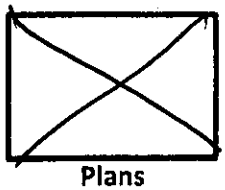
B

Type



Plans

BLD14-5790

Permit Number

2335

Street Number

WILLOW CREEK RD

Street Name

JEN

Community Code

097-210-006

APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name:	Date Applied:

JOB ADDRESS: 2335 Willow Creek Rd TEN PERMIT NUMBER: BLD 14-5790 INSPECTION AREA: 7

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 2335 WILLOW CREEK ROAD	City:	ZIP: ~~94705~~ 94952	
Cross-Street: JENNER Hwy 1	APN: 097-210-006	Project Phone #: (415) 601-1863	Project Fax #: ( )
Directions:	Email address:	Unit #	Lot #
Describe Project: GUEST HOUSE IN EXISTING BARN	Living Area 640 Garage 370 + 203 SHED Decks 100	Contract Price: 50K	

OWNER NAME AND ADDRESS			APPLICANT NAME AND ADDRESS		
Name: PAUL & MARIA MATTHEWS			Name: CHARLES "CHURCH" HILDRETH		
Mailing Address: 301 MAIN ST.			Mailing Address: 301 PET. BLVD. S.		
City: SAN FRANCISCO	State: CA	ZIP: 94105	City: PETALUMA	State: CA	ZIP: 94952
Day Ph: ( )	Fax: ( )		Day Ph: (707) 778 7232	Fax: ( )	

CONTRACTOR INFORMATION			OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)		
Company Name:			Name:		
Address:			Address:		
City:	State:	ZIP:	City:	State:	ZIP:
Day Ph: ( )	Fax: ( )		Day Ph: ( )	Fax: ( )	
			License No:	Exp. Date:	

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier _____

Policy No. _____

(This section need not be completed if the permit is for one hundred dollars ($100) or less).

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: _____ Applicant: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☒ I am exempt under Sec. ~~_____~~, B & P.C. for this reason Architect

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: http://www.cslb.ca.gov/calaw.html.

Date _____ Signature of Property Owner or Authorized Agent _____

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class _____ Lic. No. _____

Exp. Date _____ Contractor _____

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (☐ does) (☐ does not) contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE _____

ADDRESS _____ CITY _____ ZIP _____

☐ Contractor ☐ Owner ☐ Other Licensed Professional

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.).

Lenders Name _____

Lenders Address _____

FOR DEPARTMENT USE

Zoning TP CC B6 160/C, W, D, DR, SR, VOH Acres .246

Existing Use/Structures SFD

Proposed Use/Structures guest house

Zoning Min. Yard Requirements: Front 12' Left 10' Right 10' Back 50

NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change

Approval for Permit Issuance: By: _____ Date: _____

Approval for Occupancy: By: Cynthia Dern Date: 2-26-15

Conditions: ZPE14-0464

Sewer Connection: ☐ Available ☐ Fees Paid

Approved by: _____ Date: _____

Road Encroachment: ☐ Fees Paid

Approved by: _____ Date: _____

Septic System Permit/Clearance # _____

Approved by: Jon Trapp Date: 12-3-2014

Flood Zone: ☐ Yes ☒ No 100 Year Flood Elevation: _____

Site Review _____

Drainage Review:

Approved by: [signature] Date: 3Dec14

Fire:

Approved by: S Mosiurchak Date: 1-16-15 CB

Code Enforcement Violation ☐ Yes ☒ No Violation # _____

This permit is limited to _____ days.

Work Authorized: Guest House / Garage Conversion to Existing Barn

☒ Plans Approved ☐ No Plans Subject to Field Inspection

☐ Post FIRM ☐ Alquist Priolo Report Available ☐ Pre FIRM ☐ Geotechnical report Available

Plancheck Cleared By	Date:	Type of Construction	Occupancy	No. of Stories	No. of Bedrooms
DCB	1/28/15				
Permit Cleared for Issuance By	**Date:**	**Auto. Fire Sprinklers Req'd**	**No of Units**	**Certificate of Occupancy**	
[signature]	3/10/15				

Machine Space for Permit Fee

MAR 10 2015

Revised: 01/29/2009 cmutter s:\handouts\ess\CIS-007.cdr

Distribution: White - File Canary - Applicant Blue -Assessor Cardstock - Inspector

131) SPECIAL INSPECTION REQUIRED	☐ YES	☒ NO	IF YES, SEE ADDITIONAL SHEET

	INSPECTION RECORD	DATE	NAME
101)	**ROUGH GRADING**		
103)	**FOUNDATION**		
	FORMS/SETBACK		
	FOOTING	4-2-15	RP
	WALLS		
106)	**UFER GROUND #**	4-2-15	RP
104)	**CAISSONS/PIERS**		
105)	**SLAB** *	4-7-15	RP
107)	**UNDERGROUND UTILITIES**	4-2-15	RP
110)	**MASONRY**		
109)	**RETAINING WALLS**		
113)	**FIREPLACE**		
	FOOTING		
	HEARTH/PROTECTION		
	THROAT		
114)	**CHIMNEY**		
120)	**UNDERFLOOR/UNDERSLAB**		
115)	**HYDRONICS**		
116)	**U/F ELECTRICAL**		
117)	**U/F MECHANICAL**		
118)	**U/F PLUMBING**	4-24-15	RP
119)	**U/F FRAMING**		
139)	**U/F INSULATION**		
126)	**SHEAR WALLS**	5-20-15	RP
	☐ INTERIOR ☐ EXTERIOR		
127)	**DIAPHRAGMS**	5-20-15	RP
	☐ ROOF ☐ FLOOR		
134)	**SIDING/SHEATHING**		
125)	**HOLD DOWNS**		
132)	**CLOSE-IN**	6/15/15	W
122)	**ROUGH ELECTRICAL**		
123)	**ROUGH MECHANICAL**		
124)	**ROUGH PLUMBING**		
128)	**ROUGH FRAME**		
160)	**SMOKE DETECTORS**		
139)	**INSULATION**		
142)	**WALLBOARD**	6-15-15	JH/TB
143)	**FIREWALLS**		
135)	**STUCCO/PLASTER**		
	☐ LATH ☐ SCRATCH		
137)	**ROOFING**		
130)	**TUB/SHOWER PAN**	7-7-15	RP
162)	**FIRE DAMPERS/DOORS**		
164)	**SUSPENDED CEILING**		
	☐ ROUGH ELEC. ☐ ROUGH MECH.		
165)	**EXITING** - RAMPS/STAIRS		
163)	HANDRAILS/GUARDRAILS		
	CORRIDORS/DOORS		
166)	**ACCESSIBILITY COMPLIANCE**		
144)	**WATER TANKS**		
	☐ SLAB ☐ WALLS		
170)	**TEMPORARY OCCUPANCY**		
171)	**TEMPORARY ELECTRICAL**		
172)	**TEMPORARY GAS**		
174)	**ELECTRIC METER AUTHORIZATION**		
152)	**PANEL BOARDS/SERVICE**		
189)	**SEPTIC ELECTRIC FINAL**		
175)	**GAS METER AUTHORIZATION**		
153)	**GAS PRESSURE TEST**		
	HOUSE YARD		
190)	**MANUF. HOME FOUNDATION**		
191)	**MANUF. HOME INSTALLATION**		
	CONTINUITY		
	STAIRS/SKIRTS		
	RIDGE BOLTING		
193)	**MANUF. HOME COND. FINAL**		
	SWIMMING POOLS		
194)	PRE-GUNITE		
195)	PRE-DECK		
196)	PRE-PLASTER/FENCE		
197)	VINYL/FIBERGLASS POOL EXCAVATION		
102)	**GRADING FINAL**	9-28-15	RP
176)	**ELECTRICAL FINAL**		
177)	**MECHANICAL FINAL**		
178)	**PLUMBING FINAL**		
199)	**FINAL**	9-28-15	RP
	OCCUPANCY (OK TO OCCUPY)		

REMARKS

* 4/7/15 Garage slab - see Rex

650)	**SUSMP INSPECTION**		
651)	**NPDES EROSION COMPLIANCE**		
652)	**NPDES SEDIMENT COMPLIANCE**		
653)	**NPDES DOCS/SWPPP**		

FIRE INSPECTION REQUIRED	DATE	NAME
☒ Yes ☐ No		
759) **KNOX BOX**		
760) **PROPANE TANK HOLD DOWNS**		
770) **SPRINKLER FINAL**		
771) **ABOVEGROUND HYDROSTATIC**		
772) **UNDERGROUND HYDROSTATIC**		
773) **UNDERGROUND FLUSH**		
774) **THRUST BLOCKS**		
775) **PIPE WELD**		
776) **HYDRANTS/APPLIANCES**		
777) **PUMP ACCEPTANCE**		
778) **WATER SUPPLY/TANK**		
779) **ALARM SYSTEM**		
780) **HOOD & DUCT SYSTEM**		
781) **ABOVEGROUND TANK/DISPENSER**		
198) **FIRE FINAL**		

CLEARANCES:

FIRE ☐ Local ☐ County

HEALTH DEPARTMENT

ZONING

SANITATION

PLAN RETENTION REQUIRED? ☐ Yes ☐ No

PERMIT # Bld14 5790

SITE EVALUATION SHEET

Address 2335 Willow Creek Rd JEN **PC#** BLD14-5790

Inspector William Kelly **Date** 12-11-14

The proposed construction appears to be located in: 097-210-006

Flood Hazard:	[ ] FIRM Flood Zone (ASFH) BFE = _____ft. NAVD. Lowest finish floor at 12 above BFE = _____ft. NAVD. [ ] Design for moving water is recommended Section _____ is _____ Ft/sec Section _____ is _____ Ft/sec [ ] Area subject to flooding (not on adopted FIRM). [ ] Project is on flood zone major damage list. [ ] Flood Prone Urban Area defined by Ordinance #4906.	[ ] Portions of property in flood zone but project site not in flood zone. [ ] Building is in FIRM Floodway. [ ] Main building on site is Post-FIRM. [ ] Sensitive drainage area, review by drainage section recommended. [ ] Appears to be a "substantial improvement" (40%), therefore flood regulations apply. [ ] Located inside the *Laguna de Santa Rosa* below elevation of 75 ft (Ordinance #4906).
Geo-technical:	[ ] Area of suspected slides, slumps, earth flow, or soil creep. (a) [ ] Area of previous fill placement. (g) [ ] Area of suspected expansive soil. (c) [ ] Area without sufficient slope setback as set forth in UBC Section 1806. (b) [ ] Area subject to possible liquefaction. (e) [ ] Area of suspected soft, compressible, or organic soil with low bearing capacity. **Soils Investigation:**	[ ] Area without recommended setback from stream (Drainage Division recommendations). [ ] Area of high moisture content in soil. (f) [ ] Area subject to high erosion (water or wind). [ ] Area of soft soil due to past deep ripping or cultivation below minimum foundation depth. (h) [ ] Area within 1000 feet of a solid waste disposal site. [ ] Non exempt structure per tech bulletin B-28. **Required [ ] Included [ ] Available [ ] Not Required [ ]**
Geologic:	[ ] Located in the Alquist-Priolo Special Studies Zone.	[ ] Geologic report required (see CGS Publication 42).
Seismic:	Seismic Design Category (SDC) D [ ] E [X]	[ ] Pictures available in S Drive
General:	[ ] Building addition will affect the required light and ventilation in an existing room. [ ] Existing electric meter must be replaced. [ ] Existing gas meter must be replaced. Slope is _____	[ ] Indications of existing substandard conditions that are not addressed by the proposed construction. [ ] Indications of past work done without a permit. [ ] Grading permit required for road, driveway, or site preparation. [ ] Site is likely to be acceptable for conventional construction methods.
Wind:	Exposure "B" Exposure "C" Exposure "D"	N.S.C. Air Pollution Control District.....[ ] Yes [ ] No

Acres 2.46

Fire State

Soil HeF, HkF, HsF, JoE, KnF, YaB

Landslide Few, Mostly, Surficial

Liquefaction Moderate, Very High, Very Low

Existing Barn to be converted to 638# Guest House

Flat

Set backs ok

OK to proceed. (RP)

Grading Permit Questionnaire

GRD - 002

Purpose: To assist applicants in determining if a grading permit is required for a proposed project.

Background: Grading is the removal and/or the deposition of earth material by artificial means. Earth material is defined as any rock or natural soil or combination thereof. Grading is generally a combination of excavation (cuts) and placement (fill) of soil. Common examples of grading include constructing a driveway, creating a building pad for further development, or stabilizing a slope. A grading permit is required prior to commencing any grading or related work, including preparatory site clearing and soil disturbance, except where exempted from permit requirements by Section 11.04.020 of the Sonoma County Code.

To determine if a project requires a grading permit, please answer the following questions. If any questions cannot be answered, contact a design professional for assistance and/or consult with the Permit and Resource Management (PRMD) Grading & Storm Water staff. **Incorrect answers may cause delays processing and/or issuing the permit(s) for the project.**

☐ Yes	☑ No	☐ Unknown	1. Does the project include cuts or fills exceeding 50 cubic yards of soil?*
☐ Yes	☑ No	☐ Unknown	2. Does the project include a cut greater than 2 feet in depth?*
☐ Yes	☑ No	☐ Unknown	3. Does the project create a cut slope greater than 5 feet in height and steeper than 2:1 (H:V)?*
☐ Yes	☑ No	☐ Unknown	4. Does the project include a fill greater than 3 feet in depth?
☐ Yes	☑ No	☐ Unknown	5. Does the project include fill between 1 foot and 3 feet in depth, and not intended to support a structure or surcharge, and placed on terrain with a natural slope steeper than 15%?
☐ Yes	☑ No	☐ Unknown	6. Does the project include fill greater than 1 foot in depth and intended to support a structure or surcharge?
☐ Yes	☑ No	☐ Unknown	7. Does the project include any fill within the Flood Prone Urban Area (FPUA)? See map on reverse side of this form for the location of the FPUA.
☐ Yes	☑ No	☐ Unknown	8. Does the project include any fill within a Special Flood Hazard Area designated by FEMA as subject to flooding by the 1% annual chance flood (100-year flood)?

* A "No" answer may be selected for excavations below finished grade for basements, tanks, vaults, swimming pools, and footings of a building, retaining wall, or other structure, where authorized by a valid building permit.

Acknowledgment:

I, as the applicant, understand that a "Yes" answer to **any** of the above questions means that a grading permit is required for my proposed project. Furthermore, the grading permit must be approved before a building permit can be approved for the site. If any answers are "Unknown" to me, I should contact my design professional immediately to determine if a grading permit is required.

Church Hildreth
Applicant Printed Name

Applicant Signature

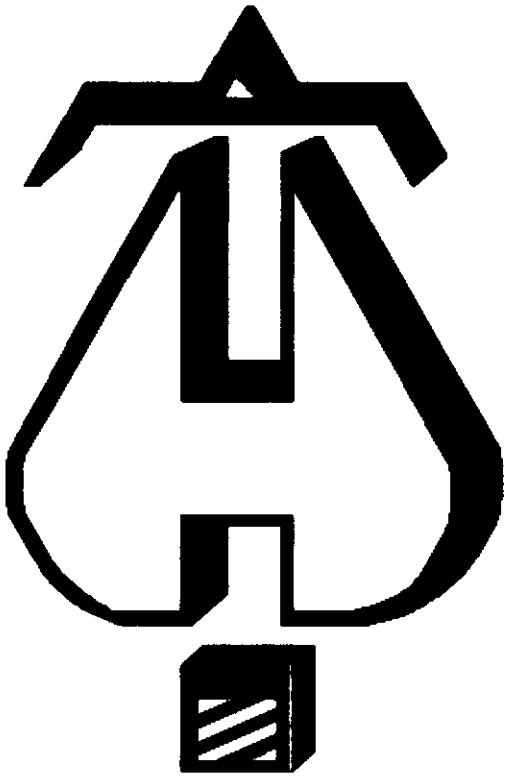
12/4/14
Date

2335 Willow Creek Road
Property Address Jenner

097-210-006
Assessor's Parcel Number(s)

Building Permit Number(s)

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue ❖ Santa Rosa, CA ❖ 95403-2829 ❖ (707) 565-1900 ❖ Fax (707) 565-2210



. . . **Fire Protection by Computer Design**

Capitol Fire and Backflow
11780 Quail Rd.
Auburn, CA 95602
530-888-1944

Job Name	:	Willow Creek Guest House-LIVING ROOM
Building	:	
Location	:	2335 WILLOW CREEK, JENNER CA
System	:	1
Contract	:	15010
Data File	:	15010 LIVING ROOM Calc.WXF

Green Building Acknowledgments

Project Address: 2335 Willow Creek, Jenner

Project Description: Willow Creek Guest House sing family dwelling

Section 1 – Design Verification

Complete all lines of Section 1- "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Division.

The owner/owner's agent, design professional and PRMD Plans Examiner have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the *2013 California Green Building Standards Code* as amended by the local jurisdiction.

Owner's Signature — Date 1/21/15

Owner Name *(Please Print)* KIA CARDAMONE

Design Professional's Signature — Date 1/27/15

Design Professional's Name *(Please Print)*

Signature of Plans Examiner — Date

Section 2 – Implementation Verification

Complete, sign and submit the completed checklist, including Column 3, together with all original signatures on Section 2 – "Implementation Verification" to the Building Department prior to Building Department final inspection.

I have inspected the work and have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2013 California Green Building Standards Code as amended by the local jurisdiction.

Inspector Signature — Date

Inspector's Name *(Please Print)* — Phone *(if different than above)*

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Willow Creek Guest House
Calculation Description: Title 24 Analysis
Calculation Date/Time: 11:29, Tue, Nov 25, 2014
Input File Name: Willow Creek Guest House.xml

GENERAL INFORMATION					
01	Project Name	Willow Creek Guest House			
02	Calculation Description	Title 24 Analysis			
03	Project Location	2335 Willow Creek			
04	A City	Jenner	05	Standards Version	Compliance 2015
06	Zip code	95450	07	Compliance Manager Version	BEMCmpMgr 2013-3 (651)
08	Climate Zone	CZ1	09	Software Version	EnergyPro 6.3
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	180
12	Project Scope	Newly Constructed	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (FT^2)	640	15	Number of Zones	1
16	Slab Area (FT^2)	0	17	Number of Stories	1
18	Addition Cond. Floor Area	N/A	19	Natural Gas Available	No
20	Addition Slab Area (FT^2)	N/A	21	Glazing Percentage (%)	38.8%

COMPLIANCE RESULTS	
01	**Building Complies with Computer Performance**
02	**This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.**
03	**This building incorporates one or more Special Features shown below**

ENERGY USE SUMMARY

04	05	06	07	08
Energy Use (kTDV/ft)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	77.46	104.44	-26.98	-34.8%
Space Cooling	0.00	0.44	-0.44	0.0%
IAQ Ventilation	2.10	2.10	0.00	0.0%
Water Heating	89.83	55.70	34.13	38.0%
Photovoltaic Offset	----	0.00	0.00	----
Compliance Energy Total	**169.39**	**162.68**	**6.71**	**4.0%**

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- **Cathedral Ceiling**
- **No cooling system included**

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building components tables below.

Building-level Verifications:
- **IAQ mechanical ventilation**

Cooling System Verifications:
- **-- None --**

HVAC Distribution System Verifications:
- **-- None --**

Domestic Hot Water System Verifications:
- **-- None --**

ENERGY DESIGN RATING

This is the sum of the annual TDV energy consumption for energy use components included in the performance compliance approach for the Standard Design Building (Energy Budget) and the annual TDV energy consumption for lighting and components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics) and accounting for the annual TDV energy offset by an on-site renewable energy system.

	Reference Energy Use	Energy Design Rating	Margin	Percent Improvement
Total Energy (kTDV/f2)*	**276.83**	**270.12**	**6.71**	**2.4%**

* includes calculated Appliances and Miscellaneous Energy Use (AMEU)

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	**Conditioned Floor Area (sft)**	**Number of Dwelling Units**	**Number of Bedrooms**	**Number of Zones**	**Number of Ventilation Cooling Systems**	**Number of Water Heating Systems**
Willow Creek Guest House	640	1	2	1	0	1

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	**Zone Type**	**HVAC System Name**	**Zone Floor Area (ft^2)**	**Avg. Ceiling Height**	**Water Heating System 1**	**Water Heating System 2**
Living Area	Conditioned	Res HVAC1	640	10	DHW Sys 1	

OPAQUE SURFACES

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft^2)	Window Area (ft^2)	Tilt(deg)
Front Wall	Living Area	R- 13 Wall	180	Front	185	0	90
Left Wall	Living Area	R- 13 Wall	270	Left	460	128	90
Back Wall	Living Area	R- 13 Wall	0	Back	185	0	90
Right Wall	Living Area	R- 13 Wall	90	Right	460	120	90
Raised Floor	Living Area	R-19 Floor w Crawlspace			640		
Front Wall 2	Garage	Garage Ext Wall	180	Front	185	0	90
Left Wall 2	Garage	Garage Ext Wall	270	Left	200	0	90
Back Wall 2	Garage	Garage Ext Wall	0	Back	185	0	90
Right Wall 2	Garage	Garage Ext Wall	90	Right	200	0	90
Interior Surface	Garage>>Living Area	R-13 Wall			120		

OPAQUE SURFACES – Cathedral Ceilings

01	02	03	04	05		06	07	08	09	10	11
Name	Zone	Type	Orientation	Area (ft^2)	Skylight Area (ft2)	Roof Rise (x in 12)	Roof Pitch	Roof Tilt (deg)	Roof Reflectance	Roof Emmittance	Framing Factor
R-30 Rafterec	Living Area	R-30 Roof	- specify -	640	0	4	0.33	18.43	0.1	0.85	0.07

WINDOWS

01	02	03	04	05	06	07	08	09	10
Name	Type	Surface (Orientation-Azimuth)	Width(ft)	Height (ft)	Multiplier	Area (ft^2)	U-factor	SHGC	Exterior Shading
6	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 2	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 3	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 4	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 5	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 6	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 7	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
6 8	Window	Left Wall (Left-270)	----	----	1	6.0	0.35	0.30	Insect Screen (default)
80	Window	Left Wall (Left-270)	----	----	1	80.0	0.57	0.67	Insect Screen (default)
SGD 40	Window	Right Wall (Right-90)	----	----	1	40.0	0.35	0.30	Insect Screen (default)
SGD 40 2	Window	Right Wall (Right-90)	----	----	1	40.0	0.35	0.30	Insect Screen (default)
Irdr 40	Window	Right Wall (Right-90)	----	----	1	40 0	0.35	0.30	Insect Screen (default)

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Assembly Layers
R-13 Wall	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 13	• *Inside Finish: Gypsum Board* • *Cavity / Frame: R-13 / 2x4* • *Other Side Finish: Gypsum Board*
R-30 Roof	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 24 in. O.C.	R 30	• *Inside Finish: Gypsum Board* • *Cavity / Frame: R-30 / 2x12* • *Roof Deck: Wood Siding/sheathing/decking* • *Roofing: Light Roof (Asphalt Shingle)*
R- 13 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 13	• *Inside Finish: Gypsum Board* • *Cavity / Frame: R-13 / 2x4* • *Exterior Finish: Wood Siding/sheathing/decking*
R-19 Floor w Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x8 @ 16 in. O.C.	R 19	• *Floor Surface: Carpeted* • *Floor Deck: Wood Siding/sheathing/decking* • *Cavity / Frame: R-19 / 2x8*

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04
Quality Insulation Installation (QII)	Quality Installation of Spray Foam Insulation	Building Envelope Air Leakage	ACH @ 50 Pa
Not Required	Not Required	Not Required	---

WATER HEATING SYSTEMS

01	02	03	04	05	06
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)
DHW Sys 1	DHW	Pipe Insulation, All Lines	DHW Heater 1	1	0%

WATER HEATERS

01	02	03	04	05	06	07	08
Name	Heater Element Type	Tank Type	Tank Volume (gal)	Energy Factor or Efficiency	Input Rating	Tank Exterior Insulation R-value	Standby Loss (Fraction)
DHW Heater 1	Propane	Small Instantaneous	0.2	0.8	199000-Btu/hr	0	0

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Point-of Use	Recirculation Control	Central DHW Distribution
DHW Sys 1 - 1/1	N/A	N/A	N/A	N/A	N/A	N/A

HVAC SYSTEMS

01	02	03		04		05	06	07
		Heating System		Cooling System				
Name	System Type	Name	Ducted	Name	Ducted	Distribution System	Fan System	Floor Area Served
Res HVAC1	Other Heat/Cool	Heating Component 1	No	Res HVAC1-cool	No	None	--	640

HVAC - HEATING SYSTEMS

01	02	03
Name	Type	Efficiency
Heating Component 1	Heater - Non-central fuel-fired space heater	---

HVAC - COOLING SYSTEMS

01	02	03	04	05	06	07
		Efficiency				
Name	System Type	EER	SEER	Zonally Controlled	Multi-speed Compressor	HERS Verification
Res HVAC1-cool	NoCooling - No cooling equipment	11.7		No	No	Res HVAC1-cool-hers-cool

HVAC COOLING - HERS VERIFICATION

01	02	03	04	05	06
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge
Res HVAC1-cool-hers-cool	Not Required	----	Not Required	Not Required	Not Required

IAQ (Indoor Air Quality) FANS

01	02	03	04	05	06
Name	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness(%)	HERS Verification
DwellingUnit	28.9	0.25	Default	0	Required

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Ann Wolfe	Documentation Author Signature: *Ann Wolfe*
Company: SolData Energy Consulting	Signature Date: 2014-11-25 11:51:13
Address: 2235 Challenger Way, Suite 103	CEA/HERS Certification Identification (If applicable): N/A
City/State/Zip: Santa Rosa, CA 95407	Phone: 707-545-4440

RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Charles Hildreth	Responsible Designer Signature: *Charles Hildreth*
Company: ADR, Architectural Design & Restoration, Inc.	Date Signed: 2014-11-25 12:03:02
Address: 301 Petaluma Blvd South	License: N/A
City/State/Zip: Petaluma, CA 94952	Phone: 707-778-7232

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

MANDATORY MEASURES SUMMARY: Residential (Page 1 of 3) MF-1R

Project Name	Date
Willow Creek Guest House	*11/25/2014*

NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Form) shall supersede the items marked with an asterisk (*) below. This Mandatory Measures Summary shall be incorporated into the permit documents, and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-1R Form with plans.

Building Envelope Measures:

§110.6(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage.

§110.6(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a).

§110.7: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.

§110.8(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-2R Form.

§110.8(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §110.8(i) when the installation of a Cool Roof is specified on the CF-1R Form.

*§150.0(a): Minimum R-30 (R-19 for Alterations) insulation in wood-frame ceiling or equivalent U-factor.

§150.0(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.

*§150.0(c): Minimum R-13 insulation in 2x4 wood-frame wall (R-19 in 2x6) or equivalent U-factor.

*§150.0(d): Minimum R-19 insulation in raised wood-frame floor or equivalent U-factor.

§150.0(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form.

§150.0(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.

§150.0(l): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.

§150.0(q) Fenestration Products. Fenestration separating conditioned space from unconditioned space or outdoors shall meet the requirements of either Item 1 or 2 below:
1. Fenestration, including skylight products, must have a maximum U-factor of 0.58.
2. The weighted average U-factor of all fenestration, including skylight products, shall not exceed 0.58.

EXCEPTION to Section 150.0(q)1: Up to 10 square feet of fenestration area or 0.5 percent of the Conditioned Floor Area, whichever is greater, is exempt from the maximum U-factor requirement.

§150.0(r) Solar Ready Buildings. Shall meet the requirements of Section 110.10 applicable to the building project.

Fireplaces, Decorative Gas Appliances and Gas Log Measures:

§150.0(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door covering the entire opening of the firebox.

§150.0(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is equipped with a with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device.

§150.0(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

Space Conditioning, Water Heating and Plumbing System Measures:

§110.0-§110.3: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy Commission.

§110.3(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §110.3(c)5.

§110.5: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances (appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.

§150.0(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.

§150.0(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 110.2(c).

§150.0(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped with insulation having an installed thermal resistance of R-12 or greater.

§150.0(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

§150.0(j)2A: All domestic hot water system piping conditions listed below, whether buried or unburied, must be insulated per TABLE 120.3-A.

i. The first 5 feet (1.5 meters) of hot and cold water pipes from the storage tank.
ii. All piping with a nominal diameter of 3/4 inch (19 millimeter) or larger.
iii. All piping associated with a domestic hot water recirculation system regardless of the pipe diameter.
iv. Piping from the heating source to storage tank or between tanks.
v. Piping buried below grade.
vi. All hot water pipes from the heating source to the kitchen fixtures.

§150.0(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 120.3-A.

§150.0(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.

§150.0(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating and Certification Corporation.

§150.0(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-6 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used

§150.0(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

§150.0(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§150.0(m)7: Exhaust fan systems have back draft or automatic dampers.

§150.0(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

§150.0(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

§150.0(m)10: Flexible ducts cannot have porous inner cores.

§150.0(n)1: Systems using gas or propane water heaters, whether tank or on-demand, to serve individual dwelling units shall include all the following components :

A. A 120V electrical receptacle that is within 3 feet from the water heater and accessible to the water heater with no obstructions;
B. A Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed;
C. A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assist,
D. A gas supply line with a capacity of at least 200,000 Btu/hr.

§150.0(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

Pool and Spa Heating Systems and Equipment Measures:

§110.4(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

§110.4(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or built-up connections for future solar heating.

§110.4(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

§110.4(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

§150.0(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150.0(p).

Residential Lighting Measures:

§150.0(k)1A: Installed luminaires shall be classified as high-efficacy or low-efficacy for compliance with Section 150.0(k) in accordance with TABLE 150.0-A or TABLE 150.0-B, as applicable.

§150.0(k)1C: The wattage of permanently installed luminaires shall be determined as specified by §130.0(c).

§150.0(k)1D: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency <= 20 kHz.

§150.0(k)1E: Permanently installed night lights and night lights integral to installed luminaires or exhaust fans shall be rated to consume no more than five watts of power per luminaire or exhaust fan as determined in accordance with Section 130.0(c). Night lights shall not be required to be controlled by vacancy sensors.

§150.0(k)1F: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150.0(k).

§150.0(k)2: All switching devices and controls shall meet the requirements of §150.0(k)2.

§150.0(k)3: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy.
EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft² or 100 watts
for dwelling units larger than 2,500 ft² may be exempt from the 50 percent high efficacy requirement when all
lighting in the kitchen is controlled in accordance with the applicable provisions in Section 150.0(k)2, and is also
controlled by vacancy sensors or dimmers.

§150.0(k)4: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

§150.0(k)5: Lighting installed in bathrooms shall meet the following requirements:
A. A minimum of one high efficacy luminaire shall be installed in each bathroom; and
B. All other lighting installed in each bathroom shall be high efficacy or controlled by vacancy sensors.

§150.0(k)6: Lighting installed in attached and detached garages, laundry rooms, and utility rooms shall be high efficacy luminaires and controlled by vacancy sensors.

§150.0(k)7: Lighting installed in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy, or shall be controlled by either dimmers or vacancy sensors.
EXCEPTION 1: Luminaires in closets less than 70 square feet.
EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site.

§150.0(k)8: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing/rating laboratory; and have a label that certifies the luminaire is airtight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

§150.0(k)9A: For single-family residential buildings, outdoor lighting permanently mounted to a residential building or other buildings on the same lot shall be high efficacy, or may be low efficacy if it meets all of the following requirements:

i. Controlled by a manual ON and OFF switch that does not override to ON the automatic actions of items ii or iii below; and

ii. Controlled by a motion sensor not having an override or bypass switch that disables the motion sensor, or controlled by a motion sensor having a temporary override switch which temporarily bypasses the motion sensing function and automatically reactivates the motion sensor within 6 hours

iii. Controlled by one of the following methods:

a. Photocontrol not having an override or bypass switch that disables the photocontrol; or

b. Astronomical time clock not having an override or bypass switch that disables the astronomical time clock, and which is programmed to automatically turn the outdoor lighting OFF during daylight hours; or

c. Energy management control system which meets all of the following requirements:

At a minimum provides the functionality of an astronomical time clock in accordance with Section 110.9; meets the Installation Certification requirements in Section 130.4; meets the requirements for an EMCS in Section 130.5; does not have an override or bypass switch that allows the luminaire to be always ON; and, is programmed to automatically turn the outdoor lighting OFF during daylight hours.

§150.0(k)9A: For low-rise multi-family residential buildings, outdoor lighting for private patios, entrances, balconies, and porches; and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site shall comply with one of the following requirements:
i. Shall comply with Section 150.0(k)9A; or
ii. Shall comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.

§150.0(k)9: For low-rise residential buildings with four or more dwelling units, outdoor lighting not regulated by Section 150.0(k)9B or Section 150.0(k)9D shall comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.

§150.0(k)9D: Outdoor lighting for residential parking lots and residential carports with a total of eight or more vehicles per site shall comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.

§150.0(k)10: Internally illuminated address signs shall comply with Section 140.8; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130.0(d).

§150.0(k)11: Lighting for residential parking garages for eight or more vehicles shall comply with the applicable requirements for nonresidential garages in Sections 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

§150.0(k)12A. In a low-rise multi-family residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building shall be high efficacy luminaires or controlled by an occupant sensor.

§150.0(k)12B. In a low-rise multi-family residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building shall:

i. Comply with the applicable requirements in Sections 110.9, 130.0, 130.1, 140.6, and 141.0; and

ii. Lighting installed in corridors and stairwells shall be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors shall be capable of turning the light fully On and Off from all designed paths of ingress and egress.