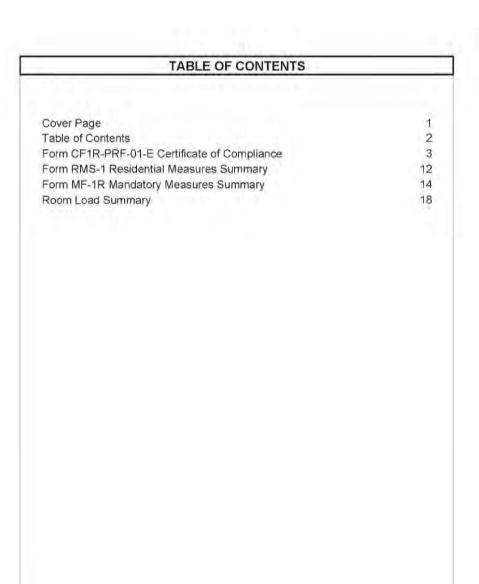


BUILDING ENERGY ANALYSIS REPORT PROJECT: San Benito Ave Addition 517 San Benito Avenue Los Gatos, CA 95030 Project Designer: JTG Architects 38 North Almaden Blvd., Unit 913 San Jose, CA 95110 612-481-2293 Report Prepared by: Timothy Carstairs, CEA, HERS, GPR Carstairs Energy Inc. 2238 Bayview Heights Drive, Suite E Los Osos, CA 93402 (805) 904-9048 Job Number: 21-09287 9/28/2021

This program developed by EnergySoft Software - www.energysoft.com.



Calculation Date/Time: 2021-09-28109:25:26-07:00

Assimbly Layers

Calculation Description: Title 24 Analysis

OPAGUE SURFACE CONSTRUCTIONS

01 02 03 04 05 06 07

Construction Name Surface Type Construction Type Pareling Ryalium Review Construction

Construction Name Surface Type Construction Type Pareling Ryalium Review Construction

Construction Name Construction Type Construction

(C) (C) (C)	e: San Benito Ave Addition			on Date/Time: 2021-0			(Page 1 of 5
alculation i	Description: Title 24 Analysii		InputFile	Mame: San Benito A	ve Addition (517	rib@196c	
ENERAL INF	ORMATION						
G1	Project Name	San Benito Ave Addition					
02	8un Title	Title 24 Analysis					
CIS.	Project Lecution	517 San Berrito Avenue		-			
04	City	Los Gatos	- 05	- 1	Standards Version	2019	
06	Zia to de	95030	07		Suftware Version	EnergyPro 8.2	
OS	Climate Zone	4	Q9	Front Orlantation	on (deg/ Cardinal)	90	
10	Muliding Type	Single family	11	Number	of Dwelling Units	1	
12	Project Scape	AdditionAlteration	13	Nun	nber of Bedrooms	2.	
14	Addition Cond. Floor Area (ft ²)	994	15		Number of Stories	1	
16	Existing Cond. Floor Aren (ft ²)	796	17	Fanestrat(on	Average U-factor	0.3	
18	Total Cond. Floor Area (H ²)	1290	.19	Gleat	ng Percentage (%)	13.57%	
20	ADU Bedroom Count	n/4	21	ADU Condi	tioned Floor Area	11/4	
27	Is Natural Gas Aveilable?	Wis					
OMPLIANCE	DESIRES						
ON PERMICE	Building Complies With Computer	Destrum store					
02	Building does not require field to:						
- 03		more Spacial Pautures shown below					
- 7-	100000000000000000000000000000000000000	1-12-2-1011 2-12-13 13-111 1-111					
		IN	ERGY USE SUMMAR	(Y			
	Energy Use (KTDV/h2-yr)	Standard Design	Þr	opased Design	Complian	ce Margin	Percent Improvement
	Space Heating	30.07		30.86	0	79	2.6
	Space Cooling	28.83		35.47	1	14.	11.6
	IAQ Vernifation	p		0	45	ů.	
	Water Heating	24.51		24.53		9	0
	self Olification/Elevinity Cradit	11/4		0		p	10/6
	Compliance Energy Total	88.41		80.86	2	55	3.1
	Number		Registration (h/to/	Nove:		Bs Provider	
Registration			Land Albertan Strain				
Registration	mangy I (ficiency Standards: 701 9 large		Report Version: JO.				2021-09-28 09.35:56

REQUIRED SPECIAL FEATURES						
The following are features the	it must be installed as condition	for in reting the roads	ed energy performance for thi	is computer analysis		
Cool roof Mara ductwork added i	slass than 40 (L in length					
HERS FEATURE SUMMARY						
	f the Jugines that must be field ng tuitles below flegistered CF21				igy performance for this com-	mter analysis Additional
heating System verifications: - None -						
None — Dome vic Hot Water System V None —	erifications:					
None — Dome vic Hot Water System V None —	erifications:	03	Q4	05	06	97
Hone — Deme sic Hat Water System V None BUILDING -PEATURES IMPORT	writisations MATTON	Number of Owell	1.5	ps, Number of Zones	.06 Number of Ventilation Codding Systems	07 Number of Water Heating Systems
Hone - Doing sic Not Water System V None BUILDING - FEATURES INFOR	MATION 02	Number of Owell		T T T T T T T T T T T T T T T T T T T	Number of Ventilation	Number of Water
None - Dominate Not Water System V None BUILDING - PEATURES INFORE CO Project Name	MATION 02 Conflittoned Floar Area (117	Number of Owell Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Home — Month of the Water System C North	MATION 02 Conflittoned Floar Area (117	Number of Owell Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Home — Dome vic Not Water System V Norm BUILDING - FEATURES INFORM O Project Name San Bento Ave Arkition COME INFORMATION	erifications MATION 00: Conditioned Floor Area (17' 1290 00:	Number of Owelli Units 1	Number of Bedrooms	Number of Zones 2	Number of Ventilation Cooling Systems 0	Number of Water Heating Systems 1
Demir vice Not Water Systems (* Norm * Norm * Norm * Norm * Norm * O * Project Name 5an Benito ave Addition **ZONE IMPORMATION **O **O **O **O **O **O **O	erifications MATION 00: Conditioned Floor Area (17' 1290 00:	Number of Owell Units 1	Number of fledrooms	Number of Zones 2	Number of Ventilation Cooling Systems 0	Number of Water Heating Systems
- Home - Dome - Home - Money Home -	erifications MATION 00: Conditioned Floor Area (N 1290 00 20re Type H	Number of Dwell Units I 03 VAC System Name	fumber of fledrooms y O4 Zone Floor Area (ft²)	Number of Zones 2 05 Avg. Celling Height	Number of Ventilation Codling Systems 0 Off Water Heating System 1	Number of Water Heating Systems 1 07 Water Heating System 2

Calculation Date/Time: 2021-09-28109-25:26-67:00

Input File Name: 5an Boolto Ave Addition (517) ribd19x

A Part And In Control Latin	an Benito Ave A ription: Title Jd					lation Date/Ti File Name: 5a					(Page 5 of 9)	Project Name: San Calculation Descri										21-09-2810 to Ave Addit				(Page 4
PAQUE SURFACE	is .			- L -							7	FENESTRATION / GL	AZING								- 3		111			7 7 1
OI.	02	09	04	05	09	-07	08	-	00	10	11	01	02	03	04	95	06	07	Dill	09 10) (11 11	111	14	15	10
Norte	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft		e) Wal	Eximitions	Status	Verified Existing Condition	Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (h)		rea (t²) U-fin		ector SHG	SHGC Source	Exterior Shading	Status	Verilla Existin Conditi
Front Wall	Leisting Livina Area	N.D.Wall	90	frint	240	84	90	1-1	nont	Lasting	No	I workey	Window	Flom Wall	tioni	90			1	3J 0	3 19	HE 0.2	- NEKC	Bug Scheen	Altered	No
Left Wall	Existing Living	K-0-Wall	180	1.00	72	0	90		none	Destina.	No	Window I	Window	Trom Wall	Front	90			-1-	33 0.	3 N	FRC 0,2	NERC	Bug Scinen	Altered	No
and from	Area	, normani,	2.80		//9	,,,	744	_	THE STATE OF	TAXABLE .	100	Window 4	Window	Hight Wall	(Gales	0	,		1	11 0.	3 16	FRC 0.2	NERC	flug Schmitt	Altered	No
Walte Walf	Existing Livinal	6:0 9of	a	Plaint	192	82	WO		1000	Extring	No.	Window 3	Window"	Michre Wall	Biglit	0			1.	20 0,) N	FRC 0,2	MARC	Hug Sermo	Altered	Ho
Front Wall 2:	New Living Area	R 15 Wall	90	front	48	0	90		etension	New	10/0	Window 10	Window	Delt swall I	Left	190			1	12 0) 10	FRC 0,2	NERC	Bug Scrim	Hew	n/s
-	New Living Area	RAS Wall	1.00	1.00	260	24	90	_	atenson	New	0/4	Window 9	Window	Diff Wall 2	Lett	180			1	12 0	y N	FEC 0.2	NIEC	Bug Screen	Hew	1/1
Bear Walf	New Living Area	N 15 Walf	270	Back	280	61	100		indension :	New	N/s	Window 8	Window	flear Wall	Back	27.0			.J.	20 0) N	FRC 0,2	NIFE	Hug Scrim	New	n/
	New Diving Area	11 15 Wall		Higher	80	12	110	_	xtension	New	0/0	Window ?	Window	Rear Wall	Back	270	-		1.	3 0	3 N	FRC 0.2	NIRC	Bull Screen	Rev	- n/
derior Surface	Coloring Uning	8-0 Wall1	0/9	tya	200	U	11/4			new	iya	Wintow 5	Window	Rear Wall Right Wall 2	Back Night	970 P			-	20 0 12 0	_	FRC 0.2	_	Bug Screen	New	n/
Boat	Existing Living	R-11 Boot Atric	0/0	ma	796	0/0	1/0		-+	rining	No	OPAQUE DOORS						_								_
1 70.00	Area .	TOTAL PROPERTY.	12,00									00		05			03	- 1		04			05		- 96	
Roof 2	New Living Area	N-30 Roof Affic	0/9	(6/9	494	8/8	100	100	_	Best	1/4	Name		Side of B	allding	-	Area (ft²)			U-factor			Status	Vei	med Eximo	ng Contin
Maiurit (foor	Existing Living	8.0.Hour Crowbpace	n/a	n/a	796	11/8	19/0			T. GIVING	No	Door		front	wall		50			0.5		1	Existing		No.	
nased Floor 2	New Living Area	8.49 Floor Crivil space	n/a	n/a	494	n/a	nia	- 1		New	10/a	Drice 3		Stat V	Vill		ta -			0.4			New		n/i	i .
	C	Crimit Stace	1.7.2.1	_			-	_		-		OPAQUE SURFACE C	ONSTRUCTION	is		_		-	_		_	_				
TTIC												01		02	03			04	\neg	05		06	07		08	
01 Name		02: Construction		O3 Type	Roof Alse	OS Hoof	Pao!	07 Radiant	Oli Chai Rpoi	O9 Status	10 Verified Existing	Construction Na	ne su	rface Types	Construction	er Type	-	rankhe		Total Cavit	V C0	or / Exterior intinuous	U-factor	Ass	erybly Laye	rs.
	55 500			A COLUMN	(x)n12]	Reflectance	Emittance	Barrier		THE PARTY	Condition		_		_	-			-		-	R-value		27.4.4.4		
dic Existing Uvin Addic New (Wing		Affic RoofEsisting Livin		Ventilate		0.63	0.75	No Yes	No Ves	Fishing Niso	No IV/s	11-0 West	10	erica Walls	Woodlawe	ea wor	214.5	16 III O.1	-	E-0	900	ne / None	0.302	Eavily / Fr	i thi Gypsii ame no in or Finish W heathing/d	ail / 2mi /oarl
legistration Num	ber				Begistration De				III IIS Provide	NT .		Pegistration Number	6		•	_		bogratio	tion thate	Time!	_	-	100)6	Provider		
A Building Lnon	y Efficiency Stanc	lands - 2010 Ne galeral al	Compliance		Report Version	J019.1.300			Report Gone	rated 2021 09	211 09:35:56	CA Building Energy	Efficiency Star	dants 2010 to	adornial Comp	dianco		Report V	At sion: J	19.1.300			Repe	n Generated 2	021 09 28	09:25:56

Project Name: 5an Bente	o Ave Addition		Calc	ulation Date/Tir	me: 2021-09-2810	92526-07	00 (Page 5 c
Calculation Description:	Title 24 Analysis		Inpo	e File Name: 5a	n Berita Ave Addit	ion (517) rt	bd19x
OPAQUE SURFACE CONSTR	uctions						
01	œ	ds	D4	05	D6	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
1), 15 Well	Exterior Walls	Wood I (amed Wall	244 # 1644 O. C.	R45	None / None	0.089	h side Finish: Gypsim Bond Cavity / Frame: B-15 / 254 Extenor Finish: Wood Siding/sheattling/decking
B-0 Wall I	Interior Walts	Wood Framed Wall	2x4 (0 16 in Ct. C.	F-0	None / None	0.277	Inside Finish: Oypsen Board Cavity / Frame: no Insul. / 2x4 Other Side Finish: Gypsem Board
Attic Rooffelisting Living. Area	AMIC RINGS	Wood Framed Ceiling	264 (0 24 hr t). C.	R-0	None / None	0.644	Roofing: Light Roof (Asphalt Shing) Boof Deck: Wood Siding/sheathing/decking Cavity/ Frame: no.insul./2x4
anie huofNew Livina Area	Attic Burds	Wood Framed Calling	zed pří zálin ca s	R-D	Name / None	0.644	Ponfine: Light Poof (Asphali Shine) front Dack: Wood Siding/iheathing/dacking Civity / Frame: no insul. / Jon.
Hall from Crandspace	Hoory Dyer Craw (space	Wood Framed Hear	2x12 (0.16 in O. t	0.0	None / None	0.216	Hoor Surface: Curputed Hoor Deck: Wood Siding/Areathing/decking Cavity / Frame: no Insul. / 2x12
fi-19 / foor Crawlspace	Hoors Own Crawlin ace	Wood Framed Floor	2510 # 16 in 0, C.	10.10	None / None	0.046	Floor Surface; Carpeted Floor Dock: Wood Siding/steathing/docking Cavity / Framer, K-19 / 2n10
# 11 Roy(Actio	Culling sthelow	Wood Framed Ceiling	2s4 ii) 24 lic O. C.	Max	None / None	0,081	Over Cerling Jorsts, R-1,9 Insur, Cavity / Framm, R-9,1 / Jul Inside Emist: Gyanam Board

300,000,000,000,000,000	14,5 min-1,0-1577	1,000	Process of the second	10,000	Siding/sheathing/decking			197				-				*/	l) side	men: ospan	n Ban
					Inside Finitin Gypsion Board	BUILDING ER	VELOPE - HEF	RS VERIFICATION		_		_							_
Wood Framed Wall	2x4 (0 16 in Ct. C.	R-10	None / None	0.277	Cavity / Frame: no Insul. / 2x4 Other Side Finish: Gypsum Board		01				-	02:	100		Oil	7 11		104	
					Series Services Francis Francis	Qualit	Insulation In	estallation (CII)		H/g	h it-value Spr	ay Foam Insula	tion	Bulldi	ng Envelope A	Air Leakage		CFM50	
Wood framed Colling	264 (6) 24 (n) (c) (c)	R-0	None / None	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Derk: Wood Siding/sheathing/decking		Hot Regu	ned			Not R	equired			Nat Require	ed		0/x	
75000		- 4			Cavity / Feame: no.insul. / 2x4	WATER HEAT	ing systems							- 36					
*************				-	Ponfing: Light Poof (Asphalt Shingle)	01		02	03	-		14	05		06	07	08	09	
World Framed Gilling	204 při 24 lin Ci E	PD	Masse / None	0.644	front Direk: Wood Siding/sheathing/direkting Siviny / Frame: no Inski, / 2km	Name	Syst	em Type Div	ributio	п Туре	Water Hair	(er Name (#)	Soler Hee System		Compact (stribut/on	HERS Verification	Stetus	Verified Existing Condition	He He
Wood Trained Hear	2x1.2 (0.16 in O. E	6-6	Name / None	0.216	Hoor Surface: Corpoted Hoor Deck: Wood Siding/dreathing/decking Cavity / Frame: no insul. / 2<12	DHW Sys			Standa Disember Aysen	lion:	DHWHI	rater t (t)	nja		Nooe	inja	holding	No.	-
	ETEL ATTO	Tour	L. V.		Hoor Surface; Carpeted Floor Deck: Wood	WATER HEAT	rius		_										
Wood Framed Floor	25:10-#F 16 in. O. C.	10.19	None / None	0.046	Siding/steathing/decking Cavity / Framm. K-19 / 2x10	01	02	-05	04	05	06	07	os	99	10	11	12	13)	T
Wood Framed Celling	254 10 24 Hz O, C	R41	None / None	0,081	Over Ceiling Johns R-1,9 Insul, Carrity / Frame: R-9,1 / Ja4 Inside Finish: Gyroum Brand	Name	Heating Blement Type	Tank Type	# of Unite	Tank Vol. (gel)	Energy Factor or Efficiency	input Rating or Pilot	Tank Insulation R-value (int/Ext)	Standby Loss or Recovery (Rating or		Tank Location or Ambient Condition	Status	LAN Exercise
						Heater 1	Sinc	Small Stoyage	į	30.	11558	#= 75) ilinyiv	0	(M))y/a	11/9	n/a	County	
	Negration Di	m/Onte:		100	15 Providec	Pegintration	Number		ī				Negratration	Oute/Sine:			III (95 Providec		
Gilental Compliance	Report Version	J019.1.300		iten	or (Quine amil 20/1-09-28 09/25:56	CA fixibling	Empley Utilicies	ny Stimlarité J	01.9 (0.0	elemat	Cimullance		Report Ver	ion J019.1.	500		Digital Contrained	1011-09-28	00,15

CERTIFICATE OF COMPLIANCE

WATER HEATING - HERS	VERIFICATION				-						
01	02	- 09		01		05	06		07		.08
Name	Pipe insulation	Parallel	Pining	Compact Distributi		Distribution ype	Recipculation Cor	troi	Central DHV Distribution		Shower Grain Wate Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not like	guirent	Not Required		lenu	Not Required	-11	Not Require	d	Not Required
SPACE CONDITIONING S	VSTEMS.			_							
·m	02		03	04	os	06	07	100	00	10	ii.
Marrie	System	Type	Heating Liv Name	Cooling Linit Name	Pan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Candition	Hantii Equipre Coun	ent Equipmen
HVAC System1	Heating and co		Heating Componer 1	Cooling Component L	HVAC (an I	An Den Dy tor System 1	n/a	District	No	1	i
HVAC - HEATING UNIT T	YPES										
0	1		02	+		0	(-1-		04	
Na	114		System	Type		Number	of Units		Н	enting Elfi	dency
Healting Co.	mpasent 1		Emmigas	firnace						AHH-9	15
HYAC - COOLING UNIT T	YPES										
-01	05	- 03	-	- 04	- 1	06	06	- 1	07		00
Numa	System Type	Number	of Units	Efficiency EER/CEE	R SHIDS	мсузавн	Zonally Control	led .	Mulit-spani Compresso		HERS Verification
Cooling Companion 1	Central split AC			MJ		15	Not Zongl	4	Single Spen	a '	tooling tompolen Thers cool

Marrie:	5anb	onito Ave Addit	ion (517)	ribd19x			Calculatio	n Description: Hille	24 Analysis						Input	illo Name	s: San benit	o Ave Additio	0 (517) 3	10d19x		
							HVAC - DIS	TRIBUTION SYSTEMS	7.7						7 10 1						100	
05		06		07		.08	01	02	03	04	05	06	0.7	08	00	10	11	12	13	14	15	16
Distribut	tion	Rechaulation Co.	ntroi	Central DHV		er Orain Water		9		Duct.in	. A-value	Duct L	postion	Sullan	a Area						1.15	
pe		Not Required	1	Not Require		at Recovery of Required	Name	Түрө	Design Type	Supply	Return	Supply	Heturn	Supply	Heturn	Bypass Duct	Duct Leakage	HERS Verification	Status	Verified Existing Condition	Existing Distribution system	New Ducto
0	16	07	100	00	io	ii	Air	Unconditioned	Non- vention	N-G	na.	Attic	ANG	194	11/8	No. Hypuns	Extuing (not	Air Distributi on System	tristing	No.	n/a	11/4
Distrib Nat		Required Thermostar Type	Status	Verified Existing Candition	Hanting Equipment Count	Cooling Equipment Count	System 1	anic	Yennen	H.					. 1	Duct	specified)	A-hary dist	≤ figur			LÜİ.
	dr.						HVAC FAN	SYSTEMS - HERS VER	HICATION			_						2-		7.		
District Syste		n/a	Disting	No	1.			ī	ri .						02					01		
89.00	mm.2							Ni	me				7	Varified P	nii Wint D	raw			Requir	ed Fan Efficed	(Watts/CFM)	
								TIME Fait	1 beci-tec					Not	Bequired					0		
	OR				04																	
Nur	mber o	if Units	_	He	ating Elfidenc	y .																
	1.				A101-95																	
_					-																	
-		06		07		00																
y sitti		Zonally Control	led	Mulit-spani Compresso		SVerification																
5		Not Zonal	4	Single Speni		g Companient hers cool																

CERTIFICATE OF COMPLIANCE

Calculation Description: 18te 24 Analysis

213 Attribucia	9/28/21	
Address: 38 North Almaden Blvd., Unit 913	C37215	
Cny/state/file: San Jose, CA 95110	9hunai 612-481-2293	
केसी बक्कारी अध्य करें। एवं	012-901-2235	

Calculation Date/Time: 2021-09-28T09:25:26-07:00

Input File Name: San Benito Ave Addition (517).ribd19x

CLAZ HERS Certification Identification III applicables

R16-06-10042

CERTIFICATE OF COMPLIANCE

Calculation Description: Title 24 Analysis

JOHN GUTKNECHT

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Timothy Carstairs, CEA, HERS, GPR

2238 Bayview Heights Drive, Suite E

RESIDENT	THE MILES					_				RMS-1
Project Name San Benito Ave	e Addition		Build	ding Type		ngle Fam Ilti Famil		Addition Alone Existing+ Addition	on/Alteration	9/28/202
Project Address	- NO. 1	0240V		fomia En			Total	Cond Floor Area		# of Units
517 San Benite		os Gatos	0	A Clim				1,290	494	1
INSULATION				color.	Area					
Construction			Cav		(ft²)		peci	al Features		Status
	remed w/Crawl.5	pace		sulition .	79	_				Existing
Wall Wood F				sulation	15					Existing
Door Opaque				sulation	2	_				Existing
Wall Wood F				sulation sulation	16					Existing
			- no in	sulation		_	-			Existing
	remed Attic		37.101	sulation	79	_				Existing
Demising Wood F Floor Wood F	-		- no m	sumbon	49					New
FENESTRAT	ramed w/Crawl 5			1	_			Dec. of the Con-	(Visa 7	New
Orientation	777.17	U-Fac	SHGC	Over		Side	3.6 % fins	Exterior Sh		0.30 Status
Front (E)	64.0	0.300	0.23	none		none		AUA.		Altered
Right (N)	32.0	0.300	0.23	nage		none		ALA.		Altered
Left (S)	24.0	0,300	0.23	none		none		N/A		New
Rear (W)	43.0	0,300	0.23	none		none		N/A		New
Right (N)	120	0.300	0.23	none		none		NA.		New
HVAC SYSTI	- 1 - 7 · 1	Min C	£ 6.	-En-			- Ess			Status
Qty. Heatin	g	Min. E		poling	al Marian		n. Eff		ermostat	Status
	g	Min. E		ooling M Ay Con	iditióner		n. Eff	The Setbic		Status Exiating
Qty. Heatin	g			-	iditióner					
Qty. Heatin	g umaçe			-	iditióner			Setbac	A	
Qty. Heatin	eg umuce RIBUTION	95% AFU	E Spi	lit Air Con	. T	15.0	SEER	Setbac		Existing
Qty. Heatin	eg umuce RIBUTION	95% AFU	E Spi	n Air Con	. T		SEER	Setbac	Duct	
Qty. Heatin Central Fi	g white RIBUTION He	95% AFU	E Spi	n Air Con	Du	15.0	SEER	Setbac	Duct R-Value	Existing Status
Qty. Heatin Central Fi	rig utrace RIBUTION He Ducte	95% AFU	E Spi	n Air Con	Du	15.0	SEER	Setbac	Duct R-Value	Existing Status
Qty. Heatin t Central Fi HVAC DISTR Location HVAC System	rig utrace RIBUTION He Ducte	95% AFU ating	E Spi	n Air Con	Du	15.0	ation	Setbac	Duct R-Value	Existing Status
Qty. Heatin Central Fi Central Fi HVAC DISTR Location HVAC System WATER HEA	rig utrace RIBUTION He Ducte	95% AFU ating	C o	poling	Du	15.6	ation	Setbac	Duct R-Value	Status Altered
Qty. Heatin Central Fi Central Fi HVAC DISTR Location HVAC System WATER HEA	rig utrace RIBUTION He Ducte	95% AFU ating	C o	poling	Du	15.6	ation	Setbac	Duct R-Value	Status Altered

	IDENTIAL MEA	SURES SU	2.51.535				RMS-
	enito Ave Addition	14-11	Building Typ	☐ Multi Fa		ition/Alteration	9/28/202
Project /		ne Cathe		nergy Climate 2o		ea Addition 494	# of Uni
	an Benito Avenue L	os Galos	CM CIII	nate Zone 0- Area	1,290	494	1
777.7	truction Type		Cavity	(ft²)	Special Feature		Status
Wall	Wood Framed		R 15	48	opecial reature		New
Wall	Wood Framed		R 15	176			New
Wall	Wood Framed		R 15	219			New
Door	Opaque Door		- no insulation	1577			New
Wall	Wood Framed		R 15	68			New
Roaf	Wood Framed Attic		R 30	494 Co	ol Roaf		New
CENE	STRATION	Tiess			GDZT-	Wis 7	7.00
	ntation Area(ft²)	U-Fac Sh		ng Percentage:	13.6 % New/Altered A	verage U-Factor.	Status
	manual samples			rinarity with			
	C SYSTEMS Heating	Min. Eff	Cooling	1	Min. Eff Th	hermostat	Status
1.7	DISTRIBUTION	eating	Cooling	Duct Le	ocation	Duct R-Value	Status
	ER HEATING						

	esdential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the committees approximate appro
Building Envelop	pe Measures:
§ 1106(a)1	Air Leakage, Manufactured femestration, witerior doors, and extendr pet doors must limit air (eekage 10.0.3 CFM per square foot or less; when tested per NFRC-400, ASTM E263 or AANAMOMA/CSA 101/LS 2/A440-2011.*
§ 110 6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111 (a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and sitter herit gain confliction (SNGC) values from Tableti. 110.6-A, 110.6-B, or JA4.5 for extenior doors. They must be cautked and/or weather-stripped.*
§1107	Air Leakage. All joins, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulled, pasketed, or weather shipped.
\$1100(n)	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affeirs, Bureau of Household Goods and Services (BHGS).
\$110B(g)	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110 8(g)
§ 110.80):	Roofing Products Solar Reflectance and Thermal Emittance. The Ihermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 140.8() and be labeled per §10-113 when the installation of a cool roof is specified on the CFTR.
§1108(j)	Radiant Barrier, When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affai
§ 150 O(a)	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood frame ceiling on the weighted average U-factor must not exceed 0.043 Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof all-ration. Altio access doors must have permanently attached insulation cong adhesive or mechanical fasterers. The altic access must be pasketed to prevent an idealage. Insulation must be installed in direct confload with a continuous roof or ceiling which is seeded to limit infiltration and exitination as specified in § 110.7, including but not limited to placing insulation either above or below the roof dock or on top of a drywall ceiling.
§ 150 D(b)	Loosefill Insulation, Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c)	Wall Insulation, Minimum R-13 insulation in 244 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2.6 inch wood framing have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonity walls must meet Tables 160.1-A or 8.*
§ 150.0(d):	Raised-floor Insulation, Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U factor."
§ 150 O(f)	Slab Edge insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material atoms within facings, no greater than 0.3 percent, have a water vapor permeance no greater than 2.0 perm per inch, be protected from physical damage an UV light deterioration, and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150 D(g)1	Vapor Retarder. In climate zenes 1 through 16, the earth floor of unverted crawl space must be covered with a Class II vapor retarder. This requirement also applies to controlled vertilation crawl space for buildings complying with the exception to \$ 150.0(d).
§ 160 D(g)2	Vapor Retarder, In-climate zones 14 and 16, e Class I in class II vegor retarder must be installed on the conditioned space side of all insulation in all edepor wide, vented affics, and unverted affics with an exeminable insulation. Fenestration Products, Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a
\$ 150 D(q):	maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58."
Fireplaces, Deco	rative Gas Appliances, and Gas Log Measures:
§ 110.5(e)	Pilot Light. Continuously burning pilol lights are not allowed for indoor and outdoor limptaces
§ 150 D(e)1	Closable Doors. Masonly or factory-built fireplaces must have a clusable metal or glass door covering the entire opening of the firebox
§ 160.0(e)2	Combustion Intake, Masomy or factory-built freplaces much have a combustion outside an infake, which is at least are equipment in prea- and is equipped with a readily accessible, eperable, and light-filling damper encombustion-ascontrol device."
§ 150 0(e)3.	Flue Damper, Masorry or factory-built fireplaces must have a flue damper with a readily accessible control."
Space Condition	ing, Water Heating, and Plumbing System Measures:
§1100§1103	Certification, Healing, verifiction and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission*
§1102(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-Although Table 110.2-K.*
§ 110.2(b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat grupps with supplementary electric resistance heaters, must have controls that prevent supplementary heater operation when the heating load can be mel by the heat pump atone, and in which the cut-on temperature for supplementary heating, and the cut-off temperature for supplementary heating, and the cut-off temperature for supplementary heating.
§ 1102(c)	Thermostats. All heating or cooling systems not controlled by a central wnergy management control system (EMCS) must have a selback lihermostat."
§ 110,3(c)4	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heding recirculation loops serving multiple dwelling units must med the air release valye, backflow prevention, pump printing, pump isolation valve, and recirculation loop connection requirements of \$ 110 Sight.
§ 110.3(c)6	. Isolation Valves. Instantaneous water heaters with an input rating greater than 68 lictureer hour (2 kW) mum have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flusting the water heater when the valves are closed.
\$1105	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan lype central furnaces, household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heater
§ 150.0(n)1	Building Cooling and Heating Loads, Heating and/or cooling forable are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume, the SMACINA Residential Conflort System Installation Standards. Manual, bittle ACCA Manual Jusing despire conditions sprotegied in 5 150 Otto.

E HEO OWIDA	Clearances. Air conditioner and heat pump outdoor condensing units must have a dearance of at least five feet from the outlint of any dryer
§ 150 0(H)3A	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with figuid line filter chers if required, as specified by the
§ 150 D(N)3B	manufacturer's instructions Storage Tank insulation. Unfined hat water tanks, such as storage fanks and backup storage tanks for solar water-heating systems, must have
§ 150.001:	a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank
§ 150.0 W2A	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Installation. All domellic hot water pang must be testallated as specified in Section 508 11 of the California Plumbing Code. In addition, the following piping-conditions must have a minimum insulation will thickness of one inch or a minimum insulation Revialue of 7.7, the first five feet of cold water pipers from the storage tank, all hot water piping with a nominal diameter equal to or greater than 3% inch and test than one inch, all hot water piping with a nominal diameter less than 34. Inch that is, associated with a domestic hat water recicculation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen follows.
s 150.0 ₀ 3	Insulation Protection. Piping insulation must be protected from damage, including that due to surlight, moreture, equipment maintenance, and wind as required by Sociolin (20.3b). Insulation exposed to weather must be water total dust and protected from LV light (no adhesive toping, Insulation covering childed value pring and refrigerant such piping located outside the conditioned space must include, or be protected by, a Class I or Class III vapor retarder Pipe insulation buried below grade must be installed in a waterproof and non-constructive carrier or some content of the content o
§ 150 D(n) I	Gas or Propane Water Heating Systems. Systems using gas or propane water heatens to serve individual dwelling units must include all of the following. A declared 1.25 volt, 20 ample electrical receptable connected to the electric panel with a 1.20/240 volt 3 conductor, 10 AWG cooper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "spare" and be electrically isolated. Have a reserved single pote circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit and labeled with the words "Future 240V Use", a Category III or IV vers, or a "Type 8 vers with straight pips between the outside termination and the space where the water heater is not alled, a condensate drain that is no more than two inches higher than the base of the water heater, and allows natural draining without pump assistance, and a gas supply line with a capacity of at least 200,000 Stuper hour.
§ 150.0(n)2	Recirculating Loops, Recirculating loops serving multiple-dwelling units must meet the requirements of § 110.3(p)5.
§ 150.0 m/3	Solar Water-heating Systems. Sider water heating systems and collectors must be certified and rated by the Solar Rating and Certification. Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that in approved by the Executive Director.
Ducts and Fans	
§1108(d3	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor initially the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
iş 150.0 (m) (CMC Compliance, All air distribution system dusts and plentums must meet the requirements of the CMC §§ 601.0, CDC 8, 03.0, CDA 9, CDA
§ 150.0 (m)2	Factory-Fabricated Duct Systems. Fectory lathicited duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seams of duct systems and their components must not be spaled with cloth back nubber adhesive duct tapes unless such tape is used in combination with master and draw bands.
§ 150,0 (m)3	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for pressure-sensitive lapes, mastics, sealants, and other requirements specified for duct construction.
§ 150 0(m)7	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0 jmj8	Gravity Ventilation Dampers. Gravity ventiliating systems serving conditioned space must have attributed or modify accessible, manually operated dampers in all openings to the outside, except combustion intel and outlet air openings and deviator shall vents.
§ 150.0 (m)9	Protection of Insulation. Insulation must be protected from damage, sunlight, metature, equipment maintenance, and wind Insulation expose to weather must be suitable for outdoor senace. For example, protected by atuminum, sheet metal, power-declarates or plastic cover claular floam insulation must be praceeded as above or partied with a coation that is water relaxation and provides sheeting from solar radiation.
§ 150 Q(m)10:	Porous Inner Core Flex Duct. Porous inner core flex ducts must have a non-porous layer between the inner core and outer vapor barrier.
§ 1500 (m) 11	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as continued through field verification and diagnostic testing, in adcordance with \$150 (high)11 and Reference Readestrial Appendix (RAd.).
§ 150.0 jmj t2	Air Filtration. Space conditioning systems with ducts exceeding 10 (set and the supply side of vertilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inchif scred per Equation 150.0-A. Pressure drops and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service.*
§ 150.0(m) 13	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply coding must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be a 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy < 0.45 wilds per CFM for gas furnace air handlers and < 0.59 waits per CFM for all others. Small duct high velocity systems must provide an airflow < 250 CFM per ton of nominal cooling capacity, and an air handling unit fan efficacy < 0.62 watts per CFM. Field verification treating in required in accordance with Reference Residential Appendix RAS 3.15.

Requirements f	or Ventilation and Indoor Air Quality:
§ 150.0(a)	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2 and Acceptable Indoor Air Quality in Residential Buildings subject to the amendment's specified in § 150 (log).
§ 150.0(a) 1 C	Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings of their dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical vertilation artifox provided determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 1500(a)10.
§ 150.0(a)1E	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical verifiation airflore provided at rat accordance with Equation 150-04 and must be eithing a behanced system or continuous supply or continuous eshabits system if a system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be < 0.3 (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential App.
§ 150 0(a)1F	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be beland ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.08. All unit within 30 perior of the unit within 80 perior
§ 150.0(o)1G	Kitchen Range Hoods, Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASRIRAE 52.2
§ 150.0(a)2	Field Verification and Diagnostic Teating. Diveling and ventilation airflow must be verified in accordance with Reference Reside Appendix RA3.7. A latchen range hold must be ventiled in accordance with Reference Residential Appendix RA3.7.4.3 to confirm rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa S	ystems and Equipment Measures:
§1104(a):	Certification by Manufacturers. Any pool or spatial healing system or equipment must be certified to have all of the following, a their that complies with the Appliance Efficiency Regulations, an on-off switch mounted outside of the healer that allows shuffing off the without adjusting the thermost at setting, a permanent weatherproof plate or card with operating instructions, and must not use steepers that the proof of the proof
\$110.4(b)1	Piping. Any pool or spa healing system or equipment must be installed with all least 35 inches of pipe between the filter and the hi dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
61104(0)2	Covers, Outdoor pools or spas that have a heat pump or gas heater must have a cover
§ 110.4(b)3	Directional inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§1105	Pilot Light. Natural gas pool and spa helders must not have a continuously burning pilot light
§ 150 D(p)	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for purple, piping fillers, and valves."
Lighting Measu	res:
\$1109	Lighting Controls and Components. All lighting control devices and systems, bullests, and luminaires must meet the applicable of § 110.9."
§ 150.0(4)1A	Luminaire Efficacy. All installed luminaires must nieet the requirements in Table 150.0-A
§ 1500(k)18	Blank Electrical Boxes. The number of electrical boxes that are more than two feet above the finished floor and do not contain a other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmor washing some fan speed control.
§ 150,0(41.5	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for insulation labeling; air leakage, sealing, maintenance, and socket and light source as described in § 150 0(i) 1C.
§ 150.0(i) ID	Electronic Ballasts for Fluorescent Lamps, Ballasts for fluorescent lemps reted 13 wats or greater must be electronic and must output frequency no less than 20 kHz.
§ 150.0(n)1E	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150 0-4 controlled by Vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 luminary.
§ 150 0 (N) 1F	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufactured in kitchen exhaumust meet the applicable requirements of § 150.0(k)."
§ 150 0 (N)1 G	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JAB*
§ 150.0701H	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the lamperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150 0 (N) 11	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not recomply with Table 150 0.A or be controlled by waxancy sensors provided that they are raied to consume no more than 5 walts of prove than 150 tumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closets.
§ 150.0(k)2A.	Interior Switches and Controls. All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A
§ 150.0(k)28	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2C	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manual turned ON and OFF.*
§ 150.0(k)2D	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
6 150.0 (A)2E	Interior Switches and Controls, Controls must not bypass a digmen, occupant sensor, or vacancy sensor function if the control is comply with § 150.0(a).
\$ 150.0 M2F	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9

§ 150 0(1)2G	Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it provides functionally of the specified portrol according to § 1109 is, meets the installation Gentificate impurements of § 130 A, meets the EMCS requirements of § 130 Q(e), and meets all other requirements of § 150 Q(e).
§ 150.0(k)2H	Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150 0(k) if it provides the functionality of a dimmer according to § 1.10.9, and comples with all other applicable requirements in § 150.0(k).
§ 150.0(i)2)	Interior Switches and Controls. In halfmoore, garages, (aundy norms, and utility norms, at least one luminate in each of these spaces must be controlled by an occupant serior or a vectory serior providing automatic off functionality. If an occupant serior is (retailed, if must be initially configured to manufact on operation using the manufact operation of 150 DR)2C.
§ 150.0(i)2J	Interior Switches and Controls. Luminaries that are or contain light sources that meet Reference Joint Appendix JAB requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls."
§ 150.0(A)2K	Interior Switches and Controls. Under catalret lighting must be controlled separately from ceiling installed lighting systems.
§ 150 0(n)3A	Residential Outdoor Lighting. For single-family residential buildings, auddoor lighting permanently incurried to a residential building, or to other buildings on the same bd, must meet the requirement in term § 150 0)(3)34 (ON and OFF switch) and the requirement is malter § 150 0)(3)34 (add protocol and other amotion sensor or audomatic time switch bordrol) or \$ (50 0)(3)34 (add protocol and time cloth), or an EMCS.
§ 150.0(n)36	Readential Outdoor Lighting. For lownes residential buildings with four or more deelling units, outdoorlighting for private patios, enfrances, belonies, and purches, and readential parking lots and carports with less than eight whicles per site must comply with either § 150 0(k)3A or with the applicable requirements in Sections 1 (0.9, 13.02, 13.04, 140.7, and 141.0.)
§ 150.0(n)3C	Residential Outdoor Lighting. For flow his residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a total or eight or more vehicles per site and any outdoor lighting not regulated by § 150.0(x)38 or § 150.0(x)30 must compty with the applicable requirements in Sections 1109, 1300, 1302, 1304, 1407 and 1410.
§ 150.0(44	Internally illuminated address signs. Internally illuminated address signs must comply with § 140.6, or must consume no more than 5 walls at power as determined according to § 1300(c).
§ 150 0 (N)5	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential parages in Sections 1109, 1300, 1301, 1304, 1406, and 1410.
§ 150 0 py6A	Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building expass 20 percent or less of the floor area, permanently included lighting for the interior common areas in final building in the becomply with Taker 1900-A and be controlled by an occupant sensor.
§ 150.0(i)68	common area in a single building equals more than 20 percent of the floor area, permanently installed lighting for the interior common areas in that building must. (Comply with the applicable requirements in Sections 1109, 1300, 1301, 140,6 and 141.0), and i. Lighting installed in comdons and statined is must be controlled by cocupant sensors that reduce the lighting power in each space by at least. 50 percent. The occupant sensors must be capable of furning the light fully on and off from all designed paths of ingress and agress.
Solar Ready Bul	(dings:
§ 1 10 10(a)1	Single Family Residences. Single family residences located in subdivisions with 10 or more single family residences and where the application for a tentalive subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photocollac system installed, must comply with the requirements of \$110 10(b) through \$110 10(b)
§ 1 (0.10(a)2	Low-rise Multifamily Buildings, Low-rise multi-family buildings that do not have a photovollaic system installed must comply with the requirements of § 110 10(b) through § 110 10(d).
§ 110 10;6:11	Minimum Solar Zone Area. The solar zone must have a minimum lotal area as described below. The solar zone must comptly with access, pathway, smoke vimiliation, and spacing frequirements as specified in 1 file 34, Part 9 or other parts of 11te 24 on in any requirements adopted by a local jurisdiction. The solar zone total area may be comprised of areas that have no dimension less than 50 square feet each for buildings with roof areas less than 10,000 square feet on the root or central parts in 180 square feet each for buildings with roof areas greater than 10,000 square feet. For single family resistences, the solar zone must be located on the root or central got the building and have a lotal area in less than 250 square feet. For lower grait, family buildings the solar zone must be located on the root or overhang of the building, or on the root or overhang of another structure located within 250 final of the building, or on the root or overhang of another structure located within 250 final of the building, or on the root or overhang of another structure located within 250 final of the building, or on the root or overhang of another structure located within 250 final of the building, or on the root or overhang of another structure located within 250 final of the building, or on the root or overhang of another structure located within 250 final of the building and skipting area. The solar zone requirement is applicable to the entire building, including miscal occupancy.
§ 110.10(b)2	Azimuth. All sections of the solar zone located on steep-sloped roofs must be oriented between 90 degrees and 300 degrees of true north.
AE(d)01 011 @	Shading. The solar zone must not confain any obstructions, including but not limited to vertil chrimeys, architectural features, and roof mounted equipment."
§ 1 10 10(b)3B	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the received point of the additional programment of the property of the programment of the programm
§ 710 10(b)A	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the injustural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ [10.10(a)	Interconnection Pathways. The construction documents must induste a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to this point of interconnection with the interincal service, and for single family residences and central water-healting systems, a pathway reserved for routing plumbing from the solar zone to the water-healting system.
§ 110.10(d)	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant.
§ 110 10(e)1.	Main Electrical Service Panel. The main electrical service panel must have a minimum faisher rating of 200 amps.
	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit

San Benito Ave A System Name HVAC System ROOM LOAD SUN	ddition									21		
HVAC System		San Benito Ave Addition										
ROOM LOAD SUN	HVAC System											
TOOM LONG COM	MARY								1,290			
	ROOM GOOLING PEAK COIL COOLING								PEAK COIL HTG. PEAK			
Zone Name	Room Name	Mult	CFM	Sensible	Latent	CFM	Sensible	Latent		Sensible		
Existing Living Area	Existing 1st Floor	7	401	8,194	343	401	8,194	343	470	17,563		
Vew Living Area	1st Floor Addition	1	207	4,236	213	207	4,236	213	159	5,945		
200 200 200 200 200 200 200 200 200 200	-	1		1				-		77.13		
		_										
		_										
		_										
		1				,						
		-						-				
		_			_			_				
		-		-					-			
		_			_			_				
		+										
		+			-			-	-			
		+										
		+-										
		_										
		+						-				
	-	+	-		_	-		_	-			
	-	+						_	-			
		+		-	_	-			-			
		_			_			_				
									_			
		1										
		1		-		-		-				
		+										
		+			-				-			
		+										
		+										
		1										
			_						-			
				PAGE TOT	AL I	608	12,429	555	629	23,508		
				TOTA		608	12,429	555	629	23,508		



This drawing is an instrument of service only, and is, and shall remain, the property of JTG Architects. No reproduction or other use shall be made by any person or firm without written permission of JTG Architects. Unauthorized use shall void the professional seal and signature hereon and no professional responsibility will

Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and notify JTG Architects of any discrepancies.

SAN BENITO RESIDENCE

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

02.11.21 PRE-BUILDING RE-SUBMITTAL 03.17.21 PRE-BUILDING RE-SUBMITTAL

09.08.21 BUILDING RE-SUBMITTAL

09.28.21 BUILDING RE-SUBMITTAL

01.31.22 KITCHEN & ROOF REVISION

02.11.22 BUILDING REVISION SUBMITTAL

03.02.22 BUILDING REVISION SUBMITTAL

03.10.22 BUILDING REVISION SUBMITTAL 06.03.22 BUILDING REVISION SUBMITTAL

06.10.22 BUILDING REVISION SUBMITTAL

APPROVAL STAMP



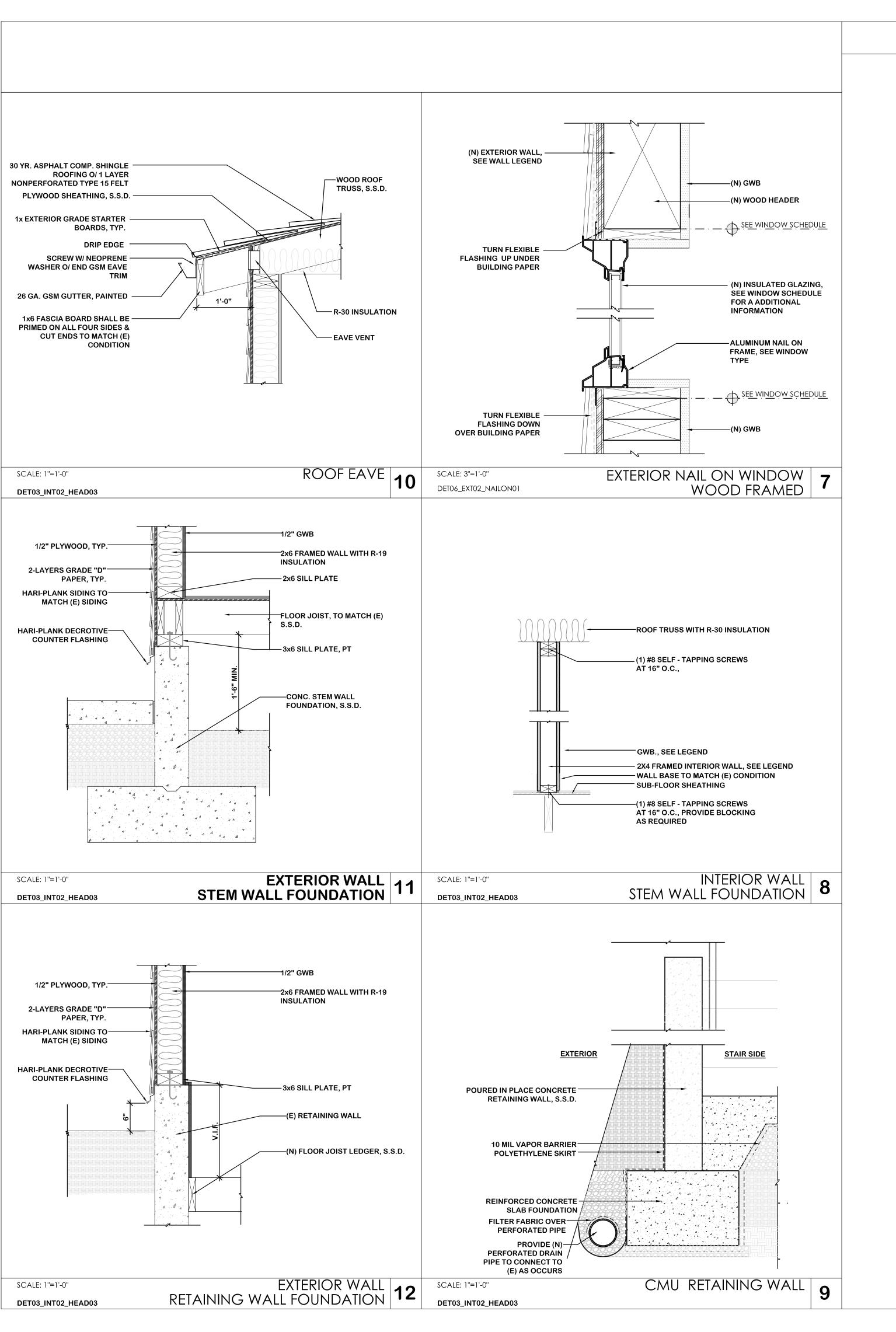
BUILDING ENERGY ANALYSIS

PLANOR 18 20 EW APPROVAL

DRAWN BY PROJECT NUMBER

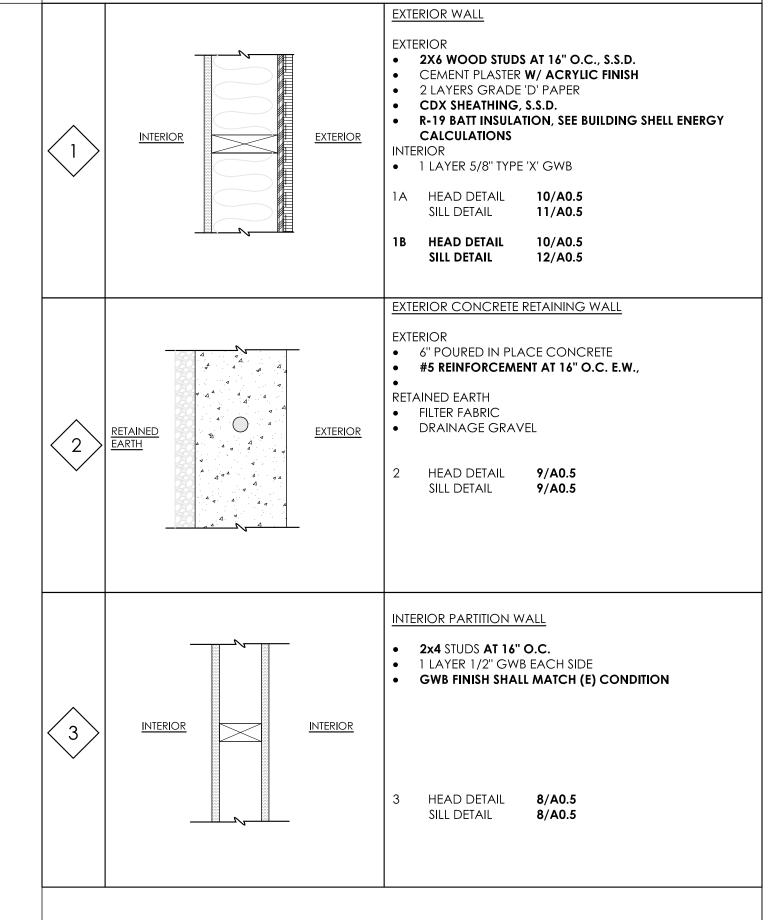
JTG 2006-1





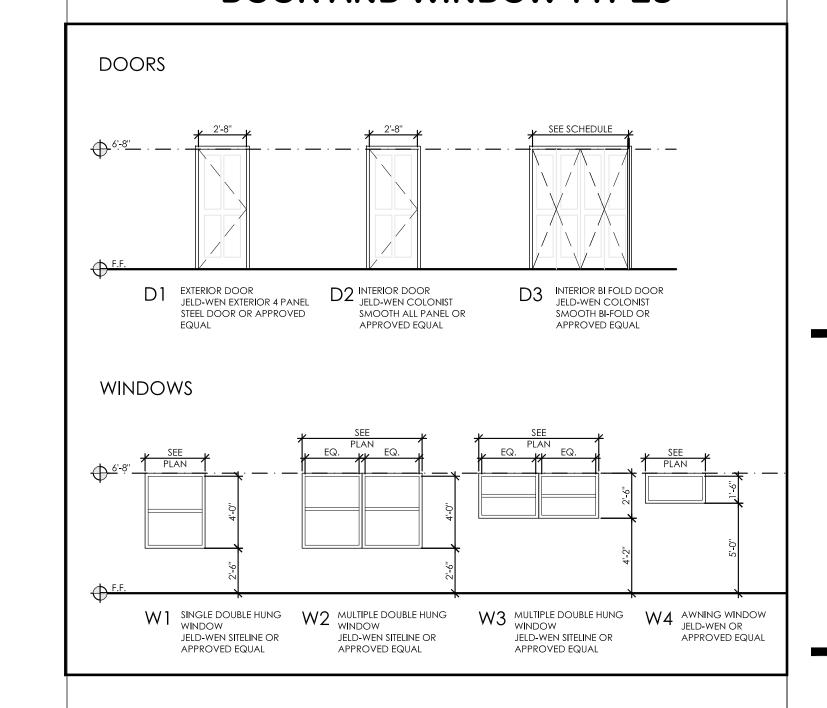
DOOR NUMBER	ROOM	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL
1	KITCHEN	2'-8" X 6'-8"	D1	GALVANIZED STEEL	FACTORY PRIMED	GALV. STEEL
2	ВАТН		D2	COMPOSITE WOOD	FACTORY	COMP.
		2'-8" X 6'-8"		SOLID CORE COMPOSITE WOOD	PRIMED FACTORY	WOOD COMP.
3	ВАТН	2'-8" X 6'-8"	D2	SOLID CORE	PRIMED	WOOD
4	CLOSET	8'-0" X 6'-8"	D3	COMPOSITE WOOD SOLID CORE	FACTORY PRIMED	COMP. WOOD
5	WALK-IN CLOSET	2'-8" X 6'-8"	D2	COMPOSITE WOOD	FACTORY	COMP.
		2-0 X 0-0		SOLID CORE COMPOSITE WOOD	PRIMED FACTORY	WOOD COMP.
6	MASTER BEDROOM	2'-8" X 6'-8"	D2	SOLID CORE	PRIMED	WOOD
7	MASTER BATH	01 011 7 01 011	D2	COMPOSITE WOOD	FACTORY	COMP.
	WASTER BATH	9'-0" X 9'-0"	UZ	SOLID CORE	PRIMED	WOOD
8	LAUNDRY & WH	6'-0" X 6'-8"	D3	COMPOSITE WOOD SOLID CORE	FACTORY PRIMED	COMP. WOOD
				Z		
WINDOW NUMBER	ROOM	WINDOW	WINDOW TYPE	NET OPENING DIMENSION	NET OPENING SF	GLAZING SF
		WINDOW SIZE 8'-0" X 4'-0"	WINDOW TYPE			┛╙
≥ Ξ	<u> </u>	≥ ∞	≯ ⊢	Zōō	ZOS	GL SF
≯ Ž	LIVING ROOM	8'-0" X 4'-0"	W ₂	200 1'-9" X 1'-9" X 4	12.2	15 24.4
1 2	LIVING ROOM BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0"	W2 W2	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4	12.2	24.4 24.4
1 2 3	LIVING ROOM BEDROOM BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0"	W2 W2 W2	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2	12.2 12.2 8.1	24.4 24.4 16.2
1 2 3 4	LIVING ROOM BEDROOM BEDROOM MASTER BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0" 3'-0" X 4'-0"	W2 W2 W2 W2 W1	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2 2'-8" X 1'-9" X 1	12.2 12.2 8.1 4.6	24.4 24.4 16.2 9.2
1 2 3 4 5	LIVING ROOM BEDROOM BEDROOM MASTER BEDROOM MASTER BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0" 3'-0" X 4'-0"	W2 W2 W2 W2 W1 W1	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2 2'-8" X 1'-9" X 1	12.2 12.2 8.1 4.6 4.6	24.4 24.4 16.2 9.2 9.2
1 2 3 4 5	LIVING ROOM BEDROOM BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0" 3'-0" X 4'-0" 3'-0" X 2'-6"	W2 W2 W2 W1 W1 W1	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2 2'-8" X 1'-9" X 1 2'-8" X 1'-9" X 1	12.2 12.2 8.1 4.6 4.6 5.5	24.4 24.4 16.2 9.2 9.2 11
1 2 3 4 5 6 7	LIVING ROOM BEDROOM BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0" 3'-0" X 4'-0" 6'-0" X 2'-6" 2'-0" X 1'-6"	W2 W2 W2 W1 W1 W3 W4	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2 2'-8" X 1'-9" X 1 2'-8" X 1'-9" X 1 2'-9" X 1'-0" X 2 1'-4" X 0'-5" X 1	12.2 12.2 8.1 4.6 4.6 5.5	24.4 24.4 16.2 9.2 9.2 11 1.0
1 2 3 4 5 6 7 8	LIVING ROOM BEDROOM BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM MASTER BEDROOM KITCHEN	8'-0" X 4'-0" 8'-0" X 4'-0" 5'-0" X 4'-0" 3'-0" X 4'-0" 6'-0" X 2'-6" 2'-0" X 1'-6" 8'-0" X 2'-6"	W2 W2 W2 W1 W1 W3 W4 W4	1'-9" X 1'-9" X 4 1'-9" X 1'-9" X 4 2'-4" X 1'-9" X 2 2'-8" X 1'-9" X 1 2'-8" X 1'-9" X 1 2'-9" X 1'-0" X 2 1'-4" X 0'-5" X 1 1'-9" X 1'-0" X 4	12.2 12.2 8.1 4.6 4.6 5.5 .5	24.4 24.4 16.2 9.2 9.2 11 1.0

DOOR & WINDOW SCHEDULE



WALL LEGEND

DOOR AND WINDOW TYPES





This drawing is an instrument of service only, and is, and shall remain, the property of JTG Architects. No reproduction or other use shall be made by any person or firm without written permission of JTG Architects. Unauthorized use shall void the professional seal and signature hereon and no professional responsibility will remain.

Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and notify JTG Architects of any discrepancies.

SAN BENITO RESIDENCE

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

02.11.21 PRE-BUILDING RE-SUBMITTAL

03.17.21 PRE-BUILDING RE-SUBMITTAL

09.28.21 BUILDING RE-SUBMITTAL

09.08.21 BUILDING RE-SUBMITTAL

01.31.22 KITCHEN & ROOF REVISION

02.11.22 BUILDING REVISION SUBMITTAL

03.02.22 BUILDING REVISION SUBMITTAL

03.10.22 BUILDING REVISION SUBMITTAL

06.03.22 BUILDING REVISION SUBMITTAL

06.10.22 BUILDING REVISION SUBMITTAL

APPROVAL STAMP



SCHEDULES & DETAILS

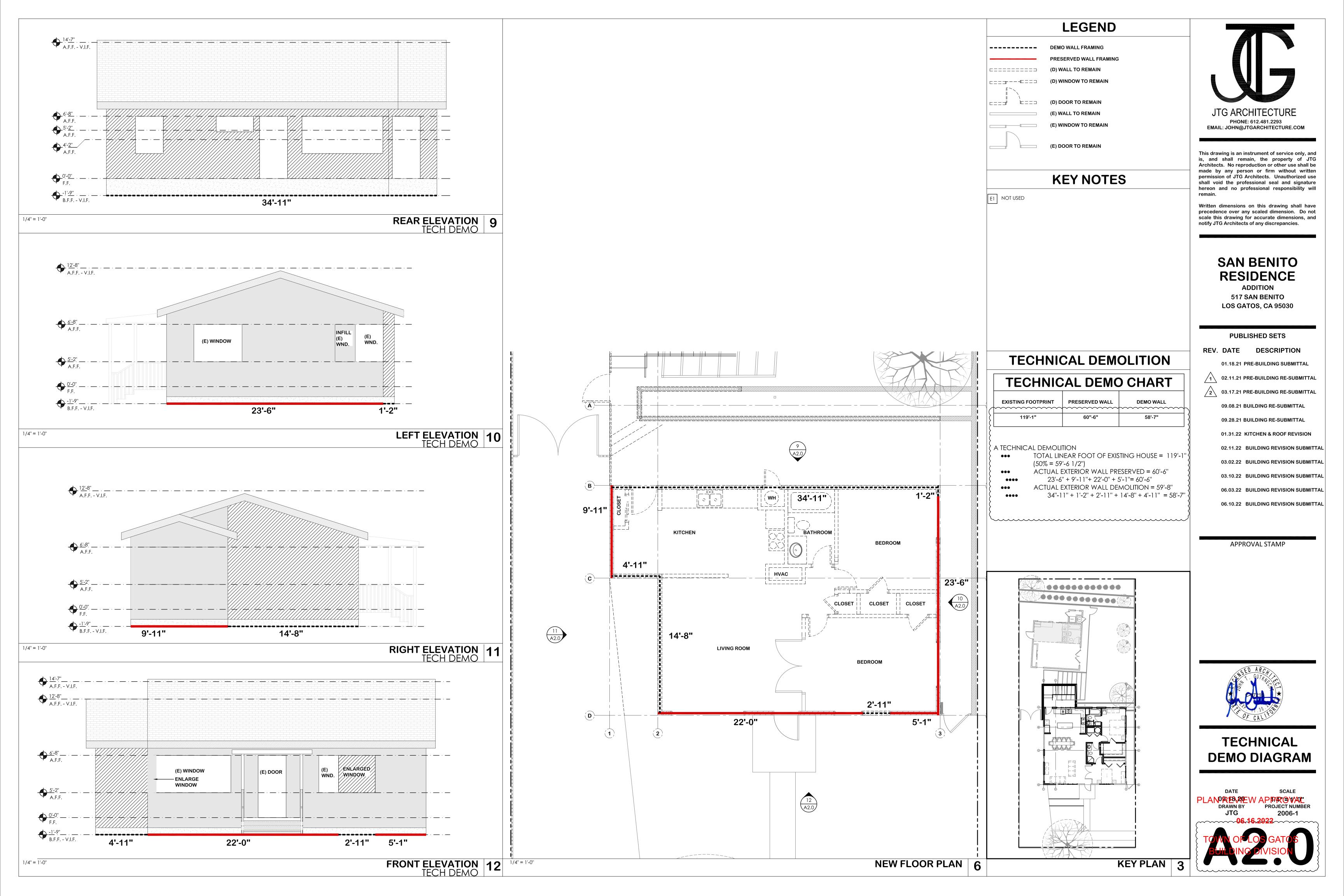
PLANOPES PROVAL

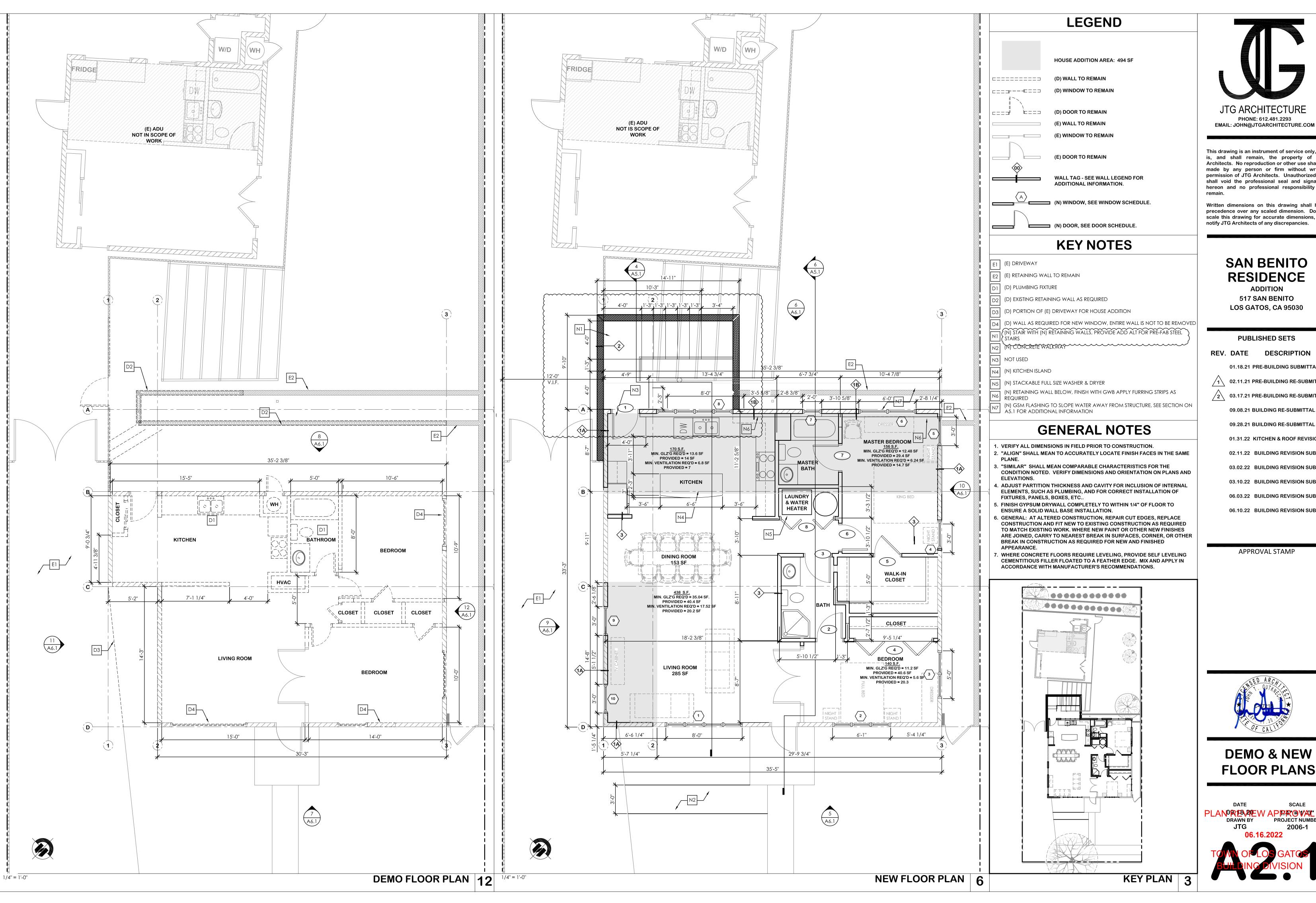
DRAWN BY PROJECT NUMBER

JTG 2006-1

06.16.2022







JTG ARCHITECTURE

This drawing is an instrument of service only, and is, and shall remain, the property of JTG Architects. No reproduction or other use shall be made by any person or firm without written permission of JTG Architects. Unauthorized use shall void the professional seal and signature hereon and no professional responsibility will

PHONE: 612.481.2293

Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and

SAN BENITO RESIDENCE

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

02.11.21 PRE-BUILDING RE-SUBMITTAL

03.17.21 PRE-BUILDING RE-SUBMITTAL

09.08.21 BUILDING RE-SUBMITTAL

09.28.21 BUILDING RE-SUBMITTAL

01.31.22 KITCHEN & ROOF REVISION

02.11.22 BUILDING REVISION SUBMITTAL

03.02.22 BUILDING REVISION SUBMITTAL

03.10.22 BUILDING REVISION SUBMITTAL

06.03.22 BUILDING REVISION SUBMITTAL

06.10.22 BUILDING REVISION SUBMITTAL

APPROVAL STAMP



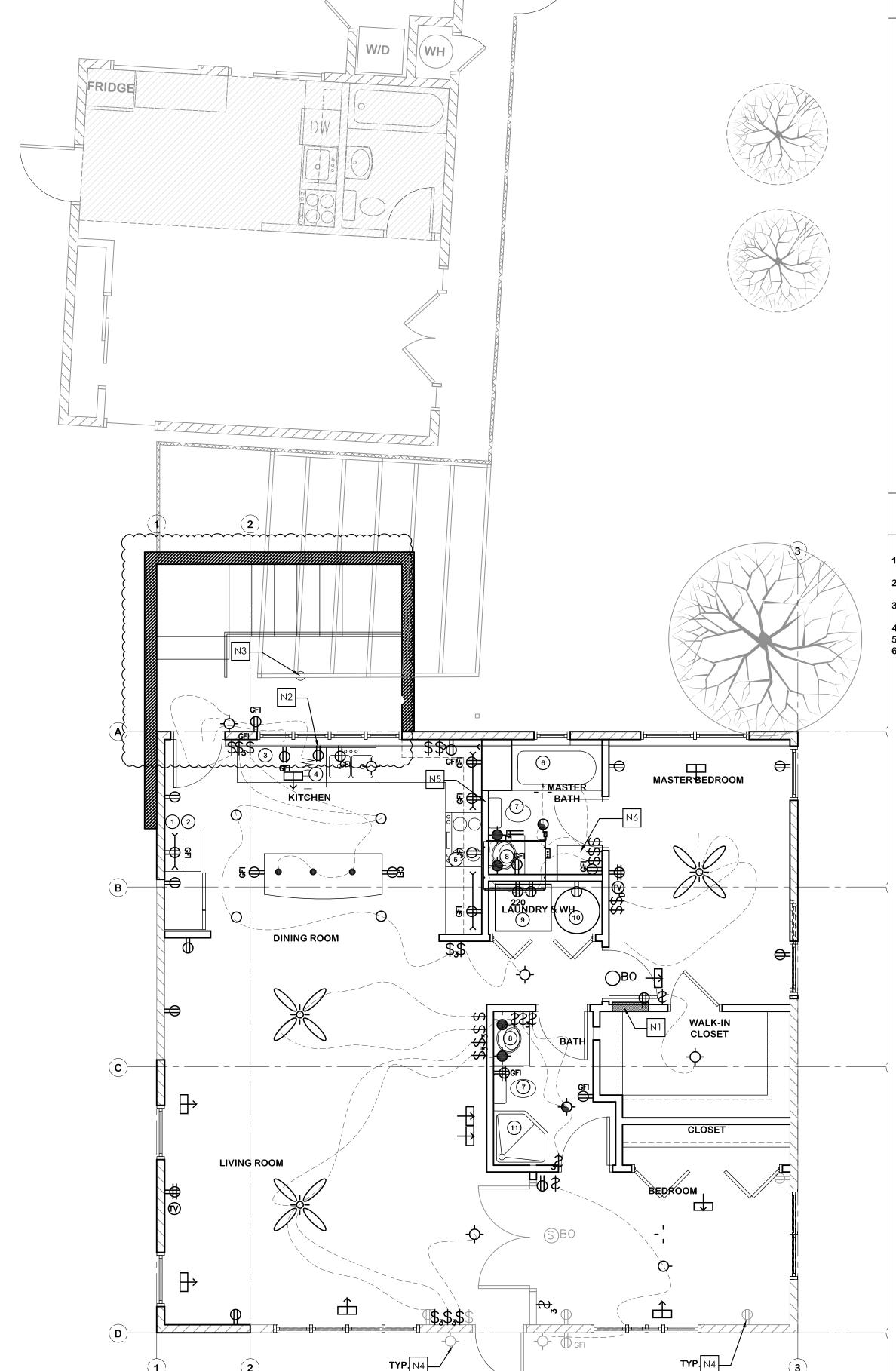
DEMO & NEW FLOOR PLANS

PLANORIENZIEW APPRIOWAL DRAWN BY JTG



ELECTRICAL, PLUMBING, MECHANICAL NOTES:

- 1. REVIEW THE LOCATIONS OF SWITCHES, OUTLETS, LIGHTS, ETC. WITH THE OWNER AT THE TIME OF BOX ROUGH IN PRIOR TO FINAL WIRING.
- 2. CONTRACTOR TO PROVIDE HEATING DUCT LAYOUT TO OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION
- 3. ALL RECEPTACLES IN BATHROOM, KITCHEN, LAUNDRY, GARAGE, UTILITY, OUTDOORS AND CRAWL SPACE TO BE GFI PROTECTED. SEE CEC 210-8(A).
- 4. PROVIDE RECEPTACLES AT KITCHEN COUNTER SO THAT NO POINT IS MORE THAN 24" FROM A RECEPTACLE (INCLUDING ISLANDS AND BAR TYPE COUNTERS). KITCHEN PENINSULA COUNTER TOP SHALL HAVE RECEPTACLES INSTALLED SO THAT NO POINT ALONG THE CENTERLINE OF THE LONG DIMENSION IS MORE THAN 24 INCHES (48" ON CENTERS) MEASURED HORIZONTALLY FROM A RECEPTACLE IN THAT SPACE. THESE RECEPTACLES SHALL BE INSTALLED ABOVE, OR WITHIN 12" BELOW THE COUNTER TOP ON THE KITCHEN SIDE. A PENINSULA COUNTER TOP IS MEASURED FROM THE CONNECTING EDGE.
- 5. ALL RECEPTACLES IN KITCHEN TO BE GFI PROTECTED.
- 6. PROVIDE SEPARATE CIRCUITS FOR DISHWASHER, GARBAGE DISPOSAL, MICROWAVE,
- REFRIGERATOR AND TRASH COMPACTOR. 7. MINIMUM TWO SMALL 20 AMP. APPLIANCE CIRCUITS FOR KITCHEN.
- 8. PROVIDE RECEPTACLES ON ALL WALLS 2' AND GREATER, WITHIN 6' OF DOORS, 12' ON CENTER (INCLUDING FIXED PORTIONS OF SLIDING GLASS DOORS, ETC.) AND ONE PER 10' OF HALLWAY. ALL RECEPTACLES IN GARAGES TO BE GFI PROTECTED.
- 9. 24" MINIMUM OFFSET BETWEEN OUTLETS ON OPPOSITE SIDE OF GARAGE-TO-HOUSE OCCUPANCY SEPARATION WALLS.
- 10. PROVIDE SINGLE STATION SMOKE ALARM MOUNTED ON CEILING OR WALL AT A POINT CENTRALLY LOCATED IN CORRIDORS OR AREAS GIVING ACCESS TO ROOMS FOR SLEEPING PURPOSES, AND IN EACH SLEEPING ROOM. FOR SLEEPING ROOMS ON AN UPPER LEVEL, THE SMOKE ALARM SHALL BE PLACED AT THE CENTER OF THE CEILING DIRECTLY ABOVE THE STAIRWAY. ALARMS OR ALL DETECTORS SHALL BE AUDIBLE AT THE LIVING AREAS. A MINIMUM OF ONE SMOKE ALARM IS REQUIRED ON EACH FLOOR. SEE CRC R314.3 THROUGH CRC R314.5 FOR POWER SOURCE REQUIREMENTS.
- 11. LIGHTS IN CLOSETS SHALL HAVE THE FOLLOWING CLEARANCES TO COMBUSTIBLES/SHELVES: a. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE AN ENCLOSED BULB AND SHALL BE
- MINIMUM OF 12" FROM THE NOSING OF SHEVLVING.
- b. FLUORESCENT FIXTURES AND RECESSED FIXTURES TO HAVE MINIMUM 6" CLEARANCE.
- 13. ALL RECESSED CAN LIGHTS IN INSULATED CEILINGS TO BE ICAT RATED AND COVERED WITH A FULL BLANKET OF INSULATION. CANS SHALL BE CAULKED SEALED TO SHEETROCK OR PROVIDED WITH AN AIR-TIGHT GASKETED RIM.
- 14. PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICES ON ALL HOSE BIBBS. 15. PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE FOR WATER HEATER(S) TO TERMINATE
- OUTSIDE OF THE BUILDING WITHOUT BEING TRAPPED.
- 16. PROVIDE EXPANSION TANK FOR THE WATER HEATER. 17. PROVIDE SEISMIC STRAPPING AT THE WATER HEATER. SEISMIC ANCHORAGE OF WATER HEATER TO INCLUDE ANCHORS OR STRAPS AT POINTS WITHIN THE UPPER AND LOWER ONE THIRD OF ITS VERTICAL DIMENSION, THE LOWER ANCHOR OR STRAP BEING LOCATED TO MAINTAIN A MINIMUM DISTANCE OF 4 INCHES ABOVE THE CONTROLS. SEE CPC.
- 18. DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND
- SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER AND A MINIMUM 3' AWAY FROM ANY OPENINGS. 19. DRYER TO VENT OUTSIDE OF BUILDING AND BE A MAXIMUM 25' IN LENGTH WITH 2.5 FEET REDUCTIN FOR EACH 45 DEGREE ELBOW AND 5 FEET REDUCTION FOR EACH 90 DEGREE ELBOW.
- 20. DEDICATE A 30 AMP. BRANCH CIRCUIT FOR LAUNDRY ROOM (TO SERVE NO OTHER AREAS). CEC
- 21. PROVIDE INDIVIDUAL PRESSURE BALANCE OR TEMPERATURE CONTROL VALVES AT EACH SHOWER
- OR TUB/SHOWER.
- 22. PROVIDE DEDICATED CIRCUIT FOR FORCE AIR UNIT 23. FUEL GAS PIPING FOR THE WATER HEATER AND FURNACES SHALL COMPLY WITH CMC.
- 24. HIGH EFFICACY LUMINAIRES SHALL CONTAIN ONLY HIGH EFFICIENCY LAMPS. TO DETERMINE THE MINIMUM LAMP EFFICACY CATEGORY, ONLY THE WATTS OF THE LAMP (NOT THE BALLAST) CAN BE
- CONCIDERED. [SECTION 150(k)1 OF 2008 BUILDING ENERGY EFFICIENCY STANDARD]. 2010 CALIFORNIA ENERGY CODE.
- 25. EXTERIOR LIGHTS SHALL BE MARKED SUITABLE FOR WET USE. CEC 410.10(A).
- 26. SEPARATE 20-AMP BRANCH CIRCUIT(S) SERVING BATHROOM OUTLETS PER CEC 210.11(C)(3). 27. APPROVED AIRGAP FITTING AT DISHWASHER TO WASTE CONNECTION PER CPC.
- 28. COMBUSTION AIR OPENING SIZES AND LOCATIONS AT MECHANICAL ROOM SHALL COMPLY WITH CMC 701 THROUGH CMC 707 AND CPC 507.1.1 FOR FURNACE AND WATER HEATER. 29. LIGHT FIXTURES IN TUBS OR SHOWERS SHALL BE LABELLED 'SUITABLE FOR DAMP LOCATIONS' PER
- CEC 410.10(D). 30. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER AT ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT,
- SINGLE-PHASE, 15 AND 20 AMPERE RECEPTACLE OUTLETS INSTALLED IN DWELLING UNIT **BEDROOMS.** (2010 CEC SECTION 210.12).
- 31. PERMANENT LUMINAIRES IN KITCHEN SHALL BE HIGH EFFICACY LUMINAIRES EXCEPT IF 50% OR LESS OF THE TOTAL RATED WATTAGE OF PERMANENT LUMINAIRES ARE NOT HIGH EFFICACY AND ARE CONTROLLED BY SEPARATE SWITCHES. [EXCEPTION TO SECTION 150(k)8 OF 2008 BUILDING ENERGY EFFICIENCY STANDARDI, 2010 CALIFORNIA ENERGY CODE. LIGHTING IN AREAS ADJACENT TO KITCHEN CONSIDERED KITCHEN LIGHTING IF NOT ON SEPARATE SWITCH FROM KITCHEN
- 32. PERMANENT LUMINAIRES IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES UNLESS LUMINAIRES ARE CONTROLLED A MANUAL-ON OCCUPANCY SENSOR [EXCEPTION TO SECTION 150(k)10 OF 2008 BUILDING ENERGY EFFICIENCY
- STANDARD]. 2010 CALIFORNIA ENERGY CODE. 33. PERMANENT LUMINAIRES IN ROOMS OTHER THAN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES UNLESS LUMINAIRES CONTROLLED BY DIMMER SWITCHES, MANUAL- ON OCCUPANCY SENSOR, OR LOCATED IN CLOSETS LESS THAN 70 S.F. [EXCEPTIONS 1,2 TO SECTION 150(k)11 OF 2008 BUILDING ENERGY EFFICIENCY
- STANDARD]. 2010 CALIFORNIA ENERGY CODE. 34. PERMANENT OUTDOOR LUMINAIRES MOUNTED TO THE BUILDINGS SHALL BE HIGH EFFICACY LUMINAIRES UNLESS THEY ARE CONTROLLED BY MANUAL -ON OCCUPANCY SENSOR OR LOCATED IN OR AROUND SWIMMING POOLS AND OR WATER FEATURES. [EXCEPTIONS 1,2 TO SECTION 150(k)13 OF 2008 BUILDING ENERGY EFFICIENCY STANDARD]. 2010 CALIFORNIA ENERGY CODE.
- 35. THE MAXIMUM HOT WATER TEMP. DISCHARGING FROM THE BATHTUB AND WHIRLPOOL BATHTUB FILLER SHALL BE LIMITED TO 120 DEGREE F. (CPC 415.5).
- 36. AN ILLUMINATED ADDRESS NUMBER TO BE PROVIDED VISIBLE FROM THE STREET AT THE FRONT
- PROPERTY PER CRC. 37. MAINTAIN WORKING CLEARANCE PER CEC 110.16 AT ALL SUB PANELS.
- 38. COOKTOP HOOD EXHAUST TERMINATION MUST BE 4 FEET FROM ANY WIINDOWS OR DOORS.
- 39. ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT. SINGLE PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTED. SEE CEC 210.12(B).
- 40. ALL 125-VOLT. SINGLE PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, OUTDOORS, CRAWL SPACE, UNFINISHED BASEMENT, KITCHENS AND COUNTERTOP, SURFACES WITHIN 6 FEET (1.83M) OF WET BAR SINKS OR KITCHEN SINKS, SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL. SEE CEC SECTION 210.8(A).
- 41. ALL 125-VOLT, 15- AND 20- AMPERE RECETACLE OUTLETS SHALL BE LISTED TAMPER-RESISTANT **RECEPTACLES PER CEC 406.11.**
- 42. BASE MATERIAL BENEATH SHOWER PAN SLOPED TO DRAIN AS PER CPC SECTION 411. 43. HYDROMASSAGE BATHTUB AT MASTER BATHROOM SHALL CONCORM TO CEC 680.70, GFCI PROTECTED WITH MOTOR ACCESS.
- 44. WHEN A WATER HEATER IS LOCATED IN AN ATTIC OR FURRED SPACE WHERE DAMAGE MAY RESULT FROM A LEAKING WATER HEATER, A WATERTIGHT PAN OF CORROSION RESISTANT MATERIAL SHALL BE INSTALLED BENEATH THE WATER HEATER WITH A MINIMUM THREE QUARTER (3/4) INCHE (19.1MM) DIAMETER DRAIN TO AN APPROVED LOCATION PER CPC SECTION 510.
- 45. HEATING AND COOLING EQUIPMENT GENERATING A GLOW, SPARK OR FLAME CAPABLE OF IGNITING FLAMMABLE VAPORS MAY BE INSTALLED IN A GARAGE, PROVIDED THE PILOTS, BURNERS OR HEATING ELEMENTS AND SWITCHES ARE AT LEAST 18" ABOVE THE FLOOR LEVEL PER CMC SECTION 308.



KEY NOTES

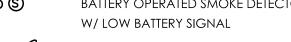
- N1 (N) ELECTRICAL PANEL
- N2 OUTLET SHALL BE UNDER COUNTER
- N3 EXTERIOR DRAIN WITH VERTICAL PERFORATED DRAIN PIPE
- N4 (E) ELECTRICAL FIXTURE, V.I.F.
- N5 (N) FURNACE LOCATION IN ATTIC
- N6 (N) ATTIC ACCESS HATCH

LEGEND

- CLG. MNT'D LIGHT FIXTURE
 - CLG. MNT'D FAN LIGHT COMBO FIXTURE
 - WALL MOUNTED VANITY LIGHTING
 - CLG. MNT'D FAN
 - 4" RECESSED CAN
 - LOW VOLT. PENDANT
 - DUPLEX OUTLET, GROUND FAULT INTERRUPTED
 - DUPLEX OUTLET
 - QUAD OUTLET
 - DUPLEX OUTLET, 1/2 W/ SWITCH OVERRIDE
 - DEDICATED CIRCUIT
 - TELEVISION CABLE HOOK UP
 - LIGHT SWITCH
 - DIMMER SWITCH
 - 3 WAY SWITCH
 - SUPPLY REGISTER

RETURN REGISTER

FLUORESCENT LIGHT FIXTURE BATTERY OPERATED SMOKE DETECTOR





GENERAL NOTES

- MECHANICAL EQUIPMENT SHALL BE LOCATED IN ROOF
- ALL REGISTER SHALL BE CEILING MOUNTED W/ REGISTER TO MATCH CEILING COLOR
- PROVIDE LIGHT NEAR HVAC EQUIPMENT AND SWITCH
- AT ATTIC ACCESS
- INSTALL AC UNITS IN ATTIC & PROVIDE DRIP PAN VERIFY ALL PHONE/DATA/TV LOCATIONS W/ OWNER
- ALL EXTERIOR LIGHTING WILL BE DOWNWARD DIRECTED WITH BULBS SHIELDED FROM NEIGHBORS VIEW

FIXTURE SCHEDULE

- 1 UPPER CABINET MICROWAVE ノ GE PROFILE
 - STYLE: 2.2 CU FT OR APPROVED EQAUL **COLOR: STAINLESS STEEL** PART NUMBER: PES7227SLSS
- RANGE
- STYLE: 5.3 CU SMOOTH SURFACE ELECTRIC RANGE OR APPROVED EQAUL **COLOR: STAINLESS STEEL** PART NUMBER: JS645SLSS
-) DISHWASHER **GE (ENERGY STAR)**
- **STYLE: DRY BOOST 48 DECIBEL** COLOR: STAINLESS STEEL PART NUMBER: GDT645SYNFS
- KITCHEN SINK STYLE: KOHLER TOCCATA 33" DOUBLE BASIN TOP MOUNT PART NUMBER: K-3847-4-NA **COLOR: 18 GAUGE STAINLESS STEEL**
- FAUCET: KOHLER BELLERA PULL DOWN KITCHEN FLOW RATE: 1.5 GPM PART NUMBER: K-560-VS GARBAGE DISPOSAL: INSINKERATOR - 3/4 HP OR APPROVED EQUAL
- REFIGERATOR J GE 24.8 CU FT FRENCH DOOR (ENERGY STAR) COLOR: STAINLESS STEEL
- PART NUMBER: GNE25JSKSS 6 TUB SHOWER
- STYLE: KOHLER ARCHER THREE WALL ALCOVE SOAKING TUB OR APPROVED EQUAL PART NUMBER: K-1946-LA-0
- **COLOR: WHITE FAUCET: KOHLER ALTEO TUB & SHOWER** FLOW RATE: 1.75 GPM PART NUMBER: K-TS45104-4G-CP
- 7 FLOOR MOUNTED TOILET
- STYLE: MISENO BELLA OR APPROVED EQUAL FLOW RATE: 1.28 GPF **COLOR: WHITE**
- PART NUMBER: MNO1500C 8 BATHROOM SINK

PART NUMBER: WKEX200HWA

- STYLE: ARCHER 22-5/8" DROP IN SINK OR APPROVED EQUAL PART NUMBER: K-3256-8-0
- COLOR: WHITE FAUCET: KOHLER CORALAIS WIDESPREAD FAUCET OR APPROVED EQUAL FLOW RATE: 1.2 GPM PART NUMBER: K-15261-4RA-CP
- 9 STACKABLE FULL SIZE WASHER DRYER LG (ENERGY STAR) STYLE: 4.5 CU FT WASHER & 7.4 CU FT DRYER OR APPROVED EQUAL PART NUMBER: K-3256-8-0 **COLOR: WHITE**
- (10) WATER HEATER STYLE: 50 GAL. PRESTIGE SMART ELECTRIC OR APPROVED EQUAL PART NUMBER: PROPE50-M2-RH92-CS
- (11) SHOWER STYLE: 36X36X72 CORNER SHOWER KIT OR APPROVED EQUAL PART NUMBER: 105545-000-129-103 **COLOR: WHITE** FAUCET: KOHLER ALTEO SHOWER FLOW RATE: 1.75 GPM PART NUMBER: K-TLS45106-4-SHOWER-CA-CP



Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and notify JTG Architects of any discrepancies.

shall void the professional seal and signature

hereon and no professional responsibility will

SAN BENITO **RESIDENCE**

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

02.11.21 PRE-BUILDING RE-SUBMITTAL

/2 03.17.21 PRE-BUILDING RE-SUBMITTAL

- 09.08.21 BUILDING RE-SUBMITTAL
- 09.28.21 BUILDING RE-SUBMITTAL
- 01.31.22 KITCHEN & ROOF REVISION
- 02.11.22 BUILDING REVISION SUBMITTAL
- 03.02.22 BUILDING REVISION SUBMITTAL
- 03.10.22 BUILDING REVISION SUBMITTAL 06.03.22 BUILDING REVISION SUBMITTAL
- 06.10.22 BUILDING REVISION SUBMITTAL

APPROVAL STAMP



MECH & ELECT FLOOR PLANS

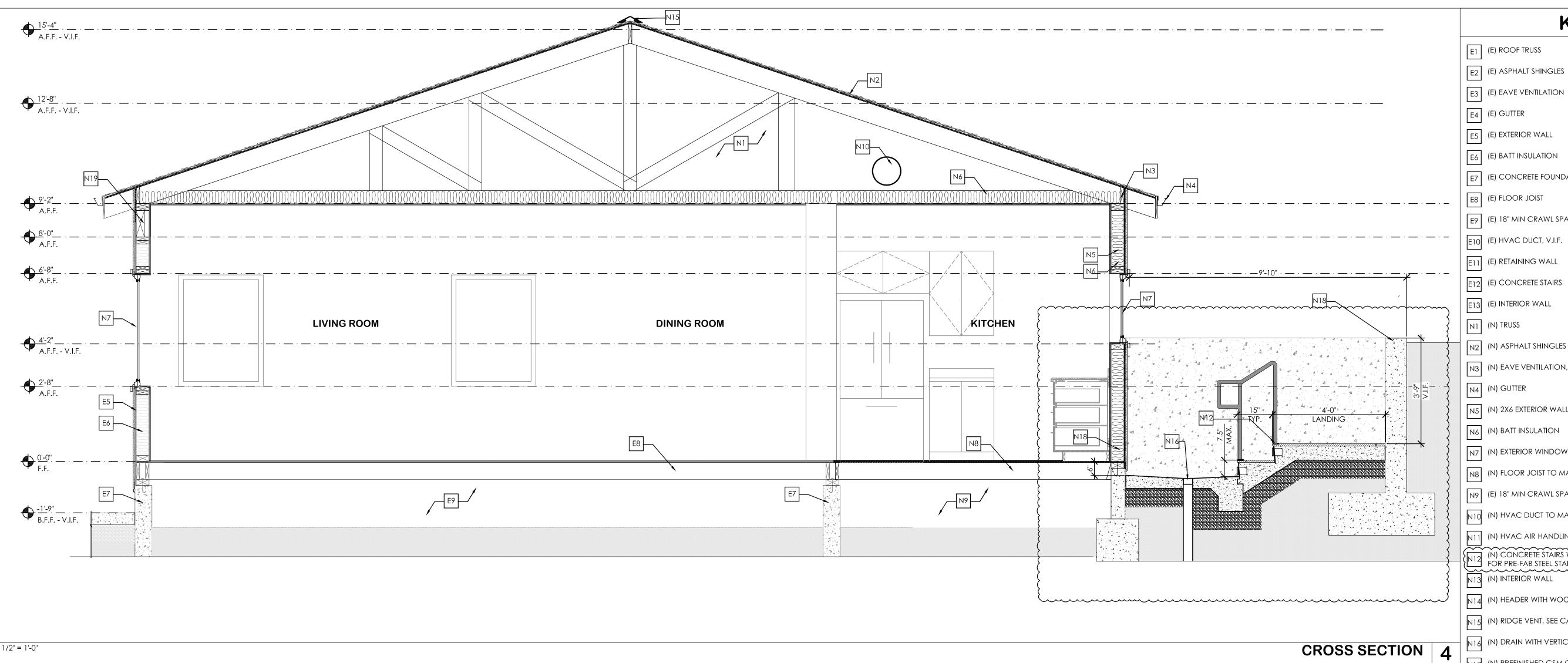
PLANORIEN/APPRICTUAL DRAWN BY PROJECT NUMBER JTG





MECH & ELECT | 6

1/4" = 1'-0"



15'-4" .__ . __ . __ N14 HALLWAY LAUNDRY **ENTRY** BEDROOM **BATHROOM** MASTER PORCH & WATER BATHROOM **HEATER**

1/2" = 1'-0"

KEY NOTES

- E1 (E) ROOF TRUSS
- E3 (E) EAVE VENTILATION
- E4 (E) GUTTER
- E5 (E) EXTERIOR WALL
- E6 (E) BATT INSULATION
- E7 (E) CONCRETE FOUNDATION
- E8 (E) FLOOR JOIST
- E9 (E) 18" MIN CRAWL SPACE
- E10 (E) HVAC DUCT, V.I.F.
- E12 (E) CONCRETE STAIRS

- N2 (N) ASPHALT SHINGLES TO MATCH (E)
- N3 (N) EAVE VENTILATION, SEE CALC BELOW FOR QUANTITY
- N5 (N) 2X6 EXTERIOR WALL
- N6 (N) BATT INSULATION
- N7 (N) EXTERIOR WINDOW
- N8 (N) FLOOR JOIST TO MATCH (E)
- N9 (E) 18" MIN CRAWL SPACE TO MATCH (E)
- N10 (N) HVAC DUCT TO MATCH (E)
- N11 (N) HVAC AIR HANDLING UNIT
- (N) CONCRETE STAIRS WITH OPTIONAL EMBEDDED LIGHTS, PROVIDE ADD ALT
- FOR PRE-FAB STEEL STAIRS N13 (N) INTERIOR WALL
- N14 (N) HEADER WITH WOOD POST AS REQUIRED
- N15 (N) RIDGE VENT, SEE CALC BELOW FOR REQUIRED LINEAR FEET
- N16 (N) DRAIN WITH VERTICAL PERFORATED DRAIN PIPE
- (N) PREFINISHED GSM COPING WITH SEALANTS AND COUNTER FLASHING
- N18 (N) RETAINING WALL, S.S.D
- N19 (N) 4X12 WITH 2X4 TOP PLATE



This drawing is an instrument of service only, and is, and shall remain, the property of JTG Architects. No reproduction or other use shall be made by any person or firm without written permission of JTG Architects. Unauthorized use shall void the professional seal and signature hereon and no professional responsibility will

EMAIL: JOHN@JTGARCHITECTURE.COM

Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and notify JTG Architects of any discrepancies.

SAN BENITO **RESIDENCE**

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

1 02.11.21 PRE-BUILDING RE-SUBMITTAL

2 03.17.21 PRE-BUILDING RE-SUBMITTAL

09.08.21 BUILDING RE-SUBMITTAL

09.28.21 BUILDING RE-SUBMITTAL

01.31.22 KITCHEN & ROOF REVISION

02.11.22 BUILDING REVISION SUBMITTAL

03.02.22 BUILDING REVISION SUBMITTAL 03.10.22 BUILDING REVISION SUBMITTAL

06.03.22 BUILDING REVISION SUBMITTAL

06.10.22 BUILDING REVISION SUBMITTAL

APPROVAL STAMP

ATTIC VENTILATION CALC.

VENTILATION REQUIRED 1,290/300 = 4.3 SF OR 619 SI OF VENTILATION REQUIRED 309.5 SI AT UPPER 1/3 AND 309.5 SI LOWER 1/3 OF ROOF.

EAVE VENT = 4" ROUND MINI LOUVER BY GIBRALTAR INDUSTRIES = 2.9 NET FREE AREA 309.5/2.9 = 107 VENTS REQUIRED

RIDGE VENT = CONTINUOUS VENT BY CORAVENT V-300 SEIRES = 13.5 SI 309.5/13.5 = 23 LINEAR FEET REQUIRED

GENERAL NOTES

- 1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION. 2. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME
- 3. "SIMILAR" SHALL MEAN COMPARABLE CHARACTERISTICS FOR THE
- 4. ADJUST PARTITION THICKNESS AND CAVITY FOR INCLUSION OF INTERNAL ELEMENTS, SUCH AS PLUMBING, AND FOR CORRECT INSTALLATION OF FIXTURES, PANELS, BOXES, ETC..
- 5. FINISH GYPSUM DRYWALL COMPLETELY TO WITHIN 1/4" OF FLOOR TO
- **ENSURE A SOLID WALL BASE INSTALLATION.** 6. GENERAL: AT ALTERED CONSTRUCTION, REPAIR CUT EDGES, REPLACE CONSTRUCTION AND FIT NEW TO EXISTING CONSTRUCTION AS REQUIRED TO MATCH EXISTING WORK. WHERE NEW PAINT OR OTHER NEW FINISHES ARE JOINED, CARRY TO NEAREST BREAK IN SURFACES, CORNER, OR OTHER BREAK IN CONSTRUCTION AS REQUIRED FOR NEW AND FINISHED
- 7. WHERE CONCRETE FLOORS REQUIRE LEVELING, PROVIDE SELF LEVELING CEMENTITIOUS FILLER FLOATED TO A FEATHER EDGE. MIX AND APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

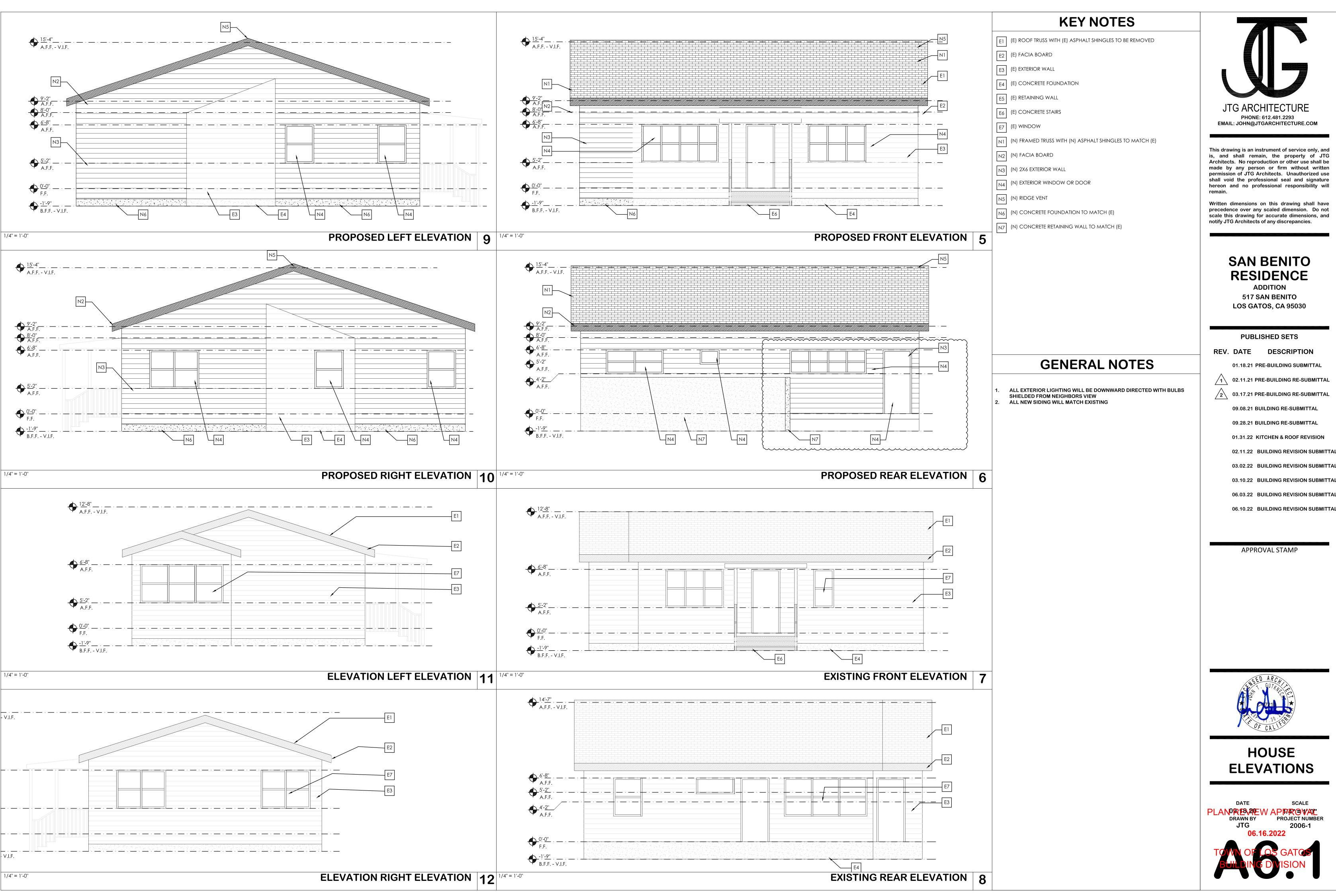


HOUSE SECTIONS

PLANORIENZOEW APPARIGIVAL DRAWN BY PROJECT NUMBER JTG



CROSS SECTION 6



This drawing is an instrument of service only, and Architects. No reproduction or other use shall be made by any person or firm without written permission of JTG Architects. Unauthorized use shall void the professional seal and signature hereon and no professional responsibility will

Written dimensions on this drawing shall have precedence over any scaled dimension. Do not scale this drawing for accurate dimensions, and notify JTG Architects of any discrepancies.

SAN BENITO **RESIDENCE**

ADDITION 517 SAN BENITO LOS GATOS, CA 95030

PUBLISHED SETS

REV. DATE DESCRIPTION

01.18.21 PRE-BUILDING SUBMITTAL

02.11.21 PRE-BUILDING RE-SUBMITTAL

03.17.21 PRE-BUILDING RE-SUBMITTAL

09.28.21 BUILDING RE-SUBMITTAL

01.31.22 KITCHEN & ROOF REVISION

03.02.22 BUILDING REVISION SUBMITTAL

03.10.22 BUILDING REVISION SUBMITTAL

06.10.22 BUILDING REVISION SUBMITTA

APPROVAL STAMP



HOUSE **ELEVATIONS**

