

TOWN OF JEROME

Post Office Box 335, Jerome, Arizona 86331 (928) 634-7943

Zoning Administrator Analysis Design Review Board Tuesday, June 27, 2023

Item:

Location: 723 Clark Street

Applicant/Owner: Jacqueline & Richard Sorrells

Zone: R1-5

APN: 401-06-026N

Prepared by: Will Blodgett, Zoning Administrator

Recommendation: Approval

Project Background and Summary: Installation of a photovoltaic (Solar) system on the house at 723 Clark Street, known locally as the "Eagles Nest".

Building Background and History: Yavapai County lists this home as being constructed in 1950. The 2007 Historic Properties survey does not list a date of initial construction, so at this time the only construction date listed is 1950. The 2007 survey does list this home as contributing to the NHL (National Historic Landmark) designation, and the survey is reproduced at the end of this review.

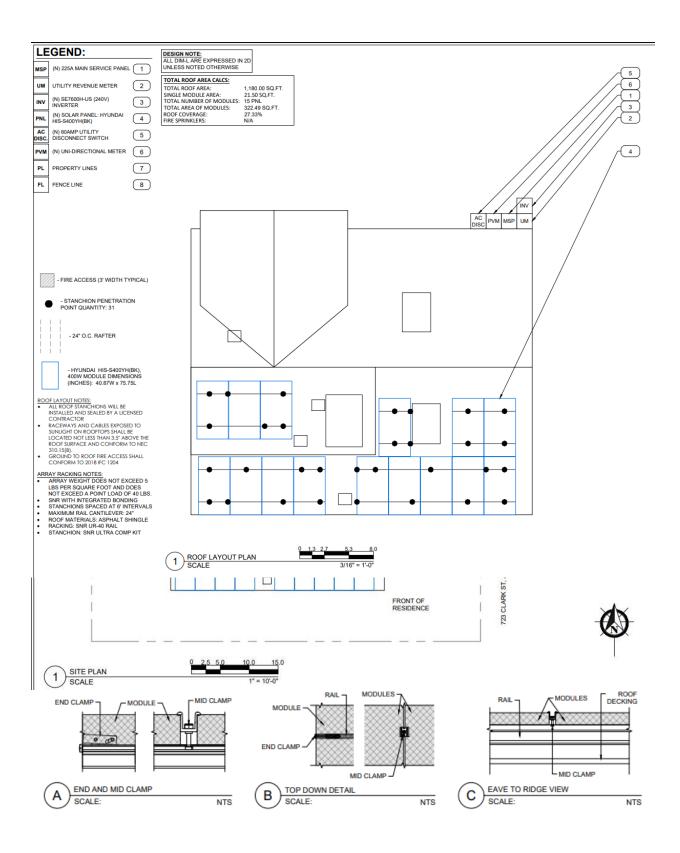
Property Standards: The purpose of design review is to enable the Design Review Board t review the exterior design of proposed new buildings and structures, proposed alterations of buildings and structures, proposed signs, and proposed demolition of structures within the Historic Overlay District. Section 304.B.2 requires exterior modifications to a building or structure to undergo review by the Design Review Board.

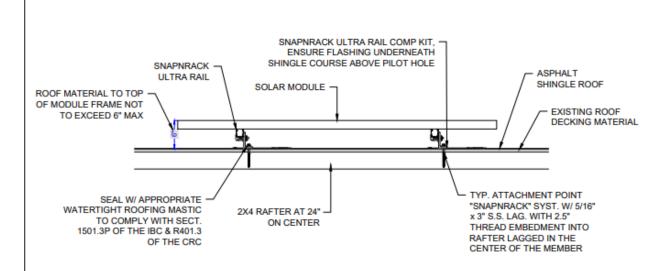
In 2015 the Town of Jerome adopted a set of Solar Energy System Design Guidelines that mirror the best practices established by the Secretary of the Interior's Standards. To this point there are two (2) primary design considerations,

- 1- (Standard 2) "The Historic Character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property should be avoided."
- 2- (Standard 9) "New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and be compatible with massing, size, scale and architectural features to protect the Historic integrity of the property and it's environment."

Review Criteria: Section 304.H.2 lists the review criteria for alterations, additions, or reconstructions to existing buildings or structures. Subsection b, "Roofs" states that; "Original roof shape, design, and material shall be preserved and retained where feasible. Where contemporary roofing material is used, it should be as near as possible to the appearance of the original roofing material."

Response: The proposed project adheres to all of the best industry practices available for this type of installation. The project will not require the removal of any historic defining features of the home and due to the unique location of the home, most if not all, of the photovoltaics will be unseen from the surrounding properties.



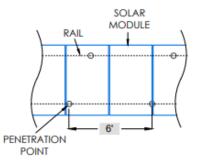


ROOF SUPPORT SECTIONAL DETAILS SCALE

NTS

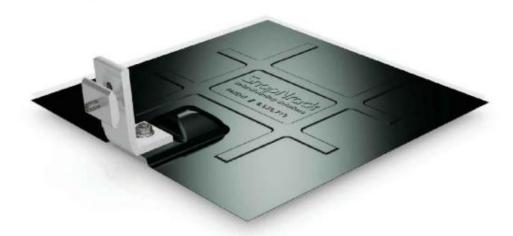
- RACKING INFORMATION (1)

 SNR RACKING WITH INTEGRATED BONDING
- SNR ULTRA COMP KIT
- MAX. CANTILEVER = 24" PER MANUF.
- RAFTER SPACING = 24" O.C.
- PENETRATION POINTS = 6' SPACING STAGGERED





Flashed L Foot

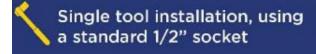


Reliable & Weatherproof Roof Attachment





Preassembled, snap-in hardware reduces installation time





HYUNDAI SOLAR MODULE



Dual Black Max

HIS-S385YH(BK) HIS-S390YH(BK) HIS-S396YH(BK)
HIS-S400YH(BK) HIS-S410YH(BK)



All Black Module For Steek Design Flack Medind T-Back sheet)

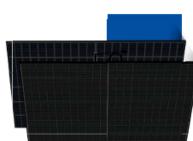
Ut. 1,500V EC 1,500V swee BOS Costs

More Power Generation In Low Light

Backlining







Maximized Power Generation

Increased total power output through capturing light from both the front and back of Bifstels loser modules. Back side power gain up to 25% of the front output depending on PV system design.



Both UDILight Induced Degradation) and PID(Potential Induced Degradation) are significantly reduced to ensure higher actual yield during lifetime.

- Anti-UD / PID



Mechanical Strength

UL / VDE Test Labs

Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

Tempered glass and reinforced frame design with stand rigorous wealther conditions such as heavy andw(5,400Pa) and strong wind(4,000Pa).

Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty.

Module Diagram Jaterral

About Hyundai Energy Solutions

Established in 1972. Hyunda Haray Industries Group is one of the most trusted names in the heavy industries sector and is a fortune \$00 company. As a global leader and innovatior, Hyunda Heavy Industries is committed to building a fuzure growth engine by developing and investing heavy in the field of revenable energy.

Materials and workmanthip

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Hyundal's Warranty Provisions

As a core energy business entity of HH, Hyundai Energy Solutions has high-quality PV products to more than 3,000 customers worldwide. 25-Year Performance Warranty
 Firital year: 198.0%
 Unear warranty after second year
 with 0.54% or must departation,
 85.0% is guaranteed up to 25 years.

Electrical Characteristics

Reminst Output (Prepp)	*	388	390	395	400	405	410
Open Circuit Valtage (Vtc)	>	44.5	44.8	45.0	45.3	45.6	45.9
Short Circuit Current (9c)	A	11.04	11.11	11.18	11.25	11.33	11.40
Voltage at Pinax (Vmpp)	>	37.1	37.3	37.5	27.7	87.9	38.1
Current at Preax (htpp)	4	10.40	10.47	10.54	10.61	10.69	10.76
Module Efficiency	ø	19.3	19.5	19.8	20.0	20.3	20.5
Cell Type	٠			Mono orystal	orystalline, 9busbar		
Maximum System Valtage	>			1,5	000		
Temperature Coefficient of Press	ž			-03	347		
Temperature Coefficient of Vac	ž			-07	-0.268		
Temperature Goofficient of Iso	ž			+0	092		
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Additional Power Gain from rear side							410
*6	3	399	404	410	415	425	431
15%	3	437	443	449	454	466	472
	3	475	482	488	494	909	513

Mechanical Characteristics

Dimensions	1,038 mm (M) x 1,924 mm (L) x 35 mm(H)
Weight	Approx. 21.1 kg
Solar Cells	132 half out bifacial cells (2 parallel x 66 half cells in series)
Output Cables	Cable : 1,200mm / 4mm² Cannector : MC4 genuine connector
Junction Box	IPB8, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : 3.2mm, High Transmission, AR Coatbel Tempered Glass Encapsulant : EW I Back Sheet : Black Meshed Transparent Backsheet
Frame	Anodized aluminum alloy type 6063

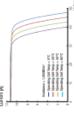
-40°C ~ +85°C DC 1,500V 45.5°C ± 2

Medimum System Voltage

Only qualified personnel should install or perform marketismor.
 Be aware of damperous high DC veltage.
 Por ond damperous high may surface of the module.
 Do not hample or install modulals when they

Installation Safety Guide

FV Curves







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HYUNDAI ENERGY SOLUTIONS



Printed Date: 03QSQSma0

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2007 Town of Jerome Arizona HISTORIC PROPERTIES SUMMARY SURVEY

PROPERTY	IDENTIFICATIO	N .	1411	
For properties	identified through s	survey: Site No. 03	4 Survey Area	
[편집하다] 아니아 아이 아니다 (1000) [1]		t reflects the property's his	storic importance.)	
City or Town	Jerome	☐ vicinity	County Yavapai	Tax Parcel No. 401-08-15B
Township 16	Range 2E Lot(s)	Section 23 Plat (Addition)	Quarters	Acreage Year of plat (addition)
UTM reference		Easting	Northing	, tal or plan (carrierly
USGS 7.5' qua	drangle map:		**************************************	
ARCHITECT			not determined	known Source
BUILDER			not determined	known Source
CONSTRUCT	ION DATE	.0	known a estimated	
STRUCTURA	L CONDITION			Mar Marson
	A general control of the second	erious problems apparem)	on	, , , , , , , , , , , , , , , , , , , ,
☐ Fair (som	e problems appare	ns) Describe:	. n.	war Collage o
•			10 80 m	(m) 100
Poor (ma	jor problems; immi	nent threat) Describe:	the la c	200
☐ Ruin/Uni	nhabitable			41
	TONS the property has been g with the original us			
Sources				

PHOTO INFORMATION

Date of photo 2007

View Direction (looking towards)

South West

Negative No. 723 Clark Street





2007 Town of Jerome Arizona

HISTORIC PROPERTIES SUMMARY SURVEY

A. HISTORIC EVENTS/TRI	ENDS. Describe any historic eve	nts/trends associated with	the property.	
B. PERSONS. List and descr	ibe persons with an important ass	ociation with the building		
C. ARCHITECTURE. Style	Vernacular			no style
Stories 3 w/, Attic	Basement Roof form S	ide Gabled		
Describe other character-defin dence.	ning features of its massing, size, a	nd scale Three Flights	of Stairs leading from	m SR 89A to Resi-
below lists some important asp	Register, a property must have int ects of Integrity. Fill in the blanks	with as detailed a descrip		
LOCATION. Original	Site Moved: date	original site		
DESIGN. Describe alteration	s from the original design, includi	ng dates,		
MATERIALS. Describe the n	materials used in the following ele	ments of the property.		
Walls (structure) Wood		Walls (sheathing)	Rough Sawn Plank	
Windows Alum	Describe wind	ow structure Casemen	t. Fixed at attic gable	end
Roof Comp Shingles			dation Conc. Wood T	imbers
SETTING. Describe the natur	ral and/or built environment arous	nd the property. Perched	on Steep Hill Side	
How has the environment chan	ged since the property was constru	ucted?		
WORKMANSHIP. Describe	the distinctive elements, if any, of	craftsmanship or method	of construction.	
	ATUS (if listed, check the appropriate Contributor Noncontributor Determined elig		nal Register (date	Historic District
Property is is is no	ot eligible as a contributor to a lis ded to evaluate.			ultant) .
FORM COMPLETED BY Name and Affiliation: Mailing Address:	Gregory C. Hunt D.A.P.A. Studio P.O. Box 8 Cottonwood, A	AZ. 86326	Date: Phone #:	2007 928-646-9205