

**SEDONA HISTORIC PRESERVATION
DESIGNATION of LANDMARK
APPLICATION**

City of Sedona • 102 Roadrunner Drive • Sedona, AZ 86336
928-282-1154 • 928-204-7124 (fax)

HL No. HPC-00002
Date Received _____
Fee Amt. _____
Initials _____

1. Applicant Information:

Name ELLEN BETTS AND LIN ENNIS, JOINT TENANTS Owner? Yes No
Mailing Address 56 LYNX DRIVE, SEDONA, AZ 86336
Phone No. 928-300-3077 Fax No. _____ E-Mail lin@linennis.com
Contact (if other than above) 928-963-6394 dr_ebetts@yahoo.com

2. Identification of Proposed Landmark:

Historic Name THE KIVA HOUSE
Location SEDONA, AZ
Name of Owner ELLEN BETTS AND LIN ENNIS
Address 56 LYNX DRIVE, SEDONA, AZ 86336
Phone No. (if other than above) _____
Assessor's Parcel Number _____

Please check desired historic designation:

- Landmark:
 - Structure(s), identify SINGLE FAMILY HOME
 - Property
 - Partial Property, describe _____
 - Other, explain _____

- District

3. Historic Information:

Historic Use(s) SINGLE FAMILY HOME

Present Use(s) SINGLE FAMILY HOME

Building Type _____ Construction Date(s) 1977-1978

Architect/builder LYNN DAVID GROOMS ? ANSHEN AND ALLEN ?

Integrity _____

Condition: Excellent Good Fair Poor Condemned

Explain if necessary _____

Desired Eligibility Status: Local State National ?

4. Description of Property (attach a separate sheet if necessary):

Site -

Size of Parcel 0.3 ACRES

Site Character _____

Building -

Number of Stories _____ Total Floor Area 2092

Foundation Material CEMENT SLAB

Structural Material(s) WOOD, STUCCO

Exterior Wall Material(s) STUCCO WITH WOOD VIGAS

Applied Ornamentation COPPER AWNINGS ; CUSTOM FRONT DOOR SURROUND

Roof Type FLAT Roof Material ELASTOMERIC

Eaves Treatment _____

Windows WOOD FRAME, DOUBLE GLASS, CRANK HARDWARE

Entry CUSTOM FRONT DOOR FEATURE

Porch(es) _____

Storefront _____

Notable Interior SEE ATTACHED

Outbuildings PERGOLA

Alterations ROOF OF THE POTTING SHED HAS BEEN RAISED TO SQUARE OFF THE SHED
PARTIAL BUILDOUT OF CRAWLSPACE

5. Areas of Historic Significance:

Commerce Community Planning Economics Exploration/settlement
Governmental Military Religion Science Agriculture Tourism
Transportation Arts & Culture Other (explain) _____

6. Description of Historical Significance: (attach separate sheets if necessary) SEE ATTACHED

Prominent Occupant(s) _____

Historic Association _____

Relationship to Community Development _____

Cultural Affiliation _____

Architecture FIRST Pueblo style home built in Sedona

District/Streetscape Contribution _____

Context: Isolated/rural Residential street Commercial Central Square

CBD Other (explain) _____

7. Additional Comments: (attach separate sheet if necessary)

Applicant Signature Ellen A. Betts Lin Ennie date 3/22/2023

Approved by Owner/Agent _____ date _____

Approved by HPC Chairman _____ date _____

THE KIVA HOUSE

56 Lynx Drive, Sedona AZ is a 2092 square foot two bedroom, two bath single family home on .3 acres. It was commissioned by Dr. Victor Mueller and constructed by architect and builder Lynn David Grooms. Construction was completed in 1978 and became known in the community as "The Kiva House" due to the round tower-like structure in the front of the home.

The Kiva House is a Frank Lloyd Wright inspired pueblo style home and was the first of its kind built in Sedona. As such, it has a multi-tiered, flat roof exterior with an attached carport. The home's stucco exterior features vigas that are an extension of the interior beams. Copper awnings grace three exterior doors. The home's unique design was recognized in a special edition of Arizona Highways Magazine titled *2000 Years of Arizona Architecture*, May 1985, page 19. The home was also featured on the back cover of *Sedona Life* magazine, Winter 1978. It is described there as having been built to blend in with the Sedona red rocks, with hand-finished redwood interior, stained glass windows, relaxing Kiva room, along with many other features inspired by the artist.

Dr. Mueller's wife reports that the windows of the home were the primary feature around which the structure was built. The main living spaces face the East and the window placements draw the eye up to the Chapel of the Holy Cross at the base of Twin Buttes and out to the surrounding Chapel vistas. The "relaxing Kiva room" has since been finished with window treatments, a stone altar and wrap-around stone benches and custom painted walls and ceiling as an homage to the Hopi Indian culture. The stonework bench continues uninterrupted through a large case opening into the connecting master bedroom and terminates with a small wood stove and red-rock wall surround. One window of the master suite faces Cathedral rock and there is a small walled patio that provides a view of Bell Rock and Lee Mountain.

Frank Lloyd Wright inspired features are evident throughout the house. The custom-made front door surround welcomes visitors into a long, narrow, curved hallway opening into a step-down great room. The core of the home is a semi-circular redwood wall with beams radiating out across the ceiling of the great room and front hallway in a sunlight pattern. The core supports an upstairs guest suite with a clerestory. The great room has a large wood stove mounted atop a red rock foundation and wall surround that simulates the surrounding Twin Buttes. A large picture window was placed to provide a direct view of The Chapel of the Holy Cross and its neighboring geological features know as The Nuns. The kitchen connects to the great room and contains a custom designed wood island to match the walls of the hallway and great room curvature. The floors of most rooms in the house are slate consistent with the other organic materials that make up the interior. As noted above, stained glass windows adorn the Kiva room and one is also featured in the staircase leading to the guest suite. The spiritual culture of Sedona identifies the home as triangulated by three geological icons, two of which are considered energy vortexes.

Sedona Historic Property Inventory Form

PROPERTY INFORMATION

Address:	56 LYNX DRIVE	Survey Site #:	
Historic Name:	KIVA HOUSE	Zoning:	
APN #:	401-49-002	Acres:	0.3 ACRE
County:	COCONINO	Subdivision:	CHAPEL BELLS EST. 2
Owner name:	LIN ENNIS, ELLEN BETTS	Owner Address:	56 LYNX DR.

BUILDING INFORMATION

Construction Date:	1978	Estimated:		Known:		Source:	COCONINO COUNTY ASSESSOR
Architect:	ANSHEN & ALLEN	Not determined:		Known:		Source:	
Builder:	LYNN DAVID GROOMS	Not determined:		Known:		Source:	

Structural Condition (Describe the current structural condition of the property)

Good (well maintained, no serious problems apparent):	<input checked="" type="checkbox"/>	Poor (major problems; imminent threat):	<input type="checkbox"/>
Fair (some problems apparent):	<input type="checkbox"/>	Ruin/Uninhabitable:	<input type="checkbox"/>

Describe:

USES/FUNCTION

Current Use:	RESIDENCE
Historic Use:	RESIDENCE
Sources:	

SIGNIFICANCE

A. Historic Events/Trends (Describe how the property is associated either with a significant historic event, or with a trend or pattern of events important to the history of the nation, the state, or a local community.)

DESIGNED & BUILT BY FIRMS ASSOCIATED W/CHAPEL OF THE HOLY CROSS

B. Person (Describe how the property is associated with the life of a person significant in the past.)

FRANK LLOYD WRIGHT CONCEPT (CHAPEL) THAT HAD BEEN PLANNED FOR CONSTRUCTION IN EUROPE DURING 1930S.

C. Architecture (Describe how the property embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or possesses high artistic values.)

ODE TO HOPI CULTURE, TOWED TO BE FIRST PUEBLO HOUSE BUILT IN SEDONA.

Outbuildings: (Describe any other buildings or structures on the property and whether they may be considered historic.)

ATTRACTED CARPORT - PERIOD/ARCHITECTURAL APPROPRIATE

Sedona Historic Property Inventory Form

INTEGRITY (To be eligible, a property must have integrity-it must be able to visually convey its importance.)

1. Location

Original site: <input checked="" type="checkbox"/>	Moved: <input type="checkbox"/>	Date: <input type="text"/>	Original Site: <input type="text"/>
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2. Design

(Describe alterations from the original design, including dates—known or estimated—when alterations were made)

REMOVAL OF BOULDERS (PASSIVE HEAT) FROM CRAWL SPACE -
NOW - EASE

3. Setting (Describe the natural and/or built environment around the property)

REFER TO APPLICATION

Describe how the setting has changed since the property's period of significance:

ADJOINING LAND CURRENTLY UNDER SUBDIVIDING

4. Materials (Describe the materials used in the following elements of the property)

Walls (structure):	WOOD FRAME	Foundation:	CONCRETE	Roof:	WOOD DECK W/ ELASTOMERIC COVER
Wall Sheathing:	STUCCO / PAINT OVER PLYWOOD SHEATHING				
If the sheathing has been altered, what was it originally?					
ONE PANEL REPLACED IN REAR DUE TO TERMITE DAMAGE					
Windows:	SINGLE & DOUBLE PANE, SET IN WOOD FRAMES OR CRAWL CASSEMENTS				
If the windows have been altered, what were they originally?					

5. Workmanship (Describe the distinctive elements, if any, of craftsmanship or method of construction)

UNUSUAL STUCCO WASH OVER KNOCK-DOWN APPLICATION

RECOMMENDATIONS OF ELIGIBILITY (opinion of surveyor)

Individually, the Property <u>is</u> eligible:	<input checked="" type="checkbox"/>	Individually, the Property <u>is not</u> eligible:	<input type="checkbox"/>
Property <u>is</u> eligible as a contributor to a potential historic district:	<input type="checkbox"/>	Property <u>is not</u> eligible as a contributor to a potential historic district:	<input type="checkbox"/>
More information needed to evaluate:	<input checked="" type="checkbox"/>	ARCHITECTS & BUILDING DRAWINGS	
If not considered eligible, state reason:			

FORM COMPLETED BY:

Name:	JOHN F. "JACK" FIEWE	Date:	MARCH 23, 2023
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Sedona Historic Property Inventory Form

PROPERTY INFORMATION

Address:	56 Lynx Drive, Sedona, AZ	Survey Site #:	
Historic Name:	Kiva House	Zoning:	RS-10 (SFR)
APN #:	401-49-002	Acres:	0.3
County:	Coconino	Subdivision:	Chapel Bells Estates 2
Owner name:	Lin Ennis, Ellen Betts	Owner Address:	56 Lynx Drive, Sedona, AZ

BUILDING INFORMATION

Construction Date:	1978	Estimated:		Known:	x	Source:	Coconino County
Architect:	See comments	Not determined:		Known:	x	Source:	L. David Grooms
Builder:	Lynn David Grooms	Not determined:		Known:	x	Source:	L. David Grooms

Structural Condition *(Describe the current structural condition of the property)*

Good <i>(well maintained, no serious problems apparent):</i>	x	Poor <i>(major problems; imminent threat):</i>	
Fair <i>(some problems apparent):</i>		Ruin/Uninhabitable:	

Describe: A limited area on the north exterior sheathing/stucco had been replaced due to termite infestation. This is determined to have no effect for landmarking purposes.

USES/FUNCTION

Current Use:	Private residential (SFR)
Historic Use:	Private residential (SFR)
Sources:	Builder's rendering by William A. Cook, AIA; Coconino County records

SIGNIFICANCE

A. Historic Events/Trends *(Describe how the property is associated either with a significant historic event, or with a trend or pattern of events important to the history of the nation, the state, or a local community.)*

The pueblo design is touted to be the first of its kind in Sedona. Further, it incorporates both active and passive solar systems. The house appeared in *Arizona Highways* (May 1984) and *Sedona Life* (Winter 1978).

B. Person *(Describe how the property is associated with the life of a person significant in the past.)*

Interior Inspection revealed Frank Lloyd Wright influence.

C. Architecture *(Describe how the property embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or possesses high artistic values.)*

Described by designer as Puebloan Kiva architecture. Influences include Paleo and Archaic interests, Aboriginal Architecture, and New Mexican Pueblos.
Outbuildings: <i>(Describe any other buildings or structures on the property and whether they may be considered historic.)</i>
Open carport is original and attached to residence. Period and architecturally appropriate.

INTEGRITY *(To be eligible, a property must have integrity—it must be able to visually convey its importance.)*

1. Location

Original site:	X	Moved:		Date:		Original Site:	Completed 1978
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2. Design

(Describe alterations from the original design, including dates—known or estimated—when alterations were made)

Maintenance included repair and re-stucco of a portion of exterior wall. Boulders for passive heat/cooling system were removed, with no effect to overall structure or eligibility.

3. Setting *(Describe the natural and/or built environment around the property)*

Grooms reported that the home, carport, and landscape design were located to “mitigate disruption to existing vegetation, optimize views, and site planning orientation to provide lifestyle off-street.”
<i>Describe how the setting has changed since the property’s period of significance:</i> No effect

4. Materials *(Describe the materials used in the following elements of the property)*

Walls (structure):	Frame/CMU	Foundation:	Poured concrete	Roof:	Low slope, rolled composite, T&G
Wall Sheathing:	Plywood over wood frame/CMU and rigid insulation (double R-factor).				
<i>If the sheathing has been altered, what was it originally?</i>					
Windows:	Dbl. pane Pella set in wood frames w/casements for ventilation.				
<i>If the windows have been altered, what were they originally?</i>					

5. Workmanship *(Describe the distinctive elements, if any, of craftsmanship or method of construction)*

Aboriginal structural components with concern for cylindrical elements; replication of craftsmanship typically found in Puebloan and early Spanish construction.
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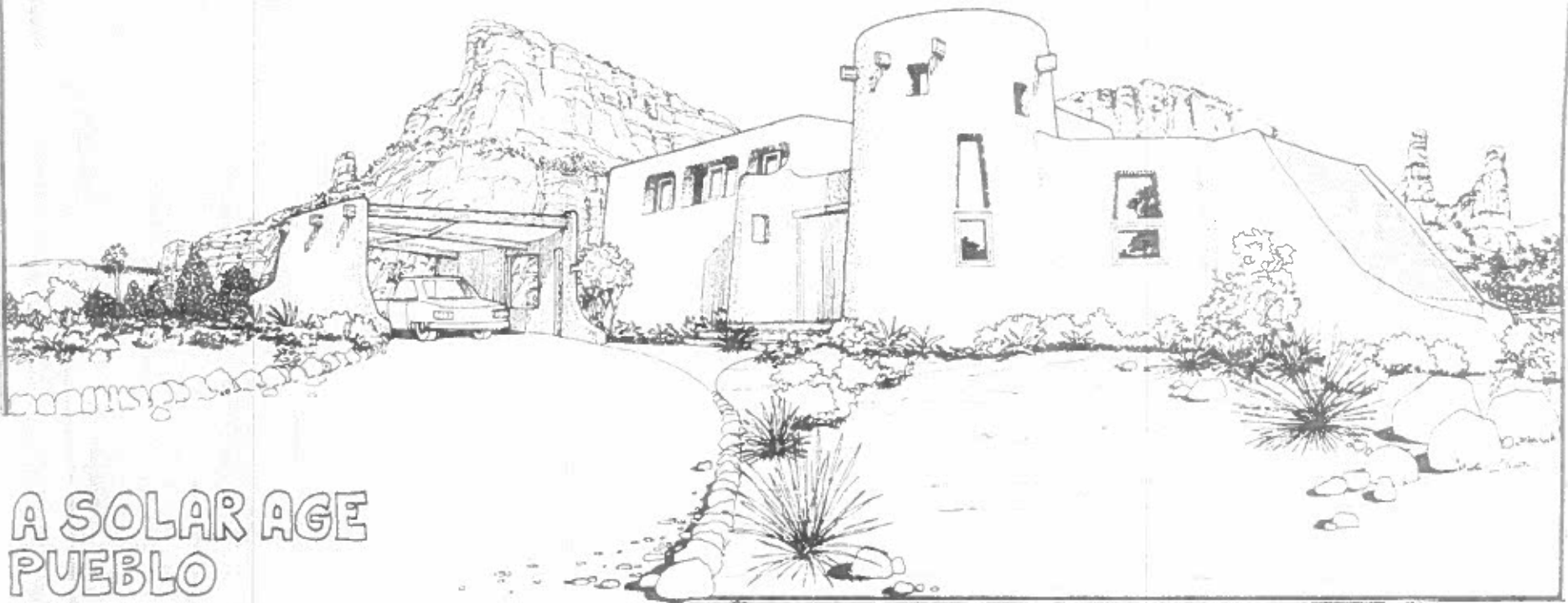
RECOMMENDATIONS OF ELIGIBILITY *(opinion of surveyor)*

Individually, the Property <u>is</u> eligible:	X	Individually, the Property <u>is not</u> eligible:	
Property <u>is</u> eligible as a contributor to a potential historic district:		Property <u>is not</u> eligible as a contributor to a potential historic district:	
More information needed to evaluate:	X	See note below.	
<i>If not considered eligible, state reason:</i>			

FORM COMPLETED BY:

Name:	John F. "Jack" Fiene	Date:	November 9, 2023
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Note: L. David Grooms describes himself as an architectural designer, and not an architect, as he did not/does not have AIA designation. There are voluminous notes taken from discussions between Mr. Grooms and the owners of this property found within the City's records. Coconino County records from the permitting process may have been archived.



A SOLAR AGE PUEBLO

DESIGN & CONSTRUCTION BY
L. DAVID GROOMS

WITH
DR. VICTOR & MARION MUELLER

RENDERING BY
WILLIAM H. COCK, AIA

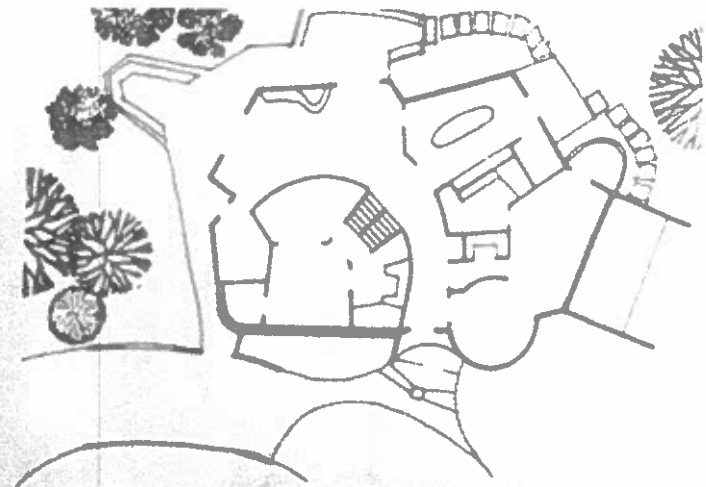
FEATURES

- * SOLAR HEATING / COOLING SYSTEM FULLY INTEGRATED WITH ZONED CENTRAL HEATING SYSTEM
- * SOLAR HOT WATER PREHEATING
- * COMBINATION COMBUSTION - SOLAR COLLECTOR
- * DOUBLE INSULATION WITH AIRSPACE WAFF ON OUTSIDE WALLS - STEEL WALLS & FLOORS
- * DOUBLE GLAZED FLOOR TO CEILING WINDOWS
- * HIGHLY EFFICIENT THERMOPAN WINDOWS
- * WEATHER HEADS OVER WINDOW & ROOF OVERHANGS
- * SOLE POSITION FACING WITH PAIR OF REINFORCED CONCRETE
- * TWO MASTER BEDROOMS - OPTION
- * ADDITIONALLY INSULATED STEREO WALLS
- * 2 1/2" - 4" RADIANT MASS
- * GLAZED LEANS WINDOW & TERRACE
- * ALVA



- * SOLAR HEATING / CONDUCTION COOLING FULLY INTERFACED WITH LENNOX CENTRAL BACKUP SYSTEM
- * SOLAR HOT WATER PRE-HEATING
- * COMBINATION GREENHOUSE - SOLAR COLLECTOR
- * DOUBLE INSULATION WITH STYROFOAM WRAP ON CEILINGS, WALLS, STEM WALLS & FLOORS.
- * DOUBLE GLAZED PELLA WOOD CASEMENT WINDOWS
- * MAXIMUM EFFICIENCY FIREVIEW FIREPLACES

- * WEATHER SEALED DOOR, WINDOW & ROOF CONSTRUCTION
- * FOUR OUTDOOR PATIOS WITH BUILT-IN REDWOOD FURNITURE
- * TWO MASTER BEDROOM SUITES
- * ACOUSTICALLY INSULATED INTERIOR WALLS
- * JENN - AIR RANGE GRILL
- * STAINED GLASS WINDOW ACCENTS
- * KIVA



September 5, 2023

KIVA HOME – Sedona, Arizona

Re: History and Details of the Puebloan Kiva Home and Designer / Builder L. David Grooms
Construction of the Sloping Cylindrical Kiva

LDG reply to Lin Ennis and Dr. Ellen Betts ... Home Owners

Honorable Lin and Dr. Ellen ...

Thanks so much for your Inquiry as to Details regarding the Kiva Home History.

Beginning with the fact that it is a privilege to be prompted to finally be challenged to Recall all that Transpired in the Design and Construction of the Kiva Home, whereas the Process was far more “Interesting” than many have understood.

The Kiva Home has been fraught with everything from Praise to Misinformation since Day One.

IMPORTANT TO UNDERSTAND THAT I AM AN ARCHITECTURAL DESIGNER -- NOT AN ARCHITECT, rather having done elaborate Architectural Design, Engineering, and subsequent Construction and Consulting on some very Elaborate Homes to Mansions as well as being Involved with one of America’s Historic Landmark Properties. In most States, it is a Code Violation to Claim Oneself as an Architect unless certified AIA.

(About > Details about You > Basic Bio) https://www.facebook.com/ldavid.grooms.9/about_details

Dr. Victor and Marion Mueller requested if I would Design a Home that was a Compliment to the Incredible Red Rocks Landscape, Sedona History, and their Lifestyle. The Puebloan Kiva Home thus evolved because of my Art Background, Paleo and Archaic Society Interests, Design and Construction Experience, and having a few College Courses in Aboriginal Architecture. Plus, I spent a few College Era summers in Taos New Mexico, always intrigued by the Taos Pueblos and their Culture ... also having spent time in Japan and Korea, fascinated with their Elegant Craftsmanship and amazing Energy Efficiency.

HAVING TAUGHT THE ENGINEERING TECHNICALITIES OF UBC / IBC CODES TO ARCHITECTS AND CONTRACTORS as they were first Introduced to Regional Building Departments ... consequently, the Submittal of the Kiva Home Design to Coconino County was a smooth well-accepted process. No opposition to the Design and Structure by Building Officials. The Plans amounted to simple Elevations and Floor Plans -- No formal Blueprints.

The Home was Featured in Sedona Magazine which got the attention of the AZ Highways Photographers Clementz Husband and Wife Team. My Sedona Architect friend William Cook AIA did a fabulous Photo and Mylar Trace rendering after construction and landscaping, also available.

CONSTRUCTION REQUIRED A BIT OF CREATIVITY ... since Building Materials are Geometric, and the Structure was Curvilinear. Some were Double Walls for Puebloan Outside, and Traditional Room Walls Inside.

Custom Redwood Planking was Ordered Mill-Direct so every other Board was the Reciprocal thus we could match the Grain for the Existing Design by flipping every-other Plank. The Redwood was personally selected from stock with the proper color and pattern.

Many Windows were Located after Framing to Optimize Views ... which could not have been done efficiently in the Design Process. Kitchen Counters for example were Placed after the fact. Once Framed, we could then Identify Window Height, Size, and Locations. The Fire-view Stove was located so those seated could enjoy the commanding Red Rock Landscapes. Same for the Cookie in the Kitchen. Tried to keep an Open Floor Plan as possible. Building Sites are often ravaged by Heavy Equipment, without regard for the Natural Vegetation. The Kiva Home was actually Designed with preservation of everything Foliage and Natural as we could.

Viga style Beams accented the Kiva as well as providing the Roof Structure ... which wasn't all that simple to build, given the cylindrical design. Spanish adopted Vigas and Latillas in Design as was common in Archaic Puebloan Structures. Some areas of the Kiva Home Roof System may have had "built-in" Drainage Plumbing vs Scuppers, think so but don't remember for sure. Aboriginal Builders would have further used Latillas in their roof Systems. Which in hindsight would have been a consideration for the Carport. If since Roofed, that makes sense. Another regard per Low Slope Roof Systems ... they need Crickets or must be designed to Codes for proper drainage. Because of the extremely Soft Soil on the Site, it is Important to channel all Roof Drainage away from Foundations. Settling from Water Compaction is a common structural Problem in Arizona.

DESIGN AND CONSTRUCTION DETAILS ... Solar Heating and Cooling was interfaced with a Back-Up Lennox Thermostat and Air Handling System.

The combination Greenhouse and Solar Collector retrieved Heat or Coolth from a Tromb  CMU Wall adjacent to the Main House with Vents at the Top and at the Bottom for either Passive or On-Demand Operations per a Multi-Stage Honeywell Thermostat Controller.

Hot Water was to be Pre-Heated (reducing Temperature Rise and Energy Demand).

Ceilings, Walls, Stem-Walls, and Floors had Double Wrap Rigid Styrofoam Insulation.

Double Glazed Insulated Pella Wood Windows Installed with Casement Operating for Ventilation.

Exterior Windows as Geometric were blended into the Puebloan Design Motif by Fixed Windows with Curvilinear Features, Operating Manufactured Units Under or Between Sculptured Openings.

High Combustion Efficiency Wood Stove with Fire-view Window placed in Living area so as to provide Seating Proximity Comfort and Ambiance along with View of the Red Rocks.

Four Outdoor Patios accessed the Ecosystem as well as providing Acoustic Privacy from Auto Traffic. The lower Master Suite has a Walk-Out ground level Patio with approx 5 ft. Wall Surround to enable Day or Night access without concern for Slithery Critters ... Safety a Priority. Some Patio Areas included Built-In Redwood Seating.

Two Master BR Suites with Upper slated for Guest Accommodations. The Upper MBR Options also intended as an Artist Studio, Office, Library / Study / Gallery. Red Rock views both directions and Windows for Cross Ventilation.

All Interior Walls were Double R-Factor Insulated for All Hours Acoustic Privacy.

Jenn-Air Range / Grill in Kitchen ... Triangle convenience of Appliance Placements. Work station at Island Kitchen Counter was View Optimized as well as Open access to Guests in the Common areas.

Some Windows were Cut Out after Wall Framing ... so as to Enable Optimized Views, Ventilation, and Furniture Placement preferences ... otherwise guess-work if by drawing into Plans in advance. Particularly given the Irregular Floor Plan and the requisite commanding Views.

All Doors and Windows were Weather and Moisture Sealed with best available Architectural Caulking.

Stain Glass Windows (3) in the Kiva were located to provide Light ... Early, Mid-Day, and Evening for Colored Light Refraction thru-out the Kiva. Also, coordinated with Solar seasonal Azimuth and Angle of Incidence.

Employed Best available Stucco Contractor in the SW Region for Lath over Insulation and Vapor Barriers with Double Stucco Applications.

Two Dump Truck Loads of large Stones were placed in the below grade Reservoir to provide for Retrieval of Seasonal Heat or Coolth as an Energy Alternative for the Kiva Home. Airflow through the Plenum as ducted into living areas was powered by Evaporative Cooling System. The Geothermal Benefit as Integrated was reported to have Influenced Amana, GE, and other Heat Pump Manufacturers to redress "Heat and Coolth" Sourcing Retrieval from Outside Ambient Air to the far more Efficient Option of GeoThermal.

Per previous mention, Redwood Interior Walls were Pattern Matched as an Aesthetic Compliment. The Massive Entry Door was Custom Built On Site.

Floor Plans were Designed to Optimize Space, Traffic, Acoustics, Views, Privacy, Art Displays, Galleries, Music, Interior Lighting, Adequate Daytime Lighting, Ventilation, easy Ingress Egress for Groceries, minimized Energy Demands, Opening the Interior to the Landscape, provide for Guest and Owner Privacy, and allow a Lifestyle Tranquility that did not know it was within a Housing Development.

The Kiva Room intended as a unique Sitting Room for Guest or Visitor or Service Personnel Reception, Owner Relaxation and Ambiance in a Private Retreat, Study, Studio, or just Celebrating Life as the Custom of Ancients.

Drive to Entry Walkway added specially selected Washed Aggregate for Appeal and Non-Slip.

The Home and other Structures were Located on the Property to Mitigate Disruption to existing Vegetation, Optimize Views, and Site Planning Orientation to provide Lifestyle Off Street Privacy.

Puebloan Aboriginal Cultures used both Adobe, Stone, and Combination ... where Adobe was used as Mortar and as Stucco ... therefore the Kiva Home Architecture used the more Practical solution of Frame with Plaster Overlay.

Kiva Rooms were Trending Mandates for varied early American Puebloan Cultures ... such as Chaco Canyon's Ancestral Puebloan people (Anasazi), Pueblo Bonito, the Mesa Verde Complex, and many others. Their Occupational Complex sometimes included up to 30 or more Kivas for Ceremonial Activities, Honoring Deities, and various Socio-Cultural Routines.

Precise Aerial Measurement Report



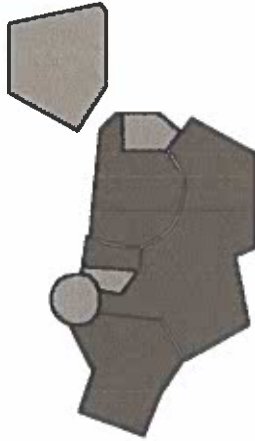
56 Lynx Dr, Sedona, AZ 86336-7144

Prepared for you by ABC Supply Co.



ABC Supply Co.
3200 S Fanning Dr
Flagstaff, AZ 86004

Branch Manager Eddie Padilla
tel. 928-526-9336
email: mgr563@abcsupply.com



In this 3D model, facets appear as semi-transparent to reveal overhangs.

PREPARED FOR

Contact: Jason Dudek
Company: ABC Supply Co.
Address: 3770 E Huntington Dr
Flagstaff, AZ 86004
Phone: 928-526-9336

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MEASUREMENTS

Total Roof Area =2,431 sq ft
Total Roof Facets =8
Predominant Pitch =0/12
Number of Stories <=1
Total Ridges/Hips =0 ft
Total Valleys =0 ft
Total Rakes =0 ft
Total Eaves =37 ft

Measurements provided by www.eagleview.com



Certified Accurate

www.eagleview.com/Guarantee.aspx

IMAGES

The following aerial images show different angles of this structure for your reference.

Top View



IMAGES

North Side



South Side



IMAGES

East Side



West Side



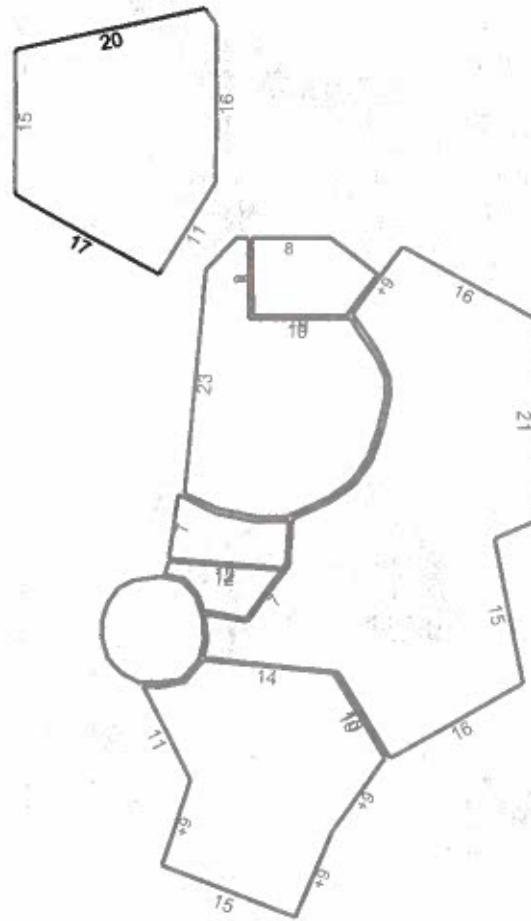
LENGTH DIAGRAM

Total Line Lengths:

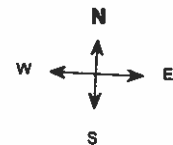
Ridges = 0 ft
Hips = 0 ft

Valleys = 0 ft
Rakes = 0 ft
Eaves = 37 ft

Flashing = 0 ft
Step flashing = 0 ft
Parapets = 503 ft



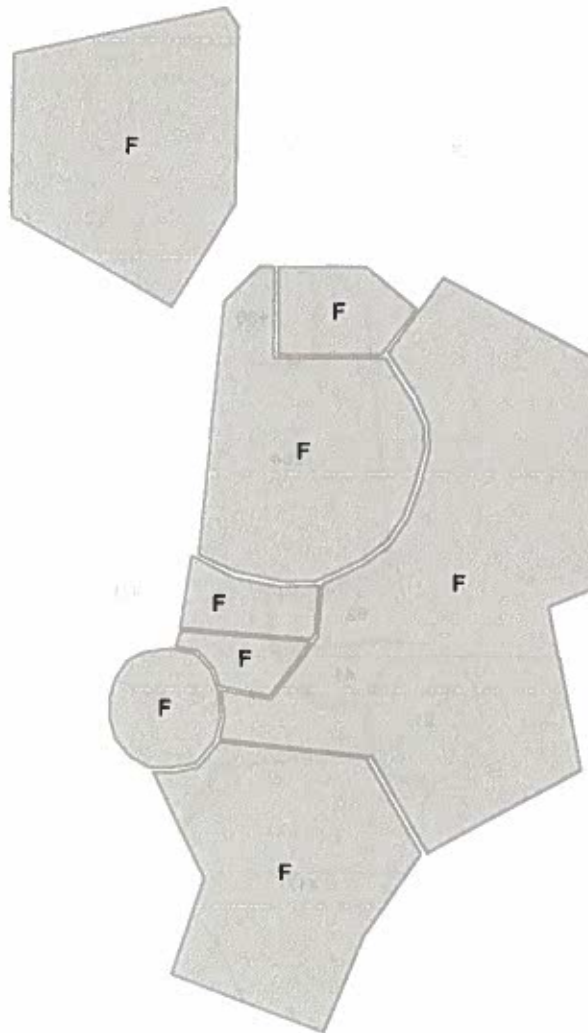
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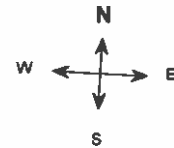
Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5.0 Feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).

PITCH DIAGRAM

Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 0/12



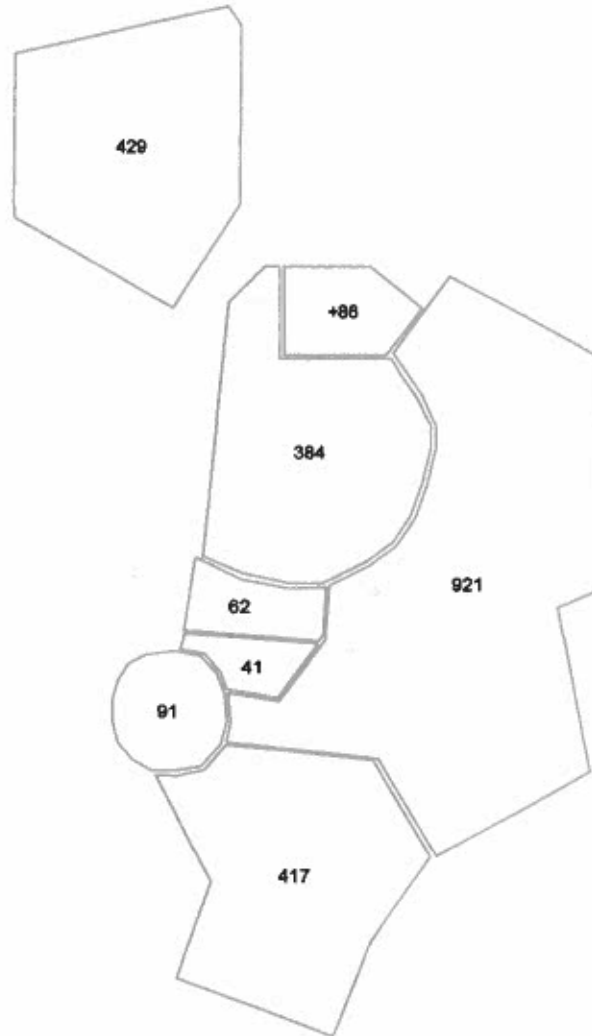
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Note: This diagram contains labeled pitches for facet areas larger than 20.0 square feet. In some cases, pitch labels have been removed for readability. Gray shading indicates flat, 1/12 or 2/12 pitches. If present, a value of "F" indicates a flat facet (no pitch).

AREA DIAGRAM

Total Area = 2,431 sq ft, with 8 facets.

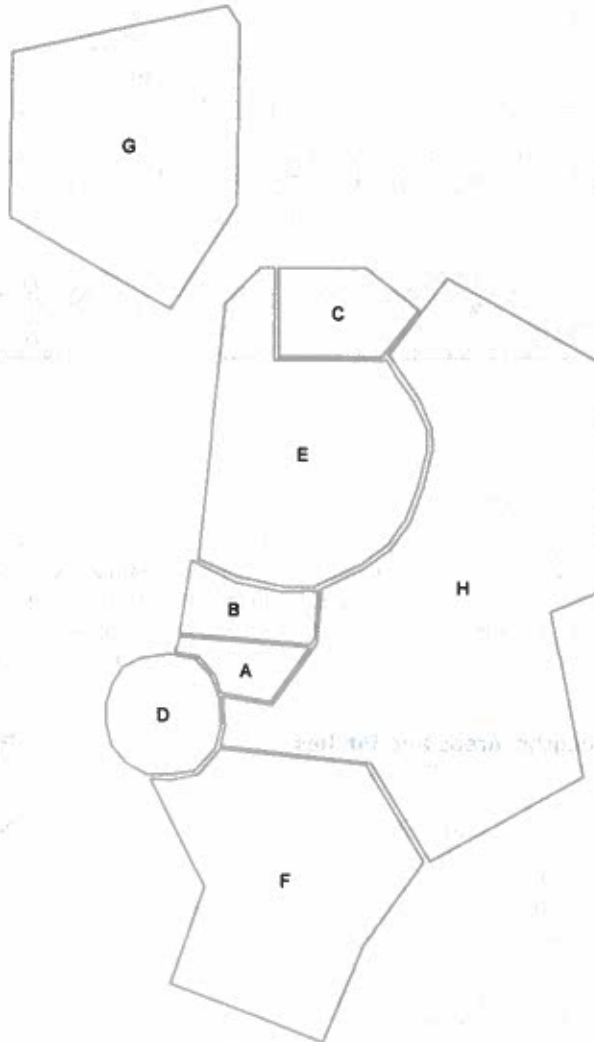


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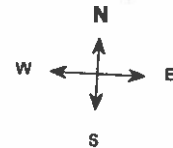
Note: This diagram shows the square feet of each roof facet (rounded to the nearest Foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

NOTES DIAGRAM

Roof facets are labeled from smallest to largest (A to Z) for easy reference.



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REPORT SUMMARY

Structure #1

Areas per Pitch

Roof Pitches	0/12
Area (sq ft)	2001.6
% of Roof	100%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity

Simple

Normal

Complex

Waste Calculation

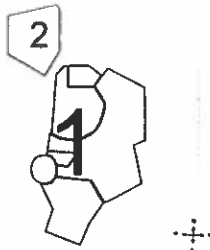
NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the **Lengths, Areas, and Pitches** section below.

Waste %	0	0	0	0	0	0	0	0	0
Area (Sq ft)	0	0	0	0	0	0	0	0	0
Squares *	0	0	0	0	0	0	0	0	0

Measured

* Squares are rounded up to the 1/3 of a square.

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.



Total Roof Facets = 7

Lengths, Areas and Pitches

Ridges = 0 ft (0 Ridges)
 Hips = 0 ft (0 Hips)
 Valleys = 0 ft (0 Valleys)
 Rakes† = 0 ft (0 Rakes)
 Eaves/Starter‡ = 0 ft (0 Eaves)
 Drip Edge (Eaves + Rakes) = 0 ft (0 Lengths)
 Parapet Walls = 458 (85 Lengths).
 Flashing = 0 ft (0 Lengths)
 Step flashing = 0 ft (0 Lengths)
 Predominant Pitch = 0/12
Total Area (All Pitches) = 2002 sq ft

Property Location

Longitude = -111.7713241
 Latitude = 34.8285697

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

† Rakes are defined as roof edges that are sloped (not level).
 ‡ Eaves are defined as roof edges that are not sloped and level.

REPORT SUMMARY

Structure #2

Areas per Pitch

Roof Pitches	0/12
Area (sq ft)	429.1
% of Roof	100%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity

Simple	Normal	Complex
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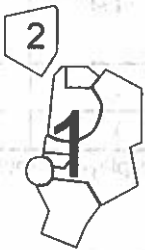
Waste Calculation

NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the **Lengths, Areas, and Pitches** section below.

Waste %	0	0	0	0	0	0	0	0	0
Area (Sq ft)	0	0	0	0	0	0	0	0	0
Squares *	0	0	0	0	0	0	0	0	0
	Measured								

* Squares are rounded up to the 1/3 of a square.

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.



Lengths, Areas and Pitches

Ridges = 0 ft (0 Ridges)
 Hips = 0 ft (0 Hips)
 Valleys = 0 ft (0 Valleys)
 Rakes† = 0 ft (0 Rakes)
 Eaves/Starter‡ = 36 ft (2 Eaves)
 Drip Edge (Eaves + Rakes) = 36 ft (2 Lengths)
 Parapet Walls = 44 (4 Lengths).
 Flashing = 0 ft (0 Lengths)
 Step flashing = 0 ft (0 Lengths)
 Predominant Pitch = 0/12
Total Area (All Pitches) = 429 sq ft

Property Location

Longitude = -111.7713241
 Latitude = 34.8285697

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

Total Roof Facets = 1

† Rakes are defined as roof edges that are sloped (not level).

‡ Eaves are defined as roof edges that are not sloped and level.

REPORT SUMMARY

All Structures

Areas per Pitch	
Roof Pitches	0/12
Area (sq ft)	2430.8
% of Roof	100%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

All Structures Totals



Total Roof Facets = 8

Lengths, Areas and Pitches

Ridges = 0 ft (0 Ridges)
 Hips = 0 ft (0 Hips).
 Valleys = 0 ft (0 Valleys)
 Rakes† = 0 ft (0 Rakes)
 Eaves/Starter‡ = 37 ft (2 Eaves)
 Drip Edge (Eaves + Rakes) = 37 ft (2 Lengths)
 Parapet Walls = 503 (89 Lengths).
 Flashing = 0 ft (0 Lengths)
 Step flashing = 0 ft (0 Lengths)
 Predominant Pitch = 0/12
Total Area (All Pitches) = 2,431 sq ft

Property Location

Longitude = -111.7713241
 Latitude = 34.8285697

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

Measurements by Structure									
Structure	Area (sq ft)	Ridges (ft)	Hips (ft)	Valleys (ft)	Rakes (ft)	Eaves (ft)	Flashing (ft)	Step Flashing (ft)	Parapets (ft)
1	2002	0	0	0	0	0	0	0	458
2	429	0	0	0	0	36	0	0	44

All values in this table are rounded up to the nearest Foot for each separate structure. Measurement totals displayed elsewhere in this report are added together before rounding which may cause totals to differ.

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Parapet Wall Area Table								
Wall Height (ft)	1	2	3	4	5	6	7	
Vertical Wall Area	503	1006	1509	2012	2515	3018	3521	

This table provides common parapet wall heights to aid you in calculating the total vertical area of these walls. Note that these values assume a 90 degree angle at the base of the wall. Allow for extra materials to cover cant strips and tapered edges.

† Rakes are defined as roof edges that are sloped (not level).
 ‡ Eaves are defined as roof edges that are not sloped and level.

56 Lynx Dr, Sedona, AZ 86336-7144

Report: 47998823

Online Maps

Online map of property

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=56+Lynx+Dr,Sedona,AZ,86336-7144

Directions from ABC Supply Co. to this property

http://maps.google.com/maps?f=d&source=s_d&saddr=3770+E+Huntington+Dr,Flagstaff,AZ,86004&daddr=56+Lynx+Dr,Sedona,AZ,86336-7144

56 Lynx Dr, Sedona, AZ 86336-7144

Report: 47998823

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