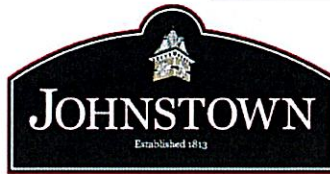




Design Review Board Meeting
Tuesday, August 13, 2024 - 5:00 PM
AGENDA

1. Call to Order/Roll Call
2. Public Comment
3. TABLED Application # 7-1-5 Certificate of Appropriateness; 161 Lakeview Dr. - Covered front porch
 - a. Application
4. TABLED Application # 7-2-5 Certificate of Appropriateness; 169 Stone Hedge Row Dr. - Sun Room
 - a. Application
5. TABLED Application # 7-2-10 Certificate of Appropriateness; 300 Hanebrink Ave - Concord Crossing East Pavilion
 - a. Application
6. TABLED Application # 7-8-15 Certificate of Appropriateness; 82 Meadow Lane - Solar Panels
 - a. Application
7. Application # 7-22-5 Certificate of Appropriateness; 29 Greenscape Ct. - Siding
 - a. Application
8. Application # 8-5-5 Certificate of Appropriateness; 105 W Jersey St. - Garage
 - a. Application
9. Application # 7-30-5 Certificate of Appropriateness; 795 W. Coshocton St. - 62 Car Wash
 - a. Application
10. Other Business
11. Adjourn



JOHNSTOWN, OHIO
JUL 17 2024
PAID

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 7-1-5 Date: 6/26/2024

FEES:

Base Fee: \$ **100**

Total Fee Amount: \$ 100 Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Don Lightle Phone: (614) 374-2252
2. Property Address: 161 Lakeview Dr City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: donlightle1960@gmail.com
4. Business Owner's Name: Don Lightle Phone: (614) 374-2252
5. Contractor's Name: " " Phone: (") " - "
6. Principal Business Activity: Site Supervisor, Building Porch for Deb Robinson
7. Existing Use of Property: Home of Deb Robinson
8. Square Footage of Proposed Building or Business: 920 sq. ft.
9. Zoning District: NA Number of Off-Street Parking Spaces: NA
10. Estimated Cost of Improvements: \$ 5,000.00

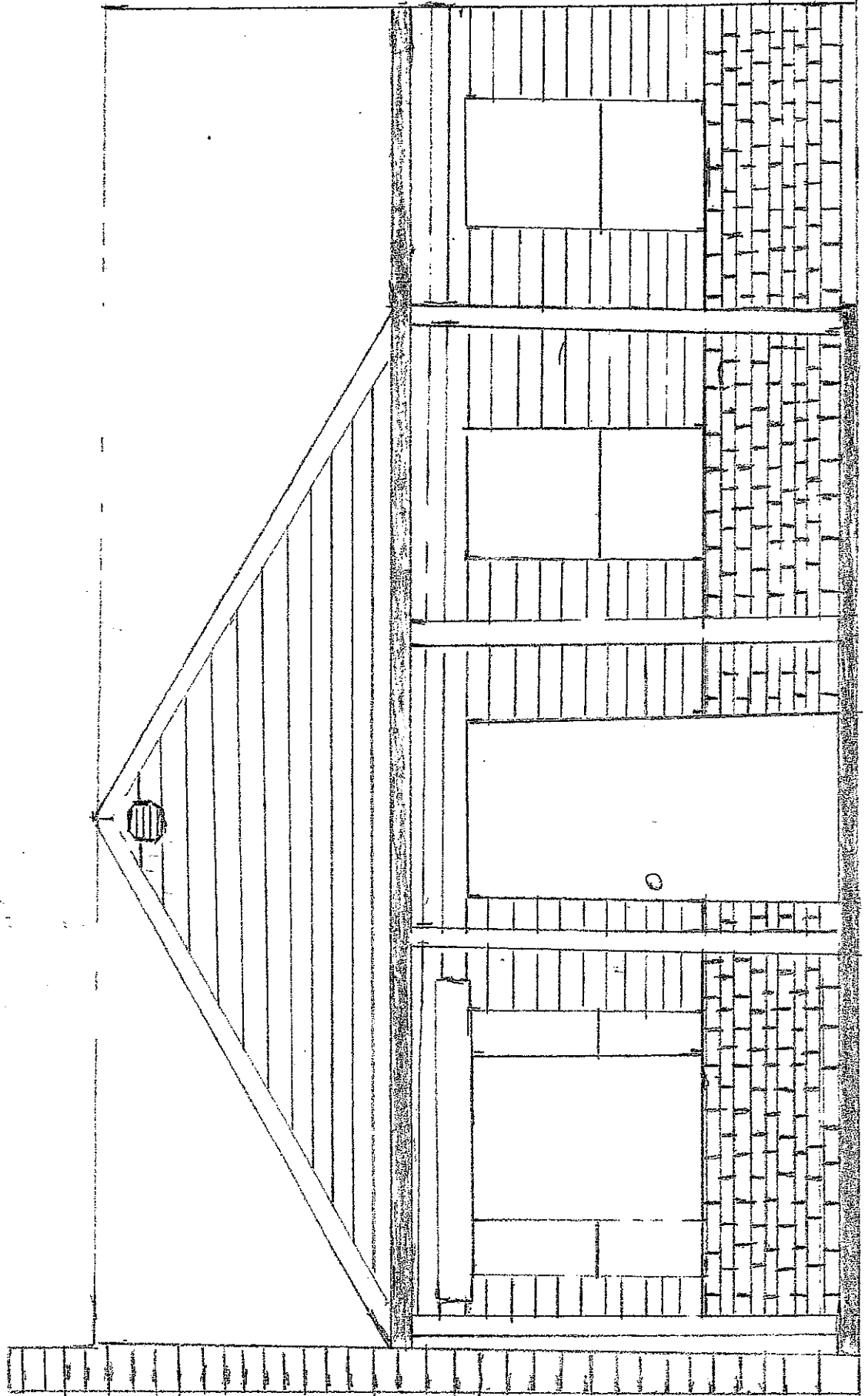
IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- (Conditional) Eight full sets (11x17) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

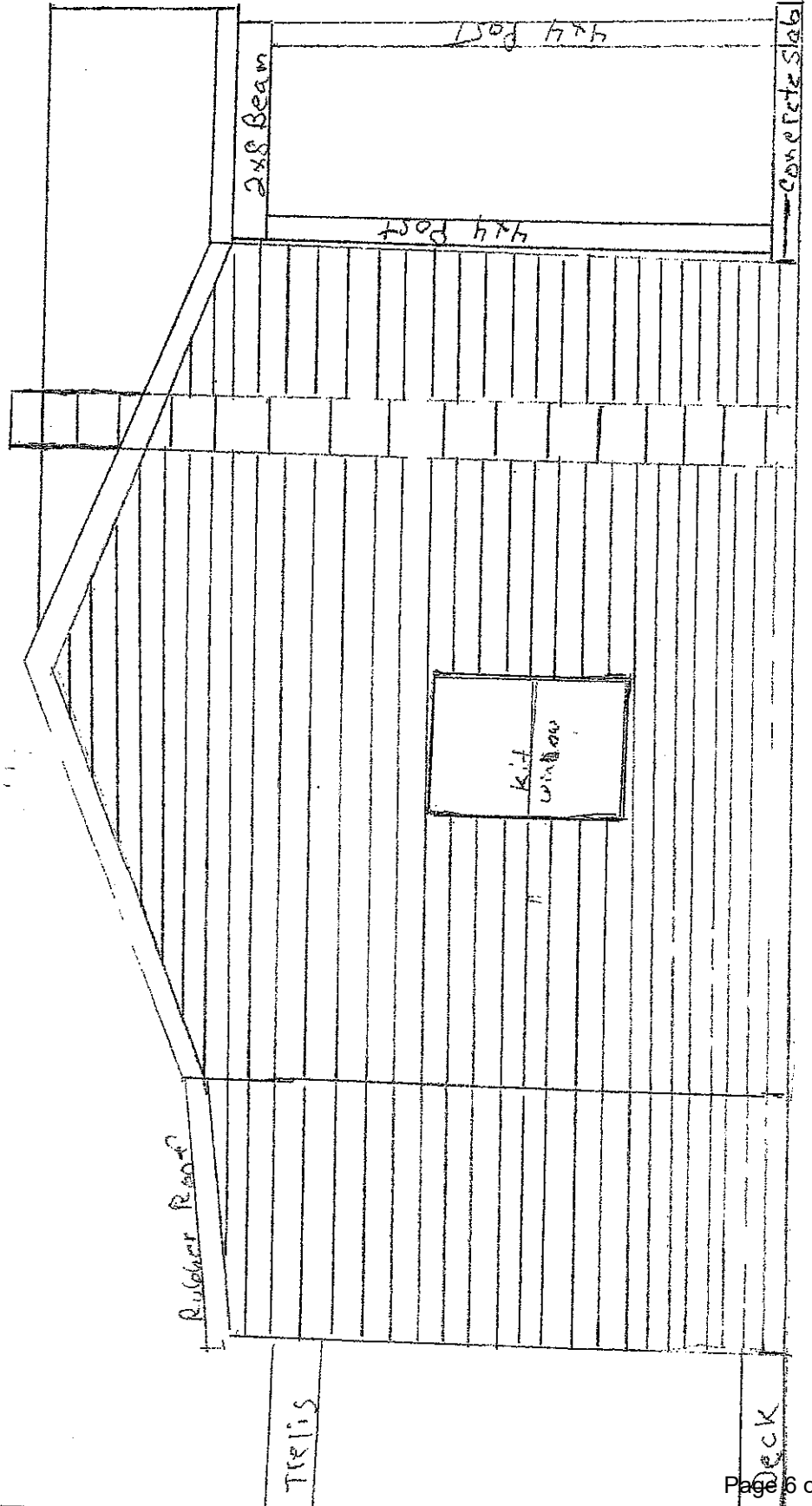
Here is drawings for the new Roof system for front Porch on 161 Lakeview, I am sending you couple Photos of 169 Lakeview to give you idea of what the Plan for Finish look will be.

On drawing ① you can see what our version going to be on the bottom going to Take the siding off up to the bottom of the windows and replace it with siding Panels that have stone look the siding removed use on the Gable so it will match the house also have a working gable vents, We still going to make it 8'x26' we have the Truss's in Position Plan on using 2 more 4x4 Post up against the house to carry 2x8 Beam that Truss's bear on then the valley be stick Frame The areas where the Post will go we will Put Thickened Slabs for more support The slab will also have rebar anchored into the house slab, we are still going to Put all new shingles and gutters and down spouts We are Excited to have This done to the house Thank you for the Help and Guidance.

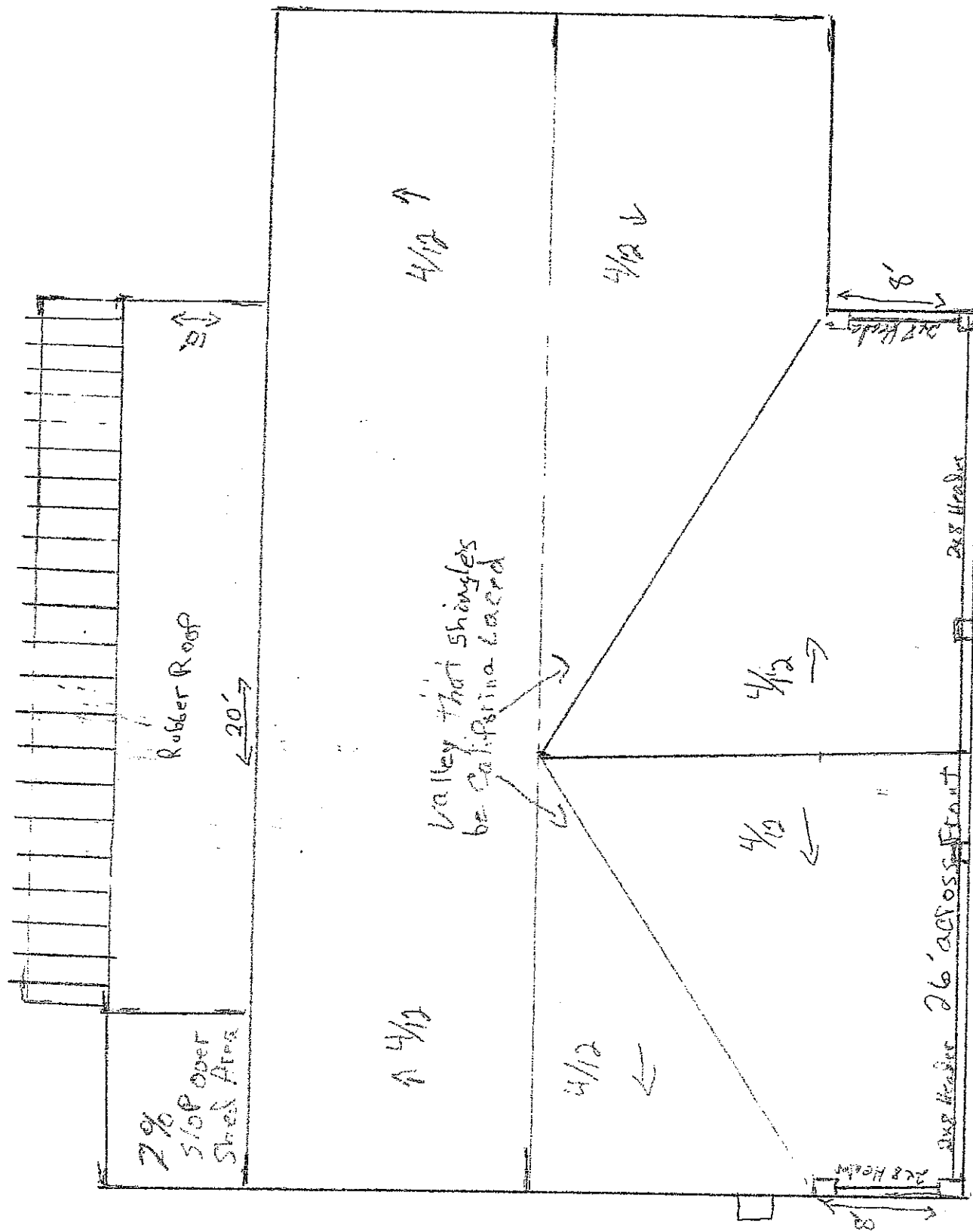
①



2

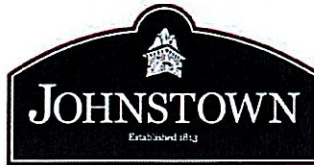


3









JUL - 2 2024

PAID

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 7-2-5 Date: 7/2/2024

FEES:

Base Fee: \$ 300

Total Fee Amount: \$ 300 Paid: Check # 9248 Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Max Sargent Phone: (614) 626-8306
2. Property Address: 119 Stone Hedge Row Dr City: Johnston State: Ohio Zip: 43031
3. Applicant's E-mail: sunspicecentralohio@yahoo.com
4. Business Owner's Name: Max Sargent Phone: (614) 626-8306
5. Contractor's Name: Sunspice Central Ohio Phone: (614) 626-8306
6. Principal Business Activity: Swimrom Company
7. Existing Use of Property: 3-Season UnHeated
8. Square Footage of Proposed Building or Business: 12x15 sq. ft.
9. Zoning District: C14/OF-Turkey Number of Off-Street Parking Spaces: 2 Car Spaces + 4 CARS
IN DRIVEWAY
10. Estimated Cost of Improvements: \$ 45,810.00

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations and landscaping.
- (3) Illustration of all existing building elevations to scale.
- (4) Illustrations of all proposed building elevations to scale.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

- | | |
|--------------------|---------------------------|
| 1. <u>lumber</u> | 2. <u>Booms are Metal</u> |
| 3. <u>Shingles</u> | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |

List of Contiguous Neighbors and Addresses:

- | | | | |
|--|--------------------------|-----------|--------------|
| 1. <u>Rick & Shelly McClelland</u> | <u>73 Pepperwood Pl</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. <u>Wade & Whitney Weathermont</u> | <u>92 Greenstick Way</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. <u>Sharon & Shelly Robbins</u> | <u>147 Sassafras Pl</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. <u>Mike & Carol Brown</u> | <u>165 Sassafras Pl</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

Parcel 2nd half taxes are due July 17, 2024

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169 STONE HEDGE ROW
DR
JOHNSTOWN, OH 43031

Acres:

Land:
Improv:
Total:

Transfer Date:
Amount:
Conveyance:
Valid Sale:

Homestead:
Owner Occ: Yes

Foreclosure:
Certified Delq:
On Contract:
Bankruptcy:

Parcel: 053-172440-00.043 (Direct Link)
Owner: HARTSOUGH BRENT P & JAMIE
Parcel Address: 169 STONE HEDGE ROW DR
JOHNSTOWN, OH 43031

Legal Desc: LOT 48 LEAFY DELL SEC
1 AMENDED

Acres: 0.3670

Tax District: 053 MONROE T-JOHTN V-JOHTN-
MNR LSD
Township: MONROE
Municipality: JOHNSTOWN
School District: JOHNSTOWN MONROE LSD
Neighborhood: 07202 Johnstown - Leafy Dell
Parent Parcel:

Owner Mailing HARTSOUGH BRENT P
Address: & JAMIE
169 STONE HEDGE
ROW DR
JOHNSTOWN OH
43031

Mailing Address: CORELOGIC TAX
SERVICES
ESCROW REPORTING
3001 HACKBERRY RD
IRVING TX 75063

Class Group: Residential
Class: 510 Single family
platted lot
TIF:

Utilities: 6 - All

Foreclosure: No
Certified Delinq: No
Escrow Account:
Bankruptcy: No
Tax Lien: No
Block Transfers: No

LEAFY DELL HOMEOWNERS' ASSOCIATION

c/o SBS Management
4872 Cemetery Road
Hilliard, OH 43026
(614) 527-7909 | fax (614) 527-0877
Dan@sbs.management

May 27, 2024

Jamie & Brent Hartsough
169 Stone Hedge Row Dr.
Johnstown Ohio 43031

Re: 3 Seasons Room Exterior improvement

Dear Jamie & Brent Hartsough:

Upon review of your request for approval of exterior improvements and comparing your plans to build a three seasons room at the rear of your house, to the Covenants and Deed Restrictions of Leafy Dell Homeowners' Association; the Board of Directors finds no issues directly related to this construction that are not in compliance of the Association guidelines.

Therefore, the Association gladly approves your additions as presented on your application as and your improvements have been properly permitted and built within any local governmental zoning requirements (if any) and any setback requirements.

Your approved project must be completed within a timely manner after start of construction. This written Board approvals is good for one-year from the date of this letter. If your project is not completed by the end of one year from the date of letter, you must reapply for approval. An owner may be required to remove all or part of an improvement for maintenance of a common area. You could be responsible for the costs of removal of your improvement. You will be responsible for all costs associated with the modification/improvement, including, without limitation, all insurance, installation, maintenance, and future repair costs. You will be responsible for all damages to Association property caused by the work of your improvement, including but not limited to, damages to landscaping or lawn areas.

The Association also sends its appreciation to you for submitting the proper forms and request to assure your improvements are within the guidelines of the Association.

Sincerely,

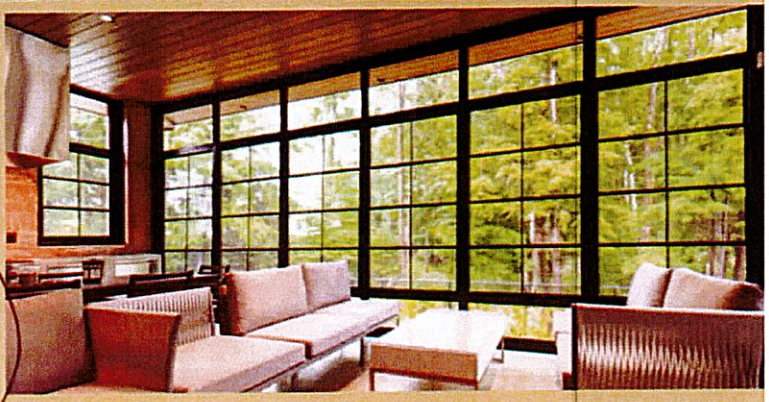
Susan Kwadrat
Managing Agent, Leafy Dell Homeowners' Association



Extend the functionality of your porch, under porch or deck and convert it into a three season sunroom. Custom fabricated to fit, Sunspace walls under comes in a variety of styles and options.

Your choice of Weathermaster® WeatherMaster Plus® or full glass window systems combine a stylish, modern design with easily installed custom fitted panels, while reducing the need for special trade installation.

Sunspace Walls Under will create an ideal living area that you and your family will love to spend time in.



Available Colors
Aluminum Colors

Standard					
	White	Driftwood	Bronze	Black	Grey

Vinyl Window Colors

Standard				
	Clear	Smoke Gray	Dark Gray	Bronze

SUNSPACE

Central Ohio

COME SEE
OUR NEW SHOWROOM

614-626-8306
sunspacecentralohio.com



SUNSPACE SPECIFICATION SHEET

Customer: Sunspace of Central Ohio
Tag Name: hartsough

Order Date: Apr 22, 2024

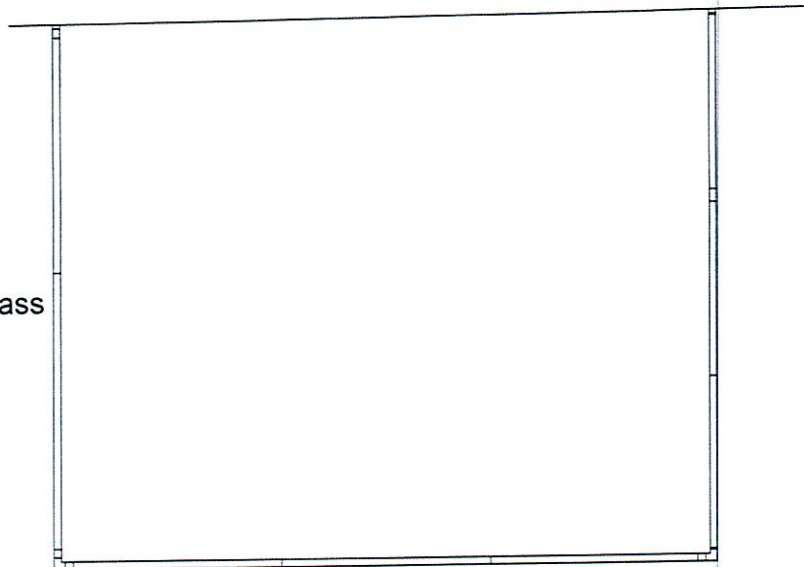
Page 1 of 2

Room Specifications

12' 0" Projection x 15' 0" Width

Room Style: Studio
Wall Type: Model 300
Backwall Height: 112" Incl. Roof
Frontwall Height: 94" Incl. Roof
Framing Colour: White
Ext. Panel Skin: White Alum. Stucco
Int. Panel Skin: White Alum. Stucco
Kneewall: 23-3/4" Tempered Glass
Transom Style: Solid Panel
Cut Pitch: Yes

Room Layout

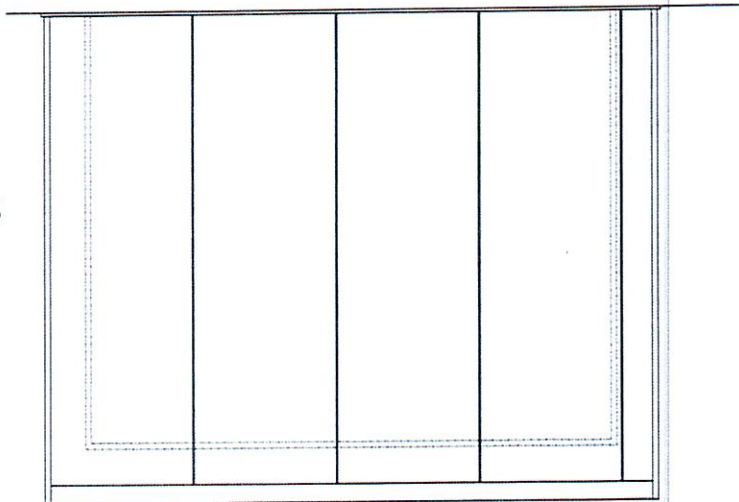


Floor Specifications

12' 0" Projection x 15' 0" Width

Thickness: 4-1/2"
Ledger: 3"
Sides: 1-1/2"
Front: 1-1/2"
Joint: 0-3/4"
Floor Has Metal Vapour Barrier

Roof Layout



Roof Specifications

13' Projection x 17' Width

Roof Type: Pressure Cap OSB/OSB
4" x 48" O.C. x 1 lb
Roof Pitch: 1.5 / 12 (7.13°)
Int. Panel Color: White
Ext. Panel Color: White
Gutter Color: White
Downspout Kits: 1
Downspout Color: White

Windows and Doors

Window Type: H.R. XX Glass
Window Color: White
Glass Tint: Clear
Screen Type: Tuff Screen
Left Wall: 6' Patio Door - Clear

Sun-Shades

5% Openness
Fabric Color: Sable/Ash Pearl
Valance Color: White
Units Required: 8

SUNSPACE SPECIFICATION SHEET

Customer: Sunspace of Central Ohio
Tag Name: hartsough

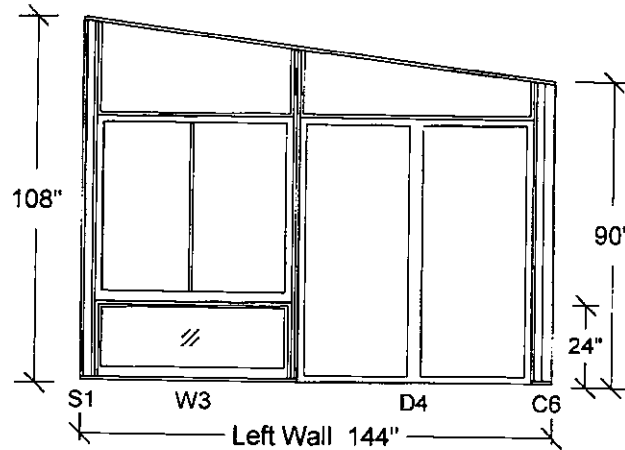
Order Date: Apr 22, 2024

Page 2 of 2

Wall Specifications

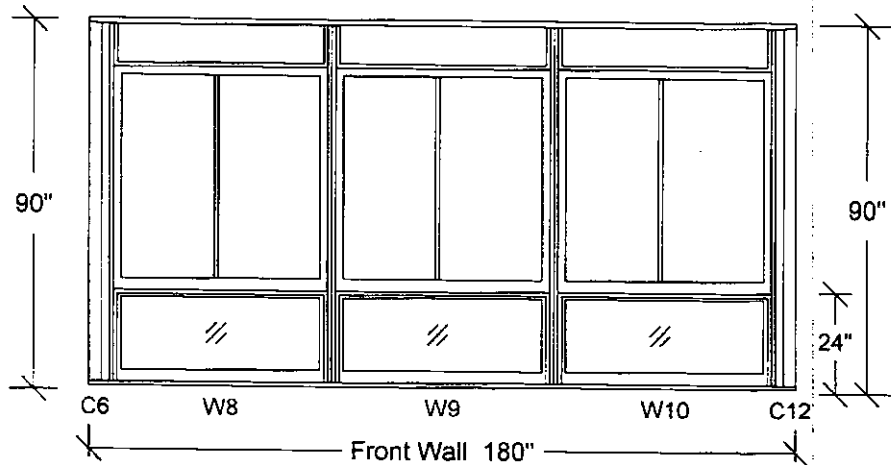
Left Wall

- S1 Starter
- F2 2-3/8" Solid Wall
- W3 60" x 55" H.R. XX Glass
- D4 6 Foot Patio Door
- F5 2-1/4" Solid Wall
- C6 90° Corner



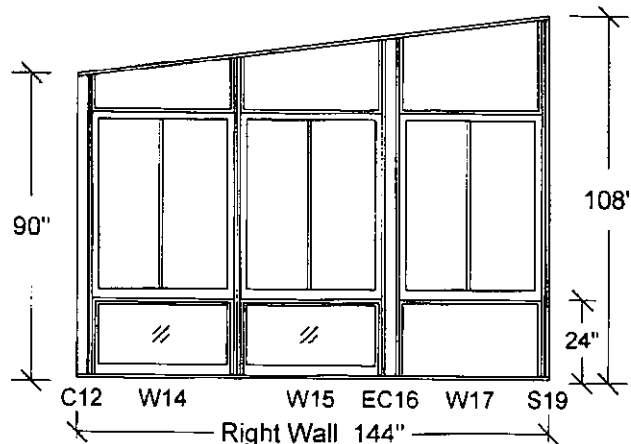
Front Wall

- C6 90° Corner
- F7 2-1/8" Solid Wall
- W8 54-1/2" x 55" H.R. XX Glass
- W9 54-1/2" x 55" H.R. XX Glass
- W10 54-1/2" x 55" H.R. XX Glass
- F11 2-1/8" Solid Wall
- C12 90° Corner



Right Wall

- C12 90° Corner
- F13 0-3/8" Solid Wall
- W14 43-1/4" x 55" H.R. XX Glass
- W15 43-1/4" x 55" H.R. XX Glass
- EC16 Electrical Chase
- W17 43-1/4" x 55" H.R. XX Glass
- F18 0-3/8" Solid Wall
- S19 Starter



Sketch

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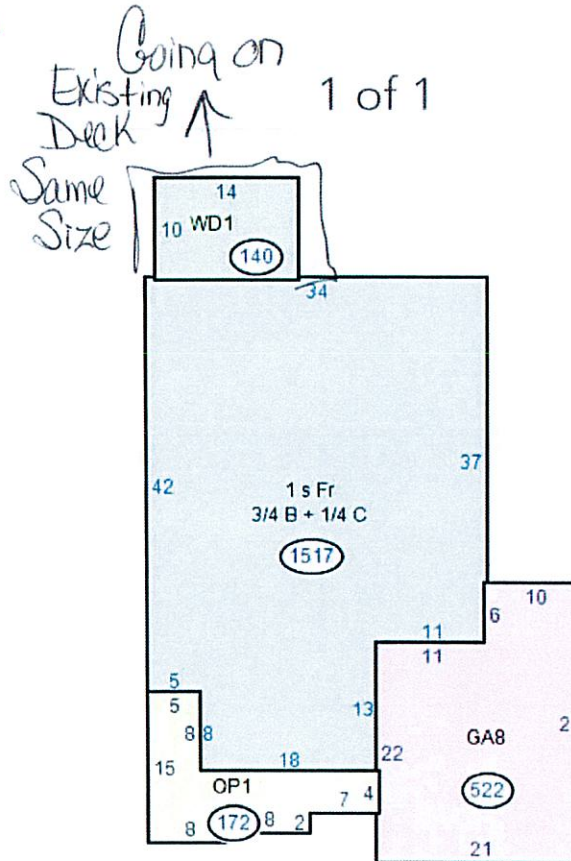
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2nd half taxes are due July 17, 2024

KEY

Single Family	1,517
GA8	522
OP1	172
WD1	140

*Mouse over row to isolate



FIND YOUR PARCEL

Owner

Trouble Searching?



053-172440-00.043
HARTSOUGH BRENT P &
JAMIE
169 STONE HEDGE ROW
DR
JOHNSTOWN, OH 43031

Acres: 0.37
LOT 40 LEAFY DELL SEC 1
AMENDED

Land: \$95,200
Improv: \$198,200
Total: \$293,400

Transfer Date: 10/22/2018
Amount: \$242,000
Conveyance: 3454
Valid Sale: Yes

Homestead: No
Owner Occ: **Yes**

Foreclosure: No
Certified Delq: No

169 Stone Hedge Row DR.



169 Stone Hedge Row DR.

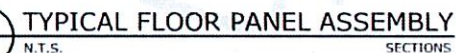
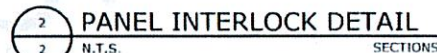
Room
on Deck

OSB - OSB FOAM PANELS MAY BE UTILIZED AS ROOF OR FLOOR PANELS AS REQUIRED.
BUILDING CODES & SPECIFICATIONS FOR DEFLECTION & LOADING REQUIREMENTS
APPLICABLE TO FLOORING ELEMENTS SHALL DIFFER FROM ROOF ELEMENT
REQUIREMENTS. REFER YOUR PROJECT SPECIFICATIONS OR CONSULT WITH YOUR
ENGINEER FOR MORE INFORMATION.

LEDGER DESIGN & CONNECTION
TO SUPPORT REACTIONS
IMPOSED BY LOADING FROM
FLOOR PANEL (LEDGER
CONNECTION DESIGN OF
ANCHOR TYPE, QUANTITY, &
LAYOUT BY OTHERS



SECTIONS



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NEWCASTLE-ONTARIO CANADA
TEL: (905) 987-2316

FOAM CORE ROOF & FLOOR PANEL SPANS
TESTS PER ICC-ES ACQ-4-08
ACCEPTANCE CRITERIA FOR SANDWICH PANELS

REMARKS	DRWN	CHKD	DATE
NET ISSUE (20-30053)	AEM	FLB	8/17/22
AUTOMATIC TESTING	CCB	FLB	8/17/22
FLOOR CONNECTION	CCB	FLB	8/17/22
2022 FBC	MLD	CCB	8/17/23

23-66706

SCALE: NTS UNLESS NOTED

2

SUNSPACE FOAM CORE ROOF PANEL	PANEL SIZE:	24" WIDTH, 4" THICKNESS PANEL	24" WIDTH, 4" THICKNESS PANEL	48" WIDTH, 4" THICKNESS PANEL	48" WIDTH, 4" THICKNESS PANEL	24" WIDTH, 6" THICKNESS PANEL	24" WIDTH, 6" THICKNESS PANEL	48" WIDTH, 6" THICKNESS PANEL	48" WIDTH, 6" THICKNESS PANEL
	TOP LAYER:	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM Skin	0.032" ALUMINUM Skin	0.032" ALUMINUM SKIN	0.032" ALUMINUM Skin
	FOAM CORE:	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM	1.5 LB EPS FOAM
	BOTTOM LAYER:	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM SKIN	0.032" ALUMINUM Skin	0.032" ALUMINUM Skin	0.032" ALUMINUM SKIN	0.032" ALUMINUM Skin
	CONNECTION SUPPORT:	WITH PRESSURE CAP PANEL	WITH PRESSURE CAP PANEL	WITH PRESSURE CAP PANEL	WITH I BEAM PANEL	WITH PRESSURE CAP PANEL	WITH I BEAM PANEL	WITH PRESSURE CAP PANEL	WITH I BEAM PANEL

The image contains two technical cross-section drawings of structural connections. The top drawing, titled 'PRESSURE CAP', shows a vertical assembly with a central 'PRESSURE CAP' and 'TOP PRESSURE CAP'. It is secured by a '#10 x 2" CAP SCREW 4" MIN EDGE DISTANCE, SPACED AT 12" O.C.'. The assembly includes '1.5LB DENSITY EPS CORE FOAM (SEE SPAN SCHEDULES)' and '0.032" ALUMINUM SKINS'. The 'PANEL DEPTH (SEE SPAN SCHEDULE)' is indicated. The bottom drawing, titled 'THERMAL I-BEAM', shows a vertical assembly with a central 'THERMAL I-BEAM' and 'TOP PRESSURE CAP'. It is secured by a '#6 x 1" TEK SCREW 4" MIN EDGE DISTANCE, SPACED AT 24" O.C. (TYP)'. The assembly includes '1.5LB DENSITY EPS CORE FOAM (SEE SPAN SCHEDULES)' and '0.032" ALUMINUM SKINS'. The 'PANEL DEPTH (SEE SPAN SCHEDULE)' is also indicated here.

PRESSURE CAP

1.5LB DENSITY
EPS CORE FOAM
(SEE SPAN SCHEDULES)

TOP PRESSURE CAP

0.032" ALUMINUM SKINS

PANEL DEPTH
(SEE SPAN SCHEDULE)

#10 x 2" CAP SCREW 4"
MIN EDGE DISTANCE,
SPACED AT 12" O.C.

BOTTOM
PRESSURE CAP

THERMAL I-BEAM

1.5LB DENSITY
EPS CORE FOAM
(SEE SPAN SCHEDULES)

TOP PRESSURE CAP

0.032" ALUMINUM SKINS

PANEL DEPTH
(SEE SPAN SCHEDULE)

#6 x 1" TEK SCREW 4" MIN
EDGE DISTANCE, SPACED
AT 24" O.C. (TYP)

THERMAL I-BEAM

PANEL INTERLOCK OPTIONS

THIS DOCUMENT CAN ONLY BE REUSED FOR
THIS PERMIT SUBMITTED BY: MAY 23, 2024
VALID ONLY FOR ZIP CODE: 43031
VALID ONLY FOR: SUBSISTANCE OF CENTRAL
OHIO LLC
P06648 CA 05706

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REMARKS	DRWN	CHKD	DATE
INT ISSUE (20-36053)	ATEM	FLB	01/17/20
ANNUAL TESTING	CCB	FLB	01/17/20
FLOOR CONNECTION	CCB	FLB	03/05/20
222 FIB	M.D.	CCB	11/14/23

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Copyright Engineering Experts

23-66706

SCALE: NTS UNLESS NOTED

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THIS DOCUMENT CAN ONLY BE USED FOR
ONE PERMIT SUBMITTED BY May 23, 2024
VALID ONLY FOR ZIP CODE 43031
VALID ONLY FOR: SUNSPACE OF CENTRAL
OHIO LLC
PERM038 CA 05706
This item has been digitally signed and verified by E&W
by MARCH03 on the date adjacent to the word "Printed" above.
If the document has not been consumed and signed, and otherwise
FRAUD ALERT: FINGERPRINTING HAS BEEN MOST RECENTLY
SCALE AND PLAN NUMBER HAVE A VERIFICATION CODE NUMBER
SUNSPACE OHIO IS REQUESTING: TO VERIFY
DETAILS OFS TO EXAMINER REPORT FREQUENT USE
OF THIS DOCUMENT TO:
TO KALAMAZOO COUNTY ENGINEERING & ARCHITECTS



The image contains two technical cross-section drawings of composite floor joists.

Top Drawing: PRESSURE CAP

- Top Layer:** 1.5LB DENSITY EPS CORE FOAM (SEE SPAN SCHEDULES)
- Top Surface:** TOP PRESSURE CAP 0.032" ALUMINUM SKINS
- Bottom Surface:** BOTTOM PRESSURE CAP
- Fasteners:** #10 x 2" CAP SCREW 4" MIN EDGE DISTANCE, SPACED AT 12" O.C.
- Other Labels:** 1/2" OSB, PANEL DEPTH (SEE SPAN SCHEDULE)

Bottom Drawing: THERMAL I-BEAM

- Top Layer:** 1.5LB DENSITY EPS CORE FOAM (SEE SPAN SCHEDULES)
- Top Surface:** TOP PRESSURE CAP 0.032" ALUMINUM SKINS
- Bottom Surface:** THERMAL I-BEAM
- Fasteners:** #6 x 1" TEK SCREW 4" MIN EDGE DISTANCE, SPACED AT 24" O.C. (TYP)
- Other Labels:** 1/2" OSB, PANEL DEPTH (SEE SPAN SCHEDULE)

PANEL INTERLOCK DETAIL

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SUNDANCE MODULAR ENCLOSURES, INC.
300 TORONTO STREET
NEWCASTLE-ONTARIO CANADA
TEL: (905) 987 - 2316

FOAM CORE ROOF & FLOOR PANEL SPANS
TESTS PER ICC-ES ACQ-4-08
ACCEPTANCE CRITERIA FOR SANDWICH PANELS

REMARKS	DRWN	CHKD	DATE
INT SIZE (XO 20X55)	AEI	FLB	6/17/23
NOTIONAL TESTING	CCB	FLB	6/17/23
POWER CONNECTION	CCB	FLB	3/06/23
232C FPC	MLD	CCB	11/14/23

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23-66706

SCALE: NITS UNLESS NOTED

4

11/17/2023 1:59 PM MATT NEW c:\users\matthew\engineering\excess\production - documents\projects\23-23-66706\survscan app team core rod panel 2023 update.dwg

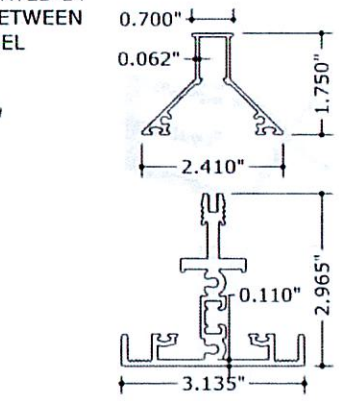
[illegible][illegible]

MAX PANEL WIDTH = 2'-0"

MAX T-BAR SPAN W/ NO SCREWS

MAX OVERHANG = 2'-0"

ACRYLIC PANELS TO BE SUPPORTED BY T-BARS BETWEEN EACH PANEL



4
TYPICAL T-BAR AT SIDE FASCIA

MAX ALLOWABLE OVERHANG = 2'-0" IN ALL CASES

SUNDANCE MODULAR ENCLOSURES, INC.
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REMARKS	DRWN	CHKD	DATE
INT ISSUES (20-2655)	AEM	FLB	11/17/20
ADDITIONAL TESTING	CCB	FLB	11/17/22
FLOOR CONNECTION	CCB	FLB	3/09/23
2023 FRC	MJD	CCB	11/14/23

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ULT WIND SPEED: 160 MPH; EXPOSURE CATEGORY: C; GROUND SNOW LOAD: UP TO 60 PSF
REFER DESIGN TABLES HEREIN FOR SYSTEM REQUIREMENTS UNDER VARIOUS DESIGN CONDITIONS



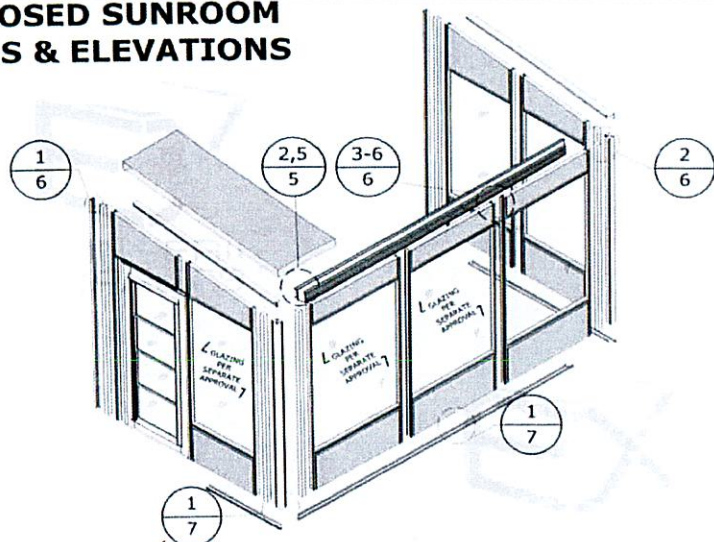
1. COVER & DESIGN CRITERIA
2. ENGINEER'S NOTES
3. SYSTEM VIEWS - ALLOWABLE SIZES AND DIMENSIONS
4. ALLOWABLE DESIGN TABLE
5. TYPICAL CONNECTION DETAILS
6. TYPICAL CONNECTION DETAILS
7. ANCHORAGE TO HOST
8. SYSTEM COMPONENTS



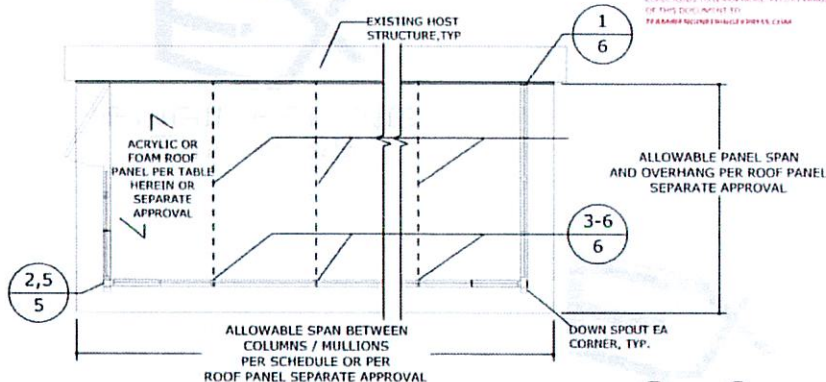
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Page 26 of 79

ENCLOSED SUNROOM PLANS & ELEVATIONS

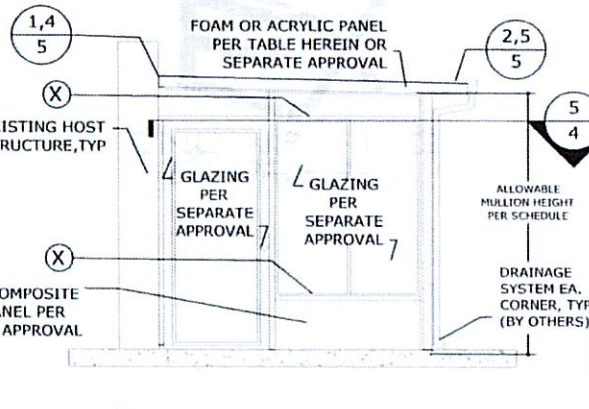
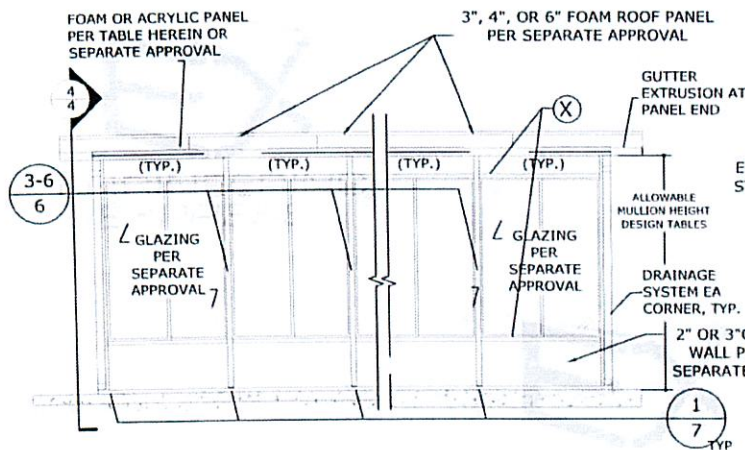


ROOF PANEL SELECTION NOTE:
SUNSPACE ALUMINUM - ALUMINUM SKINNED PANELS, OSB-ALUMINUM SKINNED PANELS, OR ACRYLIC PANELS SHALL BE ACCEPTABLE WITH ADDITIONAL CERTIFIED ALLOWABLE PANEL SPAN ENGINEERING. REFER DESIGN TABLES HEREIN FOR REQUIRED DESIGN PRESSURES FOR INSTALLATION IN VARIOUS WIND / SNOW CONDITIONS



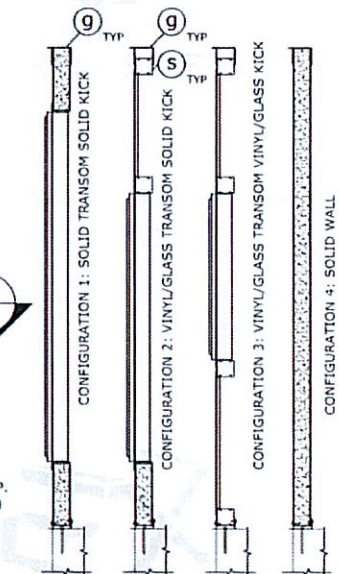
1 SLOPED ROOF SUNROOM ENCLOSURE
3 NOT TO SCALE ISO VIEW

2 SLOPED ROOF SUNROOM ENCLOSURE
3 NOT TO SCALE PLAN VIEW



3 SLOPED ROOF SUNROOM ENCLOSURE
3 NOT TO SCALE FRONT ELEVATION

4 SLOPED ROOF SUNROOM ENCLOSURE
3 NOT TO SCALE SIDE ELEVATION



5 SIDE WALL CONFIGURATION OPTIONS
3 NOT TO SCALE PLAN SECTION

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PROJECT: 23-66701
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REC 774 (2020) & 874 (2021) EDITIONS, INC. (2018 & 2021)

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REC 774 (2020) & 874 (2021) EDITIONS, INC. (2018 & 2021)

REMARKS
DRAWN: CHD
DATE: 12/01/21
CCB: AEM
CLV: CCB
REC 774 (2020) & 874 (2021) EDITIONS, INC. (2018 & 2021)

23-66701
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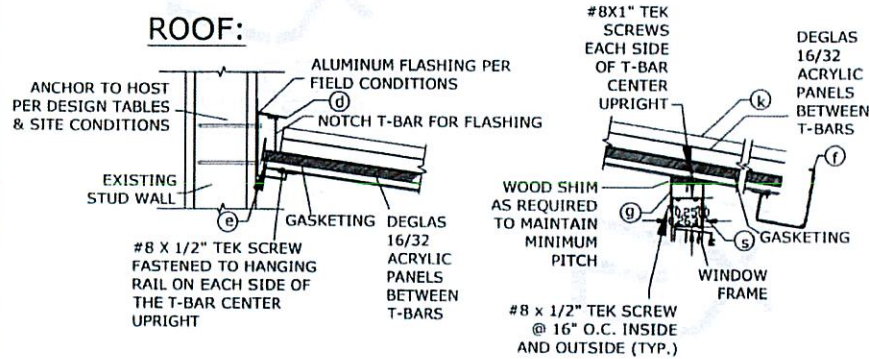
3

Page 29 of 79

ASSEMBLY & CONNECTIONS

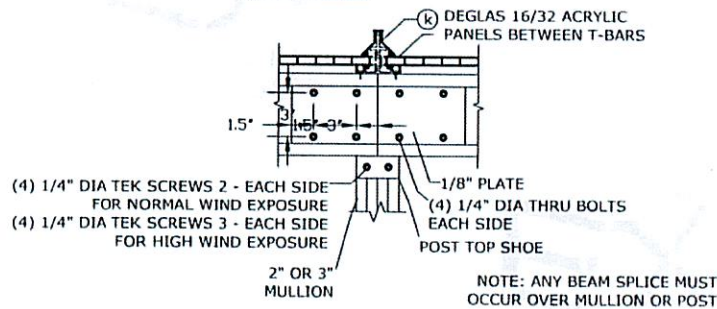
ACRYLIC PANELS:

ROOF:



- 1 ROOF TO EXISTING BLDG - STUDIO
5 NOT TO SCALE VIEW
- 2 ROOF TO WALL PANEL AT EAVE
5 NOT TO SCALE VIEW

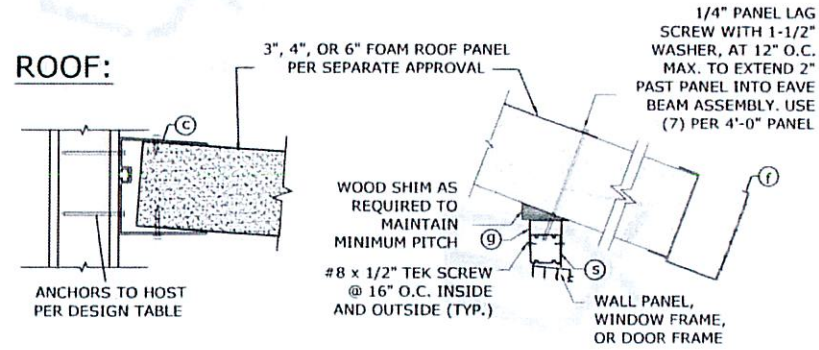
PANELS:



- 3 BEAM SPLICE CONNECTION
5 NOT TO SCALE VIEW

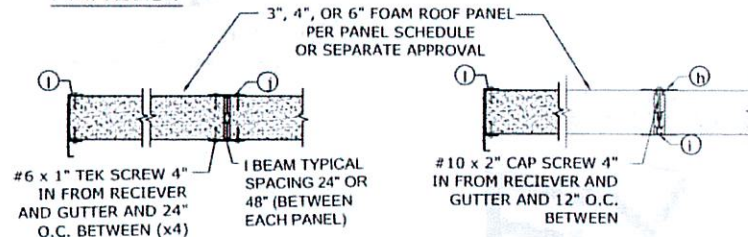
FOAM PANELS:

ROOF:



- 4 ROOF TO EXISTING BLDG
5 NOT TO SCALE VIEW
- 5 ROOF TO WALL PANEL AT EAVE
5 NOT TO SCALE VIEW

PANELS:



- 6 ROOF PANEL TO ROOF PANEL
5 NOT TO SCALE VIEW
- 7 ROOF PANEL TO ROOF PANEL
5 NOT TO SCALE VIEW

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FIG. 774 (2020) & FIG. 1203 (2023) EDITIONS (ISC: 2019 & 2021)

DRWN: CHM DATE: 12/01/21
CHK: AEM 12/01/21
CLV: CDB 11/25/23
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ASSEMBLY & CONNECTIONS

WALLS:

WALL CHANNEL CONCRETE ATTACHMENT

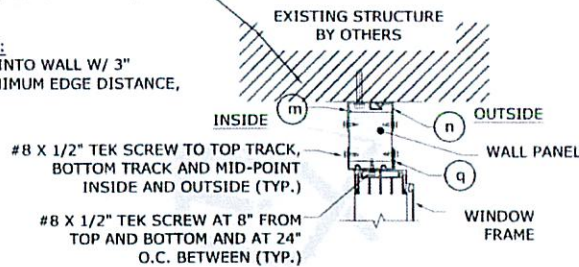
[2] 1/4" Ø ITW STAINLESS STEEL TAPCON INTO WALL W/ 3" EMBEDMENT AND 3" EDGE DISTANCE, SPACED 16" O.C.

WALL CHANNEL GROUT-FILLED CMU ATTACHMENT:

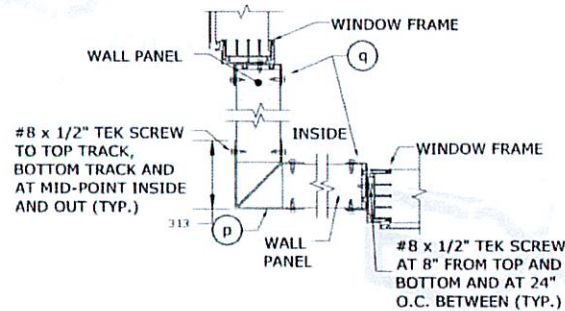
[2] 1/4" Ø S.S. HILTI KWIK-CON II+ INTO BLOCK FACE W/ 1-3/4" EMBEDMENT AND 3" MINIMUM EDGE DISTANCE, SPACED 16" O.C.

WALL CHANNEL WOOD ATTACHMENT:

[2] 1/2" Ø S.S. WOOD LAG SCREWS INTO WALL W/ 3" THREAD ENGAGEMENT AND 3/4" MINIMUM EDGE DISTANCE, SPACED 16" O.C. MIN

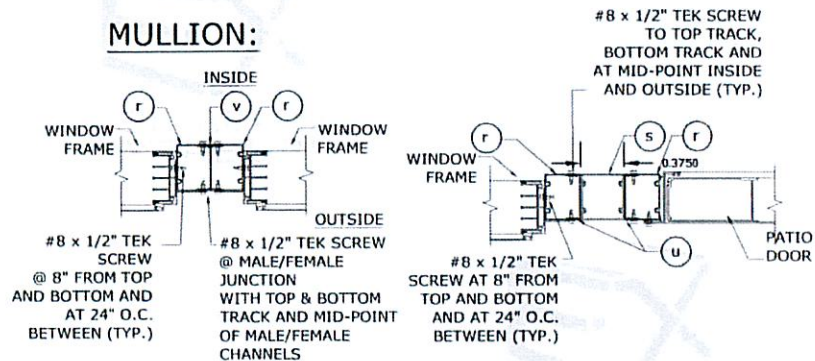


1 WALL PANEL TO HOST SIDE WALL
6 NOT TO SCALE VIEW

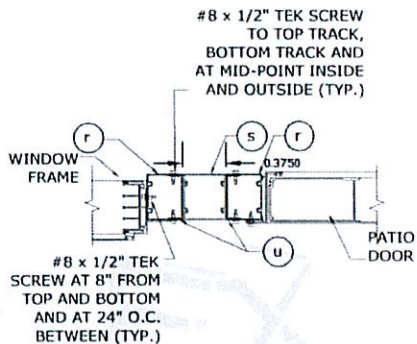


2 CORNER COLUMN
6 NOT TO SCALE VIEW

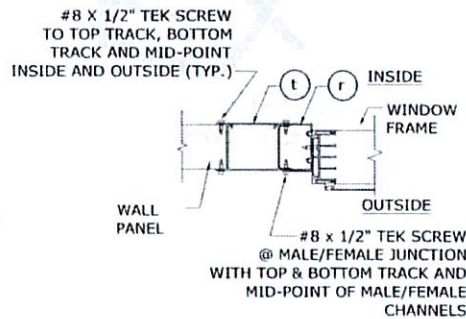
MULLION:



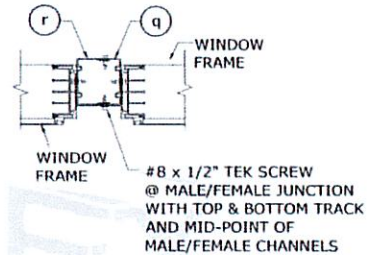
3 MULLION TO WINDOW
6 NOT TO SCALE VIEW



4 MULLION TO WINDOW/DOOR
6 NOT TO SCALE VIEW



5 MULLION TO WALL/WINDOW
6 NOT TO SCALE VIEW



6 MULLION TO WINDOW
6 NOT TO SCALE VIEW

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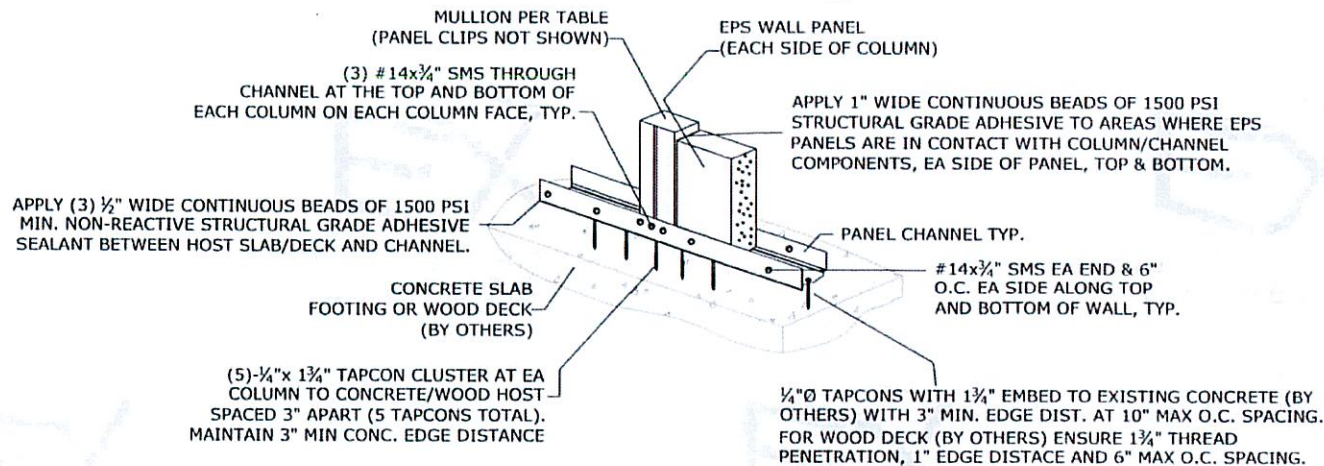
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FIG. 77H (2020) & FIG. 1 (2021) EDITIONS, INC. (2018 & 2021)

REMARKS: DOWN CHD. DATE
CDS: AEM 1/20/21
CCLV: CCB 1/2/23
FIG. 2366701 (23-66701)
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ANCHORAGE TO EXISTING HOST



1 PANEL WALL AND MULLION ANCHORAGE
7 SCALE: 1" = 12" 150

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GENERAL PERFORMANCE EVALUATION
FBC 7th (2020) & 8th (2021) EDITIONS, INC. (2018 & 2021)

REMARKS	DRWN	CHKD	DATE
INT ISSUE (05/20/21)	CCB	AEV	12/01/21
REV 001 (05/20/21)	CLV	CCB	11/29/22
REV 002 (05/20/21)	CLV	CCB	11/29/22
REV 003 (05/20/21)	CLV	CCB	11/29/22
REV 004 (05/20/21)	CLV	CCB	11/29/22
REV 005 (05/20/21)	CLV	CCB	11/29/22
REV 006 (05/20/21)	CLV	CCB	11/29/22
REV 007 (05/20/21)	CLV	CCB	11/29/22
REV 008 (05/20/21)	CLV	CCB	11/29/22
REV 009 (05/20/21)	CLV	CCB	11/29/22
REV 010 (05/20/21)	CLV	CCB	11/29/22

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ROOF
MEMBERS:



PANEL CONNECTION MEMBERS

CONNECT VIA #8 x 1/2" SCREW TYP

0.08"

3 3/4"

(h) TOP PRESSURE CAP &

0.10"

3" OR 4" OR 5"

(i) BOTTOM PRESSURE CAP

3 3/4"

0.10"

3" OR 4" OR 5"

(j) 3", 4", 6" THERMAL I-BEAM

T-BAR CAP

4 11/16"

3" OR 4" OR 5"

(k) ACRYLIC T-BAR

0.08"

3" OR 4" OR 5"

(l) 3", 4", 6" FASCIA

Technical drawings of three types of corner caps:

- (m) 2" STARTER SPL. & (n) STARTER CAP: Shows a cross-section of a corner cap with a 0.08" gap and a 2" dimension.
- (o) 2", 3" BOTTOM TRACK: Shows a cross-section of a bottom track with a 0.08" gap, a 1 7/8" dimension, and a 2" OR 3" dimension.
- (p) 90 DEG CORNER 2": Shows a cross-section of a 90-degree corner cap with a 0.08" gap and a 2" dimension.

q 2", 3" FEMALE CHANNEL

r 2", 3" MALE CHANNEL

s 2", 3" BOX CHANNEL

t 2" E-CHASE CHANNEL

u 2" PANEL RECIEVER

v 2" H-CHANNEL

W MALE/FEMALE MULLION

Dimensions: 2" OR 3" (width), 2" OR 3" (height). Callouts: r (radius), q (mullion).

X MULLION WITH INSERT

Dimensions: 2" OR 3" (width), 2 1/4" (height). Callouts: r (radius), q (mullion), 0.125" MULLION INSERT TYP (insert).

Y H CHANNEL MULLION

Dimensions: 2" OR 3" (width), 2" OR 3" (height). Callouts: r (radius), v (channel).

Z E-CHASE COLUMN

Dimensions: 2" OR 3" (width), 2" OR 3" (height). Callouts: r (radius), v (channel).

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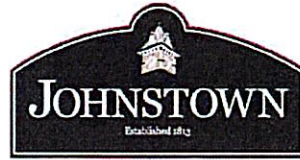
REMARKS	DRWN	CHKD	DATE
INT ISSUE (20-78526)	CCB	ADM	12/01/21
ESC 2023 (23-66771)	CLV	CCB	11/29/23
	-	-	-
	-	-	-
	-	-	-

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PAID
AUG 12 2024
JOHNSTOWN, OHIO

CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 7-2-10 Date: 7/2/2024

FEES:

Base Fee: \$ 300

Total Fee Amount: \$ 300 Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Cris Geiser Phone: (330) 600-2593
2. Property Address: 300 Hanebrink Ave City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: Cgeiser15@gmail.com
4. Business Owner's Name: CCE HOA Phone: () -
5. Contractor's Name: Schlabeck Builders Phone: (330) 600-2593
6. Principal Business Activity: HOA Club House and pool
7. Existing Use of Property: HOA community area
8. Square Footage of Proposed Building or Business: 816 ^{Pavilion} sq. ft. 3216 total
2400 pad for Pickleball Ct
9. Zoning District: _____ Number of Off-Street Parking Spaces: 15
10. Estimated Cost of Improvements: \$ 300.000

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- (Conditional) Eight full sets (11x17) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

List of Materials that will be used on the project:

1. CONCRETE
2. _____
3. Pavement
4. _____
5. Stick frame materials
6. _____
7. _____
8. _____

List of Contiguous Neighbors and Addresses:

- | | | | | |
|---------------------------|--------------------------|------------------|-----------|--------------|
| 1. <u>HoA Association</u> | <u>300 Henebrink Ave</u> | <u>Johnstown</u> | <u>OH</u> | <u>43031</u> |
| Neighbor's Name | Neighbor's Address | | State | Zip Code |
| 2. _____ | _____ | _____ | State | Zip Code |
| Neighbor's Name | Neighbor's Address | | State | Zip Code |
| 3. _____ | _____ | _____ | State | Zip Code |
| Neighbor's Name | Neighbor's Address | | State | Zip Code |
| 4. _____ | _____ | _____ | State | Zip Code |
| Neighbor's Name | Neighbor's Address | | State | Zip Code |

The undersigned is applying for a Certificate of Appropriateness Permit for the following use: said permit is to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable laws.

Applicant's Signature: x *Ciri Deia* Date: 6 / 25 / 24

OFFICE USE ONLY:

Date Received in Office: 7 / 2 / 2024 By: T. Wymer

Date of Planning and Zoning Commission Meeting: 7 / 23 / 24

Date Permit Approved or Denied by Planning Commission: / /

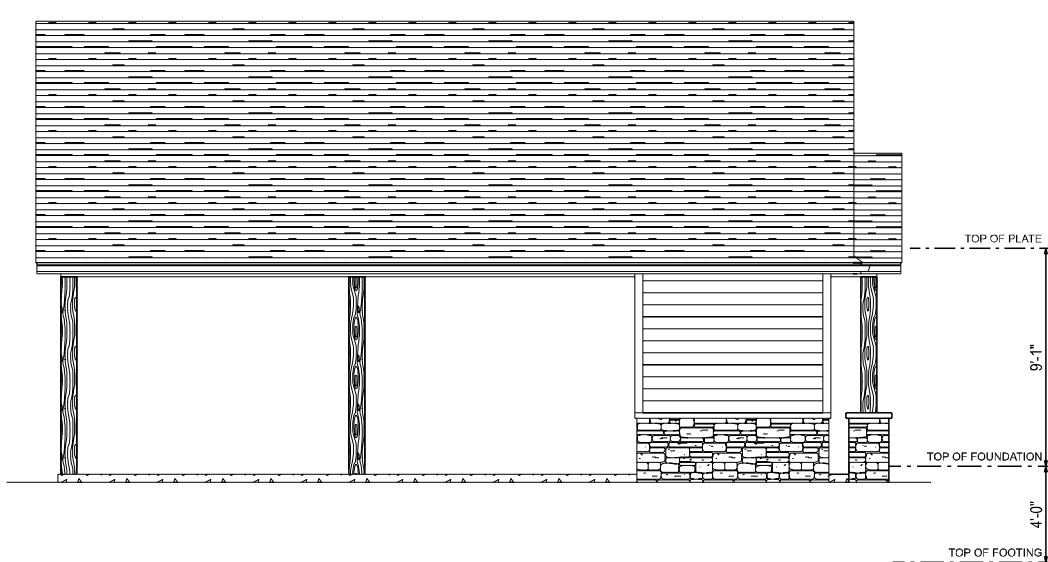
Conditions Necessary for Approval: _____

City Manager Signature: x _____

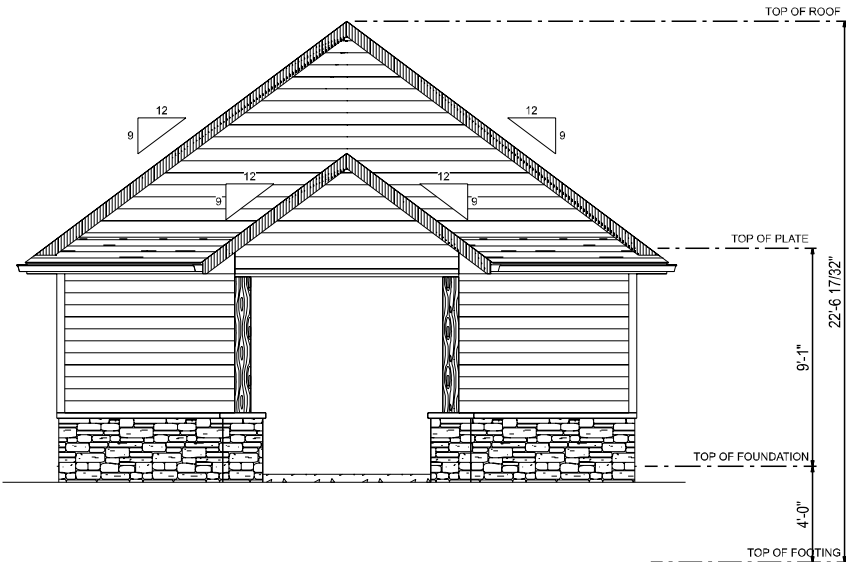
CCE PAVILION & COMMON AREA IMP. #3544

300 HANEBRINK AVE.
JOHNSTOWN, OH 43031

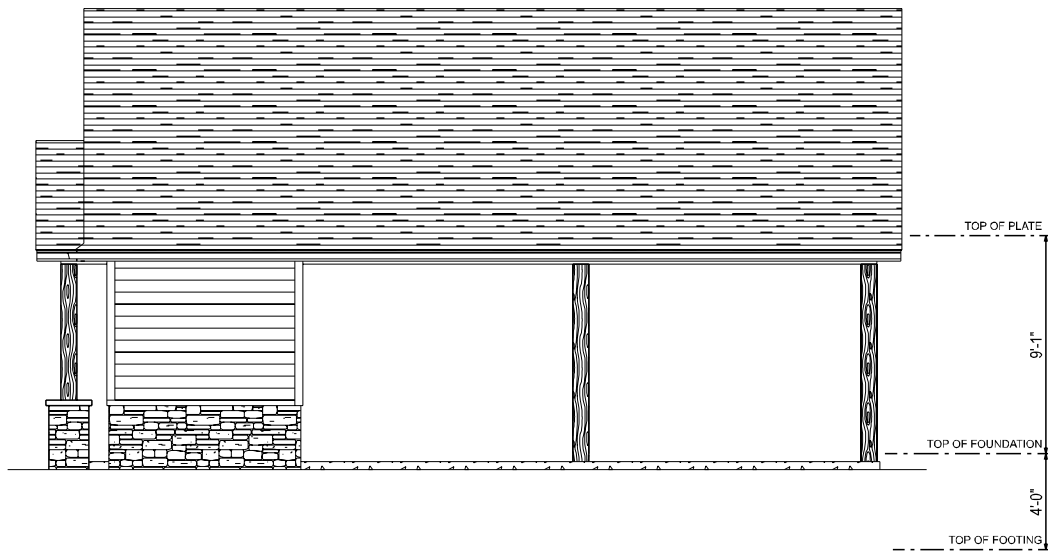
LICKING CO.



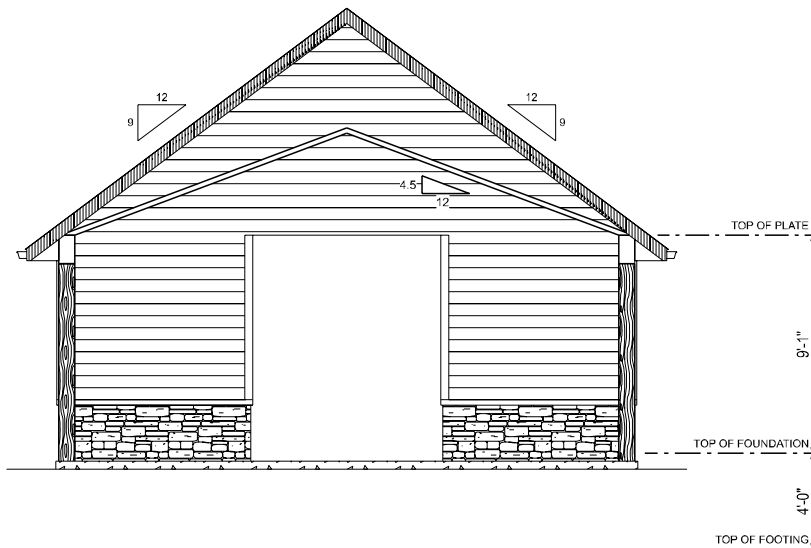
LEFT ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

MATERIAL & COLOR SCHEDULE
SIDING-
DBL-4" VINYL SIDING (COLOR-ALABASTER) WITH WHITE CORNER PIECES TO MATCH CLUB HOUSE
SOFFIT/CEILING-
WHITE ALUMINUM
TRIM & FACIA COVER-
WHITE ALUMINUM
SUPPORT POSTS-
8' WHITE VINYL WITH DECORATIVE TRIM (CHANGE 2 EXISTING PORCH POSTS ON CLUB HOUSE TO MATCH)
STONE-
PENNSYLVANIA WEATHERLEDGE WITH 59-J PUEBLO MORTAR
ROOFING-
LANDMARK DRIFTWOOD ASPHALT SHINGLES

AREA SCHEDULE	
NAME	AREA
BATHROOMS	128 sq ft.
PATIO	659 sq ft.

DRAWING SCHEDULE	
PAGE	DRAWING(S)
1	ELEVATIONS
2	FLOOR PLANS
3	ROOF-PLUMBING-SEC.

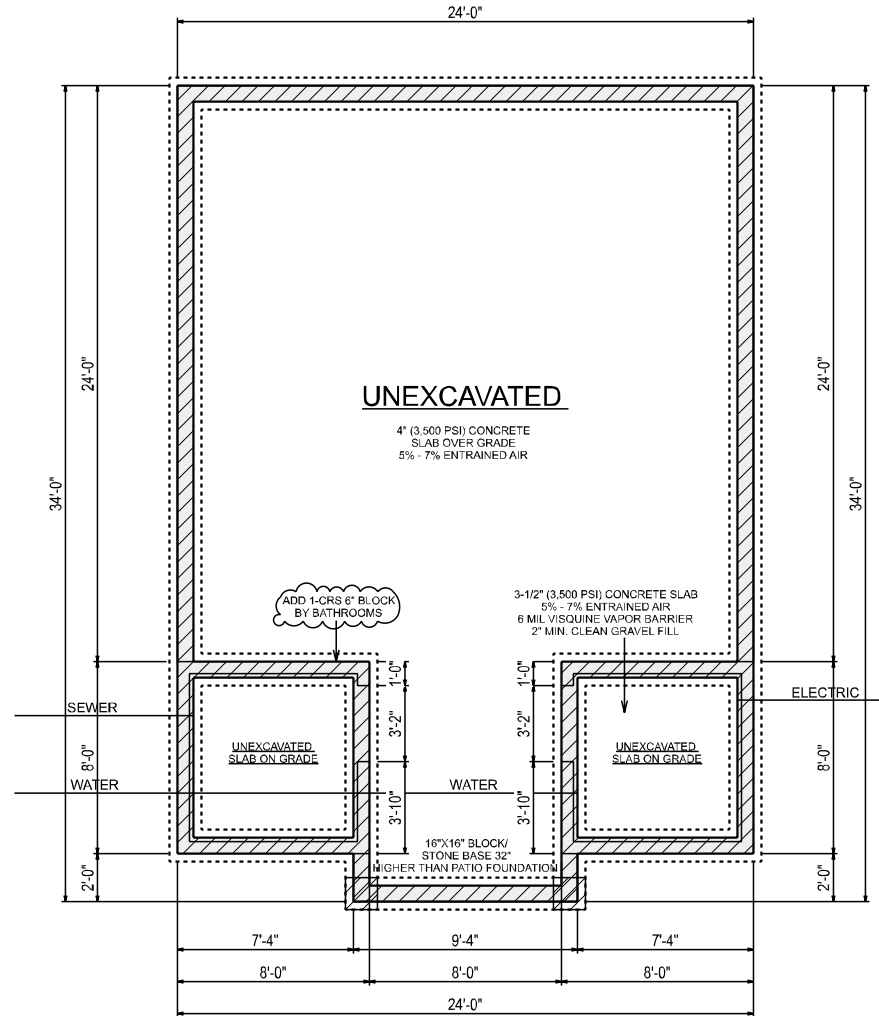
PAGE: 1/4

DRAWN BY: PAUL M.
SCALE: 1/8" = 1'-0"
DATE: Wednesday, July 24, 2024
PLAN #: CUSTOM

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE
SUPERVISOR: MARVIN MILLER 330-763-3010

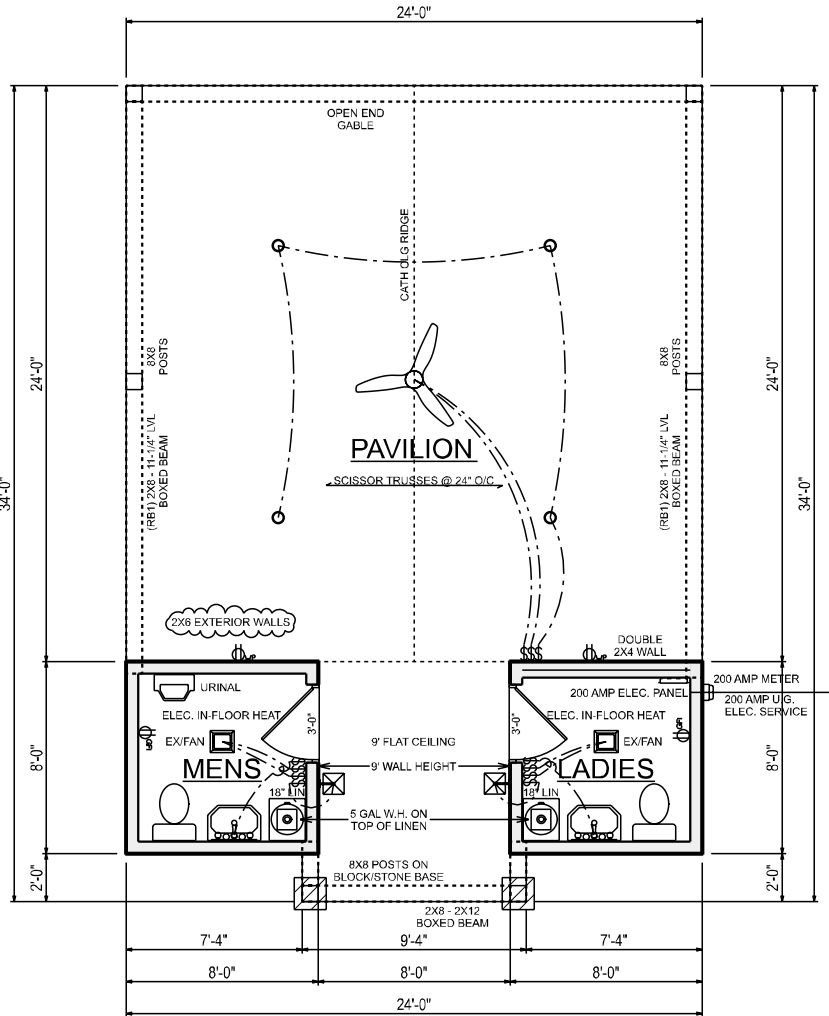
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MILLERSBURG
OH 44654
330.674.9386



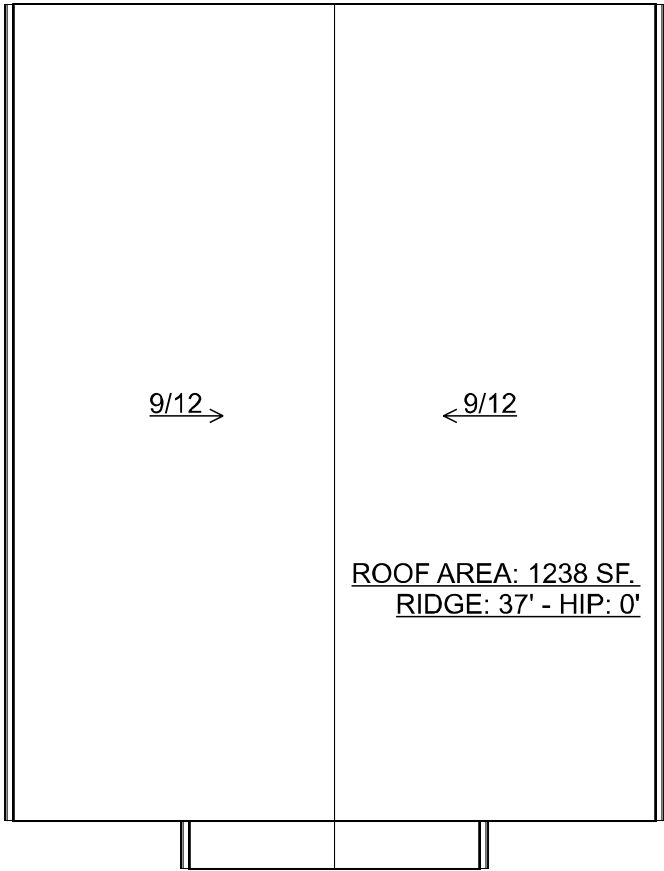


- BLOCK FOUNDATION NOTES**
1. 8" MASONRY BLOCK
#4 REBAR @ 40" O/C
 2. 6" (3,000 PSI) CONCRETE FOOTINGS
5% - 7% ENTRAINED AIR
TO BE 4" WIDER THAN WALL ON
EACH SIDE (MIN. 16")
 3. CENTER ALL FOUNDATION WALLS ON
FOOTINGS
 4. BOTTOM OF EACH FOOTING TO BE MIN.
36" BELOW NEAREST SOLID UNDISTURBED
EARTH TO AVOID FROST HEAVE
 5. DO NOT BACKFILL AGAINST BASEMENT
WALLS UNTIL FLOOR FRAMING OR
APPROPRIATE SHORING IS IN PLACE TO
PREVENT WALL CAVE-IN
 6. SOIL BEARING = 1,500 PSF

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



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



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

ROOF PLAN NOTES

1. ROOF CONSTRUCTION: 7/16" OSB SHEATHING W/ H-CLIPS ON TRUSSES @ 24" O/C

2. PROVIDE MULTIPLE STUDS DIRECTLY BELOW MULTIPLE MEMBER LINTELS

3. TRUSSES TO BE DESIGNED BY STARK TRUSS, STARK TRUSS TO PROVIDE DATA & LAYOUT

4. ROOF DESIGN LOAD 25 PSF LL, ROOF DESIGN LOAD 20 PSF DL

5. ROOF OVER-FRAMING: RIDGE BOARD SHALL NOT BE LESS IN DEPTH THAN CUT END OF RAFTER. AT HIPS AND VALLEYS THERE SHALL BE A HIP OR VALLEY RAFTER NOT LESS THAN THE CUT END OF RAFTER. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A BRACE BEARING PARTITION OR BE DESIGNED TO DISTRIBUTE THE LOAD.

6. ICE GUARD IN VALLEYS AND PERIMETER OF ROOF, 24" BEYOND INSIDE OF EXT. WALLS

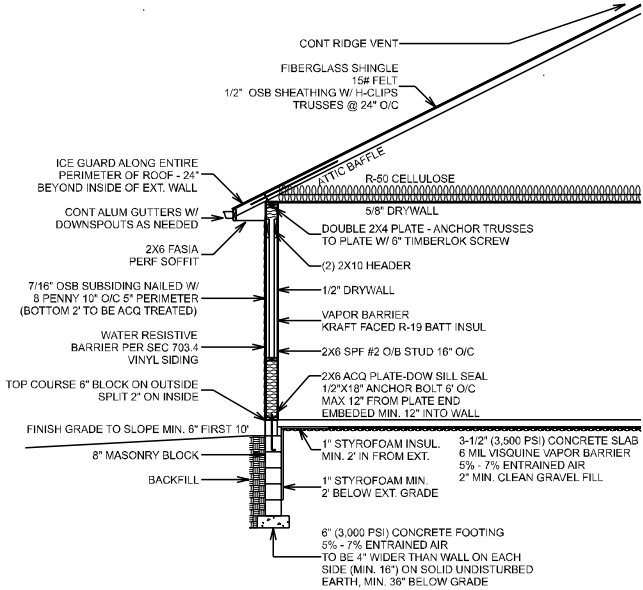
RAFTER SPAN CHART

SPF #2 O/B - UNIFORM LOAD 25-LIVE-20 DEAD

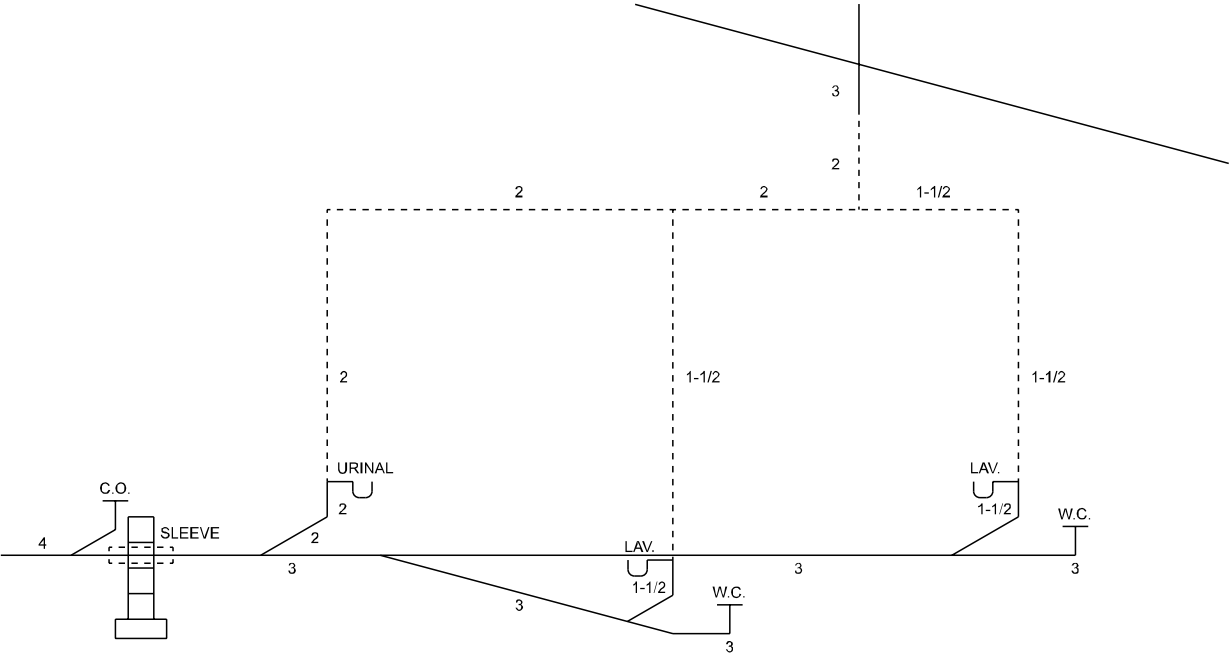
2X6S @ 24" O/C - 9'-9" MAX

2X8S @ 24" O/C - 12'-4" MAX

2X10S @ 24" O/C - 15'-1" MAX



CROSS SECTION (TYP) SLAB
SCALE: 1/8" = 1'-0"



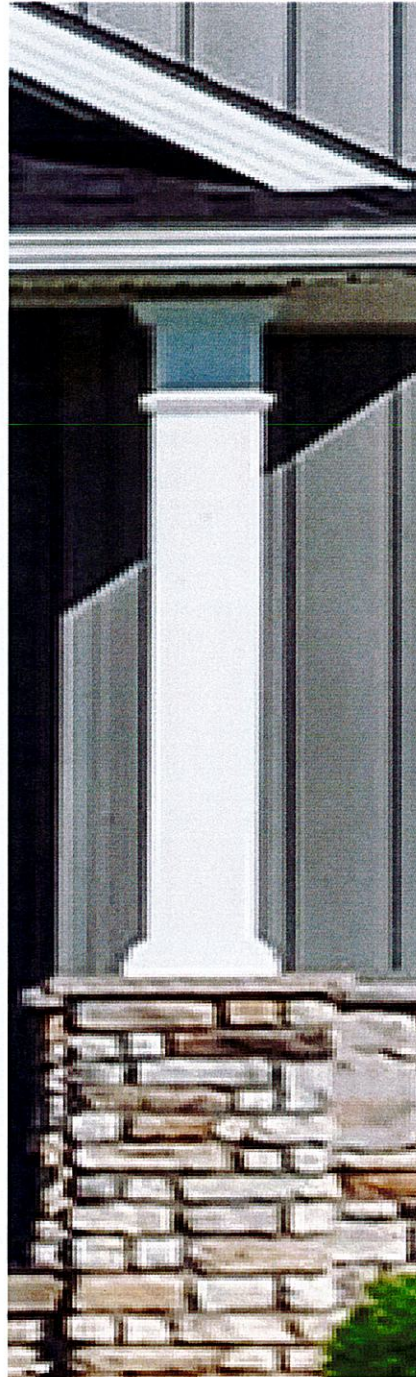
PLUMBING
SCALE: NOT TO SCALE

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SCALE: As Noted
DATE: Wednesday, July 24, 2024
PLAN #: CUSTOM

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SUPERVISOR: MARVIN MILLER 330-763-3010

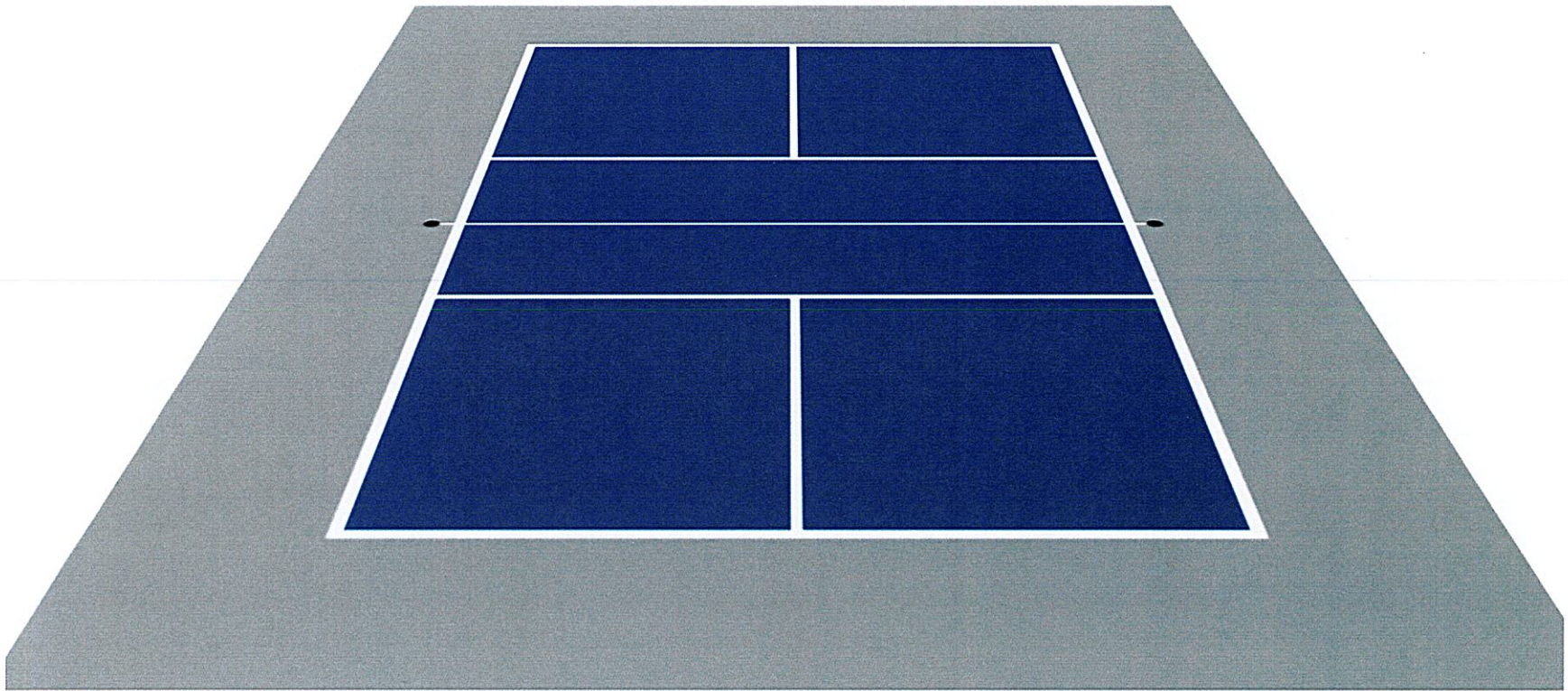
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GENERAL NOTES

- 1.1.1

PROJECT NOTES:
- 1.1.2

THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- 1.1.3

THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 1.1.4

GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.41(B)
- 1.1.5

ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4:
PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519
COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- 1.1.6

MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.7

ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
- 1.1.8

ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 1.2.1

SCOPE OF WORK:
- 1.2.2

PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.
- 1.3.1

WORK INCLUDES:
- 1.3.2

PV ROOF ATTACHMENTS - S15 SOLARFOOT
- 1.3.3

PV RACKING SYSTEM INSTALLATION - SUNPOWER INVISIMOUNT
- 1.3.4

PV MODULE AND INVERTER INSTALLATION -
WAAREE ARKA SERIES WSMDI-405 / ENPHASE IQ7HS-66-M-US
- 1.3.5

PV EQUIPMENT GROUNDING
- 1.3.6

PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
- 1.3.7

PV LOAD CENTERS (IF INCLUDED)
- 1.3.8

PV METERING/MONITORING (IF INCLUDED)
- 1.3.9

PV DISCONNECTS
- 1.3.10

PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.3.11

PV FINAL COMMISSIONING
- 1.3.12

(E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.3.13

SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

SCOPE OF WORK

SYSTEM SIZE: STC: 26 X 405W = 10.530KW
 PTC: 26 X 379.47W = 9.866KW
 (26) WAAREE ARKA SERIES WSMDI-405
 (26) ENPHASE IQ7HS-66-M-US

ATTACHMENT TYPE: S15 SOLARFOOT

MSP UPGRADE: NO

NEW PV SYSTEM: 10.530 kWp
SHIRA RESIDENCE

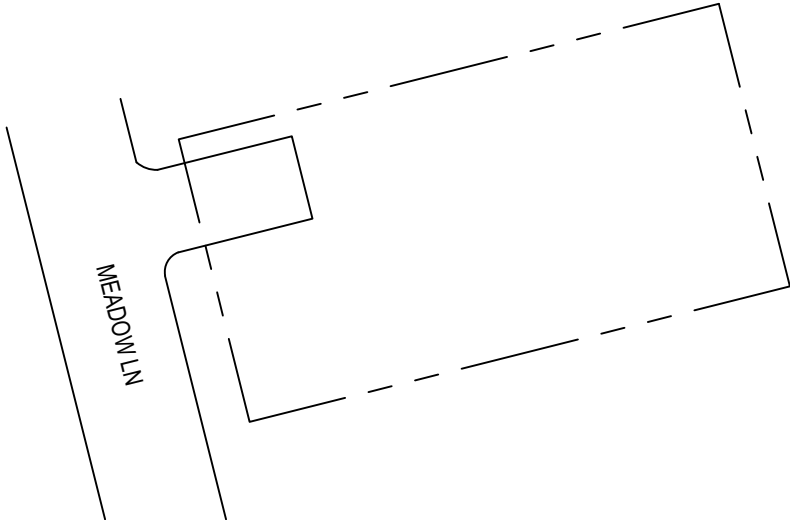
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ASSESSOR'S #: 03151651406201085000



01

AERIAL PHOTO

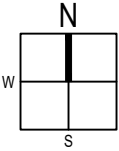
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02

PLOT MAP

NOT TO SCALE



SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
T-001.00	COVER PAGE
G-001.00	NOTES
A-101.00	SITE PLAN
A-102.00	ELECTRICAL PLAN
A-103.00	SOLAR ATTACHMENT PLAN
A-104.00	ELEVATION PLAN
E-601.00	LINE DIAGRAM
E-602.00	DESIGN TABLES
E-603.00	PLACARDS
S-501.00	ASSEMBLY DETAILS
R-001.00	RESOURCE DOCUMENT
R-002.00	RESOURCE DOCUMENT
R-003.00	RESOURCE DOCUMENT
R-004.00	RESOURCE DOCUMENT
R-005.00	RESOURCE DOCUMENT

PROJECT INFORMATION

OWNER

NAME: AARON SHIRA
PHONE:
E-MAIL:

PROJECT MANAGER

NAME: TIM TELESZ
PHONE: 6144195242

CONTRACTOR

NAME: N3 ENERGY
PHONE: 7407476527

AUTHORITIES HAVING JURISDICTION

BUILDING: LICKING COUNTY
ZONING: LICKING COUNTY
UTILITY: AEP

DESIGN SPECIFICATIONS

OCCUPANCY: II
CONSTRUCTION: SINGLE-FAMILY
ZONING: RESIDENTIAL
GROUND SNOW LOAD: 20 PSF
WIND EXPOSURE: B
WIND SPEED: 115 MPH

APPLICABLE CODES & STANDARDS

BUILDING: IBC 2018, IRC 2018
ELECTRICAL: NEC 2017
FIRE: IFC 2018



CONTRACTOR

N3 ENERGY

PHONE: 7407476527
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 POWELL, OH 43065

LIC. NO.: 49281

HIC. NO.:

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NEW PV SYSTEM: 10.530 kWp

SHIRA
RESIDENCE

82 MEADOW LN,
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APN: 03151651406201085000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

COVER PAGE

DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

T-001.00

	A	B	C	D	E	F	G	H
1	2.1.1	<u>SITE NOTES:</u> A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES. THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION NEC 110.26. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.	2.5.6	EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119] THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.41(B)(1) AND (2) TO REDUCE FIRE HAZARDS				
	2.1.2		2.5.7					
	2.1.3		2.5.8					
	2.1.4		2.5.9					
	2.1.5		2.5.10					
	2.1.6							
2	2.2.1	<u>EQUIPMENT LOCATIONS:</u> ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLE 310.15 (B)(2)(A). JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.	2.6.1	<u>DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:</u> DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS). DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12(A) THROUGH (D). ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240. MICROINVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B). IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.	2.6.2			
	2.2.2		2.6.3					
	2.2.3		2.6.4					
	2.2.4		2.6.5					
	2.2.5		2.6.6					
	2.2.6							
3	2.2.7	<u>STRUCTURAL NOTES:</u> RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS. JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS. ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER. WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.	2.6.7		2.7.1			
	2.3.1		2.6.7		2.7.2			
	2.3.2				2.7.3			
	2.3.3							
	2.3.4							
	2.3.5							
4	2.3.6	<u>WIRING & CONDUIT NOTES:</u> ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7. VOLTAGE DROP LIMITED TO 1.5%. DC WIRING LIMITED TO MODULE FOOTPRINT. MICROINVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/ SUITABLE WIRING CLIPS. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL- WHITE OR GRAY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].	2.7.4	<u>INTERCONNECTION NOTES:</u> LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 705.12 (B)] THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(B)(2)(3)]. AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12 (B)(2)(3)(C). FEEDER TAP INTERCONNECTION (LOAD SIDE) ACCORDING TO NEC 705.12 (B)(2)(1) SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42 BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (B)(5)].	2.7.5			
	2.4.1		2.7.6					
	2.4.2							
	2.4.3							
	2.4.4							
	2.4.5							
5	2.4.6	<u>GROUNDING NOTES:</u> GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVICES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A). EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND MICROINVERTER MANUFACTURERS' INSTRUCTIONS.	2.7.7					
	2.5.1							
	2.5.2							
	2.5.3							
	2.5.4							
	2.5.5							
6								



CONTRACTOR

N3 ENERGY

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NEW PV SYSTEM: 10.530 kWp

SHIRA RESIDENCE

82 MEADOW LN,
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APN: 03151651406201085000

ENGINEER OF RECORD

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NOTES

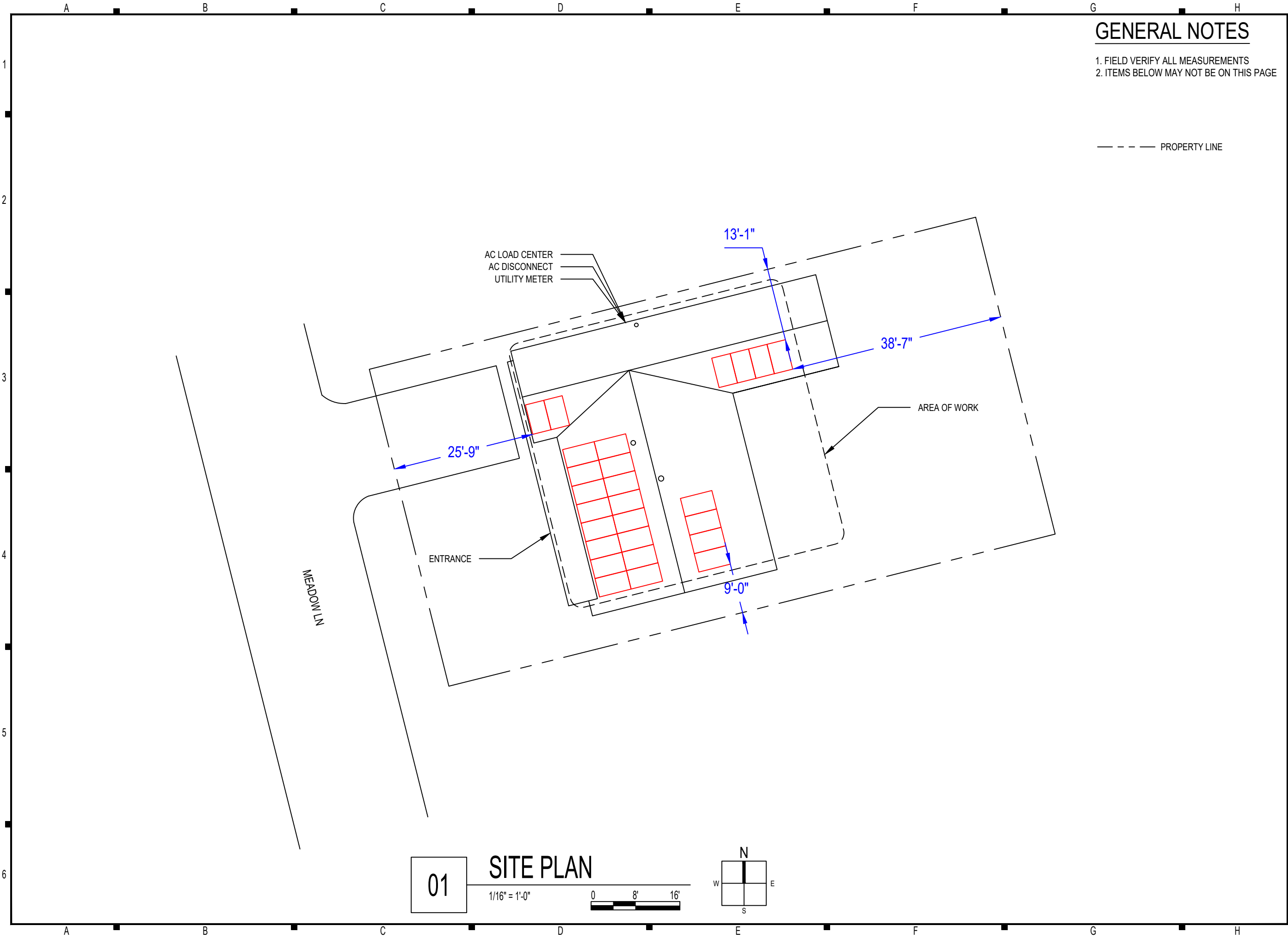
DATE: 08.01.2024

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CHECKED BY: M.M.

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APN: 03151651406201085000

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SITE PLAN

DATE: 08.01.2024

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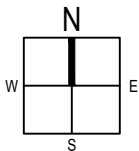
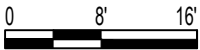
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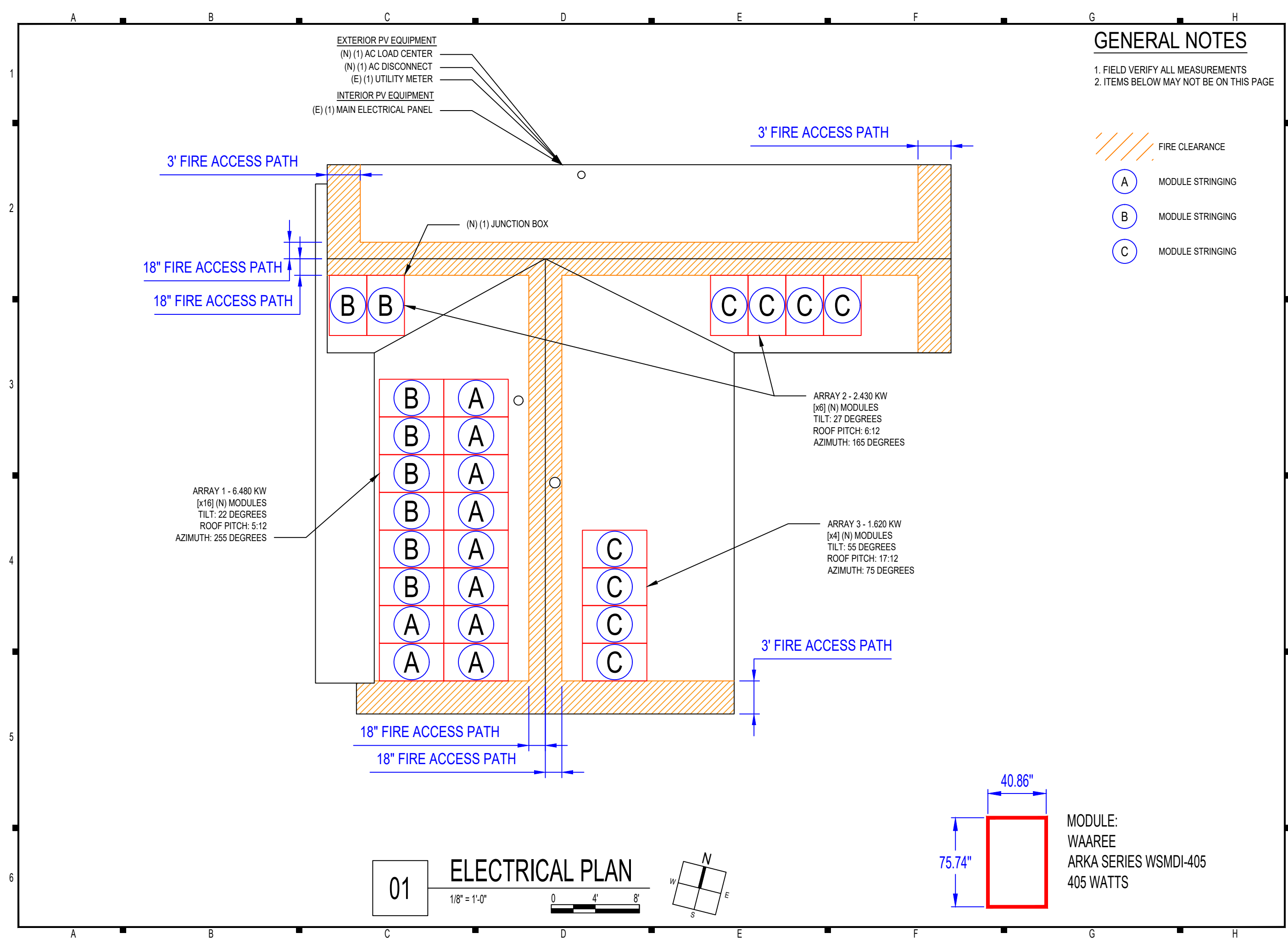
01

SITE PLAN

1/16" = 1'-0"



A-101.00



GENERAL NOTES

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/// FIRE CLEARANCE

(A) MODULE STRINGING

(B) MODULE STRINGING

(C) MODULE STRINGING



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ELECTRICAL PLAN

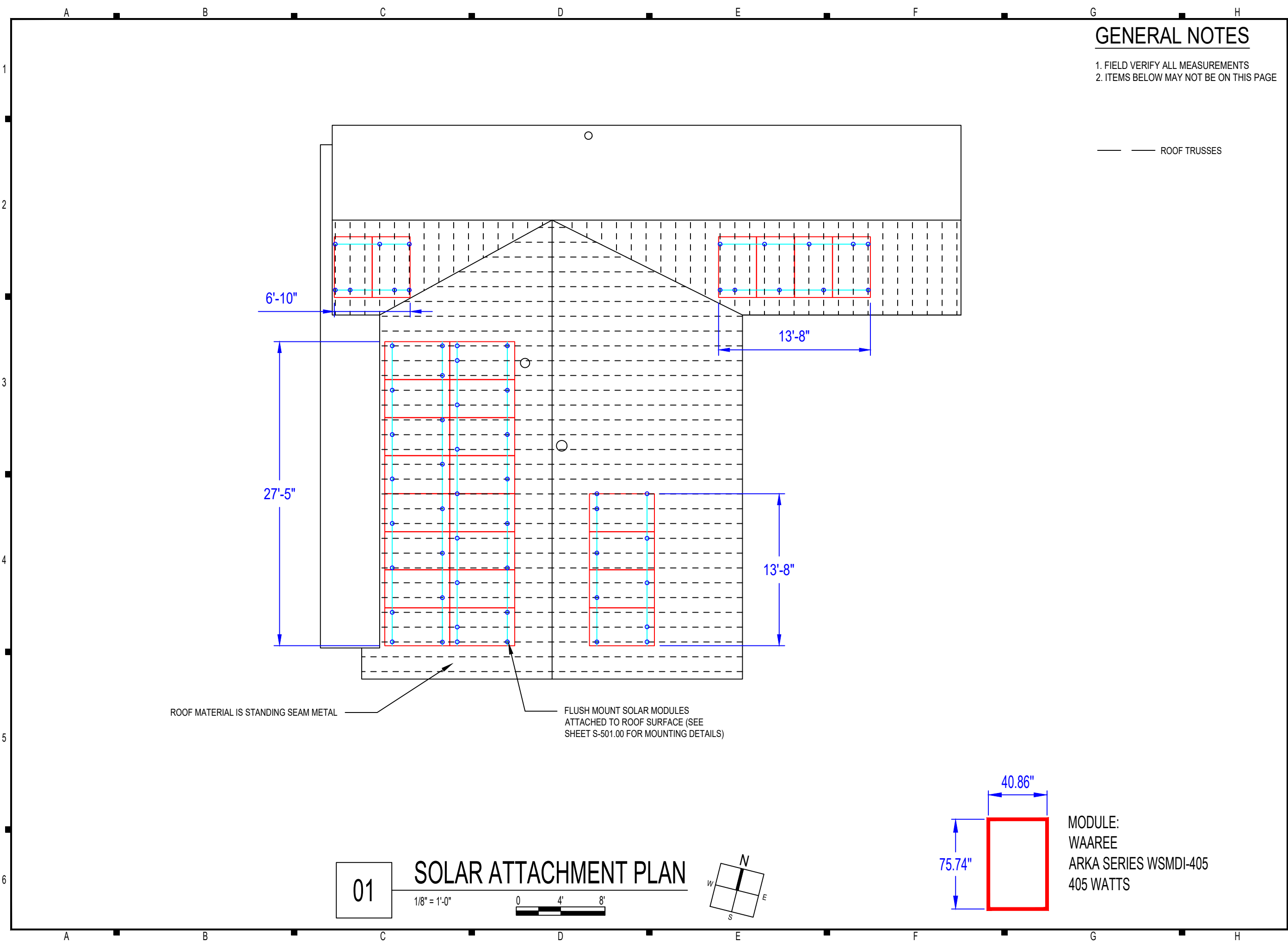
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— — ROOF TRUSSES



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NEW PV SYSTEM: 10.530 kWp

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APN: 03151651406201085000

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SOLAR ATTACHMENT PLAN

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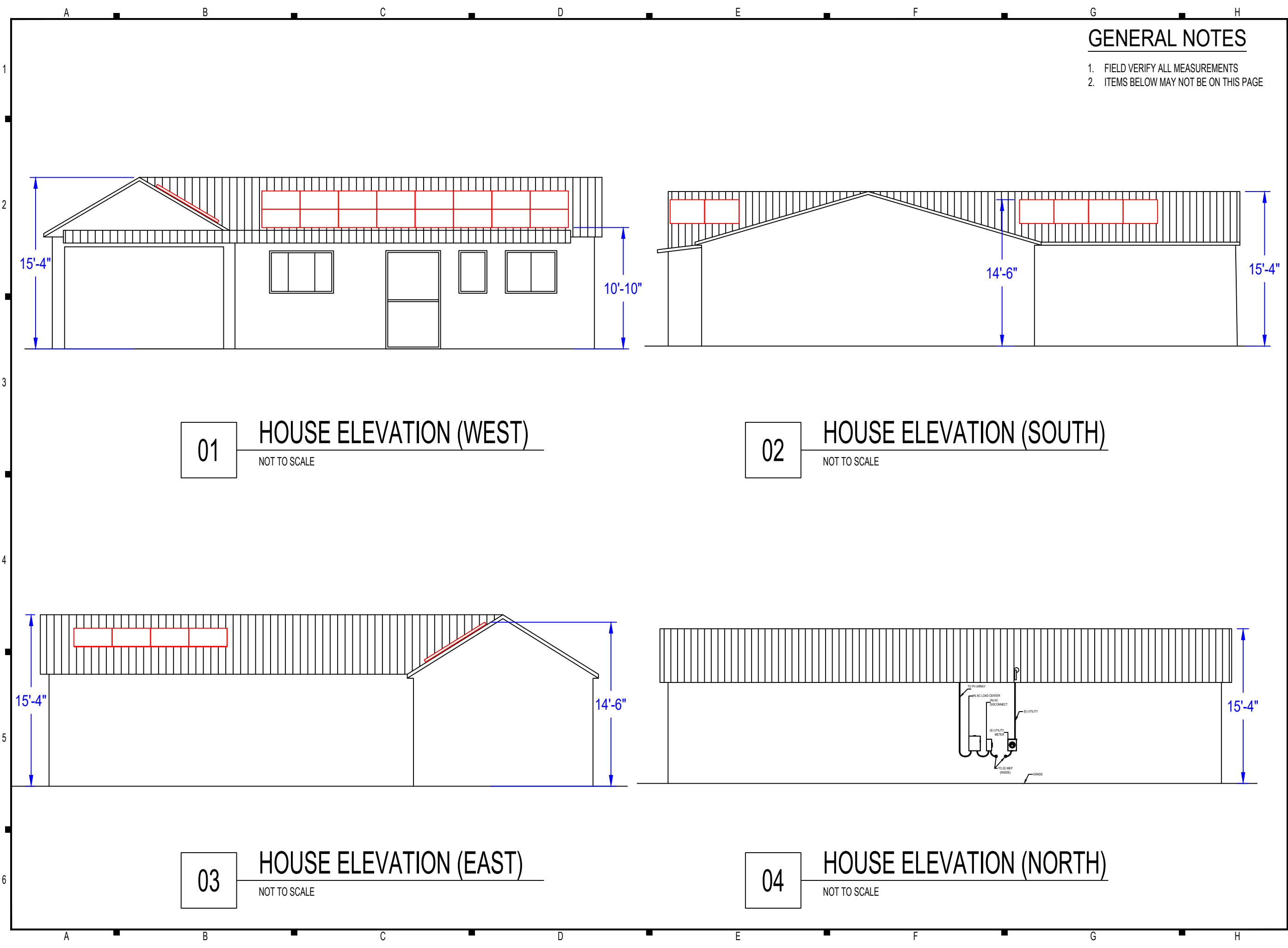
DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

MODULE:
WAAREE
ARKA SERIES WSMDI-405
405 WATTS

A-103.00



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NEW PV SYSTEM: 10.530 kWp

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APN: 03151651406201085000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ELEVATION PLAN

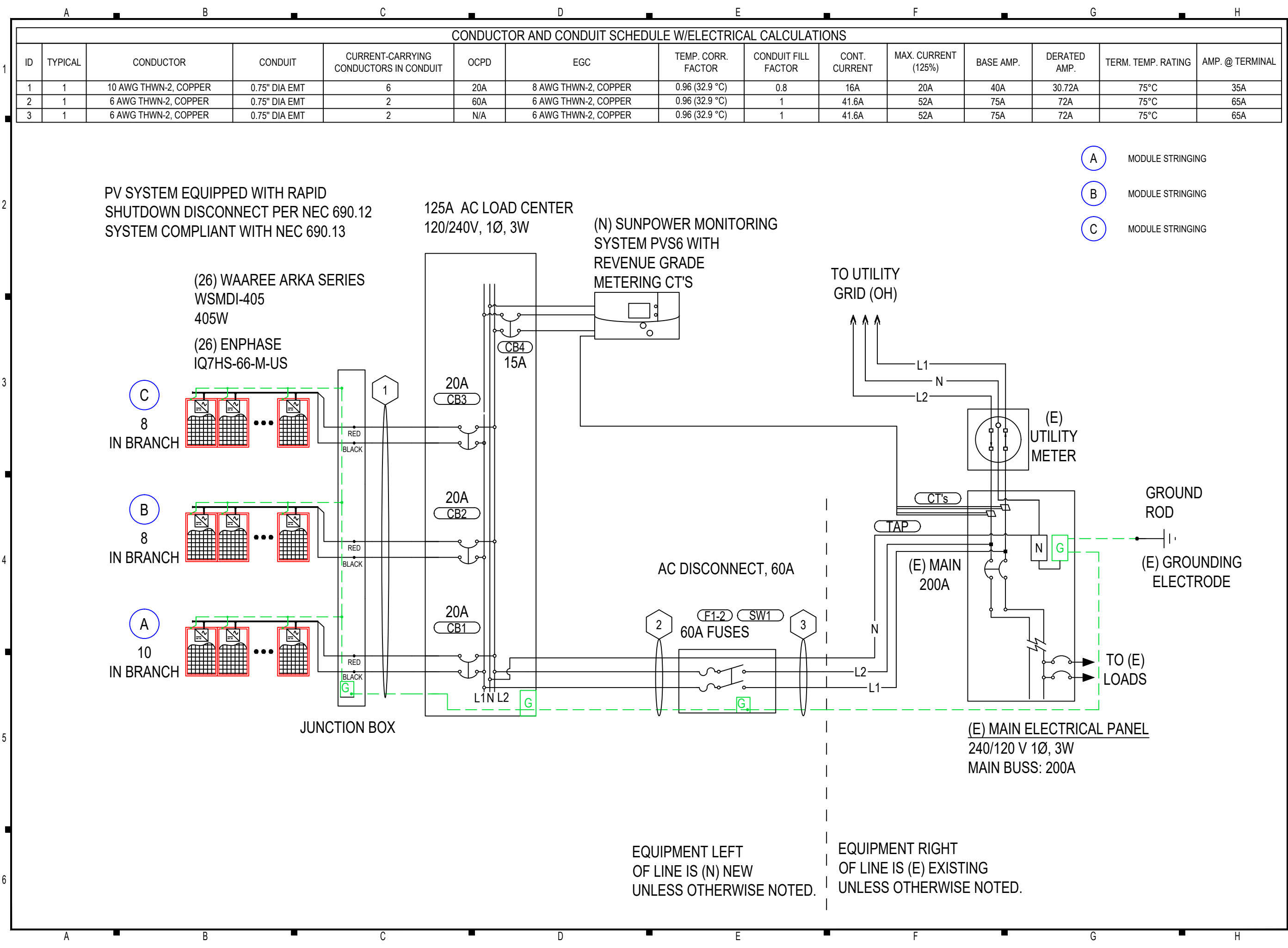
DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

A-104.00



CONTRACTOR

N3 ENERGY

PHONE: 7407476527
ADDRESS: 3982 POWELL RD, STE 143,
POWELL, OH 43065

LIC. NO.: 49281
HIC. NO.:
ELE. NO.:

UNAUTHORIZED USE OF THIS
DRAWING SET WITHOUT WRITTEN
PERMISSION FROM CONTRACTOR IS IN
VIOLATION OF U.S. COPYRIGHT LAWS
AND WILL BE SUBJECT TO CIVIL
DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM: 10.530 kWp

**SHIRA
RESIDENCE**

82 MEADOW LN,
JOHNSTOWN, OH 43031
APN: 03151651406201085000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

LINE DIAGRAM

DATE: 08.01.2024
DESIGN BY: M.P.
CHECKED BY: M.M.

REVISIONS

SYSTEM SUMMARY			
	BRANCH #1	BRANCH #2	BRANCH #3
INVERTERS PER BRANCH	10	8	8
MAX AC CURRENT	16A	12.8A	12.8A
MAX AC OUTPUT POWER	3,840W	3,072W	3,072W
ARRAY STC POWER	10,530W		
ARRAY PTC POWER	9,866W		
MAX AC CURRENT	41.6A		
MAX AC POWER	9,984W		
DERATED (CEC) AC POWER	9,570W		

MODULES										
REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
PM1-26	26	WAAREE ARKA SERIES WSMDI-405	405W	379.47W	11.4A	10.61A	45.44V	38.22V	-0.132V/°C (-0.29%/°C)	20A

INVERTERS										
REF.	QTY.	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY
I1-26	26	ENPHASE IQ7HS-66-M-US	240V	FLOATING	20A	384W	1.6A	15A	59V	97.0%

DISCONNECTS				
REF.	QTY.	MAKE AND MODEL	RATED CURRENT	MAX RATED VOLTAGE
SW1	1	EATON DG222NRB OR EQUIV.	60A	240VAC

ASHRAE EXTREME LOW	-23.6°C (-10.5°F), SOURCE: COLUMBUSI ^{PORT} COLUM (39.99°; -82.88°)
ASHRAE 2% HIGH	32.9°C (91.2°F), SOURCE: COLUMBUSI ^{PORT} COLUM (39.99°; -82.88°)

OCPDS			
REF.	QTY.	RATED CURRENT	MAX VOLTAGE
CB1-3	3	20A	240VAC
CB4	1	15A	240VAC
F1-2	2	60A	240VAC

BILL OF MATERIALS							
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
MODULE	WAAREE	ARKA SERIES WSMDI-405	PM1-26	26	PIECES	1	WAAREE ARKA SERIES WSMDI-405 405W
INVERTER	ENPHASE	IQ7HS-66-M-US	I1-26	26	PIECES	1	ENPHASE IQ7HS-66-M-US 384W INVERTER
DISCONNECT	EATON	DG222NRB	SW1	1	PIECE	1	EATON DG222NRB, FUSED, 2-POLE, 60A, 240VAC OR EQUIVALENT
MISC ELECTRICAL EQUIPMENT		GEN-CABLE-CLIP	HDWR29-159	130	PIECES	1	GENERIC CABLE CLIP
AC COMBINER PANEL		GEN-AC-PANEL	EP1	1	PIECE	1	AC SUBPANEL
WIRING	ENPHASE	Q-12-20-200	EN1-26	26	PIECES	1	ENPHASE ENGAGE (TM) TRUNK CABLE
WIRING	ENPHASE	Q-TERM-10	EN27	1	BUNDLE	10	ENPHASE ENGAGE (TM) BRANCH TERMINATOR
WIRING	ENPHASE	Q-SEAL-10	EN28	1	BUNDLE	10	ENPHASE ENGAGE (TM) WATERTIGHT SEALING CAP
WIRING		GEN-10-AWG-THWN-2-CU-RD	WR1	135	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)
WIRING		GEN-10-AWG-THWN-2-CU-BLK	WR1	135	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING		GEN-8-AWG-THWN-2-CU-GR	WR1	45	FEET	1	8 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING		GEN-6-AWG-THWN-2-CU-RD	WR2-3	20	FEET	1	6 AWG THWN-2, COPPER, RED (LINE 1)
WIRING		GEN-6-AWG-THWN-2-CU-BLK	WR2-3	20	FEET	1	6 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING		GEN-6-AWG-THWN-2-CU-WH	WR2-3	20	FEET	1	6 AWG THWN-2, COPPER, WHITE (NEUTRAL)
WIRING		GEN-6-AWG-THWN-2-CU-GR	WR2-3	20	FEET	1	6 AWG THWN-2, COPPER, GREEN (GROUND)
WIREWAY	ENPHASE	ET-SPLK-05	EN6	1	BUNDLE	5	ENPHASE ENGAGE (TM) ENGAGE COUPLER
WIREWAY		GEN-EMT-0.75" DIA	WW1-3	65	FEET	1	EMT CONDUIT, 0.75" DIA
OCPD	GENERIC MANUFACTURER	GEN-CB-20A-240VAC	CB1-3	3	PIECES	1	CIRCUIT BREAKER, 20A, 240VAC
OCPD	GENERIC MANUFACTURER	GEN-CB-15A-240VAC	CB4	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC
OCPD	GENERIC MANUFACTURER	GEN-FU-60A-240VAC	F1-2	2	PIECES	1	FUSE, 60A, 240VAC
TRANSITION BOX	GENERIC MANUFACTURER	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS



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APN: 03151651406201085000

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PAPER SIZE: 11" x 17" (ANSI B)

DESIGN TABLES

DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

LABELING NOTES
1.1 LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 608.12, OSHA STANDARD 1910.145, ANSI Z535
1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.
1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]



WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL 1
AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT (2" X 4").
[NEC 690.13].



WARNING

POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL 2
AT POINT OF INTERCONNECTION OVERCURRENT DEVICE (2" X 4").
[NEC 705.12(B)(3)(2)].



PHOTOVOLTAIC SYSTEM AC DISCONNECT



RATED AC OUTPUT CURRENT

41.6

 A

NOMINAL OPERATING AC VOLTAGE

240

 V

LABEL 3
AT POINT OF INTERCONNECTION, MARKED AT DISCONNECTING MEANS (4" X 2").
[NEC 690.54]

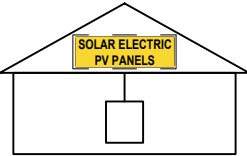
PHOTOVOLTAIC SOLAR AC DISCONNECT

LABEL 4
AT EACH AC DISCONNECTING MEANS (4" X 1").
[NEC 690.13(B)].

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL 5
AT RAPID SHUTDOWN DISCONNECT SWITCH (5 1/4" X 2").
[NEC 690.56(C)(3)].

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY

LABEL 6
AT RAPID SHUTDOWN SYSTEM (3 3/4" X 5 1/4"). [NEC 690.56(C)(1)(A)].



WARNING

DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL 7
AT POINT OF INTERCONNECTION (2 3/4" X 1 5/8").
[NEC 705.12(B)(3)]



WARNING

SOLAR ELECTRIC CIRCUIT BREAKER IS BACKFED

LABEL 8
AT POINT OF INTERCONNECTION (2" X 1").
[NEC 705.12(B)(3)]

INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED PHOTOVOLTAIC SYSTEM DISCONNECT LOCATED NORTH SIDE OF THE HOUSE

DIRECTORY
PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION (5 3/4" X 1 1/8").
[NEC 690.56(B)]
WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROVIDED AT EACH PV SYSTEM DISCONNECTING MEANS.
PV SYSTEM EQUIPMENT AND DISCONNECTING MEANS SHALL NOT BE INSTALLED IN BATHROOMS
[NEC 690.4(D),(E)]

WARNING: PHOTOVOLTAIC POWER SOURCE

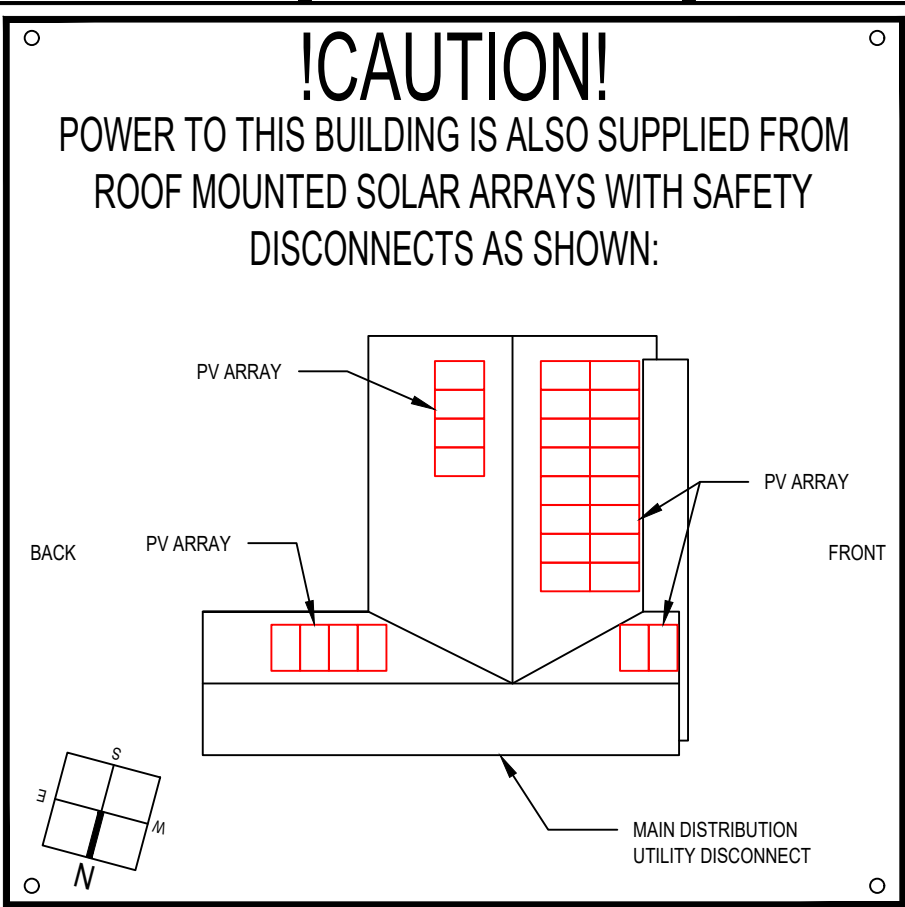
LABEL 9
AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS; SPACED AT MAXIMUM 10 FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS (5 3/4" X 1 1/8").
[NEC 690.31(G)]



CAUTION

SOLAR ELECTRIC SYSTEM CONNECTED

LABEL 10
AT UTILITY METER (5 3/4" X 1 1/8")
[NEC 690.56(B)]



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JOHNSTOWN, OH 43031
APN: 03151651406201085000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

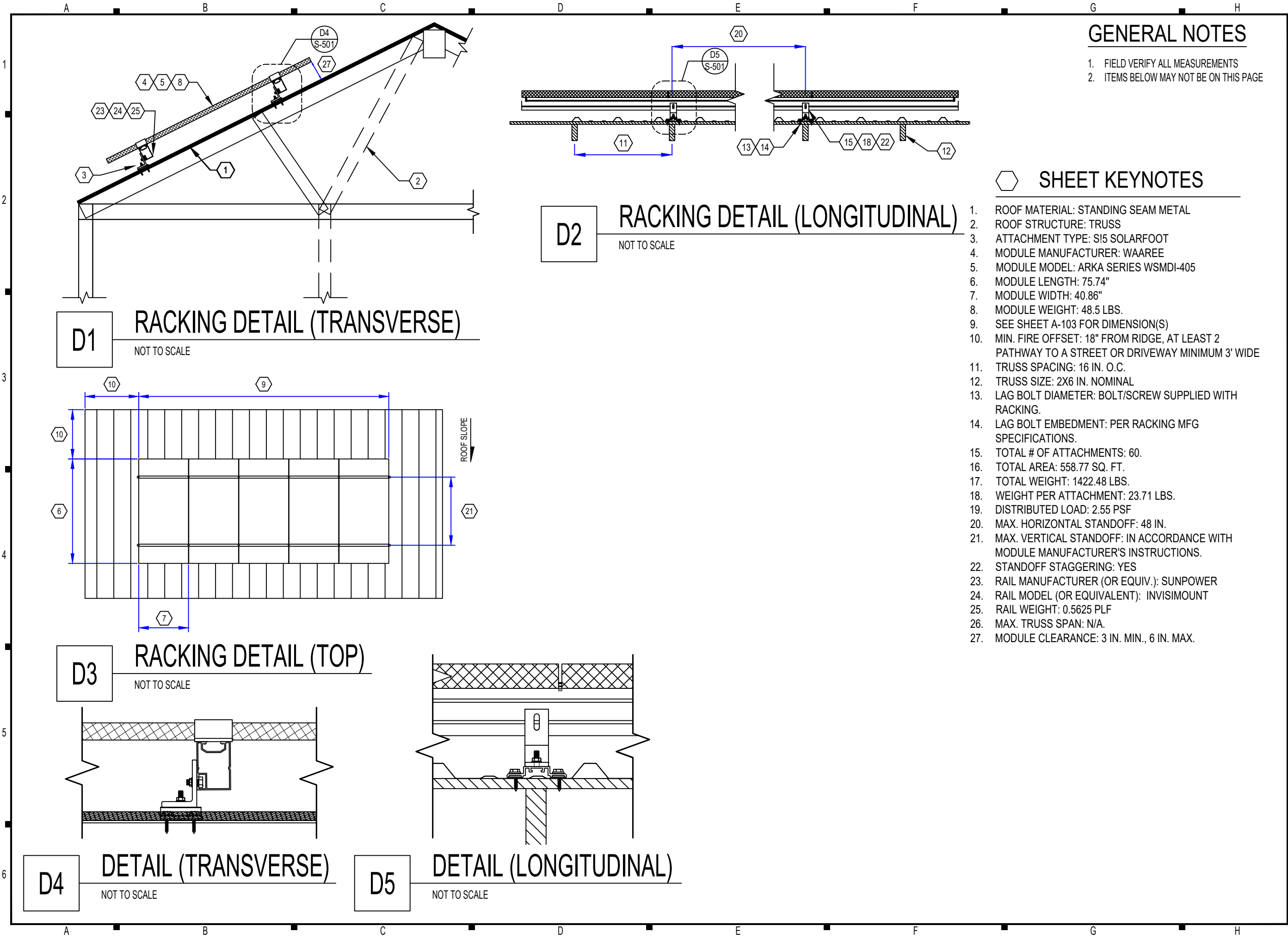
PLACARDS

DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS



GENERAL NOTES

- 1. FIELD VERIFY ALL MEASUREMENTS
- 2. ITEMS BELOW MAY NOT BE ON THIS PAGE

SHEET KEYNOTES

- 1. ROOF MATERIAL: STANDING SEAM METAL
- 2. ROOF STRUCTURE: TRUSS
- 3. ATTACHMENT TYPE: SI5 SOLARFOOT
- 4. MODULE MANUFACTURER: WAAREE
- 5. MODULE MODEL: ARKA SERIES WSMDI-405
- 6. MODULE LENGTH: 75.74"
- 7. MODULE WIDTH: 40.86"
- 8. MODULE WEIGHT: 48.5 LBS.
- 9. SEE SHEET A-103 FOR DIMENSION(S)
- 10. MIN. FIRE OFFSET: 18" FROM RIDGE, AT LEAST 2 PATHWAY TO A STREET OR DRIVEWAY MINIMUM 3' WIDE
- 11. TRUSS SPACING: 16 IN. O.C.
- 12. TRUSS SIZE: 2X6 IN. NOMINAL
- 13. LAG BOLT DIAMETER: BOLT/SCREW SUPPLIED WITH RACKING.
- 14. LAG BOLT EMBEDMENT: PER RACKING MFG SPECIFICATIONS.
- 15. TOTAL # OF ATTACHMENTS: 60.
- 16. TOTAL AREA: 558.77 SQ. FT.
- 17. TOTAL WEIGHT: 1422.48 LBS.
- 18. WEIGHT PER ATTACHMENT: 23.71 LBS.
- 19. DISTRIBUTED LOAD: 2.55 PSF
- 20. MAX. HORIZONTAL STANDOFF: 48 IN.
- 21. MAX. VERTICAL STANDOFF: IN ACCORDANCE WITH MODULE MANUFACTURER'S INSTRUCTIONS.
- 22. STANDOFF STAGGERING: YES
- 23. RAIL MANUFACTURER (OR EQUIV.): SUNPOWER
- 24. RAIL MODEL (OR EQUIVALENT): INVISIMOUNT
- 25. RAIL WEIGHT: 0.5625 PLF
- 26. MAX. TRUSS SPAN: N/A.
- 27. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.



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ASSEMBLY DETAILS

DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

S-501.00

ARKA SERIES

WSMDi-395 to WSMDi-415

WAAREE®
One with the Sun



Highest reliability & enhanced crack tolerant 9BB module



Better performance under all climatic conditions



Split junction box



Reduced power losses up to 1/4 times



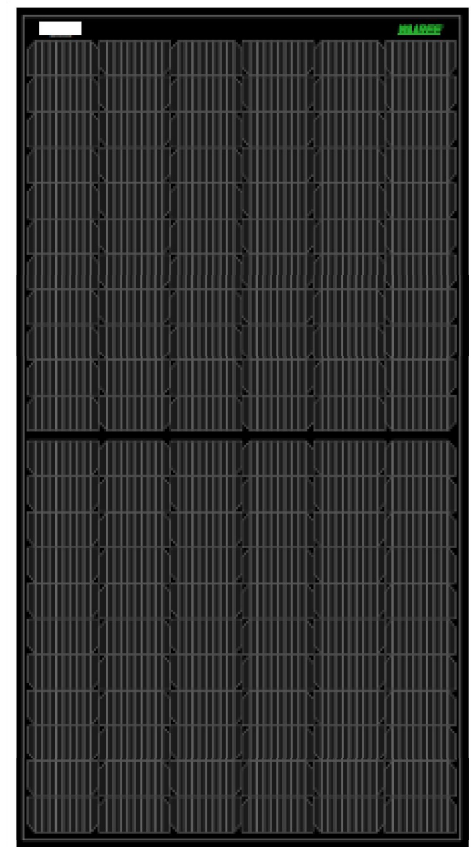
PID resistant with long term reliability



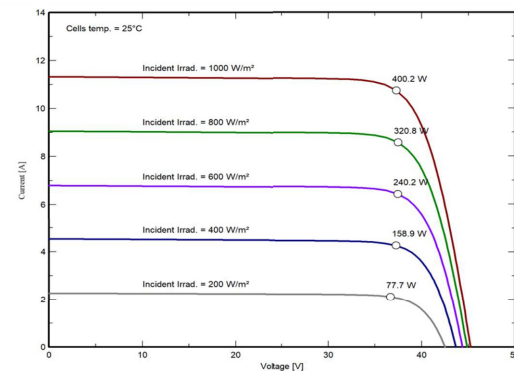
Sustain heavy wind & snow loads (2400 pa & 5400 pa)



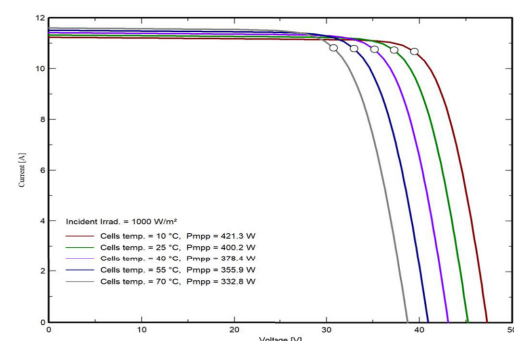
M6 Mono PERC cells



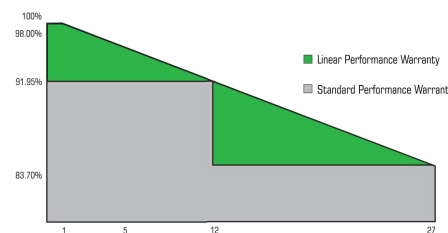
I-V VARIATION WITH IRRADIANCE



I-V VARIATION WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Waaree technical team for further clarifications.



INTERNATIONAL & NATIONAL CERTIFICATIONS ^

IEC 61215 | IEC 61730 | UL61730
IEC TS 62804-1



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018
Independent assessment of factories by BLACK & VEATCH

www.waaree.com

ARKA SERIES

WSMDi-395 to WSMDi-415

WAAREE®
One with the Sun

ELECTRICAL CHARACTERISTICS

Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
WSMD-395	395	296.8	37.77	34.70	10.47	8.55	11.24	9.08	45.00	42.10	19.78
WSMD-400	400	300.6	38.00	34.90	10.54	8.62	11.32	9.14	45.22	42.30	20.03
WSMD-405	405	304.4	38.22	35.10	10.61	8.68	11.40	9.21	45.44	42.50	20.28
WSMD-410	410	308.2	38.44	35.30	10.68	8.74	11.48	9.27	45.66	42.70	20.53
WSMD-415	415	312.1	38.66	35.40	10.75	8.81	11.57	9.34	45.88	42.90	20.78

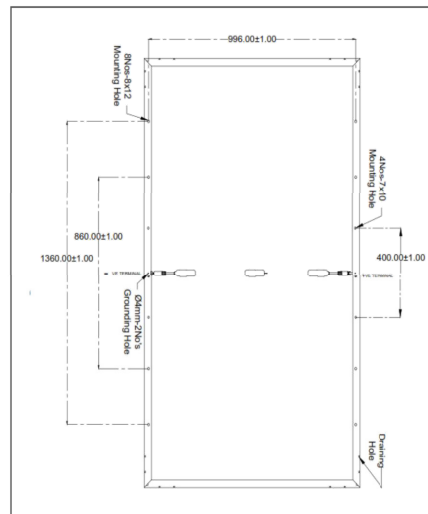
*Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty ± 3%.

System Voltage	1500 V	Series Fuse Rating	22 A
----------------	--------	--------------------	------

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	1924 mm (L) x 1038 mm (W) x 35 mm (T)
Weight	22 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6 11x6)
Solar Cell Type & Size	Mono PERC, 83 x 166 mm
Front Glass	3.2 mm Low Iron and Tempered glass with ARC coating
Encapsulate	PID Free & UV Resistant
Junction Box (Protection degree/ Material)	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / Staubli MC4 Connector
Cable cross - section & Length	4 mm² & 1200mm
Frame	Anodized Aluminium Alloy, Anodization thickness ≥ 15 micron
Fire rating	Type 2

DESIGN SPECIFICATIONS



12 Years Product Warranty • 27 Years Power Output Warranty

- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.
- Refer installation Manual instructions & Waaree warranty statement for terms & conditions.
- Waaree Reserves the right to change the specifications without prior notice.

WEL/E&PD/395-415/132/MP/HQ/CMZ/01/27.07.2022

THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.055
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.285
Temperature coefficient of Power (Pm), γ (%/°C)	-0.365
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85

Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 5 GW. In addition, it is committed to provide top notch EPC services, project development, rooftop solutions, solar water pumps and also in an Independent Power Producer. Waaree has its presence in over 325+ locations nationally and 68 countries globally.

*If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Waaree sales and technical representatives.

www.waaree.com

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N3-ENERGY.COM

CONTRACTOR

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REVISIONS

R-001.00

Enphase SPWR-A5 (IQ7HS) Microinverter

The high-powered smart grid-ready Enphase SPWR-A5 Microinverter™ with integrated MC4 connectors dramatically simplify the installation process while achieving the highest system efficiency.

The IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Efficient and Reliable

- Optimized for high powered 66-cell* modules
- Highest CEC efficiency of 97.0%
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ7HS is required to support 66-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ7HS Microinverter

INPUT DATA (DC)		IQ7HS-66-M-US
Commonly used module pairings¹	320 W - 460 W +	
Module compatibility	66-cell PV modules	
Maximum input DC voltage	59 V	
Peak power tracking voltage	38 V - 43 V	
Operating range	20 V - 59 V	
Min/Max start voltage	30 V / 59 V	
Max DC short circuit current (module Isc)	15 A	
Overvoltage class DC port	II	
DC port backfeed current	0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	
OUTPUT DATA (AC)		
	@240 VAC	@208 VAC
Peak output power	384 VA	369 VA
Maximum continuous output power	384 VA	369 VA
Nominal (L-L) voltage/range²	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.60 A (240V)	1.77 A (208V)
Nominal frequency	60 Hz	60 Hz
Extended frequency range	47 to 68 Hz	47 to 68 Hz
AC short circuit fault current over 3 cycles	4.82 A	4.82 A
Maximum units per 20 A (L-L) branch circuit³	10	9
Overvoltage class AC port	III	III
AC port backfeed current	18 mA	18 mA
Power factor setting	1.0	1.0
Power factor (adjustable)	0.85 leading ...0.85 lagging	0.85 leading ...0.85 lagging
EFFICIENCY		
	@240 V	@208 V
CEC weighted efficiency	97.0 %	96.5 %
MECHANICAL DATA		
Ambient temperature range	-40°C to +60°C	
Relative humidity range	4% to 100% (condensing)	
Connector type	Staubli made MC4	
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)	
Weight	1.08 kg (2.38 lbs)	
Cooling	Natural convection - No fans	
Approved for wet locations	Yes	
Pollution degree	PD3	
Enclosure	Class II, corrosion resistant polymeric enclosure	
Environmental category / UV exposure rating	NEMA type 6 / outdoor	
Altitude	2000m	
FEATURES		
Communication	Power Line Communication (PLC)	
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect means required by NEC 690 and C22.1-2018 Rule 64-220.	
Compliance	CA Rule 21 (UL 1741-SA), HECO v1.1 UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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05-11-2022



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DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

R-002.00

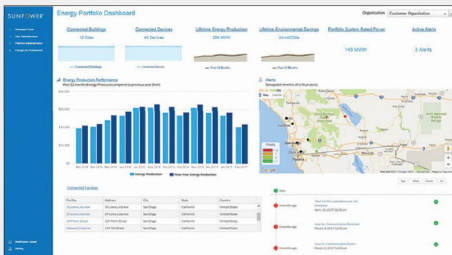


SunPower® EnergyLink™ | Residential and Commercial PVS6

Improve Support, Reduce Maintenance Costs

An intuitive monitoring website enables you to:

- See a visual map of customer sites
- Remotely manage hundreds of sites
- Receive elective system reports
- Locate system issues and remotely diagnose
- Diagnose issues online
- Drill down for the status of individual devices



Add Value for Customers

With the SunPower Monitoring System customers can:

- See what their solar system produces each day, month, or year
- Optimize their solar investment and save on energy expenses
- See their energy use and estimated bill savings
- See their solar system's performance using the SunPower monitoring website or mobile app



SunPower EnergyLink—Plug-and-Play Installation

This complete solution for residential and commercial monitoring and control includes the SunPower® PV Supervisor 6 (PVS6) which improves the installation process, overall system reliability, and customer experience.

- Compact footprint for improved aesthetics
- Robust cloud connectivity and comprehensive local connectivity
- Flexible configuration of devices during installation
- Consumption metering
- Revenue-grade production metering (pending)
- Web-based commissioning
- Remote diagnostics of PVS6 and inverters
- Durable UL Type 3R enclosure reduces maintenance costs
- Easy integration with SunPower eBOS



Robust Cloud Connectivity

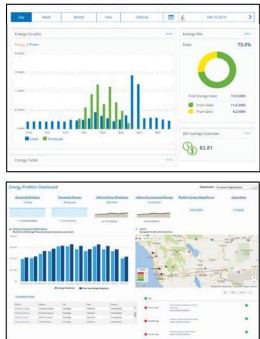
Multiple options to maintain optimal connectivity:

- Hardwired Ethernet
- Wi-Fi
- Cellular backup



SunPower® EnergyLink™ | Residential and Commercial PVS6

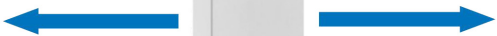
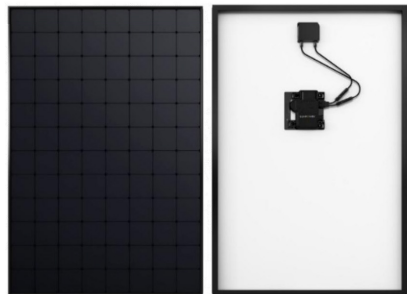
SunPower Monitoring Websites



PVS6



SunPower AC Modules



Multiple communication options include
Ethernet, Wi-Fi, and cellular.

Site Requirements	
Number of SunPower AC modules supported per PVS6	85
Internet access	High-speed internet access via accessible router or switch
Power	• 100–240 VAC (L–N), 50 or 60 Hz • 208 VAC (L–L in 3-phase), 60 Hz

Operating Conditions	
Temperature	–22°F to +140°F (–30°C to +60°C)
Humidity (maximum)	95%, non-condensing

Mechanical	
Weight	5.5 lbs (2.5 kg)
Dimensions	11.8 × 8.0 × 4.2 in. (30.5 × 20.5 × 10.8 cm)
Enclosure rating	UL50E Type 3R

Communication	
RS-485	Inverters and meters
Integrated Metering	• One channel of revenue-grade production metering • Two channels of consumption metering
Ethernet	1 LAN (or optional WAN) port
PLC	PLC for SunPower AC modules
Wi-Fi	802.11b/g/n 2.4 GHz and 5 GHz
Cellular	LTE Cat-M1/3G UMTS
ZigBee	IEEE 802.15.4 MAC, 2.4GHz ISM band
Data Storage	60 days
Upgrades	Automatic firmware upgrades

Web and Mobile Device Support	
Customer site	monitor.us.sunpower.com
Partner site	pvs6gmt.us.sunpower.com
Browsers	Firefox, Safari, and Chrome
Mobile devices	iPhone®, iPad®, and Android™
Customer app	1. Create account online at: monitor.us.sunpower.com. 2. On a mobile device, download the SunPower Monitoring app from Apple App Store® or Google Play™ store. 3. Sign in using account email and password.

Warranty and Certifications	
Warranty	10-year Limited Warranty
Certifications	UL, cUL, CE, UL 61010-1 and -2, FCC Part 15 (Class B)

FCC ID: YAW529027

UL LISTED
E503346

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530536 RevC

SUNPOWER®

Datasheet

SUNPOWER®

N3
N3-ENERGY.COM

CONTRACTOR

N3 ENERGY

PHONE: 7407476527
ADDRESS: 3982 POWELL RD, STE 143,
POWELL, OH 43065

LIC. NO.: 49281
HIC. NO.:
ELE. NO.:

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NEW PV SYSTEM: 10.530 kWp

SHIRA RESIDENCE

82 MEADOW LN,
JOHNSTOWN, OH 43031
APN: 03151651406201085000

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

RESOURCE DOCUMENT

DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

R-003.00



SunPower® InvisiMount™ | Residential Mounting System

SunPower® InvisiMount™ | Residential Mounting System

Simple and Fast Installation

- Integrated module-to-rail grounding
- Pre-assembled mid and end clamps
- Levitating mid clamp for easy placement
- Mid clamp width facilitates even module spacing
- Simple, pre-drilled rail splice
- UL 2703 Listed integrated grounding

Flexible Design

- Addresses nearly all sloped residential roofs
- Design in landscape and portrait
- Rails enable easy obstacle management

Customer-Preferred Aesthetics

- #1 module and #1 mounting aesthetics
- Best-in-class system aesthetics
- Premium, low-profile design
- Black anodized components
- Hidden mid clamps and end clamps hardware, and capped, flush rails

Part of Superior System

- Built for use with SunPower DC and AC modules
- Best-in-class system reliability and aesthetics
- Combine with SunPower modules and monitoring app



Elegant Simplicity

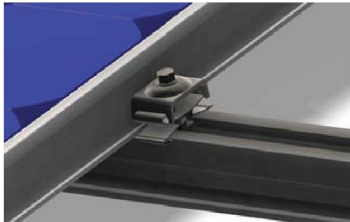
SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. The InvisiMount product was specifically envisioned and engineered to pair with SunPower modules. The resulting system-level approach will amplify the aesthetic and installation benefits for both homeowners and installers.

sunpower.com

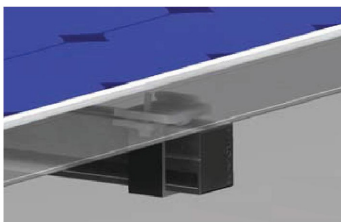


InvisiMount Component Images

Module* / Mid Clamp and Rail



Module* / End Clamp and Rail



Mid Clamp



End Clamp



Rail & Rail Splice



Ground Lug Assembly



End Cap



InvisiMount Component Details		
Component	Material	Weight
Mid Clamp	Black oxide stainless steel AISI 304	63 g (2.2 oz)
End Clamp	Black anodized aluminum alloy 6063-T6	110 g (3.88 oz)
Rail	Black anodized aluminum alloy 6005-T6	830 g/m (9 oz/ft)
Rail Splice	Aluminum alloy 6005-T5	830 g/m (9 oz/ft)
Ground Lug Assembly	304 stainless (A2-70 bolt; tin-plated copper lug)	106.5 g/m (3.75 oz)
End Cap	Black acetal (POM) copolymer	10.4 g (0.37 oz)

Roof Attachment Hardware Supported by InvisiMount System Design Tool	
Application	• Composition Shingle Rafter Attachment • Composition Shingle Roof Decking Attachment • Curved and Flat Tile Roof Attachment • Universal Interface for Other Roof Attachments

InvisiMount Operating Conditions	
Temperature	-40° C to 90° C (-40° F to 194° F)
Max. Load	2400 Pa uplift 5400 Pa downforce

InvisiMount Warranties And Certifications	
Warranties	25-year product warranty 5-year finish warranty
Certifications	UL 2703 Listed Class A fire rating when distance between roof surface and bottom of SunPower module frame is ≤ 3.5"

Roof Attachment Hardware Warranties	
Refer to roof attachment hardware manufacturer's documentation	

*Module frame that is compatible with the InvisiMount system required for hardware interoperability.

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Document #509506 Rev B

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N3 ENERGY

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RESOURCE DOCUMENT

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DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

R-004.00

The right way to attach almost anything to metal roofs!

S-5![®]

The Right Way![®]

Introducing the new SolarFoot[™] for exposed fastener metal roofing with the strength, testing, quality, and time-proven integrity you expect from S-5!. The SolarFoot provides an ideal mounting platform to attach the L-Foot (not included) of a rail-mounted PV system to the roof. This solution is The Right Way to secure rail-mounted solar systems to exposed fastener metal such as AG-Panel or R-Panel.

SolarFoot Features:

Manufactured in the U.S.A. from certified raw material

Fabricated in our own ISO 9002 certified factory

All aluminum and stainless components

Lifetime limited warranty

Compatible with all commercial L-Foot products on the market

Factory applied 40-year isobutylene/isoprene crosslink polymer sealant for reliable weathertightness

Sealant reservoir to prevent over compression of sealant

Load-to-failure tested Normal to Seam by a nationally accredited laboratory on thousands of metal roof manufacturers, profiles and materials

Four points of attachment into structure or deck with tested holding strength for engineered applications

Integrated with M8-1.25x17mm stud and M8-1.25 stainless steel hex flange nut included



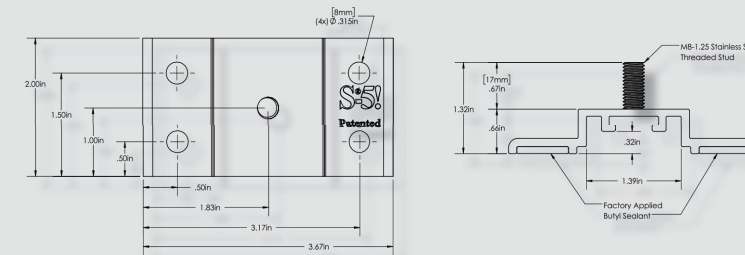
888-825-3432 | www.s-5.com

S-5![®]

The Right Way![®]

SolarFoot[™]: Mounting for Exposed Fastener Roofing

The SolarFoot is a simple, cost-effective pedestal for L-Foot (not included) attachment of rail-mounted solar PV. The unique design is compatible with all rail producer L-Foot components. The new SolarFoot assembly ensures a durable weathertight solution for the life of the roof. Special factory applied butyl co-polymeric sealant contained in a reservoir is The Right Way, allowing a water-tested seal. Stainless integrated stud and hex flange lock-nut secure the L-Foot into position. A low center of gravity reduces the moment arm commonly associated with L-Foot attachments. Direct attachment of the SolarFoot to the structural member or deck provides unparalleled holding strength.



**Fasteners sold separately. Fastener type varies with substrate. Contact S-5! on how to purchase fasteners and obtain our test results. L-Foot also sold separately.*

Fastener Selection



Metal to Metal:
1/4-14 Self Drilling Screw
1-1/2" to 2-1/2"



Metal to Wood:
1/4-14 Type 17 AB Milled Point
1-1/2" to 2-1/2"

To source fasteners for your projects, contact S-5!

When other brands claim to be "just as good as S-5!", tell them to PROVE IT.

S-5![®] Warning! Please use this product responsibly!

The independent lab test data found at www.S-5.com can be used for load-critical designs and applications.

Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, fastener torque, patents, and trademarks, visit the S-5! website at www.S-5.com. Copyright 2021, Metal Roof Innovations, Ltd. S-5! products are patent protected.

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Distributed by:

SolarFoot Advantages:

Exposed fasten mounting platform for solar arrays attached via L-Foot and Rails

Weatherproof attachment to exposed fastener roofing

Butyl sealant reservoir provides long-term waterproof seal

M8-1.25x17mm stud with M8 hex flange nut for attachment of all popular L-Foot/rail combinations

Tool: 13 mm Hex Socket or 1/2" Hex Socket

Electric screw gun with hex drive socket for self tapping screws

Low Center of Gravity reduces moment arm commonly associated with L-Foot/Rail solar mounting scenarios

Attaches directly to structure or deck for optimal holding strength

S-5! Recommended substrate-specific (e.g. steel purlin, wood 2x4, OSB, etc.) fasteners provide excellent waterproofing and pull out strength

Fastener through-hole locations comply with NDS (National Design Specification) for Wood Construction



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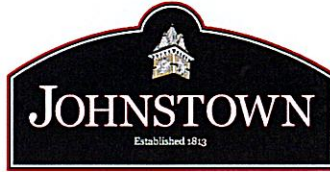
DATE: 08.01.2024

DESIGN BY: M.P.

CHECKED BY: M.M.

REVISIONS

R-005.00



CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 7-22-5 Date: 7/22/24

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ 100.00 Paid: Check # 6514 Cash: \$

(PLEASE PRINT)

1. Applicant: Leon Miller Phone: (330) 893 - 0230
2. Property Address: 29 Greenscape Ct. City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: lmiller@tekton-eng.com
4. Business Owner's Name: Gary Pitman Phone: (740) 967 - 1235
5. Contractor's Name: Ohio Dutch Construction Phone: (330) 893 - 2934
6. Principal Business Activity: Lease spaces for Warehouse & Manufacturing
7. Existing Use of Property: Warehouse & Manufacturing
8. Square Footage of Proposed Building or Business: 32,600 sq. ft.
9. Zoning District: LM Number of Off-Street Parking Spaces: 76
10. Estimated Cost of Improvements: \$ 120,00.00

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations and landscaping.
- (3) Illustration of all existing building elevations to scale.
- (4) Illustrations of all proposed building elevations to scale.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

- | | |
|------------------------|----------|
| 1. 26 Ga. Metal Siding | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |

List of Contiguous Neighbors and Addresses:

- | | | | |
|---------------------|--------------------|-------|----------|
| 1. Solomon Cannabis | 155 Commerce Blvd | Oh | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 2. KW B Properties | 158 Commerce Blvd | Oh | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 3. Ohio Pack | 188 Commerce Blvd | Oh | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |
| 4. Mohawk Cushions | 143 Commerce Blvd | Oh | 43031 |
| Neighbor's Name | Neighbor's Address | State | Zip Code |

Applicant's Signature: x  Date: 07/15/24

Date Received in Office: 7/22/24 By: T. Wymer

Date Permit Approved or Denied by Planning Commission: ____/____/____

Conditions Necessary for Approval: _____

Page 61 of 79

Nucor Buildings Group A-Panel Metal Wall Panel System



The architectural features of the A-Panel wall make it ideal for fascias and decorative wall designs. The recessed fasteners provide a clean exterior appearance, and the deep rib configuration creates an attractive shadow pattern. Fasteners for are semi-concealed.



Panel Credentials

- ASTM E283 Test Method for Determining Air Leakage Through Wall Systems
- ASTM E331 Test Method for Water Penetration of Exterior Wall Systems
- State of Florida Product Approval
- UL263 Fire Tests of Building Construction and Materials
- ASTM C1363-11 Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

Panel Specifications

Gage	Thickness (in.)	Yield (ksi)	Tensile (ksi)	Panel Wt. (psf)	I _x (Gross) (in ⁴)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
						S _x (eff.) (in ³)	M _x (kip-in)	S _x (eff.) (in ³)	M _x (kip-in)
26	0.0177	80	82	0.86	0.0320	0.0417	1.500	0.0367	1.3167
24	0.0222	80	82	1.08	0.0400	0.0537	1.9267	0.0493	1.7700

Panel Capacity (psf)

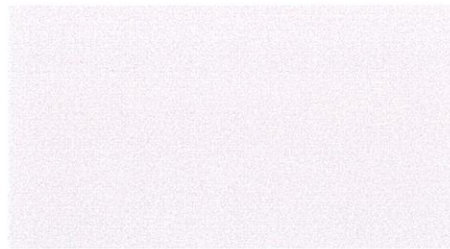
SPAN (ft.)	26 GAGE		24 GAGE	
	Pressure ⁷	Suction ^{4,8}	Pressure ⁷	Suction ^{4,8}
3.0	78	72	119	75
3.5	67	62	102	64
4.0	58	54	89	56
4.5	52	48	72	50
5.0	43	43	59	45
5.5	36	40	48	41
6.0	30	34	41	38
6.5	26	29	35	35
7.0	22	25	30	32
7.5	19	22	26	28

NOTES

1. Section properties were calculated in accordance with AISI S100/CSA S136, 2016 Edition.
2. Panels were checked for bending, shear, combined bending and shear, web crippling, deflection and panel pullover.
3. Deflection is limited to Span/60.
4. Panel pullover limits are based on d/w = 0.44".
5. Thermal load has not been considered.
6. Capacities are based on a 3-span condition with equal length spans.
7. "Pressure" load is applied inward on the outer surface towards supports.
8. "Suction" load is applied outward on the inner surface away from panel supports.

PVDF Cool Coatings

PVDF utilizes a two-coat system featuring fade resistant color, incredible durability, and environmentally-friendly "cool" technology.



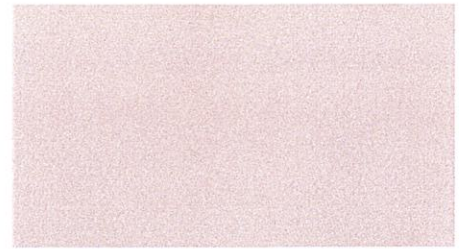
Regal White [†]

IR .72 SRI 88



Reflective White ^{††}

IR .63 SRI 76



Warm White [†]

IR .63 SRI 76



Pearl Gray ^{††}

IR .47 SRI 54



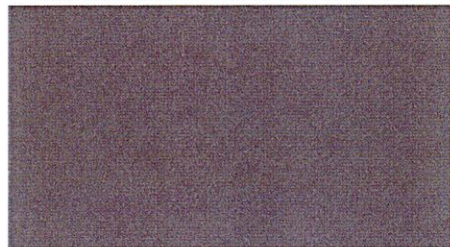
Desert Sand ^{††}

IR .57 SRI 67



Surrey Beige [†]

IR .50 SRI 56



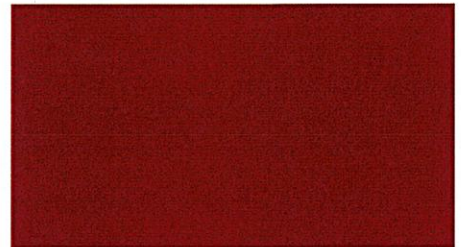
Slate Gray [†]

IR .37 SRI 40



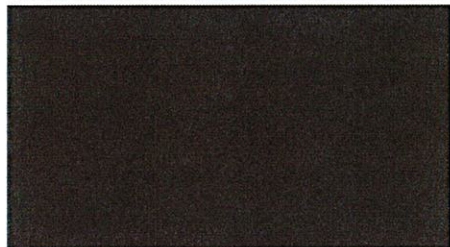
Royal Blue [†]

IR .30 SRI 30



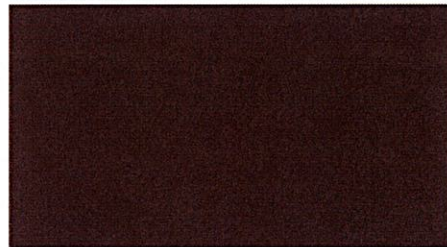
Terra Cotta [†]

IR .36 SRI 38



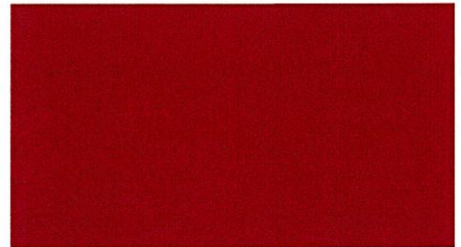
Cypress Green [†]

IR .31 SRI 31



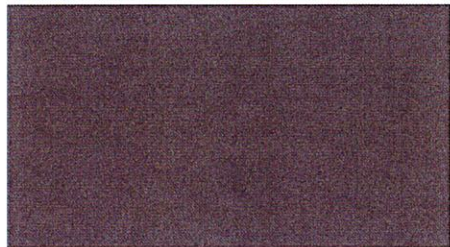
Dark Bronze [†]

IR .32 SRI 33



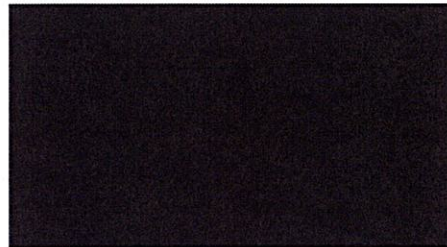
Brite Red ^{††}

IR .38 SRI 40



Charcoal ^{††}

IR .32 SRI 34



Midnight Black ^{††}

IR .27 SRI 26



Galvalume ^{††}

IR .77 SRI 72

*Non-Stock Color: Extended lead times may apply. *The Galvalume coating process is likely to result in variances in spangle (size, number, and reflection) from coil to coil which may result in noticeable shade variations. Galvalume is also subject to variable weathering and may appear to have different shades due to weathering characteristics. These shade variations are not cause for rejection. *ENERGY STAR® Qualified Color. All standard PVDF colors have a 35-year finish warranty. Colors shown closely approximate actual coating colors. These colors utilize Cool Coating Technology. The term "TBK" on the Order Document refers to "To Be Selected" from standard PVDF colors as shown on this chart. Please note that PVDF is a slight upcharge over SP.



PVDF Cool Coatings

Product Specifications



Solar Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Solar Reflectance

To be considered "cool," products must have a Solar Reflectance of at least .25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

Thermal Emittance

Thermal Emittance is the measure of a panel's ability to release heat that it has absorbed.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflectance Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and consequently, the heat gain into the building. Metal roofs coated with pigmented PVDF resin achieve an SRI of 26-88, depending on the color.

Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically over .85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30-50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing the energy demand.

GALVALUME® is a registered trademark of BIEC International Inc., and some of its licensed producers.

PVDF COOL PANEL COLORS

PVDF Cool Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance	Solar Reflectance Index (SRI)
Regal White	.72	0.85	88
Reflective White	.63	0.86	76
Warm White	.63	0.86	76
Pearl Gray	.47	0.86	54
Desert Sand	.57	0.86	67
Surrey Beige	.50	0.85	56
Slate Gray	.37	0.85	40
Royal Blue	.30	0.85	30
Terra Cotta	.36	0.85	38
Cypress Green	.31	0.85	31
Dark Bronze	.32	0.86	33
Brite Red	.38	0.84	40
Charcoal	.32	0.86	34
Midnight Black	.27	0.85	26
Galvalume®	.77	0.08	72

PVDF COOL TECHNICAL INFORMATION

Test	Test Methods	Performance
Dry Film Thickness	ASTM D1400	0.15 - 0.30 mil primer 0.70 - 0.90 mil topcoat
Gloss	ASTM D523 @ 60°	25 - 35
Solar Reflectance	ASTM E903 Steep Slope: Low Slope:	>25% Initial >15% after 3 years >65% Initial >50% after 3 years
Emissivity	ASTM C1371, ASTM E408	0.80 (80%) min.
Pencil Hardness	ASTM D3363	F-2H
Flexibility	T-Bend, ASTM D4145	0 - 2 T-Bend; No pick off
Adhesion	ASTM D3359	No adhesion loss
Reverse Impact	ASTM D2794	No cracking or adhesion loss
Abrasion, Falling Sand	ASTM D968	65 - 85 l/mil
Mortar Resistance	ASTM C267	No effect
Detergent Resistance	ASTM D2248 3% detergent @ 100°F (72 hrs.)	No Effect
Acid Resistance	ASTM D1308 10% muriatic acid - 24 hrs. 20% sulfuric acid - 18 hrs.	No effect No effect
Acid Rain Test	Kesternich SO2, DIN 50018	15 cycles min. No objectionable color change
Alkali Resistance	ASTM D1308 10% , 25% NaOH, 1 hr.	No effect
Salt Spray Resistance	ASTM B117 5% salt fog @ 95°F	None or few #8 blisters; Max. average 1/8" Scribe creep Passes 1000 hrs.
Humidity Resistance	ASTM D714, ASTM D2247 100% relative humidity @ 95°F	Passes 1500 hrs. No #8 blisters
Exterior Exposure	ASTM D2244, ASTM D 4214 10 yrs. @ 45°F, South Florida	Max. 5 fade Max. 8 chalk



WHITE SIDING TO BE REPLACED
WITH DESERT SAND

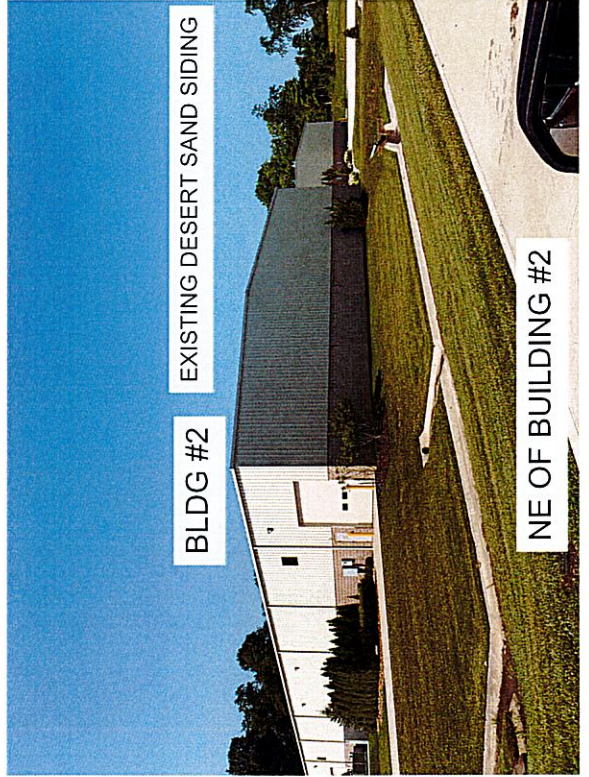
ORIGINAL BUILDING RESIDE TO MATCH THE EXISTING BUILDINGS #2 & #3

EAST SIDE OF ORIGINAL BUILDING



EXISTING BUILDINGS #2 & #3

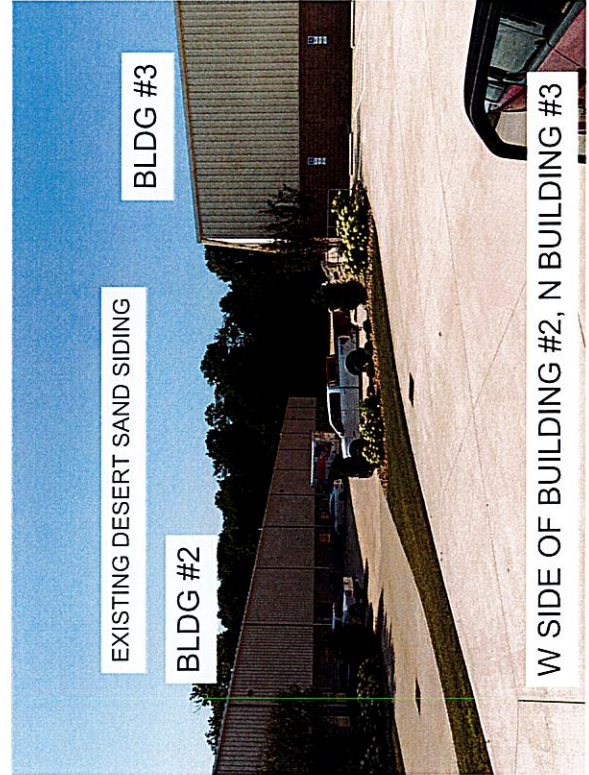
NORTH SIDE OF ORIGINAL BUILDING



BLDG #2

EXISTING DESERT SAND SIDING

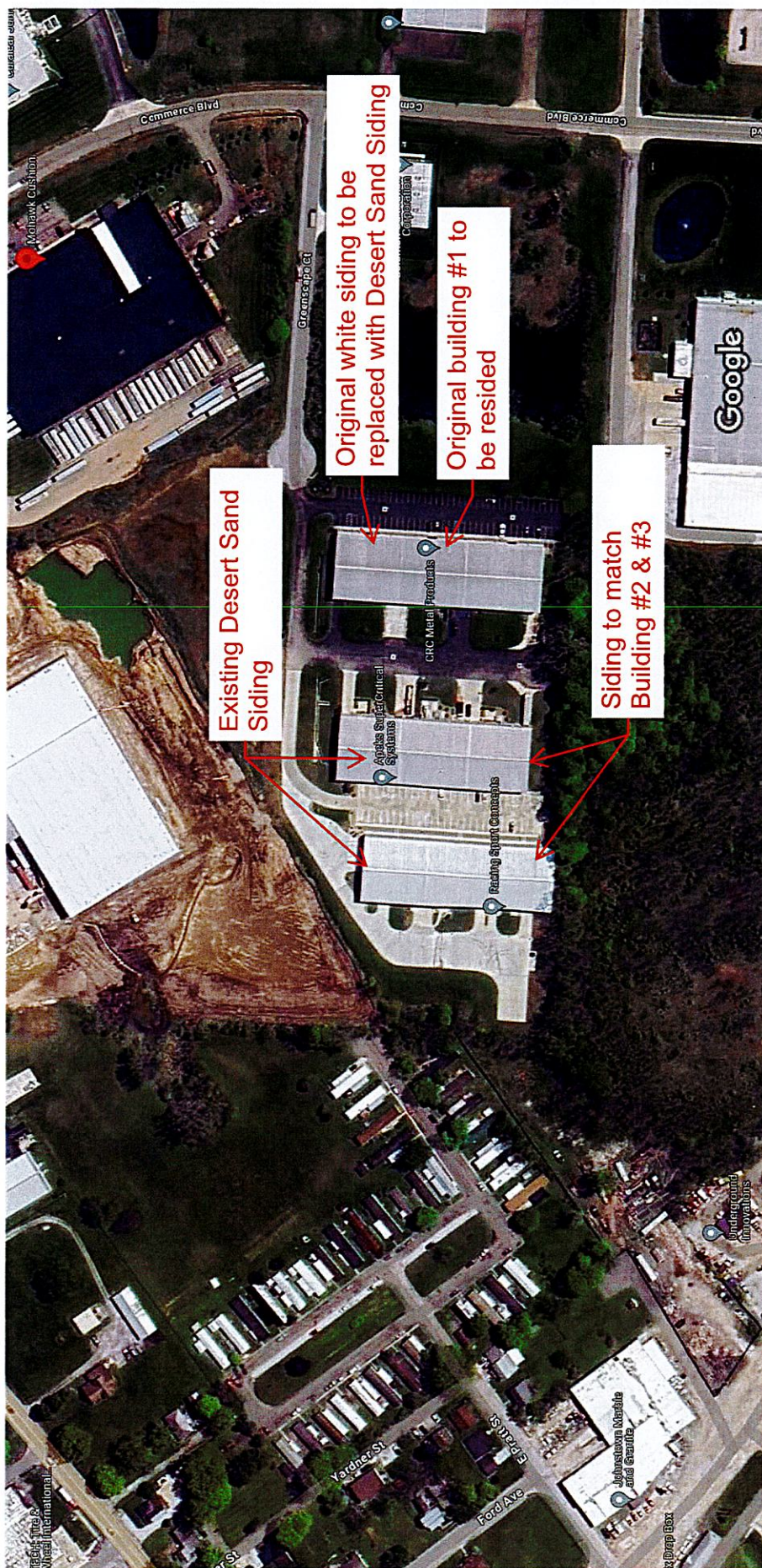
NE OF BUILDING #2

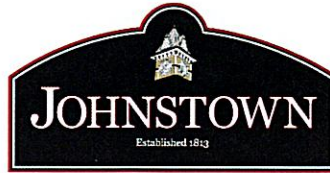


EXISTING DESERT SAND SIDING

BLDG #2

W SIDE OF BUILDING #2, N BUILDING #3





CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 8-5-5 Date: 8/5/24

FEES:

Base Fee: \$ 100

Total Fee Amount: \$ _____ Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: Buddy Dowell Phone: (740) 404 - 7265
2. Property Address: 105 W Jersey street City: Johnstown State: Oh Zip: 43031
3. Applicant's E-mail: jhdowell3@gmail.com /
4. Business Owner's Name: Same Phone: () -
5. Contractor's Name: Same Phone: () -
6. Principal Business Activity: _____
7. Existing Use of Property: Single family
8. Square Footage of Proposed Building or Business: 576 sq. ft.
9. Zoning District: Ur-2 Number of Off-Street Parking Spaces: 1
10. Estimated Cost of Improvements: \$17,000

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- PLEASE READ CITY ORDINANCE #1187 PRIOR TO SUBMITTING APPLICATION
- (Conditional) One (1) full set (8.5 x11) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed

buildings and alterations are required. Attach any requested, supplemental or necessary documentation.

Some of the requests below may not apply to your application.

- (1) A dimensioned site plan showing existing conditions including all structures, pavement, curb-cut locations, natural features such as tree masses and riparian corridors, and rights-of-way.
- (2) A dimensioned site plan showing the proposed site change including structures, pavement, revised curb-cut locations, landscaping, property lines and screening of mechanicals.
- (3) Illustration of all existing building elevations from street/ground to scale & picture of project before starting.
- (4) Illustrations of all proposed building elevations to scale & picture of project when it's finished.
- (5) Samples of proposed building materials.
- (6) Color samples for proposed roof, siding, etc.
- (7) Illustrations of all existing site signage including wall and ground.
- (8) Illustrations of proposed signage to scale.
- (9) A dimensioned site plan showing location of existing ground mounted signs.
- (10) A dimensioned site plan showing the proposed location of ground mounted signs.
- (11) Samples of proposed sign materials.
- (12) Color samples of proposed sign(s).
- (13) Proposed lighting plan for sign(s).
- (14) The applicant shall post one sign per public street frontage of the subject property within fifteen (15) feet of the curb indicating the subject, date, and time for a public hearing. The sign(s) shall be posted at least ten (10) days prior to the scheduled hearing. The sign(s) should be purchased at the Johnstown City Offices and will measure no less than two (2) feet by three (3) feet.

List of Materials that will be used on the project:

1. Wood 2. _____
3. Concrete 4. _____
5. Metal roof and siding 6. _____
7. _____ 8. _____

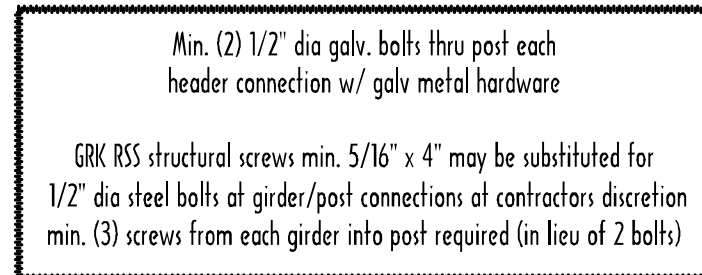
List of Contiguous Neighbors and Addresses:

1. _____
Neighbor's Name Neighbor's Address State Zip Code
2. _____
Neighbor's Name Neighbor's Address State Zip Code
3. _____
Neighbor's Name Neighbor's Address State Zip Code
4. _____
Neighbor's Name Neighbor's Address State Zip Code

Applicant's Signature: x 08/05/2024 Date: 08 / 05 / 2024

City Manager Signature: x _____

7/24/24 & 7/30/24	nwd
8/2/24 &	nwd
...	...



TOTAL ENCLOSED AREA =	576 SQ.FT.
-----------------------	------------

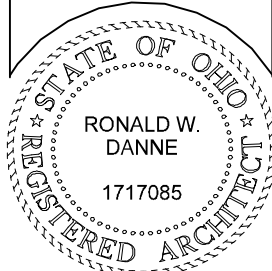
ELEVATIONS

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cell / txt : 614.207.6266
e-mail: damnednd@gmail.com
THESE PLANS MAY NOT BE REPRODUCED OR USED FOR CONSTRUCTION
WITHOUT WRITTEN CONSENT OF THE AUTHOR OF THE PLANS
ALL DESIGNS REMAIN THE EXCLUSIVE PROPERTY OF RON DANNE, AIA

Danne
Residential Design & Drafting LLC

Contractor:
B. Dowell
jhdowell3@gmail.com

An Proposed Polebarn Garage at:
105 Jersey St
City of Johnstown, Licking County OH

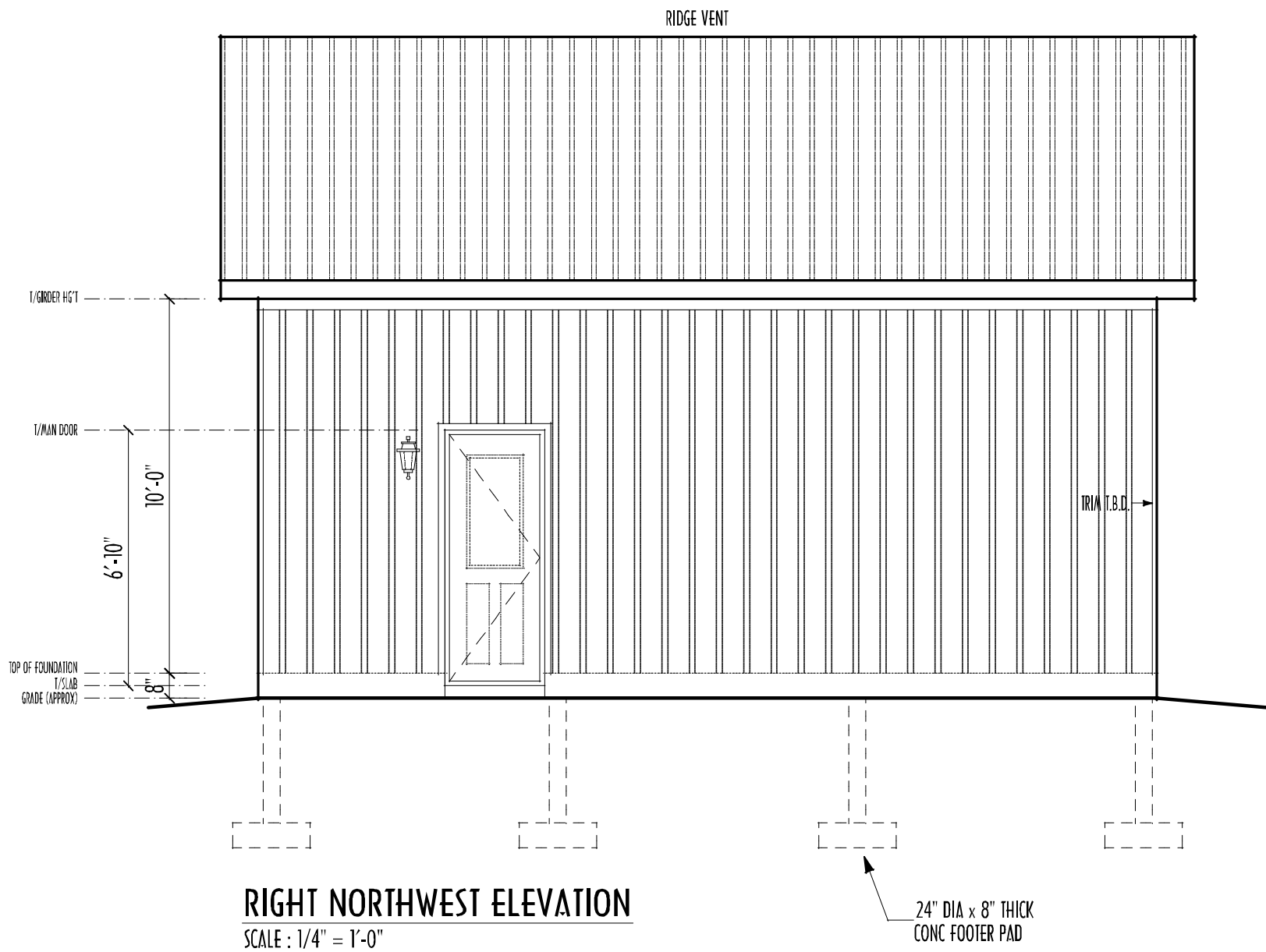
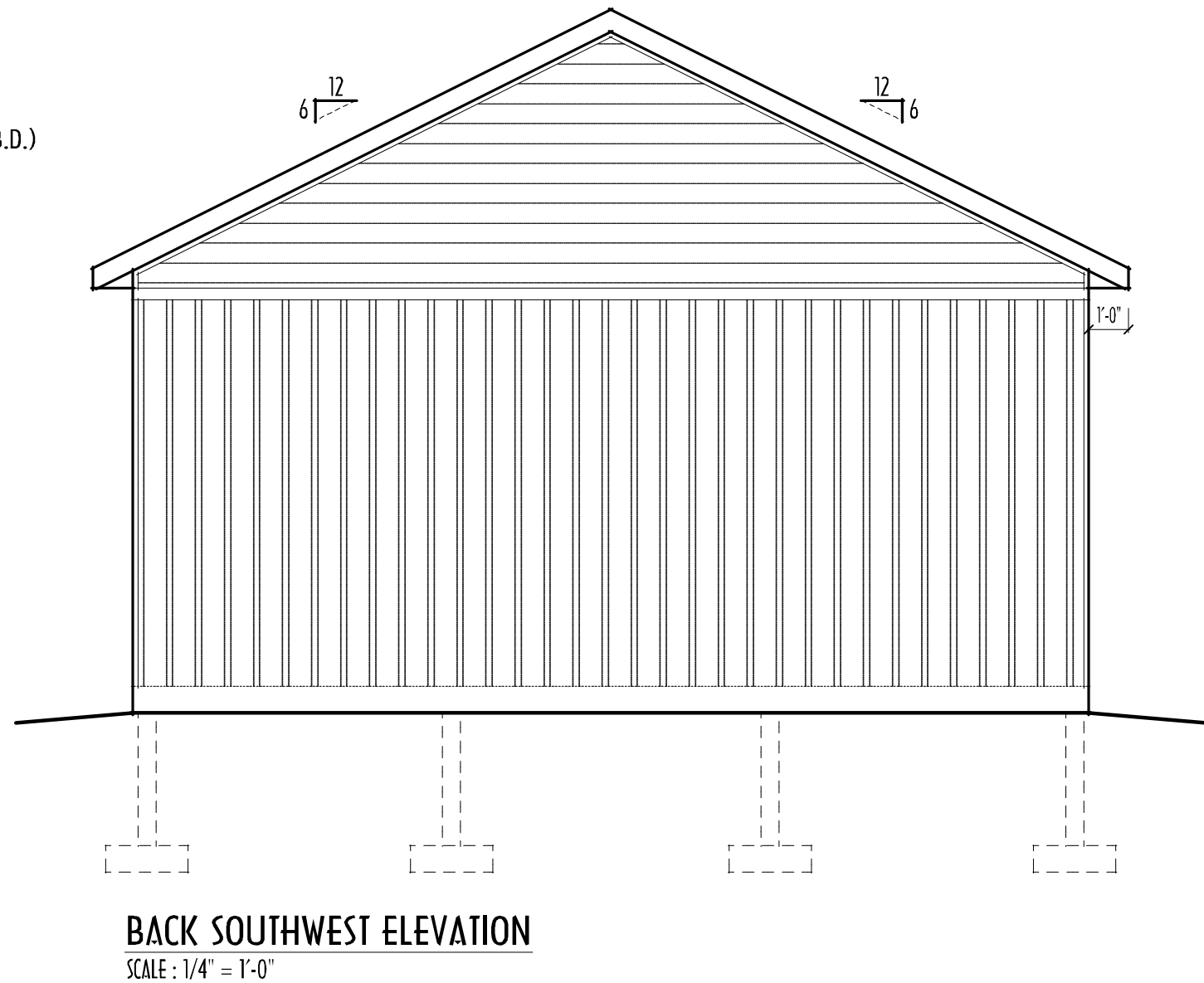
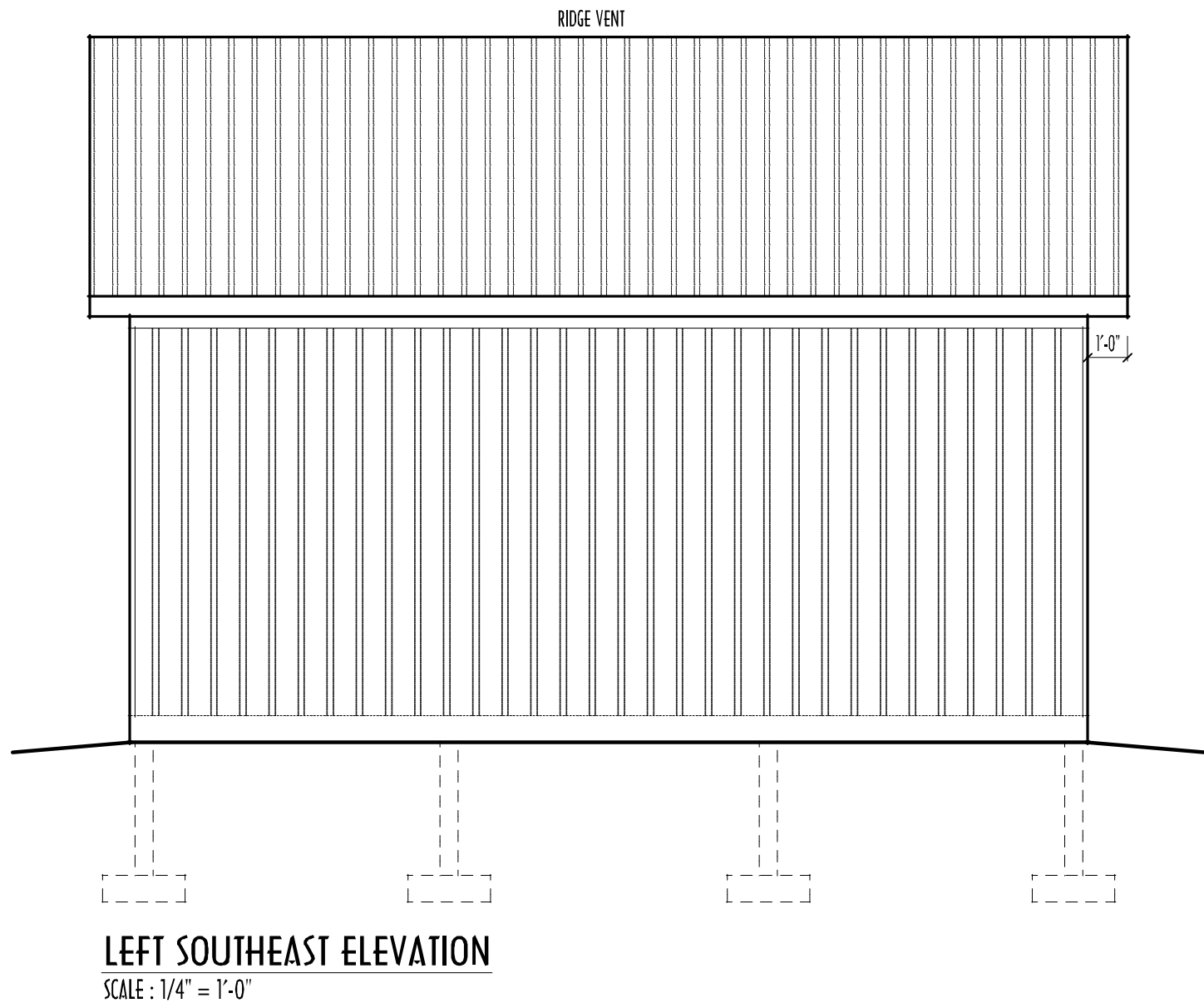
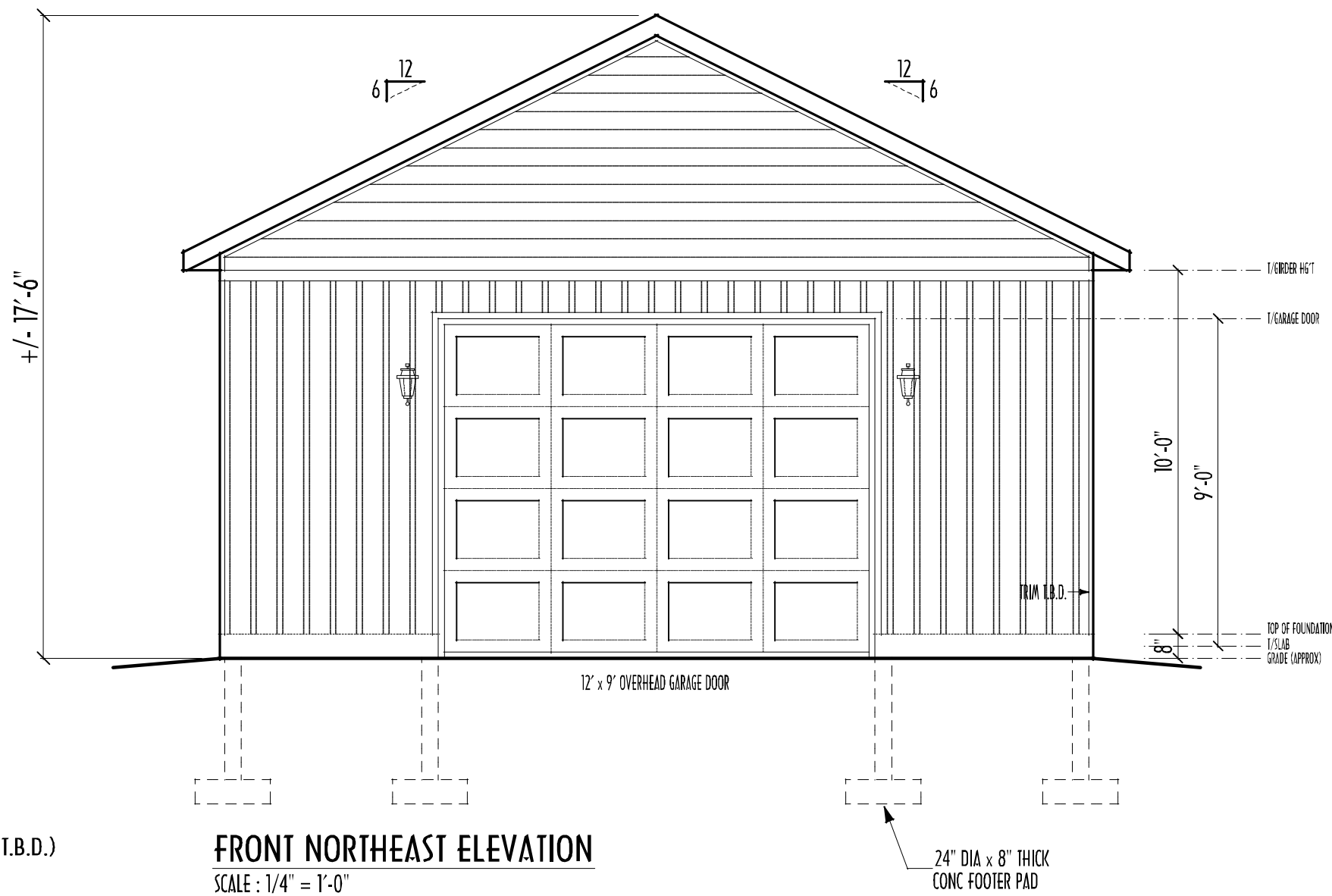


RONALD W. DANNE, LICENSE #1717085
EXPIRATION DATE 12/31/2025

Revisions	By:	Rev	Rev	Rev	Rev
7/24/24	8/7/24	24	24	24	24
8/7/24	8	24	24	24	24
...	...	...	...	...	...

Page: 3 of 4

TOTAL ENCLOSED AREA = 576 SQ.FT.



FINAL WINDOW DESIGN PER PROVIDER. ALL FRAMING ROUGH-OPENINGS TO BE BASED ON FINAL LAYOUT ONLY

EXACT WINDOW & DOOR GRID PATTERNS (MULLIONS) MAY DIFFER - REFER TO MANUFACTURER OR SUPPLIER

GRADE ELEVATION SHOWN IS APPROXIMATE
FIELD VERIFY & ADJUST FOUNDATION AS NECESSARY

- METAL ROOFING (TYPE T.B.D.)
- HORIZ. SIDING (TYPE T.B.D.)
- BOARD & BATTEN SIDING (TYPE T.B.D.)

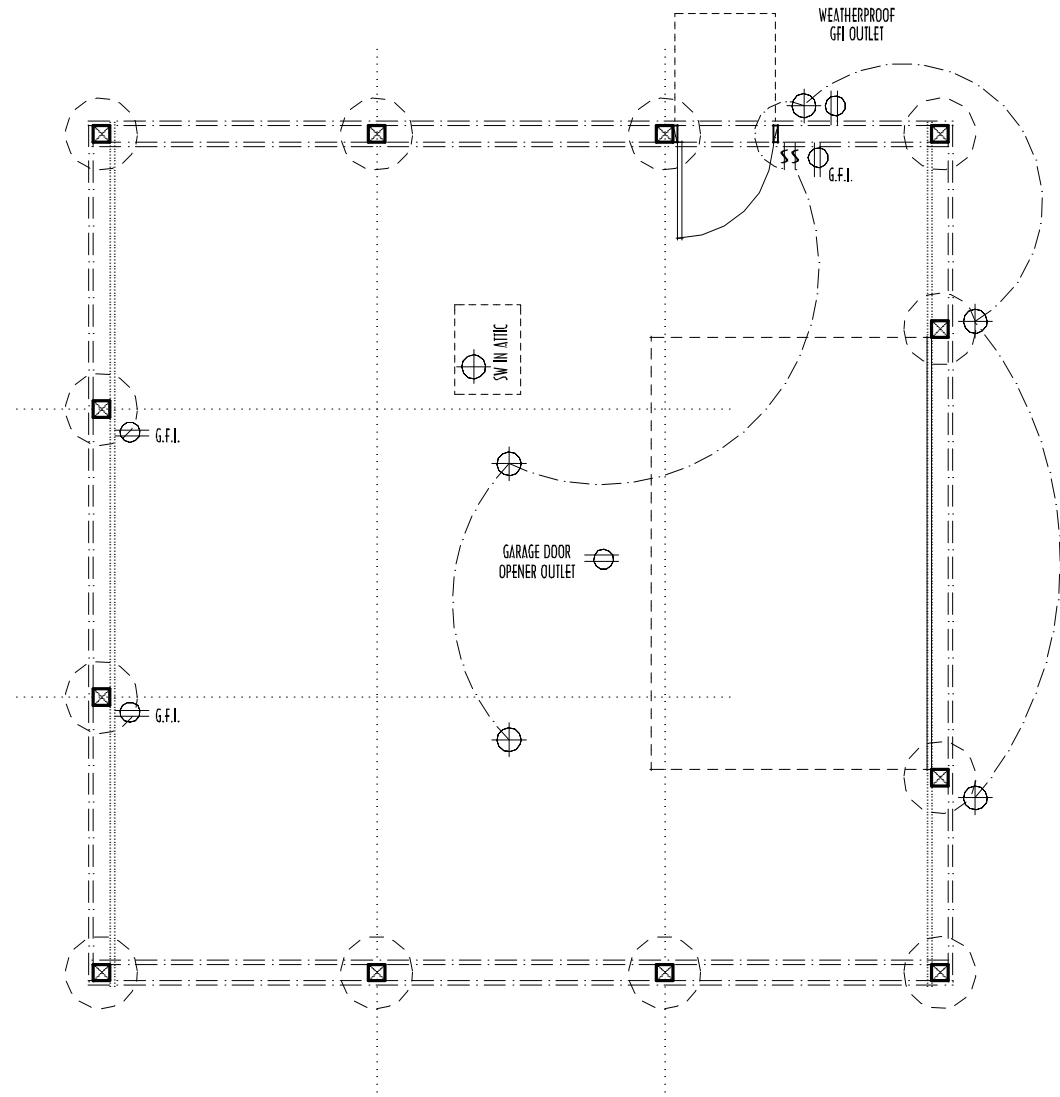
FIRST FLOOR WALLS AT 10" ABV 1/FND UNLESS NOTED
SEE ROOF PLAN FOR SOFFIT & RAKE SIZES

FLASH & CAULK ELEVATIONS AS NECESSARY TO PROVIDE A
A WEATHER-TIGHT SEAL BETWEEN MATERIALS, FRAMING & TRIM

WINDOWS & DOORS ARE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
CONFIRM WINDOW SIZES & ROUGH-OPENINGS WITH SUPPLIER

SLOPE GRADE AWAY FROM FOUNDATION FOR PROPER DRAINAGE

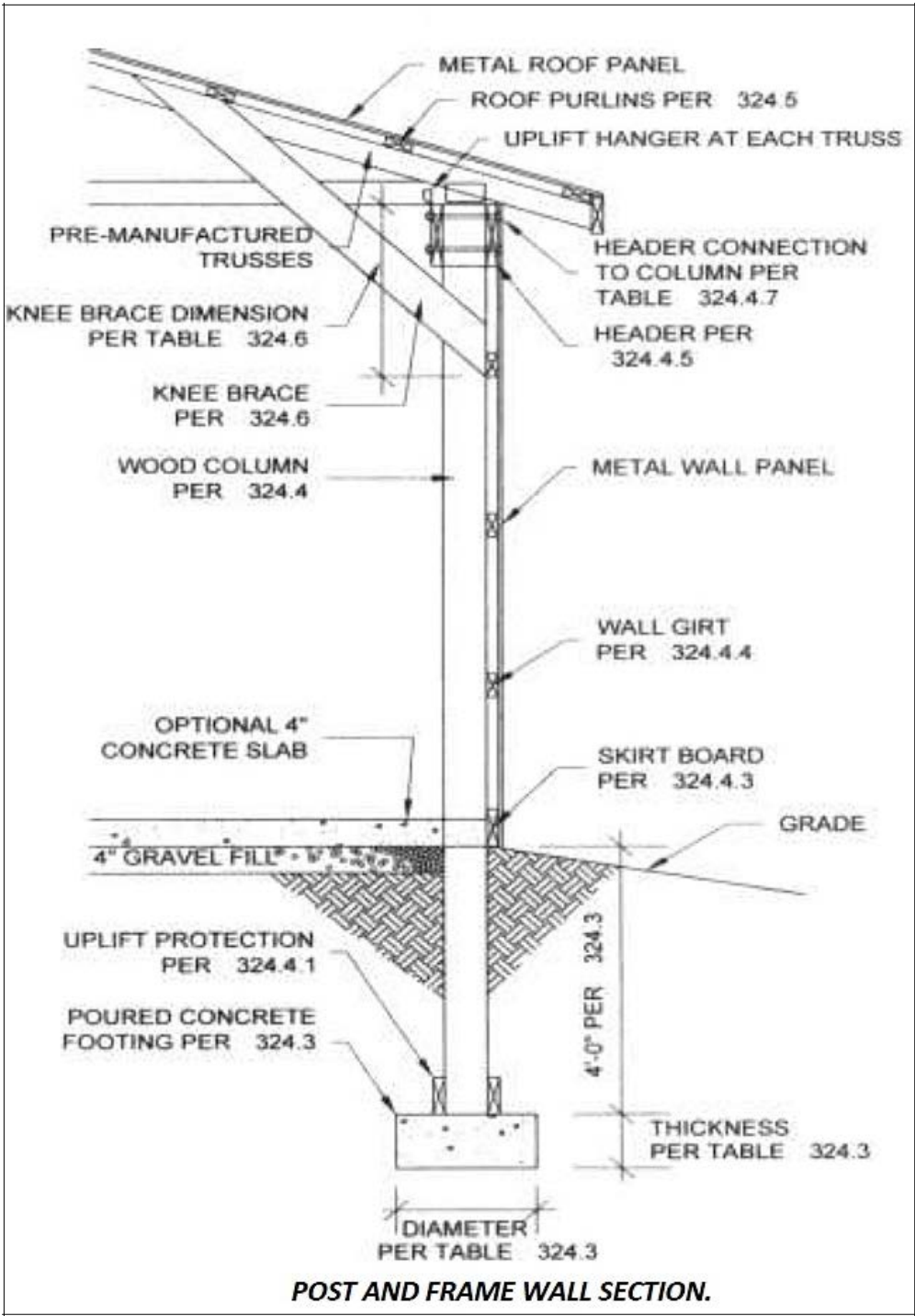
ALL EXTERIOR TRIM TO BE PVC/VINYL OR PER BLDGS SPECS



Preliminary 1st Flr Electrical Layout

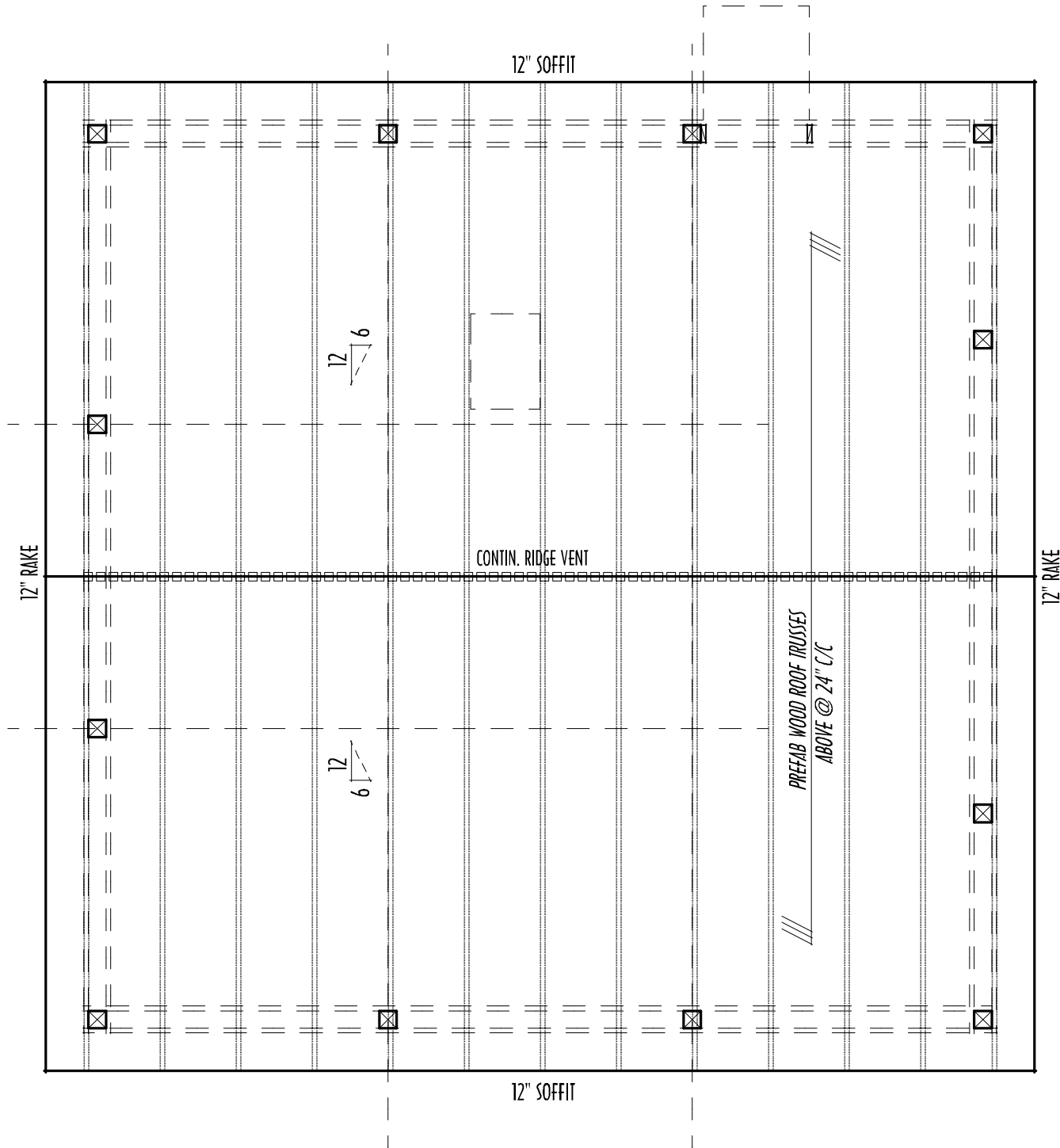
Scale : 3/16" = 1'-0"
For reference only - consult electrician for final electr plan
Coordinate with homeowner and install per code

omit knee braces with finished ceiling
7/16" o.s.b. or 1/2" drywall or metal liner pnl ceiling



Preliminary electrical layouts are for reference only - builder & owner are to walk the project after framing to determine final fixture layout w/ electrician

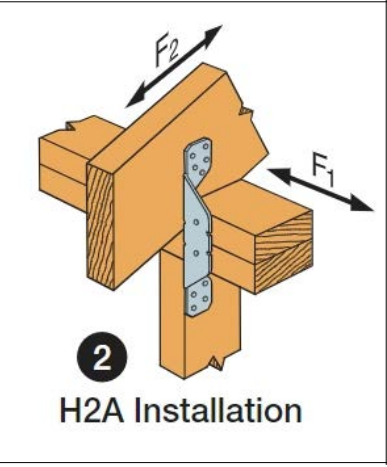
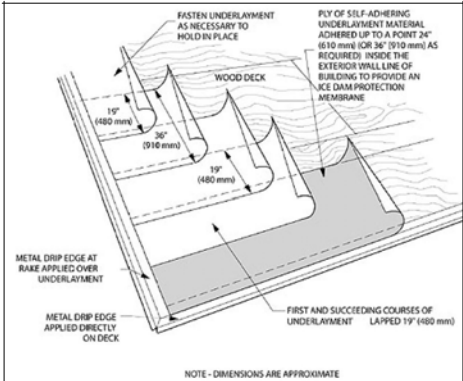
Roof Ventilation Calc's
HORIZONTAL AREA OF NEW ATTIC SPACES = 676 SQ.FT. DIVIDE HORIZ. AREA BY 300 (USING BOTH RIDGE & SOFFIT VENTS) REQUIRED SQ.FT. OF VENT OPENINGS = 2.25 SQ.FT. ACTUAL LINEAR FT. OF RIDGE VENT (24) = 24 LF x .11 PER = 2.64 SQ.FT. ACTUAL SQ.FT. OF SOFFIT VENT (MIN 12) = 12 x .25 = 3 SQ.FT. ACTUAL TOTAL SQ.FT. OF VENTS = 5.64 SQ.FT.



Preliminary Roof Framing Layout

Scale : 1/4" = 1'-0"

ALL EXTERIOR WALLS CAN BE CONSIDERED LOADBEARING. DO NOT DESIGN TRUSSES TO BEAR ON INTERIOR WALLS UNLESS NOTED AS "ABLE TO LOADBEAR" ON PLANS
PROVIDE APPROPRIATE FLASHING/WEATHERSEALING FOR ROOF / WALL INTERSECTIONS
PROVIDE APPROPRIATE FIRE-STOPPING IN ALL CONCEALED HORIZONTAL & VERTICAL DRAFT SPACES TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN EACH STORY AND ROOF
ROOF FRAMING CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ENGINEERING, MANUFACTURING, AND SAFE CONSTRUCTION OF ROOF FRAMING MATERIALS TO ENSURE COMPLIANCE WITH ANY APPLICABLE CODE REQUIREMENTS REGARDING ALLOWABLE SPANS, ACCEPTABLE MATERIALS, AND BUILDING SAFETY.



TOTAL ENCLOSED AREA = 576 SQ.FT.

Electrical Key

Outlet & fixture locations shown are for reference only. Exact locations & sizes are to be determined by electrical contractor and/or builder's specs

ALL WIRING & fixture installation to be done per NEC & local/state codes

- CEILING OR WALL MOUNTED LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- RECESSED / CAN LIGHT
- BATHROOM EXHAUST FAN
- ELECTRICAL OUTLET
- SMOKE DETECTOR
- COAX CABLE OUTLET
- TELEPHONE JACK
- EXTERIOR FLOOD LIGHTS
- SWITCH
- WIRE

GROUND-FAULT INTERRUPT CIRCUITS IN KITCHENS, GARAGES, AND ALL BATHS TYPICAL, PER NATIONAL ELECTRIC CODE (NEC)

GROUNDING ELECTRODE SYSTEM & CONDUCTOR SIZE PER NEC 250.66 (EXAMPLES INCLUDE WATER PIPE IN DIRECT CONTACT W/ EARTH FOR MIN 10FT -OR- CONC ENCASED ELECTRODE)

MIN (2) 20 AMP CIRCUITS IN KITCHEN, WITH RECEPTACLES EVERY 24" OF COUNTERTOP FOR APPLIANCES, PER NEC 210.52

FOR HABITABLE ROOMS, SPACE OUTLETS SO THAT NO SPACE IS MORE THAN 6FT HORIZONTALLY FROM A RECEPTACLE, PER NEC 210.52

AT LEAST ONE WEATHERPROOF G.F.I. OUTLET INSTALLED AT FRONT & BACK EXTERIOR OF HOUSE, NO MORE THAN 6.5FT ABV GRADE

EXPOSED INCANDESCENT LIGHTING FIXTURES ARE NOT PERMITTED IN CLOTHES CLOSETS PER NEC 410.16

ALL INTERIOR STAIRWAYS SHALL BE ADEQUATELY ILLUMINATED FROM ABOVE BY CEILING OR WALL FIXTURES SWITCHED AT BOTH BOTTOM & TOP OF STAIR RUN

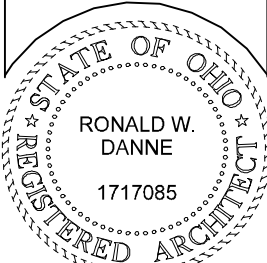
Roof / Elect

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cell / txt : 614.207.6266
e-mail: damnednd@gmail.com
THESE PLANS MAY NOT BE REPRODUCED OR USED FOR CONSTRUCTION WITHOUT WRITTEN CONSENT OF THE AUTHOR OF THE PLANS. ALL DESIGN REMAIN THE EXCLUSIVE PROPERTY OF RON DANNE, AIA

Danne
Residential Design & Drafting LLC

Contractor:
B. Dowell
jhdowell3@gmail.com

An Proposed Polebarn Garage at:
105 Jersey St
City of Johnstown, Licking County OH



RONALD W. DANNE LICENSE #1717085
EXPIRATION DATE 12/31/2025

Revisions	By:	
7/24/24	rw	24
8/2/24	rw	6
...	...	...



CERTIFICATE OF APPROPRIATENESS: CHAPTER #1187

Application Number: 7-30-5 Date: 7/30/24

FEES:

Base Fee: \$ 300

Total Fee Amount: \$ _____ Paid: Check # _____ Cash: \$ _____

(PLEASE PRINT)

1. Applicant: RT62 Car Wash Phone: (614) 429-7137
2. Property Address: 795 W Coshocton Street City: Johnstown State: OH Zip: 43031
3. Applicant's E-mail: rt62carwash@gmail.com
4. Business Owner's Name: Washn Dri LLC Phone: (614) 429-7137
5. Contractor's Name: N/A Phone: () -
6. Principal Business Activity: Car Wash
7. Existing Use of Property: Car Wash
8. Square Footage of Proposed Building or Business: 2000 sq. ft.
9. Zoning District: GCC-2 Number of Off-Street Parking Spaces: 0
10. Estimated Cost of Improvements: \$20000

IN ADDITION, THE FOLLOWING ITEMS MUST ACCOMPANY THIS APPLICATION:

- (Conditional) Eight full sets (11x17) of to scale plans and dimensioned drawings showing the property, with all elevations and the location of existing and proposed buildings and alterations are required. Attach any requested, supplemental or necessary documentation. **(Required only if asked for by the Zoning Inspector.)**

List of Materials that will be used on the project:

1. Steel/Aluminum 2. Concrete
3. Plastic 4. Plants/Mulch
5. _____ 6. _____
7. _____ 8. _____

List of Contiguous Neighbors and Addresses:

1. _____
Neighbor's Name _____ Neighbor's Address _____ State _____ Zip Code _____
2. _____
Neighbor's Name _____ Neighbor's Address _____ State _____ Zip Code _____
3. _____
Neighbor's Name _____ Neighbor's Address _____ State _____ Zip Code _____
4. _____
Neighbor's Name _____ Neighbor's Address _____ State _____ Zip Code _____

The undersigned is applying for a Certificate of Appropriateness Permit for the following use: said permit is to be issued based on the information contained within this application. The applicant hereby certifies that all information and attachments to this application are true & correct and agrees to follow all applicable laws.

Applicant's Signature: x CLP, Member Date: 7 / 29 / 2024

OFFICE USE ONLY:

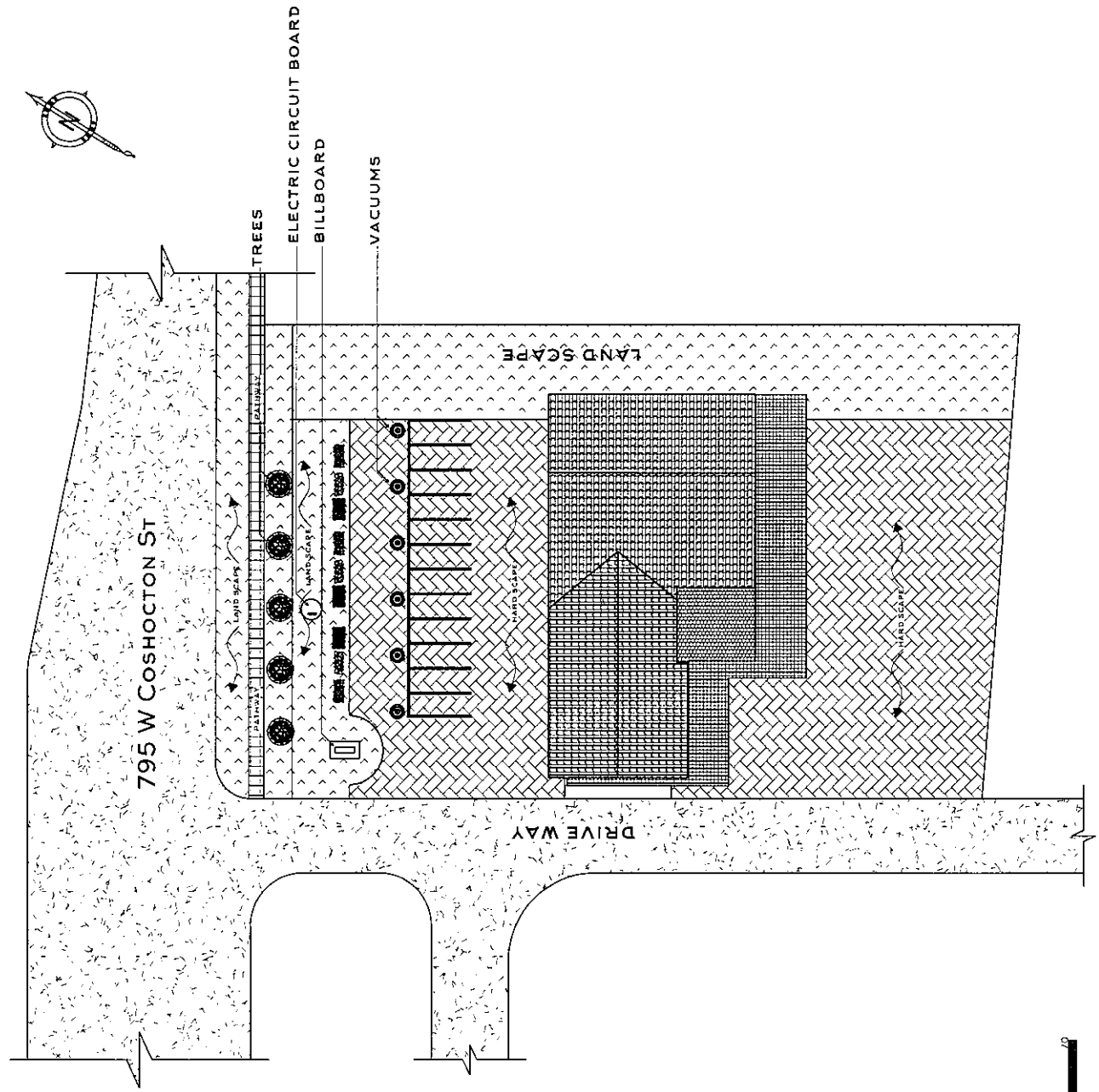
Date Received in Office: 7/30/24 By: T. Wymer

Date of Planning and Zoning Commission Meeting: 8/13/2024

Date Permit Approved or Denied by Planning Commission: ____/____/____

Conditions Necessary for Approval: _____

City Manager Signature: x _____



REVISIONS:-

CLIENT:-

PROJECT:-

DRAWN BY:-

SHEET TITLE:-

DATE:- 21-Jul-24

SCALE:-

SHEET NO:- A-101





6. TABLED Application # 10-10-1 795 W. Coshocton St.; Conditional Use Permit (US 62 Car Wash) Tabled November 14, 2023.

a. Application - Updated Materials

ACTION: Benjamin Lee moved to remove from the table for consideration; Jesse Coppel seconded and all were in favor.
AYES: Ryan Green, Jesse Coppel, Steve Dyer, Benjamin Lee, Kristen Hurst
NOES: None
ABSTAIN: None

Passed 5 - 0

Owner Christopher Palmer was present for the application. This Conditional Use permit application requesting modification of the site to remove street trees and install an alternative vacuum station was previously tabled at the November 14th, 2023 meeting in order to give the applicant time to look at options for several requirements triggered by the request for the changes. Board member review of the survey and updated plans provided. Discussion on conditions for approval.

Public Hearing: There were no comments either for or against the application.

ACTION: Steve Dyer moved to approve Application 10-10-1 with the following conditions:

1. That the sidewalk is extended all the way to the end of the property
2. Plant five (5) street trees along State Route 62
3. Plant three (3) trees on the northeast side of the property, near the parking lot
4. Plant two (2) trees at the rear of the property
5. Will not use the lights attached to the vacuums; or set to actuated upon use
6. Will bring the monument sign into conformity within twenty-four (24) months
7. Will put an enclosure around the dumpster and move it to a concrete pad in the green space area south of the blacktop, and put appropriate year round shrubs on three sides for screening

Jesse Coppel seconded and the vote was as follows:
AYES: Steve Dyer, Jesse Coppel, Ryan Green, Ben Lee, Kristen Hurst
NOES: None
ABSTAIN: None

Passed 5 - 0