NOTICE OF MEETING
VILLAGE OF FOX POINT
BUILDING BOARD

NOTE: THIS MEETING WILL BE HELD VIRTUALLY ONLY VIA WEBINAR. NO IN-PERSON ATTENDANCE HELD

Wednesday
December 11, 2024
5:00 P.M.

Join Zoom Meeting

https://us02web.zoom.us/j/89042272982

Meeting ID: 890 4227 2982

Dial by your location: 312.626.6799

AGENDA

1. Roll call of board members and quorum confirmation.
2. Discussion, corrections, and approval of the minutes of the November 13, 2024 Building Board meeting.
3. Jeff Langer, 8040 N Links Way, proposed deck and gazebo.
4. Crystal Flick, 723 E Juniper Ln, proposed addition on sunroom.
5. Michael Hool, 502 E Willow Rd, proposed additional panels added to existing solar system.
6. Adjourn.

Posted and Published: December 9, 2024

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Village Clerk at 414-351-8900. It is possible that members of, and possibly a quorum of members of, other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information; no action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice.

VILLAGE OF FOX POINT
BUILDING BOARD MINUTES

A meeting of the Building Board was held via Zoom, on Wednesday, November 13, 2024, at 5:00 pm. Those present included:

Justin Racinowski
William Feldman
Sharon Celek-absent
Lucille Sells
Brian Tobiczyk
Michael Rakow

Notice of the meeting was provided to the North Shore Now and to all others as required by State open meeting laws and posted on the official bulletin boards.

MINUTES

Motion was made by William Feldman to approve the minutes of October 9. Motion was seconded by Brian Tobiczyk. Motion Caried.

AGENDA

1. **Svapna Sabnis, 308 E Green Tree Rd, proposed roof mounted solar.** It was the consensus of the Building Board to approve as submitted.
2. **Andrea Cataldo, 7451 N Beach Ct Rd, proposed new windows & patio door.** It was the consensus of the Building Board to approve as submitted.
3. **Nic Ehr, 7922 N Port Wash Rd, proposed egress renovation.** It was the consensus of the Building Board to approve as submitted.
4. **Joseph Tate, 6807 N Lake Dr, proposed 4 season room addition.** It was the consensus of the Building Board to approve as submitted.
5. **Mandel Group, 7700 N Port Washington Rd, proposed freestanding sign.** It was the consensus of the Building Board to approve as submitted.
6. **Erik Ortega, 7620 N Fairchild Rd, proposed addition.** It was the consensus of the Building Board to approve as submitted.
7. **Valerie Sabatino, 6741 N Holly Ct, proposed addition & storage shed.** It was the consensus of the Building Board to approve as submitted.

ADJOURN

Motion to adjourn Building Board was made by William Feldman. Motion seconded by Lucille Sells. Motion Caried. Building Board adjourned at 6:28 pm.

Respectfully Submitted,

Michael Rakow
Building Inspector
Village of Fox Point

VILLAGE OF FOX POINT

VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

B- _____

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address 8040 N Links Way	**Building Type:** Residential ☑ Commercial ☐
Description of Work ~~garage~~ Deck & Holding up garage pc)	
Estimated Cost of Project $~~[illegible]~~ $4,100	

Owner/Occupant	
Business Name Patti & Jeff Lange	Contact Name Jeff Lange
Address 8040 N Links Way	City/State/Zip Mequon WI 53217
Phone 414-640-7246	Email JeffLange@aol.com

Cautionary Statement required when homeowner is applying for permit

Contractor	
Company Name	Contact Name
Address	City/State/Zip
Phone	Email
Dwelling Contractor #	Dwelling Contractor Qualifier #

Square Footage Under Construction				
1st Floor	2nd Floor	Basement	Addition	Garage

Description		**Rate**	**Amount**
Project - Per $1,000 of estimated cost	(4500 ≈	$10.00	~~40.00~~ 41 ≈
Building Board		$75.00	75.00
Footing early start - $230.00 one and two family; $305.00 commercial			
Plan Review - $275.00 one and two family; New Single Family Construction $330.00 plus $30.00/unit commercial			
State Seal		$75.00	
Razing, Interior Demolition $925.00 max/bld	$95.00 minimum plus	$0.13/sqft	
Moving buildings	$250.00 plus	$0.13/sqft	
Fuel tanks - Per 1,000 gallons		$25.00	
Re-inspection		$100.00	
Work started without permit		**Double**	
	Minimum Fee	**$70.00**	
Payable to: Village of Fox Point	**Total Permit Fee**		$ 120

Applicant Signature Jeffrey Lange **Date** 11/6/2024

Rev 01/22

ISSUED PERMITS are available on the Village website under *PERMITS & LICENSES*

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217 414-351-8900

Receipt No: 1.060916 Nov 19, 2024

8040 N LINKS WAY

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT 24-44460 BUILDING PERMIT	70.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE 24-44440 BUILDING BOARD - FEE	75.00
Total:	145.00
CHECK Check No: 8169 Payor: JEFF LANGER	145.00
Total Applied:	145.00
Change Tendered:	.00

11/19/2024 11:26 AM

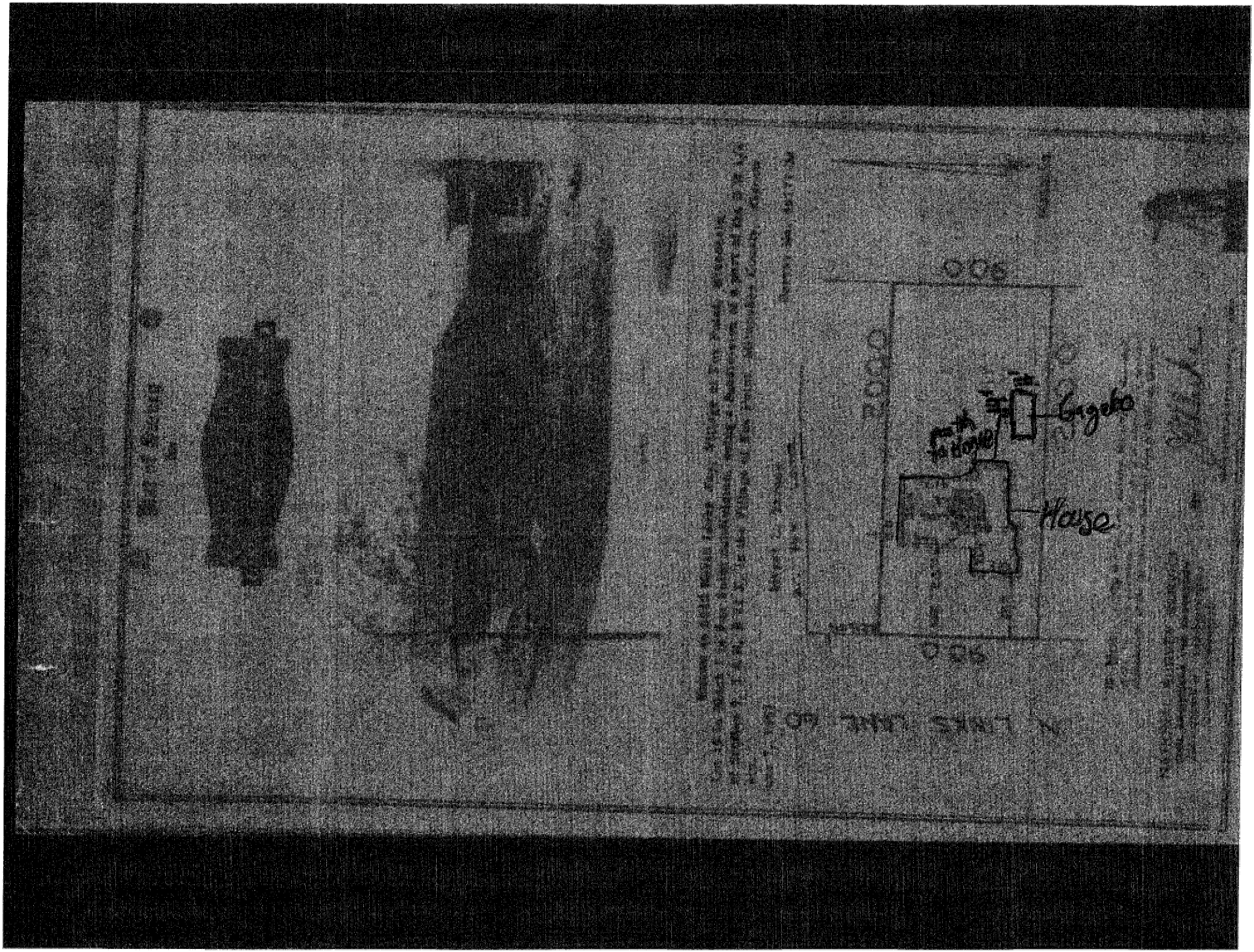
October 13, 2024

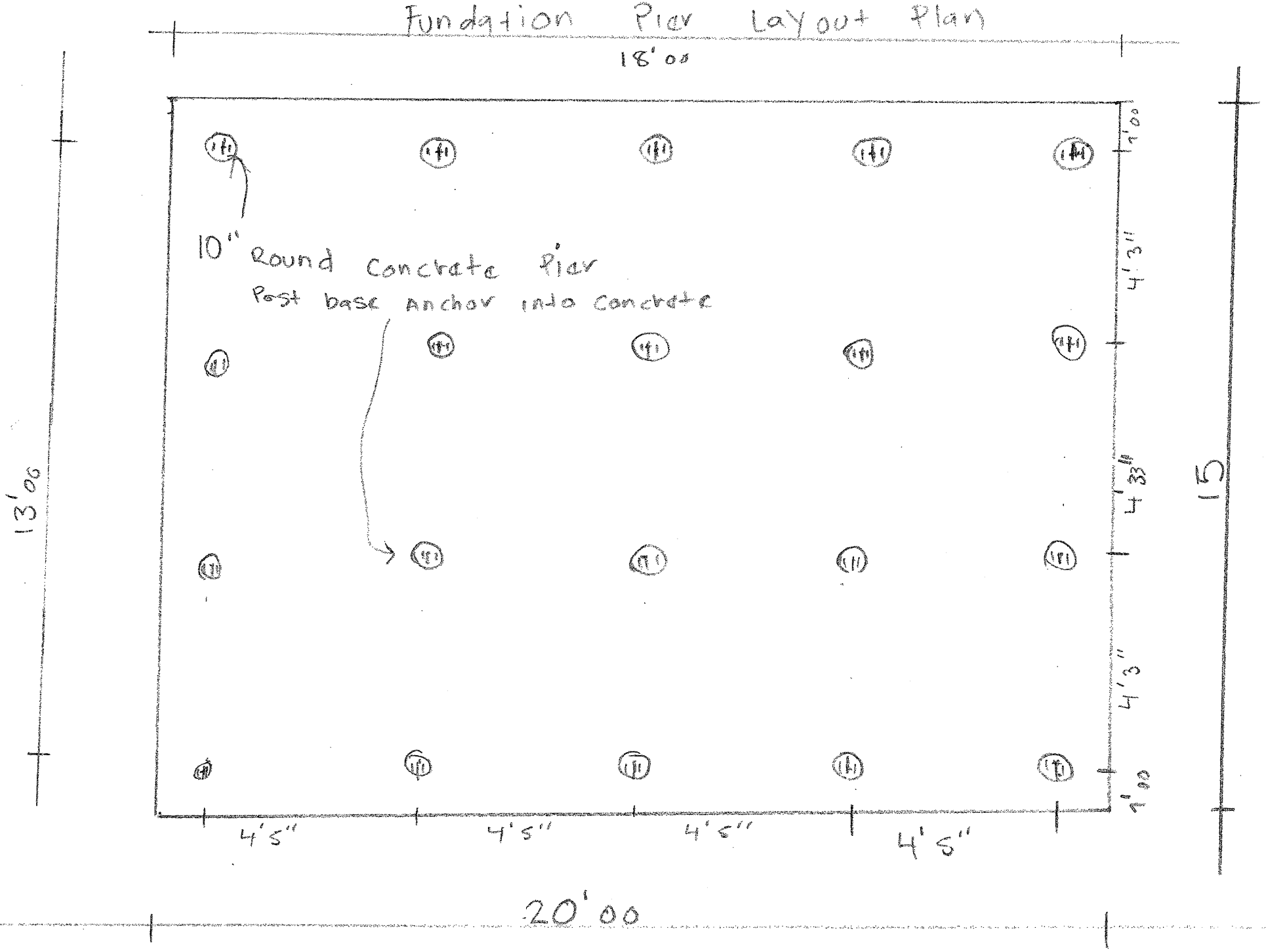
To the Village of FoxPoint Building Inspection Department

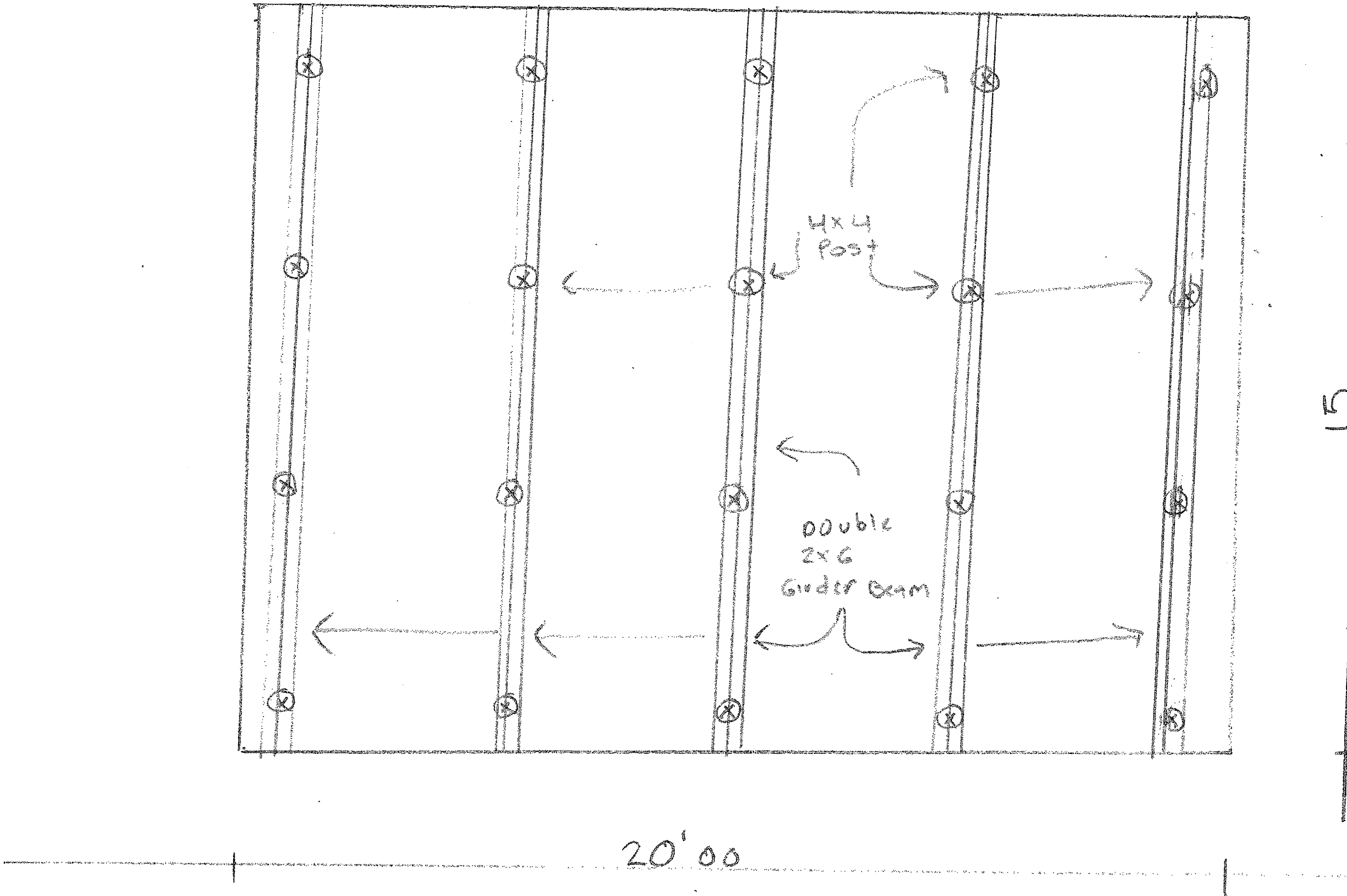
Patti and Jeff Langer would like to have a Gazebo built on the property located at 8040 N Links Way.

I have enclosed a survey showing the location of the Gazebo.
The dimensions of the back yard are 90'x200'(18,000 ft sq)
The Gazebo platform is 15'x18' = 270 ft sq
This leaves about 17,739 ft sq remaining in the back yard.

The intention is to build the platform from treated wood, about 3" -4" off the ground


Gagebo
House


Fundation Pier Layout Plan
18'00
10" Round Concrete Pier
Post base anchor into concrete
13'06
15
4'3"
4'3"
4'3"
1'00
1'00
4'5"
4'5"
4'5"
4'5"
20'00



Girder framing

Visscher

Find a Dealer

Region & Language

Visscher provides modular outdoor living structures to unite family and friends.

We have been manufacturing in Canada since 1997.

VILLAGE OF FOX POINT

VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

B- _____

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address 723 E Juniper Ln.	**Building Type:** Residential [X] Commercial [ ]
Description of Work Primary bathroom addition on top of existing sunroom.	
Estimated Cost of Project $ 40,000	

Owner/Occupant	
Business Name	Contact Name Crystal Flick / Justin Bergquist
Address 723 E Juniper Ln.	City/State/Zip Fox Point, WI
Phone 715.570.9803	Email crystalflick@gmail.com

Cautionary Statement required when homeowner is applying for permit

Contractor	
Company Name Nicholas Card Design	Contact Name Nick Konzal
Address 7031 St James St.	City/State/Zip Wauwatosa WI, 53213
Phone 414.510.3449	Email nick@nicholascardesign.com
Dwelling Contractor # 042200403	Dwelling Contractor Qualifier # 0622200747

Square Footage Under Construction				
1st Floor	2nd Floor 200	Basement	Addition	Garage

Description		Rate	Amount
Project - Per $1,000 of estimated cost		$10.00	$400
Building Board		$75.00	$ 75
Footing early start - $230.00 one and two family; $305.00 commercial			
Plan Review - $275.00 one and two family; New Single Family Construction $330.00 plus $30.00/unit commercial			
State Seal		$75.00	
Razing, Interior Demolition $925.00 max/bld	$95.00 minimum plus	$0.13/sqft	
Moving buildings	$250.00 plus	$0.13/sqft	
Fuel tanks - Per 1,000 gallons		$25.00	
Re-inspection		$100.00	
Work started without permit		**Double**	
	Minimum Fee	**$70.00**	
Payable to: Village of Fox Point		**Total Permit Fee**	$ 475

Applicant Signature _____ **Date** 11/20/24

Rev 01/22

ISSUED PERMITS are available on the Village website under *PERMITS & LICENSES*

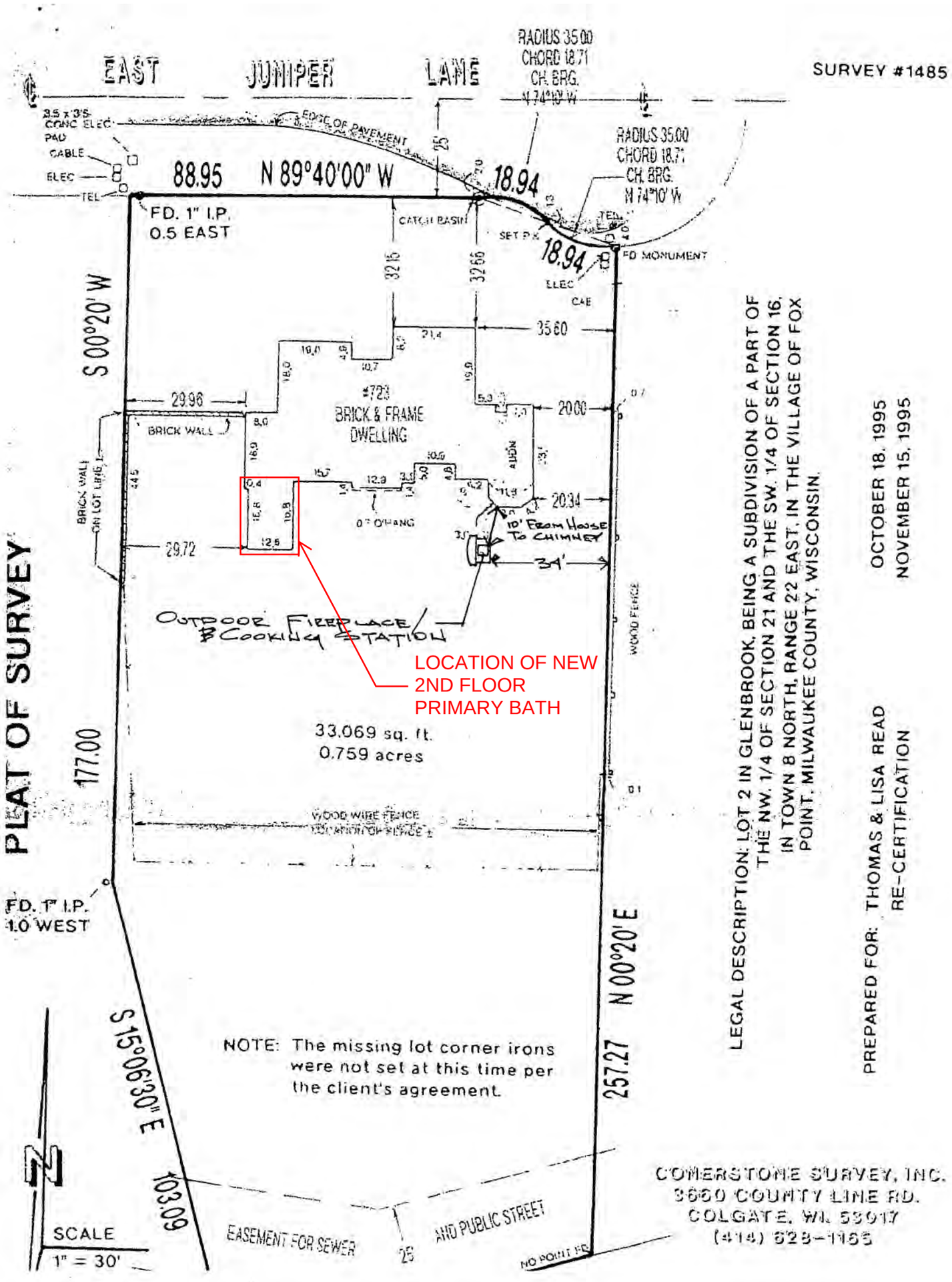
VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217 414-351-8900

Receipt No: 1.060918 Nov 20, 2024

723 E JUNIPER

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE 24-44440 BUILDING BOARD - FEE	75.00
LICENSES & PERMITS - BUILDING PERMIT 24-44460 BUILDING PERMIT	400.00
Total:	475.00
CHECK Check No: 3386 Payor: NICHOLAS CARL DESIGN	475.00
Total Applied:	475.00
Change Tendered:	.00

11/20/2024 1:58 PM


PLAT OF SURVEY
EAST JUNIPER LANE
RADIUS 35.00
CHORD 18.71
CH. BRG.
N 74°10' W
SURVEY #1485
3.5 x 3.5 CONC ELEC PAD
CABLE
ELEC
TEL
EDGE OF PAVEMENT
88.95 N 89°40'00" W
18.94
FD. 1" I.P. 0.5 EAST
CATCH BASIN
SET P.K.
FD MONUMENT
S 00°20' W
177.00
#723
BRICK & FRAME DWELLING
BRICK WALL
BRICK WALL ON LOT LINE
29.96
20.00
20.34
29.72
35.60
34'
10' From House To CHIMNEY
OUTDOOR FIREPLACE & COOKING STATION
LOCATION OF NEW 2ND FLOOR PRIMARY BATH
33,069 sq. ft.
0.759 acres
WOOD FENCE
WOOD WIRE FENCE
FD. 1" I.P. 1.0 WEST
S 15°06'30" E
103.09
N 00°20' E
257.27
NOTE: The missing lot corner irons were not set at this time per the client's agreement.
EASEMENT FOR SEWER
AND PUBLIC STREET
NO POINT FD
SCALE
1" = 30'
LEGAL DESCRIPTION: LOT 2 IN GLENBROOK, BEING A SUBDIVISION OF A PART OF THE NW. 1/4 OF SECTION 21 AND THE SW. 1/4 OF SECTION 16, IN TOWN 8 NORTH, RANGE 22 EAST, IN THE VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.
PREPARED FOR: THOMAS & LISA READ
OCTOBER 18, 1995
NOVEMBER 15, 1995
RE-CERTIFICATION
CORNERSTONE SURVEY, INC.
3660 COUNTY LINE RD.
COLGATE, WI. 53017
(414) 628-1165

NICHOLAS CARL

Bergquist Flick Existing Exterior Photos
723 E Juniper Ln., Fox Point

NICHOLAS CARL

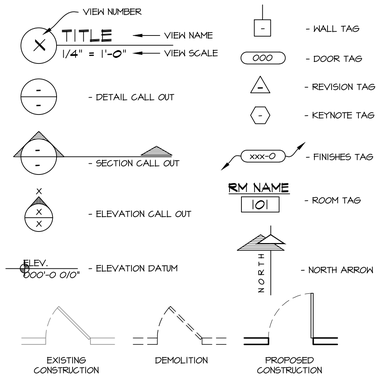
Bergquist Flick Existing Exterior Photos
723 E Juniper Ln., Fox Point

Existing sunroom structure that we will build the new primary bath onto

ABBREVIATIONS

AFF	Above Finished Floor
ALUM	Aluminum
ARCH	Architect
BLDG	Building
BLKG	Blocking
BRG	Bearing
CLG	Ceiling
CONC	Concrete
CONSTR	Construction
CONT	Continuous
CONTR	Contract(or)
CTR	Center
DP	Deep
DBL	Double
DET	Detail
DIA	Diameter
DIM	Dimension
DN	Down
DR	Door
DS	Downspout
DWG	Drawing
EA	Each
ELEC	Electrical
ELEV	Elevation
EP	Electrical Panel
EXT	Exterior
FC	Fire Code
FD	Floor Drain
FDN	Foundation
FG	Fiberglass
FIN	Finished
FLR	Floor
FT	Foot or Feet
FTG	Footing
GYP	Gypsum
HT	Height
HC	Handicap
HDR	Header
HR	Hour
HVAC	Heating, Ventilating & Air Conditioning
INCL	Including
INSUL	Insulation
INT	Interior
JST	Joist
KD	Kiln Dried
LAV	Lavatory
LT	Light
LVL	Laminated Veneer Lumber
MAX	Maximum
MC	Moisture Content
MECH	Mechanical
MET	Metal
MFR	Manufacturer
MIN	Minimum
MISC	Miscellaneous
NIC	Not in Contract
NO	Number
NONCOM	Noncombustible
NTS	Not to Scale
O/	On, Over
OC	On Center
OPNG	Opening
OPP	Opposite
OH	Overhead
PLY	Plywood
PROP	Property
PT	Point
PVMT	Pavement
PWR	Power
PSF	Pounds per Square Foot
PSL	Parallam Structure Lumber
PLF	Pounds per Linear foot
R	Riser
RAD	Radius
REF	Refrigerator
REINF	Reinforcing
REQD	Required
REV	Revision
RM	Room
RO	Rough Opening
SECT	Section
SHT	Sheet
SHTG	Sheeting
SIM	Similar
SPEC	Specified
STD	Standard
STOR	Storage
SYP	Southern Yellow Pine
T	Tread
T & G	Tongue & Groove
TEMP	Temporary
THK	Thick
TOF	Top of Footing
TRTD	Treated
TV	Television
TYP	Typical
UL DES	Underwriters Laboratory Designation
UNO	Unless Noted Otherwise
VB	Vapor Barrier
VCT	Vinyl Composite Tile
VEN	Veneer
W	Wide
W/	With
WD	Wood
WIN	Window
W/O	Without
WP	Weatherproof
WWF	Welded Wire Fabric
&	And
@	At
℄	Center Line
DIA	Diameter

SYMBOL LEGEND

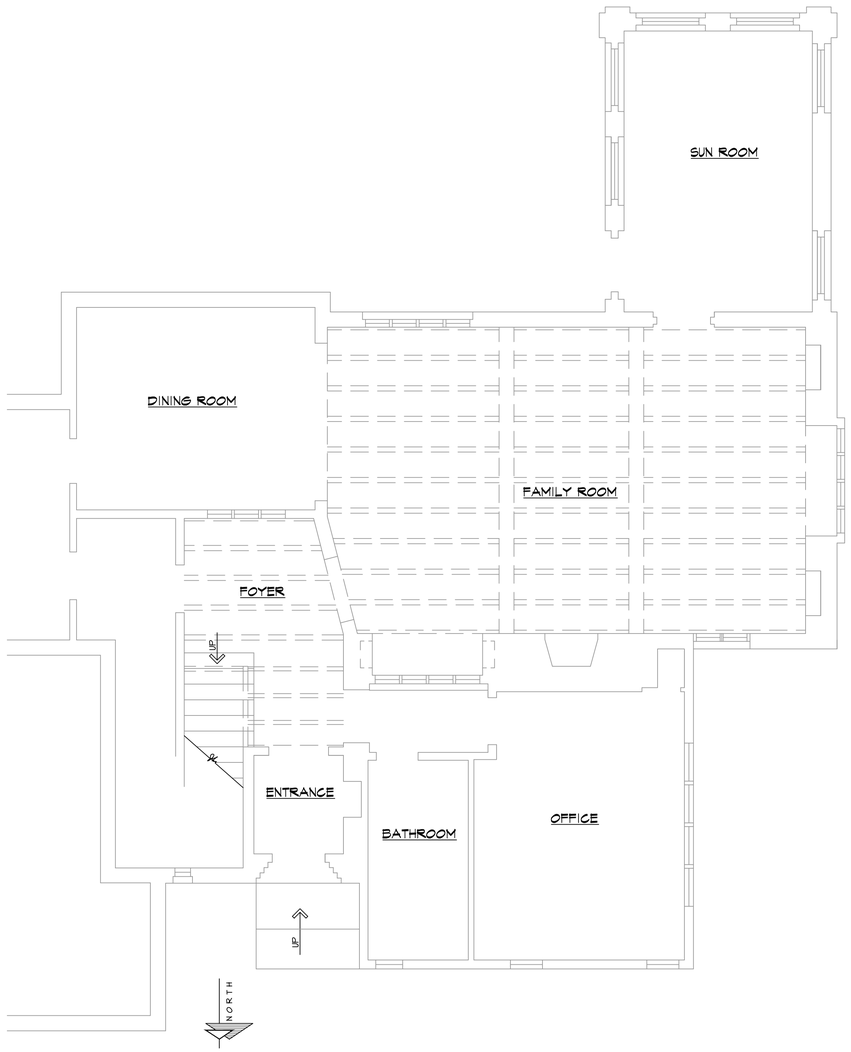


SCOPE OF DRAWING:

THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN INTENT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON THE BASIS OF GENERAL SCOPE INDICATED OR DESCRIBED, THE TRADE CONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK INTENDED.

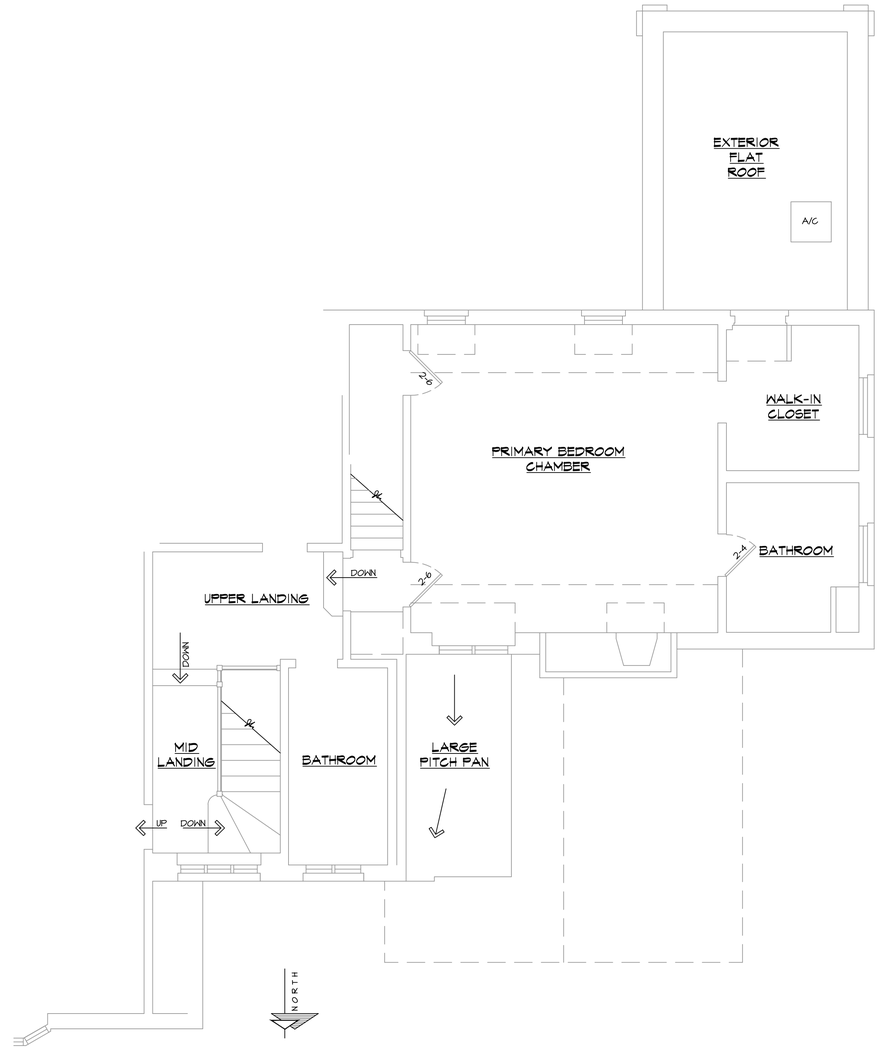
SHEET INDEX:

CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND THE EXACT LOCATION OF EXISTING PLUMBING, MECHANICAL, AND STRUCTURAL COMPONENTS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.



EXISTING FIRST FLOOR PLAN

1/4" = 1'-0"



EXISTING SECOND FLOOR PLAN

1/4" = 1'-0"

patera
ARCHITECTURE + ENGINEERING
4040 N. Calhoun Road Suite #200 • Brookfield, WI 53005
(OFFICE) 262-786-6776

REVISIONS:
9-24-24 FOUNDATION
9-26-24 RE-DESIGN
10-18-24 FNDTN CHANGE
11-18-24 PRE-ENG SET
-
-

FLICK-BERGQUIST ADDITION

723 E JUNIPER
FOX POINT, WI 53217

SHEET TITLE:
EXISTING FIRST AND SECOND FLOOR PLANS

EX-1

DATE: 8-1-24

PROJECT NUMBER: 24-275

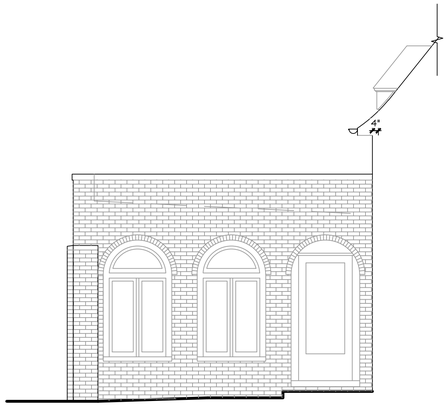
THIS ELEVATION IS DRAWN ONLY AS A REFERENCE TO THE OVERALL DESIGN OF THE HOME. NOTHING IS PLANNED TO BE CHANGED ON THIS ELEVATION.

EXISTING FRONT (NORTH) ELEVATION

1/8" = 1'-0"

EXISTING RIGHT (WEST) ELEVATION

1/4" = 1'-0"



EXISTING EAST ELEVATION

1/4" = 1'-0"

EXISTING BACK (SOUTH) ELEVATION

1/4" = 1'-0"

WALL KEY:

= EXIST. WALL TO REMAIN
= EXIST. WALL TO BE REMOVED
= NEW STUD WALL

patera
ARCHITECTURE + ENGINEERING
4040 N. Calhoun Road Suite #200 • Brookfield, WI 53005
(OFFICE) 262-786-6776

REVISIONS:
9-24-24 FOUNDATION
9-26-24 RE-DESIGN
10-18-24 FNDTN CHANGE
11-18-24 PRE-ENG SET
-
-

FLICK-BERGQUIST ADDITION

723 E JUNIPER
FOX POINT, WI 53217

SHEET TITLE:
EXISTING EXTERIOR ELEVATIONS

EX-2

DATE: 8-1-24

PROJECT NUMBER: 24-275

PLAN NOTES:

1. ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTORS MUST REVIEW ALL DETAILS OF THEIR TRADES AND BE RESPONSIBLE FOR THE SAME.
2. DO NOT SCALE DIMENSIONS FROM DRAWINGS. CONSULT GENERAL CONTRACTOR OR THE ARCHITECT WITH ANY QUESTIONS.
4. FOR PLACEMENT OF HOUSE ON LOT REFER TO SURVEYORS DRAWINGS. GRADES SHOWN ON THESE PLANS ARE ASSUMED, CONFIRM ALL GRADES WITH SURVEY OR SITE VERIFY.
5. ALL INTERIOR WALLS ARE 4-1/2" UNLESS OTHERWISE NOTED
6. ALL EXTERIOR WALLS ARE 6-1/2" UNLESS OTHERWISE NOTED
7. PLACEMENT OF BUILDING COMPONENTS, MECHANICAL EQUIP., APPLIANCES AND ELECTRICAL COMPONENTS IS SUBJECT TO FIELD ADJUSTMENT. ACTUAL CONSTRUCTION MAY NOT CONFORM EXACTLY TO THE LOCATIONS INDICATED ON THESE DRAWINGS

SCOPE OF DRAWING:

THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN INTENT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON THE BASIS OF GENERAL SCOPE INDICATED OR DESCRIBED, THE TRADE CONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK INTENDED.

CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND THE EXACT LOCATION OF EXISTING PLUMBING, MECHANICAL, AND STRUCTURAL COMPONENTS AND ADJUST THE PLANS AS NECESSARY TO ACCOMMODATE.

GENERAL NOTES

1. THE DESIGNER MAINTAINS NO RESPONSIBILITY FOR THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR THOSE WORKING IN SUCH CAPACITIES, FOR THE METHODS USED, OR LACK THEREOF, IN THE EXECUTION OF THE WORK AND SAFETY PROCEDURES AND PRECAUTIONS TAKEN AT THE PROJECT SITE.
2. CONTRACTORS SHALL ASSUME FULL RESPONSIBILITY - UNRELIEVED BY REVIEW OF SHOP DRAWINGS NOR BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS - FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING AND SCAFFOLDING, BRACING, ERECTION, FORM WORK, ETC.); FOR COORDINATION OF THE VARIOUS TRADES; FOR SAFE CONDITIONS ON THE JOB SITE; AND FOR THE PROTECTION OF THE PEOPLE AND PROPERTY AT THE JOB SITE.
3. THE INFORMATION CONTAINED ON THE DRAWINGS IS IN ITSELF INCOMPLETE, AND VOID UNLESS USED IN CONJUNCTION WITH ALL THE SPECIFICATIONS, TRADE PRACTICES, OR APPLICABLE STANDARDS, CODES, ETC., INCORPORATED THEREIN BY REFERENCE, OF WHICH THE CONTRACTOR CERTIFIES KNOWLEDGE BY SIGNING THE CONTRACT.
4. UNLESS NOTED OTHERWISE, ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE
5. UNLESS OTHERWISE SHOWN OR NOTED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND THE PLACEMENT OF ANY INSERTS, HANGERS, PIPE SLEEVES, HOLES OR ANCHOR BOLTS THAT ARE REQUIRED BY THE MECHANICAL OR ELECTRICAL EQUIPMENT.
6. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OCCUPATIONAL SAFETY HEALTH ACT REQUIREMENTS.
7. ALL STATE OF WISCONSIN, LOCAL AND O.S.H.A. SAFETY CODES SHALL BE A PART OF THESE PLANS, AND IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE THAT ALL PARTIES THAT WORK AT OR VISIT THE JOB SITE COMPLY WITH SAME.
8. 1/2" OSB SHALL BE NAILED TO TRUSSES AT A MAXIMUM OF 8" O.C.. STEEL H-CLIPS SHALL BE USED BETWEEN TRUSSES
9. ALL WOOD FOR EXTERIOR WALLS, INTERIOR BEARING WALLS SHALL BE SPF-#2 GRADE OR BETTER UNLESS OTHER WISE NOTES. FLOOR JOIST SHALL BE ENGINEERED JOIST. ALL WOOD REQUIRED TO COMPLETE THE ROOF SHALL BE PER ROOF TRUSS MANUFACTURER SPECIFICATIONS.
10. DESIGN DATA.
    LIVE LOAD ROOF 30#/SQ.FT. WIND LOAD 20#/SQ.FT.
    LIVE LOAD FLOOR 40#/SQ.FT. LIVE LOAD STAIRS 40#/SQ.FT.
    CONCRETE 3000 PSI
    REINFORCED STEEL YIELD 60,000 PSI. CRSI SPECIFICATIONS.
    ASSUMED SOIL PRESSURE 3000 PSF.
    COMPACTION OF ANY FILL REQUIRED UNDER FLOOR SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCOTOR TEST (ASTM 1557). THIRD PARTY TESTS SHALL BE REQUIRED TO BE FURNISHED TO DESIGNER TO INSURE THAT THE COMPACTION IS PER ABOVE.
11. ALL CONCRETE BLOCK SHALL BE STATE OF WISCONSIN APPROVED. BRICK SHALL BE SECURELY ATTACHED TO WOOD FRAMING WITH 22 GAUGE CORRUGATED GALVANIZED SHEET METAL TIES - 7/8" WIDE WITH AT LEAST ONE ANCHOR IN EVERY 2 SQUARE FEET OF WALL. MORTAR SHALL BE TYPE 'M'.
12. THERMAL PERFORMANCE BY OTHERS
13. VENTILATE ATTIC PER CODE.
14. ALL FRAMED WALLS IN PERIMETER OF BASEMENT (BOTH STRUCTURAL & FURRED WALLS) MUST BE INSULATED PER PLAN OR MINIMUM R-11 F.G. BATT.
15. TRUSS MANUFACTURER TO VERIFY FIREPLACE VENTING SPACE FOR ALL FIREPLACES.

NORTH

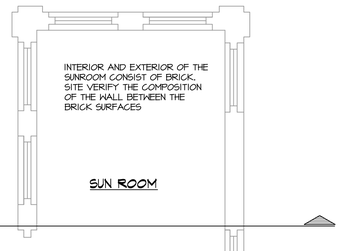
FIRST FLOOR PLAN

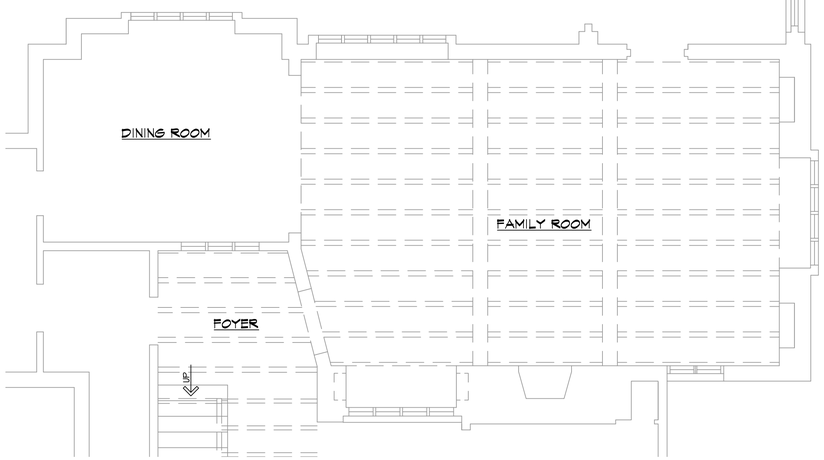
1/4" = 1'-0"

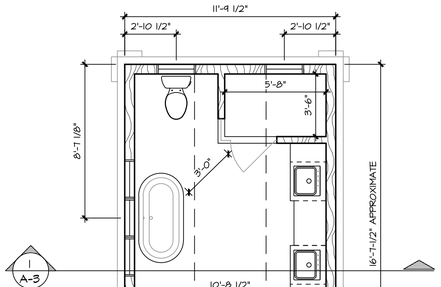
NEW BATHROOM IS TO BE LOCATED ABOVE THE SUNROOM

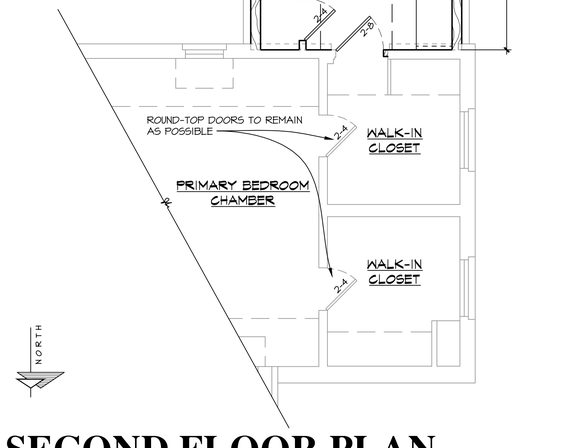
EXISTING CEILING MAY NEED FURTHER MODIFICATION TO ALLOW FOR PLUMBING WASTE AND WATER LINES FROM THE NEW BATHROOM ABOVE

INTERIOR AND EXTERIOR OF THE SUNROOM CONSIST OF BRICK. SITE VERIFY THE COMPOSITION OF THE WALL BETWEEN THE BRICK SURFACES









SECOND FLOOR PLAN

1/4" = 1'-0"

WALL KEY:

= EXIST. WALL TO REMAIN
= EXIST. WALL TO BE REMOVED
= NEW STUD WALL

patera
ARCHITECTURE + ENGINEERING
4040 N. Calhoun Road Suite #200 • Brookfield, WI 53005
(OFFICE) 262-786-6776

REVISIONS:
9-24-24 FOUNDATION
9-26-24 RE-DESIGN
10-18-24 FNDTN CHANGE
11-18-24 PRE-ENG SET
-
-

FLICK-BERGQUIST ADDITION

723 E JUNIPER
FOX POINT, WI 53217

SHEET TITLE:
PARTIAL BASEMENT FLOOR PLAN, FIRST FLOOR PLAN AND PROPOSED SECOND FLOOR BATHROOM

A-1

DATE: 8-1-24

PROJECT NUMBER: 24-275

REAR (SOUTH) ELEVATION

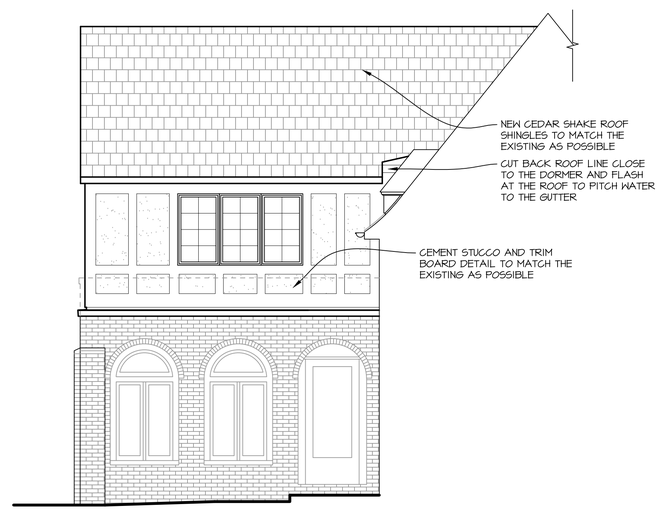
1/4" = 1'-0"

WALL KEY:

= EXIST. WALL TO REMAIN
= EXIST. WALL TO BE REMOVED
= NEW STUD WALL

RIGHT (WEST) ELEVATION

1/4" = 1'-0"



EAST ELEVATION

1/4" = 1'-0"

patera
ARCHITECTURE + ENGINEERING
4040 N. Calhoun Road Suite #200 • Brookfield, WI 53005
(OFFICE) 262-786-6776

REVISIONS:
9-24-24 FOUNDATION
9-26-24 RE-DESIGN
10-18-24 FNDTN CHANGE
11-18-24 PRE-ENG SET
-
-
-

FLICK-BERGQUIST ADDITION

723 E JUNIPER
FOX POINT, WI 53217

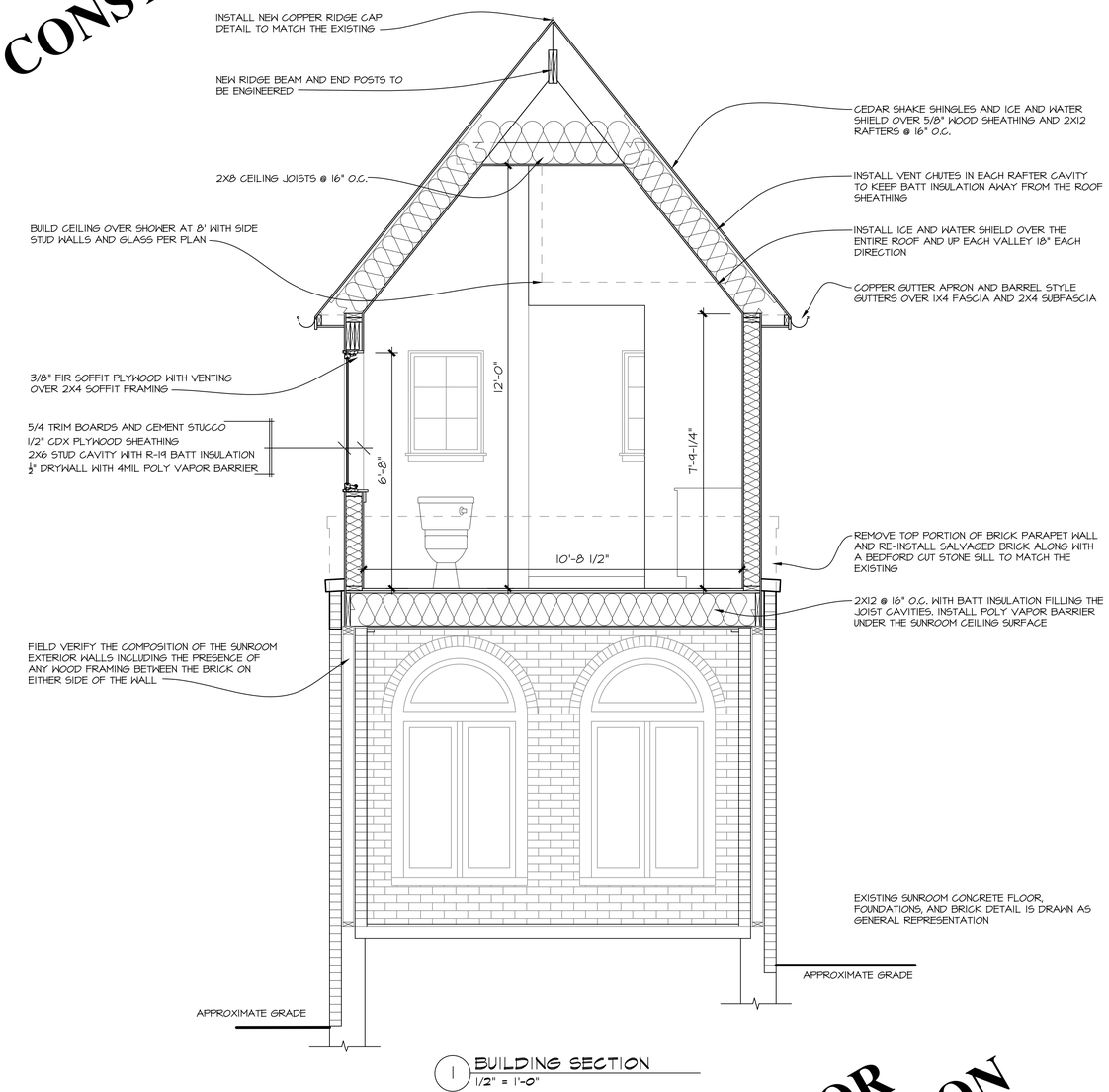
SHEET TITLE:
PROPOSED EXTERIOR ELEVATIONS

A-2

DATE: 8-1-24

PROJECT NUMBER: 24-275

NOT FOR CONSTRUCTION



1 BUILDING SECTION
1/2" = 1'-0"

NOT FOR CONSTRUCTION

WALL KEY:

= EXIST. WALL TO REMAIN
= EXIST. WALL TO BE REMOVED
= NEW STUD WALL

patera
ARCHITECTURE + ENGINEERING
4040 N. Calhoun Road Suite #200 • Brookfield, WI 53005
(OFFICE) 262-786-6776

REVISIONS:
9-24-24 FOUNDATION
9-26-24 RE-DESIGN
10-18-24 FNDTN CHANGE
11-18-24 PRE-ENG SET
-
-

FLICK-BERGQUIST ADDITION

723 E JUNIPER
FOX POINT, WI 53217

SHEET TITLE:
BUILDING SECTION

A-3

DATE: 8-1-24

PROJECT NUMBER: 24-275

VILLAGE OF FOX POINT

VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

B- _____

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address 502 E Willow Rd	**Building Type:** Residential ☑ Commercial ☐
Description of Work	
Additional panels being installed onto existing roof-mounted solar system	
Estimated Cost of Project $3,200	

Owner/Occupant	
Business Name	Contact Name Michael Hool
Address 502 E Willow Rd	City/State/Zip Fox Point, WI 53217
Phone (414) 791-8255	Email mhool.shr@gmail.com

Cautionary Statement required when homeowner is applying for permit*

Contractor	
Company Name Traditions LLC DBA SolEnergy	Contact Name Cory Besch
Address 7182 Hwy 14	City/State/Zip Middleton WI 53562
Phone 608-695-5740	Email approval@solenergysolar.com
Dwelling Contractor # 042100451	Dwelling Contractor Qualifier # 052100555

Square Footage Under Construction				
1st Floor	2nd Floor	Basement	Addition	Garage

Description		Rate	Amount
Project - Per $1,000 of estimated cost		$10.00	$32.00
Building Board		$75.00	$75.00
Footing early start - $230.00 one and two family; $305.00 commercial			
Plan Review - $275.00 one and two family; New Single Family Construction $330.00 plus $30.00/unit commercial			
State Seal		$75.00	
Razing, Interior Demolition $925.00 max/bld	$95.00 minimum plus	$0.13/sqft	
Moving buildings	$250.00 plus	$0.13/sqft	
Fuel tanks - Per 1,000 gallons		$25.00	
Re-inspection		$100.00	
Work started without permit		**Double**	
	Minimum Fee	**$70.00**	
Payable to: Village of Fox Point		**Total Permit Fee**	$107.00

Applicant Signature Michael Hool **Date** 11/14/24

Rev 01/22

ISSUED PERMITS are available on the Village website under *PERMITS & LICENSES*

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217 414-351-8900

Receipt No: 1.060927 Nov 25, 2024

502 E WILLOW RD

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	70.00
24-44460 BUILDING PERMIT	
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING BOARD - FEE	
Total:	145.00
CHECK Check No: 0507	145.00
Payor: TRADITIONS LLC	
Total Applied:	145.00
Change Tendered:	.00

11/25/2024 7:46 AM

VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

CAUTIONARY STATEMENT TO OWNERS OBTAINING BUILDING PERMITS

101.65(1r) of the Wisconsin Statutes requires municipalities that enforce the Uniform Dwelling Code to provide an owner who applies for a building permit with a statement advising the owner that:

If the owner hires a contractor to perform work under the building permit and the contractor is not bonded or insured as required under s. 101.654(2)(a), the following consequences might occur:

(a) The owner may be held liable for any bodily injury to or death of others or for any damage to the property of others that arises out of the work performed under the building permit or that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

(b) The owner may not be able to collect from the contractor damages for any loss sustained by the owner because of a violation by the contractor of the one- and two- family dwelling code or an ordinance enacted under sub. (1)(a), because of any bodily injury to or death of others or damage to the property of others that arises out of the work performed under the building permit or because of any bodily injury to or death of others or damage to the property of others that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

Wetlands Notice to Permit Applicants

You are responsible for complying with state and federal laws concerning the construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification web page or contact a Department of Natural Resources service

Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Michael Hool	502 E Willow Rd
Homeowner's Name – PRINTED	Property Address
Michael Hool	11/14/24
Homeowner's Signature	Date

Rev 09/20

NEW PHOTOVOLTAIC ROOF MOUNTED SYSTEM - 14.350 KW DC/10.500 KW AC
502 E WILLOW RD, FOX POINT, WI 53217

NEW PV SYSTEM SPECIFICATIONS

SYSTEM SIZE:	DC SIZE: 14.350 KW DC-(STC)
	AC SIZE: 10.500 KW AC
MODULE:	(35) JINKO SOLAR JKM410M-72HL-V
INVERTER:	(35) ENPHASE IQ8PLUS-72-2-US

APPLICABLE CODES

ALL WORK SHALL CONFORM TO THE FOLLOWING CODES:
2015 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL RESIDENTIAL CODE
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
AS ADOPTED BY VILLAGE OF FOX POINT

DESIGN CRITERIA

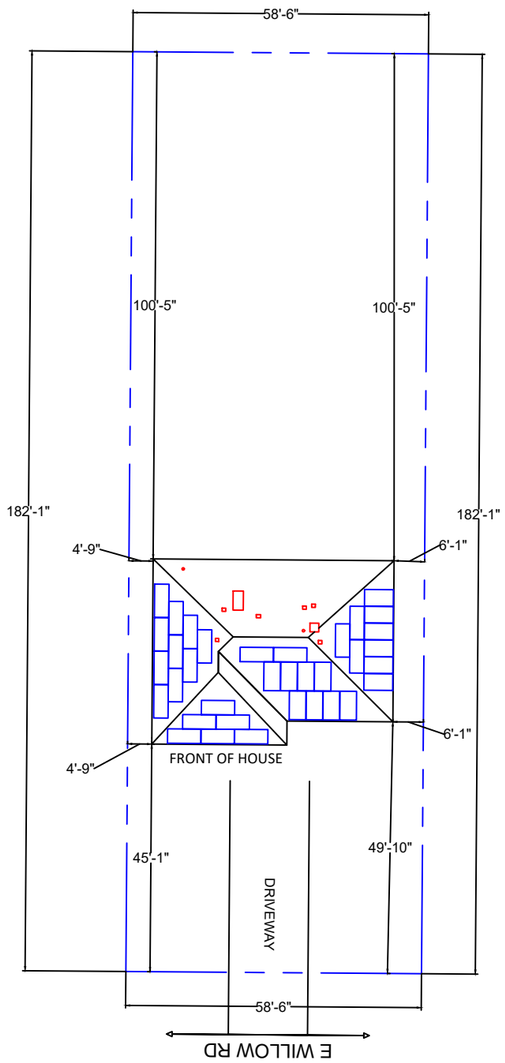
ROOF SURFACE TYPE: COMPOSITE SHINGLE
ROOF FRAMING: 2"X4" TRUSS @ 24" OC
BUILDING STORY: ONE STORY
GROUND SNOW LOAD: 30 PSF
WIND SPEED: 115 MPH
WIND EXPOSURE: B
RISK CATEGORY: I

PROJECT NOTES

1.1.1 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE RELEVANT YEAR OF THE NATIONAL ELECTRIC CODE (NEC), ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
1.1.2 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND THE PV SYSTEM MUST BE INSPECTED PRIOR TO OPERATION
1.1.3 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 AND OTHER GOVERNING CODES
1.1.4 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.

SCOPE OF WORK

1.2.1 CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTION OF EXISTING ONSITE CONDITIONS TO DESIGN, SPECIFY, AND INSTALL THE ROOF-MOUNTED PHOTOVOLTAIC SYSTEM DETAILED IN THIS DOCUMENT



N

1 PV-01 PROPERTY PLAN

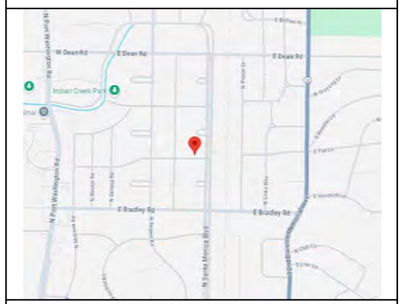
SCALE:1"-30'-0"

SHEET INDEX

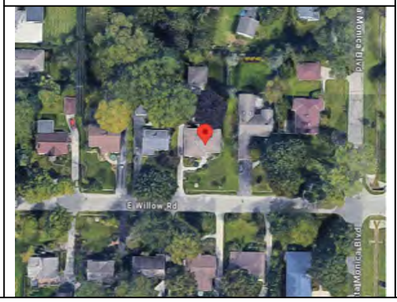
LEGEND

- PROPERTY LINE
- FENCE LINE

VICINITY MAP



SATELLITE MAP



CONTRACTOR

SOLENERGY

TRADITIONS LLC DBA SOL ENERGY LLC
7182 HWY 14, UNIT 201
MIDDLETON, WISCONSIN
53562
LIC. NO. - DC-042100451

PROJECT NAME & ADDRESS

MICHAEL HOOL RESIDENCE

502 E WILLOW RD,
FOX POINT, WI 53217
APN #: 0590020000

AHJ: VILLAGE OF FOX POINT
UTILITY: WE ENERGIES

SYSTEM DETAILS

DC SIZE: 14.350 KW DC-(STC)
AC SIZE: 10.500 KW AC
(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

COVER PAGE

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

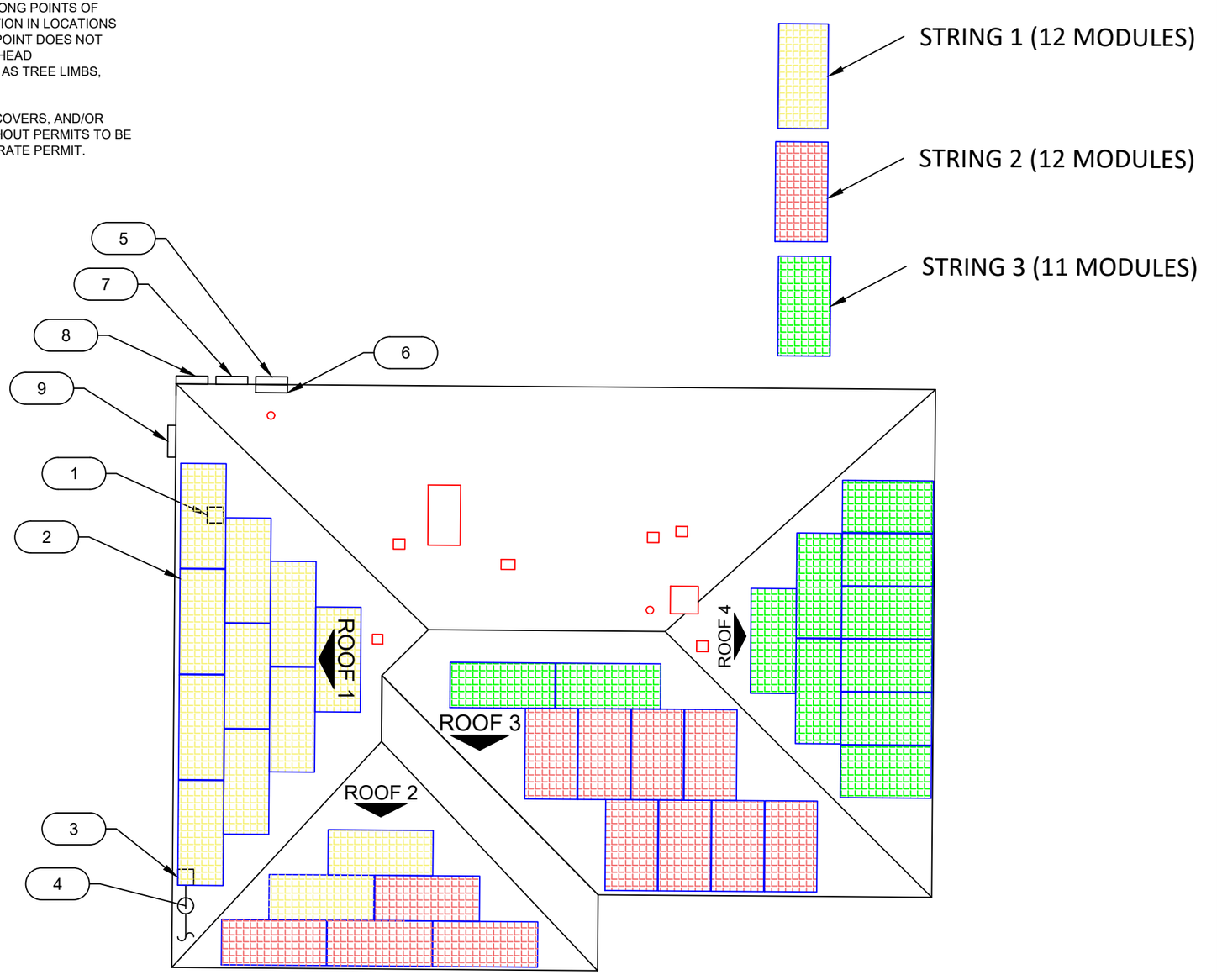
PV-01

NOTES:

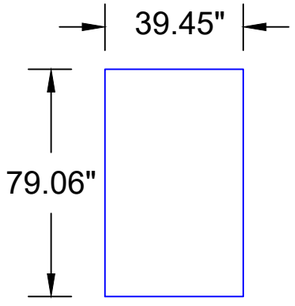
1. ROOF ACCESS POINT SHALL NOT BE LOCATED IN AREAS THAT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.

2. STRUCTURES, PATIO COVERS, AND/OR ADDITIONS BUILT WITHOUT PERMITS TO BE RESOLVED BY A SEPARATE PERMIT.

PLAN VIEW TOTAL ROOF AREA:	1849.08 FT²
TOTAL PV ARRAY AREA:	758.07 FT²
TOTAL % OF ROOF COVERED BY PV:	41.00%



FRONT OF HOUSE

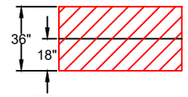


N

1 PV-02 SITE PLAN

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

LEGEND



FIRE SETBACKS

= MECHANICAL VENT

= FLUE / PLUMBING VENT

1 MICROINVERTER (1 PER MODULE)

2 PV MODULES

3 JUNCTION BOX; SIZE DETERMINED IN FIELD

4 CONDUIT RUN; SURFACE MOUNTED (ACTUAL CONDUIT RUNS TO BE DETERMINED IN FIELD)

5 UTILITY METER

6 MAIN SERVICE PANEL

7 PV PRODUCTION METER

8 AC DISCONNECT

9 ENPHASE IQ COMBINER BOX

ROOF 1	SLOPE	- 18°
	AZIMUTH	- 270°
	MODULE QTY	- 10
	TRUSS	- 2"X4" @ 24" O.C.
	SURFACE TYPE	- COMPOSITE SHINGLE
ROOF 2	SLOPE	- 18°
	AZIMUTH	- 180°
	MODULE QTY	- 6
	TRUSS	- 2"X4" @ 24" O.C.
	SURFACE TYPE	- COMPOSITE SHINGLE
ROOF 3	SLOPE	- 18°
	AZIMUTH	- 180°
	MODULE QTY	- 10
	TRUSS	- 2"X4" @ 24" O.C.
	SURFACE TYPE	- COMPOSITE SHINGLE
ROOF 4	SLOPE	- 18°
	AZIMUTH	- 90°
	MODULE QTY	- 9
	TRUSS	- 2"X4" @ 24" O.C.
	SURFACE TYPE	- COMPOSITE SHINGLE

CONTRACTOR

SOLENERGY

TRADITIONS LLC DBA SOL ENERGY LLC
7182 HWY 14, UNIT 201
MIDDLETON, WISCONSIN
53562
LIC. NO. - DC-042100451

PROJECT NAME & ADDRESS

MICHAEL HOOL RESIDENCE

502 E WILLOW RD,
FOX POINT, WI 53217
APN #: 0590020000

AHJ: VILLAGE OF FOX POINT
UTILITY: WE ENERGIES

SYSTEM DETAILS

DC SIZE: 14.350 KW DC-(STC)
AC SIZE: 10.500 KW AC
(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

SITE PLAN

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-02

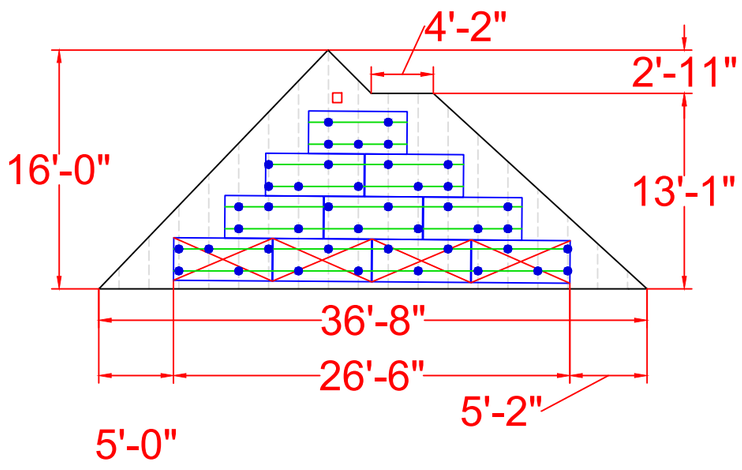
DISTRIBUTED LOAD CALCULATIONS	
MODULE	JINKO SOLAR JKM410M-72HL-V
MODULE WEIGHT	49.6 LBS
MODULE DIMENSIONS (L" x W")	79.06" x 39.45"
TOTAL QTY. OF MODULES	35
TOTAL WEIGHT OF MODULES	1736.00 LBS
TYPE OF RACKING	SUNMODO SMR-100
TYPE OF ATTACHMENT	SUNMODO NANO MOUNTS
DISTRIBUTED WEIGHT OF RACKING	0.5 PSF
TOTAL WEIGHT OF ARRAY	2115.04 LBS
AREA OF MODULE	21.66 SQFT.
TOTAL ARRAY AREA	758.07 SQFT.
DISTRIBUTED LOAD	2.79 PSF

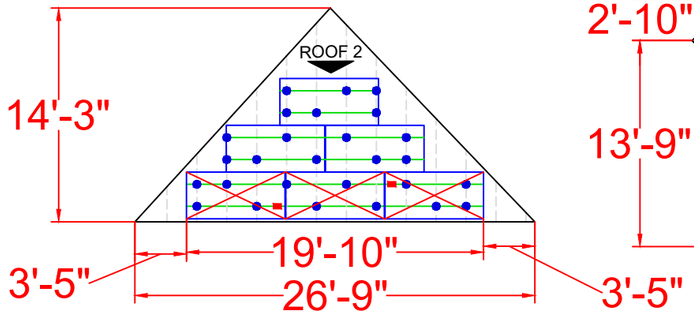
NOTE:

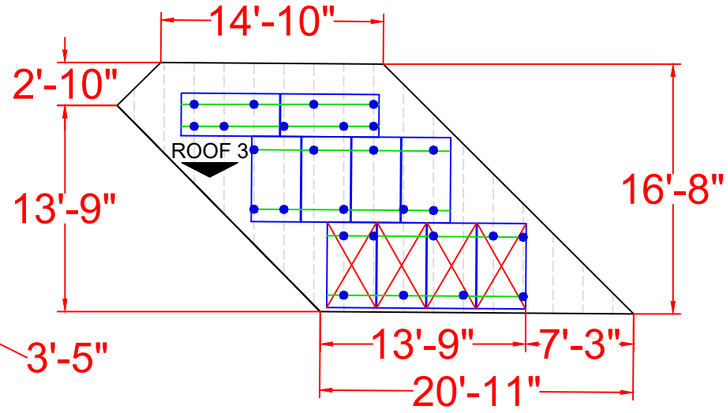
1. CONTRACTOR/INSTALLER TO VERIFY COMPATIBILITY OF ANY BRANDS OR PRODUCTS SUBSTITUTED OR USED AS ALTERNATES WITHIN ANY BRAND-SPECIFIC SYSTEMS. CONTRACTOR SHALL SUPPLY AND PRESENT CERTIFICATES OF COMPATIBILITY TO THE BUILDING OFFICIAL UPON INSPECTION AS NEEDED.
2. REFER TO PV MODULE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RAIL SPACING SPECIFICATIONS

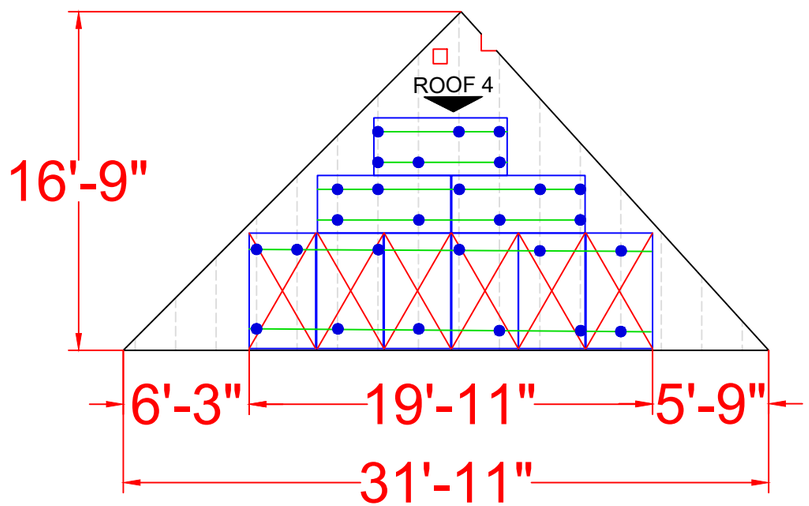
LEGEND

- ATTACHMENT POINTS
- RAIL
- STRUCTURAL MEMBER









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MIDDLETON, WISCONSIN
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MICHAEL HOOL RESIDENCE

502 E WILLOW RD,
FOX POINT, WI 53217
APN #: 0590020000

AHJ: VILLAGE OF FOX POINT
UTILITY: WE ENERGIES

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AC SIZE: 10.500 KW AC
(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

ATTACHMENT PLAN & DETAILS

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-03

MICROINVERTER SPECIFICATIONS	
MANUFACTURER / MODEL #	ENPHASE IQ8PLUS-72-2-US
INPUT POWER RANGE	235W-440W
MIN/MAX START VOLTAGE	22V/60V
NOMINAL AC VOLTAGE	240V
MAX CONT. OUTPUT CURRENT	1.21A
MAX CONT. OUTPUT POWER	290W
MAX MODULES PER STRING	13 (13 MICROINVERTERS)

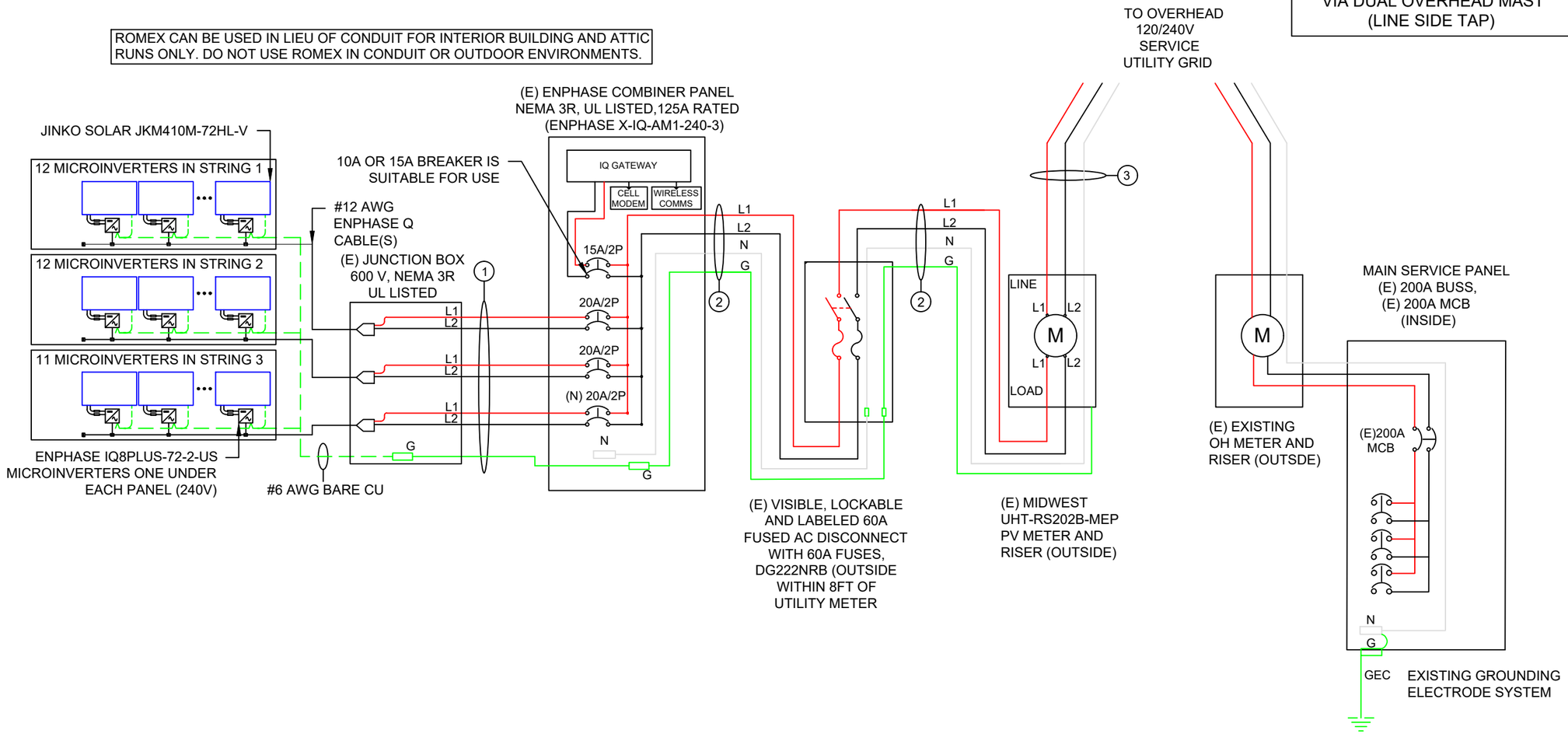
SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	JINKO SOLAR JKM410M-72HL-V
VMP	42.3 V
IMP	9.69 A
VOC	50.4 V
ISC	10.60 A
TEMP. COEFF. VOC	-0.28 %/°C

AMBIENT TEMPERATURE SPECIFICATIONS	
RECORD LOW TEMP	-24°C
AMBIENT TEMP (HIGH TEMP 2% AVG.)	32°C
MINIMUM CONDUIT HEIGHT ABOVE ROOF SURFACE	7/8"

ROMEX CAN BE USED IN LIEU OF CONDUIT FOR INTERIOR BUILDING AND ATTIC RUNS ONLY. DO NOT USE ROMEX IN CONDUIT OR OUTDOOR ENVIRONMENTS.

INTERCONNECTION NOTE

EXISTING INTERCONNECTION
VIA DUAL OVERHEAD MAST
(LINE SIDE TAP)



DESCRIPTION	FORMULA	RESULT
PV OVERCURRENT PROTECTION NEC 690.9(B)	TOTAL INVERTER OUTPUT CURRENT x 1.25 = (35 x 1.21)A x 1.25	52.94A (SELECTED OCPD = 60A)

WIRE ID	EXPECTED WIRE TEMP (°C)	TEMP DERATE (90 °C)	QTY OF CURRENT CARRYING CONDUCTORS	CONDUIT FILL DERATE	MINIMUM CONDUIT SIZE (TBD ON SITE)	WIRE GAUGE & TYPE	CONDUCTOR AMPACITY @ 90°C (A)	CONDUCTOR AMPACITY @ 75°C (A)	REQUIRED CIRCUIT CONDUCTOR AMPACITY (A)	ADJUSTED CONDUCTOR AMPACITY @ 90 °C (A)	NEUTRAL CONDUCTOR SIZE & TYPE	GROUND WIRE SIZE & TYPE
1	32	0.96	6	0.8	3/4"	#10 THWN-2	40	35	18.15	30.72	NONE	#8 THWN-2
2	32	0.96	2	1	3/4"	#6 THWN-2	75	65	52.9375	72	#6 THWN-2	#8 THWN-2
3	32	0.96	2	1	3/4"	#6 THWN-2	75	65	52.9375	72	#6 THWN-2	NONE

CONTRACTOR

SOLENERGY

TRADITIONS LLC DBA SOL ENERGY LLC
7182 HWY 14, UNIT 201
MIDDLETON, WISCONSIN
53562
LIC. NO. - DC-042100451

PROJECT NAME & ADDRESS

MICHAEL HOOL RESIDENCE

502 E WILLOW RD,
FOX POINT, WI 53217
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DC SIZE: 14.350 KW DC-(STC)
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(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

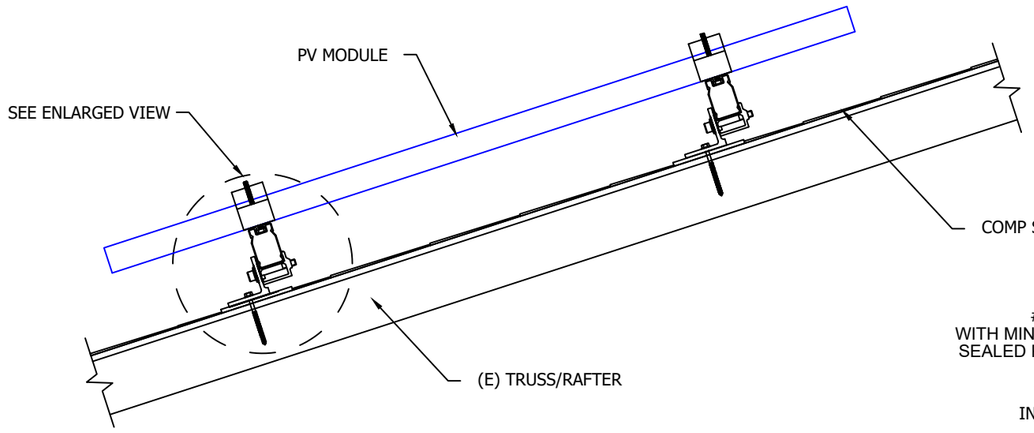
SHEET TITLE

ELECTRICAL DIAGRAM

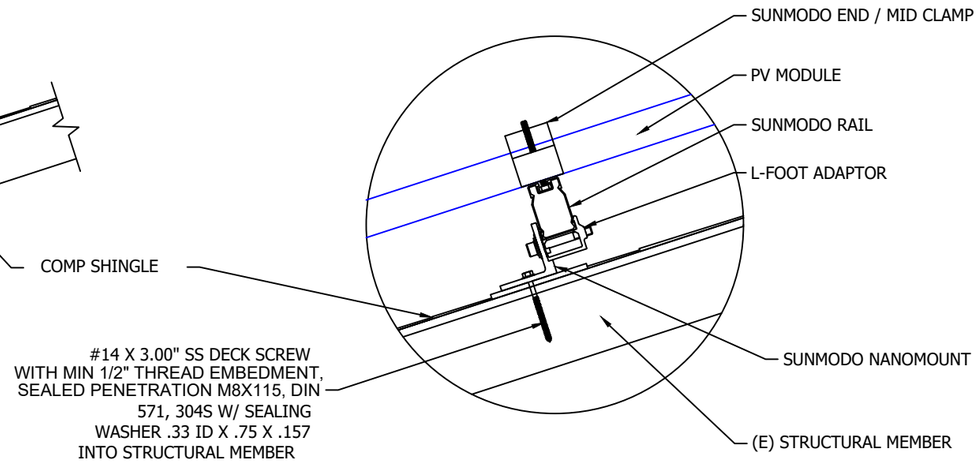
DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-04

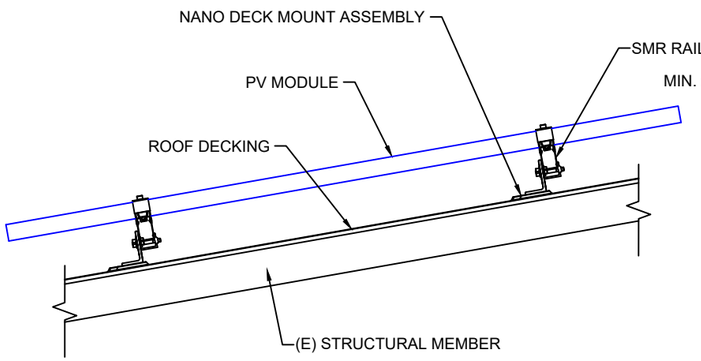


2 PV-03 ATTACHMENT DETAIL
Scale: NTS

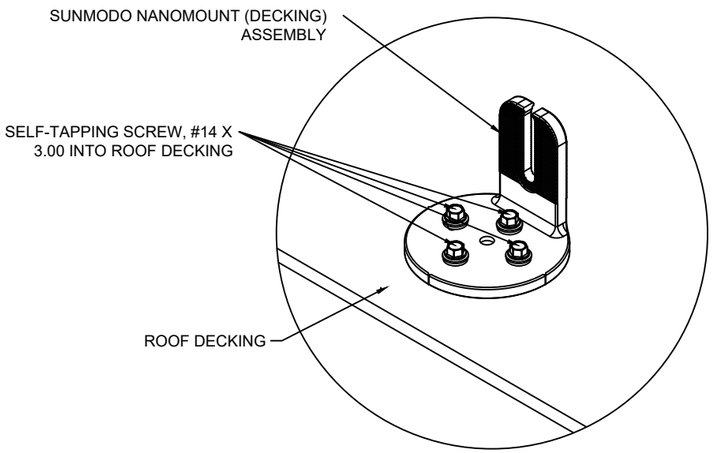


3 PV-03 ENLARGED VIEW
Scale: NTS

NOTE: 6" MAXIMUM DISTANCE FROM ROOF SURFACE TO TOP OF PV MODULES



2 PV-03 ATTACHMENT DETAIL
Scale: NTS



3 PV-03 ENLARGED VIEW
Scale: NTS

CONTRACTOR

SOLENERGY

TRADITIONS LLC DBA SOL ENERGY LLC
7182 HWY 14, UNIT 201
MIDDLETON, WISCONSIN
53562
LIC. NO. - DC-042100451

PROJECT NAME & ADDRESS

MICHAEL HOOL RESIDENCE

502 E WILLOW RD,
FOX POINT, WI 53217
APN #: 0590020000

AHJ: VILLAGE OF FOX POINT
UTILITY: WE ENERGIES

SYSTEM DETAILS

DC SIZE: 14.350 KW DC-(STC)
AC SIZE: 10.500 KW AC
(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

ATTACHMENT DETAIL DIAGRAM

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-03.1

GENERAL NOTES

SITE NOTES

2.1.1 A LADDER WILL BE IN PLACE FOR INSPECTION IN ACCORDANCE WITH OSHA REGULATIONS.
2.1.2 THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
2.1.3 THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
2.1.4 PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED IN ACCORDANCE WITH SECTION NEC 110.26.
2.1.5 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.

EQUIPMENT LOCATIONS

2.2.1 ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS IN ACCORDANCE WITH NEC 110.26.
2.2.2 WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C).
2.2.3 JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES IN ACCORDANCE WITH NEC 690.34.
2.2.4 ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
2.2.5 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL IN ACCORDANCE WITH NEC APPLICABLE CODES.
2.2.6 ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES

2.3.1 RACKING SYSTEM & PV ARRAY WILL BE INSTALLED IN ACCORDANCE WITH THE 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, IN ACCORDANCE WITH RAIL MANUFACTURER'S INSTALLATION PRACTICES.
2.3.2 JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
2.3.3 ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
2.3.4 ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER OR PROFESSIONAL ENGINEERING GUIDANCE.
2.3.5 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES

2.4.1 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.
2.4.2 CONDUCTORS SIZED IN ACCORDANCE WITH THE NEC
2.4.3 AC CONDUCTORS TO BE COLORED OR MARKED PER NEC
2.4.4 LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC

GROUNDING NOTES

2.5.1 GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVICES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
2.5.2 PV EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690.43 AND NEC TABLE 250.122.
2.5.3 METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A).
2.5.4 EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC 690.45 AND INVERTER MANUFACTURER'S INSTALLATION PRACTICES
2.5.5 EACH MODULE WILL BE GROUNDED AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.
2.5.6 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.
2.5.7 GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER PER NEC 250.119
2.5.8 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 IN ACCORDANCE WITH NEC 250, NEC 690.47 AND THE AHJ.
2.5.9 GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.41(B)(1) AND (2) TO REDUCE FIRE HAZARDS

DISCONNECTION AND OVERCURRENT PROTECTION NOTES

2.6.1 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).
2.6.2 DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
2.6.3 PV SYSTEM CIRCUITS INSTALLED ON OR IN HABITABLE BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12
2.6.4 ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240.
2.6.5 INVERTER ON-GRID BRANCHES SHALL BE CONNECTED TO A SINGLE BREAKER OR GROUPED FUSE DISCONNECT(S) IN ACCORDANCE WITH NEC 110.3(B).
2.6.6 IF REQUIRED BY THE AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION IN ACCORDANCE WITH NEC 690.11 AND UL1699B.

INTERCONNECTION NOTES

2.7.1 LOAD SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12.
2.7.2 THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120 PERCENT OF BUSBAR RATING PER NEC 705.12.
2.7.3 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 IN ACCORDANCE WITH NEC 705.12.
2.7.4 AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT PROTECTION DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE MAIN OVERCURRENT PROTECTION DEVICE MAY BE EXCLUDED IN ACCORDANCE WITH NEC 705.12.
2.7.5 FEEDER TAP INTERCONNECTION (LOAD SIDE) IN ACCORDANCE WITH NEC 705.12.
2.7.6 SUPPLY SIDE TAP INTERCONNECTION IN ACCORDANCE WITH TO NEC 705.12 WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42.
2.7.7 BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING PER NEC 705.12.

CONTRACTOR

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PROJECT NAME & ADDRESS

MICHAEL HOOL RESIDENCE

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APN #: 0590020000

AHJ: VILLAGE OF FOX POINT
UTILITY: WE ENERGIES

SYSTEM DETAILS

DC SIZE: 14.350 KW DC-(STC)
AC SIZE: 10.500 KW AC
(35) JINKO SOLAR JKM410M-72HL-V
(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

NOTES

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-05

WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION: COMBINER PANEL, AC DISCONNECT, POINT OF INTERCONNECTION
PER CODE: NEC 690.13(B)

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LABEL LOCATION: COMBINER PANEL(S), MAIN SERVICE DISCONNECT
PER CODE: NEC 110.27(C), OSHA 1910.145(f)(7)

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: DC CONDUIT/RACEWAY/CABLE TRAY
PER CODE: NEC 690.31(G)(3-4)

PHOTOVOLTAIC SYSTEM AC DISCONNECT

RATED AC OUTPUT CURRENT: **42.35** A
NOMINAL OPERATING AC VOLTAGE: 240 V

LABEL LOCATION: POINT OF INTERCONNECTION
PER CODE: NEC 690.54

PV SYSTEM

DISCONNECT

LABEL LOCATION: AC DISCONNECT
PER CODE: NEC 690.13(B)

DO NOT DISCONNECT UNDER LOAD

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 690.15(C) & NEC 690.33(E)(2)

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 705.12(B)(3-4), NEC 690.59

WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR.

LABEL LOCATION: POINT OF INTERCONNECTION, COMBINER PANEL
PER CODE: NEC 705.12(B)(2)(3)(c)

WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

LABEL LOCATION: MAIN SERVICE DISCONNECT, POINT OF INTERCONNECTION
PER CODE: 705.12(B)(2)(3)(b)

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

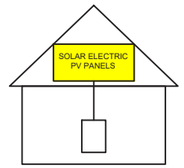
LABEL LOCATION: MAIN SERVICE DISCONNECT, UTILITY METER
PER CODE: NEC 690.13(B)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION: RSD INITIATION DEVICE, AC DISCONNECT
PER CODE: 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 THE ARRAY



LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 690.56(C)(1)(a)

CAUTION

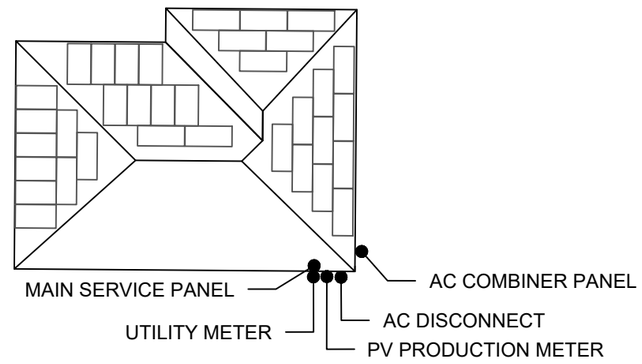
PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 690.13(F), NEC 705.12(B)(3-4), NEC 690.59

CAUTION

MULTIPLE SOURCES OF POWER.
POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:

ADDRESS: 502 E WILLOW RD, FOX POINT, WI 53217



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(35) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

DRAWN DATE	11/19/2024
DRAWN BY	VHN

SHEET NUMBER

PV-06

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

www.jinkosolar.com

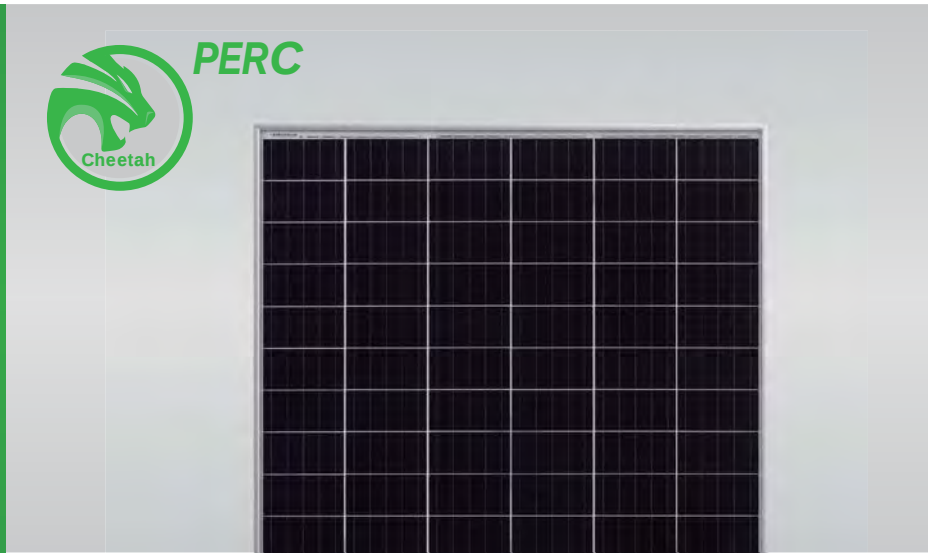
Building Your Trust in Solar

Cheetah HC 72M
390-410 Watt

MONO PERC HALF CELL MODULE

Positive power tolerance of 0~+3%

- Half Cell
- Mono PERC 72 Cell



KEY FEATURES

5 Busbar Solar Cell
5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.

High Efficiency
Higher module conversion efficiency (up to 20.38%) benefit from half cell structure (low resistance characteristic).

PID Resistance
Excellent Anti-PID performance guarantee limited power degradation for mass production.

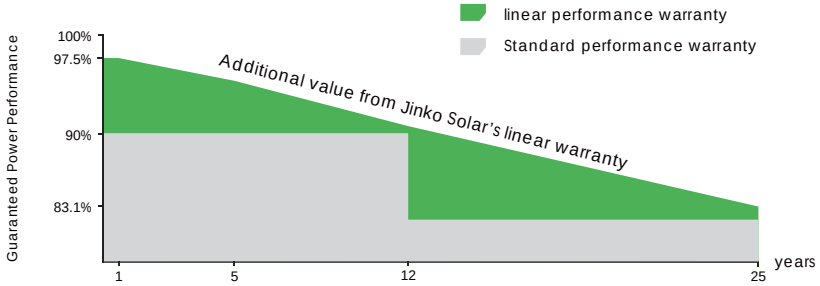
Low-light Performance
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

Severe Weather Resilience
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance certified by TUV NORD.

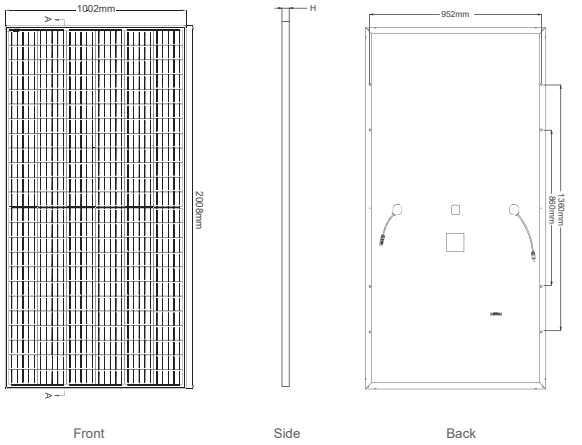
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty

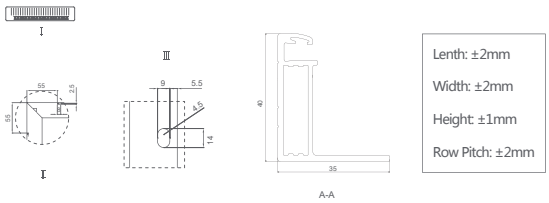


- ISO9001:2015, ISO14001:2015, OHSAS18001 certified factory
- IEC61215, IEC61730, UL1703 certified product

Engineering Drawings



Front Side Back



Lenth: ±2mm
Width: ±2mm
Height: ±1mm
Row Pitch: ±2mm

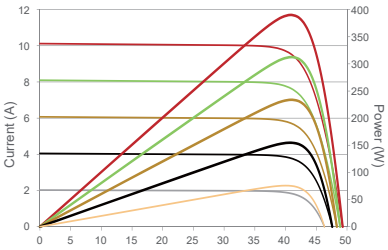
Packaging Configuration

(Two pallets =One stack)

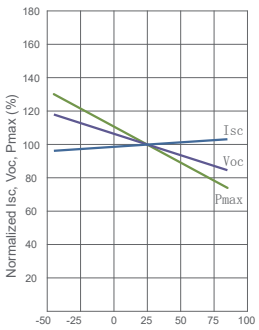
27pcs/pallet , 54pcs/stack, 594pcs/40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (390W)



Temperature Dependence of Isc,Voc,Pmax



Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No.of Half-cells	144 (6×24)
Dimensions	2008×1002×40mm (79.06×39.45×1.57 inch)
Weight	22.5 kg (49.6 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1x4.0mm², (+) 290mm, (-) 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM390M-72H JKM390M-72H-V		JKM395M-72H JKM395M-72H-V		JKM400M-72H JKM400M-72H-V		JKM405M-72H JKM405M-72H-V		JKM410M-72H JKM410M-72H-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	390Wp	294Wp	395Wp	298Wp	400Wp	302Wp	405Wp	306Wp	410Wp	310Wp
Maximum Power Voltage (Vmp)	41.1V	39.1V	41.4V	39.3V	41.7V	39.6V	42.0V	39.8V	42.3V	40.0V
Maximum Power Current (Imp)	9.49A	7.54A	9.55A	7.60A	9.60A	7.66A	9.65A	7.72A	9.69A	7.76A
Open-circuit Voltage (Voc)	49.3V	48.0V	49.5V	48.2V	49.8V	48.5V	50.1V	48.7V	50.4V	48.9V
Short-circuit Current (Isc)	10.12A	8.02A	10.23A	8.09A	10.36A	8.16A	10.48A	8.22A	10.60A	8.26A
Module Efficiency STC (%)	19.38%		19.63%		19.88%		20.13%		20.38%	
Operating Temperature (℃)	-40℃~+85℃									
Maximum System Voltage	1000/1500VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.35%/℃									
Temperature Coefficients of Voc	-0.29%/℃									
Temperature Coefficients of Isc	0.048%/℃									
Nominal Operating Cell Temperature (NOCT)	45±2℃									

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

ENPHASE

DATA SHEET

IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.

Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.

Enphase 25 year limited warranty

IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.

Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.

UL CERTIFIED SAFETY

IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations, when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Compliant with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB)

NOTE:

- IQ8 Microinverters cannot be mixed with previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same system.
- IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative according to the IEEE 1547 interconnection standard. An IQ Gateway is required to make these changes during installation.

*Meets UL 1741 only when installed with IQ System Controller 2 or 3.
**IQ8 and IQ8+ support split-phase, 240 V installations only.

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Commonly used module pairings[1]	W	235–350	235–440
Module compatibility	—	To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I_{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator.	
MPPT voltage range	V	27–37	27–45
Operating range	V	16–48	16–58
Minimum/Maximum start voltage	V	22/48	22/58
Maximum input DC voltage	V	50	60
Maximum continuous input DC current	A	10	12
Maximum input DC short-circuit current	A	25	
Maximum module (I_{sc})	A	20	
Overvoltage class DC port	—	II	
DC port backfeed current	mA	0	
PV array configuration	—	Ungrounded array; no additional DC side protection required; AC side protection requires maximum 20 A per branch circuit.	

OUTPUT DATA (AC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Maximum continuous output power	VA	240	290
Nominal grid voltage (L-L)	V	240, split-phase (L-L), 180°	
Minimum and Maximum grid voltage[2]	V	211-264	
Maximum continuous output current	A	1.0	1.21
Nominal frequency	Hz	60	
Extended frequency range	Hz	47–68	
AC short-circuit fault current over three cycles	Arms	2	
Maximum units per 20 A (L-L) branch circuit[3]	—	16	13
Total harmonic distortion	%	<5	
Overvoltage class AC port	—	III	
AC port backfeed current	mA	30	
Power factor setting	—	1.0	
Grid-tied power factor (adjustable)	—	0.85 leading ... 0.85 lagging	
Peak efficiency	%	97.7	
CEC weighted efficiency	%	97	
Nighttime power consumption	mW	23	25

MECHANICAL DATA	
Ambient temperature range	-40°C to 60°C (-40°F to 140°F)
Relative humidity range	4% to 100% (condensing)
DC connector type	MC4
Dimensions (H × W × D)	212 mm (8.3 in) × 175 mm (6.9 in) × 30.2 mm (1.2 in)
Weight	1.08 kg (2.38 lbs)
Cooling	Natural convection–no fans
Approved for wet locations	Yes
Pollution degree	PD3
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure
Environmental category/UV exposure rating	NEMA Type 6/Outdoor

(1) No enforced DC/AC ratio.
(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.

COMPLIANCE	
Certifications	CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547:2018 (UL 1741-SB), 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 shutdown equipment and conforms with NEC 2014, NEC 2017, NEC 2020, and NEC 2023 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV Systems, for AC and DC conductors, when installed according to the manufacturer's instructions.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00207-3.0	February 2024	Updated the information about IEEE 1547 interconnection standard requirements.
DSH-00207-2.0	October 2023	Included NEC 2023 specification in the “Compliance” section.
DSH-00207-1.0	September 2023	Updated module compatibility specification.

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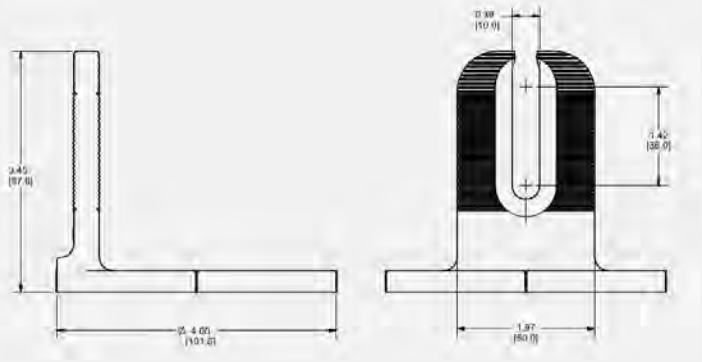
Cut Sheet

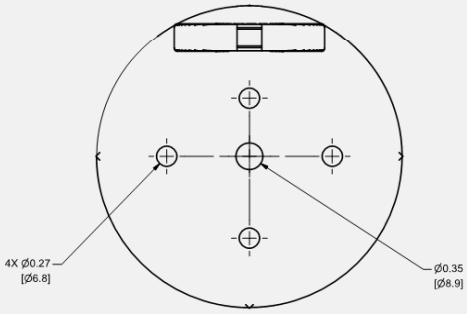
NanoMount

Part Number	Description
K50058-BK1	NanoMount • NanoMount • USWR Gasket

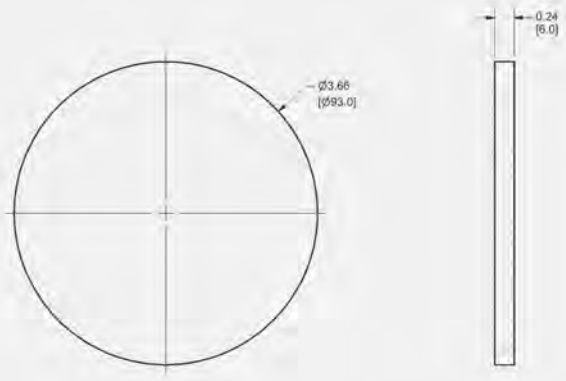
NanoMount



Material: Aluminum
Finish: Black Powder Coating



NanoMount Gasket



Material: USWR Gasket with Adhesive

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Cut Sheet

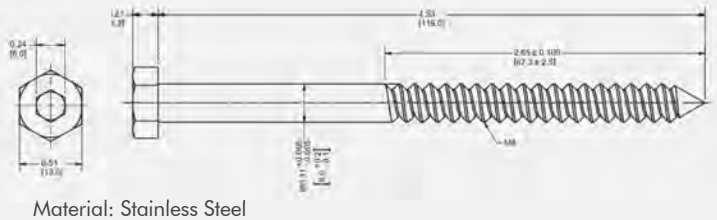
NanoMount Lag Bolt

NanoMount Decking Screw

Part Number	Description
K50049-BK1	Lag Bolt Assembly • Hex Lag Bolt M8X115, DIN 571, 304S • Sealing Washer .33 ID X .75 X .157
K50055-BK1	Decking Screw Assembly • Self-Tapping Screw, #14 X 3.00 • Sealing Washer .26ID X .50X .125

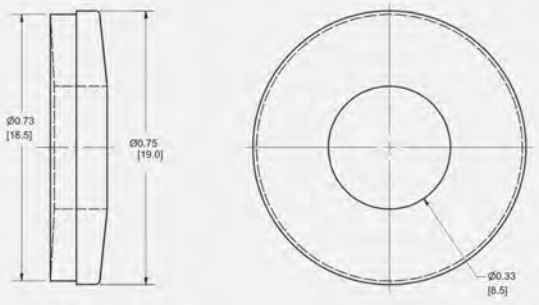
Lag Bolt Assembly

1. Hex Lag Bolt M8X115, DIN 571, 304



Material: Stainless Steel
Finish: Clear

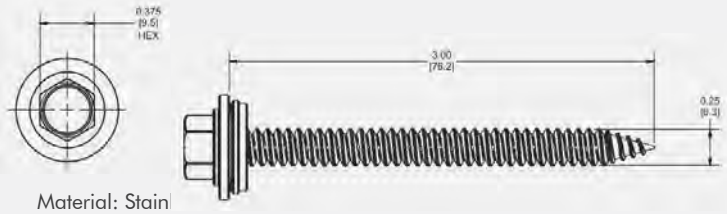
2 Sealing Washer .33ID X.75X.157



Material: EPDM + Stainless Steel

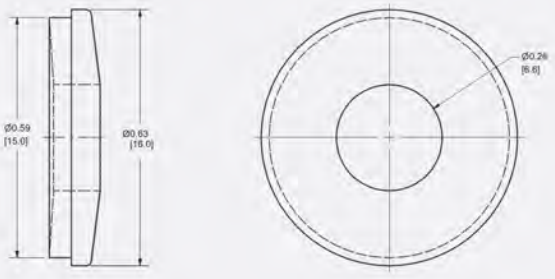
Decking Screw Assembly

1. Self-Tapping Screw, #14 X 3.00



Material: Stain
Finish: Clear

2. Sealing Washer .26ID X .50X .125



Material: EPDM + Stainless Steel

Dimensions shown are inches (and millimeters)

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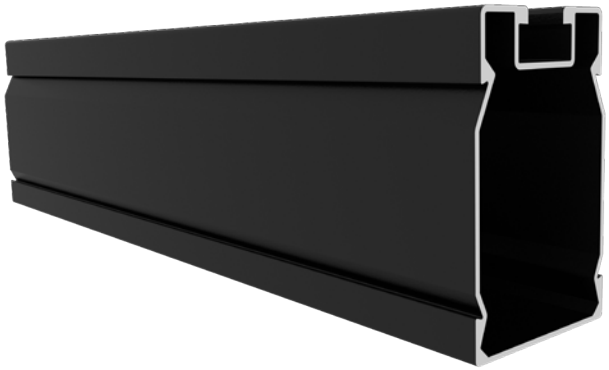
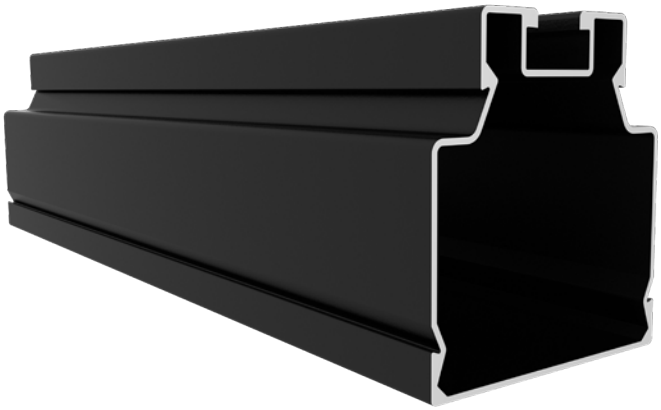
Cut Sheet

SMR100 Rail

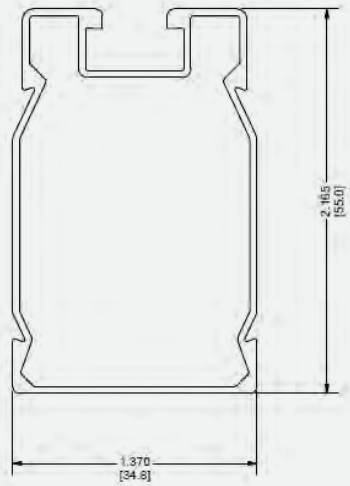


SMR200 Rail



Part Number	Description
A20422-168-BK	SMR100 Rail, Black Anodized, 168"
A20431-168-BK	SMR200 Rail, Black Anodized, 168"
A20440-BK1	SMR100 Rail End Cap, Black
A20440-BK2	SMR200 Rail End Cap, Black

SMR100 Rail



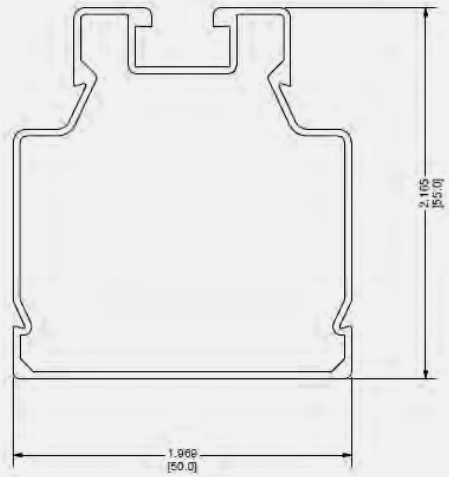
Mechanical Properties

Material: 6005-T5 Aluminum
Weight: 0.4126 lbs/ft (0.614 kg/m)
Ultimate Tensile Strength: 37.7 ksi (260 MPa)
Yield Strength: 34.8 ksi (240 MPa)

Section Properties

Sx: 0.196 in^3 (3.21 cm^3)
Sy: 0.146 in^3 (2.39 cm^3)
Area (X-section): 0.352 in^2 (2.27 cm^2)

SMR200 Rail



Mechanical Properties

Material: 6005-T5 Aluminum
Weight: 0.453 lbs/ft (0.626 kg/m)
Ultimate Tensile Strength: 37.7 ksi (260 MPa)
Yield Strength: 34.8 ksi (240 MPa)

Section Properties

Sx: 0.223 in^3 (3.74 cm^3)
Sy: 0.189 in^3 (3.10 cm^3)
Area (X-section): 0.388 in^2 (1.22 cm^2)

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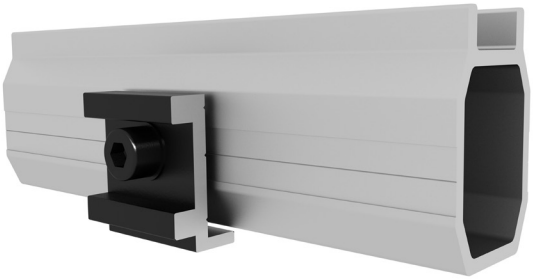
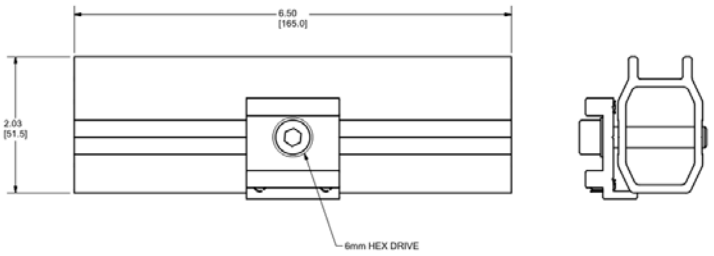
Cut Sheet

SMR Rail Splices



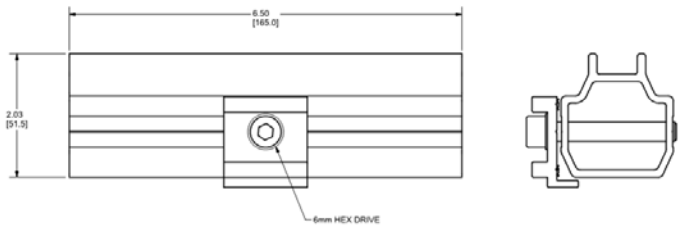
SMR100 Bonding Rail Splice

Material: Aluminum

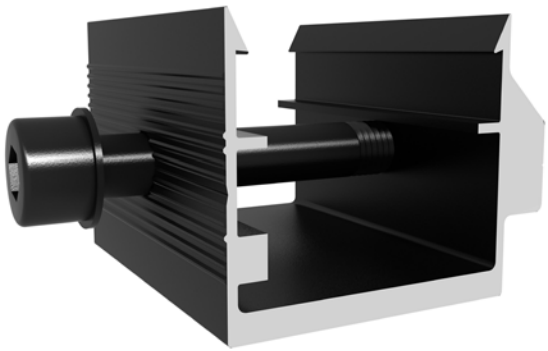


SMR200 Bonding Rail Splice

Material: Aluminum

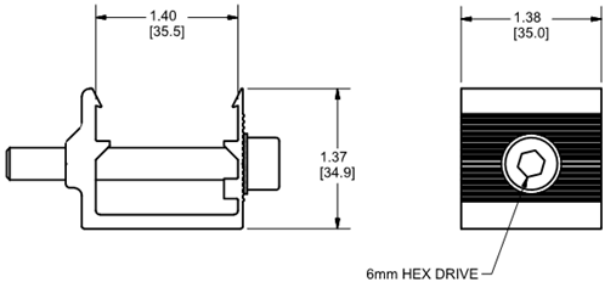


L-Foot Adaptors



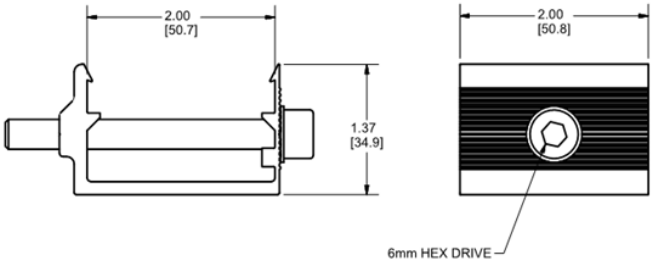
SMR 100 L-Foot Adaptor

Material: Aluminum



SMR 200 L-Foot Adaptor

Material: Aluminum



Part Number	Description
K10421-BK1	SMR100 Structural Bonding Rail Splice
K10427-BK1	SMR200 Structural Bonding Rail Splice
K10433-BK1	SMR100 L-Foot Adaptor
K10434-BK1	SMR200 L-Foot Adaptor

Dimensions shown are inches (and millimeters)

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Cut Sheet

Pop-On Mid Clamp

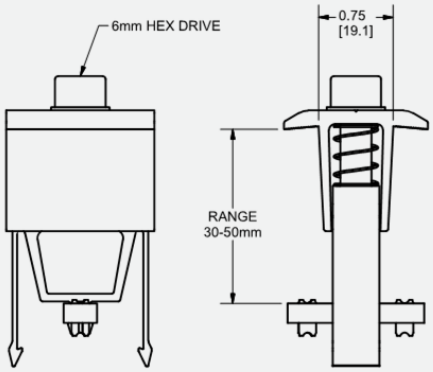
Pop-On End Clamp

Shared Rail Mid/End Clamp

Part Number	Description
K10417-BK1	Pop-On Bonding Mid Clamp, Black
K10418-BK1	Pop-On End Clamp, Black
K10419-BK1	Shared Rail Bonding Mid Clamp, Black
K10420-BK1	Shared Rail End Clamp, Black

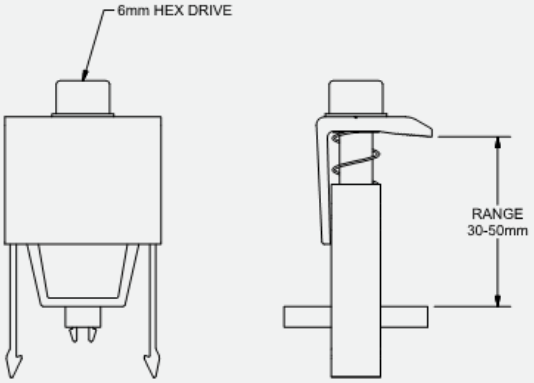
Pop-On Bonding Mid Clamp

Material: Aluminum



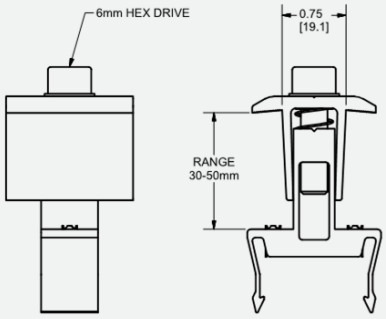
Pop-On End Clamp

Material: Aluminum



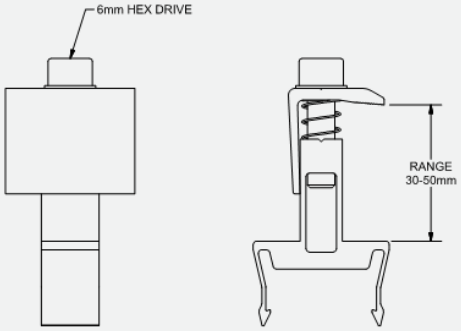
Shared Rail Bonding Mid Clamp

Material: Aluminum



Shared Rail End Clamp

Material: Aluminum



Dimensions shown are inches (and millimeters)

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Cut Sheet

SunDock Rail-Free Accessories

Parts Description: Top Mount Cable Clip

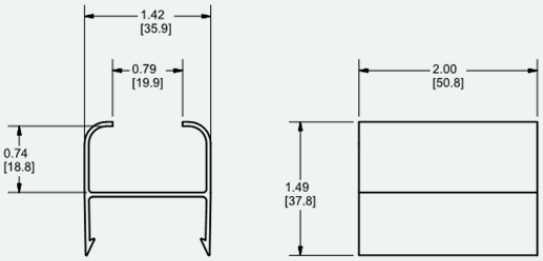
Parts Description: Side Mount Cable Clip

Parts Description: Microinverter Mount

Part Number	Description
A20408-001	Top Mount Cable Clip
A20427-BK1	Side Mount Cable Clip (SMR100)
A20434-BK1	Side Mount Cable Clip (SMR200)
K50052-001	Microinverter Mount Kit

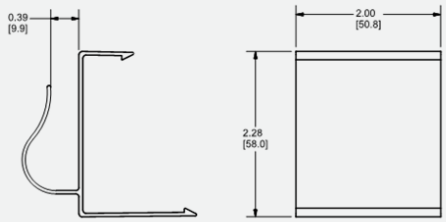
Top Mount Cable Clip

Material: Aluminum



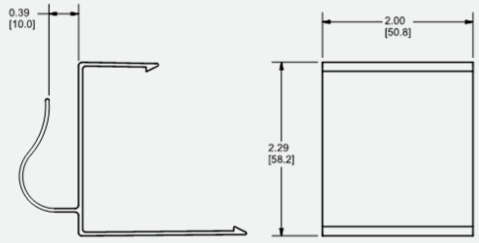
Side Mount Cable Clip (SMR100)

Material: Aluminum



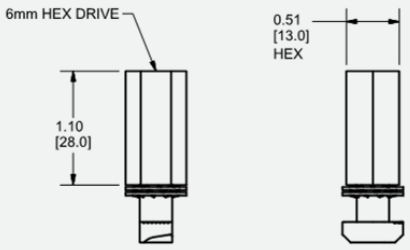
Side Mount Cable Clip (SMR200)

Material: Aluminum



Microinverter Mount

Material: Aluminum



D10225-V001

Dimensions shown are inches (and millimeters)

Details are subject to change without notice

Cory Besch

SolEnergy

12/4/2024 | 13 Photos

Michael Hool - 502 E Willow Rd

Pre-Panel Installation

Pre-Panel Installation

Pre-Panel Installation

Pre-Panel Installation

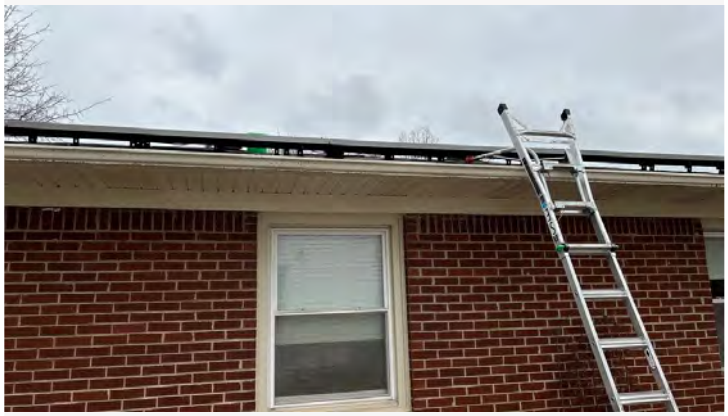
Post-Panel Installation

Post-Panel Installation

Post-Panel Installation

Post-Panel Installation

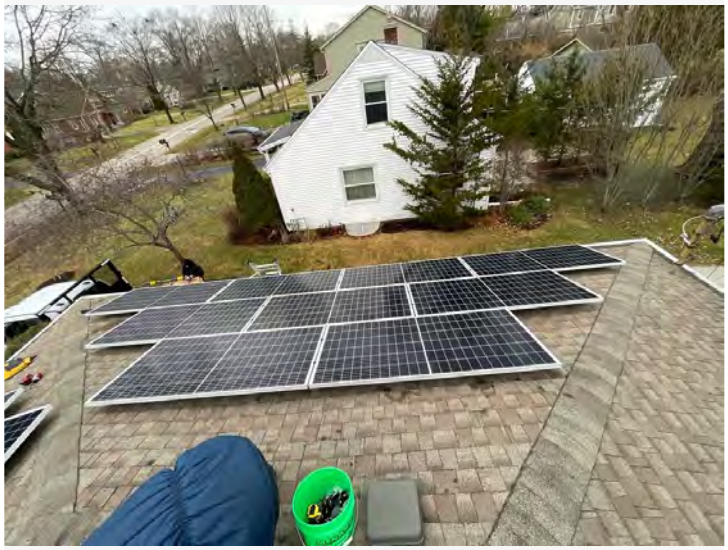
Post-Panel Installation



Post-Panel Installation

Post-Panel Installation

Post-Panel Installation



Post-Panel Installation