

-4 Ъ

Permit Number

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Street Number

Iox Rd

Street Name

00

Community Code

085 3-250 U

APN

PRMD County of Sonoma

S.C. Repro 3/10

COUNTY OF SONOMA - PERMIT AND 2550 Ventura Avenue, Santa Rosa, CA 9	5403 (707) 565-1900 FAX	(707) 565-1103
Your Name: Stevy Borchaudt		Date Applied: 9/5/13
INFORMATION WITHIN HEAVY LI	NE TO BE COMPLETED BY AP	PLICANT
	RMATION - PRINT CLEARLY	
Site Address: 3349 Joh Rd	City: Occidental	ZIP:
Cross-Street: Bithwy Ref. APN:0	73-250-085 Project Phone #: ()	Project Fax #: ()
Directions:	Email address:	Unit Lot # #
Describe Project:	Living Area	Contract Price:
Foundation Repoir - 148	Garage	
OWNER NAME AND ADDRESS	APPLICANT	NAME AND ADDRESS
Name: Dawid Britton	Name: Church	aveheralt
Mailing Address: 3349 Voc Rd	Malling Address: 2406 2	
City: Or idente State: CA ZIP:	City: SIZ	State: CA ZIP: 9540 3
Day Ph: () Fax: ()	Day Ph: () U81-9273	Fax: ()
CONTRACTOR INFORMATION		RCHITECT, ÉNGINEER, ETC.)
Company Name: Bouch aret Imst.	Name:	
Address: 2406 Zunto cf.	Address:	
City: FR State: CA ZIP9540 3	City:	State: ZIP:
Day Ph: () USI- G273 Fax: ()	Day Ph: ()	Fax: ()
WORKER'S COMPENSATION DECLARATION	License No:	Exp. Date:
I hereby affirm under penalty of perjury one of the following declarations:	CONSTRUCTION	
provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.	I hereby affirm under penalty of perjury that the	LENDING DECLARATION
V 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	the work for which this permit is issued. (Sec. 3 Lenders Name	uər, uv. u.j.
insurance carrier and policy number are:	Lenders Address	
Carrier New York Marke Litz		
No. (This section need not be completed if the permit is for one hundred dollars (\$100) or less).		PARTMENT USE 2100
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 any subject to the worker's compensation laws of California.	Zoning Existing Use/Structures	Acres Acres Acres
agree that if I should become subject to the worker's compansation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.	Proposed Use/Structures	MARS Shallot Book
Exp. Date: 10/13 Applicant:	NOTE: Fire Safe Standards require all pan unless mitigated. Diffugation Rec	
WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND	Approval for Permit Issuance:	Approver for Occupancy:
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 3708 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.	Ву:	By:
OWNER-BUILDER DECLARATION	- Date:	Date: 9-5-13
I hereby affirm under penalty of perjury that 1 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	Conditions ND INDRE	the in too too int,
permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also	De ore here	ht of ses.
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 (Chepter 9 (commencing with Section 7000) of	4-800 Danna 4 Ke	pare on 14
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 aubjects the	Sewer Connection: 🔲 Available	Grees Paid
applicant to a civil penalty of not more than five hundred dollars (\$500).):	Approved by:	Date:
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)	Road Encroachment:	ld
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	Approved by:	- 9/5/13
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	Septic System Perfit/Ofearance#	36013-0499
burden of proving that he or she did not build or improve for the purpose of sale.).		10- QQ/10/2012
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	Approved by:	Date: 0-110/2015
with a contractor(s) licensed pursuant to the Contractors License Law.).		00 Year Flood Elevation:
reason	Site Review <u>SEV 13-0477</u>	
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	Drainage Review: Cost 200	mon Date: 9/5/13
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	Fire:	n.l
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.leginfo.ca.gov/calaw.html.	Approved by:	
www.worris.com.org.com.org.com.org.com.org.com.org.com.org.com.com.com.com.com.com.com.com.com.com	Code Enforcement Violation 🛛 Yes	No Violation #
Date Signature of Property Owner or Authorized Agent	This permit is limited to days.	
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 B Lic. No. 4 L/8 78 3	Work Authorized:	
	- new love the un	
Exp. Date 11 1 Contraport		
ASBESTOS_DECLARATION Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is	Plans Approved No Plans Subject to Field Inspection	Post FIRM Alquist Pricko Report Available Pre FIRM Geotechnicst report Available
required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (CI does) (CI does not)	Plancheck Date:	Type of Occupancy No. of No. of
contain asbestos, or that no demolition is authorized by this permit.	9 10 13	Construction R3 Stories Barrooms
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		Auto. Fire No of Units Certificate of Occupancy
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	ITTI GLIBAKO	
Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith		Space for Permit Fee
comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed.eevol.ed.		
		111 09 2 1 9
2406 Zunio A SR 9540 3		T AND RESOURCE
	13 1.000000	MUNT DELARTMENT
ADDRESS CITY S	E I VIANAGE	TY OF CONOMA

131)	SPECIAL INSPECTION REQU		T YES	□ NO IF YES, SEE ADDITIONAL SHEET
:	INSPECTION RECORD	DATE	NAME	REMARKS
101)	ROUGH GRADING	Alaha		(126) all shear except braced well - Need doc for needing
103)	FOUNDATION FORMS/SETBACK	9/17/13		
-	FOOTING	, .		
·	WALLS	. 1 .		
106)	UFER GROUND #	9/17/13	(A)	
104)	CAISSONS/PIERS			
105)*				
107)	UNDERGROUND UTILITIES MASONRY			
109)	RETAINING WALLS		·	· · · · · · · · · · · · · · · · · · ·
113)	FIREPLACE	· · · · · · · · · · · · · · · · · · ·		
	FOOTING			
	HEARTH/PROTECTION			······
11.4	THROAT			
. 114) 120)	CHIMNEY UNDERFLOOR/UNDERSLAB	-2-8-14	40	· · · · · · · · · · · · · · · · · · ·
115)	HYDRONICS	-2-0-14	<u> </u>	
116)	U/F ELECTRICAL			
117)	U/F MECHANICAL			
118)	U/F PLUMBING			
119)	U/F FRAMING			
139) 126)	U/F INSULATION SHEAR WALLS	0-21 10	1.10	
	NTERIOR DEXTERIOR	0-31-13	WK_	
127)	DIAPHRAGMS			
	OOF 0/28/13 M D FLOOR		• • • • • • • • • • • • • • • • • • •	
134)	SIDING/SHÉATHING			
125)	HOLD DOWNS		-0-D-	
132)		2-28-1	1 AT	
122)	ROUGH ELECTRICAL			······
123)	ROUGH PLUMBING	2-28-14	RP	
128)	ROUGH FRAME		J¥.↓	
160)	SMOKE DETECTORS			
139)	INSULATION			
142)				
143) 135)	FIREWALLS STUCCO/PLASTER			
	ATH SCRATCH			
137)	ROOFING			
130)	TUB/SHOWER PAN 5	5 14	BT -	- pustone See CN 4 23 14BT
162)	FIRE DAMPERS/DOORS	l		
164)				
165)	COUGH ELEC. D ROUGH ME			
163)	HANDRAILS/GUARDRAILS			
	CORRIDORS/DOORS		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
166)	ACCESSIBILITY COMPLIANCE			650) SUSMP INSPECTION
144)	WATER TANKS			651) NPDES EROSION COMPLIANCE
	SLAB UWALLS			652) NPDES SEDIMENT COMPLIANCE
170) 171)	TEMPORARY OCCUPANCY TEMPORARY ELECTRICAL			653) NPDES DOCS/SWPPP FIRE INSPECTION REQUIRED DATE NAME
171)	TEMPORARY ELECTRICAL			FIRE INSPECTION REQUIRED DATE NAME I Yes No
174)	ELECTRIC METER AUTHORIZATION	4 1		759) KNOX BOX
152)	PANEL BOARDS/SERVICE	11/5/13	(va	760) PROPANE TANK HOLD DOWNS
189)	SEPTIC ELECTRIC FINAL			770) SPRINKLER FINAL
175)	GAS METER AUTHORIZATION			771) ABOVEGROUND HYDROSTATIC
153)	GAS PRESSURE TEST HOUSE 7/1495 YARD 10-31-15W	K		772) UNDERGROUND HYDROSTATIC 773) UNDERGROUND FLUSH
190)	MANUF. HOME FOUNDATION			773) UNDERGROUND FLUSH 774) THRUST BLOCKS
190)	MANUF. HOME INSTALLATION		1	
	CONTINUITY			775) PIPE WELD P 776) HYDRANTS/APPLIANCES P 777) PUMP ACCEPTANCE P
	STAIRS/SKIRTS			777) PUMP ACCEPTANCE
	RIDGE BOLTING			778) WATER SUPPLY/TANK
193)	MANUF. HOME COND. FINAL			779) ALARM SYSTEM
1041	SWIMMING POOLS PRE-GUNITE			780) HOOD & DUCT SYSTEM 781) ABOVEGROUND TANK/DISPENSER
194) 195)	PRE-GUNITE PRE-DECK			198) FIRE FINAL
196)	PRE-PLASTER/FENCE			CLEARANCES:
197)	VINYL/FIBERGLASS POOL EXCAVATION			FIRE Local County
102)	GRADING FINAL			HEALTH DEPARTMENT
176)	ELECTRICAL FINAL		~	ZONING
177)	MECHANICAL FINAL		-/ }	SANITATION
178) 199)	PLUMBING FINAL	nda	By	PLAN RETENTION REQUIRED?
199		771	110-	

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sennis CIS-008.cdr Rev. 04/15/04

PERI	FORMAI	NCE CE	RTIFICAT	<u>E:</u> F	Reside	ential		(Part 1	of 5)	CF-1F
Project N				Buil	ding Type		gle Family	Addition	Alone		Date
Brown Project A	Residence				damala Éras		+			n/Alteration	9/17/201
	oy Road (Occidental			fomia Ene A Clime			otal Cond. Fl 2,00		Addition 457	# of Stori 1
			ENERGY				<u> </u>				
							et ha nra	uidad pa	r Dort		sia farm
			asures If				-	-			lis form.
		Special F	eatures If	Yes,	see Pa	art 2 o	5 of this	form for	detail	s.	·
	ATION	_				Area	Speci				
Const	truction	Туре		Ca	<u>/ity</u>	(fť)	Featu	ires (se	e Part	2 of 5)	Status
loor	Wood Fram	ed w/Crawl Sp	809	R-19		971					Altered
Vall	Wood Fram	ed		R-13		1,336			·		Altered
Roof	Wood Fram	ed Attic	· · · · · · · · · · · · · · · · · · ·	R-30	· ·	370					Altered
loor	Wood Fram	ed w/Crawl Sp	809	R-19		352	·			<u></u>	New
Vall	Wood Fram	ed		R-13		839			······································		New
Door	Opaque Do			None		44					New
Roof	Wood Fram			R-30		267	•				New
Roof	Wood Fram			R-25		547					Altered
	STRATIO		_ U-					Exter			
Orien	tation A	vrea(# [*])	Factor Sł	IGC	Overt	nang	Sidefin	s Shad	es		Status
ront (N)		80.0	0.990	0.74	none		none	Bug Sc	гөөл		Removed
eft (E)		37.5	0.990	0.74	1.3		попе	Bug So	reen		Removed
eft (E)		60.5	0.350	0.29	1.3		none	Bug So	reen		New
Rear (S)		25.0	0.990	0.74	6.0		none	Bug So	reen		Removed
Rear (S)		22.5	0.350	0.29	1.3		none	Bug So	reen		Altered
Rear (S)		24.0	0.350	0.29	6.0		попе	Bug Sc	reen		New
Rear (S)		10.0	0.320	0.28	6.0		none	Bug So	rəən		New
Right (W)		25.0	0.990	0.74	6.0		none	Bug So	reen		Removed
Right (W)		25.0	0.990	0.74	none		none	Bug So	rəen		Removed
Right (W)		12.0	0.350	0.29	none		none	Bug So	1997		New
Right (W)		53.4	0.530	0.65	6.0		none	Bug So	reen		New
HVAC	SYSTEM	IS	····								
Qty.	Heating		Min. Eff	Co	oling		Min. E	Eff	The	rmostat	Status
1	Central Furna	ce	95% AFUE		Cooling		13.0 SE		Setback		Altered
										·	7110700
	DISTRIB			-		_				Duct	_
Locat	ion	Hea	ating	Co	oling	Duc	t Locati	on	F	R-Value	Status
IVAC Sy	stem	Ducted		Duc	ted	Attic,	Ceiling Ins, ve	ented		5.0	Altered
				<u></u>							·····
<u> </u>											
_		NG									
Qty.	Туре		Gallo	ons	Min.	Eff	Distribu	tion			Status
1	Instant Gas		0		0.82		All Pipes In	S			Altered
									·		· · · · · · · · · · · · · · · · · · ·
						<u> </u>					
					. ·				<u></u>		··· ··
	ro 5.1 by Energ	TVSoft Lise	r Number: 1759	Ri	inCode: 2	013-09-1	7T11:50:53	ID: 13	T132		Page 3 of 1

PERFORM	ANCE CE	RTIFIC	ATE: F	lesid	ential		(Par	t 1 of 5)	C	F-1R
Project Name Brown Residen	200		Buil	iding Type		gle Family ti Family	☐ Addition Alone ☑ Existing+ Add		Date	+
Project Address	ICO	<u></u>	Cal	ifomia En	ergy Clima	•	otal Cond. Floor Ard			7/2013 of Stories
3349 Joy Road	Occidente	<u>1/</u>			ate Zon		2,008	457	"	1
FIELD INSI	PECTION	ENERC	Y CHE	CKL	ST		· · · · · · · · · · · · · · · · · · ·			
CIYes ZINd	> HERS M	leasures ·	If Yes,	A CF-	4R mus	st be pro	ovided per Pa	rt 2 of 5 of t	his fo	rm.
🗹 Yes 🗆 No	Special	Features -	If Yes,	see P	art 2 of	5 of this	s form for det	ails.		
INSULATION		:	·····		Area	Spec				
Construction			Ca	vity	(ft^2)	-	ures (see Pa	rt 2 of 5)	Sta	tus
Roof Wood Fi	ramed Rafter		R-25		318				New	
		<u> </u>			•					
							·			
· · · ·		,	······································							
· · · · · · · · · · · · · · · · · · ·	<u>.</u>		<u> </u>		<u> </u>					
FENESTRAT	<u></u>	U-					Exterior		<u></u>	
Orientation	Area(<i>ft²</i>)	U- Factor	SHGC	Over	hang	Sidefin	Exterior s Shades		Sta	tus
Front (N)	47.5	0.350	0.29	none		попе	Bug Screen		New	,
Front (N)	54.0	0.320	0.28	10.0		none	Bug Screen		New	
Left (E)	6.0	0.320	0.28	1.3		none	Bug Screen		New	
Right (W)	25.0	0.350	0.29	1.3		none	Bug Screen		New	
·		<u> </u>							<u> </u>	
<u></u>					<u></u>				<u></u>	<u> </u>
	<u>.</u>		<u> </u>			· · · · · ·				
··········		<u></u>		<u></u>					<u></u>	
		<u> </u>								
							<u> </u>			<u></u>
HVAC SYSTI	EMS	<u> </u>	<u> </u>		<u> </u>				<u> </u>	
Qty. Heatin	g	Min. E	Eff Co	oling		Min.	Eff TI	nermostat	Sta	tus
									+ ***** ****	
				. <u> </u>						
HVAC DISTR			-		_			Duct	-	
Location	He	eating	Co	oling	Duc	t Locat	lon	R-Value	Sta	tus
					<u></u>	·			<u> </u>	
	<u> </u>		<u></u>						<u></u>	
WATER HEA	TING						· · · · · · · · · · ·			
Qty. Type		G	allons	Min.	Eff	Distrib	ution		Sta	tus
ary. Type	······	<u> </u>	unons		Nation 1 1	DISTID			Jia	lus
			······	· · · · · · ·						
			<u> </u>	· · · ·			· · · · · · · · · · · · · · · · · · ·			
		<u></u>						<u></u>		
EnergyPro 5.1 by E	nergySoft Us	ser Number: 17	759 R i	unCode:	2013-09-17	T11:50:53	ID: 13T132		Pa	ge 4 of 14

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	CERTIFICATE:	Resider	ntial	(Part 2 of 5)	CF-
Project Name Brown Residence		Building Type	Single Family Multi Family	 Addition Alone Existing+ Addition/Alteration 	Date 9/17/2
justification and documentation	uld pay special attention on, and special verification he justification, and may ocumentation submitted	n to the items s on to be used v y reject a buildi	pecified in this ch with the performar ng or design that	ecklist. These items require speci- ice approach. The enforcement a otherwise complies based on the	aencv
The Existing Roof Roof R-25 Vau				-	
		······	18		
· · · · · · · · · · · · · · · · · · ·					
			·····		
			·····		
		· · · · · · · · · · · · · · · · · · ·			
	e field testing and/or	verification by		S Rater. The inspector must r	receive a
	e field testing and/or	verification by			receive a
Items in this section requir	e field testing and/or	verification by			receive a
Items in this section requir	e field testing and/or	verification by			receive a
Items in this section requir	e field testing and/or	verification by			receive a
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Items in this section requir	e field testing and/or	verification by			receive a

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PERFU	RMANCE	CERTIF	ICATE	: Reside	ntial	(Parl	: 3 of 5)	CF-1R
Project Name Brown Re				Building Type	 I Single Family Multi Family 		ne Idition/Alteration	Date 9/17/201
,	ENERGY USE	SUMMARY	,					19/1//201
	St		roposed	Margin	, , <u>, , , , , , , , , , , , , , , </u>			
(K	Btu/ft ² -yr)	440.00			·····	·····		
Space Hea	~	119.88	31.88	88.00				
Space Coo	bling	65.27 28.69	26.32 11.00	38.95 17.69				
Fans Domestic I	Lot Wator	20.62	13.89	6.73				
Pumps		0.00	0.00	0.00				
	Totals	234.46	83.09	151.37		· · · · · · · · · · · · · · · · · · ·		<u> </u>
Percent B	etter Than Sta	ndard:		64.6 %				
В	UILDING	COMP	LIES	- NO HE	RS VERIFI	CATION	REQUIR	ED
				i) 0 deg	····		Fe	nestration
-	ont Orientation Dwelling Units		(A)	1.00	Ext. Walls/R	oof Wall	Area 508	Area 102
	ble at Site:	•	Nat	ural Gas	(F) (E)		808	67
Raised Flo				1,323	(<u>-</u> / (S)		502	57
Slab on Gr				0	(W)		715	90
	eiling Height:			9.4	Roof		1,502	0
Fenestratio	on Average	U-Factor:		0.37			TOTAL:	315
	Average	SHGC:		0.35	F	enestration/CF	A Ratio:	15.7 %
REMARKS					· · · · · · · · · · · · · · · · · · ·			
		•, · · · • • • • • • • • • • • • • • • •			y with R-19 floors, R-1 BUILDIN I frame, dual parte is		CHECK ED ★	
	ion: wood frame, d					OUT 0 1 201	3	
Replace water	r and space heatin	g system and	distriution as	indicated				
This certific to comply v	ENT OF CO cate of complia with Title 24, Pa Standards of th	nce lists the arts 1 the A	 building f dministrat	ive Regulation	PERM specificationsAGE is and Part 6 the		ASSOCIATION OF BAILED ENERGY // Peter Zeedrich RTUEIDENERGY // Peter Zeedrich R00-83-277	
The docum	entation autho	r hereby ce	rtifies that	the documen	tation is accurate	and complete.		
Docume	ntation Auti					$\hat{\Omega}$	01.	
Company	RaPiD Energy C	ompliance				the	Gudsel .	/17/2013
Address	420 Hudson Stre	et, Suite K		Name Peter 2	Ziedrich		1	/1//2013
City/State/Zip	Healdsburg, CA	95448		Phone 707 43	3-2878	Signed		Date
of construct with any ot duct sealin	tion documents her calculations g, verification c	s is consiste s submitted of refrigeran	ent with th with this t charge, i	e other comploermit applica	es that the propositiance forms and visition, and recognizalitation quality, and pproved HERS ra	vorksheets, wit zes that compli nd building env	th the specificat ance using duc	ions, and t design,
Designe	r or Owner ((per Busir	iess & P	rofessions	Code)		44870	13
-	SEBD&D							
Company Address	SEB D&D 2406 Zurlo Court	ŧ		Name Steven	Borchardt	m.	the e	9/20/13

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CE	RTIFIC	ATE (OF C	OMP	LIAN	CE:	Res	ideı	ntia	h			(Par	t 4 of	5)	Ċ	;F-1R
•	ct Name					1	Building 1	Гуре					dition Alc			Da	ite
- · - ·	vn Reside						. <u>-</u>			ulti F	amily	🛛 Exi	sting+ A	ddition//	Alteratio	on 9/	17/201
OPA	QUE SUI	RFACE I	DETAI	LS													
Surf		U-			Insulatio								oint App	endix			
Tyr Floor	00 Area 97		Cavity R-19	/ Exterio	r Frame	lnter	rior Fran	ne A	zm	Tilt	Statu		4				omments
Wall	22		None		_	+	_		0		Altered Remov		I-A4 (E=4	<u>4.1-A1)</u>	First F		
Wall	32		R-13		-	+			90		Altered		I-A3 (E=4	.3.1-A1)	First F		
Wall	35		R-13						180		Altered	4.3.	I-A3 (E=4		First F		
Door Wall	- 28		None		· ·	<u> </u>		_	180		Remov				First F	- Contraction of the local division of the l	
Roof	37		R-13 R-30			+			270 0		Altered Altered		I-A3 (E=4 I-A20 (E=		First F		
Roof	18		R-11			1			ō		Remov			7.2.1-711	First F		
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CERTIFICATE	OF	<u>C(</u>	DMP	LIAN	ICE	<u> </u>	lesi	der	ntial				(P	art 5 o	f 5)	C	F-1R
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Project Name Brown Residence		
		Date 9/17/20
<u>NOTE:</u> Low-rise residential buildings subject to the Standards must comply with all applithe compliance approach used. More stringent energy measures listed on the Certificat 1R-ALT Form) shall supersede the items marked with an asterisk (*) below. This Manda into the permit documents, and the applicable features shall be considered by all parties specifications whether they are shown elsewhere in the documents or in this summary. Form with plans. Building Envelope Measures:	e of Compliance (CF-1R, CF-1R atory Measures Summary shall b s as minimum component perfor	ADD, or CF of incorporate mance
§116(a)1: Doors and windows between conditioned and unconditioned spaces are man §116(a)4: Fenestration products (except field-fabricated windows) have a label listing th Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a).	e certified U-Factor, certified So	lar Heat Gai
§117: Exterior doors and windows are weather-stripped; all joints and penetrations are	caulked and sealed.	
§118(a): Insulation specified or installed meets Standards for Insulating Material. Indica §118(i): The thermal emittance and solar reflectance values of the cool roofing material installation of a Cool Roof is specified on the CF-1R Form.	te type and include on CF-6R For meets the requirements of §118	orm. 3(i) when the
*§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 E1677-9	5(2000) when specified on the C	F-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 rate is no greater than 2.0 perm/inch and shall be protected from physical damage and	no greater than 0.3%; water var UV light deterioration.	or permean
Fireplaces, Decorative Gas Appliances and Gas Log Measures:	·····	
§150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door cove §150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, wh equipped with a with a readily accessible, operable, and tight-fitting damper and or a co	ich is at least six square inches i mbustion-air control device.	in area and i
§150(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox j outside of the building, are prohibited.	acket, when that indoor air is ve	nted to the
Space Conditioning, Water Heating and Plumbing System Measures:		
§110-§113: HVAC equipment, water heaters, showerheads, faucets and all other regula Commission.	•	•••
§113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Ris valve, backflow prevention, pump isolation valve, and recirculation loop connection requ	uirements of §113(c)5.	
§115: Continuously burning pilot lights are prohibited for natural gas: fan-type central fu (appliances with an electrical supply voltage connection with pilot lights that consume le spa heaters.	rnaces, household cooking applies than 150 Btu/hr are exempt),	ances and pool an
§150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMA	CNA or ACCA.	· · · · · · · · · · · · · · · · · · ·
\$150(i): Heating systems are equipped with thermostats that meet the setback requirem	nents of Section 112(c).	
§150(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the f with insulation having an installed thermal resistance of R-12 or greater.	ederal minimal standard are exte	ernally wrapp
§150(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water tanks have R-12 external insulation or R-16 internal insulation where the internal insulat tank.	-heating system, or other indirection R-value is indicated on the e	ot hot water exterior of the
§150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirc 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 insulat 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 >15 123-A.	• • • • • • • • • • • • • • • • • • •	
§150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, §150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vap conditioned space.	, equipment maintenance, and w for retardant or is enclosed entire	<u>/ind.</u> ely in
§150(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating	and Certification Corporation.	

MANDATORY MEASURES SUMMARY: Residential

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MF-1R

Date 9/17/2013

§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

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:

Project Name

Brown Residence

\$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 20 kHz.

§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 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% 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.

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MANDATORY MEASURES SUMMARY: Residential	(Page 3 of 3)	MF-1R
Project Name		Date
Brown Residence		9/17/2013
§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garage shall be high efficacy.	s, laundry rooms, closets and	utility rooms
EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided th occupant sensor certified to comply with the applicable requirements of §119.	at they are controlled by a ma	nual-on
EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 squa manual-on occupancy sensor.	·	•
§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitcher closets, and utility rooms shall be high efficacy luminaires. EXCEPTION 1: Permanently in allowed provided they are controlled by either a dimmer switch that complies with the appli- on occupant sensor that complies with the applicable requirements of §119. EXCEPTION than 1000 square feet located on a residential site is not required to comply with §150(k)1	Istalled low efficacy luminaires licable requirements of §119, o 2: Lighting in detached storag	shall be or by a manual-
§150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance in Laboratories or other nationally recognized testing/rating laboratory; and have a label that leakage less then 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; ar the luminaire housing and ceiling.	certifies the lumiunaire is airtig	ght with air
§150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low dwelling units, entrances, balconies, and porches, which are permanently mounted to a re same lot shall be high efficacy. EXCEPTION 1: Permanently installed outdoor low efficacy they are controlled by a manual on/off switch, a motion sensor not having an override or b and one of the following controls: a photocontrol not having an override or bypass switch t astronomical time clock not having an override or bypass switch that disables the astronom control system (EMCS) not having an override or bypass switch that allows the luminaire t luminaires used to comply with Exception1 to §150(k)13 may be controlled by a temporary sensing function provided that the motion sensor is automatically reactivated within six ho luminaires in or around swimming pool, water features, or other location subject to Article be high efficacy luminaires.	sidential building or to other building or to other building or to other building or to other building as switch that disables the photocontrol; mical time clock; OR an energy to be always on EXCEPTION 2 override switch which bypassurs. EXCEPTION 3: Permaner	uildings on the rovided that motion sensor, OR an y management 2: Outdoor ses the motion ntly installed
§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not con more than five watts of power as determined according to §130(d).	tain a screw-base socket, and	consume no

\$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.

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