



BLD11-2886

Permit Number

2335

Street Number

WILLOW CREEK RD

Street Name

JEN

Community Code

097-210-006

APN

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Date Signatur of Property Cymbr or Authonized gent LICENSED CONTRACTOR'S DECLARATION I hereby effirm 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 licenses is in full force and effect. Lic. Class Lic. Not 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, it hereby declare that demolition sulmivated by this permit is formed instruction that (II does) (II does not contain asbestos, or that II no demolition is outhorized by this permit is from construction that (II does) (II does not contain asbestos, or that II no demolition is outhorized by this permit is local contained as and efficient under penalty of perjury that the above information is correct. I agree to comby, with all local fortinences and State laws relating to building construction. I hereby authorize representatives of the County of Scripton is offered in the period of the Labert Open John William States and affirm under penalty of perjury that the above information are property for inappeting purposes. If after making the jocaliticate of Exemption for the Worksham is II composity of inappeting purposes. If after making the jocaliticate of Exemption for the Worksham is II composity of the beaven do a copyright with its Worksham is ICompensation law, this permit shall be desired evoked. PERMITTEE SIGNAVIRE JAN 0.3 2012 PERMITTEE SIGNAVIRE JAN 0.3 2012 PERMITT AND RESCURGE MANAGEMENT, DEFA.9TIVIENT GOUNTY OF SCHOCMA.	constructed in its entirety by licensed contractors, itunderstand that a copy of the applicable	Approved by Sme Since ha Khate: 12-6-11
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hereby affirm under penalty of perfury that I and 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. Cless	, I IC/	This permit is limited todays.
Work Authorized: Work Authorized Stripped Stripp	I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9	
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ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT Dietribution: White - File Carriery - Applicant Dius - Assessor Cardistock - Inspector	THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES	

Istribution: White - File Contry - Applicant Blue - Assess

131)	SPECIAL INSPECTION REC	UIRED	☐ YES	NO IF YES, SEE ADDITIONAL SHEET	
<u></u>	INSPECTION RECORD	DATE	NAME	REMARKS	
101)	ROUGH GRADING	-			
103)	FOUNDATION FORMS/SETBACK			(100) 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	FOOTING 4-26-12 R			(103) 4.26-12 Partial N&Ws	ide
	WALLS	 -	 	complete, all the fortings & fier	2 P
106)	UFER GROUND # 4 CAL	4-261	2 AP		
104)	CAISSONS/PIERS				
105)	SLAB				
107)	UNDERGROUND UTILITIES		ļ	•	
110)	MASONRY RETAINING WALLS	·			
113)	FIREPLACE		<u> </u>		
1.10/	FOOTING				
	HEARTH/PROTECTION	-	 		
	THROAT	· -			
114)	CHIMNEY		† · · · · · ·	-	
120)	UNDERFLOOR/UNDERSLAB				
115)	HYDRONICS		RP		
116)	U/F ELECTRICAL	12-A-12	<u> </u>		
117) 118)	U/F MECHANICAL U/F PLUMBING	2/12	RP	CHO HOS AND	
119)	U/F FRAMING	-26-17	100	(140,118) 2 story over living Rm (Par 119) Stage ULF OK 8-9-12 M	1 B-9-12 MU
139)	U/F INSULATION	 		(Par 119) Stage UlF ok 8-9-12 m	ıω
126)	SHEAR WALLS		 	(126) 8.20-12 / muse sheer /	<i>p</i>
	NTERIOR	9-12-16	3 RP -	- Low CAN-CI	-
127)	DIAPHRAGMS				
	100F 9-26-12 MW □ FLOOR		•		
134)	SIDING/SHEATHING		RP		
125)		1-19-17		(
132)	CLOSE-IN ·	12-19-16	- RO	(132, 122,124,128) 9-20-12 Ma	ch my
122) 123)	ROUGH ELECTRICAL ROUGH MECHANICAL			142)O.K. @ Mech. Zm. 9-5-12'-	34
123)	ROUGH PLUMBING	12-19-12	RD-		
128)	ROUGH FRAME		1 1		···
160)	SMOKE DETECTORS	-			
139)	INSULATION				
142)	WALLBOARD PAZ	1-14-13	RD-		
143)	FIREWALLS /			11+ (199) + n	
135)	STUCCO/PLASTER			Note 199 tonal	
	ATH 7-2-13 MW SCRATCH	r			· All
137)	ROOFING		A0	Of to find a office w	rell
130) 162)	TUB/SHOWER PAN FIRE DAMPERS/DOORS	-29-13	R	South Copping	e l
164)	SUSPENDED CEILING				
	OUGH ELEC.	CH		(153) 8-28-12 Gas line between tan	<u>k</u>
165)	EXITING - RAMPS/STAIRS	<u> </u>	 		40 8
163)	HANDRAILS/GUARDRAILS			energy.RD	
	CORRIDORS/DOORS				
166)	ACCESSIBILITY COMPLIANCE			650) SUSMP INSPECTION	
144)	WATER TANKS			651) NPDES EROSION COMPLIANCE	
	LAB WALLS			652) NPDES SEDIMENT COMPLIANCE	
170) 171)	TEMPORARY OCCUPANCY TEMPORARY ELECTRICAL			653) NPDES DOCS/SWPPP	T
172)	TEMPORARY GAS			FIRE INSPECTION REQUIRED DATE Or Yes Or No	NAME
174)	ELECTRIC METER AUTHORIZATION	,, <u>,</u> ,		759) KNOX BOX	
152)	PANEL BOARDS/SERVICE			760) PROPANE TANK HOLD DOWNS	
189)	SEPTIC ELECTRIC FINAL	7-2-13	mw	770) SPRINKLER FINAL	 - -
175)	GAS METER AUTHORIZATION			771) ABOVEGROUND HYDROSTATIC	
153)	GAS PRESSURE TESTALE TITLE	013	2/0	772) UNDERGROUND HYDROSTATIC	
400	HOUSE -14-13 NARD	<i>u u</i>	1	773) UNDERGROUND FLUSH	
190)	MANUF. HOME FOUNDATION			774) THRUST BLOCKS	
191)	MANUF. HOME INSTALLATION CONTINUITY			775) PIPE WELD	
	STAIRS/SKIRTS			776) HYDRANTS/APPLIANCES 777) PUMP ACCEPTANCE	PERMIT
	RIDGE BOLTING		-	778) WATER SUPPLY/TANK	
193)	MANUF. HOME COND. FINAL			779) ALARM SYSTEM	*
	SWIMMING POOLS			780) HOOD & DUCT SYSTEM	
194)	PRE-GUNITE			781) ABOVEGROUND TANK/DISPENSER	
195)	PRE-DECK			198) FIRE FINAL	<u></u> %
196)	PRE-PLASTER/FENCE			CLEARANCES:	\
197)	VINYL/FIBERGLASS POOL EXCAVATION			FIRE	N
102)	GRADING FINAL			HEALTH DEPARTMENT	
	ELECTRICAL FINAL MECHANICAL FINAL	1912	RO-	ZONING SANITATION	<u>8</u> 8
	PLUMBING FINAL	• 10	- K	SAINHAHUN	
	FINAL Lee nite.	29-13	M	PLAN RETENTION R	EQUIRED?
<i></i>	OCCUPANCY (OK TO OCCUPY)	,,,,,,,	'-'		□ No
main Old	2 000 arts Day 04/45/04	L.			

SITE EVALUATION SHEET

Address 2335 Willow Creek Rd

PC# BUDIL - 2886

Inspector	REX	PETERSON
Inspector	KEX	PETELLOW

Date 8-29-11

The proposed construction appears to be located in: 697-210-006 [] Portions of property in flood zone but project site not in flood zone. [] FIRM Flood Zone (ASFH) BFE = ft. NAVD. Flood Hazard: Lowest finish floor at 12 above BFE = ___ ft. NAVD. [] Building is in FIRM Floodway. [] Main building on site is Post-FIRM. [] Design for moving water is recommended [] Sensitive drainage area, review by drainage section recommended. Section ____ [] Appears to be a "substantial improvement" (40%), therefore flood Ft/sec Section ___ regulations apply. [] Area subject to flooding (not on adopted FIRM). [] Located inside the Laguna de Santa Rosa below elevation of 75 ft (Ordinance #4906). [] Project is on flood zone major damage list. [] Flood Prone Urban Area defined by Ordinance #4906. [] Area without recommended setback from stream (Drainage Division [] Area of suspected slides, slumps, earth flow, or soil creep. (a) Georecommendations). technical: [] Area of previous fill placement. (g) [] Area of high moisture content in soil. (f) [] Area of suspected expansive soil. (c) [] Area subject to high erosion (water or wind). [] Area without sufficient slope setback as set forth in UBC [] Area of soft soil due to past deep ripping or cultivation below minimum Section 1806. (b) foundation depth. (h) [] Area subject to possible liquefaction. (e) [] Area within 1000 feet of a solid waste disposal site. [] Area of suspected soft, compressible, or organic soil with low [] Non exempt structure per tech bulletin B-28. bearing capacity. Soils Investigation: Included [] Available I l Not Required Required [] [] Geologic report required (see CGS Publication 42). [] Located in the Alquist-Priolo Special Studies Zone. Geologic: Seismic Design Category (SDC) [] Pictures available in S Drive Seismic: [] Indications of existing substandard conditions that are not addressed by the [] Building addition will affect the required light and ventilation General: proposed construction. in an existing room. [] Indications of past work done without a permit. [] Existing electric meter must be replaced. [] Grading permit required for road, driveway, or site preparation. [] Existing gas meter must be replaced. [] Site is likely to be acceptable for conventional construction methods. Slope is Exposure "B" Exposure "D" N.S.C. Air Pollution Control District.......[] Yes [] No Wind: acreage. . 246. Soils Het, HKF, H.F. JOE, KWF, YOB Landolde - Few, Mostly, Superfixual. D- Moderate, Very High Very Low. Old large farmhouse, level lot area, major rom 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 bullding 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.

				Unknown	1.	. Does the project include cuts or fills exceeding 50 cubic yards of soil?*
ū	Yes	: 🗀 No	<u> </u>	Unknown	2.	Does the project include a cut greater than 2 feet in depth?*
۵	Yes	≯ONo		Unknown	3.	Does the project create a cut slope greater than 5 feet in height and steeper than 2:1 (H:V)?*
	Yes	Æ No	Ö	Unknown	4.	Does the project include a fill greater than 3 feet in depth?
ū	Yes	P ≪No	0	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%?
٥	Yes	⋈ No	ū	Unknown	6.	Does the project include flll greater than 1 foot in depth and intended to support a structure or surcharge?
۵	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.
٥	Yes	No No		Unknown		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)?

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	rgrading permit is required.
Church theoners	2335 WILLOW CHECK
Applicant Printed Name	Property Address
Applicant Signature	<u>097-210-006</u> Assessor's Parcel Number(s)
7/19/1)	86011-2886
Finte	Building Permit Number(s)

^{*} 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.

Project Name Matthews-Co Project Address 2335 Willow FIELD IN Yes Yes INSULATION Constructi Wall Woo Floor Roof Woo Wall Door Floor Woo Wall Solid	No Special F ON on Type d Framed d Framed w/o Crawl d Framed Attic d Framed que Door d Framed w/Crawl S I Unit Masonry ow Unit Masonry	Jenner ENERGY easures If eatures If Space	Cali Cali Cali CYes, Yes, Ves, None R-30 R-19 None R-19 None R-19 None None None None	fornia End A Clima CKLI A CF-4 See Pa	☑ Sing Mulargy Clima ate Zon ST IR must art 2 of Area (ft²) 330 295 32 3,454 116 769 298 70	ti Family 20 te Zone	(Part 1 of 5) Addition Alone Existing+ Addition/Alteration Cond. Floor Area 4,614 Addition 1,380 Addition 1	1 .# of Stori
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ront (S) eft (W) eft (NW) eight (E) kylight	165.6	0.390	0.37			none	Bug Screen	Existina
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ight (E) kylight	9.0	0.390	0.37	none		none	Bug Screen	New
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kyngrit	70.0	0.770	0.75	710172		none	TOTAL TOTAL	
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	l Furnace	80% AFUE		Cooling		13.0 SEER		New
1 Boiler				Cooling		13.0 SEER	*	New
	FRIBUTION						Duct	••
ocation		ating	Co	oling	Duc	t Location		Status
ew First/Main Fl			Duct		Basem		6.0	New
ew Upper Floor			Duct			Ceiling Ins, vent		New
ew Radiant Syst			Duct		Basem		6.0	New
VATER HE								
ity. Type		Gallo	ons	Min.	Eff	Distributi	ion	Status
1 Instant		0		0.66		No Pipe Insula		Altered
1 instant		0	·	0.66		No Pipe Insula		New

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Project Name	IIIIAIIQL	CERTIFIC	_	Reside					of 5)	CF-1F
•	Cardamone	Docidonas	Bu	uilding Type	☑ Sing	gle Family ti Family	☐ Addition A ☑ Existing+		n/Alteration	Date 7/13/201
Project Addres		Residence	C	alifornia Ener		•	otal Cond, Floor		Addition	
		ad Jenner		CA Clima			4,614		1,380	3
FIELD IN	NSPECT	ON ENER	GY CH	ECKLIS	ST					
☐ Yes ☑	No HEF	S Measures	If Yes	, A CF-4	R mus	st be pro	vided per	Part 2	2 of 5 of t	his form.
☑ Yes □	No Spec	cial Features	If Yes	s. see Pa	rt 2 of	5 of this	form for c	letails	3 .	
INSULAT		J.G. 1 JG.G. 30			Area	Spec			·	
Construc	=	a	Ca		(ft^2)	-	res (see	Part 2	2 of 5)	Status
	heated Slab-on		Non		869	Perim = 1:	-			New
	ood Framed Raf		R-3		2,080					New
Floor Wo	ood Framed w/o	Crawl Space	R-1.	9	173		 			New
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	• •	Min.	Eff C	ooling		Min. E	≣ff	Ther	mostat	Status
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Oty. Head	STRIBUTION	ON Heating	C	ooling		t Locati	on	D	uct	Status
Oty. Head	STRIBUTION	ON Heating	C	ooling Min. E	Eff	t Locati	on	D	uct	Status

PERFORMANCE CERTIFICATE:	Reside	ntial	(Part 2 of 5)	CF-1R
Project Name Matthews-Cardamone Residence	Bullding Type	☑ Single Family ☐ Multi Family	☐ Addition Alone ☐ Existing+ Addition/Alteration	Date 7/13/2011
SPECIAL FEATURES INSPECTION The enforcement agency should pay special attention justification and documentation, and special verification determines the adequacy of the justification, and may the special justification and documentation submitted.	n to the items on to be used reject a build	specified in this che with the performan ling or design that o	nce approach. The enforcement ac otherwise complies based on the a	gency
The HVAC System Lennox 13GCSA-36-090-230 does not in	iclude a cooling	•	•	
The HVAC System Lennox 13GCSA-36-090-230 does not in	clude a cooling	system, field verifica	ition is not necessary.	····
The HVAC System Radiant Floor does not include a cooling	-		•	
The HVAC System New Radiant System is a Hydronic System 1R.	m that uses a D	edicated Boiler for S	pace Heating. System details are on i	Part 5 of the CF-
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the control of the co		······································		
HERS REQUIRED VERIFICATION Items in this section require field testing and/or vicompleted CF-4R form for each of the measures	erification by			eceive a
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EnergyPro 5.1 by EnergySoft

User Number: 2503

	TIMATOR	CERTIF	ICA I E:	Residen	ıtıaı		(Part 3 of 5)	CF-1F
Project Name				Building Type	☑ Single Family		lition Alone	Date
Matthews	-Cardamone F	Residence			☐ Multi Family	☑ Exis	sting+ Addition/Alteration	7/13/20
ANNUALI	ENERGY USE							
TDV (L		andard P	roposed	Margin	,			
(1	:Btu/ft²-yr)							
Space Hea		98.01	64.31	33,71				
Space Cod	oling	2.53	0.42	2.11				
Fans		11.66	6.97	4.69				
Domestic I	Hot Water	11.56	7,71	3.85				
Pumps		0.00	0.00	0.00				
	Totals	123.76	79.41	44.35				
	etter Than Stai			35.8 %			·	
В	UILDING	COMP	LIES .	NO HE	RS VERIFI	CAT	TON REQUIR	ED
								nestration
	ont Orientation:			?02 deg	Ext. Walls/Re	oof	Wall Area	Area
	Dwelling Units:			. 0 0	(S)		1,492	184
	ible at Site:			ral Gas	(W)		1,004	96
Raised Flo	or Area:			237	(N)		1,471	291
Slab on Gr	ade Area:		8	369	(E)		1,093	222
Average C	eiling Height:		:	9.0	Roof		2,156	44
enestratio	n Average L	J-Factor:	O	9.39			TOTAL:	836
	Average S	HGC:	O	.37	Fe	enestra	tion/CFA Ratio:	18.1 %
						 		
This certific		ce lists the	building fe		pecifications needs	ded		
his certific comply v		ice lists the	building fe Iministrativ	e Regulations		ded		
his certific o comply v Efficiency S	eate of complian with Title 24, Pa Standards of the entation author	ce lists the rts 1 the Ac California	building fe Iministrativ Code of R	e Regulations egulations.			mplete.	
his certific o comply v Efficiency S	eate of complian with Title 24, Pa Standards of the mentation author	ce lists the rts 1 the Ac California hereby cer	building fe Iministrativ Code of R	e Regulations egulations.	and Part 6 the		mplete.	
This certific o comply v Efficiency S The docum	eate of complian with Title 24, Pa Standards of the entation author	ce lists the rts 1 the Ac California hereby cer	building fe Iministrativ Code of R	e Regulations egulations.	and Part 6 the		mplete.	una partito
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his certific comply v Efficiency S he docum Documer Company ddress	eate of compliant vith Title 24, Pa Standards of the sentation author ntation Auth Griffin Energy Con 23 Webster Street Petaluma, CA 949	ce lists the rts 1 the Ace California hereby cer or npliance	building fe Iministrativ Code of R tifies that t	e Regulations egulations. he documenta Name P. Griffin Phone (707)778	and Part 6 the ation is accurate	and co	J M	oate oat
This certific to comply verificiency Services Se	cate of compliant with Title 24, Pa Standards of the sentation author ntation Auth Griffin Energy Con 23 Webster Street Petaluma, CA 949 and with overall tion documents ner calculations of verification of	ce lists the rts 1 the Ace California hereby cer or npliance 52 design respis consiste submitted refrigerant	building fe Iministrativ Code of R tifies that t consibility had with the with this pe charge, in	ne Regulations. he documenta Name P. Griffin Phone (707)778 nereby certifies other complia ermit application	ation is accurate -Young 1-7818 s that the proposunce forms and won, and recogniz	and co	I BAT	ions, and t design,
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			ACE L													177.	
Surf			U-			Insulatio							Joint Ap	oendix			
Туг	oe .	Area			Exterio	r Frame	Inter	ior Fram					4			ation/Co	_
Vall .		163	0.356		. 	+	+		2		0 Existir 0 Remo					ng Main F	
Door Nall		20 39	0.500 0.356		 		┥──		2		0 Remo					ng Main Fi ng Main Fi	
Nall		148	0.356		+	 			11		Q Remo					ng Main F	
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loor		295	0.238		ļ	 	<u> </u>			0 18			.2-A1			ng Main F	
loor		365 32	0.238 0.031								0 Remo 0 New	_	.2-A1 .1-A20			ng Main F on Main F	
Roof Vall		186	0.037		1				2		0 New	_	.1-A20			on Main F	
Vall		103	0.074		 				11	_	0 New	_	.1-A5			on Main F	
Door		34	0.500	None					11	2 9	0 New	4.5	.1-A4		Additi	on Main F	loor/Fi
Vall		213	0.074			<u> </u>	<u> </u>		20		0 New		.1-A5			on Main F	
Door	<u> </u>	56	0.500		-				20	\rightarrow	0 New	-	.1-A4		$\overline{}$	on Main F	
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ID	Тур		Area	U-Fa			GC²	Azm	Sta	tue	G	azino	Туре	7	Locati	on/Comr	nonte
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2	Windov		91.0	0.390		0.37	NFRC		2 New		lew Doul					ain Floor	
3	Windov	v	67.5	0.550	Default	0.67	Defau	lt 1:	2 Rem	oved L	louble Non Metal Clear				Existing Main Floor Are		
4	Windov	v	9.5		Default	0.67	Defau				ouble N				Existing Main Floor Area Existing Main Floor Area		
5	Windov		9.5		Default		Defau				Double No						
6	Windov		8.7	0.390			NFRC		2 New		lew Doul				_	ain Floor/	
7	Windov Windov			0.390			NFRC NFRC				New Double Non Metal New Double Non Metal				Addition Main Floor/Furna Addition Main Floor/Furna		
9	Windov		9.0	0.390			NFRC				lew Doul					ain Floor/	
10	Windov		9.0	0.390			NFRC		7 New	^	lew Doul	le Noi	Metal	Ac	dition M	ain Floor/	Furnac
11	Windov	v	54.4	0.390			NFRC		2 New		lew Doul				w Basei		
12	Windov	—⊢	40.0	0.390			NFRC				lew Doul				w Basei		
13 14	Windov		8.7 67.3	0.390 1.190	NFRC Default		NFRC Defau		2 New 2 Rem		lew Doul Sinale No	_			w Baser	ment Removed	,
15	Windov		12.5		Default		Defau				Single No					Removed	
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Wall	ÞØ	20		R-19	y LAIGH	21 1 1 1	0 111101	ioi i rairie	33		_+_		4.3,1-A5				Location/Comment Addition Main Floor/Fu			
Floor		769	0.037	R-19						18				1-A4		_	Addition Main Floor/Fur			
Wall		365		R-19		_		<u> </u>	2.				4.3.1-A5				New Basement			
Wall Wall		102 142		R-19 None	-	+ -	-		11,					4.3.1-A5 4.3.6-D5			New Basement			
Wall		201		R-19					202	+	_+_		4.3.6-D5 4.3.1-A5				New Basement New Basement			·
Wall		140		None					20.				4.3.			٨	lew E	Baseme	ent	
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18 19	Skylid		16.0		Default		Defaul		New						_			Floor		
20	Window 78.4 0			NFRC		NFRC		New	$\overline{}$		ouble Metal Clear ow Double Non Metal				New Upper Floor New Upper Floor					
21	Window 80.0 0.3			NFRC	0.37		112			New Double Non Metal		New Upper Floor								
22	Window 105.4 0.3			NFRC NFRC	0.37			New		New Double Non Metal New Double Non Metal				New Upper Floor New Upper Floor						
23 24	Wind Skylid		26.7 16.0		Default	0.37			New				lew Upper Floor pper Floor Removed							
25	Skylic	*	12.0		Default		Defaul		Remo						pper Floor Removed					
26	Wind		37.9		Default	0.67	+	_+	Remo		ed Double Non Metal Clear Up			pper Floor Removed						
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30	Wind	OW	101.5	0.390	NFRC	0.37	NFRC	112	+			Double I								
31	Wind	OW	17.5	0.390	NFRC	0.37	NFRC							Addition Main FI/Radiant Zon Addition Main FI/Radiant Zon						
	1) U	-Factor 1	vne:	116-A	⊸ Detauti	Table fro	om Stan	 dards, NFF	 C = a	heled V	alue									
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Wall Wall	191	0.356 0.356		 	-	┼	-	202		Remove					r Floor Re r Floor Re			
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Wall	137	0.074						22		New	4.3.	1-A5				FVRadiant A		
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MANDATORY MEASURES SUMMARY: Residential (Page 1 of 3) MF-1R Project Name Matthews-Cardamone Residence Date 7/13/2011

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:

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

§116(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).

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

§1.18(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form.

§118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §118(i) when the installation of a Cool Roof is specified on the CF-1R Form.

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

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

*§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.

*§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.

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

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

§150(I): 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.

Fireplaces, Decorative Gas Appliances and Gas Log Measures:

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

§150(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(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-§113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy Commission.

§113(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 §113(c)5.

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

§150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).

§150(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(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(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes are insulated per Standards Table 150-B.

§150(j)2: Cooling system piping (suction, chilled water, or brine lines), and piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.

§150(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 123-A.

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

§150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in conditioned space.

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

MANDATORY MEASURES SUMMARY: Residential	(Page 2 of 3)	MF-1R
Project Name		Date
Matthews-Cardamone Residence		7/13/2011

§150(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-4.2 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(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(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(m)7: Exhaust fan systems have back draft or automatic dampers.

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

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

§150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 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:

§114(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.

§114(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.

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

§114(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(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150(p).

Residential Lighting Measures:

§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.

§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §130(d).

§150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than

§150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder; OR shall be rated to consume no more than five watts of power as determined by §130(d), and shall not contain a medium screw-base socket.

§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150(k).

§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.

§150(k)8: A minimum of 50 percent of the total rated waitage 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 ftz or 100 watts for dwelling units larger than 2,500 ftz may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaries in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

§150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

MANDATORY MEASURES SUMMARY: Residential	(Page 3 of 3)	MF-1R
Project Name	•	Date
Matthews-Cardamone Residence		7/13/2011

§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.

EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of §119.

EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupancy sensor.

§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires. EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of §119, or by a manual-on occupant sensor that complies with the applicable requirements of §119. EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site is not required to comply with §150(k)11.

§150(k)12: 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 then 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(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches, which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy. EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocontrol not having an override or bypass switch that disables the photocontrol; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on EXCEPTION 2: Outdoor luminaires used to comply with Exception1 to §150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours. EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130(d).

§150(k)15: Lighting for parking lots and carports with a total of for 8 or more vehicles per site shall comply with the applicable requirements in Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 146.

§150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires. EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of §119.

EnergyPro 5.1 by EnergySoft

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Page 15 of 18

WHITCHURCH ENGINEERING Building Design

Civil & Structural Engineering 610 9th STREET

FORTUNA, CALIFORNIA 95540 (707) 725-6926 FAX (707) 725-2959

JOPHESE ATTACHMENTS AND	SURKSIDENCE
SHEETING SHEETING	NS. 41
CALCULATEDRY TO MOTE THE	DATE 6-7-11
CHECKED BY	IN ADR 1101.1

ENGINEERING STRUCTURAMANAGEMENT BEPARTMENT

REQUIRED BY 2010 CALLEDONA

CODE

DESIGN FOR CONVENTIONAL CONSTRUCTION

AS ALLOWED:

R301.1 Application. Buildings and structures, and all parts thereof, shall be constructed to safely support all loads, including dead loads, live loads, roof loads, flood loads, snow loads, wind loads and seismic loads as prescribed by this code. The construction of buildings and structures in accordance with the provisions of this code shall result in a system that provides a complete load path that meets all requirements for the transfer of all loads from their point of origin through the load-resisting elements to the foundation. Buildings and structures constructed as prescribed by this code are deemed to comply with the requirements of this section.

LATERAL ANALYSIS - 1) SEISMIC

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0.2 1.338 (SDs, Site Class D)

1.0 1.072 (SD1, Site Class D)

Conterminous 48 States

2003 NEHRP Seismic Design Provisions

Latitude = 38.4373

Longitude = -123.0971

Design Spectral Response Accelerations SDs and SD1

SDs = $2/3 \times SMs$ and SD1 = $2/3 \times SM1$

Site Class D - Fa = 1.0 ,Fv = 1.5

PER ASCE 7-05 5ET 12.8.1.3: SOS = 3/5 FR Ss; 3/5 x 1.0 x 1.5= 1.0:

V = SDS I W = 1.0 x 1.0 W = . 154 W

BASE SHEAR : 0.7 x .154 W = 0.108 W (LOAD COMBO 8)

ALTERNATIVELY:

R301.1.3 Engineered design. When a building of otherwise conventional construction contains structural elements exceeding the limits of Section R301 or otherwise not conforming to this code, these elements shall be designed in accordance with accepted engineering practice. The extent of such design need only demonstrate compliance of nonconventional elements with other applicable provisions and shall be compatible with the performance of the conventional framed system. Engineered design in accordance with the California Building Code is permitted for all buildings and structures, and parts thereof, included in the scope of this code.

1604.4 Analysis.

Any system or method of construction to be used shall be based on a rational analysis in accordance with well-established principles of mechanics. Such analysis shall result in a system that provides a complete load path capable of transferring loads from their point of origin to the load-resisting elements.

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Hydraulic Calculations for

Project: Matthews Residence

Drawing no.: FP-2

Date: 7/20/2012

COUNTY OF SONOMA

Fire & Emergency Services Dept.

Plan Check Approved

Design

Remote area number: 1

Remote area location: Master bedroom
Occupancy classification: NFPA 13D
Density: 18 GPM/spnkir

Area of application: 2 Head Coverage per sprinkler: 16 x 16

Type of sprinklers calculated: Reliable RFC 43 reliable concealed pendent

No. of sprinklers calculated: 1 In rack demand: n/a

Hose streams: n/a outside + 5 GPM inside

Total water required (including hose streams): 41.0 gpm at 54.32 psi [5.68 psi safety margin]

Total water required at base of system riser: 36.0 gpm at 53.87 psi

Type of system: wet pipe

Volume of dry or preaction system:

Water Supply Information

Date: Location: Source:

Contractor: McCoy Fire Protection

131 Stony Circle Santa Rosa, CA. 95401

Under contract with: Earthtone Construction

Name of designer: Dale Homer

Authority having jurisdiction: Sonoma County Fire District

Notes

Calculation Revised 7/20/12 at request of AHJ. Changed linear feet of pipe between node 4-3 and 3-2

Actual Location of booster pump and storage tanks have not been determined at this time. Calcs include a generic length of 2" pipe to allow for pump in calcs. Builder to provide adequate pressure at BOR.

Hydraulic Calculations for

Project: Matthews Residence

2335 Willow Creek

Jenner, Ca

Drawing no.: FP-1

Date: 6/11/2012

Design

Remote area number: 1

Remote area location: Master bedroom Occupancy classification: NFPA 13D

Density: 17 GPM/Sprinkler

Area of application: 2 Head

Coverage per sprinkler 16 x 16

Type of sprinklers calculated: Tyco LFII 4.9K concealed pendent

No. of sprinklers calculated: 1

In rack demand: n/a

Hose streams: n/a outside + 5 psi inside

Total water required (including hose streams): 39.0 gpm at 50.86 psi [9.14 psi safety margin]

Total water required at base of system riser: 34.0 gpm at 50.45 psi

Type of system: wet pipe

Volume of dry or preaction system:

Water Supply Information

Date: Location: Source:

Contractor: McCoy Fire Protection

131 Stony Circle

Santa Rosa, CA. 95401

Under contract with: Earthtone Construction

Name of designer: Dale Homer

Authority having jurisdiction: County of Sonoma

Notes