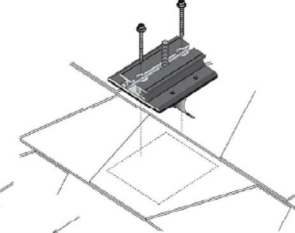
Optional Items:

5 x 60mm Mounting Screw (RT2-04-SD5-60) : 100 ea./Bag
5/16 X 25MM Flange Bolt & Nut (RT2-04-FBN25) : 100 ea./Bag
RT-Butyl (RT2-04-MNBUTYL) : 10 ea./Box

Deck Installation OSB & PLYWOOD ONLY



Rafter Installation



Roof Tech Inc. AlphaSeal™ Technology has been used on over one million residential PV systems since 1994. It is the first PV mounting system with Flexible Flashing certified by the ICC, engineered to withstand wind speeds up to 180 mph and ground snow up to 90 psf.

Engineered to ASTM D 1761
(Standard Test Methods for Mechanical Fasteners in Wood)

ICC ESR-3575 ASTM2140 Testing



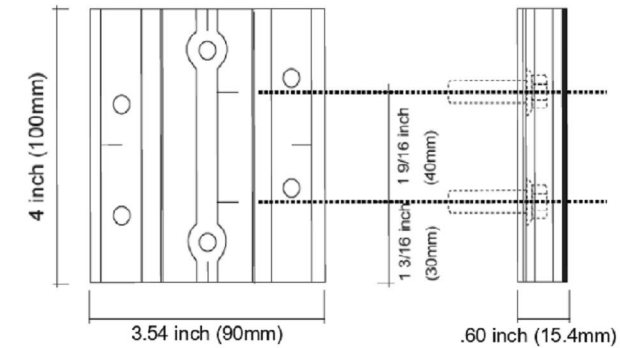
P.E. Letters



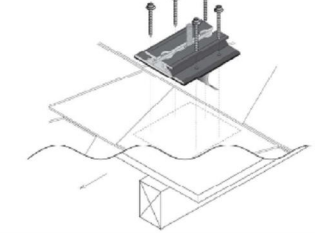
Support & Downloads



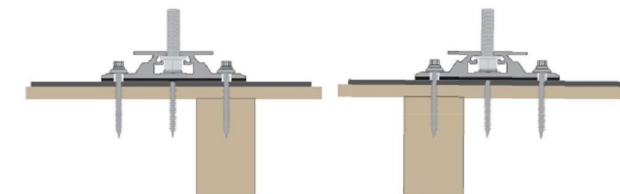
Dimensions in (mm)



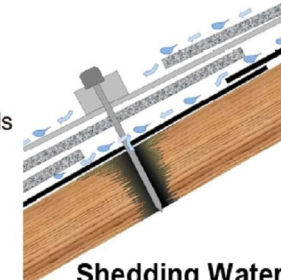
Hybrid Installation Rafter and Deck



Offset Rafter Attachment Options



Metal Flashing Retrofit



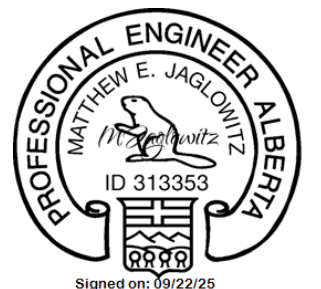
Shedding Water?

Flexible Flashing



100% Waterproof

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Roof Tech Inc.

www.roof-tech.us info@roof-tech.us
10620 Trenea Street, Suite 230, San Diego, CA 92131
858.935.6064

May 2023



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MOUNTING SPECIFICATIONS

A3



Open Energy For All



Microinverter Datasheet

HMS-350-1T-NA
HMS-400-1T-NA
HMS-450-1T-NA
HMS-500-1T-NA

Description

Hoymiles new microinverter HMS-500 series are suitable for high-powered solar panels, which rank among the highest for 1-in-1 microinverters. Each microinverter can be connected to one panel and used in various applications, making it one of the most flexible solar solutions. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

Features

- 01

High-powered microinverter for 1-in-1 series with superior performance
- 02

Safer for rooftop solar stations with PV rapid shutdown compliance
- 03

With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- 04

1-in-1 design enables most flexible applications

Region: North America V202502
© 2025 Hoymiles Power Electronics Inc. All rights reserved.

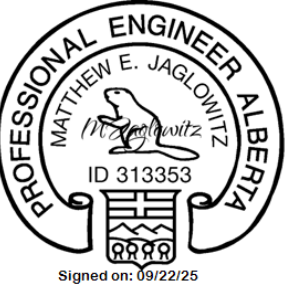
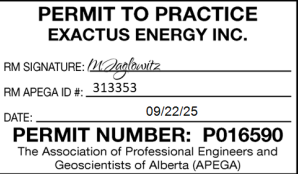
hoymiles.com
sales@hoymiles.com

Technical Specifications

Model	HMS-350-1T-NA				HMS-400-1T-NA				HMS-450-1T-NA				HMS-500-1T-NA			
Input Data(DC)																
Commonly used module power (W)	280 to 470+				320 to 540+				360 to 600+				400 to 670+			
Maximum input voltage (V)	60				65				65				65			
MPPT voltage range (V)					16-60											
Start-up voltage (V)					22											
Maximum input current (A)	11.5				12.5				13.3				14			
Maximum input short circuit current (A)	16				20				20				20			
Number of MPPTs					1											
Number of inputs per MPPT					1											
Output Data(AC)																
Peak output power (VA)	350				400				450				500			
Maximum continuous output power (VA)	319				360				410				475			
Maximum continuous output current (A)	1.33	1.53			1.50	1.73			1.71	1.98			1.98	2.28		
Nominal output voltage/range (V)*	240/211-264	208/183-228			240/211-264	208/183-228			240/211-264	208/183-228			240/211-264	208/183-228		
Nominal frequency/range (Hz)*					60/50-65											
Adjustable power factor (@nominal power)					> 0.99 default 0.8 leading / 0.8 lagging											
Total harmonic distortion (@nominal power)					< 3%											
Maximum units per 10 AWG branch**	18	15			16	13			14	12			12	10		
Maximum units per 12 AWG branch**	12	10			10	9			9	8			8	7		
Efficiency																
CEC peak efficiency	96.70%				96.70%				96.50%				96.50%			
Nominal MPPT efficiency					99.80%											
Night power consumption (mW)					< 50											
Mechanical Data																
Ambient temperature range (°F)	-40 to +149 (-40°C to +65°C)															
Dimensions(W × H × D [inches])	7.17 × 6.46 × 1.18 (182 × 164 × 30 mm)															
Weight (lbs)	3.86 (1.75 kg)															
Enclosure rating	Outdoor-IP67 (NEMA 6)															
Cooling	Natural convection (no fans)															
Features																
Communication	Sub-1G															
Type of isolation	Galvanically Isolated HF Transformer															
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)															
Compliance	UL 1741, IEEE 1547, UL 1741 SB, CA Rule 21, CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C															
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.															
* : Nominal voltage/frequency range can vary depending on local requirements.																
**:. Refer to local requirements for exact number of microinverters per branch.																

* : Nominal voltage/frequency range can vary depending on local requirements.
**: Refer to local requirements for exact number of microinverters per branch.

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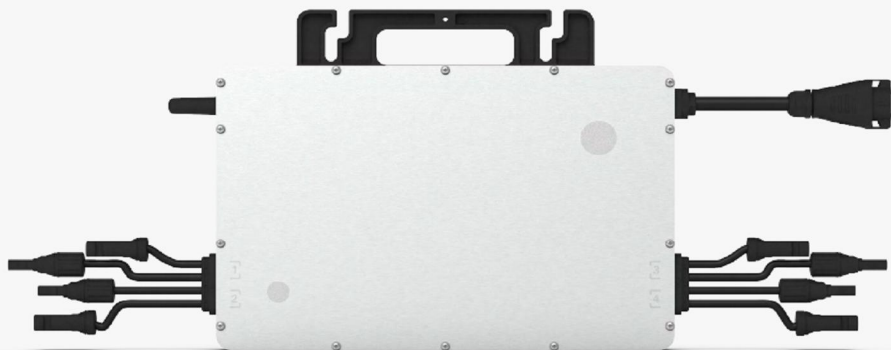
PROJECT: 10411 108 AVE
MUNICIPALITY: HIGH LEVEL, AB
ZIP CODE: T0H 1Z0
CLIENT: NINIE FAJARDO
9.000 KW DC-STC / 6.480 KW AC

AUTHOR: EE
DATE: 21/SEP/25
REV: -

INVERTER SPECIFICATIONS 1



Open Energy For All



Microinverter Datasheet

HMS-1600-4T-NA
HMS-1800-4T-NA
HMS-2000-4T-NA

Description

Hoymiles new microinverter HMS-2000 series are suitable for high-powered solar panels, which rank among the highest for 4-in-1 microinverters. Each microinverter can connect up to 4 panels, with independent MPPT and module-level monitoring maximizing the power production of your installation. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218. The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

Features

- 01

High-powered microinverter for 4-in-1 series with superior performance
- 02

Safer for rooftop solar stations with PV rapid shutdown compliance
- 03

With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- 04

Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 05

4-in-1 design enables most cost-effective solar solution
- 06

Sub-1G wireless solution allows stable communication in commercial and industrial settings

Region: North America V202502
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hoymiles.com
sales@hoymiles.com

Technical Specifications

Model	HMS-1600-4T-NA		HMS-1800-4T-NA		HMS-2000-4T-NA	
Input Data(DC)						
Commonly used module power (W)	320 to 540+		360 to 600+		400 to 670+	
Maximum input voltage (V)			65			
MPPT voltage range (V)			16-60			
Start-up voltage (V)			22			
Maximum input current (A)	4 × 12.5		4 × 13.3		4 × 14	
Maximum input short circuit current (A)			4 × 20			
Number of MPPTs			4			
Number of inputs per MPPT			1			
Output Data(AC)						
Peak output power (VA)	1600		1800		2000	
Maximum continuous output power (VA)	1440		1660		1918	
Maximum continuous output current (A)	6.00	6.92	6.92	7.98	7.99	9.22
Nominal output voltage/range (V)*	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz)*			60/55-65			
Adjustable power factor (@nominal power)			> 0.99 default 0.8 leading ... 0.8 lagging			
Total harmonic distortion (@nominal power)			< 3%			
Maximum units per 10 AWG branch**	4	3	3	3	3	2
Efficiency						
CEC peak efficiency	96.70%		96.50%		96.50%	
Nominal MPPT efficiency			99.8%			
Night power consumption (mW)			< 50			
Mechanical Data						
Ambient temperature range (°F)			-40 to +149 (-40 to +65°C)			
Dimensions (W × H × D [inch])			13.03 × 8.58 × 1.44 (331 × 218 × 36.6 mm)			
Weight (lbs)			10.36 (4.7 kg)			
Enclosure rating			Outdoor-NEMA 6 (IP67)			
Cooling			Natural convection-No fans			

Features	
Communication	Sub-1G
Type of isolation	Galvanically Isolated HF Transformer
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)
Compliance	UL 1741, IEEE 1547, UL 1741 SB, CA Rule 21***, CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.

* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for exact number of microinverters per branch.
***: The HMS-2000-4T-NA microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).

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EXACTUS ENERGY INC.

RM SIGNATURE: *M Jaglowitz*

RM APEGA ID #: 313353

DATE: 09/22/25

PERMIT NUMBER: P016590

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER ALBERTA

MATTHEW E. JAGLOWITZ

M Jaglowitz

ID 313353

Signed on: 09/22/25



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AUTHOR: EE
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INVERTER SPECIFICATIONS 2