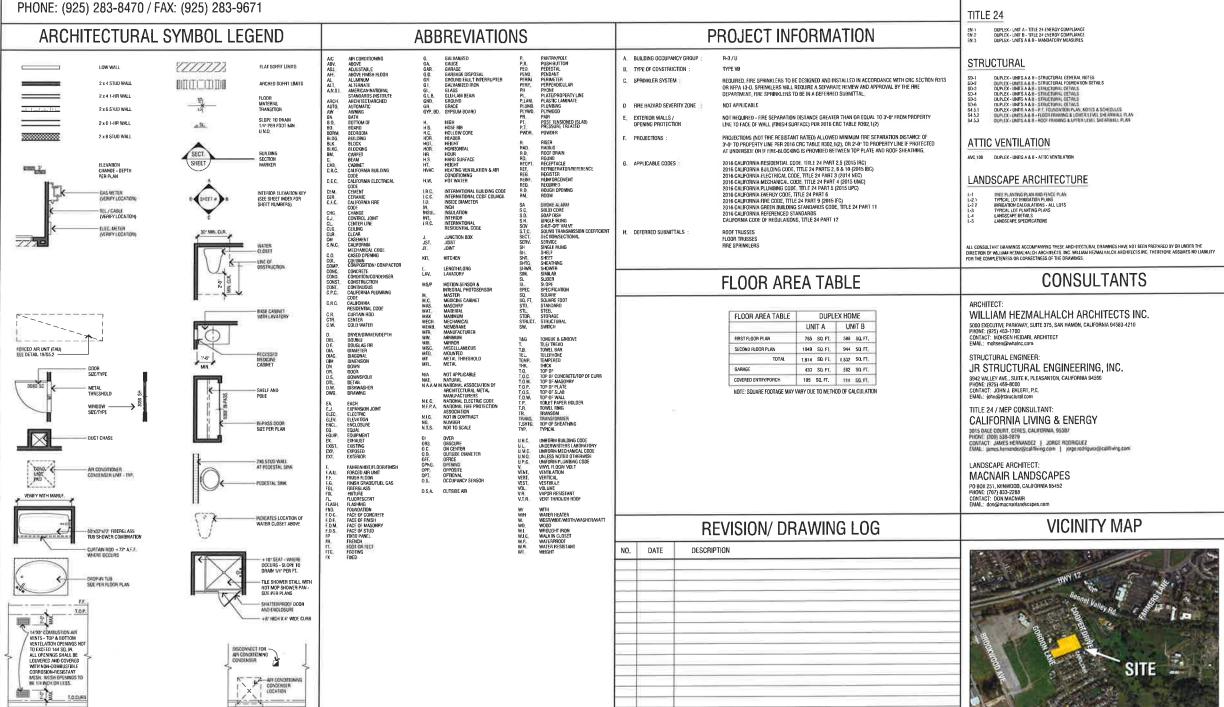
SANDALWOOD (AKA BENETT PLACE)

DUPLEX HOME SANTA ROSA, CALIFORNIA FOCUS REALTY SERVICES INC.

LAFAYETTE, CALIFORNIA, 94549



SHEET INDEX

ARCHITECTURAL

BLDG 100 DUPLEX - COVER SHEET

GENERAL NOTES GENERAL NOTES GENERAL NOTES GENERAL NOTES GENERAL NOTES GENERAL NOTES





FOCUS REALTY SERVICES INC.



OPANGE COUNTY - LOS ANGELES - BAY AREA



DUPLEX

FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA (A.K.A. E SANTA F

SCALE

SANDALWOOD

REVISIONS

COVER SHEET **DUPLEX HOME**

PROJECT MANAGER:	
DESIGNER:	M.R.
DRAWN BY :	J.D.L. / F.B.
REVIEWED BY	
1ST BLDG. DEPT. SUBMITTAL:	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER	2019034
CAD FILE NAME:	
DATE:	SHEET:
12-30-2019	C1.3

S07.2. Heating and air-conditioning system design. Heating and air-conditioning systems shall be sized disagned and have their equipment aid odded using the following methods: (Support dimmental air required at implication submitted.)			City Plan Check staff
Estrol ith heal loss and heal gain values according to ANSI/ACCA Manual J 2011 ASHRAE handbooks or other gouvalent methods	R		D.
Sure duct systems according to ANSVACCA 1 Manual D = 2014 ASHRAE handbooks or other countrien methods	8		
Select hatting and cooling equipment assurding to ANSVACCA Manual S = 2014 or other equivalent wethods	M		13
Exception: Use of atternate design temperatures necessary to ensure the systems function are acceptable.			
Designation of Property Company		S/mml	Owner
home or County and Local Environmental Continue			
A4 509 1 flems in lites section are recessing to address innovative concepts of local environmental conditions.			Diref Building Office
Rev		D	D
INSTALLER AND CALGREEN INSPECTOR QUALIFICATIONS			Section of the latest
Crustifications			
(D. Lindallar training. HVAC system installers are trained and certified in the proper installation of HVAC systems	ĸ		CALGreen In specie
(62.2 Sparetal inequirehors. The CALGreen inspector for this project is islad by the basil pured-gloon as an Approved CALGreen inspector and is justified and able to demonstrate competence in the discipline they impect	×		City Plan Chick staff
Farifications			CALGreen Inspecto

Page Mal III

5 17-2019 Date

5-22-2019 Date

(209) 538-2879 Phone

CALGreen Building Acknowledgments

Project Address 1130 Gordon Laine, Santa Rosa, Geliforeia, 05404 Project Description 18 surger family and shart horses

Section 1 - Design Verification
Compiles at lens of Section 1 - Design Verification
building point application to the Building Orision

Ma

Mohsen Heidari Deeph Professoral's Name (Phase Prof.

- Children to the same of

CAL Green Impector's F-mail Address

Later Agencies CA, Stein Property Sports

CALGreen instructor a E-mail Address of alfarent their elevent

4 4 10.1 Operation and maintenance grapue. At the bine of final inspection is marrial which violates all of the following shall be placed in the building.	20		CALGreen Inspecto
On the control of the			
because of Concepts and Louis Endownwood Conditions			
M.A.11.1 Innovative concepts and local environmental conditions temp in this section are recessary to address innovative concepts or local environmental ponditions			Chef Building Official
t on			0
45 MIG A45 ENVIRONMENTAL QUALITY		Ħ	HE
Firminos			
503.1 Fareplaces. Imital only a direct-vent or scaled-combustion gas freption. Wood-peter above shall comply with EPA New Source Performance Standards (NSPS) or local continuous (Support forcessmall all on mary for required at application collection).	R		CAL Street Inspector
Polius ana Control			NEW CALCUM
564.1 Covering oil ducti operangs and protection oil mechanical quipment duang consuments. All the time of reciph installation dering totage on the site and until first statistics of the NIVAC experiment all dud and other missed as destribution component operangs shall be covered white the control of the statistics of the covered thin tape dester, the attended or other methods acceptable to the imforming gency to installate the amount of water, dual and debns, which may other to statem.	Ø		0

4 504.2.7 Panta stans and other costings shall be complaint with VOC limits in CALGreen Table 4 504.3

4 504.2 3 Aerosol paints and other coatings shall be complaint with product weighted MIR Limits for ROC and other tone compounds are BAADMD (Buy Airsa Air Quality Management Definis) VOC limits

4 SOE 2.4 ff requested by enforcing agency documentation shall be provided to verify this compliant VOC limit first materials have been used.

f 504.2 Carpet systems Carpet and carpet systems shall meet the leating and product requirements of one of the leated 4 ems. 1 – 4 m. Section 4 504.3

Note: Documentation must be provided that verifies that finish materials are certified to meet the poliutant entities in this section.

A 405.0 % Recycled content. Use malerable, equivalent in particularies expension and particularies expension with total (combant) includes content value (RCV) for or less than 10th of the total maleral cost of the project. (Tex 1)	Ø	CAL Green Inspector
OTE See tocal jurisdiction for alternatives due to pressonable determination of this messure		
or the purposes of this section, materials used as components of the rudural frame shall not be used to calculate may lead content.		
A4.405.3.1 I Total material costs: The lotal material cost is the lotal astronated or sould cost of ingerials and assembly products used in the project. The required lotal recycled content value for the project (in didline) shall be determined by Equation A4.4.1 or A4.4.2.		
Equation A4 4-1 To obtain the lotal cost of the project myllight the secure fool	50	10
valuation and ableshed by the enforcing agency. The total material cost is 45% of the total cost of the project.	*	
Equation: A4.4-2 Detailed method: To obtain the letal cost of the project upd the estimated and/or actual costs of methods. The total eating lad costs shall not include fear, labor and washeston contri- overhead appliances: equatment furnishes or humstangs.	8 0	D
A4.405.3.1.2 Determination of load recycled content value (RCV) Total RCV may be determined either by dollars or personage as noted below.		
Equation At 4-4 Total REV (in dollars) Total recycled content	80	
value of the materials (RCVm) and/or assembles (RCVa) in dollars. The result may be directly compared to Equations 4.4.1 or A4.4.2 to did amino compliance with Tier 1 prerispunds.	*	
Equation A4.4-5 Total RCV (by percent age): Total recycled content value (see cert) = [Total Recycled Content Value (sforars) = Total Miseral Costs (citizers) = (10.1 hr exit of this cafabilities may be deadly compared for complainable win Ter 1 percequiste.	8	G.
Ad AGS 3.5.2 Determination of recycled content value of materials (RCVIII). The recycled content value of spack material (RCVIII) is calculated by multiplying the coal of material as defined by recycled content. See excellent Ad-4.0 mg/44.47.	66	
Emmar ACAA POPULISHED CHARGE CONTRACTOR OF THE	50	2
Equation A4 4-7 RCm (percent) = Postconsumer percentage + 11/21 preconsumer content percentage	M	
Note: If the manufacturer date not separately stendy the pre- consumer and post consumer recycled content of a material but reports it as a facilia length percentage. It? of the total shall be considered prescripting and 1/2 and the competed postconsume		
ALADS.3 LA Determination of recycled confers value of assentiative (RCVs). The recycled confers value of assentiative (RCVs) is requisited by mixtyping the lead and of assentiative by the total recycled partial of the assentiation (RCs), and that be disconnected by Equation AF-46.	us	

is A Use of building meterials from reptidy renewable eour or more of the tollowing materials manufactured from reptidy white sources or appropriate hyperdurfs is used

6.406 1 Roders groating. Armular spaces around piper electric cables conducts or other openings in player at exterior wats shall be protected against the passage of recent to the passage of recent to the passage of recent

A4.407 F Roof overhangs. A permanent overhang or awaying at least 2 feet in dayth is provided at all estenor wells.

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Ad 303 1 Rischem fescerte and distresembers. Kildhen fauceis shall have a maximum flow ratin not greater than 1.5 gallons per mesute at 80 p.m. May lengoramly increase to 2.2 gcm). Note: Awariers OK if complying fauceis not available.		n	CALBreen krspector
M 303.2 Altempts water sources for namposible applications. Namings conceptable water sources are used by index potable water leadedown. Afternate inappeable water sources must be installed in approximate with the California Plumbing Code.		g	CALGreen Inspection
M-383.3 Applicances Dishwishers and citatines weathers on residential isolatings shall comply with the following			C41.Green Inspector
install at least one qualified ENERGY STAR appliance with machine leater one as follows			
1 Standard Dishwashers – 4 25 gallons per cycle		D .	0
2 Compact Derhaustern – 3 5 gallons per cycle		0	D
Clothes waithers water factor of 6 gallions per cust-client of drum capacity.		0	E)
At 1314 composing tolids are included		n	CALGreen Impacto
M 203 5 Hot Weter Reck codesson. One and her-family overlings shall be equipped with a demand hat water recursiblen system. Osadbor Weter Use See Sania Ross City Code Chapter (4-30, Water Efficient)		O	CAL Green inspecto
Landscape Ordinance 5 304 1 Weter budget A water budget shall be developed for landscape	-		0
images on processing the control of	.77		
weather-based or soli based with men sensor			
Nove See Sees Assertions & Stone of Carolings Ordered			
M.304.1 Recreater systems. A corrector capture storage and re-use system is designed and installed to use consister parameter by at least 85% of the systable tool area (per Caritima Pauriting Code)		0	0
Conjugation of programs of programs	Stear David		Delyl
At 304.2 Poliable states elimination. A landscape design is installed which does not utilize outable states of the county design of the reserved of		D	0

Feature or Massura	Required	Deilbret	Verbories by
M 105.3 Landscape design. Pos construction landscape betagns appropriations or many of the following			City Water Efficient Landscape Criticatics Staff
Arear disrupted during construction are restored to be consisted with native vegetation.		10	D
2 Limit buff areas to not more than 50 percent (for 1)	18		(D)
 Unite at least 75 percent native Californian or drought laterant, clarif and tree species appropriate for the climate zone region. 		D.	
4 Hydrosoning ringston lechniques are morporated into the	1	- 0	49
landscape désign	_	1.49	. 6.2
Description of programal mediants		Shart g	Yes
A4 106.4 Whater pairmeable auriface: Permeable pliving is Unlated for vol less have 30 percent of the lot of parting walking or paide aurifaces (Fac 1) . Ecoporation: Privincy devicesly early walkings and prochibations or required accessible routes for persons with disableter.	8		CALOrsen Impreto
Description of programming resources		Stant 8	page 1
As 100.5 Cour hard. Trusting morning what have a minimum is other		T-	CALGreen to specify
aged solar reflectance and thermal territorius or a measure Solar Reflectance index (SRI)			Cattories inspects
 Low-rise Respensal Roof covering shall meet or exceed the 	l 181		1867
values contained in Table A4 (06.5 (1))			(64)
made a source for yourse surfaces in Table A4 106 5 1(3)	- ⊠		D
A4 106.6 Vagetused roof. Install a vegetated roof ke at least 50% of the			CALGreen Imperio
red was		0	
A4 106.7 Reduction of fixed island effect for nonecol meas. Reduce nonroal real stands for 50% of selevative, paties driveways or other		n	CALGrown Inspects
paved areas by using one is more of the methods halled in #1 – 5		144	
4 106.4 Provide rapability for afective vehicle changing in one- and two- family readings and attractionals with afficient produce greaters and 3 secret of playing playing scales. As beneficially to out-through electings index a helital representation of the account of the control of the con- trol of the control of the	88		City Phys Check scall
A4,106 B Electric vehicle (EV) charging. Dwellings shall comply with the following requirements for the future institution of alectric vehicle supply equipment (EVSE)			CALOreen Impents
A4 105 E.1 Tier 1 for one- and two-family dwellings and lownhouses	N		.0
wen attisched private garages instat a diadealed 2087240 voti branch ordust including an overcoment protective dievoc rated at 40 emperes minimum per divetting und	24		
A4 106 it.2 Tier 1 for multifamily dwellings. Provide capability for Muse cleans vehicle sharping in 5 percent of total partiary spaces. as specified (d 17 or more multifamily dwelling units)	R		n
Description of programmed (Whiteleville		-	-

A4 (06 9 Bioyole parking: Comply with Sections A4 106 9 1 through A4 106 9 3 or med local ordinance whichever a more stringeral

At 106 R.3 Lang-term bicycle parking for hatel and matel buildings. Provide one on-site convenently reached bicycle fysible for every 25 000 sq. ft., but not less than 2

Ughing Zones 1-4 as defined in Chapter 10 of Cahlornia Americanics Code and Saddight, Uplayd and Gitze (800) relongs as defined in SS TI 15-11, and

5 Allow BUG retings not exceeding those shown in Table A4 108 10

designed and enabled to pumply with the following

I Luminavies that quality as ex-Code

en Compte and Live Brewn

Santa Ro	25
RESIDENTIA	
2016 CALGreen+Tier 1 C	he
(Named on CALGrown + For	IJ
long percent appliquations recovered on or after A husbes, destroyed, demonstrate, condensations, about fartaming and office hypothesis of destributings co- ton trains or receiving fractions multiplicating occurs of "U" acceptancy husbridge, see not shighest to cope or advantance that increase scrattering is but it Regions to assisting introduces are and soll last it Regions to assisting introduces are and soll last it Regions to assisting introduces are and soll	少かのかない

Applies to build motels, kidging for femaling, dathery is without reproduce Detache (Keedamial addition Check)

Provid Accress 1130 Górdon Lane, Santa Rosa, California, 95404 Project Name Sanderwood AKA tlennett Place

Project Description 18 single family and dust formes.

Lenox Homes
3675 Mount Diablo Boulevard, Suite 35
Lafayette, CA 94549
925-238-8470

CALIFORNIA LIVING & ENERGY Tile 24 Compleme - Residential Non Residential

les 22 people of original analysis of the second	Markeney & Nor I Prompositors	200	as robid balon
AT AND AAT PLANKING AND DESIGN	=		1386
Situ Selection			
Feature or Moseure	Mequired	Decliese	Vwitteet
M.101 if Bestiman, A not when complete with all read one of the delenged distribution to certain Eleganus discussionism represented all opinionism section and the complete distribution of th		000 0 00	City Plan City City P
Site Franciscon			
At 104 1 locksdauts with corrupts subority on the project who have been varied in areas related to environmentally femility development can insert with a femiliar properties of the service of the servi		n	CALGREEN I
Secretarion and House of Externs Materials			

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nor errornor	==		
manus Appropria General			
Energy Performance Comply with incomon requirements of artistical Charge Cook Ying Olympia and adult Yar 1 for Charge to	æ		Cry Building breast #
NATER EFFICIENCY AND CONSERVATION	135	District Name of Street, or other teams of the street, or other te	==
Floor Der			
Weley containing plumbing fixtures and fittings. Plumbing revealer closers and urmals) and littings (fauchts and principles) shall comply with the following. I four other development.			C410-res (repeter
303 1 I Water closes. The effective flush volume of all water loses shall not exceed 128 gallons per liush	100		(0)
303 1 2 Unnals The ellective flush volume of ornals shall not cored 0.5 gallans per Rush (0.125 for wait-mounted unnals)	86		E3.
303 1 3 ShowerIneds			
6.383 LEX Single Street Area Spring Street Service of Science of Service of S	DE		D
4 (E.E. 1.5.) Makings Show arrange. When a shown is selected by a property of a first selected by a	聚		

Feeture or Manager	Required	Bactions	Varification by
At 105.1 Easting buildings on the sile are deconstructed and the salvaged materials (which must comply with current building standards) are recised.			CALGreen Imper
64 195.2 Materials which can be easily reused include but are not limited only a following.			Verify as least over
Light Aduran Pumbing Aduran Doors and time Mason's Electrical denom			000000
6 Appliances 7 Foundations or portions of loundations.		_	
Site Development			
4.00.2 Sygrom water channage and astantion during construction. Name a material present is what during loss that one was a faint and present the pumber of some some faint from a community and material to company with leading as and of some each or proposed and statute consume transfer distinguishment. The latest field of the faint Channel 114.2.	×		Con Balley Haper
Description of projector (management	Des Dest		Defet .
At 108.2 Soil analysis and protestion. The cols at the building sile are analysed and protected as specified in this section.			Oty Plan Chada so
A4 100.2 1 Soil analysis. Soil analysis is performed by a licensed design protessional and the Indrings utilized in the structural design of the building (Support demonstrates required at application selected.)		0	- 12
A4 (186.2.2 Sed protection. The effect of development on the hulding stars is availabled and the soil is protected by one or more of the following.		D	City Building Inspec
Natural diseases evaluation and propose control implemented to minimize increase. See a second of the second of call and 50 is executed to accomplished by minimizing the amount of call and 61 is establish a cores to addition every. Underground constitutions suitables are contributed to white it the same trends minimize disduted only and social or epitaced using accorded and addition methods.			On having room
A4, 106.2.3 Deplaced lopsof in stockpand for rause in designated area and covered or protected from storach. (Tear 1)	20		CI.
Description of programmal constantings		-	Dated .
4 108.3 Granking and paseing. Construction plans shall enhants how all expenditudes a shall enhants have all the construction plans and the construction of the constr	80		Chy Suiding Imput
Description of proposed was asset		-	wa :

Spines I feebure of Makure	Column 2 Project Requirements When checked them form became a pent of the expressed plant and must be autit lad or empressed in the project		Column 3 Verification Couples dur resident Autorité
See Chapter 4 and Appareds, A4 of the 2018 California Green Building Core and the local precision for complete descriptions of feet user or man sees Eded have	Mandanay & Ser I	IIII	Varifogs on by a 3rd party CAL Green innoactor or by local jurnal chan stell as colour believe
FLANDAL!	===		
Situ Sulaction			
Feature or Moneure	Required	Decliers	Yestication by
M. 1831 Selection. A via which complete with all least one of the belong of the direction; or Got et all (Sugarat the manifestion proping) as explication minimized; I. An other last is selected; I. An other last is a selected; I. An other last is selected; I. An other last		99	City Plan Check staff
M.103.2 Fainhale community connectivity by one of the following methods 1. Locale project within a 1/4-mile true walking deduction of all leads 4 basic services.		о	CALGOREO Inspectos
2 Locate project within 1/2-mile (rue walking distance of at least 7 basic services 3 Other methods increasing access to additional desources		8	8
Site Freezewalters			
(4) 106 1 (not/dusts with oversight authority on the project who have been trained in areas related to enverymentally breasty development can leach		n	CALGreen (mase-for

EROT EFFICIENCY	=	Control of Sections According to the
Character Approach Control		
5.1. Energy Performance Completed incommon requirements of 6 Centerns Chargy Cook You One provide attent New 1 for Chargo making	8	Cry Building braces (7
MATER EFFICIENCY AND CONSERVATION	w i	Marie Marie Marie
iner Femar West		
203.1 Weller contrarving plumbing fixtures and fittings. Plumbing that to (water closels and urmsle) and littings (facets and comply with the following, facets and comply with the following, from other development.		CALCINI INJUNIO
4,303 1 I Water closets. The effective flush volume of all water closets shall not exceed 1,25 patters per flush	188	(0)
4.303 1.2 Unnals The ellective flush volume of unnals shall not exceed 0.5 gallans per flush (0.125 for wair-mounted unnals)	8	E3.
4 303 1 3 Stowerheets		
4.303.1.8.1 Single Showsheeds. Showsheeds that have a majoritum file rate of not more than 1 Signification mouth at 60.79.	⊠ E	(0)
gallions per minute of 80 pts. or the shower shall be diverginal to allow only one shower maddly to be in operations as a lost	M	
S. SEE S. & Francis.		680
4 201.1 4 1 Resident in levelory featests. The maximum flow rate of removalual tavelory featest shall not exceed 1.2 gpm at 80 ps nor be less than 0.8 gpm at 20 pts	8	O
4 303.1 4.2 Lavetory feacets in conviron and public use areas. The macrosm flow rate of involvy jacoets redshed on common and public use areas (cultede deelings or sleeping cyts) in residential tusiongs that not exceed 0.5 gpm at 60 pp.	×	ю
4 303.1.4.3 Meterang Faucets. Metering fracets when installed		.0

	CALGREEN STANDARDS CO
NOATONY NEA TURES REQUIR DE OF REGULA TURES ARE IN	TAINS ALL THE MINIMON RES SURCE AND ENVISONMENTAL RED FOR COMPLIANCE BY TH ATIGNS TITLE 24, PART 11, ECORPORATEO INTO THE ARC ON WILL THE IN COMPLIANCE.

BIDENTIAL
AL CODE
HE CALIFORNIA
WHEN
CHITECTURAL
WITH THE 2011

IT IS THE RESPONSIBILITY OF THE OWNER, BUILDER OF GENERAL CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION TO COMPLY WITH THESE MANURES AND TO SUBMIT GOCUMENTATION OF CONTRINANCE FOR APPLICAD GREEK BUILDING MCASURES TO THE ENTORING ACKNEY.

JEFF RUTH ICC # 9138241

Printed Manager Committee			
4 95.5 Compare ship Toursacours. Operand ship Toursacours of the Toursacours of the Control Selection. Operand ship Toursacours of the Control Selection (Oscie. Chapter 5) which comply with the deather of the California Revendence (Oscie. Chapter 5) which comply with the deather of the California Revendence (Oscie. Chapter 5) which comply with the California of the Cali			Cry Building Installer
Description of proposed resembles		2000	Detail
1907. Neckster covered of handwing materials, fluidings and early which spen of water any mit under the results of year of water to be recorded by the other being paid and the beneated. What if the first he hand, premishers asserted 10% mitimate in the contract of the territory of the proposation with Neckster and the premisher of the proposation with the proposation with the proposation of the proposation o	×		CALOrem inspector
Indian dis Quality and Estimati			
(50%). But however, a better it may be described by the described of a described	×		CALGreen Inspector
	_	_	
A4 506 I Fritters Return ar filters with a value greater than MERV 0 shall be installed on MVAC systems. Protosore drop across the liter shall not become 0 I inches sealer column.		0	C4L0reen Inspector
M 506 2 Construction litter (High-Rise Residential). Provide litters on etum ar coentigs rated at MERV 6 or higher during construction		ю	CALGreen Inspector
M.506.3 Direct vent appliances. Direct-vent heating and cooling equipment shall be utilized if the equipment will be located in the conditioned spage or mail the space is heating and water heating eaupment, in an including mechanical recommend.		0	CALGreen Inspector

Const	ruction Wesse Reduction, Disposal and Resysting		
INVEC 4	Construction waste management. Recycle and/or salvage for meanum of 65% of the nonhazardous construction waste in since with Section 4.408.2, 4.408.3, or 4.408.4.	8	CALGreen Inc
-	remainden report a applicate admited from 6 and 7;		
Except	ons the state of t		
1	Excessed of sociand band-dearing debris		
2	Alternate waste reduction methods		
э	Isolated job sales		
	Commitmention state trainagement plan. Submit a construction narragement plan that		
1	Identifies the construction waste materials to be diverted from disposel by efficient usage recycling revise on the project or safvage for fature use or sale		
3	Dejaments il construction waste materials e4 de sortet on-site or bulk mixed		
	interities diversity function where community were married and an interior		
4	identifies construction methods employed to reduce the emount of construction and demokbon wests generated		
5	Specifies that the amount of construction waste materials diverted shall be calculated by weight or volume but not by both		1
compan constru	Waste cramagement company. Utilize a wissle management by that can provide verifiable documentation that the percentage of dion waste material diverted from the landfill complied with 1 Titler (1986 below).		
	The owner or contractor shall make the determination of the clion waste material will be divisited by a waste management by		
* 418.4	Made Scenn reduction abstrative (Live Size Frenchistor)		
	te it dail combined weight of construction and complete weight of construction and complete weight of construction area area.		
hunhas	Enhanced construction waste reduction. At least 65% of articus carednot on and demoison dechs generaled at the article to recycle or safvage (Ten I)	8	CALGreen In
priore	II 1 Documentation, Occumentation shall be provided to the ing agency which communicates compliance with this section sentation shall be compliance with Section 4.408.5.		
Bulldir	g Baltzenunce and Operators		

CALGreen Inspector	AV.A04.3 Suilding systems. Use pre-manufactured building systems to eliminate solid cave lumber whenever possible
D	Ad-AOAA Pro-cus materials and details. Maintail has are recluded in the start which specify material quantity and provide detection for on-late cut flaggest discussed also required at application substitute.
	Manda Suesan
	M.A05 is Preferrated building viral-enals. One or more of the Inflowing building materials that do not require aderdonal measures for finishing a used. I. Eutenia form not requiring parel or stem. 2. Whodows not requiring parel or stem to see the or of the control of the co
	84.400.2 Concrete Boors. Floors that do not require additional covering are used unduring but not limited to stained institution of sampled concreti- tions.

CALGreen Inspe

Green Mapeo

Note: As allowed by the enforcing agency, my design our

A4.484.2 Building dimensions & Layouts. Building dimensions and layouts are designed to menture wistens at least 80% of the structure.

Building dreign demonstration of 2 interments
 Windows 8 doors are located at regular 16 or 24 oic alud positions
 Other methods assemblate by enforcing agency.

A4.484 1 Lumber size. Beams and heriders a minimum size to adequately support the had

Share Closed

Gry Plan Dhela shift.

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no date ЈН 7/23/19 21731 DATE: JOB NO:

Sandalwood Santa Rosa, CA

REVISIONS

CG-1

per cycle.
4.303,1.4.4 Kitchen hausets. The maximum flowrest of latch baseds may not exceed 1.6 gam. at 80 ps. (May temporanty increase (6.2.2 gam). Note: Aerotom OK if complying favorets not avealable.

52

Aug 2018

Soven irrepactor

Carrier species

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factors.

CalGreen Mandatory Compliance SHEET

GENERAL NOTES

- 1. These plans are intended for use by only knowledgeable licensed contractors familiar with all applicable building codes and other governmental requirements, and able and willing to provide workmanship and materials of high quality. They shall be interpreted so as to incorporate all applicable building codes and other governmental requirements. All ambiguities and doubts shall be resolved, unless the Architect specifies otherwise in writing, in avor of the construction or material of the highest quality,
- 2. In using these plans for bidding or construction purposes, all contractors are required to review and treat them as a whole in order to identify all requirements that directly or indirectly affect their portion of the work, even requirements located in sections designated as applicable to other trades, in case of conflicts, the affected contractor is required to either obtain direction from an appropriate representative of the Builder, or otherwise to apply the more stringent standard.
- 3. The Builder shall take full and final responsibility for constructing a final product of industry-standard quality and serviceability consistent with the information and requirements contained in the Construction Documents of reasonably interable therefrom, and/or contained in the requirements of any governmental entity with jurisdiction over the Project (including the provisions of California's Right to Repair Act [California Civil Code Section 895 et; seq]; and in this repard the Builder shall take full responsibility for all construction means, methods, techniques, sequences or procedures including without limitation demolition, excavation and erection procedures; for safety precautions and programs in connection with the Project; and for the timeliness or quality of all of the work performed pursuant to this agreement. In this regard, the Builder shall indemnify to the fullest extent allowed by law the Project's design team, and their respective officers, directors, principals and employees, of and from any and all claims, liability and/or losses which are caused or contributed to by the failure of the Builder to honor these obligations, including even liability claims and/or losses involving any indemnities actual or alleged active negligence or design defects, and excluding only any indemnities sole negligence or willful misconduct.
- 4. Any subcontractor which agrees to construct the project pursuant to these plans fully assumes the risk of all errors and omissions which should have been detected by a careful review by a knowledgeable licensed contractor. that which for any reason were not resolved during the bidding negotiation process or through the use of Requests for Information, Further, the Builder shall carefully review these plans as the work progresses in order to identify any errors and omissions and to ascertain all necessary information before proceeding with the affected work, and assumes the risk of any and all loss including delay, which may be caused or contributed to by the failure to ascertain correct or necessary information in a timely manner
- 5. The Builder shall verify all conditions and dimensions in the field; and all questions as to dimensions and field conditions shall be resolved before the affected work proceeds. No dimensions shall be obtained by scaling these plans, In interpreting these plans, the following general rules apply:

 • Written dimensions shall take precedence over scaled drawings
 - . Specific notes and details shall take precedence over general notes and typical details.
- Work not particularly shown or specified shall be the same as similar parts that are shown or specified,
- 6. Requests for Information ("RFI's") are intended for the providing of information not available in the Construction Documents. RFIs will not be processed that can be answered by a review of the Construction Documents, that request imensions that can be obtained from the Construction Documents by straightforward mathematical calculation, that in effect are substitution submittals, that concern job site safety, or that requests field detalls. Where appropriate. RFIs should specify which portion of the Construction currents needs clarification, and what infor
- 7. The general building permit and plan check fee shall be secured and paid for by the Builder. All of the permits shall be taken out and paid for by the duilder or by such subcontractor as the Builder may direct.
- 8. The Builder shall be responsible for providing and maintaining temporary water supply, light/power, toilet facilities and job site office with telephone and
- 9. The Builder shall lurnish all laboratory tests, inspections and reports that are required by these plans or by law
- The Builder shall provide shop drawing submittals for those aspects of the work identified roof trusses, floor trusses; and each submittal shall contain five copies of the involved documentation. Submittals will be reviewed by the Architect, if at all, only pursuant to the industry-standard protocol set forth in AIA Document A201-2007; and in no event will the submittal review process relieve or lessen the submitting contractor's responsibility for an inappropriate
- 11, Design/build contractor submittals will be reviewed by the Architect only for conformance with the aesthelic aspects and major space limitations of the Project; and each design/build contractor is responsible for (i) preparing all the engineering and other drawings and specifications for the components of its design/build undertaking; (ii) complying with the Project's requirements and space limitations: (iii) coordinating and interfacing with other trades and consultants; (iv) obtaining any required or appropriate approvals from authorities having jurisdiction of other Project; and (v) having their design consultants serve as the Professional of Record for the portions of work
- 12. No substitutions shall be submitted to the Architect unless it has first been approved in writing by the Owner.

13. All trades shall, at all times, keep the premises free from accumulation of waste materials or rubbish caused by their work, and at the completion of the work shall remove all rubbish. from and about the job site and all their tools, scattolding and surplus materials, and shall leave, the job broom clean, including emoving all labels, stickers, paint smears, etc., from lighting fixtures, plumbing fixtures, glass surfaces, finish hardware, cabinets, counter tops, etc.,

END OF SECTION

SECTION 01010 - SUMMARY OF WORK

- A. The Project consists of a Dunley (two-family) Home Project Location: Santa Rosa, Sonoma County, California
- B. Builder: Focus Reafty, 3675 Mt. Diablo Boulevard, Suite 350, Lafayette, California, 94549, Construction Documents, dated December of 2019 were prepared for the Project by William Hezmalhalch Architects, 5000 Executive Parkway, Suite 375, San Ramon, California, 94583. No construction shall begin until final FOR CONSTRUCTION sets have been issued by the Architect.
- C. Governing Codes: All work shall comply with all applicable sections of the
- 2016 California Residential Code, Title 24 Part 2.5 (2015 IRC)
- 2016 California Building Code, Title 24 Parts 2, 8 & 10 (2015 IBC) 3. 2016 California Electrical Code, Title 24 Part 3 (2014 NEC)
- 4. 2016 California Mechanical Code, Title 24 Part 4 (2015 UMC)
- 2016 California Plumbing Code, Title 24 Part 5 (2015 UPC)
- 6. 2016 California Energy Code, Title 24 Part 6 7. 2016 California Fire Code, Title 24 Part 9 (2015 IFC)
- 2016 California Green Building Standards Code, Title 24 Part 11
 2016 California Referenced Standards California Code of Regulations, Title
- 10. Soils Report No. 3047.05.08.1 Date: 10/18/16

END OF SECTION

SECTION 01035 - MODIFICATION PROCEDURES

1.1 GENERAL

A. Changes in the Work: The Architect will issue instructions authorizing changes in the Work on the Architect's formal,

- B. Client-Initiated Change Orders: The Architect will issue a written description of proposed changes in the Work that require adjustment to the Construction Documents or Specifications. The description may include supplemental or revised Drawings and Specifications
- C. Sub-Contractor-Initiated Proposals: When unforeseen conditions require modifications, the Sub- Contractor may submit a request for a change to the Client and Architect for approval,
- . Describe the proposed change, Indicate reasons for the change and the effect of the change on the Construction Documents, Specifications or

1.2 PRODUCTS (Not Applicable)

1.3 EXECUTION (Not Applicable)

END OF SECTION

SECTION 01040 - COORDINATION

- A. This Section includes the Builder, Contractor's, and Sub-Contractor requirements for coordinating construction operations including, but not necessarily limited to, the following:
 - Coordination drawings.
 - Administrative and supervisory personnel.
 - 3. Cleaning and protection.

1.2 COORDINATION

- A. It shall be the Builder, Contractor's, and Sub-Contractor responsibility to coordinate construction to assure efficient and orderly installation of each part of the Work in a manner consistent with the requirements of the plans and specifications, applicable building codes and ordinances manufacturer requirements and industry standards. Coordinate operations that depend on each other for proper installation, connection, and operation.
 - 1.7 Schedule operations in the sequence required to obtain the best results where installation of one part depends on installation of other components, before or after its own installation.
- Coordinate installation of different components to assure maximum accessibility for maintenance, service, and repair. 3. Make provisions to accommodate items scheduled for later installation
- R. Where necessary, it shall be the Builder's responsibility to prepare a memoranda for distribution to each party involved, outlining procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.

- C. Administrative Procedures: It shall be the Builder's responsibility to coordinate scheduling and timing of required procedures with other activities to avoid conflicts and assure orderly progress. Such activities include, but are not limited to the following:
- Preparation of schedules,
- Delivery and processing of submittals.
- Progress meetings.
- Project close-out activities.
- D. Conservation: It shall be the Builder's responsibility to coordinate construction to assure that operations are carried out with consideration for conservation of energy, water, and materials.
- 1,3 PRODUCTS (Not Applicable)

1.4 EXECUTION

- A. Inspection of Conditions: Require Installers of any components to inspec substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected
- B. Clean and protect construction in progress and adjoining materials, during handling and installation. Apply protective covering to assure protection from
- C. Clean and maintain completed construction as necessary through the construction period. Adjust and lubricate operable components to assure operability without damaging effects
- D=1 imiting Exposures: Supervise construction to assure that no part is subject to harmful, dangerous, or damaging exposure. Such exposures include, but are not limited to, the following:
- Excessive static or dynamic loading.
- Excessive internal or external pressures
- Excessively high or low temperatures.
- Water or ice. Solvents and chemicals
- Ahrasinn.
- 7. Soiling, staining, and corrosion.
- 9. Ultraviolet rays...

END OF SECTION

SECTION 01200 - PROJECT MEETINGS

1.1 GENERAL

- A. This Section specifies administrative and procedural requirements for project meetings, including:
 - 1, Pre-construction meetings
- Pre-installation meetings

- It shall be the responsibility of the Builder to schedule and coordinate said meetings to include, but not be limited to, Builder's representatives Sub-contractors. Architect and Sub-consultants, Installers and any of the
- C. Agenda: Discuss items that could affect progress, including the following: Tentative construction schedule.
- Critical work sequencing.
- Submittal of Shop Drawings, Product Data, and Samples.
- 4. Use of the premises.
- D. Preinstallation Conferences: It shall be the Builder, Contractor and Sub-Contractor's responsibility to conduct a conference before each activity that requires coordination with other operations.
- E. Attendees: The Installer and representatives of manufacturers and fabricators involved in or affected by the installation shall attend.
- 1. Review the progress of other operations and preparations for the activity under consideration at each preinstallation conference, including requirements for the
 - a. Compatibility problems and acceptability of substrates.
 - b. Time schedules and deliveries.
 Manufacturer's written instructions.

 - d. Warranty requirements. Inspecting and testing requirements.
- 2. The Builder shall record significant discussions and agreements and disagreements, and the approved schedule. Promptly distribute the record of the meeting to everyone concerned, including the Architect and Consultants
- 3. Do not proceed with the installation if the conference cannot be successfully concluded, Initiate actions necessary to resolve problems and reconvene the conference.

END OF SECTION

SECTION 01300 - SUBMITTALS

A. Submittal Procedures: It shall be the Builder, Contractor, and Sub-Contractor's responsibility to coordinate operations... Transmit (7) days prior to commencement of construction operations to avoid delay.

- 1. Coordinate submittals for related operations to avoid delay because of the need to review submittal preparation with construction, fabrication, and other submittals, and activities that require sequential submittals concurrently for coordination. The Architect reserves the right to withhold action on a submittal requiring coordination until
- ed submittals are received, 2. Submittal Preparation: Place a permanent label on each submittal for identification, Provide a label or beside title the block to record review and approval markings and action taken. Include the following information on the label for processing and recording action taken
- a. Project name...
- c. Name and address of the Architect. d. Name and address of the Client.
- Name and address of the Subcontractor.
- Name and address of the supplier.
- Name of the Manufacturer.
- h. Number and title of appropriate Specification Section.
- Drawing number and detail references, as appropriate. Statement of compliance with Manufacturer requirement
- 3. Submittal Transmittal: Package each submittal appropriately. Transmit with a transmittal form. 4. Review by the Architect is for the limited purpose of assessing the
- submittal's general conformance with the design concept of the project and general compliance with the plans and specification \boldsymbol{B}_{\ast} Shop Drawings: Submit newly prepared information drawn to scale. Promptly indicate deviations from the Construction Documents. Do not reproduce
 - 1. Dimensions
- 2. Identification of products and materials included by sheet and detail number...

Construction Documents or copy standard information. Include the following

- 3. Compliance with standards.
- 4. Notation of coordination requirements.
- Notation of dimensions established by field measurement.
 Review by the Architect is for the limited purpose of assessing the submittal's general conformance with the design concept of the project and general compliance with the plans and specifications. Do not use shop drawings without an appropriate final stamp indicating action
- C. Product Data: Collect Product Data into a single submittal for each element of construction. Mark each copy to show applicable choices and options Where Product Data includes information on several products, mark copies to indicate applicable information,
 - 1. Include the following information
 - a. Manufacturer's written instructions.
 - . Compliance with trade association standards,
 - Compliance with recognized testing agency standards.
 - Application of testing agency labels and seals.

 Notation of dimensions verified by field measurement
- Notation of coordination requirements.
 Submittals: The number of submittal copies will be determined by the
- Architect at the pre-construction conference,

 a. Unless noncompliance with Construction Documents is observed,
- the submittal serves as the final submittal. 3. Distribution: It shall be the Builder's responsibility to furnish copies to Installers, subcontractors, suppliers, and others required for performance of construction activities. Show distribution on transmitta forms. Do not proceed with installation until a copy of Product Data is in
- the Installer's possession. a. Do not use unmarked Product Data for construction
- D. Samples: Sub-contractor shall submit to the Builder full-size Samples cured and finished as specified and identical with the material proposed. Mount Samples to facilitate review of qualities.
 - 1. Include the following:
 - a. Specification Section number and reference. Generic description of the Sample.
 - Sample source.

from the Manufacturer certifying compliance.

- Product name or name of the Manufacturer. Compliance with recognized standards.
- Availability and delivery time, E. Quality Assurance Submittals: Submit to the Builder quality control submittals,
- including design data, certifications, Manufacturer's instructions, and Manufacturer's field reports required under other Sections of the 1. Certifications: Where certification that a product or installation complies with specified requirements is required, submit a notarized certification
- Architect's Action: Except for submittals for the record or information, where action and return are required, the Architect will review each submittal, mark to indicate action taken, and return. Compliance with specified
- characteristics is the Client's responsibility.

 1. Action Stamp: The Architect will stamp each submittal with an action stamp. The Architect will mark the stamp appropriately to indicate the

1.2 PRODUCTS (Not Applicable)

1.3 EXECUTION (Not Applicable)

END OF SECTION

SECTION 01631 - SUBSTITUTIONS

1.1 GENERAL

- A. Substitutions: Changes in products, materials, equipment, required by the Construction Documents proposed after award of the Contract are considered requests for substitutions. The following are not requests for substitutions:
 - Substitutions requested during the bidding period and accepted by Addendum prior to award of the Contract.
 - Revisions to the Construction Documents requested by the Builder
 - Specified aptions included in the Construction Documents. 4. Sub-Contractor's compliance with regulations issued by governing
 - authorities

B. Substitution Request Submittal:

- 1. Submit 3 copies of each request for substitution to the Builder
- Idenlify the product or method to be replaced in each request. Include related Specification Section and Drawing numbers.
- Provide documentation showing compliance with the requirements for substitutions and the following information:
- a. Coordination information, including a list of changes needed to other Work that will be necessary to accommodate the
- b. A comparison of the substitution with the Work specified, including performance, weight, size, durability, and visual effect.
- c. Product Data, including Drawings and descriptions of products procedures. and installation d. Samples, where applicable or requested e. A statement indicating the effect on the Sub-contractor's
- Construction Schedule compared to the schedule without approval of the substitution, Indicate the effect of the substitution on Contract Time.
- 1. Certification that the substitution conforms to the Construction Documents and is appropriate for the applications indicated, g., The Sub-contractor's waiver of rights to additional payment or time that may become necessary because of the failure of the

1.2 PRODUCTS

A. Conditions: The Architect will receive all substitution directly from the Builder. and consider a request for substitution when one or more of the following conditions are satisfied. Otherwise, the Architect will return to the Builder the requests without action except to record noncompliance with these

substitution to perform adequately...

- 1. Extensive revisions to the Construction Documents are not required.
- Changes are in keeping with the intent of the Construction Documents. 3. The specified product cannot be provided within the Builder schedule. The Architect will not consider the request if the specified product cannot be provided as a result of failure to pursue the Work promptly. The request is related to an "or-equal" clause.

5. The substitution offers the Builder a substantial advantage, in cost,

compensation to the consultants for redesign and increased cost of 6. The specified product cannot receive approval by a governing authority,

considerations, after deducting

1.3 EXECUTION (Not Applicable)

time, or other

END OF SECTION SECTION 03300 - CAST-IN-PLACE CONCRETE

and the substitution can be approved.

1.1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacture or industry standards have been resolved prior to the fabrication of the work.
- B. Refer to Structural Engineer's drawings and calculations for all product requirements and specifications.

END OF SECTION

FOCUS REALTY SERVICES INC.



ORANGE COUNTY . LOS ANGELES . BAY AREA



REALTY SERVICES INC. TTE, CALIFORNIA TT PLACE) BENET ROSA, FOCUS REAL LAFAYETTE, (A.K.A. F SANTA F

SCALE NOT PLANS

ALW00D

AND/

REVISIONS DESCRIPTION NO. DATE

GENERAL NOTES

PROJECT MANAGER	
DESIGNER:	M.R.
DRAWN BY:	
REVIEWED BY :	
1ST BLDG_DEPT_SUBMITTAL:	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER :	2019034
CAD FILE NAME :	AUGN LDWG

DATE 12-30-2019

GN₁

SECTION 05500 - METAL FABRICATIONS

1,1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications. California Residential Code requirements, manufacturer recommendations and industry standard applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Submittals: In addition to Product Data, submit the following: Shop Drawings

1.2 PRODUCTS

- A. General: Provide materials with smooth, flat surfaces without blemishes.
- B. Ferrous Metals: As follows:
 - Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
 - 2. Bolls, Nuts and Screws: ASTM A 307 Grade A.
- Steel Tubing: Cold-formed steel lubing complying with ASTM A 500. 4. Steel Pipe: ASTM A 53, standard weight (Schedule 40), unless otherwise indicated.
- 5. Iron Castings: ASTM A 47, Grade 32510 malleable iron or ASTM A 48, Class 30 gray iron.
- 6. Concrete Inserts: Threaded or wedge type; galvanized ferrous castings either ASTM A 47 malleable iron or ASTM A 27/A 27M cast steel Provide bolts, washers, and shims as needed, hot-dip galvanized per ASTM A 153/A 153M.

C. Aluminum: As follows:

- Extrusions: ASTM B 221, alloy 6063-T6.
- D. Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements in FS TT-P-664 and compatible with finish paint systems indicated,
- E. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds steel, complying with SSPC-Paint 20.
- F. Fasteners: Provide Type 304 or 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633. Class Fe/Zn 5, where built into exterior walls, Select lasteners for type, grade, and
- G. Nonshrink, Nonmetallic Grout: Factory-packaged, non staining, non corrosive. non gaseous grout complying with ASTM C 1107.
- H_{*} Fabrication, General: Use connections that maintain structural value of joined pieces. Shear and punch metals cleanly and accurately. Remove burrs,

 1. Weld corners and seams continuously, Use materials and methods that
- minimize distortion and develop strength and corrosion resistance of base metals. Obtain fusion without undercut or overlap. Remove welding flux immediately. Finish exposed welds smooth and blended.
- 2. Fabricate joints that will be exposed to weather in a manner to exclude
- 3. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Locate joints where least conspicuous.
- Miscellaneous Framing and Supports: Provide steel framing and supports that are not a part of structural-steel framework as necessary to complete the Work, Fabricale from structural steel of welded construction, Cut, drill, and tap units to receive hardware, hangers, and similar items.
- J. Miscellaneous Steel Trim: Fabricate units with continuously welded joints and smooth exposed edges. Miler corners and use concealed splices where possible. Provide cutouts, littings, and anchorages; coordinate assembly and installation with other work
- K. Pipe Bollards: Fabricate from Schedule 40 steel pipe
- L. Finish metal fabrications after assembly. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Shop prime ferrous-metal items not indicated to be galvanized.
- 1... Hot-dip galvanize items indicated to be galvanized to comply with ASTM A 123 or ASTM A 153/A 153M as applicable...
- 2. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to cornely with SSPC-SP 3, "Power Tool Cleaning."
- 3. Apply shop primer to comply with SSPC-PA 1, "Shop, Field Maintenance Painting of Steel" for shop painting.

1.3 EXECUTION

- A. All welding used in fabrication and installation will conform to the standards of the American Welding Society (AWS) for its intended use.
- B. Installation, General: Provide anchorage devices and fasteners for securing metal fabrications to in-place construction, Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, with edges and surfaces level, plumb, and true
- 1. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
- 2. Fit exposed connections accurately together. Weld connections, unless otherwise indicated. Do not weld, cut, or abrade galvanized surfaces.
- C. Set bearing and leveling plates on cleaned surfaces using wedges, shirns, or leveling outs. After bearing members have been positioned and plumbed. lighten anchor bolts and pack with nonshrink, nonmetallic grout

- D. Anchor bollards in place with concrete footings, Support and brace bollards in osilion in footing excavations until concrete has been placed and cured,
- E. Fill bollards solidly with concrete, mounding top surface
- F. Touch up shop paint after erection, Clean field welds, bolted connections, and abraded areas and paint with the same material as used for shop painting,
- G. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

SECTION 06100 - ROUGH CARPENTRY

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements. Manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code. Manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Refer to Structural Engineers drawings and calculations for all product
- C. Provide sealant beneath all exterior sill plates for moisture and thermal

END OF SECTION

SECTION 06200 - FINISH CARPENTRY

A: Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant That any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work,

- Lumber Standards: Comply with "American Softwood Lumber Standard PS 20," for lumber and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.
- B.: Softwood Plywood: Comply with DOC PS1-95, "U.S. Product Standard for Construction and Industrial Plywood,
- Hardwood Plywood: Comply with HPVA HP-1, "Interim Voluntary Standard for Hardwood and Decorative Plywood."
- D. Preservative Treatment: Comply with NWWDA I.S. 4 for exterior finish
- Fasteners for Exterior Finish Carpentry: Provide nails of stainless steel, hot-dip galvanized steel, or non corroding aluminum.

- A. Condition finish carpentry to average prevailing humidity conditions in installation areas before installation, for a minimum of 24 hours,
- B. Prime and backprime, for painted finish, all exposed wood on the exterior, including field cuts, prior to installation. Comply with requirements for surface preparation and application in Section 09900 - Painting
- C. Install finish carpentry plumb, level, true, and aligned with adjacent materials Use concealed shims where required for alignment. Scribe and cut finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by
- D. Standing and Running Trim: Install with minimum number of joints practical using full-length pieces from maximum lengths of lumber available. Stagger joints in adjacent and related trim. Cope at returns and miter at corners.
- E. Paneling: Install according to Manufacturer's written instructions. Select and arrange units on each wall for best match of adjacent units where grain character or color variations are noticeable. Install with uniform tight joints
- F. Siding: Install siding and flashing according to Manufacturer's written instructions. Do not allow nails to penetrate more than one thickness of siding, unless otherwise recommended by siding manufacturer, Seal joints at inside and outside corners and at trim locations.
- G. Repair damaged or defective finish carpentry where possible to eliminate functional or visual defects. Where not possible to repair, replace finish carpentry. Adjust joinery for uniform appearance.

END OF SECTION

SECTION 06402 - INTERIOR ARCHITECTURAL WOODWORK

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, Manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, Manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Interior Architectural woodwork includes wood furring, blocking, shims, base, case, linish moldings, and hanging strips unless concealed within other construction prior to woodwork installation,
- C. Rough carriages for stairs are a part of interior Architectural woodwork, Platform framing and other rough framing associated with stairwork are specified in Section 06100 - "Rough Carpentry,"
- Submittals: In addition to product data, submit the following: Shop drawings showing location of each item, dimensioned plans and elevations, large scale details, attachment devices, and other
- E. AWI Quality Standard: Comply with "Architectural Woodwork Standards 2nd Edition" of the Architectural Woodwork Institute.
- Fa Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wel-work is completed, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.

A. Woodwork fabricators: Subject to compliance with requirements provide Architectural cabinets as selected by the Builder.

- A. Preparation: Condition woodwork to average prevailing humidity conditions in installation areas, and examine and complete work as required, including back priming and removal of packing, before installing,
- B. Install woodwork to comply with AWI Section 1700 for the same grade specified above for type of woodwork involved.
- C. Install woodwork to comply with AWI Section 26 for the same grade specified above for type of woodwork involved.
- 1. Install woodwork plumb, level, true, and straight with no distortions. Shim as required with concealed shims. Install to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
- 2. Scribe and cut woodwork to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts
- D. Standing and Running Trim: Install with minimum number of joints. using full-length pieces to the greatest extent possible, Stagger joints in adjacent and related members. Fill gaps, if any, between top of base and wall with plastic wood filler and sand smooth
- E. Tops: Anchor securely to base units. Seal space between backsplash and
- F. Paneling: Anchor paneling to supporting substrate with concealed panel-hanger clips and by blind nailing on backup strips, splined-connection strips, and similar associated trim and traming
- G. Stairwork and Rails: Cut carriages to accurately fit Ireads and risers and securely anchor to supporting substrates. Glue treads to risers, and glue and screw treads and risers to carriages. Glue and wedge treads and risers to housed stringers. Glue and dowel or pin balusters to treads and railings, and railings to newel posts as required per Manufacturer printed installation

END OF SECTION

NOT USED

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, Manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, Manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Submittals: (Not Applicable)
- Fire Test Response Characteristics: Provide insulation and related materials with the fire test response characteristics indicated as determined by testing identical products per ASTM E 84, ASTM E 119, or ASTM E 136 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

1.2 PRODUCTS

- A. General: Provide insulating materials that comply with requirements by the Title-24 Energy Consultant's calculations and with referenced standards. Preformed Units: Sizes to fit applications indicated; selected from Manufacturer's standard
- Energy Code 150.0(a)... D. All loose-fill insulation shall meet the requirements of California Energy Code Section 150.0(b).
- All wall insulation shall meet the requirements of California Energy Code Section 150.0(c)
- All raised floor insulation shall meet the requirements of California Energy Code Section 150.0(d).

1.3 EXECUTION

- instructions applicable to products and application indicated
 - 1. Install insulation that is undamaged, dry, unsoiled, and has not been exposed at any time to ice and snow. 2. Extend insulation in thickness indicated to envelop entire area to be

END OF SECTION

SECTION 07310 - CEMENTIOUS FIBER REINFORCED LAP SIDING

1.1 GENERAL

A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, Callfornia Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the

NOT USED

SECTION 07210 - BUILDING INSULATION

1.1 GENERAL

- B. Provide R-values as indicated in the Title-24 Energy Consultant's calculations. All ceiling and rafter roof insulation shall meet the requirements of California

- A. Installation, General: Comply with insulation Manufacturer's written
- insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

 3. Apply single layer of insulation to produce thickness indicated, unless
- multiple layers are otherwise shown or required to make up total thickness.

NOT USED

B. Submit Product Data for each type of product specified

D. Cementious Fiber Reinforced Lap Siding Grading Standards: Comply with

A. Manufacturers: Subject to compliance with requirements, provide siding

A. Smooth and Cedarmill: Thickness: 5/16', Weight: 2.3 lbs./s/l, Width: 6 1/4" (5" exposure), 8 1/4" (7" exposure), 9 1/2" (8 1/4" exposure), 12" (10 3/4" exposure), all widths 12 feet

b. Colonial Smooth and Colonial Roughsawn: Thickness: 5/16

12 leet long, c. Beaded Smooth and Beaded Cedarmill: Thickness: 5/16",

Weight: 2.3 lbs./sf, Width 8" (6 3/4" exposure), all widths

Weight: 2.3 lbs:/sf, Width 8 1/4" (6" exposure), all widths 12

d. Flexural Strength: Typical flexural strength based on Equilibrium

Moisture Content in accordance with ASTM test method

e. Burning Characteristics: Provide product with no flame support

1. Surface Burning Characteristics: Provide Flame Spread: 0, Fuel

g. Durability: Provide product that will not rot and provides

1. Overlapping Planks: Use 6D common-type nails to attach siding at

2. Single Plank: Use 1 1/4" long corrosion resistant roofing nail at each

h. Nails: Hot-dip galvanized nails or Type 304 or 316

A. Examine substrates for compliance with requirements for substrates,

installation tolerances, and other conditions affecting performance of Work

Clean substrates of projections and substances detrimental to application,

Siding should be stacked on edge or laid flat on a smooth, level surface.

performance, store siding under cover and keep dry prior to installing, If

siding should become wet, allow to dry thoroughly before installing.

D. Coordinate installation with flashing and other adjoining work to ensure

E. Installation, General: Comply with manufacturer's written installation

Edges and corners should be protected from chipping. To ensure optimum

specified in this Section. Do not proceed with installation until unsatisfactory

framing member.

Cover knotholes or other minor voids in substrate,

Contribution: 0, Smoke Development: 0 when tested in accordance with ASTM test method E-84,

resistance to permanent damage from water and salt

when tested in accordance with ASTM

1. National Evaluation Service (NES) Inc., Report No: NER-405 (Re-issued

C. Submit samples of each type of siding specified.

1. James Hardie Building Products

feet long.

C1185.

framing member.

conditions have been corrected.

proper sequencing.

END OF SECTION

1.3 EXECUTION

Along direction of sheet: 1850 psi

or loss of integrity

lest method E-136.

Across direction of sheet: 2500 psi

April 2004).

1.2 PRODUCTS

FOCUS REALTY SERVICES INC.

ARCHITECTS , PLANNERS , DESIGNERS



ORANGE COUNTY - LOS ANGELES - BAY AREA



REALTY SERVICES INC. TTE, CALIFORNIA . BENETT PLACE) , ROSA, CALIFORNIA ALW00D

FOCUS REAL LAFAYETTE, AND/ (A.K.A. SANTA

DO	NOT	SCALE	PLANS
	REV	ISIONS	;
NO.	DATE	DESCI	RIPTION
-		-	
-			

GENERAL NOTES

PROJECT MANAGER	
DESIGNER:	M.R.
DRAWN BY :	
REVIEWED BY :	
1ST BLDG_DEPT_SUBMITTAL:	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER :	2019034
CAD FILE NAME	A0GN1,DWG

GN₂ 12-30-2019

1.2 PRODUCTS

- A. Provide composition shingles by GAF (or approved equal)
- Colors, Blends, and Patterns: Where Manufacturer's standard products are indicated, provide rooling tiles that match the color schedule.

- A. Examine substrate for compliance with requirements for substrates installation tolerances, and other conditions affecting performance of Work of this Section. Do not proceed with installation until unsatisfactory conditions have been
- Clean substrates of projections and substances detrimental to application. Cover knotholes or other minor voids in substrate with sheet metal flashing
- Coordinate installation with flashing, gutters, and other adjoining Work to ensure proper sequencing. Do not install roofing materials until all vent stacks and other penetrations through roof sheathing have been installed and are securely fastened against movement
- Installation: Comply with Manufacturer's written instructions but not less than those recommended by ARMA's "Residential Asphalt Roofing Manual" or "The NRCA Steep-Slope Rooling Manual."
- Valleys: Comply with ARMA and NRCA recommendations.
- Flashing: Install metal flashing and trim according to details and idations of the "Asphalt Roofing" section of "The NRCA Steep-Roofing Manual* and ARMA's "Residential Asphalt Roofing Manual."
- Shingles: Install shingles, beginning at roof's lower edge, with a starter strip. Fasten shingles in the desired weather exposure pattern with number of fasteners per shingle as recommended by Manufacturer. Cut and fit shingles at valleys, ridges, and edges to provide maximum weather protection. Provide same weather exposure at ridges as specified for roof.
- Replace damaged materials installed under this Section with new materials that meet specified requirements.

END OF SECTION

SECTION 07620 - SHEET METAL FLASHING AND

1.1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residentia Code requirements, Manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warran that any concerns reparding the requirement of the plans and specifications and any inconsistency of conflicts with Code, Manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B: Submittals: (Not Applicable)

1.2 PRODUCTS

- A. Provide sheet metal flashing and trim for the following
 - Through-Wall Flashing

 - 3. Roof Flashing
 - Door and Window Flashing
 Through the wall beam and outlooker projections.
 - Penetrations through horizontal surfaces. Changes of surfaces.
- Galvanized Steel Sheet: ASTM A 526, G 90, commercial quality, or ASTM A 527, G 90, lockforming quality, hol-dip galvanized, mill phosphatized where indicated for painting; not less than 0,0396 inch thick, unless otherwise
- Reglets: Profile indicated; 0.0187-inch- thick stainless steel.
- D. Miscellaneous Materials and Accessories as follows:
- Solder: ASTM B 32, Grade Sn50, 2. Fasteners: Noncorrosive metal. Match finish of exposed heads with material being fastened.
- Asphalt Mastic: SSPC-Paint 12, asbestos free, solvent type.
- Roofing Cernent: ASTM D 4586, Type I, asbestos free, asphalt based.
 Mastic Sealant: Polyisobutylene; non hardening, non skinning,
- nondrying, non migrating sealant.
- 6. Elastomeric Sealant: As specified in Section 07900 "Joint Sealants."
- 7. Epoxy Seam Sealer: 2-part, non corrosive, aluminum seam-cementing
- 8. Adhesives: Type recommended for waterproof and weather-resistant seaming and adhesive.
- 9. Clips, Straps, Anchoring Devices, and Similar Accessories: Compatible with material being installed.

C. Project Conditions:

B. Delivery, Storage, and Handling:

- 1. Environmental Conditions: Do not proceed with Installation of joint following conditions:
- a. When ambient and substrate temperature conditions are outside the limits permitted by joint sealer manufacturers written instructions.
- b. When ambient and substrate temperature conditions are outside the limits permitted by joint sealer manufacturer or below 40 deg F (4.4 deg C).
- When joint substrates are well due to rain, frost, condensation, or

- 2. Joint Width Conditions: Do not proceed with Installation of joint sealers where joint widths are less than allowed by joint sealer manufacturer for application indicated.
- 3. Joint Substrate Conditions: Do not proceed with installation of joint contaminants capable of interfering with their sealers until adhesion are removed from joint substrates...

1.2 PRODUCTS

 $E_{\rm ac}$ Fabricate sheet metal flashing and trim to comply with recommendations of

SMACNA's "Architectural Sheet Metal Manual" that apply to the design,

mensions, metal, and other characteristics of the item indicated

Gutters:

Scuppers:

Copings:

11, Drip Edges:

1.3 EXECUTION

12. Eave Flashing: 13, Equipment Support Flashing:

Base Flashing

Counterflashing:

Flashing Receivers
 Valley Flashing:

14. Roof-Penetration Flashing

dust zinc-oxide primer over all surfaces.

15. Color and Gloss: Match Architect's color schedule.

Shop Finish: All galvanized metal should be shop primed with 1 coat of zinc

A. Installation: Comply with Manufacturer's written instructions and SMACNA's

line and level as indicated, install Work with laps, joints, and seams

'Architectural Sheet Metal Manual" allow for thermal expansion; set true to

permanently waterlight and weatherproof; conceal fasteners where possible

Expansion Provisions: Provide for thermal expansion of exposed sheet metal

Work. Space movement joints at maximum of 10 feet with no joints allowed

weatherproof and waterproof, form expansion joints of intermeshing hooked

within 24 inches of corner or intersection. Where lapped or bayonet-type

expansion provisions in Work cannot be used or would not be sufficiently

flanges, not less than 1 inch deep, filled with mastic sealant (concealed

C. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign

except where pretinned surface would show in finished Work.

D. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate elastomeric sealant to comply with SMACNA standards. Fill

joint with sealant and form metal to completely conceal sealant.

1. Do not solder aluminum.

of items penetrating roof-

SECTION 07900 - JOINT SEALERS

END OF SECTION

1-1 GENERAL

matter. Pretin edges of sheets to be soldered to a width of 1-1/2 inches,

E. Seams: Fabricate non moving seams in sheet metal with flat-lock seams. Tin

 F_{ϵ_0} Seams: Fabricate non moving seams in aluminum with flat-lock seams. Form

G. Separations: Separate non compatible metals or corrosive substrates with a coating of asphalt mastic or other permanent separation as recommended by

Counterflashings: Coordinate installation with installation of assemblies to be

protected by counterflashing. Install counterflashings in reglets or receivers.

Secure in a waterproof manner by means of snap-in installation and sealant, lead wedges and sealant, interlocking folded seam, or blind rivets and

equipment installation. Weld or seal flashing to equipment support member.

J. Roof-Penetration Flashing: Coordinate installation with roofing and installation

A. Builder Contractor and Subcontractor warrant that they are personally

knowledgeable regarding the plans and specifications, California Residential

Code requirements, manufacturer recommendations and industry slandards

applicable to their work and that their work will be performed to the highest

applicable standards, Builder, Contractor and Subcontractor's further warrant

that any concerns regarding the requirement of the plans and specifications,

and any inconsistency of conflicts with Code, manufacturer or industry

1. Deliver materials to Project site in original unopened containers or

2, Store and handle materials in compliance with manufacturer's written

instructions to prevent their deterioration or damage due to

moisture, high or low temperatures, contaminants, or other causes.

bundles with labels informing about manufacturer, product name and

designation, color, expiration period for use, pot life, curing time, and

standards have been resolved prior to the fabrication of the work.

mixing instructions for multicomponent materials...

sealant. Lap counterflashing joints a minimum of 2 inches and bed with

I. Equipment Support Flashing: Coordinate installation with roofing and

seams and seal with enoxy seam sealer. Rivet joints for additional strength.

FM Loss Prevention Data Sheet 1-49 for specified wind zone.

1. Roof-Edge Flashings: Secure metal flashings at roof edges according to

Conductor Heads

Exposed Trim, Gravel Stops

- A. Manufacturers: Subject to compliance with requirements, manufacturers providing products which may be incorporated to the project include, but are not limited to:
- 1. Dow Coming
- General Electric Co.
- 3. Tremco.
- B._ Compatibility: Provide joint sealers, joint fillers and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by testing and field
- C. Colors: Provide colors of exposed joint sealers to match adjacent surfaces.

D, Sealant Materials

- 1. Type I sealant: Acrylic base, single component, solvent curing; capable of being continuously immersed in water, withstand movement of up. to 7.5 percent of joint width and satisfactorily applied throughout a temperature range of 40 to 80 degrees F; shore A hardness of maximum 5; non staining, nonbleeding, nonsagging, color as selected: Sonolac manufactured by Sonneborn Chemstruction systems, or equal.
- Type II sealant: Polyurethane base, multi-component, chemical curing; self-leveling type for application in horizontal joints; capable of being continuously immersed in water, withstand movement of up to 25 percent of joint width and satisfactorily applied throughout a emperature range of 40 to 80 degrees F; uniform, homogeneous, and free from lumps, skins, and coarse particles when mixed; Shore A hardness of minimum 25 and maximum 35; non staining, nonbleeding color as selected: THC-900 manufactured by Tremco, or equal-
- 3. Type III Sealant: Polyurethane base, multi-component, chemical curing non-sagging type for application in vertical joints; withstand movement of up to 40 percent of joint width and satisfactorily applied throughout a temperature range of 40 to 80 degrees F; Shore A hardness of minimum 25 and maximum 35; nonsagging, nonbleeding, color as selected, Dymeric manufactured by Tremco, or equal.

E. Joint Sealant Backing:

- 1. General: Provide sealant backings of material and type which are non-staining; are compatible with joint substrates sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- Plastic Foam Joint-Fillers: Preformed, compressible, resilient, non-waxing, non-extruding strips of plastic foam of material indicated below, and of size, shape and density to control sealant depth and otherwise contribute to producing optimum sealant
- 3. Either flexible, open cell polyurethane foam or non-sagging, closed-cell polyethylene foam, unless otherwise indicated, subject to approval of sealant manufacturer.
- 4. Bond-Breaker Tape: Polyethylene tape or other plastic tape as recommended by sealant manufacturer for preventing bond between sealant and joint filler or other materials at back (3rd) surface of joint. Provide self-adhesive tape where applicable.

F. Miscellaneous Materials:

- Primer: Provide type recommended by joint sealer manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint and field tests.
- 2. Cleaners for Nonporous Surfaces: Provide non-staining, chemical cleaner of type acceptable to manufacturer of sealant and sealant backing materials which are not harmful to substrates and adjacent
- 3. Masking Tape: Provide non-staining, non-absorbent type compatible with joint sealants and to surfaces adjacent to joints.

- A₁₁ Require Installer to inspect joints indicated to receive joint sealers for compliance with requirements for joint configuration, installation tolerances and other conditions affecting joint sealer performance.
- Surface cleaning of joints: Clean out joints immediately before installing joint sealers to comply with recommendations of joint sealer manufacturers and the following requirements:
- 1. Remove all foreign material from joint substrates which could interfere with adhesion of joint sealer, including dust; paints, except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer; oil; grease;
- waterproofing; water repellents; water; surface dirt and frost.

 2. Clean concrete, masonry, unglazed surfaces of ceramic tile and similar porous joint substrate surfaces,, by brushing, grinding, blast cleaning, mechanical abrading, acid washing or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealers. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air.
- Remove laitance and form release agents from concrete.
- 4. Clean metal, glass, porcelain enamel, glazed surfaces of ceramic tile and other non-porous surfaces by chemical cleaners or other means which are not harmful to substrates or leave residues capable or interfering with adhesion of joint sealers.

C. Installation of Joint Sealers:

1. General: Comply with joint sealer manufacturer's printed installation structions applicable to products and applications indicated, except where more stringent requirements apply.

- 2. Installation of Sealant Backings: Install sealant backing to comply with the following
- a. Installation of Sealants: Install sealants by proven techniques that results in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant ovement capability.
- b. Tooling of Nonsag Sealants: Immediately after sealant application and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated, to eliminate air pockets and to ensure contact and adhesion of sealant with of ioint. Remove excess sealants from surfaces adjacent to joint, Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
- 3. Protect joint sealers during and after curing period from contact with contamination, substances or from damage resulting from construction operations or other causes so that they are without deterioration or damage at time of substantial completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealers immediately and reseal joints with new materials to produce joint sealer installations with repaired areas indistinguishable from original work
- 4. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

JOINT SEALER SCHEDULE:

6. Type III: Masonry to masonry Glass to metal. 7. Type III: Masonry to metal. Metal to metal.

NOT USED

- 3. Type I: Gypsum board to gypsum board. Wood to wood.
- 4. Type I: Gynsum hoard to dissimilar material. Wood to masonry. 5. Type 11: Horizontal joints in Iloors and paving. Wood to metal

END OF SECTION

FOCUS REALTY SERVICES INC.

ORANGE COUNTY - LOS ANGELES - BAY AREA



REALTY SERVICES INC. TTE, CALIFORNIA TT PLACE) BENET ROSA, (A.K.A. SANTA FOCUS

ANDALWOOD

DO	NOT	SCALE	PLAN
	REV	ISIONS	3
NO.	DATE	DESC	RIPTION
-			

GENERAL NOTES

PROJECT MANAGER	
DESIGNER:	M.R.
DRAWN BY:	
REVIEWEO BY :	
1ST BLDG_DEPT_SUBM(TTAL:	
(SSUED FOR CONSTRUCTION	
JOB NUMBER :	2019034
CAD FILE NAME :	A0GN1,DWG
DATE:	CHEET:

12-30-2019

GN₃

profiles textures and colors.

C. Quality Assurance: Identify each bundle of shingles with appropriate markings

to ASTM E 108 or UL 790 and listed by UL or another testing and

indicated, provide products identical to those that have passed tests according to ASTM D 3161 or UL 997.

D. Project Conditions

forecasted weather is completely dry-

SECTION 07311 - COMPOSITION SHINGLES

1-1 GENERAL

A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, Manulacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, Manufacturer or industry standards have been resolved prior to the fabrication of the work.

B. Submittals as follows:

1. Product data for each type of product specified, including details of construction relative to materials, dimensions of individual components,

2. Samples for verification purposes in form of two full-size units of each type of roof tile required.

of applicable testing and inspecting agency. 1. Fire-Test-Response Classification: Provide shingles classified according

inspecting agency acceptable to authorities having jurisdiction.

2. Wind-Resistance-Test Characteristics: Where wind-resistant shingles are

Weather Conditions: Proceed with Work only when existing and conditions will permit Work to be installed in compliance with Manufacturer's recommendations and when substrate

NOT USED

SECTION 08212 - WOOD DOORS

1_1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Submittals: (Not applicable)

1.2 PRODUCTS

A. Manufacturers: Subject to compliance with requirements, provide products as selected by the Builder,

Products

- 1... Exterior Doors: solid core as selected by the Builder,
- Interior Doors: hollow core as selected by the Builder.
 Exterior French Doors: 1.3/4" thick as selected by the Builder.
- 4. Garage Door to residence: 1 3/6" solid core with self-closing & self-latching devices. CRC R302.5.1

 5. Wardrobe Doors: As selected by the Builder. Glazing in wardrobe doors
- Wardrobe Doors: As selected by the Builder. Glazing in wardrobe doors shall meet the requirements for safety glazing as set forth per CRC R308.4.
- C. Glazing in all ingress and egress doors, fixed and sliding panels of sliding door assemblies and panels in swing doors shall meet the requirements for safety glazing set forth in CRC R308.
- D. Factory fit doors to suit frame-opening sizes indicated, Comply with clearance requirements of referenced quality standard for fitting. Comply with requirements of NEPA 80 for fire-rated doors.
- E. Factory machine doors for hardware that is not surface applied.
- F. Shop prime exposed portions of doors for paint finish with one coat of wood primer specified in Division 9 Section "Painting,"
- Shop seal faces and edges of doors for transparent finish with stain (if required), other required pretreatments, and first coal of finish as specified in Section 09900 "Painting."

1.3 EXECUTION

- A. Install wood doors to comply with manufacturer's written Instructions, referenced quality standard.
- Install fire-rated doors in corresponding fire-rated frames according to NFPA 80.
- B. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.

END OF SECTION

SECTION 08620 - POLY VINYL CHLORIDE (PVC) ARCHITECTURAL WINDOWS

1.1 GENERAL

- A, Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. This Section Includes:
 - Shop fabricated lubular extruded PVC (Poly Vinyl Chloride) fixed sash and operating units.
- 2. Glass and glazing, operaling hardware and other accessories.
- C. Windows shall comply with the requirements of ANSI/AAMA/NWWDA 1011.5.2 97 (Window and Door Manufacturer's Association).
- Windows to meet performance standards for
- ASTM E 283-91 Test method for infiltration rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen.
- 2. ASTM E 330-90 Test method for structural performance of exterior
- windows, and doors by uniform static air pressure difference.

 3. ASTM E 547-93 Test method for water penetration of exterior windows, curtain walls, and doors by cyclic static air pressure differential.
- E. Comply with manufacturer's instructions for protection of units from damage.
- E. Comply with manufacturers instructions for protection of units from damage
- F. Deliver in manufacturer's protective packaging.
- G. Manufacturer: Company specializing in manufacturing extruded tubular vinyl windows with welded comers and a minimum five years documented experience.

1.2 PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products as selected by the Builder.
- B. Emergency escape and rescue openings shall be per CRC Section R310.
- C. Glazing shall be per CRC Section R308.

- D. Glazing in hazardous locations shall be per CRC Section R308.4
- E. Finishes: Manufacturer finish color to be white.
- F, Insect Screens: Provide insect screens for each operable exterior sash or ventilator, Locate screens on inside or outside of window sash or ventilator, depending on window type. Design windows and hardware to accommodate screens in a light-lifting removable arrangement with a minimum of exposed fasteners and latches.

1.3 EXECUTION

- A. Inspection: Inspect openings before installation. Verify that rough opening is correct and sill plate is level.
- B, Installation: Comply with manufacturer's recommendations for installing window units, hardware, operators, and other components, Set windows plumb, level, and true to line, without warp or rack of frames or sash, Anchor securely in place.
 - Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action.
- C, Field Quality Control: Conduct on-site tests with window manufacturer's representative present. Testing shall be performed by a qualified independent testing agency.
- Air-Infiltration Tests: Conduct according to requirements of ASTM E
 783, Allowable infiltration shall not exceed 1,5 times the
 amount indicated.
- Water-Resistance Tests: Conduct according to requirements of ASTM E 1105. No water leakage is permitted.
- 3. Window units not meeting specified requirements and units having
- A. Adjust operating sash and hardware to provide tight fit at contact points and weatherstripping for smooth operating and a weather tight closure.
- B. Wash down surfaces with solution of mild detergent in warm water, applied with soft, clean wiping cloths, Take care to remove dirt from corners, Wine surfaces clean.
- Clean glass of pre-glazed units promptly after installing windows.
- D. Do not use petroleum distillates to clean windows

END OF SECTION

SECTION 09220 - PORTLAND CEMENT PLASTER (THREE COAT SYSTEM)

1,1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Submittals: Product Data for each product specified and Samples for each type of finish indicated.
- C_{\ast} Fire-Test-Response Characteristics: Where indicated, provide materials and construction identical to those tested per ASTM E 119.

1.2 PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products by following manufacturer: 1. DIAMOND WALL BY OMEGA OR APPROVED EQUAL.
- Expanded-Metal Lath: ASTM C 847, diamond mesh, flat or self-furring configuration and with minimum 3.4-lb/sq, yd. weight.
- C. Accessories: Comply with material provisions of ASTM C 1063 and the requirements indicated below; coordinate depth of accessories with thicknesses and number of plaster coats required.
- Aluminum Components: ASTM B 221 for alloy and temper 6063-T5 or aluminum extrusions with similar properties.
- cr auminum extrusions with striniar properties.

 2. Galvanized Steel Components: Fabricated from zinc-coated (galvanized) steel sheet complying with ASTM A 653,
- G40 minimum coating designation.
 3. Zinc-Alloy Components: ASTM B 69, 99 percent pure zinc.
 4. Plastic Components: ASTM D 4216, high-impact polyvinyl chloride
- (PVC) for building products.

 5. Metal Comerbeads: Fabricated from zinc-coated (galvanized) steel.

 6. Strip Reinforcement: Smooth-edge strips of expanded-metal lath
- fabricated from uncoated or zinc-coated (galvanized) steel sheet.
 Provide comente or stripite form as required.
 Casing Beads: Square-edged style, fabricated from aluminum
 coated with clear plastic, with short or expanded flanges to suit kinds
- of plaster bases indicated.

 8. Curved Casing Beads: Square-edged style, fabricated from aluminum coated with clear plastic, preformed into curve of radius indicated.
- Control Joints: Aluminum coated with clear plastic and adjustable for joint widths from 1/8 to 5/8 inch, Provide elastomeric sheet waterproofing with solid blocking at all joints.
- 10, Foundation Sill (Weep) Screed: Fabricated from zinc-coated (galvanized) steel sheet.
- 11, Steel Drlll Screws: ASTM C 1002.
- D. Asphalt-Saturated Felt: ASTM D 226, Type I (No. 15), nonperforated

- E, Fiber for Base Coat: Alkaline-resistant glass or polypropylene fibers, 1/2 inch long, free of contaminates, manufactured for use in portland cement plaster.
- Acid-Etching Solution: Muriatic acid (10 percent solution of commercial hydrochloric acid) mixed 1 part to not less than 6 nor more than 10 parts water.
- G. Water for Mixino and Finishing Plaster: Potable,
- H. Lime: ASTM C 206, Type S; ASTM C 207, Type S.
- Bonding Agent: ASTM C 932
- J. Base-Coal Cements: White or gray, as required, 1, Portland cement, ASTM C 150, Type I.
- K. Base-Coal Aggregate: ASTM C 897, sand,
- Finish Coat: Material and color as selected by the Architect:
- Job-Mixed Finish Coat: ASTM C 926

 a. Portland cement, ASTM C 150, Type I.
 - Cement Color: Pigmented, factory-packaged standard product consisting of white or gray cement combined with colorfast mineral pigments to match Architect's sample.
- Finish-Coat Aggregate: ASTM C 897, manufactured or natural sand, in color matching Architect's sample,
 Factory-Prepared Finish Coat: Factory-packaged blend of portland
- cement, lime, aggregate, and compatible with base coat and finish texture indicated. Provide color to match Architect's sample.
- $\rm M_{*}$ Mixes and Compositions; Comply with ASTM C 926 for base- and finish-coat mixes as applicable,
- Factory-Prepared Finish Coat: Add water only; comply with finish coat manufacturer's written instructions.
- N_{*} Mixing: Mechanically mix proportioned cementitious and aggregate materials with water to comply with applicable referenced application standard and with recommendations of plaster manufacturer.
- 0. Weather Resistive Barrier: Where drawings call out "building paper provide (2) layers of 60 minute grade 0" building paper throughout the entire exterior envelope, Building paper shall be installed over shuds or sheathing of all exterior walls in a horizontal shingle board fashion up the wall, lapping courses a min, of 6" where vertical joints occur and 2" vertically, Building paper shall overlap an entire stud bay. There shall be no vertical seams over or under any window or door openings.
- P. Exterior Foam Trim: All exterior foam trim shall be wrapped with fiberglass or polymer mesh reinforcing. As an alternative, a polymer cement-coated EPS foam may be used.

1.3 EXECUTION

- A. Lathing and Furring: Install lath and furring indicated to comply with EMLA 920-09, "Guide Specifications for Expanded Metal Lathing and Furring," and with ASTM C 1063.
- B, Install supplementary framing, blocking, and bracing at terminations in work and for support of fixtures, equipment services, heavy trim, grab bars, handralls, furnishings, and similar work to comply with details indicated or, if not otherwise indicated, to comply with applicable written instructions of lath and furning manufacturer.
- C. Isolation: Where lathing and metal support systems abut building structure horizontally and where partition or wall abuts overhead structure, sufficiently isolate from structural movement to prevent transfer of loading from building structure, Install slip- or cushion-type joints to absorb deflections but maintal lateral support.
 - Frame both sides of control joints independently and do not bridge joints with furring and lath or accessories.
- D. Metal Lath: Install metal lath where plaster base coals are required. Provide appropriate type, configuration, and weight of metal lath selected from materials indicated that comply with EMLA 920-09, Table 4 "Guide Specifications for Expanded Metal Lathing and Furring," and with ASTM C 1083
- Suspended and furred ceilings using 3,4-lb/sq, yd, minimum weighl, diamond-mesh lath.
- Vertical metal framing and furring using 3.4-lb/sq. yd. minimum weight, diamond-mesh lath and cold-rolled channel stud framing.
- Ceramic-tile setting beds using 3.4-lb/sq, yd, minimum weight, diamond-mesh lath.
 Exterior sheathed wall surfaces using 3.4-lb/sq, yd, minimum weight, self-turing, diamond mesh lath.
- E. Preparing Solid Surfaces for Plastering: Clean plaster bases and substrates for direct application of plaster, removing loose material and substances that
- may impair the Work.

 1. Etch concrete and concrete unit masonry surfaces indicated for direct plaster application to obtain adequate suction and mechanical bond of plaster (where dash coat, bonding agent, or additive is not used).

 2. Apply bonding agent on concrete and concrete unit masonry surfaces
- Apply bonding agent on concrete and concrete unit masonry surfaces indicated for direct plaster application; comply with manufacturer's written instructions for application.
- Install temporary grounds and screeds to ensure accurate rodding of plaster to true surfaces; coordinate with scratch-coat work,
 Surface Conditioning: Immediately before plastering, dampen surfaces indicated for direct plaster application, except where a bonding agent

has been applied. Moisten to obtain optimum suction for plastering.

- F. Installation of Plastering Accessories: Comply with referenced lathing and furring installation standards for provision and location of plaster accessories of type indicated, Install accessories of type indicated at following locations:

 1. External Corners: Install corner reinforcement at external corners.
- Terminations of Plaster: Install casing beads, unless otherwise indicated.

F. Installation of Plastering Accessories: Comply with referenced lathing and turring installation standards for provision and location of plaster accessories SECTION 09255 - GYPSUM BOARD

of type indicated, Install accessories of type indicated at following locations: 1.1 GENER

3. Control Joints: Install at locations indicated or, if not indicated, at

a. Where an expansion or contraction joint occurs in surface of

b. Distance between Control Joints: Not to exceed 18 feet in either

e. Where plaster panel sizes or dimensions change, extend joints full

construction directly behind plaster membrane.

direction or a length-to-width ratio of 2-1/2 to 1.

Horizontal Surfaces: Not more than 100 sq. ft, in area.

locations complying with the following criteria:

c. Wall Areas: Not more than 144 sq. ft...

width or height of plaster membrane,

G. Plaster Application: Sequence plaster application with installation and

other. Do not use materials that are frozen, caked, lumpy, dirty, or

applying plaster materials,

protection of other work so that neither will be damaged by installation of

contaminated by foreign materials. Do not use excessive water in mixing and

2. Tolerances: Do not deviate more than plus or minus 1/8 inch in 10 feet

accessories that act as a plaster ground, unless otherwise indicated. Where plaster is not terminated at metal frame by casing

beads, cut base coat free from metal frame before plaster sets and

Corners: Make internal corners and angles square; finish external

6. Number of Coats: Apply plaster in 2 or 3 coats as indicated below or

13, Float Finish: Apply finish coat to a minimum thickness of 1/8 inch to

Moist-cure plaster base and finish coats to comply with ASTM C 926,

J. Cutting and Patching: Repair cracks and indented surfaces, Point-up linish

K. Cleaning and Protecting: Remove plaster from other surfaces not to be

plastered. When plastering is completed, remove unused materials

as necessary to comply with required visual effects.

or deterioration until Substantial Completion.

completely cover base coat, uniformly floated to a true even plane with fine-textured finish matching Architect's sample.

14. Trowel-Textured Finish: Finish coat with hand-troweled-textured finish to

including written instructions for time between coats and curing in "Annex A2

plaster surfaces around items that are built into or penetrate plaster surfaces.

Benair or replace work to eliminate blisters, buckles, check cracking, dry outs,

efflorescence, excessive pinholes, and similar defects. Repair or replace work

containers, equipment, and plaster debris. Protect plaster work from damage

corners flush with cornerbeads on interior work, square and true with

from a true plane in finished plaster surfaces, as measured by a 10-ft.

Plaster Application Standard: Apply plaster materials, composition.

mixes, and finishes indicated to comply with ASTM C 926.

straightedge placed at any location on surface.
3. Plaster flush with metal frames and other built-in metal items or

groove finish coat at junctures with metal.

5. Thickness: As indicated or as required by ASTM C 926.

a. Three Coats: Over the following plaster base:

b. Two Coats: Over the following bases:

2) Monolithic concrete.

1) Concrete unit masonry.

plaster faces on exterior work.

1) Metal lath,

match Architect's sample.

H. Finish Coats: As follows:

Design Considerations."

END OF SECTION

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable reparding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the labrication of the work.
- Sound Transmission Characteristics: For gypsum board assemblies with STC ratings, provide materials and construction identical to those of assemblies whose STC ratings were determined according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.
- C. Fire-Test-Response Characteristics: Where fire-resistance-rated gypsum board assemblies are indicated, provide gypsum board assemblies that are identical to assemblies tested for fire resistance according to ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

1.2 PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products by following manufacturer:
 - Gypsum Board and Related Products: USGA application manual.
- B. Gypsum Board Products: Types indicated in maximum lengths available that will minimize end-to-end butt joints in each area indicated to receive gypsum heart area indicated.
- 1. Gypsum Wallboard: ASTM C 36, in thickness indicated,
- Type: Regular for vertical surfaces, unless otherwise indicated,
 Type: Type X where required for fire-resistance-rated
- c. Type: Sag-resistant type for ceiling surfaces,
- d Edges Tapered
- e. Proprietary Gypsum Board Products: Subject to compliance with requirements, provide one of the following products where proprietary gypsum wallboard is indicated: SHEETROK Brand Gypsum Panels, FIRECODE C Core; United States Gypsum Co.
- Exterior Gypsum Soffit Board: ASTM C 931, with manufacturer's standard edges, in thickness indicated.
- Type: Regular, unless otherwise indicated.
 Type: Type X where required for fire-resistance-rated assemblies and where indicated.
- and where indicated.

 3. Water-Resistant Gypsum Backing Board: ASTM C 630, in thickness
- a. Type: Regular, unless otherwise indicated.
- Type: Type X where required for fire-resistance-rated assemblies and where indicated.
- C. Cementitious Backer Units: ANSI A118,9 in maximum lengths available to minimize end-to-end butt joints,...
- D. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047, formed metal or plastic, with metal complying with the following requirement: 1, Steel sheet zinc coated by hold-dip orcess or rolled zinc.
- E_i Accessories for Exterior Installations: Cornerbead, edge trim, and control joints formed from steel sheet zinc coated by hot-dip process or rolled zinc complying with ASTM C 1047.
- F. Aluminum Accessories: Where indicated, provide manufacturer's standard extruded-aluminum accessories of profile indicated.

 1. Primed Finish: Manufacturer's standard corrosion-resislant primer
- compatible with joint compound and finish materials specified,

 G. Joint Treatment Materials: Provide joint treatment materials complying with
- ASTM C 475 and the recommendations of both the manufacturers of sheet products and of joint treatment materials for each application indicated.

 1. Joint Tape for Gypsum Board: Subject to compliance with requirements, provide joint reinforcing tape with compatible joint compound where recommended by manufacturer of gypsum board.
- and joint treatment materials for the application indicated.

 2. Joint Tape for Cemenlitious Backer Units: As recommended by cementitious backer unit manufacturer.
- Onying-Type Joint Compounds for Gypsum Board: Factory-packaged viryl-based products complying with the following requirements for formulation and intended use. a. Ready-Mixed Formulation: Factory-mixed product.
- Joint Compound for Cementitious Backer Units: Material recommended by cementitious
 backer unit manufacturer.
- Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, non staining latex sealant complying with ASTM C 834 that is effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by tesling representative assemblies according to ASTM E 90.
- Acoustical Sealant for Concealed Joints: Manufacturer's standard nondrying, non hardening, non skinning, non staining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.

FOCUS REALTY SERVICES INC.

ARCHITECTS , PLANNERS . DESIGNERS



ORANGE COUNTY - LOS ANGELES - BAY AREA



2

(A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA FOCUS REALTY SERVICES INC LAFAYETTE, CALIFORNIA

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GENERAL NOTES

PROJECT MANAGER :	
DESIGNER:	M.R.
DRAWN BY:	
REVIEWED BY :	
1ST BLDG_DEPT. SUBMITTAL	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER !	2019034
CAD FILE NAME :	A0GN1.DWG

DATE: 12-30-2019

GN4

- J. Miscellaneous Materials: Provide auxiliary materials for gypsum board construction that comply with referenced standards and reco ovosum board manufacturer
- Fastenian Adhesive for Wood: ASTM C 557.
- 2. Steel drill screws complying with ASTM C 1002 for the following
- a. Fastening gypsum board to wood members:
- b. Fastening gypsum board to gypsum board.
 Steel drill screws of size and type recommended by unit manufacturer
- or fastening cementitious backer units. 4. Gypsum Board Nails: ASTM C 514.
- K. Texture Finish: As follows:
- Walls: Light orange-peel texture
- 2. Ceilings: Light orange-peel texture.

1.3 EXECUTION

- A. Gypsum Board Application and Finishing Standards: Install and finish gypsum panels to comply with ASTM C 840 and Gypsum Association "Application, Finishing Gypsum Products," GA-216.
 - 1. Install sound-attenuation blankets, where indicated, prior to installing gypsum panels unless blankets are readily installed after panels have been installed on one side.
- Install ceiling board panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in the central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member. Application per CRC Table
- 3. Form control and expansion joints at locations indicated and as detailed, with space between edges of adjoining gypsum panels, as well as supporting framing behind gypsum panels...
- 4. Isolate perimeter of nonload-bearing gypsum board partitions at structural abutments, except floors, as detailed, Provide 1/4- to 1/2 inch wide spaces at these locations and trim edges with U-bead edge trim where edges of gypsum panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- 5. Where STC-rated gypsum board assemblies are indicated, seal construction at perimeters, behind control and expansion joints, openings, and penetrations with a continuous head of acoustical sealant including a bead at both faces of the partitions. Comply with ASTM C 919 and manufacturer's recommendations for location of edge trim and closing off sound-flanking paths around or through gypsum board assemblies.
- 6. Space fasteners in ovosum panels according to referenced gypsum board application and finishing standard and manufacturer's recommendations...
- 7. Space fasteners in panels that are tile substrates a maximum of 8 inches o.c.
- 3. Install cementitious backer units to comply with ANSI A108.11.
- 9. Do not install water-resistant ovosum backing board panels at showers, tubs, areas subject to direct water exposure to water, and at areas with continuous high humidity per CRC Section R703.2. Fiber-cement, fiber-mat reinforced cement, glass mat gypsum backers fiber-reinforced gyosum backers in compliance with ASTM C 1288, C 1325, C 1178 or C 1278, respectively, and installed in accordance with manufacturers' recommendations shall be used as backers for wall tile in tub and shower areas and wall panels in shower areas per R702.4.2. Install with 1/4-inch open space where panels abut other construction or penetrations.
- B. Exterior Soflits and Ceilings: Apply exterior gypsum soffit board panels erpendicular to supports, with end joints staggered over supports. Install with 1/4-inch open space where panels abut other construction or structural penetrations. Fasten with corrosion-resistant screws
- C. Installing Trim Accessories: For trim accessories with back flanges, fasten to framing with the same fasteners used to fasten gypsum board, Otherwise, fasten trim accessories according to accessory manufacturer's directions for type, length, and spacing of fasteners.
 - stall cornerbead at external corners.
 - 2. Install edge trim where edge of gypsum panels would otherwise be exposed. Provide edge trim type with face flange formed to receive inint commound, except where other types are indicated.
 - a. Install LC-bead where gypsum panels are lightly abutted to other construction and back flange can be attached to framing or supporting substrate.
 - b. Install L-bead where edge trim can only be installed after gypsum
 - panels are installed. c. Install aluminum trim and other accessories where indicated.
- D. Finishing Gypsum Board Assemblies: Treat gypsum board joints, interior angles, flanges of cornerbead, edge trim, control joints, penetrations, fastener heads, surface detects, and elsewhere as required to prepare gypsum board surfaces for decoration as recommended by the manufacturer's written
- E. Applying Texture Finishes: As follows:

END OF SECTION

- 1. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes according to texture finish manufacturer's instructions. Apply primer only to
- urfaces that are clean, dry, and smooth. 2. Texture Finish Application: Mix and apply finish to gypsum panels and indicated to receive texture linish according to texture finish manufacturer's directions. Using powered spray equipment, produce a uniform texture free of starved spots or other evidence of thin application or of application patterns.
- $\mathbf{3}_{\scriptscriptstyle{\pi_{\rm J}}}$ Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediatel droppings and overspray as recommended by texture finish manufacturer to prevent damage...

A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.

SECTION 09310 - CERAMIC TILE

1.2 PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products to match the selection as indicated on the interior design drawing
- B. Tile Standard: Provide tile that complies with Standard Grade requirements of TCA's Handbook for Ceramic, Glass and Stone Tile Installation for types, compositions, and other characteristics indicated.
- C. Tile Installation Malerials: Provide materials complying with referenced
- D. Colors, Textures, and Patterns: For tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, comply with the following requirements:
 - Match colors, textures, and patterns indicated by referencing manufacturer's standard designations for these characteristics 2. Provide Interior Designer's selections from manufacturer's full range of
- colors, textures, and patterns for products of type indicated Es. Factory Blending: For tile exhibiting color variations within the ranges selected during Sample submittals, blend tile in the factory and package so tile units taken from one package show the same range in colors as those

taken from other packages and match approved Sample

- F. Factory-Applied Temporary Protective Coating: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by precoating them with a continuous film of petroleum paraffin wax, applied hot. Do not coat unexposed tile surfaces...
- G. Trim Units: Provide tile trim units to match characteristics of adjoining flat tile and to comply with the following requirements: 1. Size: As indicated, coordinated with sizes and coursing of adjoining flat tile where applicable,
- opfing for Thin-Set Tile Installations: Provide products that comply with ANSI A118.10.
- L. Portland Cement Mortar Installation Materials: Provide materials complying with ANSI A108,1A

- 1. Latex-Portland Cement Grout: ANSI A118.6 for materials described in Section H-2.4. composed as follows:
 - a. Factory-Prepared, Dry-Grout Mixture; Factory-prepared mixture of portland cement; dry, redispersible, ethylene vinyl acetale additive; and other ingredients to produce the following

- Unsanded grout mixture for joints 1/8 inch and 2) Sanded grout mixture for joints 1/8 inch and wider...
- K. Elastomeric Sealants: Provide manufacturer's standard chemically curing. omeric sealants of base polymer and characteristics indicated that comply with applicable requirements of Division 7 Section "Joint Sealants."
- La Cementitious Backer Units: Provide products complying with ANSI A118.9, of thickness and width indicated, and in maximum lengths available to minimize end-to-end butt joints.

1.3 EXECUTION

- A. Provide concrete substrates for tile floors installed with dry-set or latex-portland cement mortars that comply with flatness tolerances specified in referenced ANSI A108 series of tile installation standards for installations indicated.
 - 1. Use trowelable leveling and patching compounds per tile-setting material manufacturer's written instructions to fill cracks, holes, and depressions
 - Remove protrusions, bumps, and ridges by sanding or grinding.
- B. Blending: For tile exhibiting color variations within the ranges selected during Sample submittals, verify that life has been blended in the factory and packaged so tile units taken from one package show the same range in colors as those taken from other packages and match approved Samples.
- C. Tile Installation Standards: Comply with Tile installation standards in TCA's Handbook for Ceramic, Glass and Stone Tile Installation that apply to types of setting and grouting materials and to methods indicated.
- D. Extend tile work into recesses and under or behind equipment and fixtures to form a complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments...
- E. Accurately form intersections and returns. Perform cutting and drilling of tile wilhout marring visible surfaces. Carefully grind cut edges of tile abutting trim finish or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, lixtures, and other penetrations so plates, collars, or covers overlap tile
- F. Jointing Pattern: Lay tile in grid pattern, unless otherwise indicated. Align joints where adjoining tiles on floor, base, walls, and trim are the same size Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize lile cutting. Provide uniform joint widths, unless otherwise indicated.

- G. Expansion Joints: Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles
 - 1. Locate joints in tile surfaces directly above joints in concrete substrates 2. Prepare joints and apply sealants to comply with requirements of Division 7 Sect. "Joint Sealants."
- H. Grout tile to comply with the requirements of the following tile installation
- 1. For ceramic tile grouts (sand-portland cement, dry-set, commercial portland cement, and latex-portland cement grouts), comply with ANSI A108 10
- L At showers, tubs, and where indicated, install cementitious backer units and treat joints to comply with ANSI A108.11 and manufacturer's written Instructions for type of application indicated.
- Install waterpronting to comply with waterproofing manufacturer's written instructions to produce a waterproof membrane of uniform thickness bonded securely to substrate.
- K. Do not install tile over waterproofing until waterproofing has cured and been tested to determine that it is waterlight
- Floor Tile Installation: Install tile to comply with requirements indicated. including those referencing TCA installation methods and ANSI A108 series of tile installation standards...
- M. Wall Tile Installation: Install types of tile designated for wall installations to comply with requirements indicated, including those referencing TCA installation methods and ANSI setting-bed standards.
- 1. Install metal lath and scratch coat to walls to comply with ANSI A108.1A, Section 4.1.
- 2. Back Buttering: For installations indicated, obtain 100 percent mortar coverage by complying with applicable special requirements for back buttering of tile in referenced ANSI A108 series of tile installation
- N. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Use cleaning materials and methods that comply with tile and grout manufacturer's written instructions.
- 1. Remove temporary protective coating by method recommended by coating manufacturer that is acceptable to brick and grout manufacturer Trap and remove coating to prevent it from clogging drains.

END OF SECTION

SECTION 15A - HEATING/AIR CONDITIONING

1.1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Bullder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- Supply all labor, transportation, materials, etc., for installation of complete HVAC system to operate according to the best practices of the trade, All work to comply with all requirements of all legally constituted authorities having jurisdiction including all county and state codes and ordinances.
- All HVAC equipment and lixtures shall be selected by the Builder.
- All HVAC equipment shall meet all the requirements as indicated on the Certificate of Compliance (CF1R) and California Energy Code Section
- E. The Builder shall provide the original occupant a listing of heating, cooling and water healing systems installed in the building and instructions on how to use them efficiently.
- All light, ventilation and heating per CRC Section R303.
- G. All air-distribution and ventilation system ducts, plenums and fans shall comply with California Energy Code Section 150,0(m)
- All ducts penetrating between garage and dwelling per CRC Section
- All appliance installation shall be per CMC Section 303. Water heaters installed in garages shall be per CPC Section 507,13
- J. Cloth dryer exhaust shall be per CMC Section 504.4.
- All mechanical equipment and exhaust shall be installed in accordance with, and comply with the California Green Building Standards Code
- All air distribution and ventilation system ducts, plenums, and fans shall meet the requirements of California Energy Code Section 150,0(m)-

1,2 PRODUCTS (NOT APPLICABLE)

SECTION 09680 - CARPET

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry dards have been resolved prior to the fabrication of the work,
- B. Do not install carpet over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet manufacture

Available Products: Subject to compliance with requirements, carpets that shall be incorporated into the Work will be as selected by the Interior Designer in the Interior Design drawings and specifications

1.3 EXECUTION

- A. Evamine substrates areas and conditions for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affection carpet performance. Verify that substrates and conditions are satisfactory for carpet installation and comply with requirements specified.
- 1. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and slabs are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet manufacturer and carpet cushion manufacturer.
- 2. For wood subfloors, verify underlayment surface is free of irregularities and substances that may interfere with adhesive bond or show through
- Preparation: Comply with CRI 104, Section 8.0, "Substrate Preparation," and carpet manufacturer's written installation instructions for preparing substrates indicated to receive carnet.
- C. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in
- D. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents.
- E. Stretch-in Installation: Comply with CRI 104, Section 16, "Stretch-in
- F. Stair Installation: Comply with CRI 104, Section 17, "Carpet on Stairs."
- G. Comply with carpet manufacturer's written recommendations for sean locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position. Level adjoining border edges.
- H. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and
- Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings,
- J. Install pattern parallel to walls and borders.
- K. Install carnet cushion seams at 90-degree angle with carnet seams. L. Perform the following operations immediately after installing carpet 1. Remove excess adhesive, seam sealer, and other surface blemishes
 - using cleaner recommended by carpet manufacturer, Remove yarns that protrude from carpet surface. 3. Vacuum carpet using commercial machine with face-beater element.

END OF SECTION

SECTION 09900 - PAINTING

1.1 GENERAL

A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work

- $B_{\scriptscriptstyle \rm TL}$ This Section includes surface preparation and field painting of exposed exterior and interior items and surfaces.
- 1. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other
- C. Paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural, If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether or not schedules indicate colors. If the schedules do not indicate color or finish, the Architect will select from standard colors and finishes available.
- Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
- 1. Labels: Do not paint over Underwriters Laboratories (UL), Factory Mutual (FM), or other code required labels or equipment name identification, performance rating, or nomenclature plates
- E. Source Limitations: Obtain block fillers, primers, and undercoat materials for each coating system from the same manufacturer as the finish coats,
- F. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label
- Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain containers in clean condition, free of foreign materials and residue. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.
- H. Project Conditions: Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces,

1.2 PRODUCTS

- Available Products: Subject to compliance with requirements, exterior paint colors that shall be incorporated into the Work will be as selected by the Interior Designer in the Architect.
- B. Material Compatibility: Provide block fillers, primers, undercoals, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- C. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- D. Colors: Provide exterior color selections as indicated in the Architect color schedule.

1.3 EXECUTION

- At Examine substrates, areas, and conditions under which painting will be performed for compliance with paint application requirements. Do not begin to annly paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates
- C. Preparation: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to he painted. If removal is Impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- D. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coalings. Remove oil and grease before cleaning. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wel, newly painted surfaces.
- Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition.
- 1. Cementitious Materials; Remove efflorescence, chalk, dust, dirt. grease oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation. Use abrasive blast cleaning methods if
- recommended by paint manufacturer.

 a. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the linish paint to blister and burn, correct this condition. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's written instructions.
- 2. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits. and sandpaper, as required, Sand surfaces exposed to view smooth and dust off.
- a. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- b. Prime, stain, or seal wood to be painted immediately on delivery. Prime edges, ends, faces, undersides, and backsides of wood, including cabinets, counters, cases, and paneling.
- c. Back prime all exposed wood trim as indicated on drawings prior d. Seal lops, boltoms, and cutouts of unprimed wood doors with a
- heavy coat of varnish or sealer immediately on delivery. 3. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with the Steel Structures Painting Council's (SSPC)

FOCUS REALTY SERVICES INC.

ARCHITECTS , PLANNERS . DESIGNERS



OBANGE COUNTY LOS ANGELES BAY AREA



FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA ADALWOOD. BENETT PLACE) ROSA, CALIFORNIA (A.K.A. E SANTA F

Q 2019 WILLIAM HEZIANLHALCH ARCHITECTS, INC. 850 WILL SCALE

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DESCRIPTION
5255/10/1/10

GENERAL NOTES

PROJECT MANAGER:	
DESIGNER:	M.R.
DRAWN BY:	
REVIEWED BY :	
1ST BLOG_DEPT_SUBMITTAL:	
ISSUED FOR CONSTRUCTION:	
JOB NUMBER :	2019034
CAD FILE NAME :	A0GN1_DWG

DATE 12-30-2019

GN5

- Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by paint manufacturer, and touch up with the same primer as the shop coat.
- 4. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants, Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- F. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
 - Stir material before application to produce a mixture of uniform density.
 Stir as required during application, Do not stir surface film into material. If necessary, remove surface film and strain material before
- 2. Use only thinners approved by paint manufacturer and only within recommended limits.
- G. Application: Apply paint according to manufacturer's written instructions, Use applicators and techniques best suited for substrate and type of material being applied,
- Exterior paint colors, surface treatments, and finishes as indicated in the Architects color schedule.
- 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
- conditions detrimental to formation of a durable paint film.

 3. Provide finish coats that are compatible with primers used.
- The term "exposed surfaces" includes areas visible when permanent or built-in items are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.
- 5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces, Before the final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coal only.
- Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
- 7. Finish exterior doors on tops, bottoms, and side edges the same as
- Sand lightly between each succeeding enamel or varnish coat.
- H. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practical after preparation and before subsequent surface deterioration.
- The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer if sanding is required to produce a smooth, even surface according to manufacturers written instructions, sand between applications.
- If undercoals, stains, or other conditions show through final coat of paint, apply additional coals until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- Allow sufficient time between successive coals to permit proper drying.
 Do not recoal surfaces until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and where application of another coal of paint does not cause the undercoal to lift or lose adhesion.
- Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
- J., Minimum Coaling Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate, Provide the total dry film thickness of the entire system as recommended by the manufacturer.
- K. Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.
- L. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoal primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.
- M. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.
- N. Field Quality Control: The Client reserves the right to engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the Project will be taken, identified, sealed, and certified in the presence of the Sub-Contractor.
- The testing agency will perform appropriate tests as required by the Client.
- If tests show material being used does not comply with specified requirements, the Sub-Contractor shall remove noncomplying paint from the site, pay for festing, and repaint surfaces previously coated with the rejected paint. If necessary, the Sub-Contractor may be required to remove rejected paint from previously painted surfaces if, on repainting with specified paint, the two coalings are incompatible.
- O. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site.
 - After completing painting, clean glass and paint-spattered surfaces.
 Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.
- P. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting.
- Q. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
 - Al completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

.3 EXECUTION

A, All equipment shall be installed per manufacturers written instruction and

END OF SECTION

SECTION 15B - MECHANICAL/PLUMBING

1.1 GENERA

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable reparding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards. Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Supply all labor transportation and materials for the installation of a complete plumbing system to operate according to the best practices of the trade, All work and materials to comply with all requirements of all legally constituted authorities having jurisdiction including all county and state codes and ordinances.
- C_s. All plumbing fixtures and equipment shall be those indicated in the fixture schedules as issued by the Builder.
- D. Anchorage of water heater shall be per CPC Section 507.2.
- E. Water heating systems installed per California Energy Code Section 150.0(n).
- F. Integral backflow preventer per CPC Section 603.
- Drainage fitting shall be designed to maintain one-fourth unit vertical in 12 units horizontal (2% slope) grade.
- H. No vent from indirect waste piping shall combine with any sewer connected vent, but shall extend separately to outside air per CPC Section 803.3.
- Clothes washer standpipe receptor shall extend between 18 and 30 inches above its trap. The trap shall be between 6 and 18 inches above the floor per CPC Section 804.1.
- J. Pressure relief valves shall terminate outside the building within 6 to 24 inches of ground and and pointing down. Such drain may terminate at other approved locations per CPC Section 608.5.
- K. Cleanouts shall be placed inside the building near the connections between the building drain and the building sewer or installed outside the building at the lower end of the building drain and extended to grade per CPC Section 719.1.
- L. Gas piping shall be installed in accordance with CPC Section 1210.
- M. Provide bonding from cold to hot water piping to comply with CEC Article 250,104.
- N. No domestic dishwasher shall be connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting per CPC Section 807.3.
- In showers and tub-shower combinations, control valves must be pressure balanced or thermostatic mixing valves per CPC Section 408.3.
- P. All water closets (toilets) shall use a flush volume per CPC Section 403.2 and California Green Building Standards Code Sections 4.303.1.1.
- Q. All plumbing fixtures and fixture fittings shall meet the requirements of the California Green Building Standards Code Sections 4.301.1, & 4.303.2.
- R. Water system piping and insulation for piping tanks and cooling lines shall meet the requirements of the California Energy Code Section 150.0(j).
- 1.2 PRODUCTS (NOT APPLICABLE)

1.3 EXECUTION

- $\mbox{\bf A}_{\rm a}$ $\,$ All equipment shall be installed per manufacturer written instruction and specifications,
- B. Sleeves shall be provided to protect all piping through concrete and masonry walls and concrete floors per CPC 312,10, $\,$
- C. Provide intumescent sealant at all plumbing and mechanical penetrations from the garage ceiling to the living space above, and at attic ceiling penetrations.

END OF SECTION

SECTION 16 - ELECTRICAL

1.1 GENERAL

- A. Builder, Contractor and Subcontractor warrant that they are personally knowledgeable regarding the plans and specifications, California Residential Code requirements, manufacturer recommendations and industry standards applicable to their work and that their work will be performed to the highest applicable standards, Builder, Contractor and Subcontractor's further warrant that any concerns regarding the requirement of the plans and specifications, and any inconsistency of conflicts with Code, manufacturer or industry standards have been resolved prior to the fabrication of the work.
- B. Supply all labor, transportation and materials for the installations of a complete electrical system to operate according to the best practices of the trade. All work and materials to comply with all requirements of all legally constituted authorities having jurisdiction including all county and state codes and ordinances.
- C. All electrical equipment and appliances shall be those indicated in the fixture schedule as issued by the Builder.
- D. All 125 volt, single-phase, 15 and 20 amperes receptacles installed outdoors where there is direct grade level access, shall have ground-fault circuit interrupter protection for personnel per CEC Article 210.8.
- E. Outlet boxes on opposite sides of fire resistive walls shall be separated per CRC Section 302.4.2.
- F. Electrical branch-circuit, feeder and service calculations shall conform to CEC Article 220.
- G. Grounding and bonding shall conform to CEC Article 250.
- H, Fixtures in closet shall maintain clearances from combustibles per CEC Articles 410.2 & 410.16.
- I. Provide GFCI protection per CEC Article 210,8(A).
- J. Placement/spacing of electrical outlets:
 - General provision: In every kitchen family room, dining room, living room, parlor, library, den, sun room, bedroom, recreation room or similar room or area of dwelling units, receptacle outlets shall be installed so that no point along the floor line in any wall space is more than 6 feet from an outlet in that space, including any wall space 2 feet or more in width and the wall space occupied by fixed panels in exterior walls, but excluding sliding panels in exterior walls per CEC Article 210.52(A).
- Kitchen counter tops: receptacle outlets shall be installed at each
 counter space 12 Inches or wider. Receptacle shall be installed so that
 no points along the wall line is more than 24 inches from a receptacle
 outlet in that space. Island and perinsula counter tops 12 inches or
 wider shall have at least one receptacle. Counter top spaces separated
 by range tops, refrigerators, or sinks shall be considered as separated
 counter top spaces per CEC Article 210.52 (C).
- Bathrooms: At least one wall receptacle outlets shall be installed in the bathroom within 3 feet of each basin or on the side or face of base cabinet within 12" below counter top per CEC Article 210.52(D).
- Hallways: 10 feet or more in length shall have at least one receptacle outlet per CEC Article 210,52(H).
- Outdoors: At least one receptacle outlet accessible at grade level, and no more than 6-6" above grade shall be installed at the front and rear of the dwelling per CEC Article 210.52(E),
 Balconies, Decks, and Porches: When accessible from inside the
- dwelling unit, shall have at least one receptacle outlet no more than 6'-6" above the surface per CEC Article 210,52(E)(3).
- K. Smoke alarms shall be interconnected to sound an alarm in all sleeping areas of the dwelling; be installed in each sleeping room and in the corridor or area giving access to each separate sleeping area and be equipped with a battery backup per CRC Section R314.
- L. Carbon Monoxide Alarms shall be installed per CRC Section R315.
- M. Receptacles in kitchen and bathrooms shall be installed above the splash unless otherwise noted on plans.
- N. Receptacles shall be installed vertically at +/-12" above finish floor.
- ICT fixtures: all recessed light at insulated ceilings shall be UL approved for direct contact with insulation.
- P. Provide permanent light fixture and electrical outlet at all attic installed forced air units.
- Residential lighting shall meet the requirements of California Energy Code Section 150.0(k).
- 1.2 PRODUCTS (NOT APPLICABLE)

1,3 EXECUTION

- A_s. All equipment shall be installed per manufacturers written instructions and specifications.
- $B_{\ast \parallel}$ A qualified inspector shall review the assembly for compliance with Title 7 of the California Civil Code.
- C. All outlets in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closels hallways, laundry areas, or similar rooms or areas, are to be arc-lault circuit-interrupter oratected with combination type breaker per CEC Article 210.12.
- D. Provide intumescent sealant at all electrical/wiring penetrations from the garage ceiling to the living space above, and at attic ceiling penetrations.

END OF SECTION

FOCUS REALTY SERVICES INC.

ARCHITECTS . PLANNERS . DESIGNERS

ORANGE COUNTY LOS ANGELES , BAY AREA



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SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA FOCUS REALTY SERVICES INC, LAFAYETTE, CALIFORNIA

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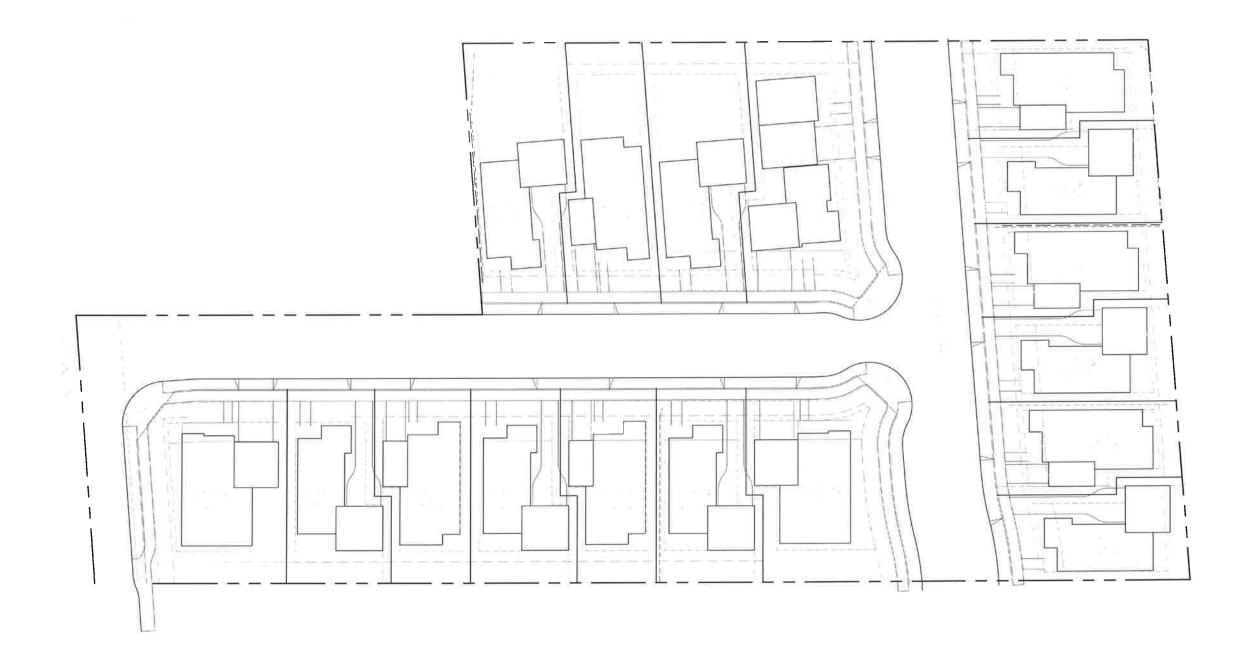
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NO.	DATE	DESCRIPTION
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GENERAL NOTES

PROJECT MANAGER	
DESIGNER :	M.R.
DRAWN BY :	
REVIEWED BY:	
1ST BLOG DEPT, SUBMITTAL :	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER :	2019034
CAD FILE NAME:	AOGN1,DWG

DATE: 12-30-2019

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SITE PLAN

PLAN FOR REFERENCE ONLY

REFER TO CIVIL PLOT PLANS, SITE PLAN AND/OR IMPROVEMENT PLANS (BY OTHERS) FOR ADDITIONAL INFORMATION NOT SHOWN HERE

SCALE: 1" = 20'-0"

FOCUS REALTY SERVICES INC.

ARCHITECTS , PLANNERS . DESIGNERS



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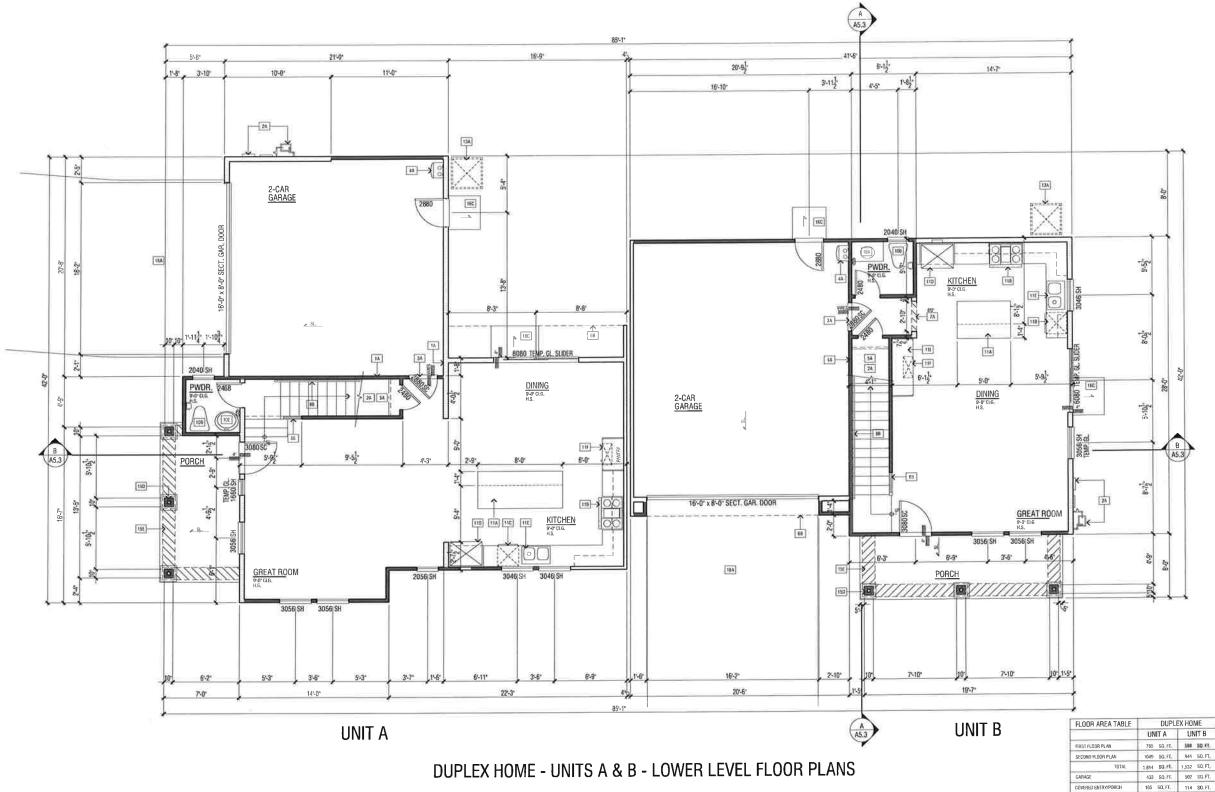
SANDALWOOD
(A.K.A. BENETT PLACE)
SANTA ROSA, CALIFORNIA
FOCUS REALTY SERVICES INC.
LAFAYETTE, CALIFORNIA

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SITE PLAN

GRUTTLE HAIRE.	SHEET:
CAD FILE NAME :	
JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION :	
1ST BLDG. DEPT. SUBMITTAL :	
REVIEWED BY:	
DRAWN BY:	
DESIGNER	M.R.



NOTE SQUARE FOOTAGE MAY VARY DUE TO METHOD OF CALCULATION WALL LEGEND FLOOR PLAN KEY NOTES INTERIOR SCHTTIS/DROPPED CELING(S) HEIGHT PER PLAN +42 MIN, GUARD PER CRS SECTION R312, IS TABLE R301.5 - LOW WALL WITH WOOD CAPPOR OPEN RIJE. SEC EPICEL HEIGHT AS TABLE R301.5 - LOW WALL WITH WOOD CAPPOR OPEN RIJE. SEC EPICEL HEIGHT AS TABLE R301.5 - LOW WALL HAVEN AS TABLE R301.5 SEC EPICEL HEADARD AS TABLE R301.5 SEC EPICH HEADARD AS TABLE R301.5 SPACE OF 12 FROM BUILDING, FIELD VERIFY. 35" SLIDE-IN PANGEOVEN WY DOWNEST HOOD Y AWARDENT ASSOCIATED BY BURDEN WAT TO OUTSIDE ARE EDUP WE BACKGRAFT DAMPER- TYP. LOW WALL 2x4 STUD WALL 2x41-HR WALL 2x61-HR WALL 2x61-HR WALL 2x61-HR WALL 2x61-HR WALL GARACE AND ON CAPPORT SHALL BE SEPANATED FROM THE RESIDENCE AND ITS ATTIC BY MEANS OF A MIN, X* GPY, EQ. OF COUNTY IN 1, AFF-JID TO THE GARACE SIDE, AND THYPE Y GPY, BU, WHICH MARKERS PROMS DECLAR ON THE GARACE FOR GREAT FROM SEPECTAL STATE OF THE STAT FAU (FORCED AIR UNIT), SEE DETAIL 19/AD4.2 *FNERGY STAR DISHWASHER REFRIGERATOR SPACE WITH RECESSED COLD WATER BOX 48] ATTIC ACCESS - 30°X30" U.N.O. SEE DETAIL 11/AD4.2 DOUBLE SINK WITH GARBAGE DISPOSAL - MAXIMUM FLOW RATE OF 1,8 GPM AT 60 PSI, SEE ISLAND VENT DE TAIL 12/A05.2 WHEN SINK IS LIGATED IN SILAND. 30 MICROWAYE IN CABINET, AS SELECTED BY BUILDER DUCT CHASE SIZE PER PLAN **FLOOR PLAN NOTES** WOOD POST, REFER TO STRUCT, DWGS BY OTHERS FOR CONNECTIONS, SEE DETAIL 14/ADZ 1 1-HR RATED FLOOR & CLG. ASSEMBLY BETWEEN ADJOINING DWELLING UNITS W/ A MIN. STC OF 50 SEE DETAIL 16/404.2 WOOD POST, REFER TO STRUCT, DWGS BY OTHERS FOR CONNECTIONS. SEE DETAIL 10/ADZ.1 CAVATORY - MAX. FLOW HATE OF 1.5 GPM AT 60 FG. FRAMED COLUMN, REFER TO STRUCT, DWGS BY OTHERS FOR CONNECTIONS, SEE DETAIL 2/AD2 UPPER CABINETS COM INCHINATE CLOSE TALB OFF MAKALIDATE WATER CLOSE TABLE TO MORE CENTRALING. TO MAY RESEMBLED, WASTER CORST SCALE, ETA, MAY, OFF D. C. IT DAY RESEMBLED THE CORST. OFF D. C. IT DAY RESEMBLED AS SELECTED BY BUILDED AS MATTERPROOF SHOWER FEAT DO SERVED THE CORST. OFF D. C. IT DAY RESEMBLED AS DESCRIBED AS DES PROVIDE BOLD WOOD ON SOLID ON HONEYCOME STEEL DOOR, NOT LESS THAN 1-28! THICK, OR 20 MIN. RATED HIRE DOOR, DOORS SHALL BE SELF-CLOSING ACCINING FER CRC SECTION RODS 5.1. LOWER CABINETS SD COLUMN SEE DETAIL 6/AD2.1 EXTERIOR SOFFIT, SEE EXTERIOR COAT CLOSET; SIZE PER PLAN

STORAGE CLOSET- PROVIDE (5) EQUAL SPACED SHELVES; SIZE PER PLAN

C LINEN CARNET; SOTE FER PLAN 33 SHELF AND POLE

5A LINE OF FLOOR BELOW

a LINE OF FLOOR ABOVE

19F HULL-MONTR,E SHOWER WITH SHATTERPROOF GLASS ENCLOSURE (SIZE PER PLAN), SEE

SINGLE BASIN HOTCHEN SINK, MAXIMUM FLOW RATE OF 1.8 GPM AT 60 PSI

TWO BURNER ELECTRIC CODKTOP WITH EXHAUST HOOD VENT ABOVE- AS SELECTED BY BUILDER TWO BOWER ELECTRIC DOUGH OF THIS REMONDS THOSE WAS A 2001-F-20 SECTION OF GOOD TO THE WASHER A PAGE WITH FECESSED WATER BOX (PROVIDE SMITTY PAR AT SECOND FLOOR FLOOR LOCATION WITH RELIEF DRAIN TO AN APPROVED LOCATION) WASHER ALWAYS ON LEFT OHYER SPACE - DRYFER ALWAYS ON RIGHT. 4° DIA. 0.1 DRYFER VENT WORKYER BOX VENT TO OUTSID ARF FOR RINS LONGER THAN 14°C., SEE DETAIL 17/JU4.2 CONCRETE DRIVEWAY COMMERCE WALKWAY
 COMM

NOTE: NOT ALL KEYNOTES APPLY TO THIS PLAN SHEET.

ATTICS: ACCESS PER CIRC F800, DAM'STROPS PER CIRC R302, 12 A R302.12 AND VINTE ATION PER R800 & R1008.1,
EMPRISON Y SCAPE AND RESCUE OPERINGS PER CIRC R302 A R310. MEANS OF BERESS PER CIRC R301.1,
CAZNO, PER CIRC BORS, R303.1 & R301.2.1.2
COMBUSTION ARE TO FORCED ARE UNIT PER CIRC CHAPTER 7,
COMBUSTION ARE TO VARIEN REALER PER CIPC SECTION 5970.
ENVIRONMENTAL ARE DUCTS PER CIRC SECTION 5970.
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INTERIOR ELEVATION KEY

SCALE: 1/4" = 1'-0"

FOCUS REALTY SERVICES INC.





FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA

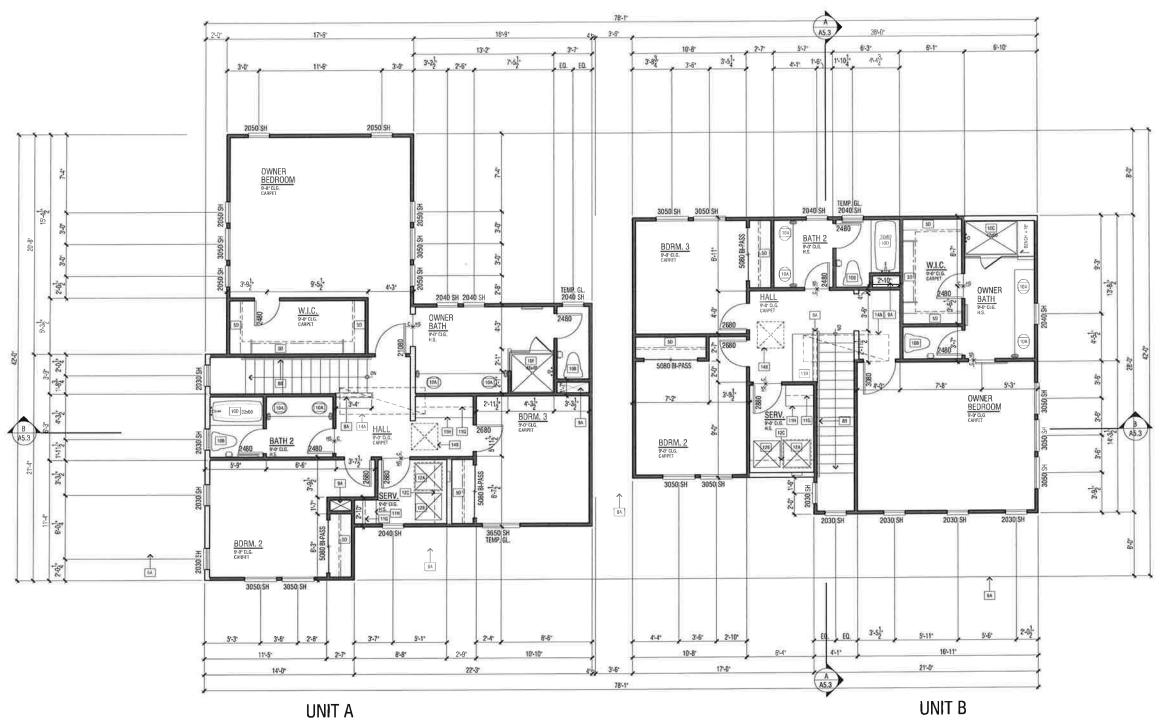
SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

O 2019 WILLIAM HEZMALHALCH ARCHITECTS, INC. 60x WHA

REVISIONS		
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DUPLEX - UNITS A & B LOWER LEVEL FLOOR PLANS

12-30-2019	A100.1.0
DATÉ:	SHEET:
CAD FILE NAME :	
JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION :	
1ST BLDG, DEPT, SUBMITTAL :	
REVIEWED BY:	
DRAWN BY	
DESIGNER	M.R.
PROJECT MANAGER:	



DUPLEX HOME - UNITS A & B - UPPER LEVEL FLOOR PLANS

FLOOR AREA TABLE	DUPL	EX HOME
	UNIT A	UNIT B
FIRST FLOOR PLAN	765 SQ FT.	588 SC FT
SECOND FLOOR PLAN	1049 SQ FT.	944 SQ. FT.
TOTAL	1,814 SQ.FT.	1,532 SQ FT
GARAGE	433 SQ. FT.	502 EQ. FT.
COVERED ENTRY/PORCH	105 SQ. FT.	114 SQ FT.

IE FOOTAGE MAY VARY DUE TO METHOD OF CALCULATION

				NOTE SOL
FLOOR PLAN KEY NOTES	EE: LINE OF SLOPID CERRG ADD-E. 7x. INTERIOR SOFFTI(s) DROPPED CELLING(S) HEIGHT PER PLAN 4-42" JMM, GUARD PER CRC SECTION R312.1 & TABLE R301.5 - LOW WALL WITH WOOD	SESSION RANGEONE APPROVED CONDUIT FOR ELECTRIC SERVICE ROUTING. SESSION RANGEONEN WE ENABLED HOW USET ABOVE AS SELECTED BY BUILDER. SESSION TO DUISSE AND COUP WE MACKET AND DAMPER TYP.	[33] ARI COMMITMENUS CONCENSER: PROVIDE 36" SD. 3" THE CONCRETE A C PAG. INSTALL ARI-CONCRETENCE COUPMENT FOR MANAFACTURER'S INSTRUCTIONS. PROVIDE A MINIMUM SPACE OF 12" FROM AN EXOLOR, FRED ATTOM.	WALL LEGEND
WHEN HABITABLE REDMG CICCHE DVEH GAHAGE PER CRC TABLE REGIZES, SEZ DETAILS 5-7: AD4.2.		ENERGY STAP: DISHWASHER TID REFRIGERATOR SPACE WITH RECESSED COLD WATER BOX	TAS FAU (FORCED AIR UNIT), SEE DETAIL 19/AD4, 2 THE ATTIC ACCESS - 30°/20° U.N. Q., SEE DETAIL 11/AD4, 2	LOW WALL 2 x 4 STUD WALL 2 x 6 STUD WALL
PROVIDE NO GYPSIAN BOAND THROUGHOUT SPACES UNDER STARWAY PER CRESTCION ONE). 14 HAR RATEO IS COR & CICQ. ASSEMBLY BETWEEN ADJOINING OWELLING UNITS W/ A MIN. STC OF 50-SEE DETAIL STANDAY.	8C CRIPPLE WALL BELOW STAIRS 9A DUCT CHASE, SIZE PER PLAN	DOUBLE TINK WITH GAHOME DISPOSAL - MAXAMUM FLOW RATE OF 1,8 GPM AT 60 PSL SEE ISLAND VENT DETAL, 12/ADS. 7 WHEN SINK IS LOCATED IN ISLAND.		FLOOR PLAN NOTES
THE UTILITY AND SERVICE PAYLES W. 2HE STUD WILL TO CHELING - VEHIFY LOCATION. SEE DETAY, 240042 [34] PROVIDE SOLID WOOD O'R SCHID ON HONEYCOMB STEEL DOOR, NOT LESS THAN 1-3HE TRICK, OR 20.	LAVATORY - MAX. FLOW RATE OF 1.5 GPM AT 60 PSI. LOW FLOW WATER CLOSET (1.28 GPF MAX.) LOCATE WATER CLOSET MIN. 15 FROM CENTIFICIAL	117 30" MICROWAVE IN CABINET, AS SELECTED BY BUILDER 11G UPPER CABINETS	FRAMED COLUMN, REFER TO STRUCT, DWGS BY OTHERS FOR CONNECTIONS. SEE DETAIL 2/AD2.1	ATTICS ACCESS PER CRIC RBOY, DRAFFE (DRS PER CRIC RBOX, 12 8 RBOX, 11 AND WATER ATTICK PER RBOX & R- EMERGENCY ESCAPE AND RESCUE DI LINGS PER CRIC R202 8 RB10. WAS DI CORESS PER CRIC RB11. GLAZIMO PER CRIC RB06, R303 1 & R301.2.1.2
MM: ANATO INE DOOR DOORS SHAL BE SELF-CLOSINGLATCHING FER CAC SECTION RUDGES.1. AL TANGLESS WATER-HEATER, SEED ELIABLY 34 COAST CLOSET: SEE PER PLAN.	TO ANY OSCINICATION. WAIER CLOSET SHALL SE A MIN. OF SOF D.C. TO ANY SMALL AN INCLUDE 2* MIN CLEARANCE SHALL SE MAINTAINED IN FRONT OF WAIER CLOSET. SHOWER MAN WY SUMPLUM: AS SELECTED BY BUILDIN A SHATTERPRIOR SHOWER SHALL SHALL SHOW AS SELECTED BY BUILDIN A SHATTERPRIOR SHOWER SHALL SHALL SHOW AS SELECTED BY BUILDIN A SHATTERPRIOR SHOWER SHALL SHALL SHOW AS SELECTED BY BUILDIN A SHATTERPRIOR SHOWER SHALL SHAL	Title LOWER CABINITES	150 COLUMN, SEE DETAIL G/AD2.1 132 EXTERIOR SOFFIT, SEE EXTERIOR ELEVATIONS	COMMUSTION AIR TO FORGED ARI UNIT PER CAN CHAPTER 7. COMMUSTION AIR TO WAITER HEATER HIS CAN SECTION 50.4 ENVIRONMENTAL AIR DUCTS PER CAN SECTION 50.4
STORAGE CLOSET-PROVIDE IS EQUAL SPACED SHELVES: SHE PER PLAN	SIZE PER PLANE SE-ROUND SHALL BE HINSHED TO A HELDET OF +78" A.F.F. SHOWLER HEAD TO BE SET AT +82" A.F.F. (MAXIMUM SHOWER HEAD FLOW RATE: 1.8 GPM AT 80 PSI.) (SIZE PER PLAN)	TIX TWO BURNER ELECTRIC COOKTOP WITH EXHAUST HOOD VENT ABOVE- AS SELECTED BY BUILDER	16h CONCRETE DRIVEWAY	7. MECHANICAL EQUIPMENT LOCATION AND PROTECTION AGAINST DAMAGE PER CMC 307.

INTERIOR ELEVATION KEY

FOCUS REALTY SERVICES INC.



FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

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NO.	DATE	DESCI	RIPTION
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DUPLEX - UNITS A & B UPPER LEVEL FLOOR PLANS

12-30-2019	A100 1 1
DATE:	SHEET:
CAD FILE NAME:	
JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION :	
1ST BLDG. DEPT, SUBMITTAL :	
REVIEWED BY :	
DRAWN BY:	
DESIGNER :	M.R.
PROJECT MANAGER :	

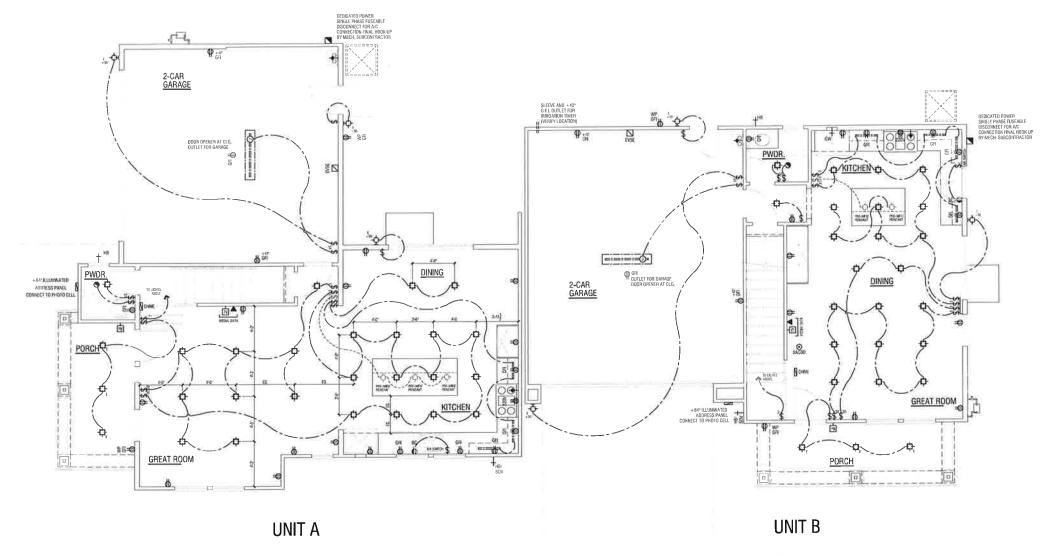
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ORE PIECE TURNINAIR AS ELLECTED BY MANDAI (SIZE PER PLAM). SHOWER NEAD TO BE SET AT +82" A.F.F. WARRAND SHOWER HEAD FLOW HATE 1,0 GPM AT 80 PSL). SEE OF TALLS TO 8.11/AD4,1

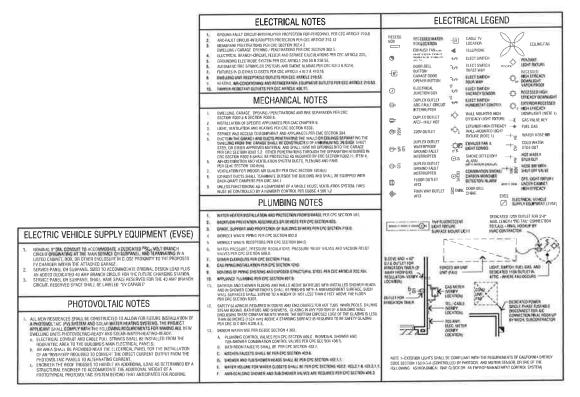
102: PEDESTAL SINK, SEE INTERIOR ELEVATIONS

 COMMERTE WALKWAY
 COMMERTE WALKWAY
 COMMERTE STOD - 38 * (AMN.) DEEP AND 2 WIDER THAN DOOR OPENING, STODP SHALL BE MAX.
7-34 * DELOW DOOR THRESHOLD, DEEP 2916 CRC R31 L7.5.1; SLOPE TO DRAIN 14* PER FT, (MIN.).
REPER TO STRUCTURAL AND/OR COVIL DIVERS TORS STODP CONSTRUCTION DETAILS. NOTE: NOT ALL KEYNOTES APPLY TO THIS PLAN SHEET.

SCALE: 1/4" = 1'-0"



DUPLEX - UNITS A & B - UPPER LEVEL ELECTRICAL/ UTILITY PLANS



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ORANGE COUNTY LOS ANGELES . BAY AREA

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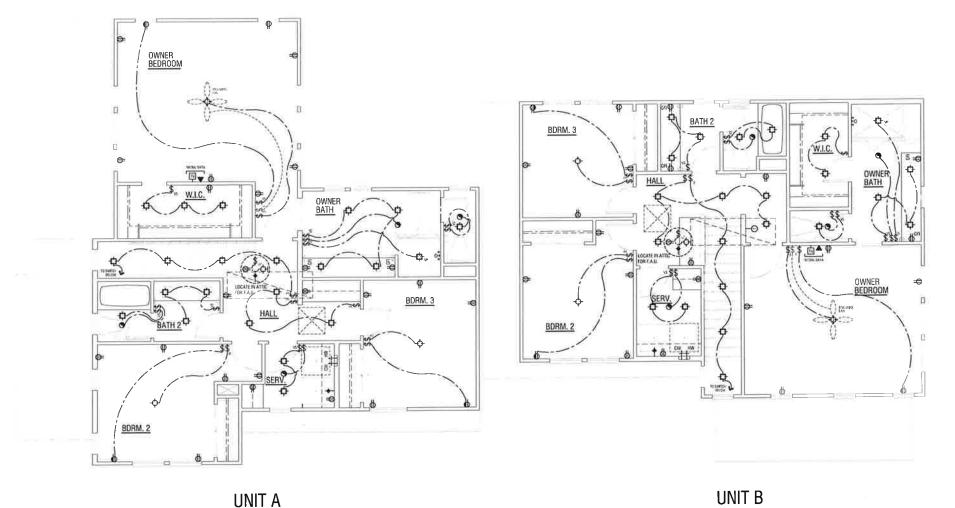
SANDALWOOD
(A.K.A. BENETT PLACE)
SANTA ROSA, CALIFORNIA
FOCUS REALTY SERVICES INC.
LAFAYETTE, CALIFORNIA

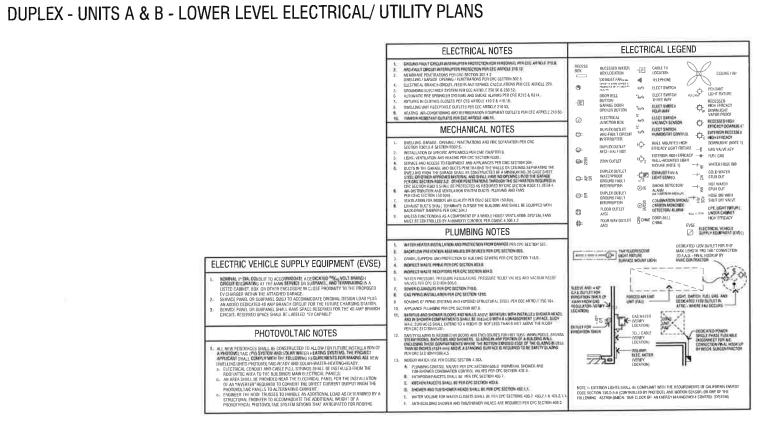
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DUPLEX - UNITS A & B LOWER LEVEL ELECTRICAL/UTILITY PLANS

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CAD FILE NAME:	
JOB NUMBER :	2019034
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1ST BLDG. DEPT. SUBMITTAL :	
REVIEWED BY :	
DRAWN BY	
DESIGNER :	M.R.
PROJECT MANAGER :	









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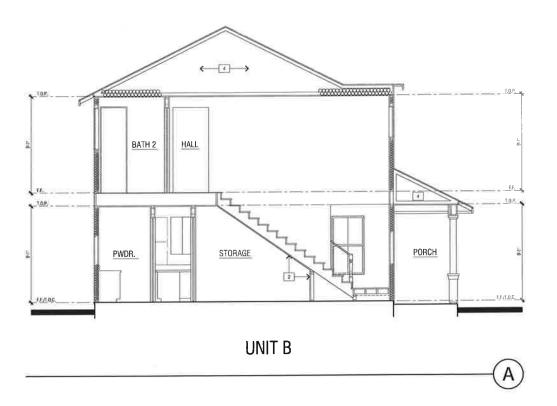
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(A.K.A. BENETT PLACE)
SANTA ROSA, CALIFORNIA
FOCUS REALTY SERVICES INC.
LAFAYETTE, CALIFORNIA

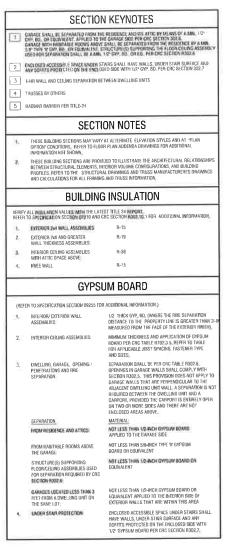
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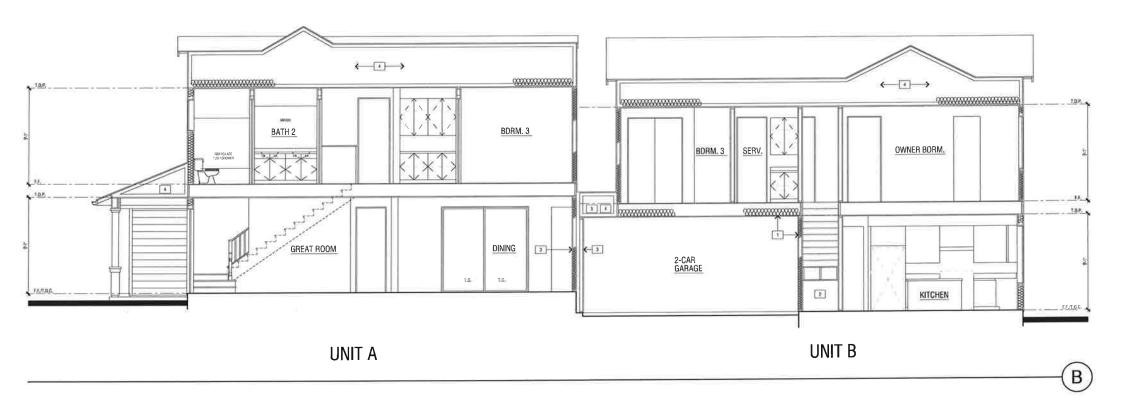
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1ST BLDG. DEPT. SUBMITTAL :	
REVIEWEO BY:	
DRAWN BY	
DESIGNER	M.R.
PROJECT MANAGER:	







SCALE: 1/4" = 1'-0"

FOCUS REALTY SERVICES INC.

ARCHITECTS . PLANNERS . DESIGNER



ORANGE COUNTY . LOS ANGELES , BAY ARE



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SANDALWOOD
(A.K.A. BENETT PLACE)
SANTA ROSA, CALIFORNIA
FOCUS REALTY SERVICES INC.
LAFAYETTE, CALIFORNIA

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DUPLEX - UNITS A & B BUILDING SECTIONS

12-30-2019	Δ100 3
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JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION:	
1ST BLDG, DEPT, SUBMITTAL:	
REVIEWED BY :	
DRAWN BY:	LP
DESIGNER :	M.R.
PROJECT MANAGER	

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ROOF PLAN

SCALE: 1/8" = 1'-0"

ELEVATION REFERENCE	ELEVATION STY	TE "A"		
	FASCIA -	FASCIA - BARGE - CWOHANG OW U.N.O.		UNO.
ROOF MATERIAL	U.N.O.,	U.N.D.	EAVE	RAKE
COMPOSITION SHINGLE OWENS CORNING DURATION PREMIUM* ICC# ESR-1372 OR BUILDER-APPROVED EQUAL	2x6	2x8	18"	12"

SEE SHEET AVC.100 FOR ATTIC VENTILATION CALCULATIONS & SPECIFICATIONS.

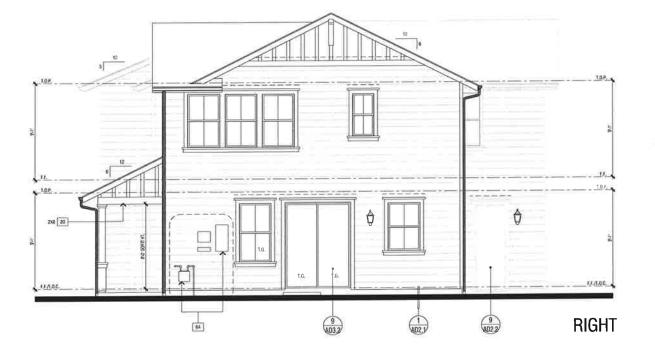
- NOTE: MANDATORY REQUIREMENTS FOR SOLAR READY BUILDINGS PER CENC SECTION 110.10.
- I. SEE GENERAL NOTES FOR ROOF NOTES.
 2. ATTIC ACCESS PER CRC SECTION R807.
- PROVIDE ATTIC & SOFFIT VENTILATION PER CRC SECTION RB06, PER CRC SECTION RB06.2, THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE.
- 4 SPARK ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ROOF PLAN LEGEND



SOLAR ZONE: CENC 110.10

1, MIN, AREA (CENC 110.10 b.1A) – 250 S.F.
2, SHADING (CENC 110.10 b.3A) – SHALL DE
FREEF FROM ARD PERCENTATIONS A
DISSIANCE FROM DISTRUCTION —
HORIZONTAL DISTRICE SHALL BE
MEASURED HORIZON TO THE ARREST FORT
OF THE SOLAR ZONE MIN, TIPLED BY TWO
(CENC 110.100 38)



ELEVATION KEY NOTES 9A METAL SECTIONAL GARAGE DOOR 1A 3-COAT STUCCO WOOD COLUMN - SEE DETAIL 6/AD2,1 10A EXTERIOR WALL MOUNTED LIGHT FIXTURE LOCATION 3B WOOD SHELF, SEE DETAIL 14/AD2 2 1B 5/16" FIBER CEMENT LAP SIDING CEDAR MILL FINISH, 8" EXPOSURE, FRAMED WOOD COLUMN- SIZE PER PLAN (TYP.)-SEE DET#L 2 #377,1 2A HBER CEMENT TRIM- HARDIE TRIM OR APPROVED EQUAL- SIDE PER ELEVATION OR DETAIL UTALITY SERVICE PANELS / METERS - VEREY LOCATION (S WITH UTLIFY COMPANIES, SEE DETAIL 2/4/34.2 - FOR OUTSIDE CORNER TRIM - SEE DETAIL 17/AD2.1 - FOR INSIDE CORNER TRIM - SEE DETAIL 13/AD2.1 - FOR MATERIAL TRANSITION - SEE DETAILS 9/AD2.1 3D 2X8 SHAPED BARGE BUARD, SEE DETAIL 9/AD L1 NOTE ALL KNYNGTEE MAY NOT BE APPLICABLE TO THIS PLAN SHEET. 4A GSM WALL FLASHING - TYP 68 AIR CONDITIONER CONDENSER- VERIFY LOCATION 48 GSM DOWNSPOUT - PAINT TO MATCH ADJACENT COLOR-TO BE VERIFIED BY BUILDER 4C TO BE VERIFIED BY BUILDER 4D NON-OPERABLE BLACKOUT WINDOW FINISHED GRADE VARIES. SEE CIVIL ENGINEER'S CONCRETE STOOP- SHALL EXTENDED THE STOOD DOOR EACH WAY (MIN, 36" NO EXPECTION OF 2B STUCGO OVER FOAM TRIM, SIZE AS NOTED, SEE DETAIL 14/AD3.1 PLOT PLANS FOR FINAL GRADE AND SITE 2C 1X2 FIBER CEMENT BATTS AT 18" O.C. TYP.- SEE DETAIL 20/AD2.1 DRAINAGE. OPTIONAL SLIDING GLASS DOOR- TRIM STYLE PER ELEVATION- SEE DETAIL 9/AD3.2 2D WOOD TRIM- PER DETAILS

SCALE: 1/4" = 1'-0"

FOCUS REALTY SERVICES INC.

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FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA SANDALWOOD
(A.K.A. BENETT PLACE)
SANTA ROSA, CALIFORNIA

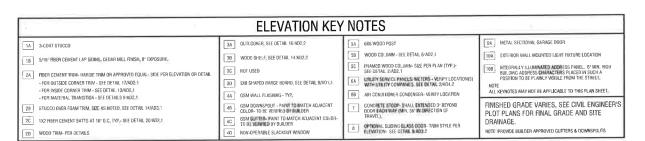
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DUPLEX - UNITS A & B ROOF PLAN & **EXTERIOR ELEVATIONS**

12-30-2019	A100.4.0
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CAD FILE NAME :	
JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION:	
1ST BLDG_DEPT_SUBMITTAL :	
REVIEWEO BY:	
DRAWN BY:	
DESIGNER :	M,R
PROJECT MANAGER:	







SCALE: 1/4" = 1'-0"

FOCUS REALTY SERVICES INC.





ORANGE COUNTY LOS ANGELES BAY AREA

DUPLEX

SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA NOT SCALE PLANS

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DUPLEX - UNITS A & B **EXTERIOR ELEVATIONS**

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ISSUED FOR CONSTRUCTION:	
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REVIEWED BY :	
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DESIGNER	以見
PROJECT MANAGER:	



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-04 00 105	KITCHEI	4*
TOE SPACE	HEIGHT	
BASE CABINET	HEIGHT	36"
	DEPTH	24"
UPPER CABINET	HEIGHT	42"
	DEPTH	12"
COUNTER TOP	MATERIAL	BUILDER TO SELECT
CABINET	FINISH	STAIN GRADE
BACKSPLASH	HEIGHT	6*
	ISLAND (WHERE (OCCURS)
DAGE GADINET	HEIGHT	36"
BASE CABINET	DEPTH	24"
COUNTER TOP	MATERIAL	BUILDER TO SELECT
CABINET	FINISH	STAIN GRADE
BACKSPLASH	HEIGHT	•
	SERVICE	
TOE SPACE	HEIGHT	4*.
DAGE CARWET	HEIGHT	36"
BASE CABINET	DEPTH	24"
	HEIGHT	36"
UPPER CABINET	DEPTH	15"
COUNTER TOP	MATERIAL	BUILDER TO SELECT
CABINET	FINISH	STAIN GRADE
	HEIGHT	6*
BACKSPLASH	LINEN	0
TOE CDACE	HEIGHT	4*
TOE SPACE	HEIGHT	36"
BASE CABINET		
	DEPTH	24"
UPPER CABINET	HEIGHT	42"
	DEPTH	12™
COUNTER TOP	MATERIAL	WOOD
CABINET	FINISH	STAIN GRADE
	OWNER'S E	
TOE SPACE	HEIGHT	4*
BASE CABINET	HEIGHT	36"
Bride Gribine)	DEPTH	22"
COUNTER TOP	MATERIAL	BUILDER TO SELECT
CABINET	FINISH	STAIN GRADE
BACKSPLASH	HEIGHT	6*
BATH TUB	TYPE	DROP IN (SIZE PER PLA
DAIN IOD	HEIGHT	FIELD VERIFY
SHOWER PAN	SIZE	PER PLANS
SHOWER WAINSCOT	MATERIAL	BUILDER TO SELECT
SHOWER HEAD	HEIGHT	84"
MIRROR	HEIGHT	42"
	CONDARY BATI	
TOE SPACE	HEIGHT	4"
	HEIGHT	32"
BASE CABINET	DEPTH	22"
COUNTED TOD	MATERIAL	BUILDER TO SELECT
COUNTER TOP		STAIN GRADE
BACKSPLASH BACKSPLASH	FINISH	6°
DAUNGELASH		
BATH TUB	TYPE	PER PLAN
	SURROUNDS	PER PLAN
SHOWER PAN	SIZE	PER PLAN
SHOWER WAINSCOT	MATERIAL	PER PLAN
SHOWER HEAD	HEIGHT	78"





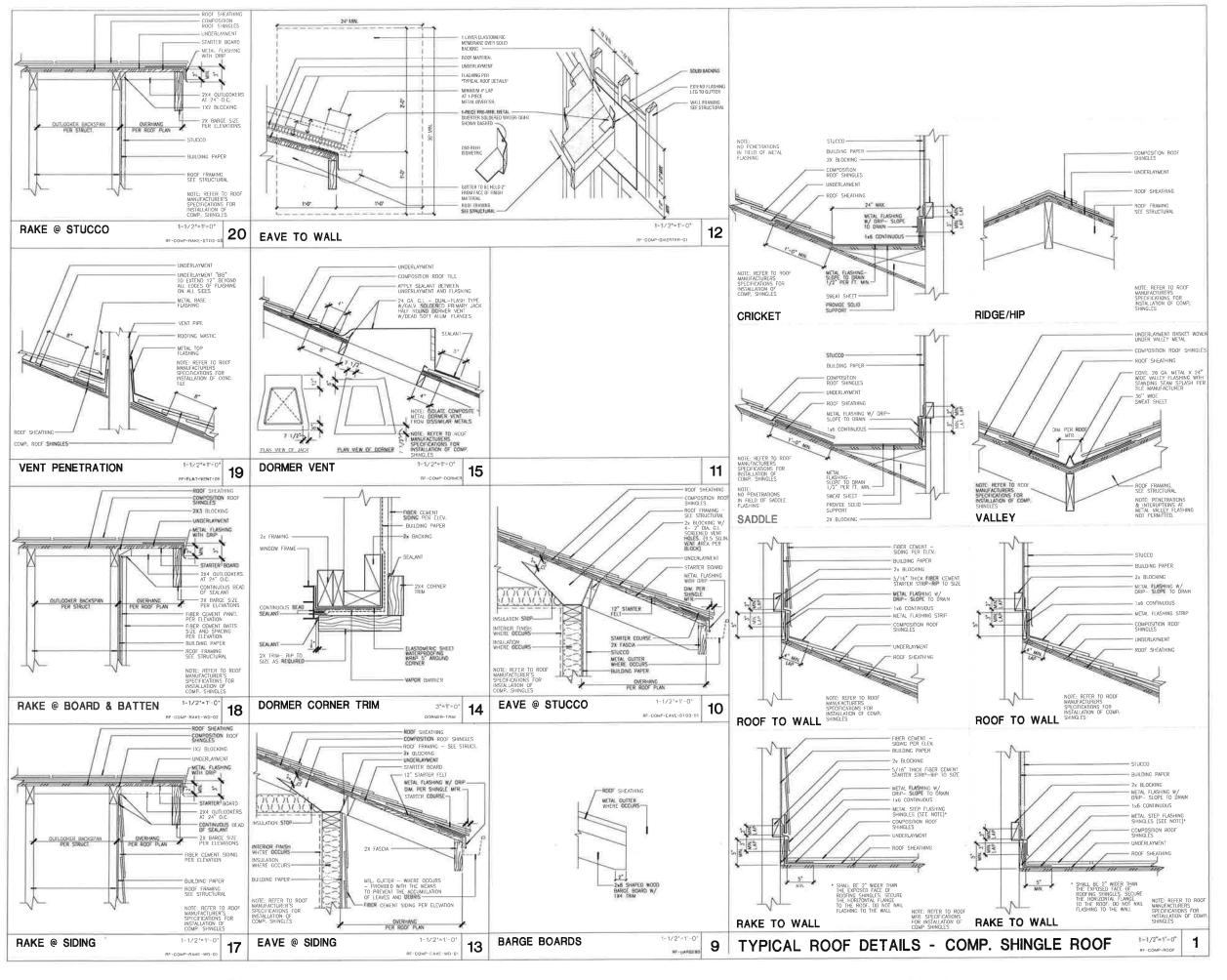
FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

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DUPLEX - UNITS A & B INTERIOR ELEVATIONS

12-30-2019	A100.5
DATE:	SHEET:
CAD FILE NAME :	
JOB NUMBER :	2019034
ISSUED FOR CONSTRUCTION	
1ST BLDG. DEPT. SUBMITTAL :	
REVIEWED BY :	
DRAWN BY:	J.D.L. / F.B.
DESIGNER :	M.R.
PROJECT MANAGER:	

SCALE: 1/4" = 1'-0"



ORANGE COUNTY LOS ANGELES BAY AREA

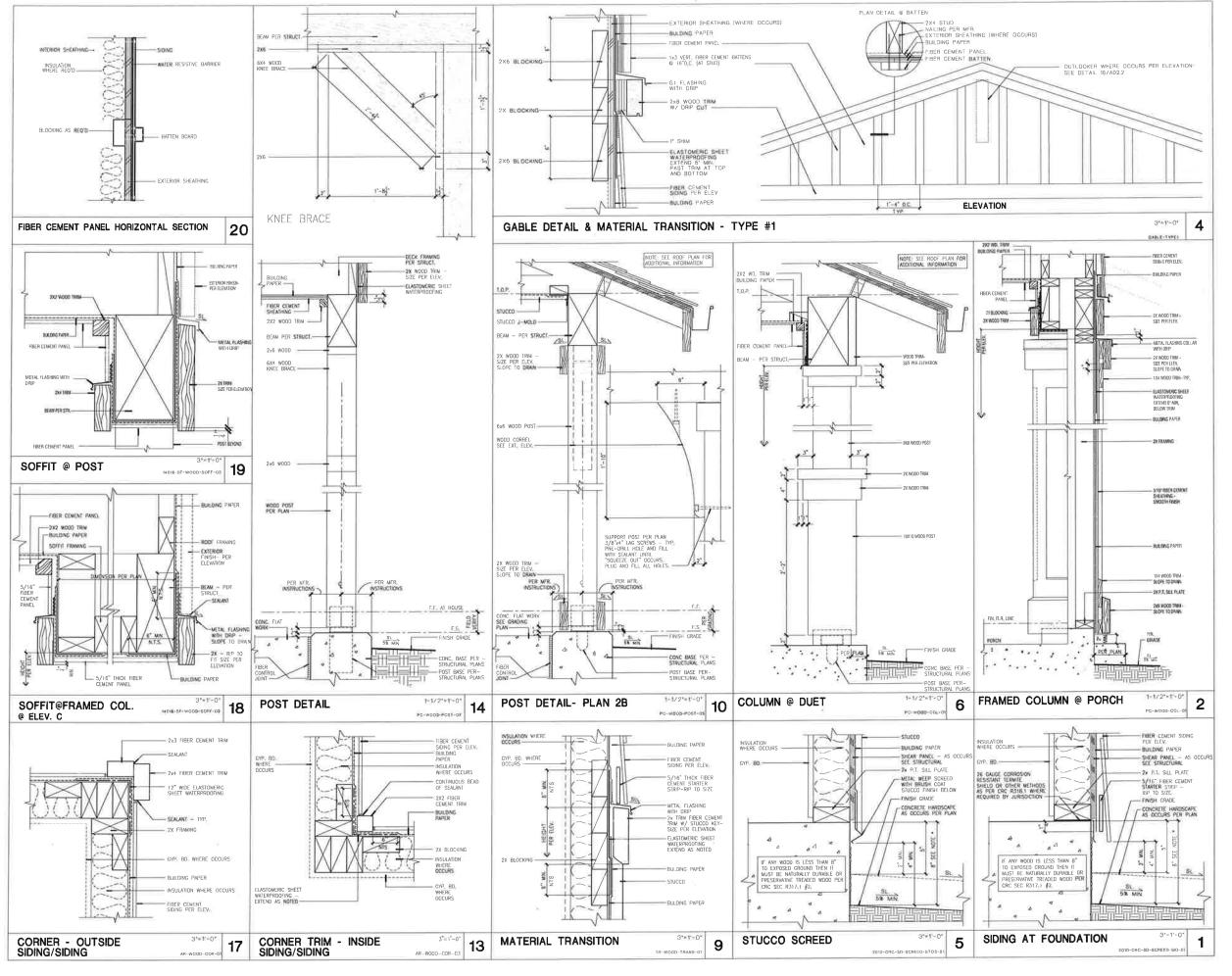


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FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA NOT SCALE

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DRAWN BY:	LP:
DESIGNER:	M.R.
PROJECT MANAGER:	



ORANGE COUNTY LOS ANGELES . BAY AREA

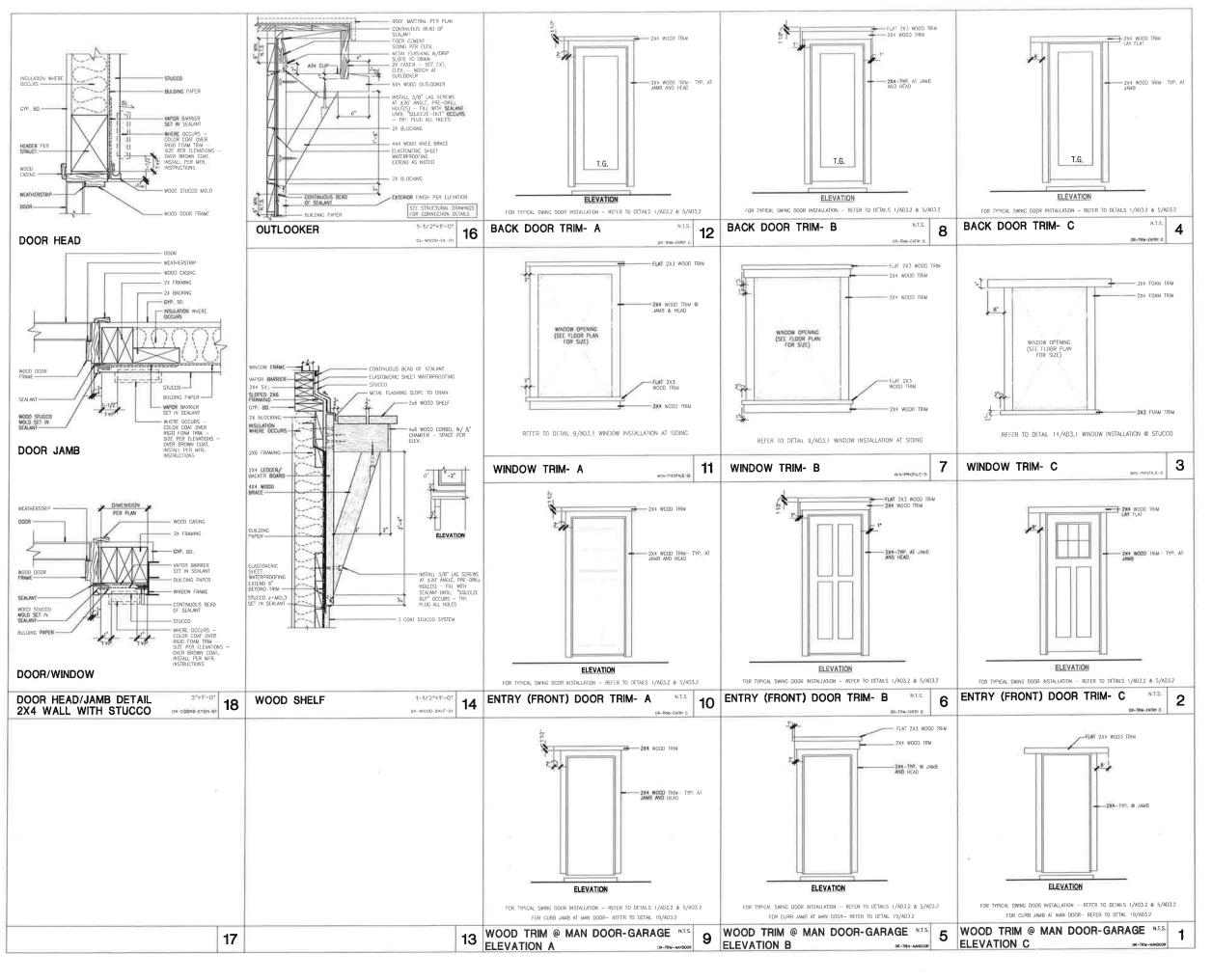


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FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA

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DRAWN BY :	LP.	
DESIGNER :	M.R.	
PROJECT MANAGER:		

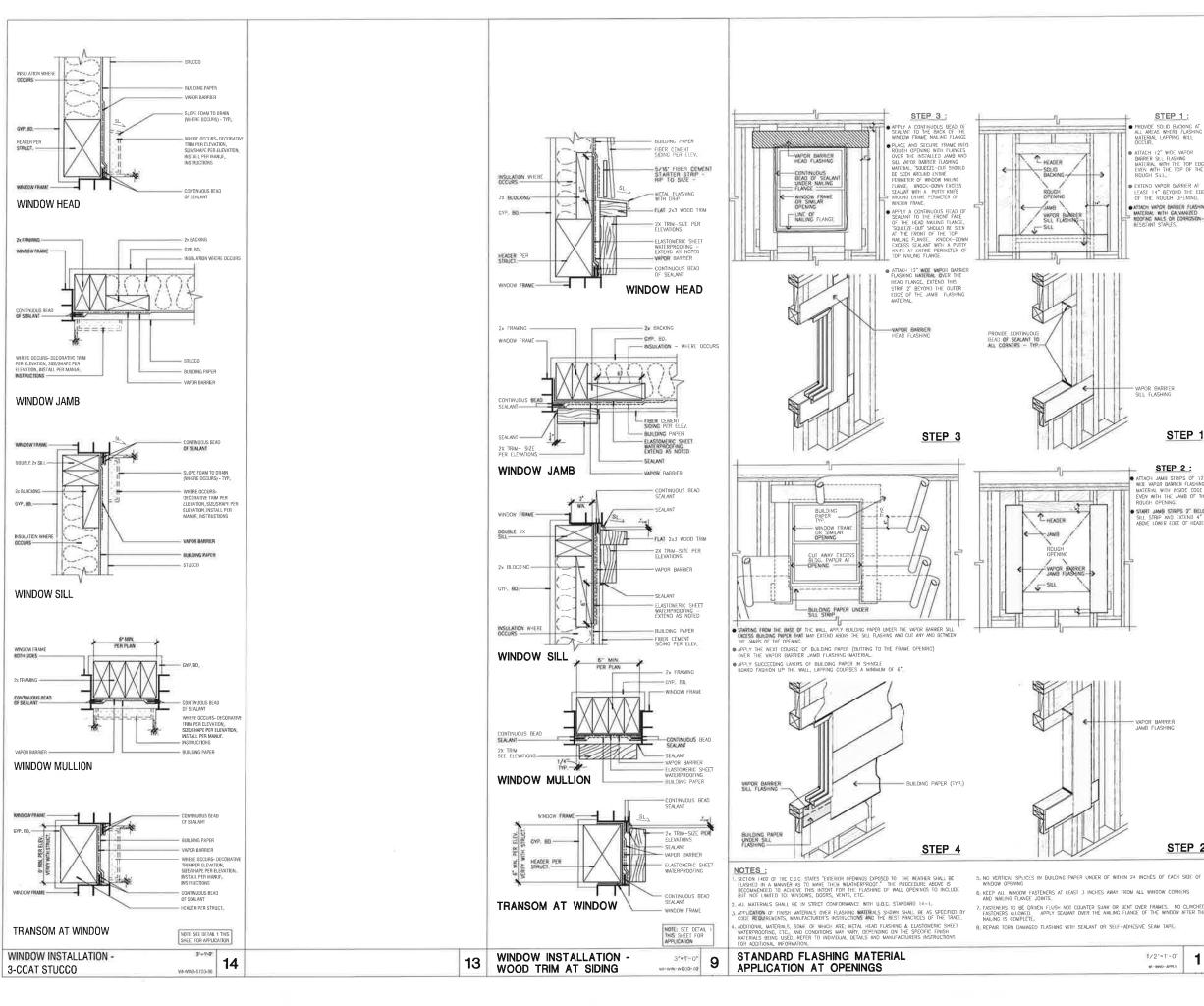




SANDALWOOD (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA

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JOB NUMBER :	2019034
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1ST BLDG. DEPT, SUBMITTAL	
REVIEWED BY :	
DRAWN BY:	
DESIGNER :	M.R.
PROJECT MANAGER :	





ORANGE COUNTY LOS ANGELES . BAY AREA



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FOCUS REALTY SERVICES INC. LAFAYETTE, CALIFORNIA SANDALWOUU (A.K.A. BENETT PLACE) SANTA ROSA, CALIFORNIA

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ARCHITECTURAL DETAILS

DESIGNER :	M.R.
DRAWN BY:	L.P.
REVIEWED BY:	
1ST BLDG, DEPT, SUBMITTAL	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER :	2019034
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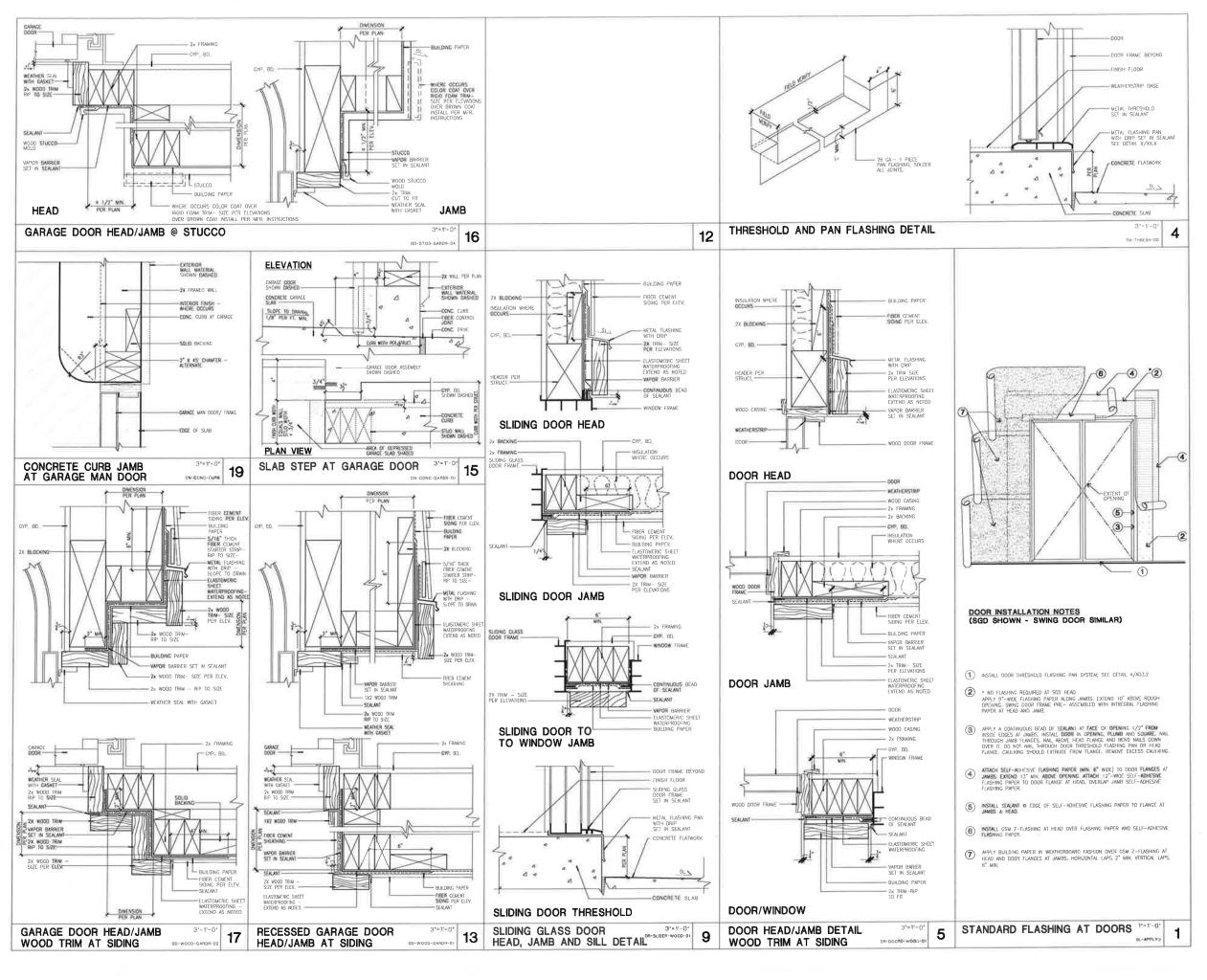
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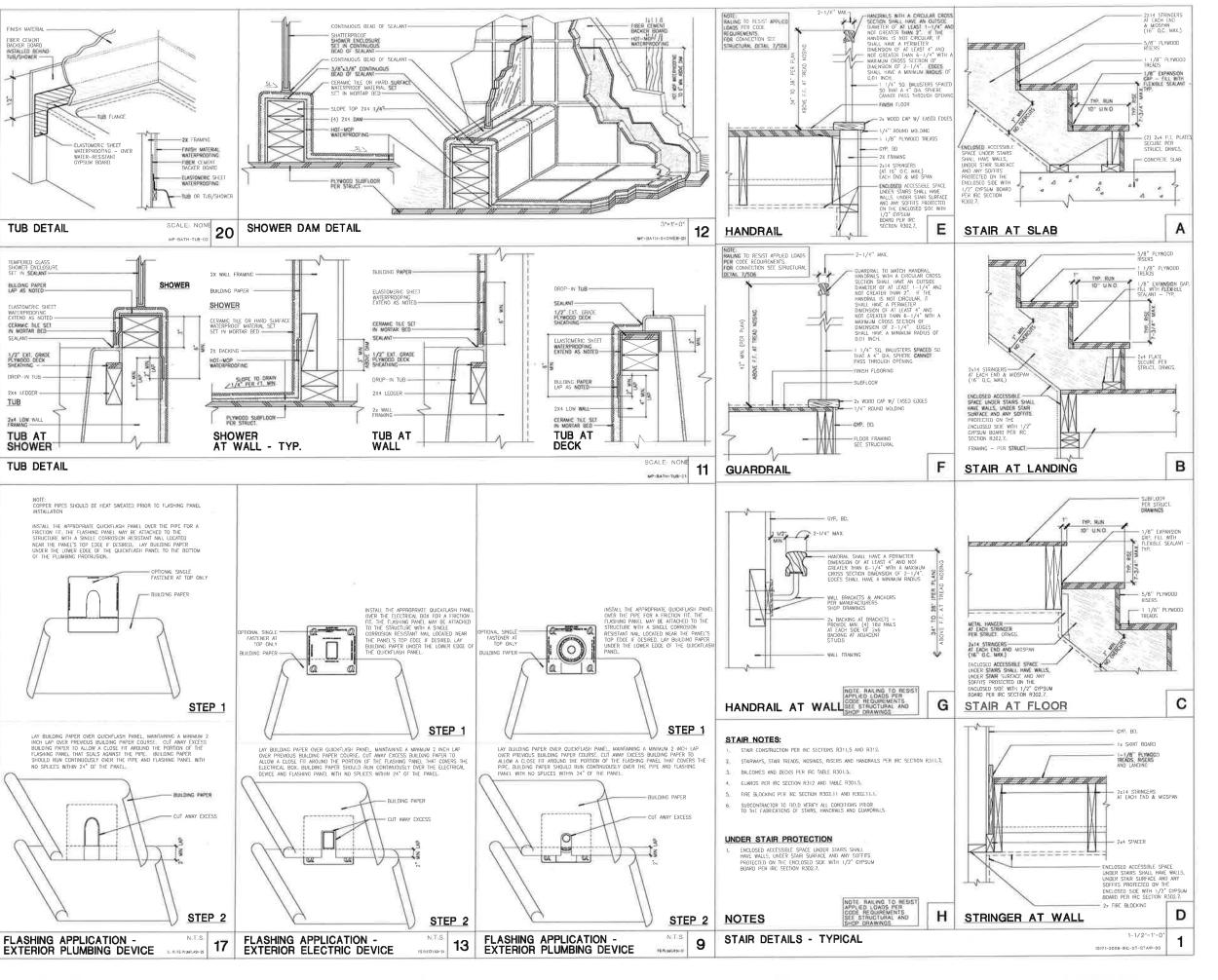


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JOB NUMBER :	2019034
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ORANGE COUNTY - LOS ANGELES - BAY AREA

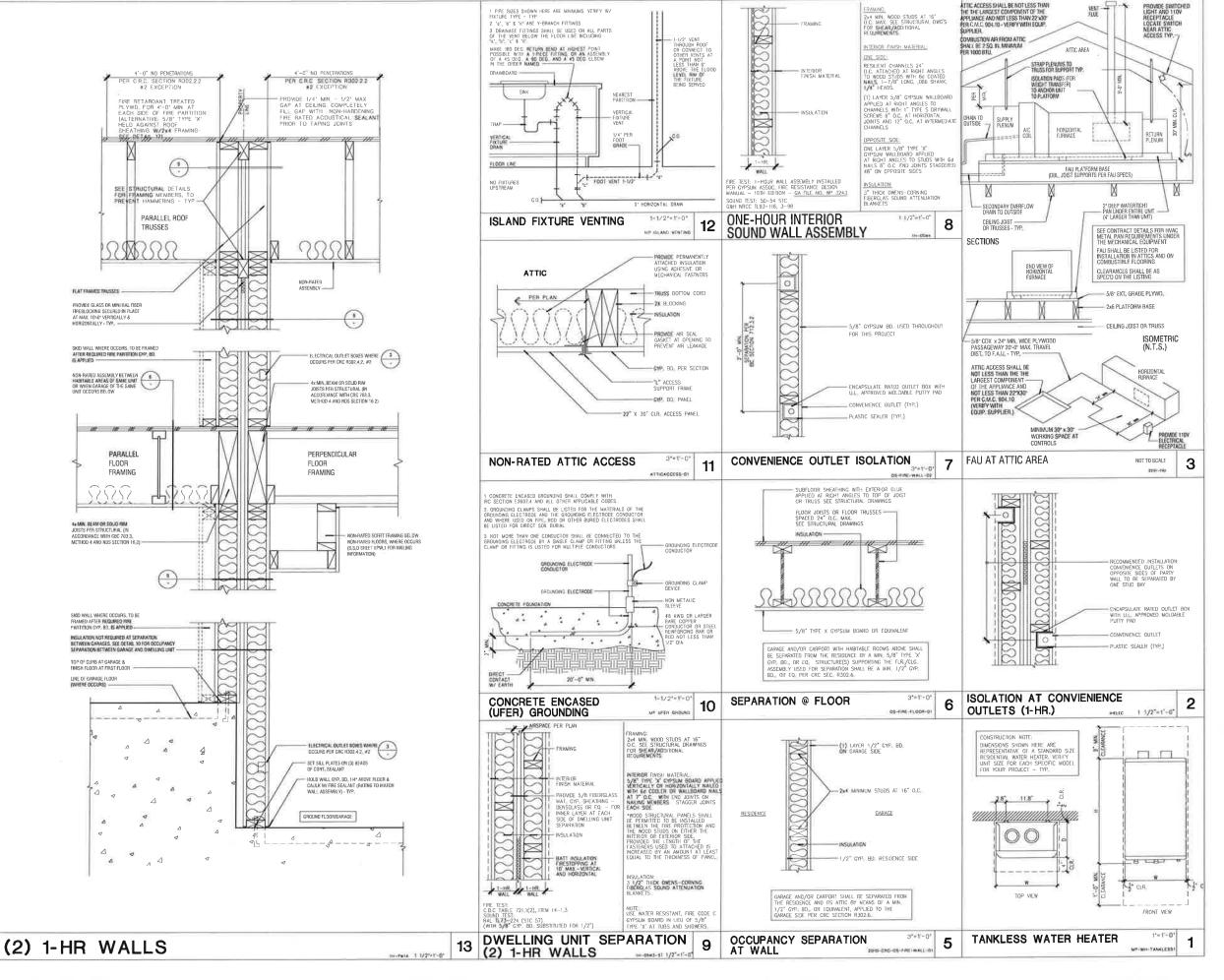


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JOB NUMBER :	2019034	
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DESIGNER	M.R.	
PROJECT MANAGER :		



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ORANGE COUNTY LOS ANGELES , BAY AREA



DUPLEX

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DESIGNER	M,R,
PROJECT MANAGER	



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Lenox Hornes 3875 Mount Diablo Blvd , Suite 350 Llayette, CA 94549 (925) 238-8470 CBECC-Res 2019 1.0 Re: Sandatocod in Santa Ross, CA



Climate Zone 92 2019 Code Compliance

	Photovoltalc		2 54 kW
	Siding & 3-Coal Stucco		Unit A
	File Name		LH1814SW
	Square Footage		1814
	% Above Code		0.3%
	% Cooling Improvement		12:0%
	Number of Stories		2
	Glazing Percentage		19.96%
	Roofing Material		Asphall
Envelope	Reflectance/Emittance		0 10/0 92
0	Affic Floor/Vault**		R-38
Š	Attic Below Roof Deck		R-19
E	Redent Barrier		-
ш	Wall 2x4		R-15
	Wut 7x6		R-21
	Knee Walt		R-15
	Floor Over Garage/Exterior		R-21
	Sub Floor/Slab		Slab
	Minimum SEER/EER Value	9	15 8/12 5
Q	Minimum AFUE/HSPF		0 95
S	Duct Insulation		R-6 0
Í	Whole Hoose Fan (CFM)		-
	Fan Wattege		Yes (0 45)
	Airflow (CFM)		Yes (350)
	Duct Testing Required		Yes (5 D%)
g	Indoor Air Quality (CFM)		Yes (80)
F	Kitchen Range Hooki		Yes
HERS Inspections	Refrigerent Charge		Yes
Ř	SEER Verification		Yes
당	EER Verification		Yes
Ĕ	Infiltration (CFM)		
S	Ducts in Conditioned Space	e	-
œ	Low Leakage Air Handler		Yes
뿌	Buried Dotts		1.0
_	Surface Area		350
	insulation inspection**		Yes
	Foot Type		Natural Clea
0	Uniform Energy Factor (Ta	Same Line	0.56
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	Windows	U-Value	SHGC
	Operable Cliding Close Progr	0.28	0.24

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Focus Realty Services INC. 3675 Mt. Diablo Blvd., Suite 350 Lafayette, CA 94549 (925) 283-8470

CALIFORNIA LIVING & ENERGY The 24 Compliance - Restential Non Restential

Sandalwood Santa Rosa, CA

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NOTE. The loads shown are only one of the criteria affecting the selection of HIAC equipment. Other relevant design factors such as airflow requirements, outdoor design temperatures, coil sixing, availability of equipment, oversixing safety morgin, etc, must also be considered. It is the HIAC equipment is installed system to meet all tenery six requirements if applicable. The minimum sixe of the residential heating systems is regulated by the California Building Code (CBC). Section 310.11. The CBC requires that the heating system be capable of maintaining a temperature of 70° at a distance three feet above the floor throughout the conditioned space of the building California Living & Energy: does not warrant on assume responsibility for performance or installation of ony equipment labeled or alluded to on any calculation produced by California Living & Energy: Builder and all sub-contractors working on the project involving Title-24 understand and accept all aspects of the Title-24 submitted to building department pertaining to their work. All subcontractors are responsible to contact the builder and California Living & Energy before beginning work filter is any error to any calculation that would prevent the Sub-Contractor from warranting the performance of his product which includes any Energy Star procedures.



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tiesely blesses	Hereigner .	Wood Issued Certify	national Physioletics #180001	**	16	een	invite Junio Gypamilinad Centy/Inane 8-91/2/18lin Chris One (1981) and 5-789 and
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Application Name and Advanced Communications	New Address of the Control	MARKET AND STREET
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Lenox Homics 3675 Mount Diablo Blvd , Suile 350 Lfayette, CA 34549 (925) 238-8470 CBECC-Res 2019 1.0 Re: Sandalwood in Sanla Rosa, CA



Photovoltaic		2 46 kW
Sisting & 3-Coat Stuce	o .	Unit B
File Name		LH15325W
Square Footage		1632
% Above Code		0.6%
% Cooling Improvemen		11 4%
Number of Stories		2
Glaziny Percentage		18 15%
Roofing Malerial		Asphall
Reflectance/Emittance		0 10/0 92
Attic Floor/Vault**		R-38
Attic Below Roof Deck		R-19
Attic Floor/Vault** Attic Below Roof Deck Radwnl Barrier		
Wall 244		R-15
Wall 2x6		R-21
Knee Wat		R-15
Floor Over Garage Este	rior	H-21
Sub-FinerState	000	State
Moinum SEERIEER V	Moe	150/125
Mornum AFLIERISPE	0.000	0.86
Dust Insulation		840
I Whole House Fair (CFN	43	
Fan Wattage	4	Yes.02 455
Altfow (CFM)		Ves (350)
Dust Testing Required		Yes (5.0%)
	1	Yes [73]
O Kitchen Range Hood		Yes
Refrigerant Charge		Yes
SEER Verification		Yes
EER Verification		Yes
■ Infiltration (CFM)		-
Ducts in Conditioned St	ace	-
Section Ar Guilly (CM) Kethen Rema Hood Refrigerant Charge SEER Verification Infiltration (CFM) Ducts in Conditioned St Low Leakege Air Handl Buried Ducts		Yes
I Buried Ducks		
Surface Area		1.5
insulation inspection**		Yes
Fuel Type		Natural Gas
Q Uniform Energy Factor	(Tenkless)	0.96
I Dishibution		Districted.
Windows	U-Valu	e SHG
Operable		0.24
Stiding Class Door		6.25

Dale of Plane:

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Focus Realty Services INC. 3675 Mt. Diablo Blvd., Suite 350 Lafayette, CA 94549 (925) 283-8470

CALIFORNIA LIVING & ENERGY The 24 Compliance - Residential Non Residential

Sandalwood Santa Rosa, CA

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SHEET

NOTE: The loads shown are only one of the criteria affecting the selection of HLAC equipment. Other relevant design factors such as airflow requirements, outdoor design temperatures, coll string, availability of equipment, oversizing safety margin, etc. must also be considered. It is the HLAC equipment strength in the considered of the considered of the strength of the considered of the strength of the considered of the strength of the considered system to meet all line gy Star requirements of applicable. The minimum size of the residential heating system is repulsed by the Collifornia Bittings (See Collifornia Collifornia Living & Energy). But It the CRE requires that the heating system be capable of matinishing a requirement of 70° at a distance three feet above the floor throughout the conditioned space of the building California Living & Energy. Builder and all sub-contractors working on the project involving Title-24 understand and accept all aspects of the Title-24 submitted to building department pertaining to their work. All subcontractors are responsible to contact the builder and California Living & Energy before beginning work of their is any error in any calculation that would prevent the Sub-Contractor from warranting the performance of his product which includes any Energy Star procedures.



2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low non-residental buildings subject to the Energy Standards must comply with all applicable municipity measures; regardless of the compliance appropriate the respective section for must information. Exceptions may apply

Building Ervelo	pe Measures:
£ 110 K(4)1	AV Castage. Manufactured fenetration, evision doors, and exterior per doors must finit an equage to 0.3 ctivit? or less when tested per NFBC-400 or ASTM E283 or AAMA/ADMA/SSA 1516 S 2A440 3011
\$ 110 6005	Labeling: Feneritation products must have a latter meeting the requirements of § 10-111(e)
§ 110 Albis	Field fabricated extensive doors and fanastration products must use to listons and soar hear gain conflicient (SPCC) values from TABLES. 110.6.A and 110.6.8 for compliance and must be sourced and/or weathershipped.
§ 1107	Air Leakage. All portic germinations, and other spervings in the building anvailage that are patential sources of an hairage must be counted guitalised or weather stopped.
\$ 110 Maz	Insulation Certification by Manufacturers. Insulation specified or installed must meet Standards for insulating Material
\$ 110.6(0)	Insulation Requirements for Hisated Stati Fiscers. Healed stati Foors must be insulated per the requirements of § 110 0(g)
5.110 (0)	Roofing Products Solar Reflectance and Thermal Emittance. The Internal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110 80) when the imitation of a cool roof is speculated on the CF 1R.
§ 110 8QT	Radient Barrier, A radient berner must have an emittance of 0.65 or less and be certified to the Department of Consumer Affairs.
§ 150 C(4)	Ceiling and Righter Rood transplaces. Monorum IR 20 insulation is excised to the swelpt of leavings of inflate motion accessed and monoral register of the swelpt of leavings of inflate motion accessed and included and included and included accessed and included and included accessed accessed and included accessed and included accessed and included accessed accessed accessed and included accessed accessed accessed and included accessed and included accessed acc
§ 150 O(b)	Losse Ell Insulation, Loose fir insulation must meet the manufacturer's required demany for the labeled Rivelue
§ 100 000	Above Grace Well Insulation, Minimum R-13 insulation in 2N inch wood training well or have a Unitative of 0 102 or less (P-18 in 2NEO Unitative of 0 003 or less (P-18 in 2NEO Unitative of 0 003 or less of 0 102 or less (P-18 in 2NEO Unitative of 0 003 or less of 0 102 or less (P-18 in 2NEO Unitative of 0 003 or less of 0 102 or less (P-18 in 2NEO UNITATIVE OR INTERIOR UNI
§ 150 (00)	Rained-Foor Insulation, Minimum III-19 insulation in raised wyoShamed foor or 0 007 maximum U-factor
§ 150 (kf)	Said Edge Insulation. Such edge immulation must meet all of the following share a water adoption rate. So the immulation must wrone without soons, no greater than 2 point from 5 beginning the immulation must work with option of the immulation of
§ 150 C(g)1	Vapor Retarder, in Circuits Zones 1-16, the earth foor of unvented providings appearment also appears to consisted ventilation providings appearanced also appears to consisted ventilation providings appearing with the exception to § 150 (I/C).
§ 150 0(g)2	Vapor Retarder, in Omate Zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all imputation in all extends with, vertical effice, and unsented efficis with an permatche insulation.
§ 150 čira	Ferestration Products. Ferestration, including skylights, separating conditioned space from unconditioned space or sulfators must have a maximum to factor of 0.58, or the weighted average to factor of all functions must not exceed 0.58.
Fireplaces, Deco	rative Gas Appliances, and Gas Log Massures:
& 150 Chights	Clearbile Doors. Masonry or factory build freplaces must have a docube metal or glass door covering the entire operang of the findice.
\$ 150 ((e)11)	Combustion intake. Majorry or factory-but freplaces must have a combustion outside an imake, which is at least as access motes in area and its equipped with a mostly accessible impossible and tight fitting stamper or combustion air combil device.
§ 150 0(V) 907	Flue Damper, Macony or factory built freplaces must have a five domper with a readily accessive control
§ 150 0(4)2	Plot Light. Corporable buring prior lights and the use of indoor an for cooling a frebox jacket, when that indoor an is vented to the outside of Probabilising are prohibited.
Spece Condition	ing, Water Heating, and Plumbing System Heasums:
\$1100\$1103	Contribution, History vertilator and an conditioning PMAC) equipment, water houses, showerheads, facosts, and all other regulated appliances must be certified by the manufacturer to the Energy Commission*
6 110 Z(X)	HVAC Efficiency. Ecupment must meet the applicable efficiency requirements in TASIE 1102A through TABLE 1102A.
§ 110 2(b)	Centrol for that humps with Supplementary Exercis Resistance Hasters. Insid pump, win accommittary sector districts that make the control of the pump of the control of the
\$110,200	Phermostate. All unitary heating or cooling options not controlled by a central energy management control system (EMCS) must have a settage thermostal.
§ 110 3(c)s	Water Heating Recirculation Loops Serving Multiplic Dwelling Units. Water heating recirculation loops serving multiple deeping units must meet the air eleaste valve, tackflow presention, pump pointing pump radiation valve, and recirculation top pointed on requirements of § 100 X(c).
§ 110 3(c)?	leasance Valves, instantaneous water heaters with an input rating greater than 6.8 kBTU/hr (2 kW) must have solution valves with hose bobbs or other fittings on betti cool water and hot water hose of water heating systems to allow far water sank flushing when the valves are dotted.
ş mis	Part Lights. Continuously burning print ignits are provided for natural gas, has fight demail furnices, household cooking appraises (approved when a revention largery variage connection with pold lights that concurre less than 150 this first evention), and pay hearins.
§ 150 0001	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with ASHRAE Handsons. Excipated Values. Applications Values, and Fundamentals Values (ASMCHAE Repositual Content System Installation Standards Values or ACCA. Manual Juvenia design conditions benefit on \$150,000.2

	Clearances. Installed an ecoderonal and heat pump outdoor conduming with must have a clearance of at least 5 feet from the such of all
€ 150 ONJM	Cyet yet!
§ 150 00/336	Liquid Lima Drian, installed an extractioner and feet pump by trains must be equipped with equid the filter drians if required, as specified manufacturer's instructions.
£ 150 0634	Storage Tata insulation. Unfred hot water tarks, such as storage tarks and backup storage tarks for some water heating systems, multi-12 extense insulations. H-16 internal insulation where the internal insulation for usine is indicated on the extensy of the tark.
§ 150 Ogga	Water piping and cooling system the insulation, For committee to wide righted purity and cooling system the insulation. For committee county less in the insulation between the control of the insulation of ATIALE LESS of the first Sheet of the control and control with representation to the companion of an insulation of all violations of a large, or good passociated with a discriment on all with representation system regard dates of the cool and the control of the cont
\$ 150.0028	Water piping and cooling system line insulation. All corrects hat water poper that are buried bloom grade must be initiated in a water and non-countable cooling or slaves.
§ 150 06/2C	Water piging and cooking system tine insulation. Pipe for cooking system since must be insulated as specified in § 150 Gij DA. Distribution of the second systems on the water systems must meet the requirements in TABLE 122 S.A.
§ 150 0033	insulation Protection, insulation must be protected from damage, including that due to sureight, morture, equipment maintenance, and
§ 150 00(0A	Insulation Protection, Incuston exposed to washer must be installed with a cover suitable for outdoor beninde. The example, protected attenues, these metal, parties canner, or places cover. The cover must be water installed and provide shalled by defending from solar radiation for solar deep close of the mustles.
\$ 150 (0),339	Insulation Protection, Insulation covering chitaic water piping and retrigerunt suction piping focused curisde the conditioned space must Class for Class I responsibilities installed.
§ 150 C(r)1	One or Properting Regions, injustment wanty give or properties were featured to serve exchanged under what introduce and of the observed LTML wearness an execution weren in their the value feature, a collapsing in or if want, or a 1 gips if the value through a collapsing in or if want, or a 1 gips if the value through a collapsing in or if want, or a 1 gips if the value through the termination and the space where the wealth install or installation and all provides a contract to contract the contract through the termination and the space where the contract and the contract through the contract through the contract through the value of the contract through the contract through the value of the contract through the contract through the value of
\$150,0002	Recirculating Loops. Recipilating toops serving multiple deeping units must meet the requirements of § 110 3(c)5
§ 150 O(1)	Salar Water-hapting Systems. It is worse having systems and poscolors must be certified and noted by the Sour Rating and Centrics Corporation (SRCC) or by a listing approxy that is approxed by the Executive Director
Dutte and Fans	
Dytal and Fami	Durts. Insulation installed an an existing approximationing duct must comply with \$ 604 G of the Captures Mechanical Code (CMC) if
\$ 110 0000	contractor installs the insulation line contractor must certify to the customer, in writing, that the insulation meets this requirement
& 150 Q(H)1	CMC Companies. All an administration grain ducts and principles must be inclined, seek ordinated to meet the New powerwist set CMC (ACC Companies. All an administration of the CMC Companies. All and administration of the CMC (ACC COMPANIES.) And CMC COMPANIES. All and CMC CASE CASE CASE CASE CASE CASE CASE CAS
§ 150 00/152	Factory-Fabricated Duct Systems. Factory fabricated duct systems must comply with approach or equirements for duct construction, consistent and clauses, joints and seams of duct systems and here components must real be sealed with plant back subter achieve topic unless such fape in water in combination with mustic and diver bands:
§ 1500(+)3	Field Februardet Duct Systems. Feld fight added duct systems must comply with applicable requirements for greenure sentitive tapes, mustice, swaterts, and other requirements specified and construction.
§ 150 D(H)7	Backdraft Dampers. At fan systems that exchange an between the conditioned space and the outside of the bording must have backet automatic dampers.
§ 150 00m98	Gravity Verification Democra: Gravity verticating systems serving conditioned space must have wither automatic or readily accessible, manually operated charges and elevator shall verify manually operated charges and elevator shall verify.
	Protection of Insulation, Insulation must be protected from damage, including food our is queried, modelum excuprior insulations and insulation recognition exposed to examine successive for outdoord services. For example, excitantially services, visited must be partially on outdoord services. For example, excitantially services, visited must partially services and outdoording protects only of the control of the services of the
§ 150 otalis	sour padaton
§ 150 Oprijis § 150 Oprijis	Foreus Inner Core Fiex Duct. Foreus inner sore Tax duct must have a non-porous layer between the inner core and outer export between
22.	

-	2016 Low-Rise Residential Mandatory Measures Summary
	Duest System Sizing and Air Filter Gride Blaing. Space conditioning systems that use fooded an outsit to supply cooling to an occupabile space must have a hole for the pacement of a state preparate problem (FSFFF) as the supply default. The space conditioning systems must also demonstrate affice or a second coding capacity from must also demonstrate affice. Also CFM per and coding capacity from must also memors as affice a 250 CFM per and coding capacity from must also coding capacity from the safety.
§ 150 0(m)13	grides, and an an Austrage until to a sticking in 5.54 WCFM as continued by field sertication and disposits trending in accordance with Reference Residents Appends RN3.3 This applies to both larger some central forced an explaine and every zone for zonatily commonly dearned.
	to trade or system Venturion for Indoor Air Quality. Air desiring units must make the requirements of ASHRAE Standard 62.2 Hariter window operation no
\$150 0(0)	Yentiabou for indoor Air Quelly. Air Owing shift must need the requirements of Authorize International CV Femilia whole up to an own of Contract round an extend of the response of the respon
§ 150 00:01A	Field Verification and Diagnostic Testing. Where building vertisator andow must be confirmed through field verification and diagnostic leading, is accordance with Reference Residential Appendix RASY.
Pool and Spa Sy	ystems and Equipment Measures:
\$ 110-4(4)	Certification by Manufactures. Any poor or parking system or experient must be conflicted in texal and the following a thermal efficiency may be compared to the compared to produce the produce of the compared with the places of External placetains, are not in terminal must require of the texture inchools experient seating, a permanent weatherprodipties or cost with operating mitrostoms, and must and use electric resolution sharing.
§ 110 (00)1	Piging. Any good or sperheding equipment must be included with at head 35 inches of pice between the little and the feature or conditional seation and return keet, or built in or built-up connections to allow for future sater healing.
§ 110 6002	Covers. Outdoor pools or spes that have a heat pump or gas heater must have a cover
§ 110 A000	Directional inlets and time switches for pools. Poors must have directional inlets that adequately mix the poor water, and a time switch that will allow all pumps to be set or programmed to run only during of pains electric demand periods.
§ 1105	Print Light, Natural gas pool and spe healers must not have a continuously burning print light
§ 150 ((p)	Pool Bystems and Equipment tratalistics. Residental post systems or equipment must meet the specified requirements for pump poing those size pump filters, and valves."
Lighting Measur	nk .
§ 110 G	Lighting Controls and Components. All agency control decises and systems, bullette, and luminaries must meet the applicable requirements of § 10.00.
5 110 100)	JAS High (Micacy Light Sources. To quarty as a JAS high efficacy light bource for conceance with § 150 ((k)), a recident all light source must be centred to the Energy Commission according to Malerance John Appendix JAS
§ 150.0(k)1A	Committee Efficacy, All installed humanism must be high efficacy in accommode with TABLE 150 th A
§ 150 QEQ18	Blank Electrical Blacks. The number of electrical board has an errors than 5 feet access the finished boar and do not come a Automorphise upon descending the opposite than the number of boardown. These electrical board must be served by a deman, security servair conflict or the speed common.
§ 150 OXYIC	Received Developt Luminates in Ceitings, Luminates received into ceitings must meet all of the outperfereits for involved central (IC) belong at least any mantenance, and score and offer sources advected in § 150 (IO) (IC) A JA-2016 Eight source advected in § 150 (IO) (IC) A JA-2016 Eight source advected central time promote must be interpreted by feet invoiced in all contracts developed transmission in determining the contracts of the contract of the contra
§ 150 0(x)1D	Electronic flatinata. Builds for fluorescent lamps raised 13 wasts or greater must be westione and must have an output frequency notices than 20160.
§ 150 COQ1E	Night Lights. Parmanently initiated right lights and right lights inlegal for installed luminaries or enhance than must be raised to consume no main bents allowed on luminaries or enhanced that switch if power per luminaries or enhanced from a determined in accordance with § 136 Gc). Night lights do not resid to be commonly by scalarry remove.
§ 150 0(x)1F	Lighting integral to Exhaust Fans, Lighting integral to exhaust fans (except when installied by the manufacture in kitchen exhaust hoods) must mee the applicable requirements of § 1500(x).
\$ 150 00315	Screw based luminaries. Strew bisned unmanies must not be received downings from his content and must content interport that comply sern literance Joint Applicats JAS Initiating lamps must be marked with "JAS 2016" or "JAS 2016" at opposition in Retirence Joint Applicats JAS " JAS"
§ 150 0001H	Enclased Communities. Light sources installed in ancipsed furnishers must be JAB complant and must be marked with "JAB 2016 E."
§ 100-00-32A	Internet Switches and Controls. All forward phase out dimmors used with LED light sources much compty with NEMA SSI. 7A
§ 150 (24)29	Interior Switches and Controls. Exhaust taris must be switched separately from options systems."
§ 150 0932C	Interior Switches and Controls. Luminous must be switched with restily occessorie control that point the luminous to be manually switched OH and OFF.
§ 150 0(x)00	Interior Switches and Contrats. Contrats and equipment must be installed in accordance with manufacturer's instructions
§ 150 0(4)2E	interior Switches and Controls. No control must hypers a dimmer or usuality sensor function if the currier is installed to comply with § 150 (b):
§ 150 00/32F	Interior Switches and Centrals. Lighting corrids must comply with the applicable requirements of § 110 9
§ 150 0(x)203	internol Switches and Centrals. An energy management common system (EMCS) may be used to comply with distract requirements if it. furticity, as a dimmer according to § 100 pt mess the installation Centrals requirements of § 100 pt mess; the EMCS requirements of § 335 (b), and mess at other requirements as § 100 pt.
§ 150 0002H	Interior Switches and Controls. An EMCS may be used to comply with recurring sensor requirements in § 150 (by) of a meets all of the following. It functions are asserted property occurring to § 110 %, the instantion Confinally requirements of § 100 % the EMCS proper exempts of § 100 % or an extraction confined and the recurrency of § 100 % the EMCS property of §
§ 150 0032	Interior Switches and Controls. A multicorre programmable controller may be used to comply with different eight memory of \$150.000 (iii) and provides the functionality of a dimmer eccording to \$110.9, and comprises with all other approache recomments in \$150.0000.

§ 150 DX303	interior Switches and Compute, in bettercome, garages, fecuntry rooms, and drifty rooms, at least one community in each of these accords must be controlled by a valuary sentor
§ 150/D/XXX	secondated a search primary. History Selfsche and Contines Ormans or vacancy sensors must complial furnishes required to have got source compliant with History other John Agencia. JAB enterplanmanes in Opports light have 10 years feet and luminates in halvegs.
\$ 150 (0132)	Interior Switches and Controls. Undercobnet lighting must be switched separately from other lighting systems
\$ 150 ((r)34	Residents Outdoor Lighting. For a right levely residents building, outdoor righting permissedly mounted as a recognite building or to see hundrings on the same let. I must resident the requestment in the 1550 00000 (III) and OTF security after the requestment in the first min. § 150 00000 (III) and OTF security after the requestment in the first min. § 150 00000 (III) and OTF security after the requestment on selfer days. § 150 00000 (III) and OTF security after the requestment on silter days. (III) and III) are security control advantaged in the security control advant
§ 150 00\38	Residencial Dutdoer Lighting. For low-rise mustaming residential buildings, coldate signing for privally public, eminimate, (accordes and portion, and outdoor lighting for residential purking bits, and immediate largest with less than eight services per size must compty with enter § 150,000,350 or with the springer residential residential (see 1500 to 302 to 304 to 400 and 141 0.
§ 150 0000C	Residential Outdoor Lighting. For inventor residents buildings with four or more diversing units, outdoor lighting interruption by a 150 february of the property with the presidential requirements of 66 to 0.5 100 2, 100 2, 100 7, 140 7 and 141 0.
§ 150 S(X)D	Residential Outdoor Lighting, Outdoor lighting for residential parking bits and residential carporits with a lister of eight or more
§ 150'0(k)4	Internally shaminated address signs. Internally illuminated access signs must comply with § 140 0, or must consume no more tran 5 wats or mover an elementary discrete \$ 130 Oct.
§ 150 QV25	Residential Garages for Eight or More Vehicles. Lighting for insidential parking garages for eight or more vehicles must camply with the
§ 150 C(1)SA	interior Common Arias of Low-rise Mail-Fainly Residential Business. In a live rise multilantly resident at busing where the total enteror common arias in a single busine ground 52 persons of less at the food area, per remembry enterior for gring for the interior common arias in a single busined must be for all coral incorary and commons by an occupied section.
§ 150 O(k)68	Interior Common Areas of Low rase Marin Facetry Massignmed Buildings, in a sowner multiturity responsed buildings are set of the common and a set of the country with a set of the country with the appropriate requirement in 65 (16.0), 1000, 1000, 1000, 1000, 1000 (10.0), 1000 (1
Solat Ready But	
§ 110 10(451	Single Family Basidences. Single termy resources located in took wasnes with ten or more single tarrity associous and where the application for a tentative incidence incidence for the resources has been defined compared by the enforcement agency must comply with the resourcement of 4.1 to 1000 tentage § 100 1000.
\$ 110 TODAY	Low-rise Math tamity Buildings, Low-rise multi-territy buildings must carryly with the requirement of § 110 10th 11rough § 110 10th
§ 110 tob(1	Manning Area. The total cover and there a minimum total review is described better. The least cover must comply with according planting committed and produced in 164 x, 34 m for our be that of 164 x in any impracting according to 164 x, 36 m and 164 x in any impracting according to 164 x in any impracting a contract to contract part in 164 x in any impracting a contract to 264 x in any impracting according to 164 x in any impracting a contract to 264 x in any impracting a contract to 264 x in any impracting according to 164 x in any impracting according to 164 x in any impracting according to 164 x in any impracting according to 264 x in any impracting according to
£ 110 10012	Orientation. All sections of the sixer zone located on steep sloped roofs must be oriented between 110 degrees and 270 degrees of true roofs.
§ 110 10003A	Shading The sale zone must not contain any obshuctions, including but not limited by works commercy, inclinited us features, and roof- mounted egopment."
§ 110 10(0(38)	Bhadding, Any distribution located on the road or any other part of the building that projects above a board zone must be located or lead to lack the control of the board of the state of the board of the observation projection of the reservation
5 110 10(0)4	Structural Design Coads on Construction Documents. For areas of the not opportunities polar zone, the structural dampin loads for mile duest best and not two load must be clearly indicated on the construction documents.
§ 110 10(c)	Interconnection Pathways. The construction documents must include a signature and material goupperstand a pathway to most not organized the size used to be signatured to the point of interconnection with electrical service (for large lately residences) the point of material products and the point of the
§ 110 10(d)	Occumentation. A copy of the construction accuments or a comparable accument inducing the information from § 110 Kbb) through § 110 Kbb) must be provided to the occupant

CALIFORNA LIFESTYLE

CALIFORNA LIFESTYLE

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LIVING & ENERGY

The 24 Completes - Residential residential

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Focus Realty Services INC.
3675 Mt. Diablo Blvd., Suite 350
Lafayette, CA 94549
(925) 283-8470

Sandalwood Santa Rosa, CA

> Mandatory Measures

> > SHEET

NOTE: The loads shows are only use of the criteria affecting the selection of HIAC equipment. Other relevant design factors such as airflow requirements, unifore derign temperatures, call sing, availability of equipment, oversiting sofety morgio, etc. must oftal be considered. It is the IIAC equipment is required to the considered. It is the IIAC equipment is required to the considered. It is the IIAC equipment is required to the considered in the considered of the considered

GENERAL NOTES

- All material and workmanship shall conform to the applicable edition of the California Building Code are 2016 versions of the CPC, CMC, CEC; all applicable local codes and ordinances; and locally accepted
- The contractor shall check all drawings immediately upon their receipt and shall verify all dimensionsite conditions before starting work. The engineer shall be notified of any discrepancies.
- Connections and implied construction assemblies that are not specifically described or detailed shall constructed using standard construction practices in compliance with the governing codes and
- 4. All detail references shall be considered "Typical". The intent of typical details shall be applied to similar conditions elsewhere in the project. When details labeled "Similar" are given on drawings, the contractor shall apply the general intent of the detail to the referenced condition,
- Written information and dimensions shall take precedence over graphic information. Do not scale
- 6. Structural drowings and specifications for this work have been prepared in accordance with generally accepted engineering standards of practice to meet the minimum requirements of the applicable edition of the CBC. Any omissions or discrepancies on the plans or any deviations from the plans that are necessitated by field conditions or any condition different from those indicated on the plans should be brought to the attention of the engineer prior to continuing construction. All work shall be coordinated so cooperation between the trades is accomplished.
- 7. The structural drawings show only the basic structural systems. Refer to the architectural, mechanical, and electrical drawings for items which require special provisions during the construction of the building.
- 9. These drawings and specifications have been prepared exclusively for use on this project only drawings and specifications, or portions thereof, shall not be used on other projects or additions to project except by agreement in writing and with appropriate compensation of the engineer.
- 10. The structural systems have been designed to carry the superimposed live loads as prescribed by the California Building Code and in accordance with standard engineering practices, with no special provisions to carry concentrated loads from storage and handling of construction materials or from operation of construction equipment...
- 11. The contractor shall maintain the integrity of all scoffolding, bracing, and shoring systems as required for installation, stability and safety of new work and existing structures, piping, and foundati systems. Contractor shall also provide for the safety of pedestrians and job site personnel. At all limes, the contractor shall be solely and completely responsible for the condition of the job site, including safety of persons and property. The contractor shall protect new and existing construction from inclement weather and from physical damage.
- 12. Contractor shall coordinate with the City to ensure all inspections (including special inspections) or completed per the local Building Department requirements. Approvals by Building inspectors shall not constitute authority to devide from the plans and specifications.
- 13. If provided, observation of the construction by the engineer is intended to improve the probability that the work is completed in general conformance with the engineering design intent. Observation of the construction by the engineer does not relieve the contractor of the responsibility for completing th construction in accordance with the approved construction documents and generally accepted standards.
- 14. All framing hardware shall be manufactured by Simpson StrongTie. Alternate framing hardware manufacturers shall not be provided unless specifically authorized by the engineer and the building or if alternate hardware systems are authorized, the contractor shall forward complete shap drowings for review and approval. Shap drawings shall include supporting documentation for all hardware, full size project plans with all new hardware all outs, and complete product catalogs.

CONCRETE NOTES

- All concrete work shall conform to the requirements of the ACI Building Code (<u>ACI-318-14</u>) and the California Building Code (CBC). Detailing, fobrication, and erection of reinforcing bars shall be in accordance with the Guide to Presenting Reinforcing Steel Design Details (<u>ACI-315R-18</u>).
- Concrete shall conform to A.S.T.M. 94 and reach the minimum strength specified on the foundation plans Concrete quality shall conform to provisions of CBC Chapter 19. Cement shall conform to A.S.T.M. C150, Type I or II. Concrete mix shall consist of 20% flyash content.
- Mixing water shall be clean and free from injurious amounts of all, acids, alkalies, organic materials other deleterious substances. Course aggregate shall be hard, durable crushed stone or gravel grader A.S.T.M. C33, Maximum size aggregate shall be 3/4*, Sand shall be clean, hard, durable, washed e from slit, loam or clay.
- Reinforcement shall not be displaced or cut to provide for penetrations, inserts, or embedments.
- Loose soil, sawdust, and other debris shall be removed from the forms prior to placing concrete.
 All concrete shall be thoroughly consolidated during the placement using a mechanical vibrator.
- 6. All construction joints shall be cleaned and roughened by removing the entire surface and exposing firmly embedded aggregate prior to pouring additional concrete in contact with these surfaces.

REINFORCING STEEL NOTES

- 1. Reinforcing steel shall be deformed bars conforming to A.S.T.M. designation A615, intermediate grade. Foundation steel shall be new ASTM grade 40 (#4 and smaller), grade 60 (#5 and larger). Detailling, fabrication and placing of reinforcing steel shall conform to or equal that set forth in the Guida to Presenting Reinforcing Steel Design Details (ACI—315R—18) for Detailing Reinforced Concrete Structures, and better where required by the drawings. Standard hooks shall comply with recommendates as required by ACI—315R.
- 2. Reinforcing shall be installed continuous for the maximum length possible. Stagger and lap all bar splices, 48 diameters (#6 and smaller) and 60 diameters (#7 and larger) in concrete and 48 diameters in concrete block, or 24°, whichever is greater.
- 3. All dowels, anchor bolts and other inserts shall be well secured in place prior to pouring concrete Studied devices shall be used to hold the reinforcing in its true horizontal and vertical positions. Thes devices shall be sufficiently rigid and numerous to prevent displacement of the reinforcing during the placing of the concrete. All pipes and ducts through concrete shall be sleeved. Verify openings with plumber and electrician.
- If specified, welded wire fabric shall be 6x6, #10x#10. Wire fabric shall be electrically welded steel per ASTM A155, Lap 6" minimum at all edges and tile at three places to reinforcing devels (where occur except locations where slob is independent of foundation. Contractor shall provide support chairs to ensure fabric is located in the center of the slob.
- 5. Clear distance of reinforcement shall be 1-1/2" at exposed well nurfaces, 2" of formed surfaces in contact with earth, and 3" at unformed surfaces in contact with earth. Provide 2" minimum clear distance between adjacent bars.

GENERAL FRAMING NOTES

- No structural member shall be cut or notched unless specifically shown, noted, or approved by tempere. Notch details, if provided, are far general guidance only. The engineer shall be contacted approve locations of proposed notches. Studs in exterior walls and bearing portitions may be cut or notched to a depth not exceeding 25% of stud width. Cutting or notching at studs in non-bearing partitions shall not exceed 40% of the width.
- All stud walls shown on structural drawings shall be framed as follows (U_O_N_)

Interior Walls, Moximum Height:
Up to 14 ft, 2x4 @ 16° o.c.
Up to 20 ft, 2x6 @ 16° o.c.
Up to 13 ft, 2x6 or Dbl. 2x4 @ 16° o.c.
Up to 13 ft, Dbl, 2x6 @ 16° o.c.
Up to 18 ft, Dbl, 2x6 @ 16° o.c.

Interior Non-Bearing/Non-Shear Walls, Maximum Height: Maximum Height: Up to 14 ft. 2x4 0 24 o.c. Up to 20 ft. 2x6 0 24 o.c

- Top plates shall be doubled on all stud walls. Lap 4'-0" minimum at top plate splices, with (10)
 16d nails each side of splice, U.O.N. Splices in upper and lower plates shall be staggered at least 4
- U.O.N. posts in walls may be made with multiple studs of equivalent width and depth. For example 4x4 post can be replace with minimum (3) 2x4 posts, Secure multiple studs with 16d nails at 8" o.c.
- 5. Provide king studs at the ends of all headers or other beams installed in walls. Provide double king studs at all openings greater than 8 ft wide. Adjacent, stocking windows shall be separated by king studs that are continuous from sill to top plate (to prevent rotation). End nail king studs to headers. Oripple studs under headers shall be continuous to sole plate.
- All members in bearing shall be accurately cut and aligned so that full bearing is provided without the use of shims.
- 7. Block all stud walls as required for sheathing and finishes. Balloon frame all walls with sloping ceiling or with raised ceilings.
- Install horizontal members with crown up. Where knots exist near the top or bottom of horiz members, install member with knots up. Cantilevered deck joists shall be carefully notched and tri (if necessary) to provide slope without over-cutting.
- 9 Provide full depth blacking or continuous rim joist at all floor and roof froming supports. Froming members shall have a minimum of 2" bearing at supports. Lapping joists shall have 6" minimum over centered over interior supports

Status — \$10 grade minimum.

Joists end rofters — #2 grade minimum, U.O.N.

Non-Beoring Headers — standard grade minimum

Headers, beams, girders —#1 grade minimum, U.O.N.

Posits: 4x, posits — #2 grade, U.O.N. 6x posts and larger — #1 grade.

- A. All GLB members shall be combination 24F-V8 composed of 1-1/2" laminations, To = 2400 psi, for dry use condition, U.O.N. Each member shall beer specific identification for location and shall be accompanied by a Certificate of Inspection by the inspection agency. Camber shall be provided if specified on plans.
- 12. Manufactured wood beams shall have the following minimum performance specifications. The beams shown below are listed in order of increasing strength. Stronger beams or multiple beams at the bottor of the table of equivalent width and depth may be substituted for weaker beams listed at the top of the table. LSL, LVL, and PSL beams shall match floor framing depth, u.n.o..

	E, ksi	Fb, psi	Fv, psi	Width, in
LSL Rim Joist	1300	1700	310	1.25
LSL Beam as Rim	1300	1700	310	1.75"
LSL Beam	1550	2250	310	3,50 min
LVL Beam	2000	2600	285	Per Plan
DCI or IM 2 DE Boarn	2000	2000	285	Day Olan

- 13. Nailing into narrow edge of manufactured rim joists shall be spaced at 4°o.c. min. Where sil/plywood nailing requires closer nailing, provide multiple rows offset by ½ and staggered. See specific manufacturer recommendations for additional information.
- 14. Structural plywood shall be graded per DOC PST-09 and shall be interior type sheathing C-D grade with exterior give. Equivalent OSB wood structural panel may be used as an alternate to plywood. However, in accordance with the Tile Council of America recommendations, OSB shall not be used below title mortar. All horizontal plywood shall be laid with face grain perpendicular to joists with staggered.

15. All boilted wood connections shall have a washer unless a steel plate is specified. Holes shall be properly aligned. Oversized holes are not allowed. Nuts shall be snug tightened. Both holes shall be nominal diameter of both plus 1/16 inch. Botts shall be 5/8" inch diameter, minimum, Grade A307 or

- 17. All manufactured connection hordware shall be as designated on drawings and installed (with all nail holes filled) in accordance with manufacturer's instructions and applicable ICC—ES approvals.
- 18. Install lag screws in drilled lead holes with a diameter equal to 3/4 of the shank diameter. Lag screws shall not be hammered in. Provide washers under heads bearing on wood. Holes shall be

SHEARWALL NOTES

- Where a shearwall is indicated on plans the shearwall assembly shall run harizontally and continuously the nearest wall opening or end of the wall; the shearwall assembly shall run vertically continuously on the bottom of the nearest sole or bottom plate up to the top of the nearest double top plate (or am); and all plywood panel edges shall be blocked and edge nailed.
- 2. Where holdown posts or study are indicated at the end of a shearwall, the shear plywood shall be edge nailed and the post shall run continuously from the sale plate to the double top plate. Holdowns shall be attached to posts at the ends of shearwalls and shall extend to either froming below or to foundation or shown on plans. If holdowns are specified at existing foundations, use Simpson "SET-XP" type epoxy installed per manufacturer's recommendations (U.O.N.) and requirements on plans,
- 3. See Shearwall Schedule for required shearwall nalling, anchor bolts, sill nails, and other shear transfer
- 4. Shearwall plywood shall not be cut for pipe, ducts, sleeves, etc., U.O.N. or detalled
- 5. Unless otherwise detailed, all Interior shearwalls shall be continuous to the roof or floor plywood in accordance with the typical shear transfer details.
- 5. See Shearwall Schedule for shearwalls that require 3x mudsills and 3x framing at adjoining plywood panel edges. Sill plates top plates and members in the field of individual plywood panels do not typically back adjoining panel edges and thus may be 2x. Panel edges for double sided shearwalls (except at staggered vertical panel joints) typically require 3x members at all edges.

PRESSURE TREATED LUMBER

Testing has shown that over time, the durability and load carrying capacity of hardware installed in pressure treated lumber could deteriorate. The rate of deterioration varies with many variables. Hardware installed within the building envelope (dry conditions) to lumber treated with zinc borate, sodium borate (SBX), or disadium actaborate terohydrate (DOT) has been shown to have a low potential for

-- Nails, bolts, screws, log bolts, and other connectors shall be not dipped golvanized (G90) minimum.
-- Connector hardware (clips, straps, caps, bases, etc.) shall be Simpson ZMAX minimum.

Where pressure treatment chemicals are more corrosive, or where lumber is located in highly corrosive environments or if environment corrosivitiy is unknown, stainless steel hardware shall be used.

Fastner material/finish shall match connector material/finish.

All lumber exposed to moisture shall be pressure treated. Where approved by the architect, lumber exposed to moisture may be redwood, painted, sepled, or otherwise treated to resist deterioration.

DEFERRED SUBMITTALS

Roof truss shop drawings shall be submitted for review and approval by the project engineer prior to abrication of the trusses.

Prior to submittal to the project engineer, the contractor shall review the shop drawings for 1 or to summer to the project engineer, the contractor shall review the shop drawings for 1) impliance with the construction documents, 2) coordination with other trades, 3) constructability, and dimensional occuracy. Review of the shop drawings by the project engineer does not relieve the tractor from responsibility for completing the work in conformance with the project documents.

The contractor is responsible for obtaining Building Department approval of all deferred submittals prior to beginning construction.

NOTE REGARDING STRUCTURAL DRAWINGS

The structural drawings show only the basic structural frame. Refer to architectural, mechanical and electrical drawings for nonstructural items including nonstructural walls, which require special provisions during construction. Only openings requiring special framing are shown on structural plans. See typical details for reinforcing around nominal openings not shown.

PRE-CONSTRUCTION MEETING

Experience has shown that pre-construction meetings with the contractor significantly contribute to the success of the project. Prior to beginning construction the contractor shall coordinate and schedule a pre-construction meeting for all members of the project team. As a minimum, the general contractor, the framer, the foundation subcontractor, and the project engineer shall attend.

SPECIAL INSPECTIONS PER CBC 1705

- In addition to observations by the soils engineer (for projects that include the services of a soils engineer), Building Official, and the project engineer, special inspections by an ICC certified special inspector is required as follows:

- Epoxy anchors installed in concrete, If used. Periodic.

 -- Epoxy anchors installed in concrete, if used. Periodic.

 -- Post tension concrete foundation slob.

 -- Post tension concrete foundation slob.

 -- Post tension concrete foundation slob.

 -- All shearwalls where nail spacing is 4" o.c. or less, except for at detached one or two family wellings not exceeding two stories above grade.

The contractor shall coordinate with the Building Official to ensure special inspection is provided per Building Department requirements. The special inspector shall be employed by the owner and must demonstrate his qualifications to the Architect/Engineer of Record and the Building Official.

STRUCTURAL OBSERVATION OF THE CONSTRUCTION

- Review of the construction by the project engineer is required for most projects that are greater than 2 stories above grade (CBC section 1704.1). For all other projects, structural observation is recommended (but is not required). Where structural observation is provided, the contractor shall phase the project and coordinate with the project consumer to ensure that the following structural elements are observed prior to covering with finishes or other materials:
- Reinforcing steel and hardware embedded in the foundation shall be observed prior to concrete
- Floor framing and shear transfer elements shall be abserved prior to installation of the plywood officer of training and shear transfer elements.
- Shearwalls and framing elements shall be observed prior to installation of finishes and after installation of plumbing, fire uprinkler, electrical, and HVAC elements.

Observation of the construction by the engineer does not relieve the controctor from responsibility to complete the construction in conformance with the project documents and generally accepted standards of practice.

ABBREVIATIONS

HEIGHT INFORMATION INTERIOR INVERTED KICKER

A.B. ABV ADD'L ALT. ARCH BLK. BLKG	ANCHOR BOLT ABOVE ADDITIONAL ALTERNATE ARCHITECT OR ARCHITECTURAL BLOCK BLOCKING	L,L. LBS. LTWT., LW. MAX. MFR. MIN. (N)	LIVE LOAD POUND(S) LIGHTWEIGHT MAXIMUM MANUFACTURER MINIMUM NEW
BLW.	BELOW	N.T.S.	NOT TO SCALE
BM.	BEAM	O.C.	ON CENTER
BOTT.	BOTTOM	OPT. P.S.F.	OPTION / OPTIONAL POUNDS PER SQUARE FOOT
BRG	BEARING CONCRETE MASONRY UNIT(S)	P.T.	PRESSURE TREATED
C.M.U. CALCS	CALCULATIONS	PERF	PERFORATED
CLG / C.J.	CEILING / CEILING JOIST	PERP.	PERPENDICULAR
CLR.	CLEARANCE	PLYWD., PLY	PLYWOOD
CANT.	CANTILEVERED	REINF.	REINFORCING
CONC,	CONCRETE	REQ'D.	REQUIRED
CONT.	CONTINUE / CONTINUOUS	S.A.D.	SEE ARCHITECTURAL DRAWINGS
D.F.	DOUGLAS FIR	S.L.D.	SEE LANDSCAPE DRAWINGS SEE ELECTRICAL DRAWINGS
D.L.	DEAD LOAD	S.E.D. S.M.D	SEE MECHANICAL DRAWINGS
DBL. DIA.	DOUBLE	SW.	STRONGWALL
DIA.	DIAMETER DIMENSION	SSW.	STEEL STRONGWALL
(E)	EXISTING	T /P	TOP PLATE
E.N.	EDGE NAIL	TYP	TYPICAL
EA., E.W.	EACH / EACH WAY	UNO	UNLESS NOTED OTHERWISE
EQ.	EQUAL		VERTICAL
EXT.	EXTERIOR	V.I.F.	VERIFY IN FIELD
F.F.	FINISH FLOOR	w/	WITH WATERPROOF
FLR.	FLOOR	WP.	WATERPROOF
FND.	FOUNDATION	LECEND	
FP. FTG.	FIREPLACE	LEGEND	
GA.	FOOTING GAUGE		
GALV	GALVANIZED	muummaa	INTERIOR BEARING WALL BALLOON FRAMED WALL
GLU-LAM, GLB	CILIE LAWINATED DEAM	30000000000000	BEAM / HEADER / RIM
G.T.	GIRDER TRUSS		LEDGER / HEADER / RIM
GYP BD.	GYPSUM BOARD		BLOCKING
HD.	HOLDOWN		JOIST
HDR. HGR.	HEADER		FLOOR EDGE / SLAB EDGE
HORIZ.	HANGER HORIZONTAL		MOMENT TRANSFERRING
HT.	HEIGHT		CONNECTION
INFO.	INFORMATION		
INT.	INTERIOR		
INV.	INVERTED		
K	KICKER		



lnc. JR Structural Engineering, I Δ



Suite K rnia 94596 com



TABLE NO. 2304.10.1 NAILING SCHEDULE (PARTIAL LIST)

CONNE	CTION	NAILING
1,	BLOCKING BETWEEN JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE, TOENAIL, EACH END	(3) 80
2.	CEILING JOISTS TO PLATE, TOENAIL	(3) 8D
3.	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16D
4.	CEILING JOISTS TO PARALLEL RAFTERS. FACE NAIL.	(3) 16D
6.	RAFTER OR ROOF TRUSS TO PLATE, TOENAIL	(3) 10D
8.	DOUBLE STUDS, FACE NAIL	16D AT 24" O.C.
9.	BUILT-UP CORNER STUDS	16D AT 16" O.C.
11.	CONTINUOUS HEADER TO STUD, TOENAIL.	(4) 8D
12.	DOUBLED TOP PLATES, FACE NAIL	16D AT 16" O.C.
14.	BOTTOM PLATE TO JOIST OR BLOCKING	16D AT 16" O.C.
16.	TOP PLATE AND BOTTOM PLATE TO STUD, END NAIL	(2) 16D
	(AT 3x BOTTOM PLATE)	(2) 20D
	STUD TO BOTTOM PLATE, ALTERNATE	(4) 8D TOENAIL
18.	TOP PLATES, LAPS AND INTERSECTIONS,	
	FACE NAIL	(2) 16D
22.	JOIST TO SILL, TOP PLATE, OR GIRDER, TOENAIL	(3) 8D
23.	RIM JOIST OR BLOCKING TO TOP PLATE, TOENAIL	BD AT 6" O.C.

STRUCTURAL DESIGN INFORMATION

BASIS OF STRUCTURAL DESIGN. 2016 CALIFORNIA BUILDING CODE

DESIGN CRITERIA FOR PROJECT SOILS

Soils Engineer — Phone Number — Report Number and Date — RGH Consultants (707) 544-1072 #3047 05 08 1 Dated 10/18/16

Post Tensioned Slab on Grade Foundation System -Em=8.5 ft., Ym=0.8 in. Em=4.4 ft., Ym=0.7 in. 2000 psf

GRAVITY LOAD SCHEDULE LATERAL SYSTEM DESIGN DATA Live Loads 18 psf 18 psf 10 psf 40 psf Risk Category, Importance Factor - II, 1.0 Basic Wind Speed (3-Sec. Gust) - 110mph Bosic wind Speed (3-5et doss)
Wind Exposure Cotegory - C
Lotitude/Longitude -38.437\/122.69\W
Seismic Design Foctors
S=2.451, S1=1.018, Sos=1.634, Spi=1.018, 18 psf 6 psf 12 psf 10,7 psf 8 psf Roof+Ceiling Cellings Floors Ext. Walls R=6.5, C:=0.251
Site Class=0, Design Category=E
Lateral System — Wood-Framed Shearwalls
Analysis Procedure — Equivalent Lateral Force
Project Design Bass Shear — 0.176W Project Design Roof Material: Composition Shingles

GENERAL NOTES December 30, 2019 CAD FILE: SD1.DWG

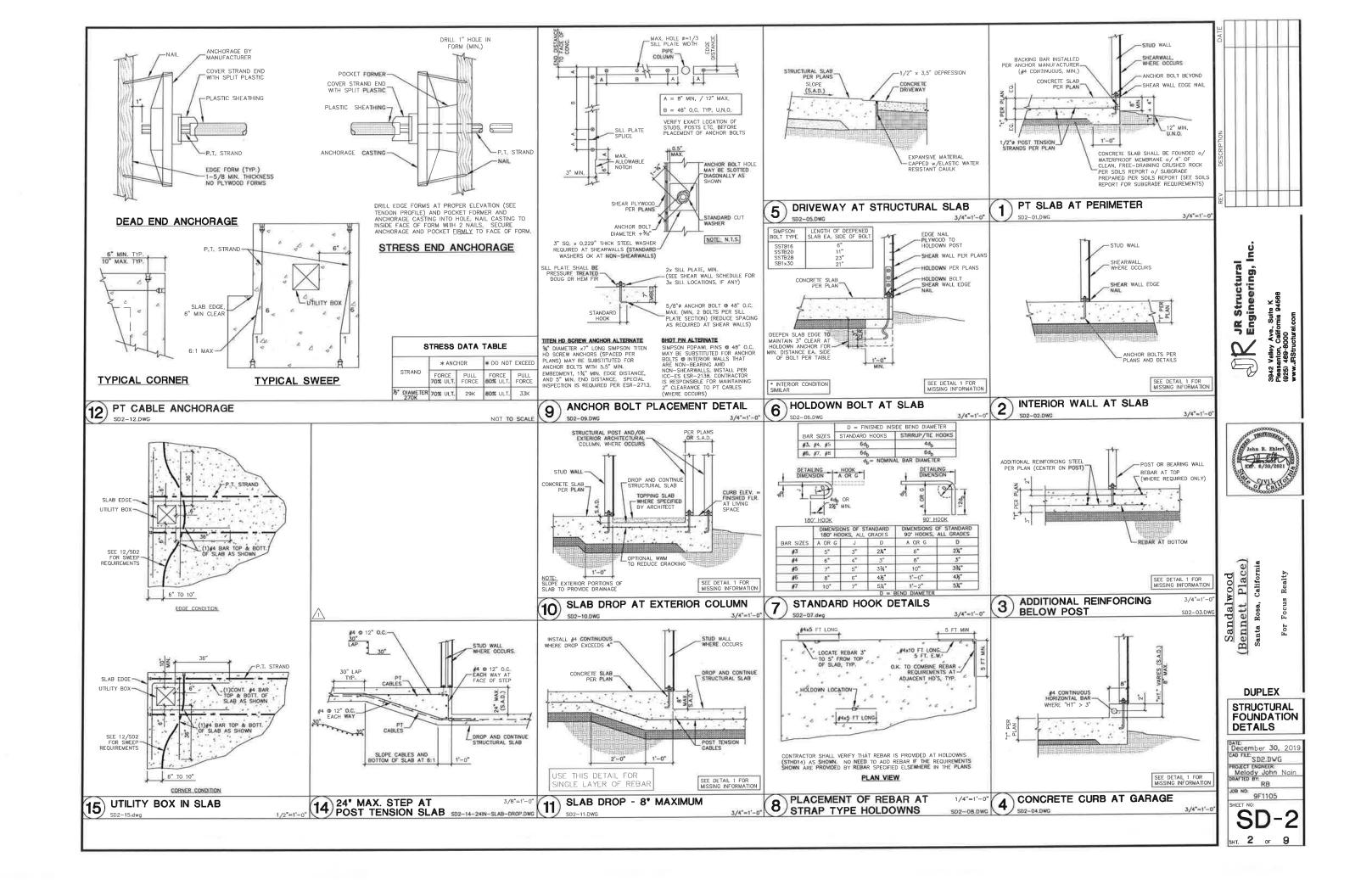
DUPLEX

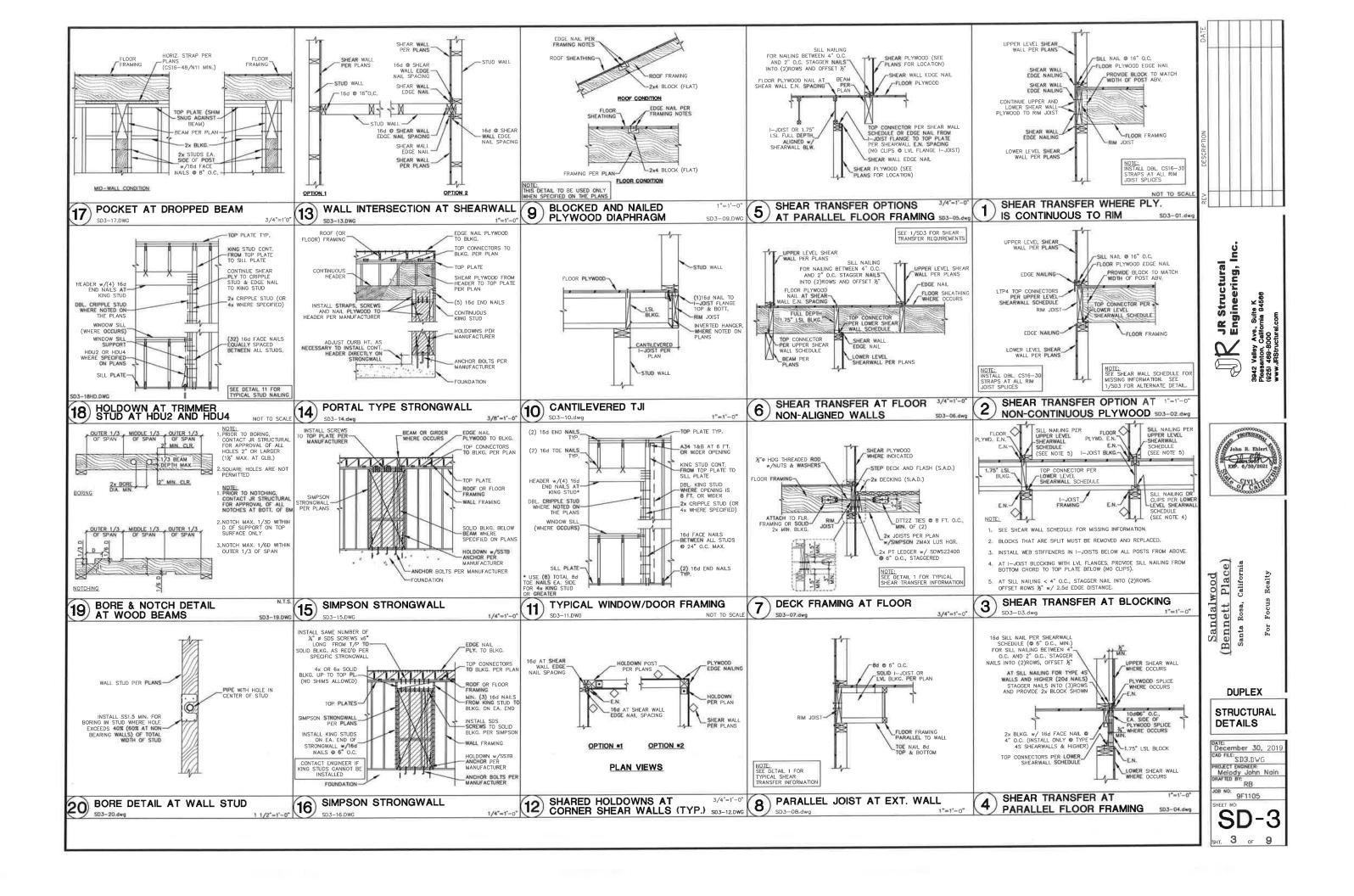
Sandalwood (Bennett Place)

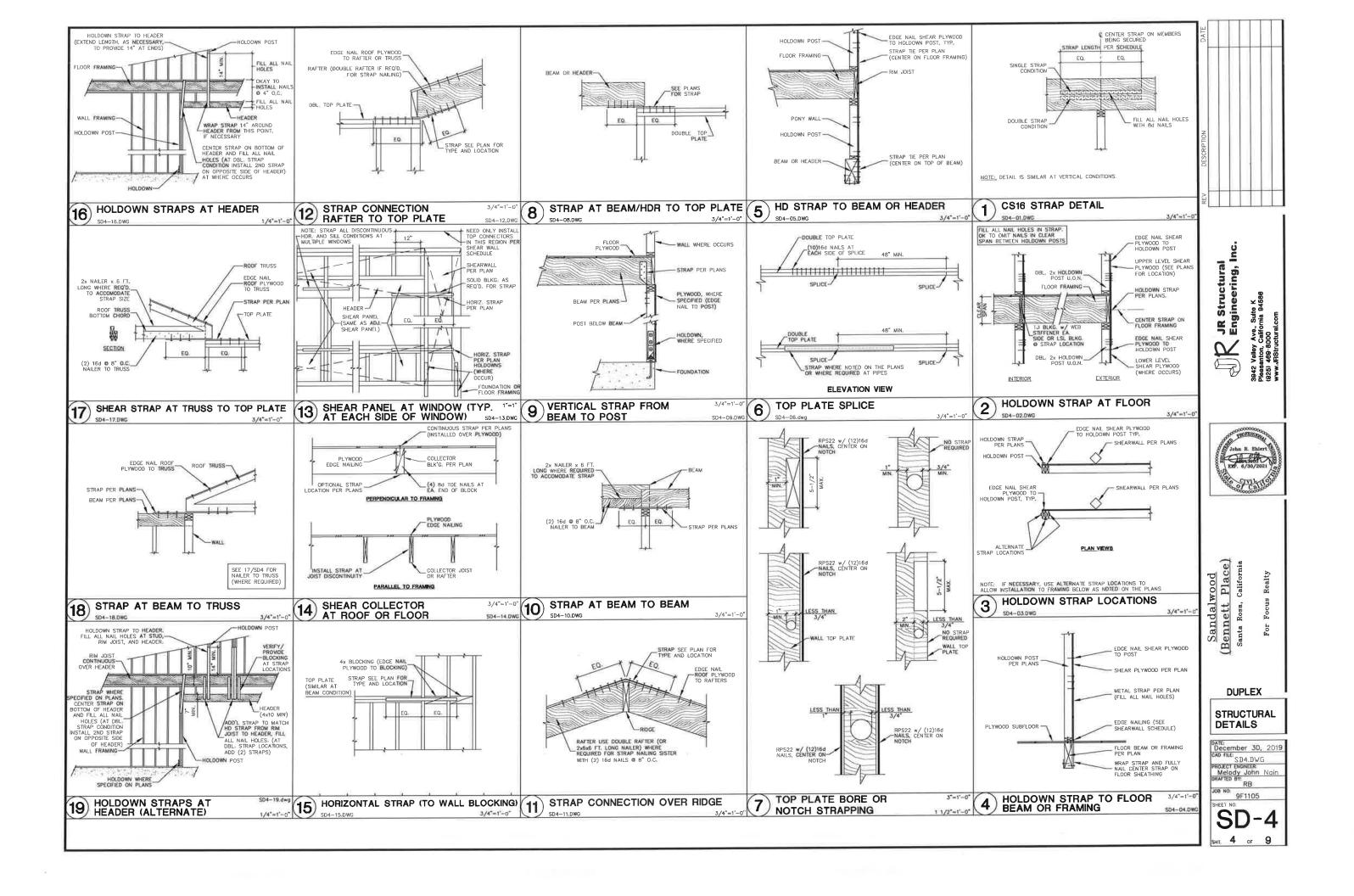
Realty

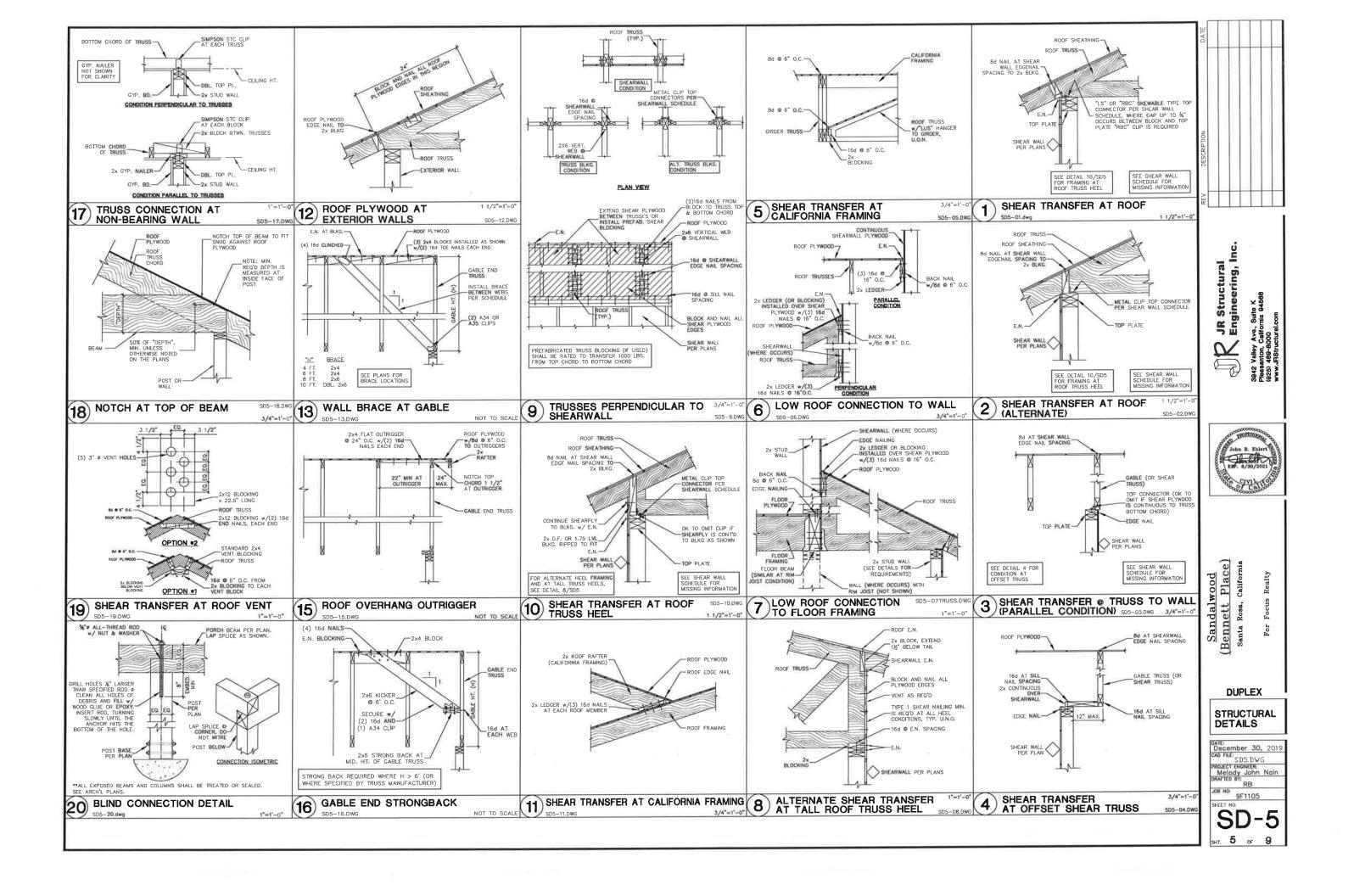
PROJECT ENGINEER: Melody John Nain JOB NO: RB 9F1105 SHEET NO:

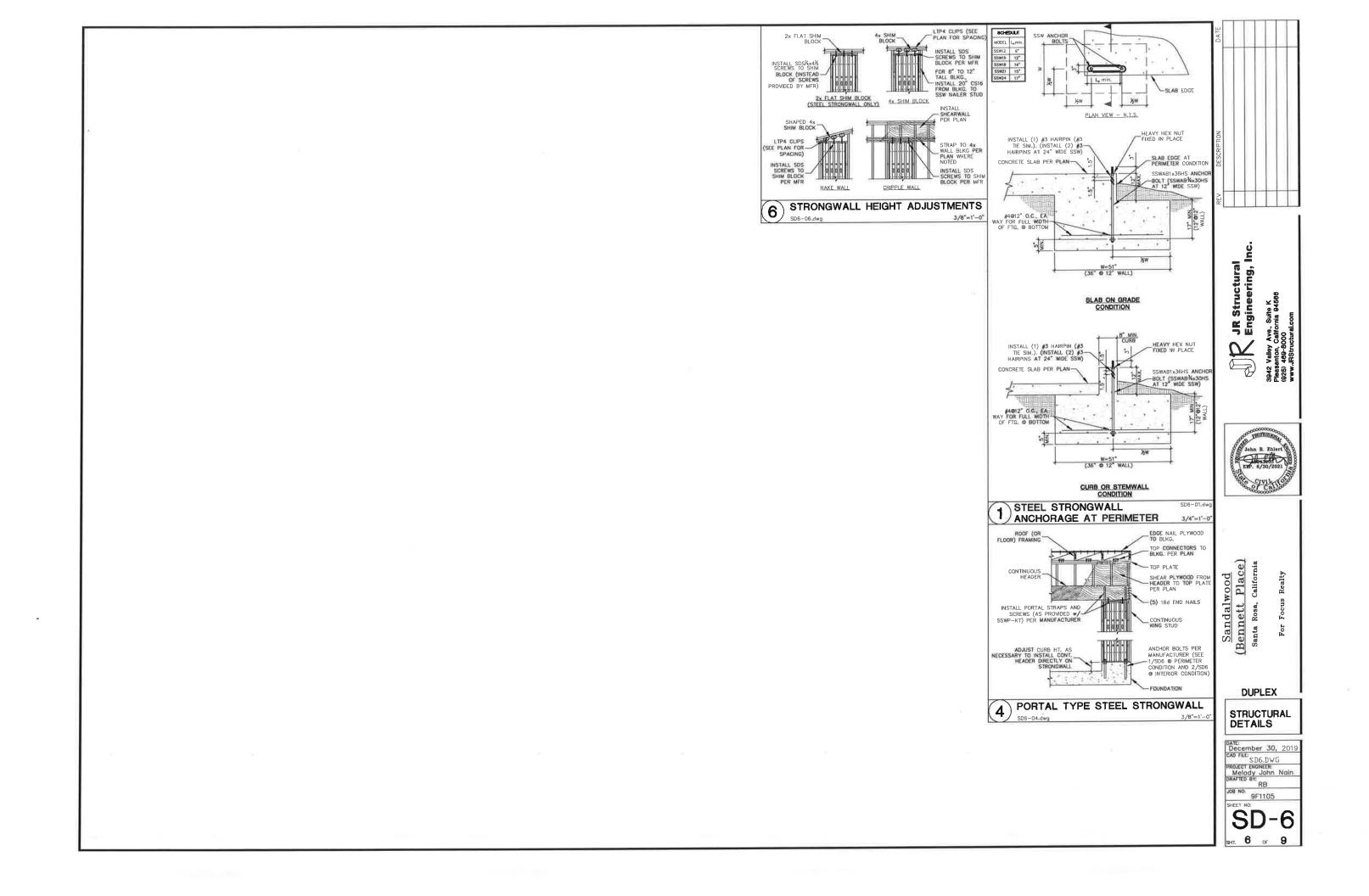
SD-1











POST TENSION SLAB FOUNDATION **NOTES**

The foundation shall consist of a post tension concrete slab on grade with thickness and P_aT_a cable spacing per the "Foundation Schedule",

Foundation reinforcing bars shall be new ASTM grade 40 (#4 and smaller) grade 60 (#5 and larger) with all laps 48 diameters (#6 and smaller) and 60 diameters (#7 and larger) min.

Install foundation on undisturbed soil or compacted fill_

Use the anchors listed below at all holdowns, u,o,n, If necessary, install threaded rods and Simpson CNW couplers to extend SSTB anchors. At holdown anchors that require embedment greater than foundation depth, see details to deepen foundation at anchor bolt,

HDU2: Simpson SSTB16 with dbl, 2x post min,
HDU4: Simpson SSTB20 with dbl, 2x post min,
HDU4: Simpson SSTB20 with dbl, 2x post min,
HDU6: Simpson SSTB20 with dbl, 2x post min,
Simpson Wodod Strongwall:
Simpson WSW-AB per plans,
Simpson Stell Strongwall:
Simpson SSWAB24HS (exterior condition)
Simpson SSWAB24HS (interior condition)
HDU14: Simpson SB1x30 with 4x6 post at 2x4 wall or 6x6 post at 2x6 wall

Step foundation as required for loor elevation condes and compliance details. The contractor shall grade the site to provide proper surface drainage away from the foundation at all locations, Roof gutter downspouts shall not discharge near the foundation.

All foundation elements shall comply with the requirements of CBC Chapter

For projects that include the services of a soils engineer: Refer to the project soils report for additional foundation and site construction requirements, The responsible soils engineer shall inspect all slab and foundation subgrades prior to placing concrete. See soils report for specific inspection requirements,

All foundation plates and mudsills shall be pressure treated Douglas Fir or Hern Fir marked or branded by an approved agency. See shearwall schedule for shearwall locations that require 3x (minimum) mudsills. Adjust foundation on-hor lengths as necessary for 3x mudsills. Foundation plates and mudsills shall be belted to the foundation with not less than 5/8" diameter steel bolts, 3" square x 0.229" linkic plate washers are required at shearwalls (standard washers ok elsewhere). Ermbed anchor botts 7" into concrete foundation will or 12" into grouted masonry, and space not more than 82" appart uples otherwise poled on the Shearwall Schedule. more than 48° aport, unless otherwise noted on the Shearwall Schedule. There shall be a minimum of two botts per board with one bott located within 12° of each end. See details for additional information,

See General Notes for additional requirements. All detail callouts shall be considered typical. Contractor shall review the detail sheets for details not specifically referenced.

PT cable strands at the "stressing ends" shall extend 15" minimum beyond edge of slob for stressing. P.T. tendon sheathing shall be protected from damage. All strands shall be supported at the proper slob depth, Supports shall not be spaced more than 4-0° o.c., in both directions. Secure cable "dead ends" and "stressing ends" to forms prior placing cable supports.

Tendons shall not be stressed until concrete has reached a minimum compressive strength of 2,000 psi and shall be stressed within 30 days, PT slabs shall not be loaded by roof materials prior to stressing of all

Special inspection (by an ICC approved inspector) of PT tendon and reinforcing bar placement is required prior to placing concrete. Special inspection of cable elongation is also required. Stressing tolerances are +7%, minus 7% u,o.m. Cable ends shall not be removed prior to approval of all P_*T_* cable elongations by the special inspector.

FOUNDATION SCHEDULE P.T. SLAB

The foundation shall consist of P.T. slab with cable spacing and thickness as noted on the plans. P_aT_a slab edges shall be per 1/SD2.

Foundation concrete strength shall be per P_{*}T. Slob Info box on foundation plan. Special inspection is required per the CBC.

All concrete shall be poured monolithically as shown on drawings a otherwise noted and thoroughly mechanically vibrated. Consolidate concrete at anchorages is critical.

Londscape slabs shall be independent of the building foundation. The contractor shall install expansive joint material between all slabs and the foundation.

The project architect is responsible for specifying dimensions to all project elements. The dimensions shown on the foundation plans shall not be used for construction. The foundation shall be constructed using the dimensions shown on the architectural plans.

OBSERVATION OF CONSTRUCTION BY THE SOILS ENGINEER

The contractor shall coordinate with the Solls Engineer to ensure observation of the construction as recommended in the soils report. Prior to requesting a foundation inspection by the Building Department, the Soils Engineer shall advise the Building Official in writing that the:

- Building pad was prepared in general conformance with the soils report recommendations.
- 2. Utility trenches have been properly backfilled and compacted, and

	PLAN NOTE KEY	SHEARWALL SCHEDULE						1
NOTE ID	DESCRIPTION	SHEAR WALL OESIGNATION	NO.1	NO.2	NO.3	NO.4	NO.4-S]
(I)	1 THE SHEARMALL HAS BEEN ADOED TO IMPROVE STRUCTURE PERFORMANCE ONLY. THE SHEARMALL DOES NOT WEET 2016 CBC REQUIREMENTS AND THEREFORE WAS NOT USED IN STRUCTURAL DESIGN.	PLYWOOD OR OSB WALL SHEATHING	3/8"	3/0"	3/8"	3/8"	3/8" STR 1	L
U		EDGE NAILING	8d 0 6	8d @ 4*	8d 0 3"	Bd 0 2*	8d 0 2"	1
	INSTALL HOLDOWNS AND ANCHOR BOLTS AT STRONGWALLS PER MANUFACTURER CONTRACTOR	3x MEMBERS REO'D	NO	NO	YES	YES	YES	ŀ
2	SHALL USE SMIPSON ANCHOR TEMPLATE TO PLACE ALL ANCHORS AT STRONGWALLS.	FIELD NAILING:	8d 0 12"	8d 0 12"	Bd O 12"	8d 0 12"	8d 0 12"	r
(3)	ADJUST FOUNDATION ELEVATION AT PORTAL TYPE STRONGWALLS TO PROVIDE DIRECT BEARING BETWEEN CONTINUIDUS HEADEN AND TOP OF STRONGWALL.	SILL PLATE CONNECTION:	16d © 6"	16d @ 4"	16d 9 3"	16d 0 2"	16d @ 2*	Ì
-	BETWEEN CONTINUOUS MEADER AND TOP OF STRONGWALL.	TOP CONNECTION:						T
(4)	NOT USED	(CHOOSE ONE)				8*	7*	ŀ
0	(5) OK TO USE STHD14 STRAP TYPE HOLDOWN AT THIS LOCATION WITH 24 16-4 NAILS, NAIL FROM BOTTOM UP	RBC	20*	13"	10"	2.0	1.00	Г
(5)		A35, LTP5, LS50, OR 170	20"	14"	10"	8*	7.	L
	FOR SHEARWALL HEIGHT TO WIDTH RATIOS GREATER THAN 2:1 BUT NOT EXCEEDING 3.5:1, THIS	LS70 OR L90	24"	18"	12"	10"	9*	L
6	WALL HAS BEEN CHECKED FOR REDUCED SHEAR CAPACITY PER AWC SDPWS SECTION 4.3.3.4.1	LS90 OR LTP4	30"	20"	16"	12"	10*	Г
(7)	INSTALL DOUBLE TRIMMER STUDS BELOW EACH END OF THIS HEADER	B/8" MUDSILL A.B. WITH 2x MUDSILL:	Ø 46"	0 48"	e 32"	9 24	MUDSILL	1
	LS. RM = 1 1/4 x (MATCH TA DEPTH), 1.32 (1.75° RECOMMENDED)		© 48"	O 48"	Ø 32	0 32	@ 28°	Н
⟨₿⟩	LSI, RIM BOAND BY TRUSIOSTI. LSI. = 1 3/4 ((MATCH TJ) DEPTH), 1.55E LSI, REAM BY TRUSIOSTI. OK TO USE EQUIVALENT SIZE ML.	WITH 3x MUDSILL:						н
(a)	US. BEAM BY TRUSJOST. OK TO USE EQUIVALENT SIZE M. ME = 1 3/4 x (MATCH TJ. DEPTH), 1.9E LW. MICHOLLAM HEAM BY TRUSJOST.	EPOXY / TITEN HD 7,8	0 40°	9 30"	9 20"	9 16"	0 14"	ŧ.
	The proof of the control of the cont	ALLOWABLE	260	350	490	640	730	t
(9)	SEE DETAIL 17/SD3 FOR BEAM POCKET ALTERNATE TO COLUMN CAP, WHERE NOTED ONLY	SHEAR (PLF)	200	000	430	010	750	1
(10)	SECURE INTERIOR WALL TO ROOF TRUSS BOTTOM CHORD PER DETAIL 17/SD5	NOTES:						Ĭ
(II)	BRACE GABLE WALL WITH 2x KICKER PER DETAIL 13/SD5	1. PLYWOOD NAILS SHALL BE.	COMMON OR GAL	ALCS.	LV. BOX NAILS S			ı

UNIT A

POST BELOW POST ABOVE (MATCH SIZE AND LOCATION)
PROVICE BLOCKING IN FLOOR TO MATCH POST WIDTH.

CONTINUE SHEAR PLYWOOD ON TOP AND BOTTOM OF WINDOW PER DETAIL 13/SD4

METALL HANGERS DIRECTLY TO FLOOR BEAM/RIM PER 7/SD5, TYP. U.N.D. @ LOW ROOF

INSTALL FLOOR BLOCKING PER DETAIL B/SDS.

-21.00" A=1 %* =21,00' A=1 %'

-21.00° △-1 %*

=21.00° △=1.56° =21.00' \(=1.5\''\)

L=21.00" A=1 %" =21.00' A=1 %"

-21.00° A=1 %

=21.00' \(\triangle = 1 \frac{5}{4}''\)

=21.00' \=1 %"

=21.00' A=1 %

=21 00' \(= 1 \) \(\) \(= 1 \)

=79.50' \(\triangle = 6 \) \(\frac{1}{4}\)"

-8350' A=6 8"

=83.50′ △=6 ½°

=83 50' △=6 ⅓"

-83 50' A=6 %"

=85.00' \(=6 \%''

-H5.00° △ ~ 6 %°

=85.00' \(\sigma = 6 \) \(\frac{1}{2} \)

=85,00° △-6 %°

-85.00' A=5 %'

=45 00' \(\triangle = 3 \) \(\triangle ''\)

-43.00° \(\Delta = 3.\pi''

=43.00' \(\sigma = 3 \frac{\frac{1}{2}}{2} \)

=14.00° A=1 K

=14.00' \(\times = 1 \) \(\tilde{\ti

AND OSE SHALL BE TIPE COX GRADE OR BETTER (EXCEPT WHERE STRUCTURAL 1 GRADE IS NOTED).
AT REQUIRE 3. FRAMING SHALL LINE 3. (MIN.) AT ACCOUNT PANEL XXIVE AND NAILING SHALL BE ANDIRON BOXTS MUST BE INSTALLED WITH 3" SQUARE # 0.220" PLATE WASHERS FOR 2016 CBC
CONSTITUTIONS WHERE REEDED TO AVOID WOOD SPUTTING. USE DRILL BIT SIZE = 0.75 MAL (OR

EPOXY ANCHORS.

2X SILL PLATE REQUIRED, IF 3X SILL PROVIDED, USE 20d NAILS.

STR 1 - STRUCTURAL I GRADE PLYMOSO OR OSR

OVER TYPE 4

MASA MUDSILL ANCHORS SIMPSON MASA MUDSILL ANCHORS MAY BE USED AS AN ALTERNATE TO ANCHOR BOLTS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

SHEARWALL TYPE	MASA ANCHORS
ION-STRUCTURAL WALLS	48" O.C.
YPE 1	39" O.C.
YPE 2	29" O.C.
YPE 3	25" O.C. w/3x MUDSILL
IPE 3	20" O.C. w/2x MUDSILL
WDE 4	19" O.C. w/3x MUDSILL

ANCHORS MAY BE INSTALLED WITH ONE LEG VERTICAL TO A WALL STUD, AT 3x MUDSILLS BOTH MASA LEGS MUST BE BENT OVER THE MUDSILL

P.T. SLAB INFORMATION

P.T. SLAB SHALL BE 10" THICK WITH P.T. CABLES AT 18" O.C. MAXIMUM, EACH WAY,

CONCRETE COMPRESSIVE STRENGTH SHALL BE (3000 psi, 3500 psi, 4000 psi, 4500 psi)
MINIMUM. STRUCTURAL DESIGN IS BASED ON
XXXX psi,

CEMENT SHALL BE TYPE I OR II WITH A WATER/CEMENT RATIO OF (0.45, 0.50, 0.55).

CEMENT SHALL BE TYPE V WITH POZZOLAN

SEE NOTES AND DETAILS FOR ADD'L INFO, LEGEND:

UNIT B

JR Structural Engineering, Inc. 3942 Valley Ave., Suite K Pleasanton, California 94586 (925) 469-8000



Sandalwood (Bennett Place)

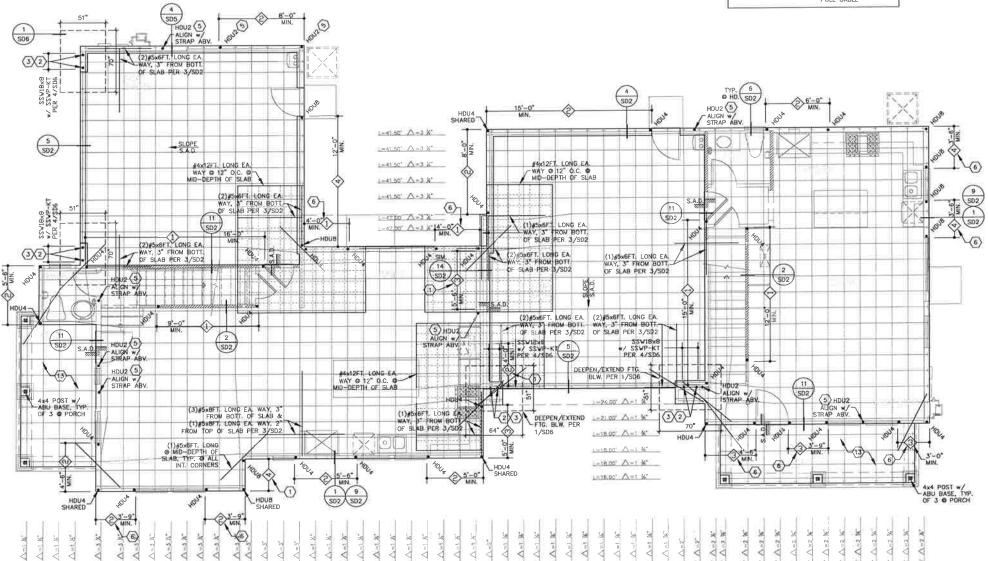
DUPLEX

December 30, 2019 S4.5.1—Found.dwg Melody John Noin

RB JOB NO: 9F1105

SHEET NO:

\$4.5.1



FOUNDATION AND LOWER LEVEL SHEARWALL PLAN

Scale 1/4" - 1'-0"

DUPLEX HOME - UNIT A & B

FLOOR FRAMING NOTES: **OPEN WEB TRUSSES**

Floor shall be framed with open-web trusses per the "Floor Framing Schedule". Install web stiffeners, bearing blocks, no-notch bearing clips, blocking between trusses and/or metal cross bracing as required by the manufacturer. Use Simpson's "MIT" type pist hangers un,o, (ok to use "ITS" type joist hangers if all nail holes are filled).

Install double 2x posts, minimum below all beams and girders, Contractor shall verify framing layout to ensure continuous and solid blocking under all concentrated loads,

Floor sheathing shall be nailed with 10d nails © 5" o.c. edges; © 12" o.c. field, u.o.n., Floor sheathing shall be glued to all framing members. Subfloor screws may be substituted for 10d nails to improve floor sheathing performance. Use Simpson WSNTL Subfloor Screw sized to provide 1.25 inches minimum embedment into framing. Plywood sheels located at floor edges or changes in framing shall be at least 24 inches wide or shall be edge blocked and nailed. Edge nail floor plywood to all floor callectors (inists with parizontal strons) floor collectors (joists with horizontal straps).

Use (3) 16d nails at 16" a.c. to nail double members together and 3/4" M.B. @ 16" o.c. to bolt 3 or more members together u.o.n.

Full depth blacking shall be provided between all framing members at their supports. Where ceiling finishes are not installed directly to floor framing the contractor shall install blacking located at mid-span of members that span greater than 18 ft. Full depth LSL rim joist or blocking shall be used below all beam, header, and holdown posts. Provide TJG or LSL blacking between floor trusses at all interior bearing walls. LSL blocking must be used at stacked interior bearing walls. Provide 1,25° width minimum LSL rim joists at exterior walls supporting floor framing.

Install CS16-30 straps at top plate slope changes and other discontinuous top plate conditions.

Manufactured wood beams shall be by Trus Joist with minimum performance specifications per the General Framing Notes on SDI. All Trus Joist products shall be installed in accordance with the manufacturer's recommendations, Where LSL is specified, provide TimberStrand LSL beams. Where LVL is specified, provide Microllam LVL beams. Where PSL is specified, provide Parallam PSL beams. Beam depths shall match floor framing depth, u.o.n.

See general notes for additional requirements. See Roof Plan for notes related to roof framing (if any) shown on this sheet. All detail collouts shall be considered typical. The controctor shall review the detail sheets for details not specifically referenced.

FLOOR FRAMING SCHEDULE - TRUSSES

Floors shall be framed with 14" deep open web floor trusses installed ol 16" o.c., maximum, typ., u.o.n., Floor truss layouts shall be submitted to engineer for review and approval prior to fabrication of the floor trusses.

All non-truss floor framing shall be manufactured by Trus Joist. Alternate All non-truss lioor framing shall be manulactured by Irus Jost. Alternate floor framing systems or manufacturers shall not be provided unless specifically authorized by the engineer and the building owner. If alternate floor framing systems are authorized, the contractor shall forward complete shop drawings for review and approval. Shop drawings shall include supporting calculations for all framing members, framing details and specifications on full size plans, and complete product catalogs.

Minimum window and door header size shall be 4x10 at 2x4 framed walls and 6x10 at 2x6 framed walls, typ u.o.n.

Floors shall be sheathed with $3/4^{\prime\prime}$ 48/24 CDX, T&G plywood or equivalent OSB.

Top connectors shall be installed at all exterior wall top plotes at 6 ft, o.c. min., u.n.o.

	S	TRAP	SCHEDUL	.E
BTRAP	ALTERNATE	GOOD FOR	MST48 /N1	DR: CS16-48
CS16-48	MSTI48	1,705	STRAP	I I
DBLC\$16-48	MST48	3,410	NOTE REFE	

0000	01-10	me.re	-,		TO MOTE WE	ETERENCE -
CS16-	-30	MSTAJD	1,705	_	STRAP TY	
DBLC	S16-30	MST37	3,410			
NOTE		LOC	CATION		SD4 DET. NO.	REMARK\$
N1	VERTICA	L, HD POST TO	O HD POST		2	HD = HOLDOWN
N2	VERTICA	L. HD POST T	O RIM JOIST		4 SIM-	
N3	VERTICA	L, HD POST T	O WALL POST BELOW		2 SIM	E.N. PLYWOOD TO WALL POST
N4			O HEADER STRAP SH AROUND HEADER	IALL	5, 16, 19	EXTEND STRAP & WRAP ON HDR
N5	VERTICA	L, HD POST TO	D FLOOR BEAM (OR I	J/FT)	4	WRAP STRAP ON FLOOR BEAM
N6	VERTICA	L, JOIST OR B	EAM TO HO POST		9	
N7	VERTICA	L HEADER TO	HOLDOWN POST		16	CENTER STRAP ON HEADER
NB	NOT USE	ED				
N9	HORIZON	TAL BEAM TO	FLOOR BLOCKING			LAP 15" ON BEAM
N10	HORIZON	ITAL TOP & E	OTTOM OF WINDOW		13	
NII	HORIZON	ITAL T/P TO	T/ P		6, 7	T/ P = TOP PLATE
N12	HORIZON	ITAL T/P TO	ROOF TRUSS		17	
N13	HORIZON	ITAL, T/P TO	FJ (OR FT)		8	FJ - FLN JOST, FT - FLR TRUSS
N14	HORIZON	ITAL, T/ P TO	WALL BLOCKING		15	LAP 15" ONTO TOP PLATE
N15	HORIZON	ITAL, T/P TO	BEAM		8	
NIS	HORIZON	TAL T/P TO	DECK JOIST		8	
NF7	HORIZON	ITAL, BEAM TO	WASB (10	
N18	HORIZON	TAL BEAM TO	ROOF TRUSS		18	
N19	HORIZON	ITAL BEAM TO	FJ (OR FT)		10	
N20	HORIZON	ITAL BEAM TO	DECK JOIST		10	
N21	HORIZON	ITAL, ROOF TR	USS TO ROOF TRUSS			
N22	HORIZON	ITAL, FJ TO FJ	(OR FT TO FT)		10	
N23	HORIZON	TAL, T/P TO I	ROOF (OR FLOOR) BL	KG		LAP 15" DNTO TOP PLATE

JUMBA STRAPS SHALL BE BY SIMPSON STRONG TIE: SEE DETAIL 1/SD4 FOR ADDITIONAL INFORMATION FILL ALL NAUL NOLES WITH NAILS PER SIMPSON CATALOG (USE 88 NAILS AT CS16 TYPE STRAPS) IF INCCESSARY, EXTEND CS16 STRAPS TO LAP 1/2 OF THE SPECIFIED STRAP LENGTH ON EACH

EMBER.
IF NECESSARY, EXTEND STRAP LENGTHS AND SPACE THE REQUIRED NAILS TO AVOID WOOD SPLITTING.
THE CONTRACTOR SHALL REVIEW THE PLANS FOR STRAPS THAT REQUIRE INSTALLATION PRIOR TO
LACEMENT OF FRANNO (LE. STRAPS N12, N13, ETC.).
STRAPS MAY BE OMITTED AT LOCATIONS WHERE CONNECTED MEMBERS ARE INSTALLED CONTINUOUS.

	PLAN NOTE KEY	SHI	EARW	ALL S	CHEDI	ULE	
NOTE ID		SHEAR WALL O	NO.1	NO.2	NO.3	NO.4	NO.4-S
(1)	THIS SHEARWALL HAS BEEN ADDED TO IMPROVE STRUCTURE PERFORMANCE ONLY. THE SHEARWALL DOES NOT MEET 2016 CBC REQUIREMENTS AND THEREFORE WAS NOT USED IN	PLYWOOD OR OSB WALL SHEATHING	3/8"	3/8"	3/8"	3/8"	3/8" STR
	STRUCTURAL DESIGN	EDGE NAUING	8d 0 6*	8d @ 4*	84 0 3*	8d 0 2*	8d 0 2*
_	INSTALL HOLDOWNS AND ANCHOR BOLTS AT STRONGWALLS PER MANUFACTURER, CONTRACTOR	3. MEMBERS REO'D	NO	NO	YES	YES	YES
2	SHALL USE SIMPSON ANCHOR TEMPLATE TO PLACE ALL ANCHORS AT STRONGWALLS	FIELD NAILING:	8d 0 12"	Bd @ 12"	8d 0 12"	86 0 12	5d 0 12*
(3)	ADJUST FOUNDATION ELEVATION AT PORTAL TYPE STRONGWALLS TO PROVIDE DIRECT BEARING RETWEEN CONTINUOUS HEADER AND TOP OF STRONGWALL	SILL PLATE CONNECTION:	16d @ 6"	16d 9 4"	16d © 3"	15d © 2"	16d © 2"
(1)	NOT USED	TOP CONNECTION: (CHOOSE ONE)					
(5)	OK TO USE STHOLA STRAP TYPE HOLDOWN AT THIS LOCATION WITH 24 16-16 MAILS, MAIL FROM BOTTOM UP	RBC A35, LTP5, LS50, OR L70	20"	13" 14" 18"	10" 10" 12"	8" 8"	7° 7° 9°
6	FOR SHEARWALL HEIGHT TO WIDTH RATIOS GREATER THAN 2:1 BUT NOT EXCEEDING 3,5:1, THIS WALL HAS BEEN CHECKED FOR REDUCED SHEAR CAPACITY PER AWC SOPWS SECTION 4.3.3.4.1	LS70 OR L90 LS90 OR LTP4	24" 30"	20"	16"	12"	10"
(7)	INSTALL DOUBLE TRIMMER STUDS BELOW EACH END OF THIS HEADER,	5/6" MUDSILL A.B. WITH 2x MUDSILL:	0 48"	D 48"	o 32°	@ 24"	USE 3x MUDSILL
(B)	ISI, RIM = 1.74 × (MATCH TU DEPTH), 1.3E (1.75' RECOMMENDED) SI, RIM BOADD BY TRUSSINGS, LSL = 1.32 × (MATCH TA BIFPIN), 1.5SE LSL BEAM BY TRUSSINGST. ON TO USE FOUNMENT SIZE M. LL = 1.374 × (MATCH TU DEPTH), 19E LV. MICROLLAM BEAM BY TRUSJOIST,	WITH 3x MUDSILL: EPOXY / TITEN HD ^{7,8}	0 48" 0 40"	© 48" © 30"	© 42" © 20"	© 32" © 16"	© 28"
(e)	SEE DETAIL 17/SD3 FOR BEAM POCKET ALTERNATE TO COLUMN CAP, WHERE NOTED ONLY.	ALLOWABLE SHEAR (PLF)	260	350	490	640	730
(10)	SECURE INTERIOR WALL TO ROOF TRUSS BOTTOM CHORD PER DETAIL 17/SD5,	NOTES:					
(1)	BRACE GABLE WALL WITH 2x KICKER PER DETAIL 13/SD5	1 PLYWOOD NAILS SHALL BE TUHBLED SILL WALS SHALL 2 PLYWOOD AND OSB SHALL	IT BY COMMON R	CALCE			
12	POST BELOW POST ABOVE (MATCH SIZE AND LOCATION) PROVIDE BLOCKING IN FLOOR TO MATCH POST WIDTH.	3. SM's THAT REQUIRE 3s FR. STADGERED.	WING SHALL USE	Se (MIN.) AT AD	SOULET . D 228	NIS AND NAILIN	NG SHALL BE S PFR 2016 CBC
(3)	DROP AND CONTINUE STRUCTURAL SLAB TO POST/ COLUMN.	5 PRECIPIL SAL CONNECTION SCREW) DAMETER.					
63	NICTALL THE 1 CHEAD (AND TOD CONNECTORS) EDGN CONTINUOUS MEADED TO TOD BLATE	LENGTH BY CLP SPACING	TO DETERMINE TO	TAL # OF CLPS	REQUIRED.	TANK TO YOUR	550000000

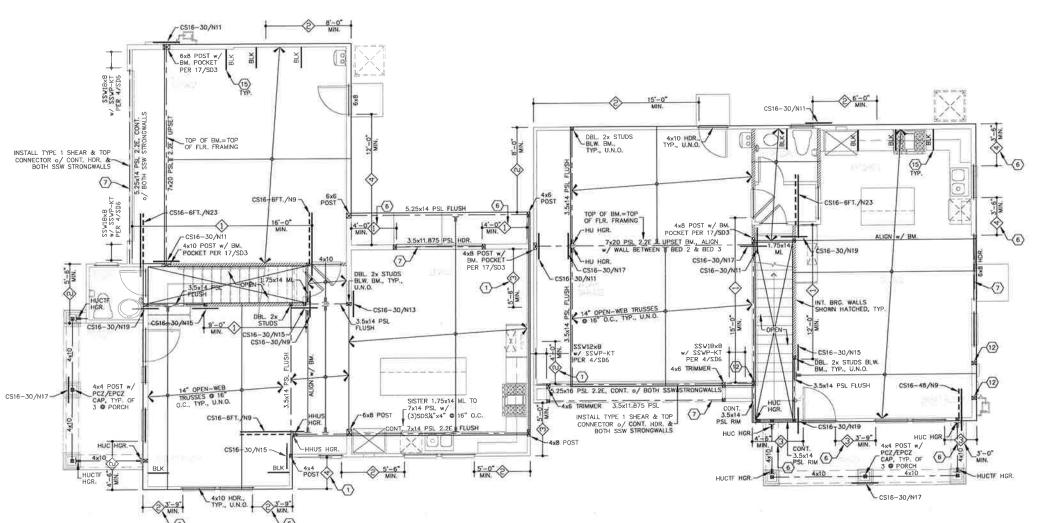
INSTALL FLOOR BLOCKING PER DETAIL 8/SD3.

CONTINUE SHEAR PLYWOOD ON TOP AND BOTTOM OF WINDOW PER DETAIL 13,/504

(1) INSTALL HANGERS DIRECTLY TO FLOOR BEAM/RIM PER 7/SDS, TYP U.N.O. . LOW ROOF

EPOXY ANCHORS.

2 X SILL PLATE REQUIRED, IF 3X SILL PROVIDED, USE 20d NAILS. STR 1 - STRUCTURAL I GRADE PLYMOSO OF GER



UNIT A

FLOOR FRAMING AND LOWER LEVEL SHEARWALL PLAN DUPLEX HOME - UNIT A & B

UNIT B

JR Structural Engineering, Inc.



Sandalwood (Bennett Place)

DUPLEX

December 30, 2019
CAD FILE:
S4.5.2—Floor.dwg
PROJECT ENGINEER: Melody John Nain JOB NO: 9F1105

S4.5.2

ROOF FRAMING NOTES - TRUSSES

Roof shall be framed with pre-monufactured roof trusses per the "Roof framing Schedule". Contractor shall install strong-backs, cross bridging, and/or bracing as specified by the roof truss shop drawings. Use Simpson's "LUS" type hangers, u.o.n.,

Non-truss rafters (if any) shall be sized as specified on the roof plan. Double rafters and rafter headers shall be provided around all openings in the roof. Double rafters below dormer and other roof mounted walls, blacking of equal depth of the rafters shall be provided between all rafters at their supports.

Roof trusses with flat bottom chords shall be secured to end bearing points with (3) 8d foe nalls. Roof trusses with sloped bottom chords shall be secured to bearing points with Simpson "IC" clips or equivalent connectors that allow horizontal movement in accordance with the roof

Nail roof sheathing with 8d nails at 6" o.c., at all supported sides and 12" o.c., at intermediate supports, u.o.n. Roof sheathing sheets located at roof edges or changes in framing shall be at least 24 inches wide or shall be edge blocked and nailed. Contractor shall install plywood edge nails to all gable trusses and all shear trusses (trusses with horizontal straps).

Inless otherwise noted, non-truss ceiling joists shall be spaced at Unless otherwise noted, non-truss ceiling joists shall be spaced at 24" a.c. (maximum) and shall be sized with the following maximum spans: 2x6 to 13 ft., 2x8 to 16 ft., 2x10 to 19 ft., 2x12 to 22 ft., Install full depth blocking located at mid-span of ceiling joists that span greater than 18 ft. Reduce ceiling joist spacing to improve performance of ceiling finishes or as required by the architectural plans. The ceiling joists listed above are not appropriate for floor loads or storage loads. Contact the engineer for framing to support these load conditions,

Use (3) 16d nails at 16" o.c. to nail double members together and 3/4" M.B. @ 16" o.c. to bolt 3 or more members together u.o.n.

Provide 2x blocking below all hips, valleys, and ridges

Chimneys shall be balloon framed from the floor level below the roof. All chimney walls shall be sheathed with plywood.

Install CS16—30 straps at top plate slope changes and other discontinuous top plate conditions.

See general notes for additional requirements. All detail callouts shall be considered typical. The contractor shall review the detail sheets for details not specifically referenced,

Tall roof trusses require special bottom chord load conditions for "limited storage" per CBC table 1607,1

Sixty foot clear span trusses require special inspection of temporary and permanent bracing per $1705,\!5,\!2$

ROOF TRUSS DESIGN REQUIREMENTS

Roof truss manufacturer shall supply to the contractor roof truss shop drawings for review and approval, Roof truss shop drawings shall be signed by a California registered professional engineer and shall include truss layouts, calculations, specifications, and details, Trusses shall be designed in accordance with the latest local building code for all loads imposed, including lateral loads and mechanical equipment loads. See the Load Schedule for typical dead and live loads used in the structural design. Truss designer shall size and specify all hangers necessary to support trusses.

 Truss designer shall reinforce all gable and sheer trusses to transfer loteral loads indicated on the plans from the top chard to the bottom chards see architectural plans for special truss requirements including ceiling configurations, overhongs, attic mounted FAU units, and openings for skylights, vents, chimneys, access doors, etc. Strong-backs, cross bridging, and/or bracing shall be provided and detailed as required to adequately braciall trusses. All connectors shall be ICC approved.

3. Truss layout shown on the plans is for truss manufacturer's aid in designing the trusses. Actual truss layout shall utilize bearing walls shown a the plans and shall mointain architectural roof and celling profiles. Interior walls shall not be used for bearing unless specifically noted in the structural

 $4,\,\,$ Total load and live load deflections shall be limited to L/240 and L/360 respectively. Deflections shall be further reduced to eliminate undesirable appearance, finish cracking, or shifting.

Truss shop drawings shall be reviewed and approved by the contractor 5. Trass anto provings and to eleviewed via disproved by the controctor prior to submittal to the engineer for review. Shop drowings (approved by the engineer) shall be forwarded to the building department. It shall be the responsibility of the contractor to obtain building department approval of calculations and shop drawings prior to fobrication. Approved final truss drawings shall become part of construction documents.

Trusses are to be designed for the following loads:

Top Chord Dead Load=see Gravity Load Schedule on SD1

Top Chord Live Load=20 psf where roof pitch is 4:12 or less; 19 psf
for 5:12 pitch; 18 psf for 6:12 pitch; 17 psf for 7:12 pitch; 16 psf
for 8:12 pitch; 15 psf for 9:12 pitch; 14 psf for 10:12 pitch; 13 psf
for 11:12 pitch; 12 psf for 12:12 pitch or steepers.

Bottom Chord Dead Load=6.0 psf Bottom Chord Live Load=10.0 psf

Roof truss bottom chards shall be designed for a live load of 20 psf nd the greater of imposed dead load or 10 psf where the 2016 CBC limited torage conditions apply (CBC Table 1607.1, Idem 25).

B. Where truss shop drawings show an uplift of 500 lbs, but less than 1000 lbs, install Simpson H10 Hurricone Tie from truss to double top plate. Where truss shop drawings show an uplift of 1000 lbs or greater, contact JR Structural.

9. Girder trusses at hip conditions shall be located at 8'—0" from exterior wall, unless noted otherwise.

ROOF FRAMING SCHEDULE

Roof shall be framed with pre-manufactured roof trusses at 24" o.c. installed per approved roof truss shap drawings. Roof truss manufactshall design the roof trusses as specified in the "Roof Truss Design Requirements" on this sheet.

Minimum window and door headers shall be 4x8 at 2x4 framed walls and 6x8 at 2x6 framed walls u.n.o.

Roof shall be sheathed with 1/2" (P1 24/0 or 32/16) CDX plywood or

California framing shall be constructed with 2x6 members at 24 $^{\rm n}$ o.c. supported to the roof below at 48 inches on center. Roof plywood shall continue below California framing.

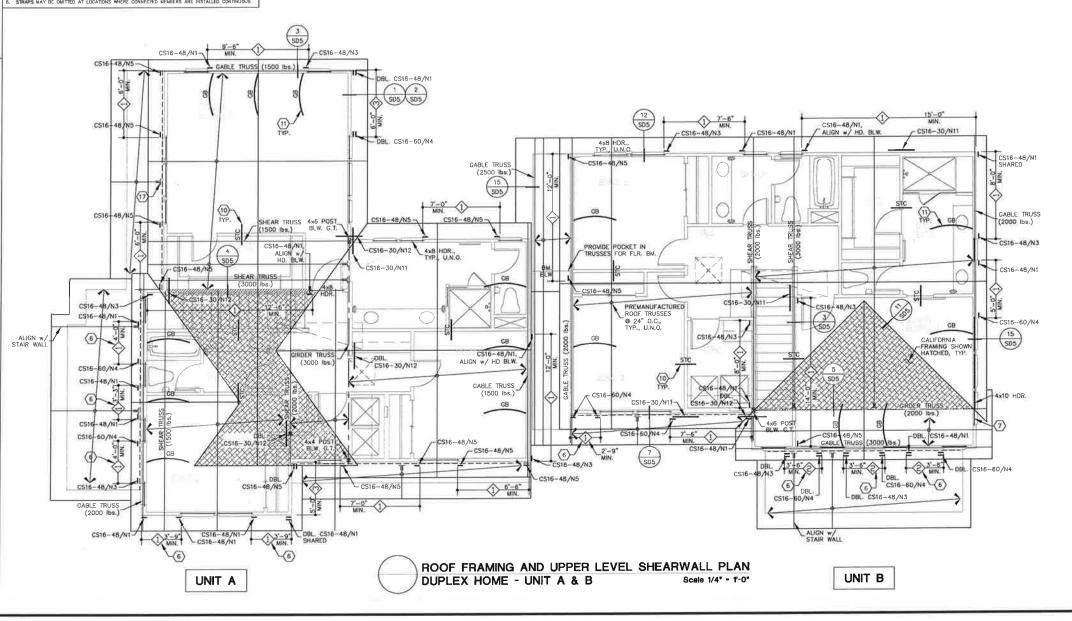
Top connectors shall be installed at all exterior wall top plates at $6 \, \text{ft}_{=} \, \text{o.c.}_{=}$

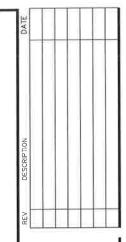
		STRAP	SCI	HEDL	JLE		PLAN NOTE KEY	SHEARWALL SCHEDULE					
вт		E GOOD FOR	7	5.467	Sastania (Autorita)	NOTE ID	DESCRIPTION	SHEAR WALL OF THE SHEAR WALL	NO.1	NO.2	NO.3	NO.4	NO.4-S
CS16		1,705	MISTAR	Noti	DBLCS16-48/NI		THIS SHEARWALL HAS BEEN ADDED TO IMPROVE STRUCTURE PERFORMANCE ONLY. THE	PLYWOOD OR OSB WALL SHEATHING	3/8"	3/8"	3/8"	3/8"	3/8" STR 1
	S16-48 MST48	3.410	1	110.4225	P LENGTH -	(1)	SHEARWALL DOES NOT MEET 2016 CBC REQUIREMENTS AND THEREFORE WAS NOT USED IN STRUCTURAL DESIGN	EDGE NAILING	84 0 6*	84 0 4	50 O 3°	8d 0 2*	8d 9 2*
CS16-		1,705		000000000000000000000000000000000000000	FERENCE -	_		3v MEMBERS REO'D	NO W	NO NO	YES	YES	755
	516-30 MST37	3,410	-	-STRAP TY		2	INSTALL HOLDOWNS AND ANCHOR BOLTS AT STRONGWALLS PER MANUFACTURER CONTRACTOR SHALL USE SIMPSON ANCHOR TEMPLATE TO PLACE ALL ANCHORS AT STRONGWALLS.	FIELD NAILING:	84 0 12"	8d 0 12*	8d @ 12"	Bd 0 12"	8d 0 12
OTE		CATION		SD4 DET, NO.	REMARKS	(3)	ADJUST FOUNDATION ELEVATION AT PORTAL TYPE STRONGWALLS TO PROVIDE DIRECT BEARING RETWEEN CONTINUIDUS HEADER AND TOP OF STRONGWALL.	SILL PLATE CONNECTION:	16d © 6"	16d 0 4"	16d @ 3"	16d © 2"	16d © 2"
N1	VERTICAL, HD POST 1	O HD POST		2	HD - HOLDOWN			TOP CONNECTION: (CHOOSE ONE)					
N2	VERTICAL, HD POST	TO FUM JOIST		4 SIM,	- Company	0	NOT USED	RBC ONE)	20"	13"	10"	B*	7*
N3	VERTICAL, HD POST 1	O WALL POST BEL	WC	2 SIM	EN. PLYWOOD TO WALL POST	(5)	OK TO USE STHOL4 STRAP TYPE HOLDOWN AT THIS LOCATION WITH 24 16-4 MAILS, MAIL FROM BOTTOM UP	A35, LTP5, LS50, OR L70	20"	14"	10"	8	7"
N4	WERTICAL, HD POST			5, 16, 19	EXTEND STRAP & WRAP ON HDR	(6)	FOR SHEARWALL HEIGHT TO WIDTH RATIOS GREATER THAN 2:1 BUT NOT EXCEEDING 3.5:1, THIS WALL HAS BEEN CHECKED FOR REDUCED SHEAR CAPACITY PER AWC SDPWS SECTION 4.3.3,4,1	LS90 OR LTP4	24" 30"	18" 20"	12" 16"	10" 12"	9" 10"
N5	VERTICAL, HD POST 1	O FLOOR BEAM (D	R FJ/FT)	4	WAY STRAP ON FLOOR BEAM	②	INSTALL DOUBLE TRIMMER STUDS BELOW EACH END OF THIS HEADER	5/8" MUDSILL A.B. WITH 2x MUDSILL:	© 48"	© 48°	Q 32*	0 24"	MUDSILL
N6	VERTICAL, JOIST OR	BEAM TO HD POST		9			LSL RM = 1 1/4 x (MATCH TAI DEPTH), 1.3E (1.75* RECOMMENDED)	WITH 3x MUDSILL:	Ø 48"	© 48"	0 42	© 32"	© 28"
N7	VERTICAL, HEADER TO	HOLDOWN POST		16	CENTER STRAP ON HEADER	B	LSL RIM BOARD BY TRUSJOIST. LSL = 1 3/4 x (MATCH TJ DEPTH), 1.55E LSL BEAM BY TRUSJOIST. ON TO USE EQUIVALENT SIZE ML.	EPOXY / TITEN HD 7,8	@ 40"	o 30"	© 20°	9 16"	0 14"
88	NOT USED						ML = 1 3/4 x (WATCH TJI DEPTH), 1.0E EVE WIGRDELAN BEAN BY THUSSOST.	ALLOWABLE	260	350	490	640	730
V9	HORIZONTAL, BEAM T	D FLOOR BLOCKING			LAP 15" ON BEAM	(0)	SEE DETAIL 17/SD3 FOR BEAM POCKET ALTERNATE TO COLUMN CAP, WHERE NOTED ONLY.	SHEAR (PLF)	200	330	490	040	/50
N10	HORIZONTAL, TOP &	BOTTOM OF WADO		13		(0)	SECURE INTERIOR WALL TO ROOF TRUSS BOTTOM CHORD PER DETAIL 17/SD5.	NOTES:	COMMON OR CAL	VANIZED BOY CA	O ZILAN YOR VI	IALL BE HOT DIPE	PED DB
N11	HORIZONTAL, T/ P TO) T/ P		6, 7	T/P = TOP PLATE	(1)	BRACE GABLE WALL WITH 2x KICKER PER DETAIL 13/SD5	TUMBLED. SILL NAILS SHALL	T BC COMMON N	ANT ON BETTER (EXCEPT WHERE ST	RUCTURAL 1 GRA	DE IS NOTED)
N12	HORIZONTAL T/ P TO	ROOF TRUSS		17		(12)	POST BELOW POST ABOVE (MATCH SIZE AND LOCATION) PROVIDE BLOCKING IN FLOOR TO MATCH POST MOTH.	3. SW'S THAT REQUIRE 3+ FRA STAGGERED. 4. ALL SHEADWRLE ANDHOR B	WING SHALL USE	Se (MINE.) AT AD-	DINING PANEL JO	NTS AND NAILIN	G SHALL BE
N13	HORIZONTAL, T/ P TO	FJ (OR FT)			FJ = FLR JOIST, FT = FLR TRUSS	(0)	DROP AND CONTINUE STRUCTURAL SLAB TO POST/ COLUMN.	5. PRICHALL SIL CONNECTION:	ERE NEEDED	TO AVOID WOOD	USE C	MILL BIT SIZE =	0.75 NAIL (DR
N14	HORIZONTAL, T/ P TO	WALL BLOCKING		15	LAP 15" ONTO TOP PLATE		INSTALL TYPE 1 SHEAR (AND TOP CONNECTORS) FROM CONTINUOUS HEADER TO TOP PLATE		MAY BE INCREASE	D WHERE TOP PL	ATE CONTINUES BI	EYOND SHEARWALL	L. DIVIDE SW
N15	HORIZONTAL, T/P TO	DEAM		8		(0)		6. TOP COMMECTOR SPACING 1 ENOTH BY CLP SPACING 1 7. OK TO USE % DIAMETER 1 DISTANCE SHALL BE 1% W 8. OK TO EPOXY MITHERADED MICHIGAN PROVIDE SPECIAL INSP. M. PROVIDE SPECIAL INSP.	T' LONG SHPSO	THEN HO SCHOOL	ANDIORS EMBER	MENT SHALL BE	5.5" MN. (DOE
V16	HORIZONTAL, T/P TO	DECK JOIST		n		_ (6)	INSTALL FLOOR BLOCKING PER DETAIL B/SD3	8. OK TO EPOXY N THREADED	ROD, EMBED 5"	MITH SMPSON "S	SHALL BE THE	N MANUFACTURER MN. END DISTANC	E DIALL BE S"
N17	HORIZONTAL BEAM T	D BEAM		10		(19)	CONTINUE SHEAR PLYWOOD ON TOP AND BOTTOM OF WINDOW PER DETAIL 13/SD4					URNO INSTALLATI	ON DE ALL
v18	HORIZONTAL, BEAM TO	ROOF TRUSS		18		(1)	INSTALL HANGERS DIRECTLY TO FLOOR BEAN/HIM FER T/SDS, TYP. U.N.O. & LOW ROOF.	9, 2X SILL PLATE REQUIRED, I		Control	S.		W-SCHED-38.deg
V19	HORIZONTAL, BEAM TO	D FJ (OR FT)		10				and a simperiore res	NO. TETHOOP OF	VIII.			
120	HORIZONTAL, BEAM T	DECK JOST		10		1							
N21	HORIZONTAL, ROOF TO	IUSS TO ROOF TRU	ISS			1							
122	HORIZONTAL, FJ TO F	J (OR FT TO FT)		10		1							

HORIZONTAL, T/P TO ROOF (OR FLOOR) BLKG LAP 15" ONTO TOP PLATE

ACEMENT OF FRAMING (I.E. STRAPS N12, N13, ETC.).

STRAPS MAY BE OMITTED AT LOCATIONS WHERE CONNECTED MEMBERS ARE INSTALLED CONTINUOUS.





JR Structural Engineering, Inc. 3





Sandalwood (Bennett Place) Realty

DUPLEX

December 30, 2019
CAD FILE
S4.5.3—Roof dwg
PROJECT ENGINEER: Melody John Nain RB JOB NO: 9F1105

SHEET NO: \$4.5.3

ATTIC VENTILATION ANALYSIS

O'Hagin Architectural Services Team is pleased to provide the following Attic Ventilation Analysis. Please note that this analysis is based upon information submitted by you, including, but not limited to, location of the subject property, square footage of attic area(s), elevations provided, critical design choices (i.e., use of vapor barrier) and design intent.

Please remember that final responsibility for proper product installation, as well as compliance with all ordinances, regulations, codes, etc., for any submitted project remains with the architects, builders and contractors associated with this project. Please check with your local code official for specific code requirements for this project. All recipients agree to hold harmless O'Hagin and its agents from any loss, cost or expense associated with the use of this free service.

Sandalwood Santa Rosa, CA Location: May 03, 2019 Date:

Calculation Method Used:

... ammunum net tree ventilation area (NFVA) shall be 1/150 of the area of the vented space. The NFVA shall be permitted to be reduced to 1/300 provided the following exceptions: The minimum net free ventilation area (NFVA) shall be 1/150 of the area of the vented

- 1. In Climate Zones 14 and 16, a Class I or II vapor retarder is installed on the warm-in-winter
- 1. In Climate Zones 14 and 16, a Class 1 or 11 vapor relarder is installed on the warm-in-water side of the celling
 2. Al least 40 percent and not more flam 50 percent of the required ventilating sera is provided by ventilators located in the upper portion of the aftic or rafter space. Upper ventilators shall be located no more than 3 feet [914 mm] below the ridge or highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of the space shall be permitted.

California Residential Code, (2016); Chapter 8 Roof-Ceiling Construction, Section R806 Roof Ventilation (Pages 460-463)

The patented O'Hagin Balanced Ventilation System, when properly installed, is in full compliance with the applicable Code section, cited above.

The enclosed Attic Ventilation Analysis should include the O'Hagin patented balanced ventilation system design which utilizes O'Hagin vents strategically placed both high (near the ridge for extraust) and low (near the eave for intake). This strategic high and low placement of O'Hagin vents allows the balanced system to fully aprimize built the wind and thermal effects to provide superior passive ventilation throughout the attic, Additionally, placement of O'Hagin vents both high and low should provide an equal, balanced rate of ventilation performance in each area.

If the enclosed Aftic Ventilation Analysis includes specification of O'Hugin vents in combination with non-O'Hagin intake or cabaust vents, then this should also meet the code requirements, but may result in an unbalanced ventilation system. This combination of O'Hagin and non-O'Hagin ventilation products is not recommended by the manufacturer. For example, if the non-O'Hagin ventilation products are not installed



Project No., 2019347 Page L of 2

to specification or operate less efficiently than the O'Hagin ventilation products, then the system may not be in balance, resulting in a potential reduction in overall performance.

Specific notes accompany the enclosed Attic Ventilation Analysis, as follows:

1. A minimum 22" x 30" opening shall be provided at all roof fill/frame assemblies for required access A minimum 22 x 20 opening share provided an arrow invitate assessments for required access and air flow movement. Where fill/frame conditions do not permit required openings, a 12" x 12" opening shall be provided at the upper portion of the fill/frame area.

If the required 22" x 30" openings are not provided at all roof fill/frame assemblies, the system will not perform to the original design intent. This may result in restriction of free air flow and/or effect

- O'Hagin vents are required to be installed in accordance with printed instructions provided in each
 carton of vents. Installation instructions are also available on O'Hagin's website; www.ohagin.com.
- 3. All low vents (in(ake) shall be uniformly installed a minimum of 3 inches above the attic insulation, The width of any eave overhang shall be taken into consideration so, for example, the insulation does not block the attic vent opening.
- 4. For composition shingle, slate or shake roofs, all high vents (exhaust) shall be uniformly installed two (2) to three (3) courses below the ridge assembly, unless prevented by structural framing or other design limitations. For tile roofs, all high vents (exhaust) shall be uniformly installed in the second or third course below the ridge assembly (at highest point possible — a minimum of one full course below the ridge) unless prevented by structural framing or other design limitations.
- 5. O'Hagin attic vents are designed to be part of a complete roofing system. Failure to properly install all components will negatively impact overall performance and will void warranty pro
- 6. O'Hagin attic vents should not be installed below or adjacent to valleys or other areas of
- Recommended Painting Procedures for O'Hagin galvanized, aluminum and copper vents are available on O'Hagin's website: www.ohagin.com
- 8. Complete details on warranty, including limitations and exclusions, are available on O'Hagin's website: www.ohagin.com.
- 9. For specific information regarding rain, snow, high-velocity wind or Wildland Urhan Interface (WUI) applications, please contact O'Hagin
- For customer service or technical support, as well as the most current updates/Technical Bulletins, please call toll free 877/324-0444, or visit O'Hagin's website at www.ohagin.com

Prepared By: Architectural Services Department O*HAGIN 210 Classic Court, Suite 100 Rohnert Park, C'A 94928

Email: drawings@ohagin.com Phone 877/324-0444

O'HAGIN

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O'HAGIN - Vents for Slate, Shake & Shingle Roofs Used in Conjunction with all Natural & Synthetic Products

Tapered, Low-Profile w/Standard Flange

O'Hagin's tapered, low-profile allic vents for composition shingle, state 6 shake roof applications provide a generous 72 square inches of Net Free Venilation Area and may be used as both intake and exhaust vents. This one-piece vent design is available in mill finish or pre-painted 25 gauge, 690 galvanized steel in colors listed below, 16 oz copper; or 0,032 oz, aluminum and are available in the following three options:

O 1932 oz. aluminum and are available in the following three options:

O'Hagin Standard Attic Vents - designed specifically to blend into the autrounding roofing material and available in standard mill finish gahanized steel aluminum, and copper - with select vents being available in pre-painted colors. Color stability, disability and chak-resistance properties are achieved by using the most technologically advanced application process available.

O'Hagin WeatherMaster** and WeatherMaster HD** Attic Vents - same unique features as O'Hagin Standard Allity consists and designed specifically the shabs where rain or show may be a conserv. O'Hagin WeatherMaster** attic vents feature an institute standard-sheet of either and the shabs where rain or show may be a conserv. O'Hagin WeatherMaster** attic vents feature an institute standard-sheet of either attick the shabs where rain or show may be a conserv. O'Hagin WeatherMaster** attic vents feature an institute standard-sheet attack and the same shabel of the shabs of the shabs when the shabel of the shabs of the shabs when the shabel or the shabel of the shabel of the shabel or shabeled or the shabeled or the shabeled of the shabeled of the shabeled of the shabeled or shabeled or shabeled or the sh



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TECHNICAL BULLETIN

INSTALLATION OF O'HAGIN ATTIC VENTS IN CONJUNCTION WITH PHOTOVOLTAIC PANEL INSTALLATIONS

O'Hagin promotes the increased energy efficiencies for residential structures provided by the installation of roof-top Photovoltaic Panels (Solar Power Systems)

The Use of O'Hagin Attic Ventilation Products in Conjunction with Photovoltaic Panel Installations

All O'Hagin attic ventilation products can be used in conjunction with photovoltaic panel installations in residential

- A. Clay and Concrete Tile Roofing Installations Generally, residential photovoltaic installations in clay and concrete tile roofing applications fall into two categories, as follows:
- 1) Integrated Photovoltaic Panels (i.e., those that are mounted on a batten-type system and
- mparably dimensioned to fit within a field of roofing tile); or,
- 2) Raised Photovoltaic Panel Installation (i.e., those that are installed on a bracket system that is raised above the surface of the roofing materials, typically, 2 to 6 inches).
- B. Composition, State or Shake Roofing Applications Generally, residential photovoltaic panel installations on composition, slate or shake roofing applications are mounted on a raised bracket support system.

In either instance above, O'Hagin attic ventilation products can be used to provide code-required ventilation for the residence subject to certain limitations set forth below, as follows:

- Installed O'Hagin artic ventilation products are not to be connected to the electrical components of the
 photovoltaic panel assembly in any manner and, moreover, the photovoltaic panel (bracket mounting
 system, writing, inverter and/or other system components) manufacturer's installation instructions must be
 followed with respect to installation proximity of O'Hagin attic ventilation products used in conjunction
 with any photovoltaic panel system.
- In the event that a raised photovoltaic mounting bracket system is used over the focation of an installed O'llagin aftic ventilation product(s), then we suggest a minimum clearance of 2 to 6 inches from the topside of the vent to the underside of the panel (or assembly). Additionally, the assembly and/or photovoltaic panel installation should not create any areas of increased water run-off in close proximity to the vent. and/or the potential for accumulation of debris at any location in close proximity to the vent
- . The photovoltaic panel installation should not restrict airflow in and around the installed O'Hagin attic tilation product(s) and, furthermore, not impede either the intake function or exhaust function of the O'Hagin passive attic ventilation system.

For questions, please contact O Hagin toll free at (877) 324-0444.

March, 2010 April 4, 2012 April 16, 2012 November, 2012

210 Classic Court, Suite 100 A Rohnert Park, CA 94928 Phone: 877/324-0444 A Fax: 707/588-9187





FOCUS REALTY SERVICES INC.

ORANGE COUNTY LOS ANGELES . BAY AREA



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NO.	DATE	DESCRIPTION
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DUPLEX - UNITS A & B ATTIC VENT CALCULATIONS

PROJECT MANAGER	
DESIGNER	M.R.
DRAWN BY:	
REVIEWED BY:	
1ST BLDG, DEPT, SUBMITTAL	
ISSUED FOR CONSTRUCTION :	
JOB NUMBER :	2019034
CAD FILE NAME :	
DATE:	SHEET:

12-30-2019 AVC.100