47 SQ.FT. - 44 SQ.FT. COVERED PORCH - 20 SETBACK LINE

20' AVERAGE SETBACK VERIFICATION

ABBREVIATIONS

ADJ. A.F.F.

(D) DN. D.S.

EL. E.T.R.

ADJUSTABLE ABOVE FINISH FLOOR

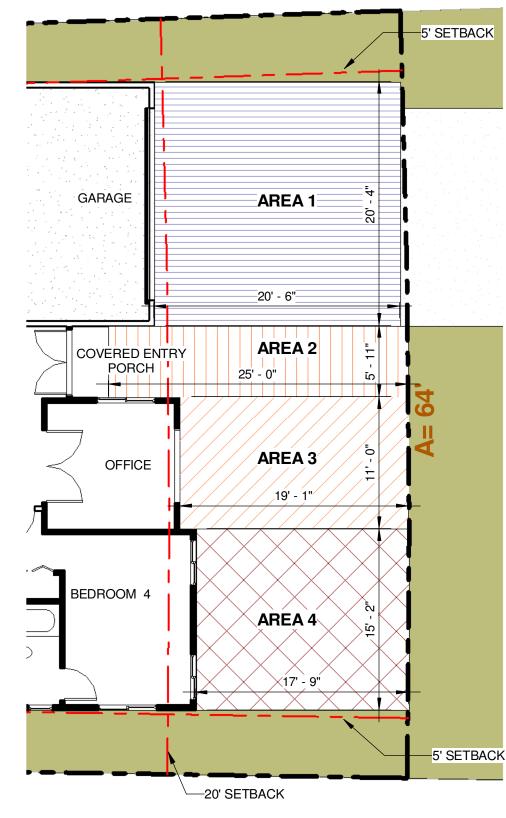
EXISTING TO REMAIN

DEMOLISH

EXISTING

ELEVATION

DOWN DOWN SPOUT



AREA 1 20.33 X 20.5 = 416.76 AREA 2 5.91 X 25 = 147.75 AREA 3 11.1 X 19.08 = 211.41 AREA 4 15.33 X 17.75 = 272.10 416.76 + 147.75 + 211.41 + 272.10 = 1048.02 1048.02 / 52.4 = 20' SETBACK

AVERAGE SETBACK CALCULATION

SCOPE OF WORK

65' - 6"

-MINOR-

INTERIOR

REMODEL

EXISTING

1665 SQ.FT.

46' - 9"

GARAGE

375 SQ.FT.

MEW ADDITION

√585 SQ.FT\

* ADD 585 SQ.FT ADDITION @ FRONT OF THE HOUSE WITH **COVERED PORCH & TRELLIS TO EXISTING 1,665 SQ.FT. ONE STORY** SINGLE FAMILY DWELLING

*MINOR INTERIOR REMODEL: KITCHEN ISLAND EXTENDED, NEW **CABINET WHERE OPENING TO** HALLWAY WAS. LAUNDRY ROOM **GETS BIGGER TAKING THE SPACE** WHERE HALLWAY AND POWDER **ROOM WAS.**

SCOPE OF WORK DIAGRAM

NEW 72 SQ.FT. COVERED PORCH

01 NEW ROOF

02 NEW TRELLIS POST

03 NEW ADDITION

SIDE SET BACK

17' - 9"

PROJECT SUMMARY

PROJECT DATA

SITE ADDRESS:

TRACT:

BLOCK:

ZONING:

OWNERS:

LOT/PARCEL AREA:

BASELINE HILLSIDE

BUILDING SQ.FT:

ORDINANCE:

APPLICABLE CODES: THIS PROJECT SHALL COMPLY WITH:

7514-011-010

7,460 SQ.FT

YES 1,665 SQ.FT.

128 VIA SEGO, TORRANCE, CA 90277

PROPERTY ADDRESS: 128 VIA SEGO TORRANCE CA 90277 LOT 10, TR 10302 IN THE CITY OF LEGAL DESCRIPTION: TORRANCE, COUNTY OF L.A STATE OF CALIFORNIA 7514-011-010 ASSESSOR ID #:

Fred Rello

ZONE: BLOCK: CONSTRUCTION TYPE: LOT AREA: 7,460 SQ.FT

ARCHITECTURE & INTERIOR DESIGN 190 N. Canon Drive Suite # 313 Beverly Hills, CA 90210 310.709.1222

thereof shall be copied, disclosed to others or used in connection with any project other than the specific project for which they have been

repared and developed without the written consent of Ames Peterson

PROJECT DIRECTORY:

DESIGNER: **Ames Peterson Design Studio** 190 N. Canon Drive Suite 313 Beverly Hills, CA 90210 310.709.1222

ENGINEER: Valley Home Design 14423 Sylvan Street Van Nuys, CA 91401 818.908.9851

SQUARE FOOTAGE BREAKDOWN

	I		I
	EXISTING	PROPOSED ADDITION	TOTAL
IVING AREA	1,665 SQ.FT	585 SQ.FT.	2,250 SQ.FT.
COVERED PATIO	0	72 SQ.FT.	72 SQ.FT
GARAGE	375 SQ.FT.		(NOT INCLUDED IN F.A.R.)
			2,322 SQ.FT.

LOT SIZE = 7,460 SQ.FT. 2,322 = 31.1% < 50% MAX. F.A.R.

CLIENT:

Project Address & Owners:

Residence

128 VIA SEGO

DATE PRINTED:

TORRANCE, CA 90277

BENCHMARK:

SHEET INDEX

A-0.0 COVER SHEET / SITE PLAN
A-0.1 GENERAL NOTES
A-0.2 TITLE 24
A-0.3 TITLE 24 CONT.
A-1.0 PROPOSED ROOF PLAN
A-1.1 DEMO PLAN / ELEVATION
A-2.0 PROPOSED FLOOR PLAN

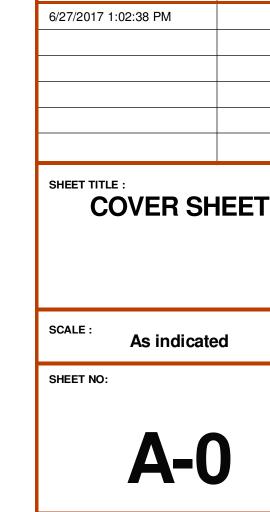
A-3.0 PROPOSED ELEVATIONS A-4.0 PROPOSED SECTIONS / DOOR & WINDOW SCHEDULE

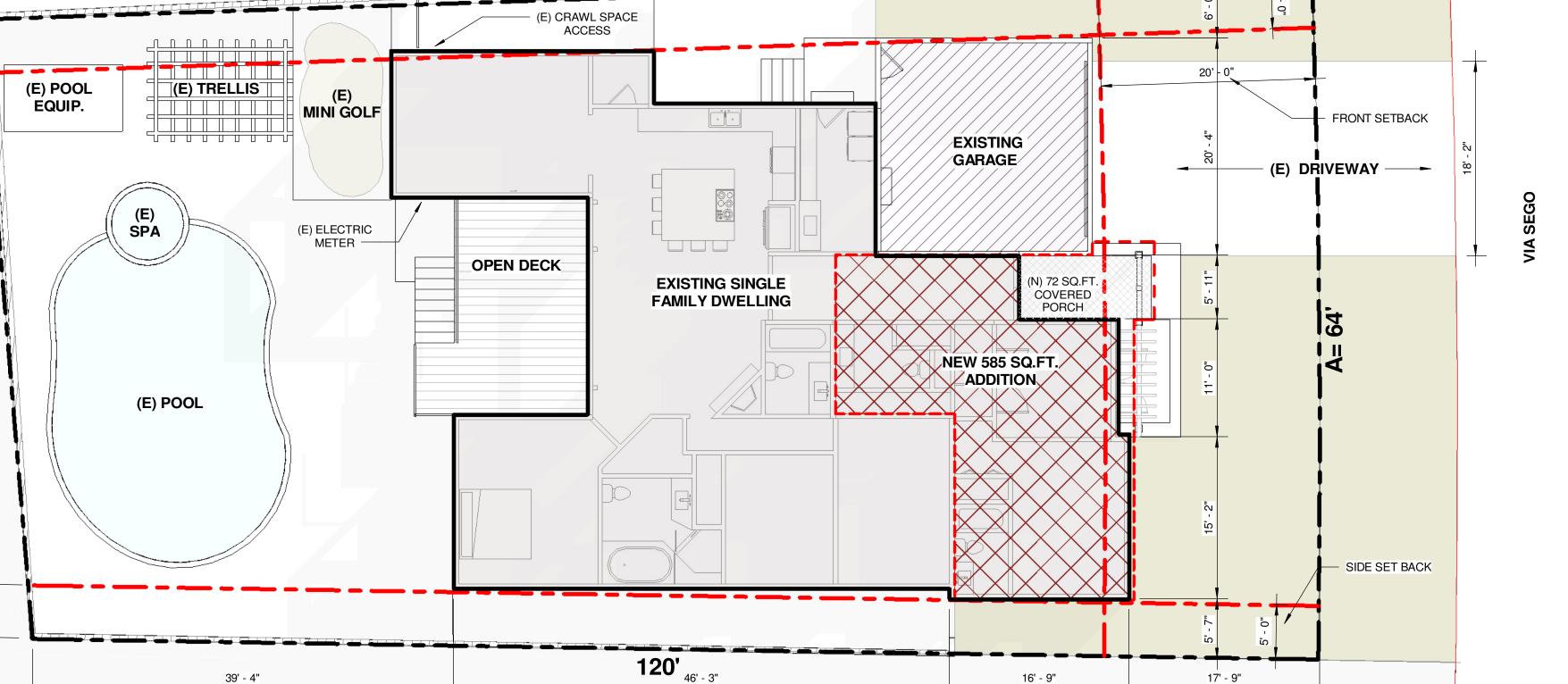
GENERAL NOTES SHEAR WALL SCHEDULE & RELATED NOTES

FOUNDATION PLAN / ROOF FRAMING PLAN S-4 STRUCTURAL DETAILS

VICINITY MAP







124.35'

E.P. F.F.E. ELECTRIC PANEL FINISH FLOOR ELEVATION MIN. CLR. MINIMUM REQUIRED CLEARANCE (N) N/A NOT APPLICABLE NOT IN CONTRACT N.I.C. N.T.S. NOT TO SCALE T.B.D. T.O.C. T.O.F. T.O.P. T.S. TO BE DETERMINED TOP OF CURB TOP OF FLOOR TOP OF PLATE TOP OF SLAB F.G. FINISH GRADE U.O.N. U/S V.I.F. UNLESS OTHERWISE NOTED UNDER SIDE VERIFY IN FIELD WALK IN CLOSET

SITE PLAN

Calculation Description: Title 24 Analysis Input File Name: 17-272P_v7-1.ribd16x

GENERAL	LINFORMATION				
01	Project Name	Existing+Addition at 128 via Sego			
02	Calculation Description	Title 24 Analysis			
03	Project Location	128 Via Sego	100000		
04	City	Redondo Beach	05	Standards Version	Compliance 2017
06	Zip Code	90277	07	Compliance Manager Version	BEMCmpMgr 2016.2.1 (695)
08	Climate Zone	CZ6	09	Software Version	EnergyPro 7.1
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	120
12	Project Scope	Addition and/or Alteration	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (ft ²)	2253	15	Number of Zones	2
16	Slab Area (ft²)	0	17	Number of Stories	1
18	Addition Cond. Floor Area	588	19	Natural Gas Available	Yes
20	Addition Slab Area (ft ²)	0	21	Glazing Percentage (%)	23.3%

CON	MPLIANCE RE	SULTS
	01	Building Complies with Computer Performance
	02	This building DOES NOT require HERS Verification
	03	This building incorporates one or more Special Features shown below

	ENERGY USE SUMMARY						
04	05	06	07	08			
Energy Use (kTDV/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement			
Space Heating	26.80	26.78	0.02	0.1%			
Space Cooling	20.78	20.72	0.06	0.3%			
IAQ Ventilation	0.00	0.00	0.00	0.0%			
Water Heating	14.92	14.92	0.00	0.0%			
Photovoltaic Offset		0.00	0.00				
Compliance Energy Total	62.50	62.42	0.08	0.1%			

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE	E COMPLIANCE METHOD	CF1R-PRF-01
Project Name: Existing+Addition at 128 via Sego	Calculation Date/Time: 14:21, Wed, Jun 21, 2017	Page 4 of 9

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HERS Provider:

HERS Provider:

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Registration Date/Time:

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Registration Number:

Registration Number:

Calculation Description: Title 24 Analysis

01		02	03	04	05	06	07	08	09		10	11
Name	Surfa	ce (Orientation-Azimuth)	Width(ft)	Height (ft)	Multiplier	Area (ft ²)	U-factor	SHGC	Exterior Shad	ding	Status	Verified Existing Conditio
Window - D		Front (Front-120)	4.3	5.0	1.009	21.7	0.37	0.31	Insect Screen (d	efault)	New	N/A
Window - D 2		Front (Front-120)	4.3	5.0	1.009	21.7	0.37	0.31	Insect Screen (d	efault)	New	N/A
French Door - 01		Front (Front-120)	6.2	6.8	0.989	41.7	0.37	0.31	Insect Screen (d	efault)	New	N/A
French Door - 02		Front (Front-120)	5.5	7.1	0.999	39.0	0.37	0.31	Insect Screen (d	efault)	New	N/A
Window - Y		Right (Right-30)	5.3	4.1	1.003	21.8	0.37	0.31	Insect Screen (d	efault)	New	N/A
Window - E		Left (Left-210)	2.0	4.0	1	8.0	0.37	0.31	Insect Screen (d	efault)	New	N/A
Window - Y 2		Left (Left-210)	5.3	4.1	1.003	21.8	0.37	0.31	Insect Screen (d	efault)	New	N/A
Window: New	Left	t: To Remain (Left-210)			1	22.8	0.37	0.31	Insect Screen (d	efault)	Altered	N/A
Window; Remain	Left	t: To Remain (Left-210)	-		1	45.8	0.71	0.73	Insect Screen (d	efault)	Existing	No
Sliding Door; Remain	Left	t: To Remain (Left-210)	<u> </u>		1	77.8	0.71	0.73	Insect Screen (d	efault)	Existing	No
Window: Remain	Righ	nt: To Remain (Right-30)		52-22-9	1	21.6	0.71	0.73	Insect Screen (d	efault)	Existing	No
Window: Remain 2	Righ	nt: To Remain (Right-30)		1	1	11.1	0.71	0.73	Insect Screen (default)		Existing	No
Window: Remain 3	Righ	nt: To Remain (Right-30)			1	18.4	0.71	0.73	Insect Screen (default)		Existing	No
French Door: Remain	Righ	nt: To Remain (Right-30)			1	20.0	1.04	0.74	Insect Screen (d	efault)	Existing	No
Sliding Door; Remain 2	Back	: To Remain (Back-300)	2220	1/22/22	1	76.7	0.71	0.73	Insect Screen (default)		Existing	No
Window: Remain 4	Back	: To Remain (Back-300)			1	36.6	0.71	0.73	Insect Screen (d	efault)	Existing	No
Window: Remain 5	Back	:: To Remain (Back-300)		(1	18.4	0.71	0.73	Insect Screen (d	efault)	Existing	No
AQUE DOORS												
01		02 03		13	04		05		06			
Name		Side of E	Building		Area	ı (ft²)	U-fac	tor	Status Verified Existing Cond		Condition	
Door		Interior S	urface 3		21	1.9	0.5	0	New No			

CA Building Energy Efficiency Standards - 2016 Residential Complian	nce Report Version - CF1R-05092017-695	Report Generated at: 2017-06-21 14:21:27
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Registration Date/Time:

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Calculation Descr	iption: Title 24 /	anaiysis				input File Nai	me: 17-272P_v	7-1.NDQ16X				
WATER HEATING S	YSTEMS											
01		02		03			04		05	06	07	08
Name	Sy	stem Type	Di	stribution	Туре	v	Vater Heater	30507	nber of	Sola Fracti (%)	on	Verified Existing
DHW Sys 1	1	DHW		Standar	d	D	HW Heater 1		1	Annu	al Existin	g No
WATER HEATERS	~	W.				A170		1000		**	***	**
01	02	03	04	05	06	07	08	0	9		10	11
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Energy Factor or Efficiency	Input Rating/Pilot	Tank Insulation R-value (Int/Ext)	Standby Recov		NEEAH	Heat Pump Ty	Tank Location Ambient pe Condition
DHW Heater 1	Gas	Small Storage	1	50	0.525 EF	28000 Btu/hr	n/a	n/	'a		n/a	n/a
SPACE CONDITION	ING SYSTEMS											
01	02		03		C)4	05	06	0	7	08	09
		Hea	ting Syste	m	Cooling	System						
Name	System Type	e Name	D	ucted	Name	Ducted	Distribution System	Fan System	311000000000000000000000000000000000000	Area ved	Status	Verified Existin
Existing FAU1	Other Heating a Cooling Syste		1	Yes	Cooling Component 1	No	Air Distribution System 1	HVAC Fan 1	n 2253 Ex		Existing	No
HVAC - HEATING UI	NIT TYPES											
	01		02							04		
	Name		Sy			System Type		Number of	Number of Units		Efficiency	
He	eating Component	1			CntrlFurr	nace		1			75 AF	UE
HVAC - COOLING U	NIT TYPES											
01		02			03	04	05	06		07		08
News		Contain Ton			han af Huita	Efficienc	H2-504	alla Cambralla			_	LIEBO Verification

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMA	CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				
Project Name: Existing+Addition at 128 via Sego	Calculation Date/Time: 14:21, Wed, Jun 21, 2017	Page 2 of 9			
Calculation Description: Title 24 Analysis	Input File Name: 17-272P v7-1.ribd16x				

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. • Ceiling has high level of insulation • Window overhangs and/or fins • New ductwork added is less than 40 ft. in length HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional deprovided in the building components tables below. Building-level Verifications: •None — Cooling System Verifications: • None — HVAC Distribution System Verifications: • None — Domestic Hot Water System Verifications: • None —	QUIRED SPECIAL FEATURES
 Window overhangs and/or fins New ductwork added is less than 40 ft. in length HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional deprovided in the building components tables below. Building-level Verifications: -None Cooling System Verifications: -None HVAC Distribution System Verifications: -None Domestic Hot Water System Verifications: 	following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional deprovided in the building components tables below. Building-level Verifications: None Cooling System Verifications: None HVAC Distribution System Verifications: None Domestic Hot Water System Verifications:	/indow overhangs and/or fins
provided in the building components tables below. Building-level Verifications: None Cooling System Verifications: None HVAC Distribution System Verifications: None Domestic Hot Water System Verifications:	S FEATURE SUMMARY
 None Cooling System Verifications: None HVAC Distribution System Verifications: None Domestic Hot Water System Verifications: 	
	None

01	02	03 04		05	06	07
Project Name	Conditioned Floor Area (ft2)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Existing+Addition at 128 via Sego	2253	1	4	2	0	1
ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Nar	Zone Floor A	rea Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
Addition	Conditioned	Existing FAU1	588	8.3	DHW Sys 1	n/a
Existing	Conditioned	Existing FAU1	1665	8.3	DHW Sys 1	n/a

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01	02	03	04	05	06	07	08	09	10	11	12	13	14
			Overhang				Left I	in			Right	Fin	
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	DistL	Bot Up	Depth	Тор Uр	Dist R	Bot l
Window - D	2	0.1	4	4	0	0	0	0	0	0	0	0	0
Window - D 2	2	0.1	4	4	0	0	0	0	0	0	0	0	0
French Door - 01	2	0.1	4	4	0	0	0	0	0	0	0	0	0
French Door - 02	12	0.1	10	10	0	9	0	0.1	0	0	0	0	0
Window - Y	8	0.1	8	8	8	0	0	0	0	0	0	0	0
Window - E	2	0.1	4	4	0	0	0	0	0	0	0	0	0
Window - Y 2	2	0.1	4	4	0	0	0	0	0	0	0	0	0

Registration Number:	Registration Date/Time:	HERS Provider:
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE	COMPLIANCE METHOD	CF1R-PRF-01
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IVAC - DISTRIBUTIO	ON SYSTEMS								
01	02	03	04	05	06	07	08	09	10
Name	Туре	Duct Leakage	Insulation R-value	Supply Duct Location	Return Duct Location	Bypass Duct	Status	Verified Existing Condition	HERS Verification
Air Distribution System 1	Ducts located in attic (Ventilated and Unventilated)	Existing (not specified)	6.0	Attic	Attic	None	Existing + New	No	N/A
Q (Indoor Air Qual	ity) FANS								
0	1	0	2		03		04	0:	5
Naı	me	IAQ	CFM]]	AQ Fan Type	IAQ Reco	very Effectiveness	%) HERS Ver	ification
SFam IAC	QVentRpt	C)		Default		0	Not Re	quired

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 14:21, Wed, Jun 21, 2017 Project Name: Existing+Addition at 128 via Sego

Input File Name: 17-272P_v7-1.ribd16x Calculation Description: Title 24 Analysis

01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²	Window & Door Area (ft ²)	Tilt (deg)	Status	Verit Exist Cond
Front	Addition	R-15 Wall	120	Front	279	124.094	90	New	N/
Rear	Addition	R-15 Wall	300	Back	9	0	90	New	N/
Right	Addition	R-15 Wall	30	Right	81	21.7952	90	New	N/
Left	Addition	R-15 Wall	210	Left	129	29.7952	90	New	N/
Interior Surface 2	Addition>>Garage	R-15 Wall1			98	0		New	N/A
New Roof	Addition	R-38 Roof Attic			588			New	N/A
Raised Floor	Addition	R-19 Floor Crawlspace			588			New	N/
Front: To Remain	Existing	R-0 Wall	120	Front	40	0	90	Existing	No
Left: To Remain	Existing	R-0 Wall	210	Left	521	146.4	90	Existing	No
Right: To Remain	Existing	R-0 Wall	30	Right	520	71.1	90	Existing	No
Back: To Remain	Existing	R-0 Wall	300	Back	453	131.7	90	Existing	No
Interior Surface 3	Existing>>Garage	R-0 Wall1			181	21.9		Existing	No
Existing Roof: Remain	Existing	R-19 Roof Attic			1665			Existing	No
Raised Floor 2	Existing	R-0 Floor Crawlspace	100		1665			Existing	No
Right Wall	Garage	R-0 Wall	120	Front	155	0	90	New	N//
Left Wall	Garage	R-0 Wall	300	Back	58	0	90	New	N/A
Back Wall	Garage	R-0 Wall	30	Right	40	20	90	New	N/
Front Wall	Garage	R-0 Wall	210	Left	163	112	90	New	N/
ıc									
01	02	03	04	05	06 0	7 08	09		10
	1			D C	D				:c

01	02	03	04	05	06	07	08	09	10
Name	Construction	Туре	Roof Rise	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Addition	Attic RoofAddition	Ventilated	0	0.1	0.85	Yes	No	New	No
Attic Existing	Attic RoofExisting	Ventilated	0	0.1	0.85	No	No	Existing	No

CA Building Energy Efficiency Standards - 2016 Residential Compliance	Report Version - CF1R-05092017-695	Report Generated at: 2017-06-21 14:21:

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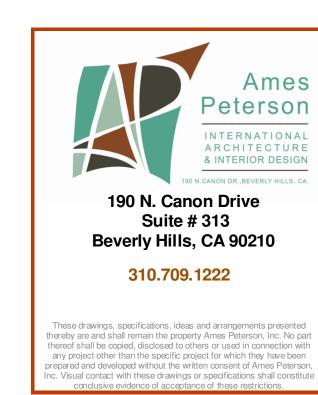
01	02	03	04	05	06	07
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-value	Assembly Layers
R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.361	 Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco
Attic RoofAddition	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	 Cavity / Frame: no insul. / 2x4 Top Chrd Roof Deck: Wood Siding/sheathing/decki Roofing: Light Roof (Asphalt Shingle)
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 15	0.095	 Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
R-0 Wall1	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.277	 Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board
R-15 Wall1	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 15	0.086	 Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Board
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x8 @ 16 in. O.C.	R 19	0.047	 Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/deck Cavity / Frame: R-19 / 2x8
R-38 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 38	0.025	Inside Finish: Gypsum Board Cavity / Frame: R-9.1 / 2x4 Over Ceiling Joists: R-28.9 insul.
Attic RoofExisting	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	 Cavity / Frame: no insul. / 2x4 Top Chrd Roof Deck: Wood Siding/sheathing/deckil Roofing: Light Roof (Asphalt Shingle)
R-19 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 19	0.049	 Inside Finish: Gypsum Board Cavity / Frame: R-9.1 / 2x4 Over Ceiling Joists: R-9.9 insul.
R-0 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x12 @ 16 in. O.C.	none	0.216	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decki Cavity / Frame: no insul. / 2x12
ILDING ENVELOPE - HERS	VERIFICATION					
01			02		03	04
Quality Insulation In	stallation (QII)	Quality Installation	on of Spray Foam Insulation	Building Enve	lope Air Leakage	CFM50

01	02	03	04
Quality Insulation Installation (QII)	Quality Installation of Spray Foam Insulation	Building Envelope Air Leakage	CFM50
Not Required	Not Required	Not Required	5 7.3 5

CA Building Energy Efficiency Standards - 2016 Residential Compliance	Report Version - CF1R-05092017-695	Report Generated at: 2017-06-21 14:21:27
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate and	complete.	
Documentation Author Name: Chad Campbell	Documentation Author Signature:	
Company: NEWTON ENERGY	Signature Date: 6/21/2017	
Address: 1401 19th Street	CEA/HERS Certification Identification (If applicable):	
City/State/Zip: Manhattan Beach, CA 90266	Phone: (310) 375-2699	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of I am eligible under Division 3 of the Business and Professions Code I certify that the energy features and performance specifications ide Regulations. The building design features or system design features identified on	California: to accept responsibility for the building design identified on this Certificate of Compliance. entified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 on this Certificate of Compliance are consistent with the information provided on other applicable corenforcement agency for approval with this building permit application.	
I certify the following under penalty of perjury, under the laws of the State of I am eligible under Division 3 of the Business and Professions Code I certify that the energy features and performance specifications ide Regulations. The building design features or system design features identified on	e to accept responsibility for the building design identified on this Certificate of Compliance. entified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 on this Certificate of Compliance are consistent with the information provided on other applicable core.	
I certify the following under penalty of perjury, under the laws of the State of I am eligible under Division 3 of the Business and Professions Code I certify that the energy features and performance specifications ide Regulations. The building design features or system design features identified on worksheets, calculations, plans and specifications submitted to the	e to accept responsibility for the building design identified on this Certificate of Compliance. entified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 on this Certificate of Compliance are consistent with the information provided on other applicable corenforcement agency for approval with this building permit application.	
Certify the following under penalty of perjury, under the laws of the State of Lam eligible under Division 3 of the Business and Professions Code Loertify that the energy features and performance specifications ide Regulations. The building design features or system design features identified or worksheets, calculations, plans and specifications submitted to the Responsible Designer Name:	e to accept responsibility for the building design identified on this Certificate of Compliance. entified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 on this Certificate of Compliance are consistent with the information provided on other applicable corenforcement agency for approval with this building permit application. Responsible Designer Signature:	



CF1R-PRF-01

HERS Provider:

HERS Provider:

Page 3 of 9

PROJECT DIRECTORY:

DESIGNER: Ames Peterson Design Studio 190 N. Canon Drive Suite 313 Beverly Hills, CA 90210 310.709.1222

ENGINEER: Valley Home Design 14423 Sylvan Street Van Nuys, CA 91401 818.908.9851

CLIENT:

Project Address & Owners: Residence 128 VIA SEGO **TORRANCE, CA 90277** DATE PRINTED: BENCHMARK: 6/27/2017 1:02:39 PM

> SHEET TITLE : TITLE 24 **CALCULATIONS**

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

SHEET NO:

ICC-ES Evaluation Report

Most Widely Accepted and Trusted

ESR-1389
Reissued January 2016

Reissued January 2016 Revised September 2016 This report is subject to renewal January 2017.

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 31 13—Asphalt Shingles

REPORT HOLDER:

CERTAINTEED CORPORATION
20 MOORES ROAD
MALVERN, PENNSYLVANIA 19355

(610) 893-6096 www.certainteed.com

EVALUATION SUBJECT:
CERTAINTEED ASPHALT SHINGLES

1.0 EVALUATION SCOPE

Compliance with the following codes:
■ 2015, 2012, 2009 and 2006 International Building Code® (IBC)

■ 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

■ 2013 Abu Dhabi International Building Code (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

Weather resistanceFire classification

■ Wind resistance
2.0 USES

The CertainTeed asphalt shingles described in this report comply with ASTM D3462 and are Class A roof coverings when installed as described in this report.

3.0 DESCRIPTION
3.1 General:

CertainTeed asphalt shingles are available as three-tab, four-tab, no cut-out and laminated asphalt shingle roof covering materials. See Table 1 and Figure 1 for recognized product names, shingle types, manufacturing locations, overall dimensions, installed weights, maximum exposure to the weather, and fastening details. The shingles are self-sealing by means of adhesive strips located on either the weather side or the underside. See Figure 1 for adhesive strip location for field shingles and Starter Strip shingles.

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3.2 Three-tab, Four-tab and No Cut-out Shingles:

Three-tab, four-tab and no cut-out shingles are composed of a single layer of fiberglass mat, impregnated and coated with asphalt on both sides, and surfaced with mineral roofing granules on the weather side and a mineral release agent on the back side.

3.3 Laminated Shingles:
Laminated shingles, including two-layer laminated, three-

layer laminated and tri-laminate laminated shingles, are composed of multiple thicknesses of coated and surfaced fiberglass mat, cut and bonded together in different patterns. The weather side is surfaced with mineral roofing granules, and the back side is surfaced with a mineral release agent.

3.4 Accessory Shingles:

3.4.1 Hip and Ridge Shingles: Hip and ridge shingles are factory-made shingles to be used for covering hips and ridges. The hip and ridge shingles are composed of the same materials as the roof shingles. Some of the hip and ridge shingles have perforations that extend from the top of the cut-out to the top of the shingle, which facilitate the tearing of the shingle into three or four equal pieces. Others are manufactured as single hip and ridge units.

3.4.2 Starter Strip Shingles: Starter Strip shingles are factory-made shingles to be used as the starter course (under the first course of roof shingles). The Starter Strip shingles are composed of the same materials as the roof shingles. The shingles are supplied in 7-inch-by-36-inch-long (178 by 914 mm); 10-inch-by-36-inch-long (254 by 914 mm); or 7-inch-by-39³/₈-inch-long (178 by 1000 mm) strips. As an alternative to factory-made starter strips, starter strips can be formed by removing the lower tab portions of the factory-made shingles except for the Presidential Shake and Presidential Shake TL shingles. For Presidential Shake and Presidential Shake TL shingles, the Presidential Starter shingles consist of one 13¹/₄-inch-wide-by-40-inch-long (337 mm by 1016 mm) base shingle and one 11¹/₄-inch-wide-by-40-inch-long (286 mm by 1016 mm) base shingle.

Fasteners:
Fasteners must comply with ASTM F1667 and must be minimum No. 12 gage [0.105-inch-diameter (2.67 mm) shank], 3 /₈-inch-diameter-head (9.5 mm), galvanized steel, stainless steel, aluminum or copper roofing nails. Fasteners must be of sufficient length to penetrate into the sheathing 3 /₄ inch (19.1 mm), or through the sheathing,

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ATTIC ACCESS VENTILATION

ATTIC SQ. FT. ABOVE NEW ROOF

1279 SQ. FT / 150 = 8.52 x 144 = 1,227 sq.in. 1,227 sq. in IN NET FREE EXHAUST 1,227 sq.in. IN NET FREE AREA INTAKE

FOR **EXHAUST**: UTILIZE (9) MASTER FLOW MODEL HCD144
WITH CAPACITY OF 144 sq.in. OF NET FREE AREA FOR **INTAKE** USE (19) MASTER FLOW

MODEL:EAC16X8= 65 sq.in. NFAeach at marked locations

CONDITIONS IN SECTION R806.5

* OPENINGS SHALL HAVE CORROSION- RESISTANT WIRE MESH OR OTHER APPROVED MATERIAL WITH 1/16-in. MIN. AND 1/4-in. MAX. OPENING.
* A MINIMUM OF 1=in. AIRSPACE SHALL BE PROVIDED BETWEEN INSULATION AND ROOF SHEATHING (R806.3)

* UNVENTED ATTIC ASSEMBLIES SHALL MEET ALL THE

attributes not specifically addressed, nor are they to be construed exaranty by ICC Evaluation Service, LLC, express or implied, as



NEW CLASS 'A' SHINGLE ROOF TO MATCH EXISTING

Product	Color	Tier	CRRC Rated Product Directory								
			Product ID	Solar Reflectance		Thermal Emittance		Solar Reflective Index		Meets California Title 24?*	Energy Star Certified?
				Initial	Aged	Initial	Aged	Initial	Aged	불명품	S S E
Landmark Solaris® Gold	Max Def Resawn Shake	Better	0668-0051	0.26	0.25	0.88	0.90	26	25	YES	YES
Landmark Solaris® Gold	Max Def Weathered Wood	Better	0668-0050	0.25	0.24	0.90	0.89	25	24	YES	YES
Landmark Solaris® Platinum	Coastal Tan	Best	0668-0079	0.40	0.36	0.91	0.90	45	40	YES	YES
Landmark Solaris® Platinum	Santa Fe	Best	0668-0080	0.40	0.35	0.90	0.91	45	39	YES	YES
Landmark Solaris® Platinum	Sierra Buff	Best	0668-0074	0.41	0.37	0.92	0.90	47	41	YES	YES
Presidential Solaris® Gold	Max Def Weathered Wood	Best	0668-0076	0.25	0.23	0.93	0.90	27	23	YES	YES
Presidio® Tile	English Toffee	Best	0668-0086	0.28	pending	0.87	pending	28	pending	YES*	YES
Presidio® Tile	Nutmeg	Best	0668-0096	0.26	pending	0.92	pending	23	pending	YES*	YES
Presidio® Tile	Smoked Sage	Best	0668-0087	0.30	pending	0.83	pending	29	pending	YES*	YES
Presidio® Tile	Speckled Bronze	Best	0668-0088	0.28	pending	0.88	pending	28	pending	YES*	YES
Presidio® Tile	Terra Cotta	Best	0668-0089	0.33	pending	0.80	pending	31	pending	YES*	YES
Presidio® Shake	Ash	Best	0668-0095	0.26	pending	0.92	pending	25	pending	YES*	YES
Presidio® Shake	Sand Dune	Best	0668-0085	0.34	pending	0.85	pending	35	pending	YES*	YES
Presidio® Shake	Weathered Wood	Best	0668-0090	0.33	pending	0.84	pending	33	pending	YES*	YES

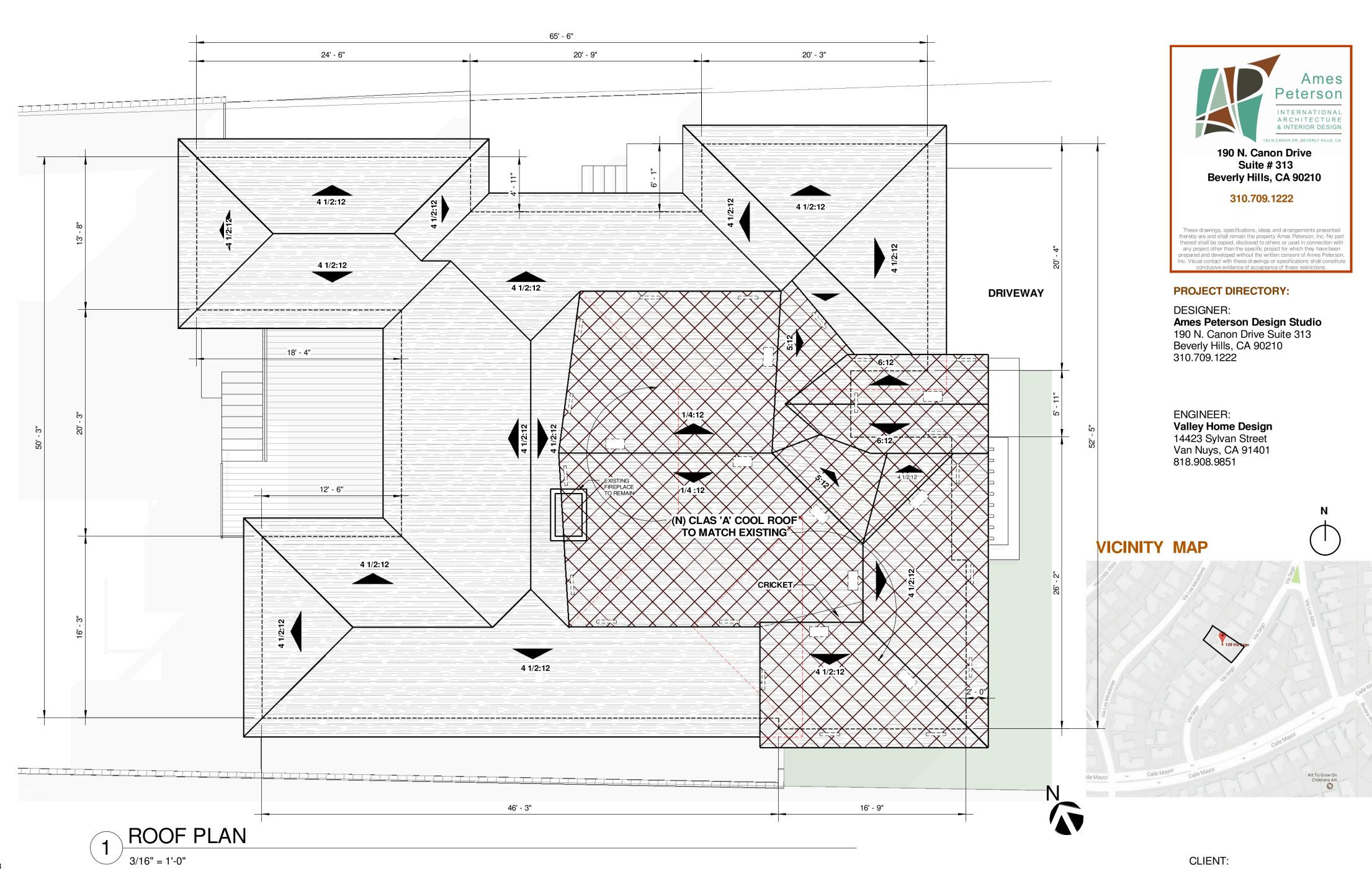
CERTAINTEED ASPHALT SHINGLE ROOF

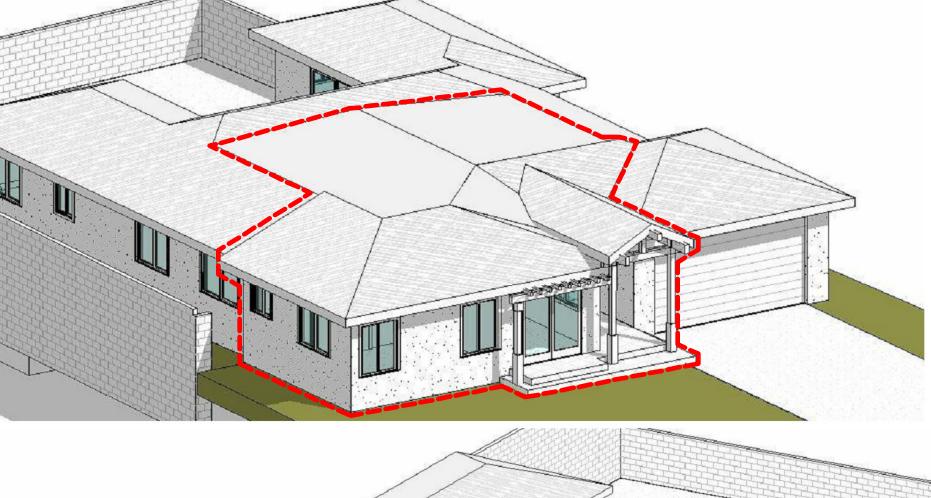
ASPHALT SHINGLE ROOF CLASS 'A' WITH COOL ROOF ICC REPORT: ESR. **1389**

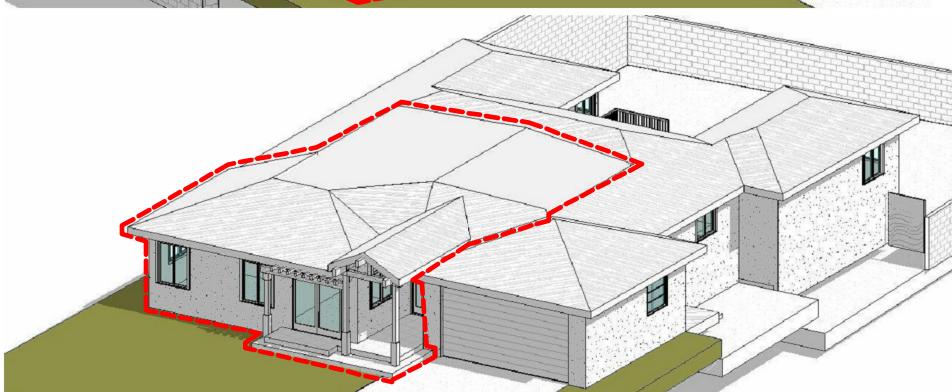
MANUFACTURER: CERTAIN TEED CORPORATION

PROJECT: CERTAIN TEED ASPHALT SHINGLES
(PRESIDENTIAL SOLARIS GOLD, COLOR: MAX DEF WEATHERED WOOD. AGED SRI:23
AGED SOLAR REFLECTANCE: 0.23. AGED THERMAL EMITTANCE: 0.90

CERTAINTEED ASPHALT SHINGLE ROOF









BIRD'S EYE VIEW

NEW TRELLIS OVER POSTS Project Address & Owners:

Residence

128 VIA SEGO

TORRANCE, CA 90277

DATE PRINTED: BENCHMARK: 6/27/2017 1:02:46 PM

PROPOSED ROOF
PLAN

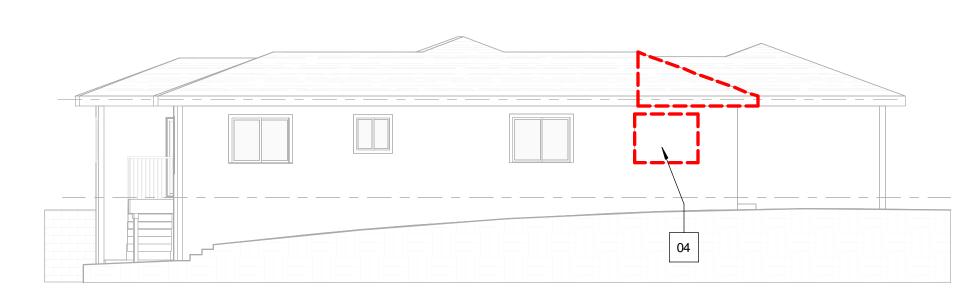
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As indicated

SHEET NO:

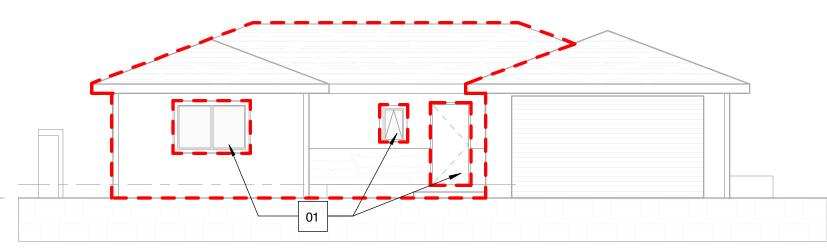
A-1.0



NORTH - SIDE ELEVATION NOTHING IS AFFECTED ON THIS ELEVATION



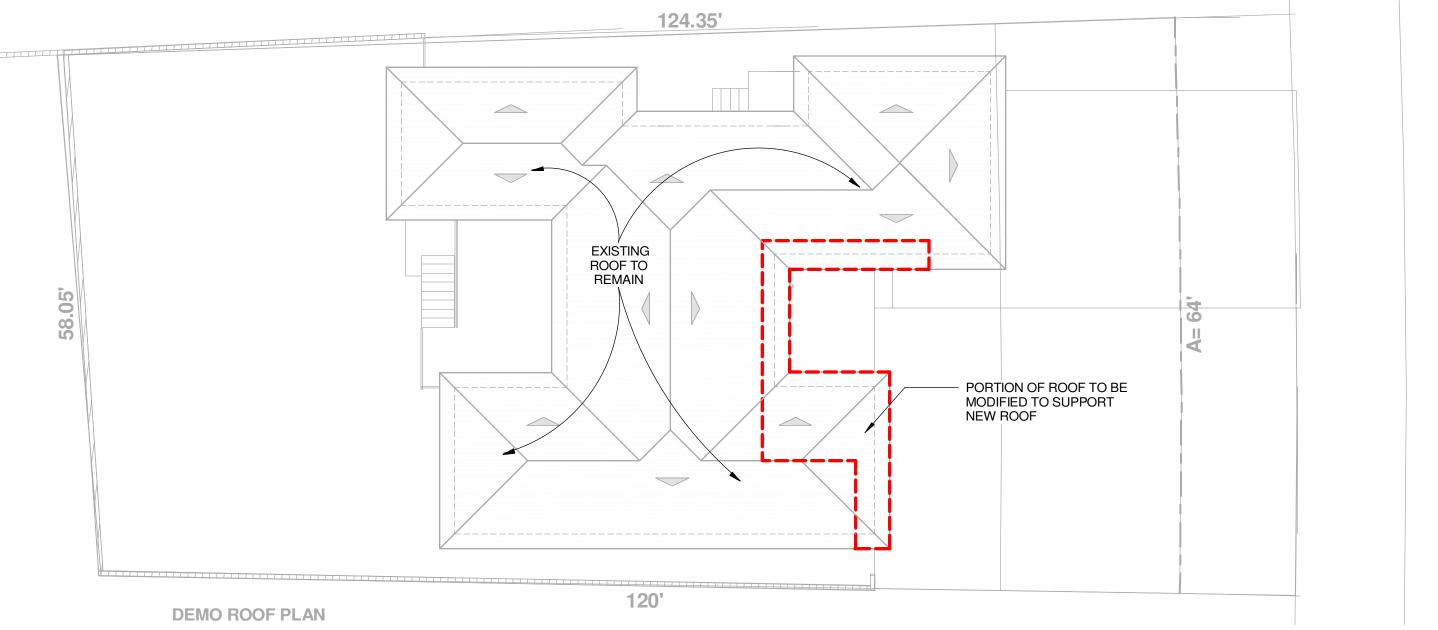
SOUTH - SIDE ELEVATION



EAST- FRONT ELEVATION



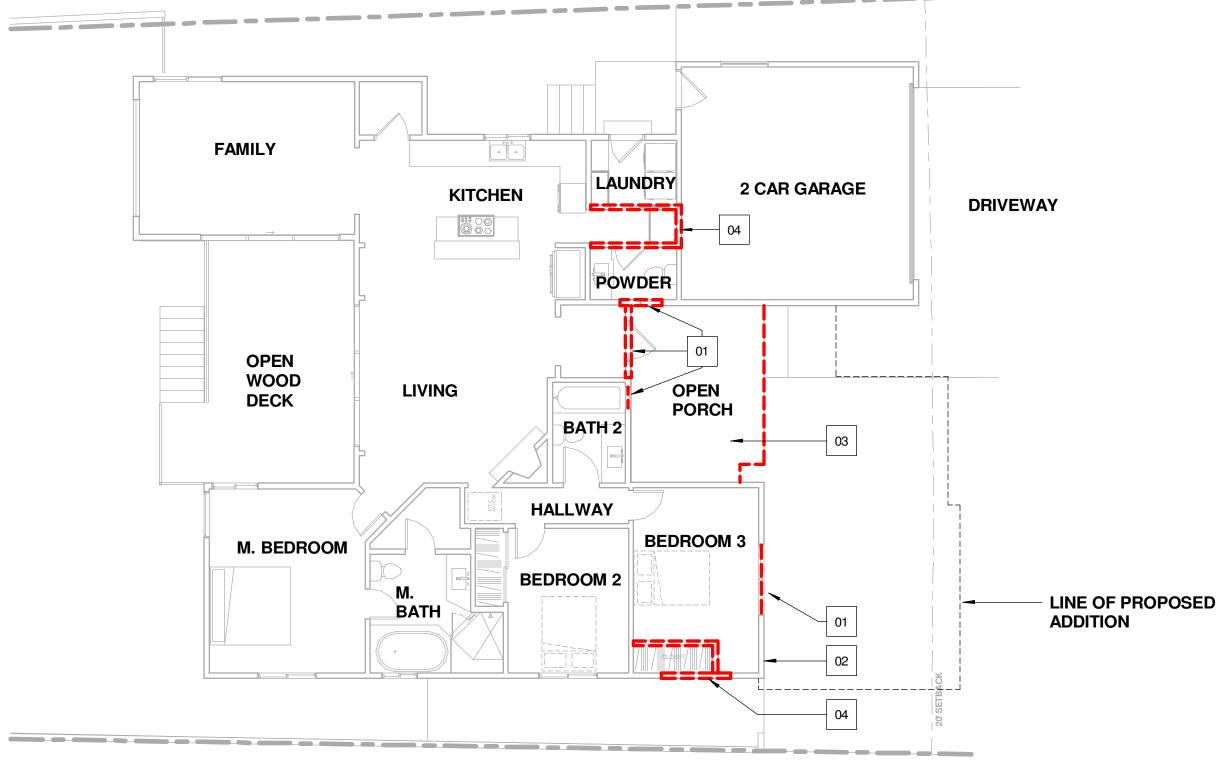
EXISTING ELEVATIONS



EXISTING / DEMO ROOF

[/] 3/32" = 1'-0"





KEYNOTE / LEGEND

DEMO DOOR / WINDOW

EXTERIOR WALL IS NOW INTERIOR

DEMO FRONT OPEN PATIO

PEROFORATE WALL FOR PROPOSED DOOR / WINDOW

DEMO WALL / ROOF



PROJECT DIRECTORY:

DESIGNER: Ames Peterson Design Studio 190 N. Canon Drive Suite 313 Beverly Hills, CA 90210 310.709.1222

ENGINEER: Valley Home Design 14423 Sylvan Street Van Nuys, CA 91401 818.908.9851

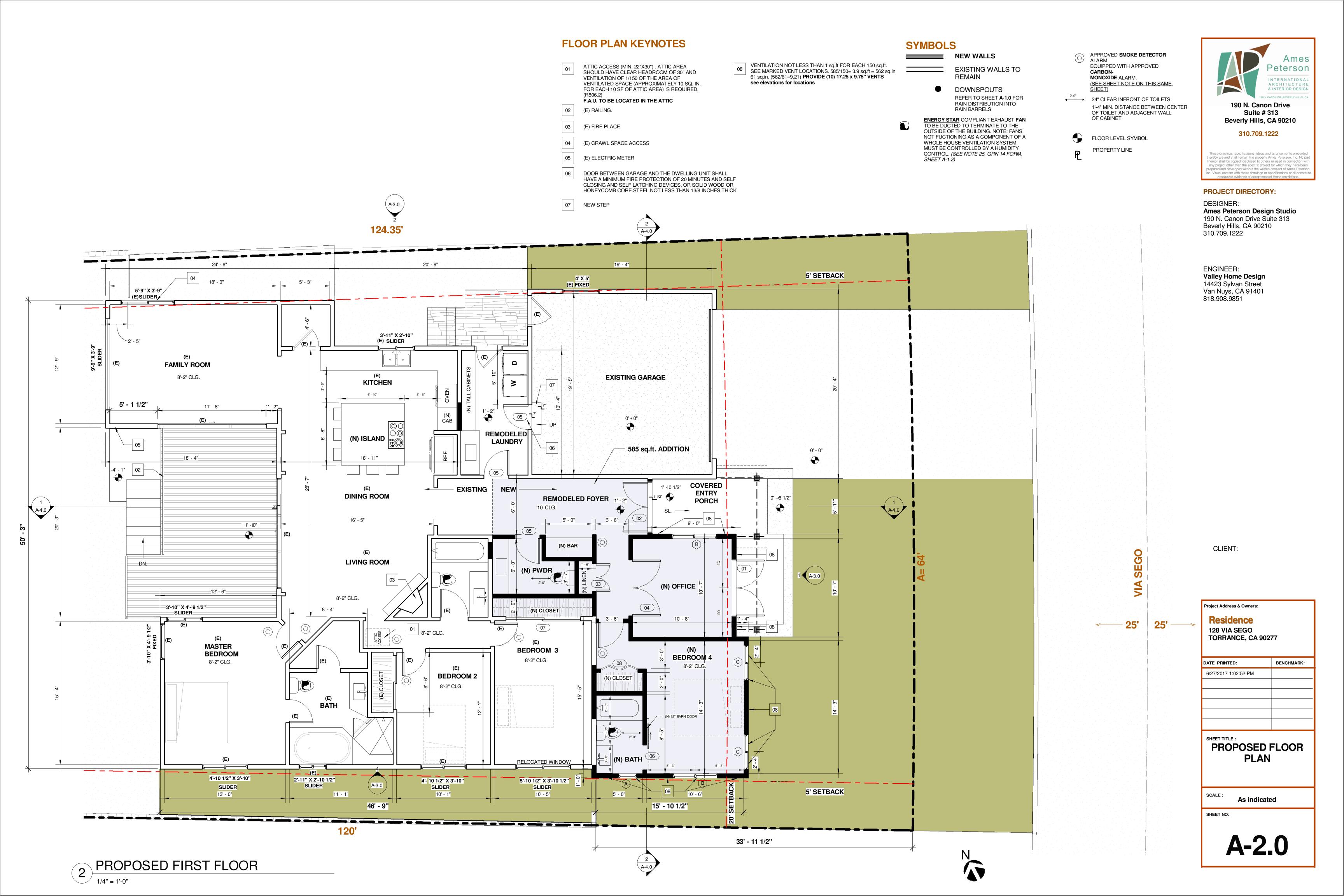
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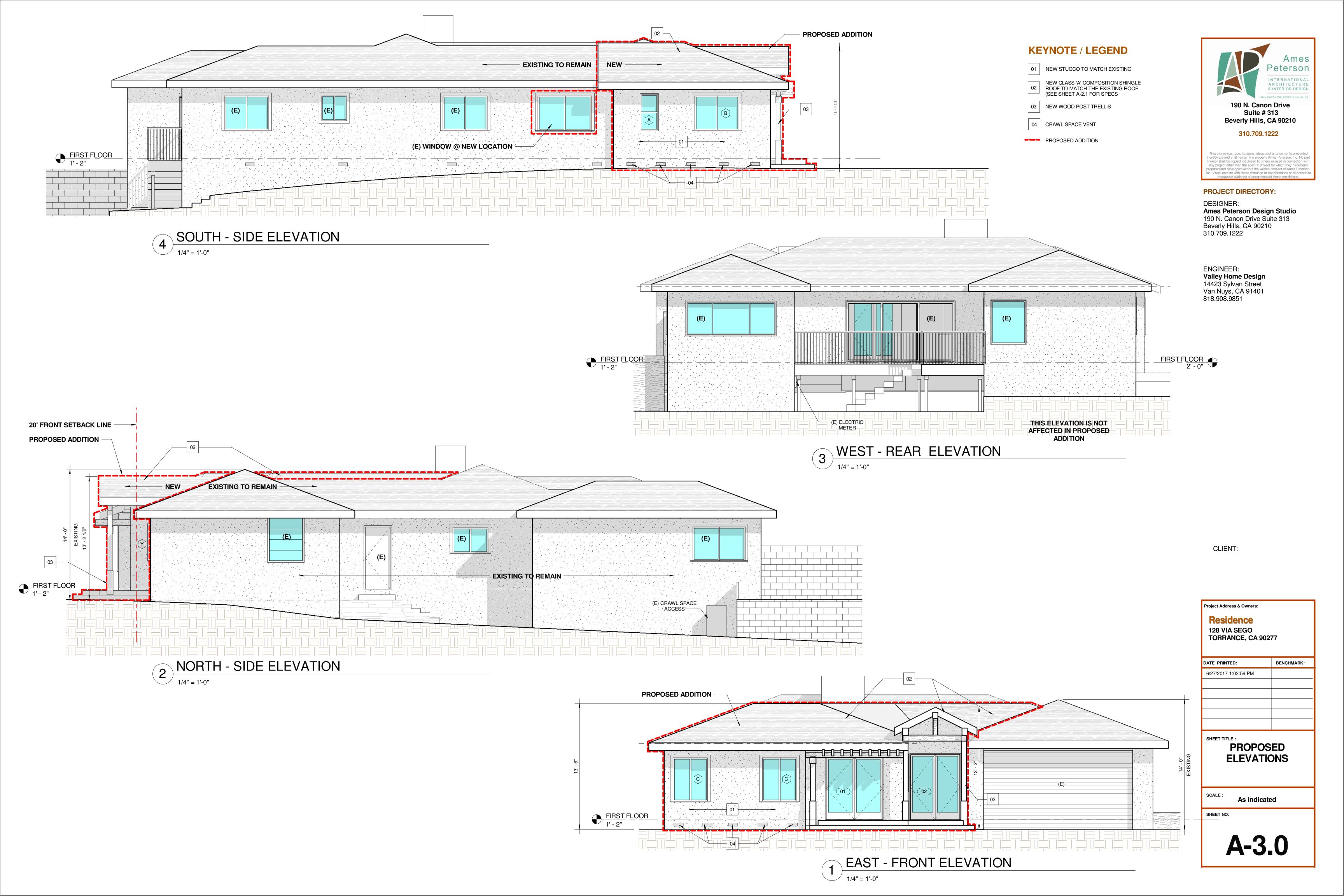
Project Address & Owners: Residence 128 VIA SEGO TORRANCE, CA 9027	77
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SHEET TITLE : DEMO PL ELEVATION	
SCALE: As indicate	ed
SHEET NO:	
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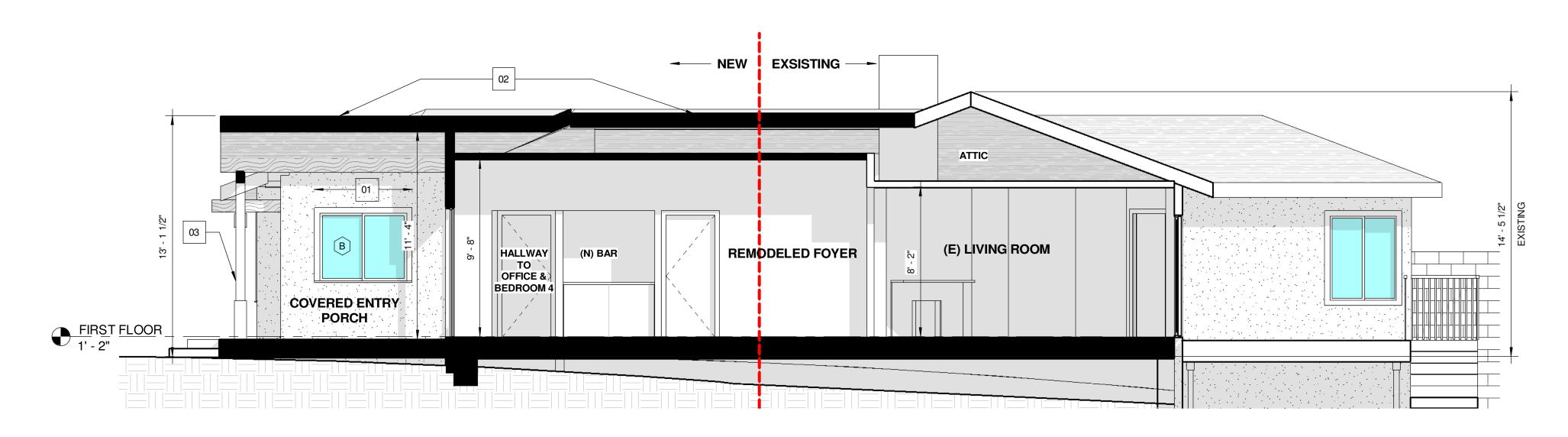
BENCHMARK:

3 EXISTING HOUSE/ DEMO PLAN

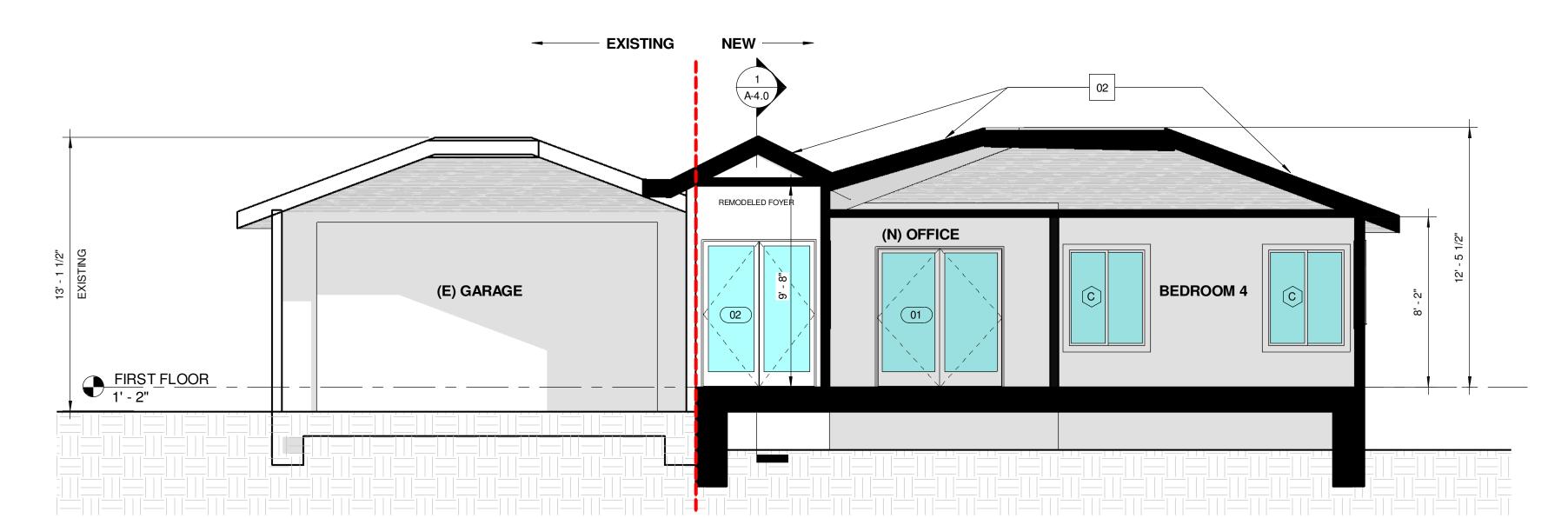
1/8" = 1'-0"



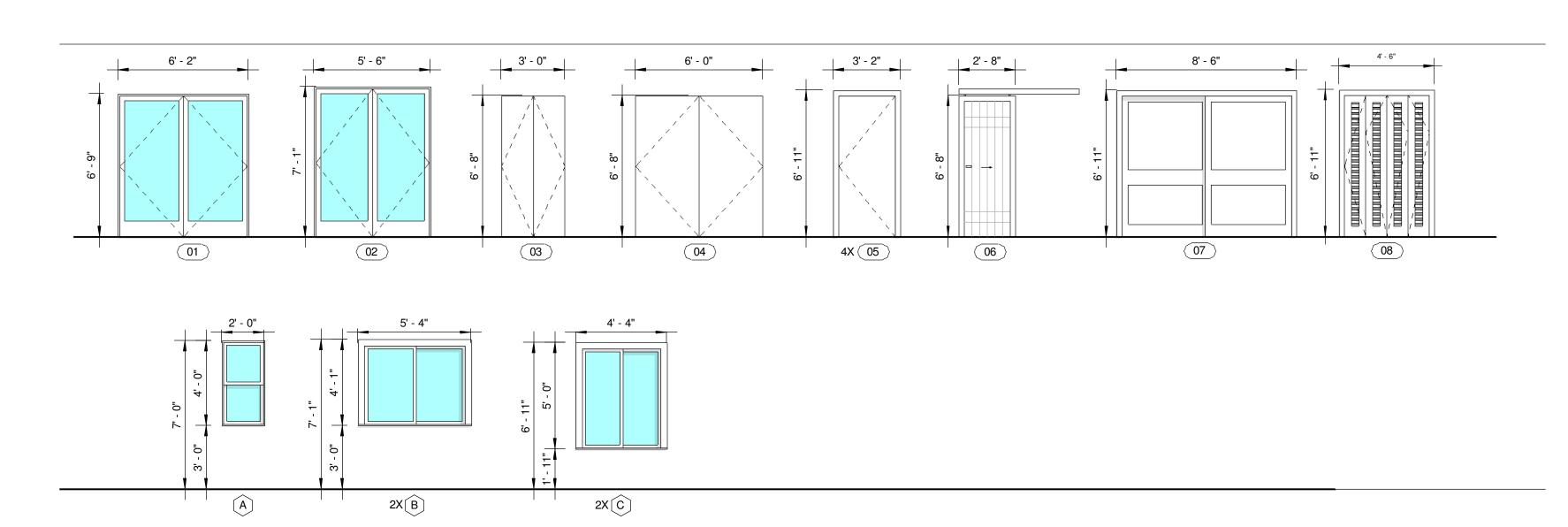




SECTION THRU FOYER



SECTION THRU GARAGE LOOKING FRONT ENTRY 1/4" = 1'-0"



4 DOOR AND WINDOW SCHEDULE

KEYNOTE / LEGEND

- 01 NEW STUCCO TO MATCH EXISTING
- NEW CLASS 'A' COMPOSITION SHINGLE 02 ROOF TO MATCH THE EXISTING ROOF (SEE SHEET A-2.1 FOR SPECS
- 03 NEW WOOD POST TRELLIS
- 04 CRAWL SPACE VENT
- PROPOSED ADDITION

EGRESS DIAGRAM

R612.3 Window fall prevention devices.

R612.4 Window opening limiting devices.

requirements of ASTM F 2090.

R612.4.1 General requirements.

MIN. SIZEWINDOW

1. 20" MIN. CLEARWIDTH

2. 24" MIN. CLEAR HEIGHT

3. 5.7 SFMIN. OPENABLE AREA

FOR 20" CLEAR WIDTH

provisions of this section.

opening when the opening is in its largest opened position.

In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window

shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the

1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the

2. Openings that are provided with window fall prevention devices that comply with Section R612.3.

3. Openings that are provided with fall prevention devices that comply with ASTM F 2090.

4. Windows that are provided with opening limiting devices that comply with Section R612.4.

Window fall prevention devices and window guards, where provided, shall comply with the

When required elsewhere in this code, window opening limiting devices shall comply with the

Window opening limiting devices shall be self acting and shall be positioned to prohibit the free

opening limiting device is installed in accordance with the manufacturer's instructions

passage of a 4-in. (102-mm) diameter rigid sphere through the window opening when the window

34-1/8" CLEAR

MIN. SIZEWINDOW

FOR24" CLEARHEIGHT

FLOORLEVEL

R612.2 Window sills.

finished floor.

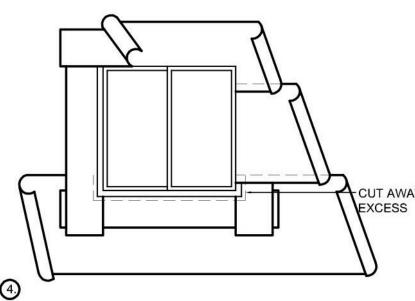
Exceptions:

WATERPROOFING DETAIL

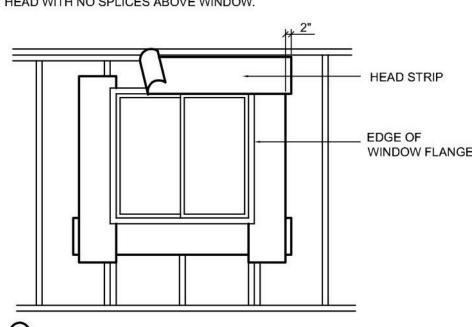
NOTES

NOTES: SECTION 1402.2 UNIFORM BUILDING CODE CALLS FOR FLASHING OF ALL EXTERIOR OPENINGS EXPOSED TO WEATHER TO MAKE THEM WEATHERPROOF. THIS IS OUR RECOMMENDED PROCEDURE FOR WINDOW FLASHING IN WOOD FRAMED EXTERIOR WALLS WHERE THE EXTERIOR WALL FINISH IS APPLIED OVER BUILDING PAPER OR FELT. USE "MOISTOP" FLASHING OR EQUAL WHENEVER POSSIBLE FOR FLASHING MATERIAL. BITUTHENE BACK, JAMB FRAMING AND 6" FRONT AT ALL SIDES OF WINDOW FRAMES BEFORE SETTING. USE WINDOWS THAT ARE WATERTIGHT.

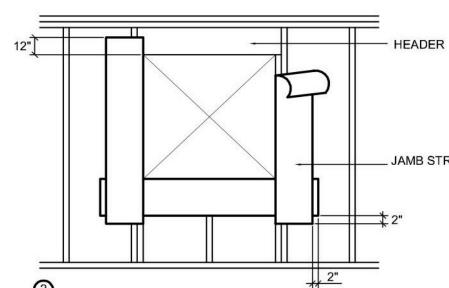
LINE-WIRE, WHEN USE AS BACKING TO SUPPORT BUILDING PAPER BENEATH WIRE LATH FOR STUCCO. SHOULD BE INSTALLED ACCORDING TO INDUSTRY STANDARDS AND PRACTICE. NO ATTACHMENT DEVICE NOR THE WIRE BACKING SHOULD COVER OR PENETRATE FLASHING MATERIAL. PERIPHERAL FLASHING AT ALL EDGES OF WALL OPENING MUST COVER THE WIRE BACKING.



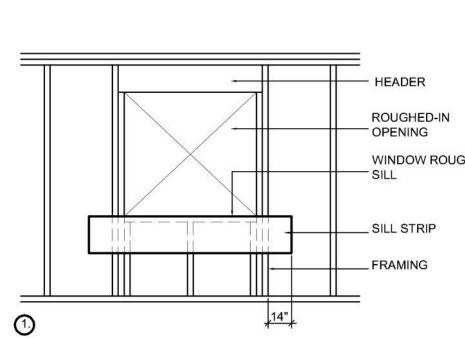
STARTING AT THE BOTTOM OF THE WALL (SOLE PLATE), LAY BUILDING PAPER UNDER THE SILL STRIP. CUT AWAY ANY EXCESS BUILDING PAPER THAT MAY EXTEND ABOVE THE SILL FLANGE ON EACH SIDE OF THE OPENING. APPLY SUCCESSIVE LINES OF BUILDING PAPER OVER JAMB AND HEAD FLANGES, LAPPING EACH COURSE. PAPER SHOULD RUN CONTINUOUSLY OVER HEAD WITH NO SPLICES ABOVE WINDOW.



APPLY A CONTINUOUS BEAD OF SEALANT TO THE BRICK SURFACE OF THE WINDOW FLANGE. INSTALL WINDOW INTO ROUGH OPENING OVER SILL AND JAMB FLASHING STRIPS PER MANUFACTURER'S REQUIREMENTS. APPLY CONTINUOUS BEAD OF SEALANT TO THE FACE OF THE WINDOWS TOP FLANGE. ATTACH THE HEAD FLASHING OVER THE WINDOW FLANGE. THIS IS ANOTHER STRIP 12" WIDE WITH A 2" MINIMUM LAP BEYOND THE JAMB STRIPS.



AFTER SILL STRIP IS IN PLACE, ATTACH JAMB STRIP AT LEAST 12" WIDE WITH INSIDE EDGE OF FLASHING ALIGNED WITH EDGE OF WINDOW OPENING. JAMB STRIPS 12" ABOVE THE LOWER EDGE OF THE HEADER, TOP OF WINDOW OPENING.



ATTACH SILL STRIP OF FLASHING MATERIAL AT LEAST 12" WIDE WITH THE TOPEDGE ALIGNED WITH THE TOP EDGE OF THE ROUGH, (SLOPED) SILL. EXTEND THIS SILL STRIP AT LEAST 14" BEYOND THE EDGE OF THE ROUGH OPENING FOR WINDOW, 2" BEYOND THE JAMB STRIP. ATTACH FLASHINGWITH CORROSION RESISTANT NAILS OR RUST-RESISTANT STAPLES

ARCHITECTURE & INTERIOR DESIGN 190 N. Canon Drive Suite # 313 Beverly Hills, CA 90210

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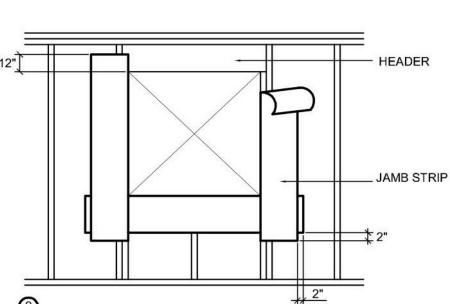
310.709.1222

PROJECT DIRECTORY:

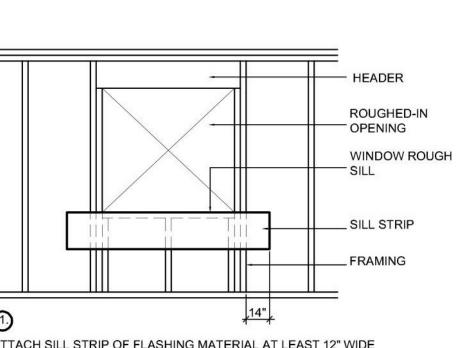
DESIGNER:

Ames Peterson Design Studio 190 N. Canon Drive Suite 313 Beverly Hills, CA 90210 310.709.1222

ENGINEER: Valley Home Design 14423 Sylvan Street Van Nuys, CA 91401 818.908.9851



START JAMB STRIPS 2" BELOW THE SILL STRIP AND EXTEND



CLIENT:

Project Address & Owners: Residence 128 VIA SEGO **TORRANCE, CA 90277**

DATE PRINTED: **BENCHMARK:** 6/27/2017 1:02:59 PM SHEET TITLE:

PROPOSED SECTIONS/ DOOR **AND WINDOW SCHEDULE**

As indicated

SHEET NO: