						APPLICANT AGREEMENT
			=			APPLICANT AGREES TO PROMDE ALL NECESSARY INFORMATION REQUIRED TO COMPLETE THESE CONSTRUCTION DOCUMENTS, MODIFICATIONS TO THE PERMIT READY DOCUMENTS PROVIDED BY
			Α	accessory Dwelling	Unit	APPIONIT LOSTES TO PROJECT ALL ACCESSION PERSONNELS REQUIRED TO COMPLETE THESE CONCENTRATIONS ODMERST: RESPONSIONS TO THE PRIVATE ACCESSION PRIVATE STATE OF THE PRIVATE ACCESSION PRIVATE STATE ACCESSION PRIVATE
						WHO PREPARED THE INFORMATION. THE FOUNDATION DESIGN FOR THESE PERMIT READY CONSTRUCTION DOCUMENTS ASSUMES STANDARD SILIC CONCITIONS AND LEVEL TOPOGRAPHY, IF SITE SPECIFIC CONDITIONS REQUIRE A FOUNDATION DESIGN BEYOND WHAT IS PROVIDED IN THESE
			1 B	Bedroom Plan1A - 7	30 s.t.	
				Moreno Valley, C	`Λ	BY SIGNING BELOW THE APPLICANT AGREES TO AND AFFIRMS ALL STATEMENTS INCLUDED HERDIN AND WILL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
				world valley, C		
						SIGNATURE: DATE:
	SHEET INDEX					HERS NOTES
	TITLE SHEET EXTERIOR STYLE OPTIONS	_	CONTACT LOCAL	UTILITY COMPANIES REGARDING GAS	AND ELECTRIC SERVICES TO	
AS.1 G0.1	SITE INFORMATION RESIDENTIAL MANDATORY FEATURES 2022 CALGREE			ADU. SEE EXAMPLE SITE PLAN, SHEET		INSTALLATION (CEZE FORMS) SHALL BE POSTED WEATHER PROTECTED WITHIN BUILDING FOR REVIEW BY INSPECTORS — EES 10-103(A)3, 10-103(B)1A — BY THE INSTALLING CONTRACTOR AND SIRBUTED TO THE FEFLO INSPECTOR DIVINING CONSTRUCTION
G0.2 G0.3 A0.1	GENERAL NOTES GENERAL NOTES SCHEDULES		11110 0217(01)20	, 180, 012 2,0 km 22 01, 21 2, km, 01, 22 1,	AGIZ, FOR MORE IN ORAM TION	AT THE SITE, FOR PROJECTS REQUIRING HERS VERIFICATION, THE CF2# FORMS SHALL BE REGISTED WITH A CALIFORNIA APPONED HERS PROMDER DATA REGISTRY MITH ITS OWN UNIQUE 21 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE
A1.1 A1.2	FLOOR PLAN/ROOF PLAN CRAFTSMAN BASE FLOOR PLAN/ROOF PLAN CRAFTSMAN COMPONENT	ZONINI	C INICODMATION	DIDECTORY) //OINUTY/ MAD	1. INSPECTATION OF CLIENTONIAL VISION CERTIFICATION OF THE STANLARD OF CONTROL OF COMMON PARTICIPATION OF THE STANLARD OF CONTROL OF CONTROL OF COMMON PARTICIPATION OF THE STANLARD OF THE ST
A1.3 A1.4 A2.1	FLOOR PLAN/ROOF PLAN SPANISH BASE FLOOR PLAN/ROOF PLAN SPANISH COMPONENT MECHANICAL (BUILDING AT ECTRICAL PLANS		G INFORMATION TY OF MORENO VALLEY FOR THE INFORMATION BELOW	DIRECTORY	VICINITY MAP	2. PROPERLY COMMETTED & ELECTROPHICALLY SORDE AND RESISTENCE CERTIFICATION OF PROPERTY CHARGE (OF THIS OF CORP) AND LE PROTEID REPORT OF PROPERTY OF PROPERTY OF THE PROPERTY
A3.1 A3.2	MECHANICAL/PLUMBING/ELECTRICAL PLANS EXTERIOR ELEVATIONS CRAFTSMAN BASE EXTERIOR ELEVATIONS CRAFTSMAN COMPONENT EXTERIOR ELEVATIONS SPANISH BASE	building@mor	val.org PHONE: (951)413-3380	SITE PLAN & TITLE SHEET INFORMATION PREPARED BY: COMPANY	PROVIDED BY OWNER	WILL HAVE A UNIQUE 25 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE
A3.4 A4.1		ZONING : OVERLAY :		CONTACT ADDRESS		CF2R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF3R IS REVEWED AND APPROVED. EES 10-103(8)3, 10-103(8)1.A.
A4.2 A4.3 A4.4	EXTERNE ELEVATIONS SPANISH COMPONENT BUILDING SECTIONS CONTRIBANA BUSS BUILDING SECTIONS CONTRIBANA BUSS BUILDING SECTIONS CONTRIBANA BUSS BUILDING SECTIONS SPANISH COMPONENT AROUTECTRAL EXTEROR BALL BETALS AROUTECTRAL LOTTEROR BALL BETALS STRUCTURAL BOTTEROR BALL BETALS STRUCTURAL BOTTEROR BALL BETALS AROUTECTRAL BOTTEROR BALL BETALS STRUCTURAL BOTTEROR BALL BETALS FRANCHER HOUSE STRUCTURAL BOTTEROR BALL FRANCHER HOUSE STRUCTURAL BOTTER STRUCTURAL BOT	LOT SIZE :		PHONE: EMAIL		3. C'ER REGISTRATION FORMS ARE LOCATED ON THE PLANS, IF REGISTRATION IS REQUIRED, A WATER-MARK AND REGISTRATION NUMBER WILL BE VISSBLE. 4. HERS TESTS REQUIRED FOR THIS PROJECT ARE: VARIABLE CAPACITY HEAT PUMP —
A5.1 A5.2 S1	ARCHITECTURAL EXTERIOR WALL DETAILS ARCHITECTURAL ROOF DETAILS STRUCTURAL NOTES	EXISTING HABITABLE SQ. FT. : EXISTING FAR :		PROPERTY OWNER:		4. HERS TESTS REQUIRED FOR THE PROCEST MES. WANABLE CAPACITY HAST THUS - SCRITCHS WHITE DIRECTLY CONTINUE IN CONSISTING PROCESSION OF MAINTAINE ECOLIS, WILL MOUNTED TREMOSTAT IN ZONES GREATER THAN 150 S.F., VERRY HEAT FAME FROMES, LOPACITY, AND REPROCESTAT OWNER, KITCHEN ANNUE HOUD CON HERPECATION (FOR CITY), — 3 SONES) JAM DECHANCAL VENTLATION - SEE NEW DUCTHING REQUIREMENTS TABLE 150.0-H. VERY ALL INSTEAS WHIT PORTATION ITS SET REQUIREMENTS TABLE
11.1 (1.1 (1.1 (1.1 (1.1 (1.1 (1.1 (1.1	FOUNDATION PLANS BASE FRAMING PLANS BASE FOUNDATION PLANS COMPONENT	MAX. ALLOWABLE FAR :		NAME ADDRESS		3 JUNES) INQUENCHANCIAL VENILARIUM - SEE NEW DUCTING REQUIREMENTS TABLE 150.0-H. VERFY ALL TESTS WITH UPDATED HERS TEST REQUIREMENTS. 5. FOR IAO FAN - SEE UPDATED SITE SPECIAC TOA SHIFTS FOR CITAL REQUIREMENTS.
\$3.1 \$4	FRAMING PLANS BASE FOUNDATION PLANS COMPONENT FRAMING PLANS COMPONENT STRUCTURAL DETAILS STRUCTURAL DETAILS	PROPOSED FAR :		PHONE: EMAIL		150.0-H. VERFY ALL TESTS WITH UPDATED HERS TEST REQUIREMENTS. 5. OR IAN OFF M.— SEE UPDATED SEE SEPCIFIC TO SENTETS FOR OWN REQUIRED FOR A CONTINUOUSLY OPERATING DEHALST FAIR PROVIDE A THEIR SHITCH WITH A MANUAL OFF AND A SOURD MATING OF 1500C CE SASIES MAY OFF AN INTERNITION FAIR MAY DETERMINED ROOM AND OUT OF SOURCE. A WITHOUT SET WITH A MAY DETERMINED TO PROVIDE A WITHOUT SET WITHOUT SET WITH A MAY DESCRIBE A MAY DEATH OF 25. OR ASSOCIATION OF THE CHARGE SET WITHOUT OF THE CLUTTERS AND DEATH OF THE CLUT
50 T24.1 T24.2 T24.3	SINUCIONAL DEIALS ENERGY CALC. ENERGY CALC. ENERGY CALC.	FLOOR AREA OF GARAGE: EXISTING LOT COVERAGE:		BUILDING DEPARTMENT:		COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. A BY SYSTEM SOLAR, BY NOT RECYMPED WHEN LESS THAN 1 88/8/44.
T24.3	ENERGY CALC.	ALLOWABLE LOT COVERAGE :		CITY OF MORENO VALLEY BUILDING & SAFETY DEPARTMENT 14177 FREDERICK STREET MORENO VALLEY, CA 92553		6. PV SYSTEM SQLAR: PV NOT REQUIRED WERN LESS THAN 1.88-Web. MINNMUM PV SZE BASED ON EXAMPLE DERROY CALCULATIONS: TO BE UPDATED WITH SITE SPECIFIC DIERROY CALCULATIONS:—PLEASE SEE FLOOR FLAM SHEET FOR SQLAR NOTES:
		PROPOSED LOT COVERAGE :		MORENO VALLEY, CA 92553 P. (951)413-3380		OA - 1.68kWdc OB - 1.4OkWdc 1A - 1.75kWdc
DIIII	DING INFORMATION	ADU SETBACKS FROM PROPERTY	LINE	PROJECT DESCRIPTION		Oh = 1.80m/stdc Oh = 1.46m/stdc 1A = 1.75m/stdc 1B = 1.77m/stdc 2B = 2.0m/stdc 3 = 2.30m/stc
		ALLOWED : FRONT-	PROPOSED: FRONT— RFAR—	NEW CONSTRUCTION OF A ONE STORY 1 REDPOOM 1 BATH		7. SPECIAL FEATURES: VCHP REQUIRED ITEMS LISTED ABOVE AND NEEA RATED HEAT PUMP WATER HEATER; SPECIFIC BRAND/NODEL OR EQ.
GOVERNING CODES:	APPROVAL OF THIS PROJECT SHALL COMPLY WITH THE 2022 CAUFORNIA BUILDING CODE, CAUFORNIA RESIDENTIAL CODE (CRC), CAUFORNIA MECHANICAL CODE (CMC), CAUFORNIA PLUMBING CODE (CPC), CALIFORNIA	SIDE- STREET SIDE-	SIDE- STREET SIDE-	DETACHED 730 S.F. ACCESSORY DWELLING UNIT WITH PORCH A USED BELOW:	REAS AT	8. NEW 2022 ELECTRIC READY REQUIREMENTS. PROVIDE SPACE FOR HEAT PUMP WATER HEATER. A 240Y OUTLIT IS REQUIRED FOR WATER HEATER, DHYER, AUTLICHARGING, AND STOVE INCLUDING BREAKER SPACE, ENERGY STORAGE SYSTEM FOR A PUTURE BATTERY SYSTEM (BATTERY HEATY) IS REQUIRED IF PULL SYSTEM IS NOT INSTALLED.
	MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA ENERGY CODE (CEC), CALIFORNIA GR BUILDING CODE (CGBC) AND CITY OF MORENO VALLEY MUNICIPAL CODE.	REEN SINEET SIDE-	SIMELI SIDE-	SPANISH: 312 S.F SPANISH COMPONENT: CRAFTSMAN COMPONENT: 312 S.F	307 S.F.	SYSTEM (BATTERY READY) IS REQUIRED IF FULL SYSTEM IS NOT INSTALLED.
SITE ADDRESS:		ADU SETBACKS FROM MAIN RESI	DENCE PROPOSED :	LEGAL DESCRIPTION	APN	EXAMPLE GAS PIPE DIAGRAM
		ACCOMED .	PROPOSED .			TO BE UPDATED FOR SITE SPECIFIC CONDITIONS
GOVERNING AGENCY: OCCUPANCY GROUP: STORIES:	CITY OF MORENO VALLEY, CA. R3 1	OFF STREET PARKING :				NOTE: EXSTING CAS SERVICE AND METER SZE TO BE PROVIDED BY HOMEOWER AND UPDATED BROMETRIC LAYOUT PROVIDED BY DESIGNED OF CHOICE. OF H & BYUS PROVIDED AS SUGGESTED LOADS, COMER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION.
TYPE OF CONSTRUCTION	N: VB	REQUIRED:	PROWDED:			Specific Section 15 to 17 YOUR ACCOUNT IN PROVIDENCE OF THE PROVIDENCE OF THE SECTION OF THE TO PROVIDE TO THE CITY OF MOMENTA VALUE BY LUDION EMPETORS
			<u>`</u>	LEMENTAL INFORMATION - TO BE		VALLEY BULDING REPECTOR
		exterior wall r	naterial:	deferred submittals - separate	x selection	(E)GAS METER BY PG&E CPH (-' LENGTH)
x COMPLETED	by applicant:		PAL DWELLING UNIT	permit to be obtained by applicant:	ADU TO HAVE NEW CONNECTION TO CITY SEWER MAIN	-" PIPE (N)ORYER (S) CFH
	NFORMATION FILLED OUT		PAL DWELLING UNIT S TO MATCH PRINCIPAL DWELLING UNIT)	X TO BE COMPLETED	ADU TO CONNECT TO CHISTING RESIDENCE SEVER LATERAL. BUSTON HE KUSE HAS FORD OR MORE TICLES WITH AN EISTING 3 INCH SEWER DRAIN, A SEPARATE CONNECTION TO THE CITY SEWER HAM NO SERVICES FOR THE NEW ADU, REPER TO CURRENT COC SECTION TO SET OR PRE 32XX FOR EQUIREMENTS.	(-' LENGTH) 35 CFH
	IS 2) PROVIDED IN PLAN SET FOR CITY REVIEW ENERGY GALGULATION REPORT WITH CORRECT NAME, ADDRESS.	STUCCO / COLOR		FIRE SPRINKLERS (WHEN REQUIRED) TRUSS CALCULATIONS (WHEN REQUIRED)	SEPTION - REQUIRES MAY THE CIT SHAPE MANY A REPORT OF THE NEW ALLOW REPORT OF CURRENT CPC SECTION 7032 FOR PIPE SZING REQUIREMENTS SEPTIO - REQUIRES HEALTH DEPARTMENT APPROVAL.	(N)RANGE & OVEN & OPN
AND EXACT OPIENTS THE ENTITY WHO PR UPDATES TO THE RE	ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS, ATION FOR SITE SPECIFIC CONDITIONS, OWNER MAY CONTACT REPARED THE ORIGINAL REPORT (SHOWN ON T24.1) TO OBTAIN IPORT,	FIBER CEMENT - SIDING / COLOR_		PHOTOVOLTAC SYSTEM - THE PY SYSTEM MUST BE INSTALLED, OPERATIONAL AND FINAL PIGGET TO TIME BUILDING INSPECTION AND APPROVAL FOR THE ADUL (WHEN RECURRED) THEREES AN EXISTING PHOTOVOLTAC SYSTEM OF SUPFICIENT SIZE ON THE MANNH HOUSE TO ACCOMMISSIONE THE NEW ADULTHEN HOMEOWINER IS TO PROVIDE A REPORT STATING THE EXISTING SIZE OF THE YEMALL.	DISTANCE TO CONNECTION	les cFil.
CONSTRUCTION AND	D DEMOLITION FORM	WOOD SIDING / COLOR			fire sprinkler information:	35 65 GAS CALGULATIONS
exterior s	style selection:	OTHER		roof framing: × selection	x SELECTION	APPLIANCE DTY OFH TOTAL OFH (NEW) DRYER 1 35
x SELECTION		roof material:		ROOF FRAMING PER PLAN	EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS	(NEW) OVEN & RANGE 1 65
CRAFTSMAN BASE	-	X SELECTION: ROOFING MAT		ROCE TRUSSES. IN LIEU OF ROCE DETAILS PROVIDED ON THESE PLANS, NOMEOWHER IS TO CONTRACT WITH AND INDEPENDENT TRUSS COMMAY AND SUMMIT FILES CALCULATIONS TO THE CITY OF MOREINO VALLEY FOR APPROVAL, NDICATE ON DETERMED SUBMITFAL CHECKIST MODULE TRUSS PACAGES WILL BE PROVIDED AS A DEPERMED SUBMITFAL	EXISTING RESIDENCE DOES NOT CURRENTLY HAVE FIRE SPRINKLERS	TOTAL GAS LOAD FOR HOUSEHOLD
GRAFTSMAN COMPO	ONENT	ROOF COLOR OF PRINCIPAL DWELL (ROOF COLOR OF ADU IS TO MATCH			PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHSF2)	TOTAL GAS LIDAD FOR HOUSENGLD APPLIANCES - HOUSENGLD 100 GPH 2"
SPANISH BASE SPANISH COMPONER	NT	TRIM COLOR OF PRINCIPAL DWELL (TRIM COLOR OF ADU TO MATCH PR		fire rated details: × SELECTION	PROPERTY <u>BANOT</u> LOCATED IN THE VERY HIGH FIRE HAZARD SIZENTY ZONE (WISP2) WHW ADUIS REQUIRED TO HAVE RIRE SPRINKLERS IF THE EXISTING RESIDENCE HAS FIRE SPRINKLERS ON IS LOCATED IN WIFEZ. SEE NOTES ON GG.3 AND FIRE RATED DETAIL.	PIPE SIZE SCHEDULE 40 METALLIC PIPE 125' LENGTH PER TABLE 1216.2(1) CALIFORNA PLUMBING CODE
		CONCRETE TILE ROOF - EAGLE ROOM MINIMUM 2-1/2:12 ROOF SLOPE. COLOR OF CONCRETE TILE ROOF_	OF PRODUCTS INC IAMPO UES-ER 1900	ROOF EAVE DETAIL 1,2,3,5,6,7/45,2	window and trim color:	SIZE 32" 34" 1" 134" 134" OFH 44 92 173 355 532
electrical			CERTAINTEED - ICC-ES ESR-3537	WALL FINISH DETAIL 98,129,159/A5.1 FRE RATED DETAILS ABOVE ARE TO BE USED WHEN THE PROPERTY IS LOCATED IN THE VERY	X SELECTION	lat size and immediate
X SELECTION UPGRADED SERVICE		OTHER ROOF MATERIAL / COLOR /		FREE RAND DUTTERS JAMES ARE TO BE USED. WHEN THE PROPERTY IS SECURED. IN THE USED WHEN THE RESOURCE AND THE PROPERTY LIKE OF THE PROPERTY LIKE IN AN UNSERNINGERED BULCHOO OF LISES THAN SET FROM PROPERTY LIKE IN SHAN THE PROPERTY LIKE IN THE PROPERT	WINDOW COLOR OF PRINCIPAL DWELLING UNIT_ (WINDOW COLOR SELECTION BELOW FOR THE ADU IS TO MATCH PRINCIPAL DWELLING UNIT WINDOW COLOR).	lot size and impervious area:
EXISTING SERVICE TO	DREMAIN			Fig. RATED DETALS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT FROM THE MAIN DWELLING UNT IN AN UNSPRINKLERED BUILDING OR LESS THAN 6 FT FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING.	WINDOW COLOR) WHITE	(Existing building footprint; patios, decks, hardscape, etc.) Total Area of Existing Impervious Surfaces =
NEW SERVICE		gas service in	formation:	NEW BUILDING FOR WHICH APPLICATION FOR A BUILDING PERMIT IS SUBMITTED ON OR AFTER JULY 1, 2008, LOCATED IN AMY FRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE RICE ARE SHALL COMBLY TIME ALL SECTIONS OF THE CAL FORMY BUILDING COOR CHAPTER TA (SPIN) MATERIALS AND CONSTRUCT ON METHODS FOR EXTERIOR WILDER FRE EXPOSURE	TAN	(Existing building foxprint, patios, decks, hardscape, etc.) Total Area of New Impervious Surfaces =
SIZE OF EXISTING SE	RVICE SIZE OF NEW SERVICE	X SELECTION UPGRADED SERVICE		(SPM) MATERIALS AND CONSTRUCT ON METHODS FOR EXTERIOR WILDE FREE EXPOSURE	DARK BRONZE	(Increase to building footprint, patios, decks, hardscape, etc.) Total Area of Replaced Impervious Surfaces =
		EXISTING SERVICE TO REMAIN		x selection	OTHER WINDOW COLOR.	(Peplacement to building footprint, paties, decks, hardscape, etc.)
		NEW SERVICE		PROPERTY IS IN A FLOOD ZONE FIN A FLOOD ZONE, WORKING WITH A PLANS EXAMINER TO DETERMINE THE REQUIRED BASE. FLOOD AND DESIGN FLOOD ELEVATION IS REDUIRED PRIOR TO PERMIT APPROVAL.	WINDOW TRIM COLOR OF PRINCIPAL DWELLINS UNIT	
		SIZE OF EXISTING SERVICE	SIZE OF NEW SERVICE	ELOCO AND DESIGN ELOCO ELEVATION DE DECLIDER DA CO ELEVATION EL DECLIDER DA COLOR DE		

City of Moreno Valley Permitted ADU Plan Set

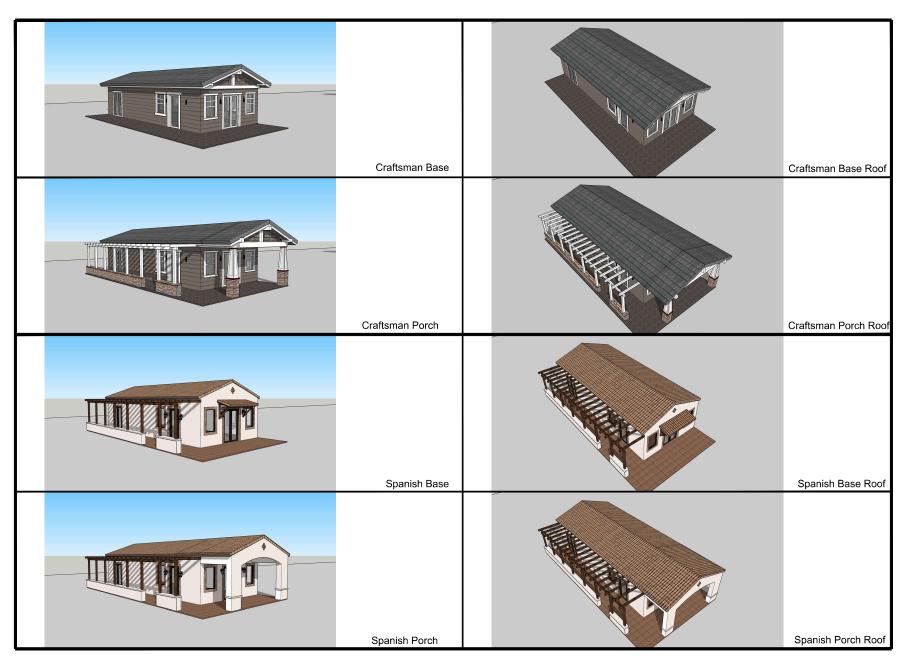
 \triangle

Title Sheet

date

project no. 2024_Mareno ADU

drawn by



STUDIO DESIGN PATH

architecture + engineering + planning P.O. BOX 230165 ENCINITAS, CA 92023 -- 619.292.8807

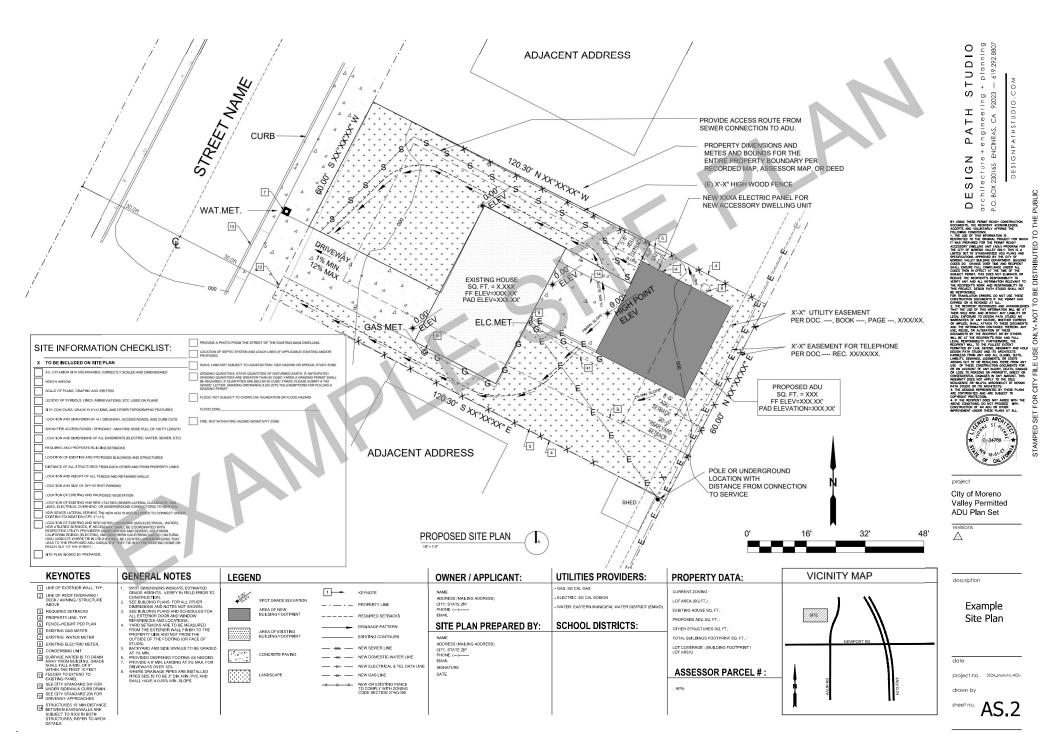


project

City of Moreno Valley Permitted ADU Plan Set

 \triangle

description Exterior Style Options



FOLLOWING CONDITIONS:

BE RESPONSIBLE

CF1R-PRF-01-E

(Page 2 of 12)

Total² EDR

(EDR2total)

1.1

2.8

1.3

2.3

Calculation Date/Time: 2024-10-04T10:17:23-07:00

(EDR2total)

29.4

28.3

26.6

28.1

27.1

Registration Date/Time: 10/04/2024 10:18

Calculation Date/Time: 2024-10-04T10:17:23-07:00

Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

1.32

1.87

1.86

1.5

1.5

1.88

1.88

1.32

Report Version: 2022.0.000

Standard Design (kBtu/ft² - yr) | Proposed Design (kBtu/ft² - yr) | Compliance Margin (kBtu/ft² - yr)

22.36

8.38

21.81

7.84

22.18

21.8

7.82

Schema Version: rev 20220901

Proposed Design

RESULT³: PASS

Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

Source Energy

(EDR1)

1.5

2.7

2.3

2.3

Compliance Margins

Efficiency¹ EDR

(EDR2efficiency)

2.1

4.5

HERS Provider: CHEERS elated to CHEERS. Therefore, CHEERS is not responsible for,

Report Generated: 2024-10-04 10:18:25

CF1R-PRF-01-E

Margin Percentage

5.57

13.61

7.9

19.18

6.33

15.46

7.94

19.38

(Page 5 of 12)

 \bigcirc

9

ACCEPTS AND VOLUNTARILY AFFIRMS THE

USE, REUSE, OR ALTERATION OF THESE

RECIPIENT WILL, TO THE FULLEST EXTENT

PATH STUDIO OR ITS ARCHITECTS.

COPYRIGHT PROTECTION.

ARE COPYRIGHTED AND ARE SUBJECT TO

CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

ABOVE CONDITIONS, DO NOT PROCEED WITH

ADU Plan Set

date

project no. 2024_Moreno ADU

drawn by

sheet no.

BUILDING ENERGY ANALYSIS REPORT PROJECT: Moreno Valley 1 Bed 1A ADU Base Moreno Valley , CA 92555 Project Designer: Design Path Studio P.O. Box 230165 Encinitas, CA 92023 Report Prepared by: Design Path Studio Job Number: 10/4/2024 The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and i authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

CF1R-PRF-01-E CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Moreno Valley 1 Bed 1A ADU Base **Calculation Date/Time:** 2024-10-04T10:17:23-07:00 (Page 3 of 12) Calculation Description: Title 24 Analysis Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

This program developed by EnergySoft, LLC – www.energysoft.com.

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	1.35	6.18	2.15	15.42	-0.8	-9.24
Space Cooling	1.48	32.47	1.14	28.07	0.34	4.4
IAQ Ventilation	0.38	4.03	0.38	4.03	0	0
Water Heating	2.62	26.55	1.55	17.96	1.07	8.59
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	5.83	69.23	5.22	65.48	0.61	3.75
Space Heating	1.35	6.18	1.76	12.55	-0.41	-6.37
Space Cooling	1.48	32.47	0.99	25.24	0.49	7.23
IAQ Ventilation	0.38	4.03	0.38	4.03	0	0
Water Heating	2.62	26.55	1.54	17.92	1.08	8.63
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	5.83	69.23	4.67	59.74	1.16	9.49

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Cand cannot guarantee, the accuracy or completeness of the information contained in this document. Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS Report Generated: 2024-10-04 10:18:25 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Calculation Date/Time: 2024-10-04T10:17:23-07:00 (Page 6 of 12) Project Name: Moreno Valley 1 Bed 1A ADU Base Calculation Description: Title 24 Analysis Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

REQUIRED PV SYS	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
1.75	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
						/-/					

REQUIRED SPECIAL FEATURES he following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis Exposed slab floor in conditioned zone Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

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 detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry Quality insulation installation (QII)

Indoor air quality ventilation Kitchen range hood Verified Refrigerant Charge Airflow in habitable rooms (SC3.1.4.1.7) Verified heat pump rated heating capacity Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5) Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION 04 05 06 07 **Number of Dwelling Number of Water** Number of Ventilation **Number of Zones Project Name** Number of Bedroom **Cooling Systems Heating Systems** Units loreno Valley 1 Bed 1A ADU

Registration Date/Time: 10/04/2024 10:18

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Calculation Date/Time: 2024-10-04T10:17:23-07:00

01	Project Name	Moreno Valley 1 Bed 1A ADU Base	reno Valley 1 Bed 1A ADU Base							
02	Run Title	Title 24 Analysis	e 24 Analysis							
03	Project Location	- // / / / /								
04	City	Moreno Valley	05	Standards Version	2022					
06	Zip code	92555	07	Software Version	EnergyPro 9.2					
08	Climate Zone	10	09	Front Orientation (deg/ Cardinal)	All orientations					
10	Building Type	Single family	11	Number of Dwelling Units	1					
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1					
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1					
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0.3					
18	Total Cond. Floor Area (ft ²)	730	19	Glazing Percentage (%)	22.34%					
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a					
22	Fuel Type	Natural gas	23	No Dwelling Unit:	No					

COMPLIANCE RESULTS Building Complies with Computer Performance 02 This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. This building incorporates one or more Special Features shown below

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this documen Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS

S) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, Report Generated: 2024-10-04 10:18:25 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

Calculation Description	n: Title 24 Analysis		Input File Name: More	no Valley 1Bed1A ADUBase.ri	bd22x	
ENERGY USE SUMMARY	ente. Autoritaine seuro conferenciente de comme				-	
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2
Space Heating	1.35	6.18	1.68	12	-0.33	-5.82
Space Cooling	1.48	32,47	1.25	30.88	0.23	1.59
IAQ Ventilation	0.38	4.03	0.38	4.03	0	0
Water Heating	2.62	26.55	1.54	17.86	1.08	8.69
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	5.83	69.23	4.85	64.77	0.98	4.46
Space Heating	1.35	6.18	1.85	13.39	-0.5	-7.21
Space Cooling	1.48	32.47	1.06	26.01	0.42	6.46
IAQ Ventilation	0.38	4.03	0.38	4.03	0	0
Water Heating	2.62	26.55	1.55	17,96	1.07	8.59
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency	5.83	69.23	4.84	61.39	0.99	7.84

Registration Number: 424-P010237105A-000-000-000000-0000

NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this documen Registration Date/Time: 10/04/2024 10:18 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000

69.23

Compliance Total

Calculation Descriptio	n: Title 24 Analysis		Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x									
ZONE INFORMATION												
01	02	03	04	05	06	07						
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status						
1 Bed 1A ADU	Conditioned	Mini Split1	730	9.5	DHW Sys 1	New						
				<i>1.</i> /. / /								
OPAQUE SURFACES												
01	02	03	04 05	06	07	08						

PAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
Front Wall	1 Bed 1A ADU	R-19 Wall	0	Front	171	43.3	90
Right Wall	1 Bed 1A ADU	R-19 Wall	270	Right	320	52.5	90
Back Wall	1 Bed 1A ADU	R-19 Wall	180	Back	171	5	90
Left Wall	1 Bed 1A ADU	R-19 Wall	90	Left	320	62.3	90

OPAQUE SURFAC	ES - CATHEDRAL C	EILINGS				1				
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft ²)	Skylight Area (ft ²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Roof (cath)	1 Bed 1A ADU	R-30 Roof No Attic	0	Front	730	0	4	0.1	0.85	No

FENESTRATION	/ GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window (2) A	Window	Front Wall	Front	0			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
FrDoor 1	Window	Front Wall	Front	0			1	33.3	0.3	NFRC	0.23	NFRC	Bug Screen
Window B	Window	Right Wall	Right	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this documen HERS Provider: CHEERS ted to CHEERS. Therefore, CHEERS is not responsible for, Registration Date/Time: 10/04/2024 10:18 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2024-10-04 10:18:25 Schema Version: rev 20220901

(Page 1 of 12) Project Name: Moreno Valley 1 Bed 1A ADU Base Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x Calculation Description: Title 24 Analysis

4.84

61.39

Calculation Date/Time: 2024-10-04T10:17:23-07:00

0.99

CF1R-PRF-01-E (Page 7 of 12)

ation Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS formation uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, Report Generated: 2024-10-04 10:18:25 Schema Version: rev 20220901

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this document HERS Provider: CHEERS ated to CHEERS. Therefore, CHEERS is not responsible for Registration Date/Time: 10/04/2024 10:18 Report Generated: 2024-10-04 10:18:25 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Source Energy

36.2

34.7

33.5

33.9

33.9

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services and cannot guarantee, the accuracy or completeness of the information contained in this documen

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

23.68

23.68

23.68

9.7

23.68

9.7

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Project Name: Moreno Valley 1 Bed 1A ADU Base

Calculation Description: Title 24 Analysis

Gross EUI¹

Net EUI²

Gross EUI¹

Gross EUI¹

Gross EUI¹

Net EUI²

1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

ENERGY USE INTENSITY

North Facing

South Facing

West Facing

²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries

Proposed PV Capacity Scaling: North (1.75 kWdc) East (1.75 kWdc) South (1.75 kWdc) West (1.75 kWdc)

(EDR1)

Energy Design Ratings

Efficiency¹ EDR

(EDR2efficiency)

39.6

37.5

34.2

37.1

35.1

³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Project Name: Moreno Valley 1 Bed 1A ADU Base

Calculation Description: Title 24 Analysis

Standard Design

North Facing

East Facing

South Facing

West Facing

ENERGY DESIGN RATINGS

Project Name: N	/loreno valley	y 1 Bed 1A ADU	Base				Calculat	ion Date	!/Time: 2024	I-10-04T10:17	7:23-07:00		(Page
Calculation Desc	cription: Title	24 Analysis					Input Fi	le Name	: Moreno Val	lley 1Bed1A_	ADUBase.rib	d22x	
FENESTRATION /	GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterio
Window E	Window	Right Wall	Right	270			1	7.5	0.3	NFRC	0.23	NFRC	Bug :
Window D	Window	Right Wall	Right	270			1	12	0.3	NFRC	0.23	NFRC	Bug :
Window F	Window	Right Wall	Right	270			1	24	0.3	NFRC	0.23	NFRC	Bug S
Window (2) C	Window	Back Wall	Back	180	,		1	5	0.3	NFRC	0.23	NFRC	Bug :
SGDoor 5	Window	Left Wall	Left	90			1	33.3	0.3	NFRC	0.23	NFRC	Bug :
Window B.	Window	Left Wall	Left	90			1	9	0.3	NFRC	0.23	NFRC	Bug S
Fr Door 2	Window	Left Wall	Left	90			1	20	0.3	NFRC	0.23	NFRC	Bug

					_		-
SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	1 Bed 1A ADU	730	116	none	0	0%	No

OPAQUE SURFACE CONSTRUCTIONS

OFAQUE SURFACE CONS	INOCTIONS		and the second second				
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco

Registration Number: 424-P010237105A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (C and cannot guarantee, the accuracy or completeness of the information contained in this document. Registration Date/Time: 10/04/2024 10:18 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000

Registration Number: 424-P010237105A-000-000-000000-0000

NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (
and cannot guarantee, the accuracy or completeness of the information contained in this document

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Moreno Valley 1 Bed 1A ADU Base

HERS Provider: CHEERS ted to CHEERS. Therefore, CHEERS is not responsible for, Report Generated: 2024-10-04 10:18:25

Schema Version: rev 20220901

HERS Provider: CHEERS ated to CHEERS. Therefore, CHEERS is not responsible for Report Generated: 2024-10-04 10:18:25

 \bigcirc

CF1R-PRF-01-E

(Page 11 of 12)

Indoor Fan not

Certified

non-continuous

Fan

HERS Provider: CHEERS ted to CHEERS. Therefore, CHEERS is not responsible for

Report Generated: 2024-10-04 10:18:25

Calculation Date/Time: 2024-10-04T10:17:23-07:00

Air Filter Sizing

& Pressure

Drop Rating

IAQ Recovery

SRE/ASRE

n/a / n/a

Registration Date/Time: 10/04/2024 10:18

Report Version: 2022.0.000

Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. **Air Leakage.** All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be

Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Househol

Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).

Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the

roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified

Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Cons

Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor not exceeding U-0.184.

U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration.

as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.

Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood

Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material a

without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected fror physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).

Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class I vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to

§ 150.0(g)2: all insulation in all extended attics, and unvented attics with air-permeable insulation.

Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must be a space of the conditional space or outdoors must be a space or outdoors.

§ 150.0(e)1: Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square incharge and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.

Space Conditioning, Water Heating, and Plumbing System:

Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other

§ 110.3(c)6: Straight valves. Installations water houses are closed.

§ 150.0(k)1H: elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.

§ 150.0(k)2A: Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A. § 150.0(k)2B: Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *

Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned

Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified

must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.

Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-

§ 150.0(k)2F: Dimmers. Lighting in nabitable spaces (e.g., inving rooms, ultiming rooms, and beautions) most rare reason to the spaces mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light scurces in these spaces must comply with NEMA SSL 7A.

150,0(k)2K: Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or

150.0(k)3A: other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch

§ 150.0(k)2C: Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.

2022 Single-Family Residential Mandatory Requirements Summary

Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8

Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not require

power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabine

on and off.*

Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed.

in § 150.0(k)2A.

Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminair

shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.

Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or

control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meet applicable requirements may be used to meet these requirements.

Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5

watts of power.

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 garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the

application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency

which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).

Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with

access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160

Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof

mounted equipment.

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

soar zone, measure on the vertical piane.

Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.

Interconnection Pathways. The construction documents must indicate; a location reserved for inverters and metering equipment and

pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service, and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.

Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be

Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double po

110.10(b)1A: square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be

110,10(b)3B: horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the

110.10(e)2: main Electrical Service Fairer. The main electrical service Fairer in the main electrical service Fairer. The main electrical service Fairer in the main electrical service Fairer. The main electrical service Fairer in the main electrical service Fa

located on the roof or overhang of the building and have a total area no less than 250 square feet. *

110.10(e)1: Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

solar zone, measured in the vertical plane.

110.10(d): provided to the occupant.

5/6/22

110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.

to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of

§150.0(q).

Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of

3: regulated appliances must be certified by the manufacturer to the California Energy Commission.
HYAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.
Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone;

and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.

Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have

setback thermostat.*

Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank

Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with

framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *

Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the label

Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor

§ 150.0(q): a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

§ 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.

§ 110.5(e) Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.

caulked, gasketed, or weather stripped.

Masonry walls must meet Tables 150.1-A or B. "

Fireplaces, Decorative Gas Appliances, and Gas Log:

linen closet is closed.

§ 150.0(k)2B: to comply with § 150.0(k).

§ 150.0(k)2A:

150.0(k)4:

Goods and Services (BHGS).

Schema Version: rev 20220901

Wall Mount

Thermostat

No

Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

Ducts in

Conditioned

Space

Required Not required Not required Not required Not required

Indicator Display

Airflow per

SC3.3.3.4.1

RA3.3 and

FOLLOWING CONDITIONS:

BE RESPONSIBLE

EXPIRED OR IS REVOKED AT ALL.

USE, REUSE, OR ALTERATION OF THESE

OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE

OR LOSS TO PERSONS OR PROPERTY DIRECT OR

CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS

INDEMNITY DOES NOT APPLY TO THE SOLE

PATH STUDIO OR ITS ARCHITECTS.

1. THE USE OF THIS INFORMATION IS

project no. 2024_Moreno ADU

drawn by

sheet no.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E (Page 9 of 12) Project Name: Moreno Valley 1 Bed 1A ADU Base Calculation Description: Title 24 Analysis

Calculation Descri	ption: Title 24 Analy	/sis			Inp	ut File	Name: More	eno Val	ley 1Be	d1A_ADUBa	se.ribd22x		
WATER HEATING - H	IERS VERIFICATION			10									
01	02	2		03	04			05			06		07
Name	Pipe Ins	ulation	Pa	rallel Piping	Compact Distri	bution	Compac	t Distril Type	bution	Recircula	tion Control	Show	ver Drain Water He Recovery
DHW Sys 1 - 1/	'1 Not Red	quired	N	ot Required	Not Requir	ed		None		Not F	Required		Not Required
						1	1						
PACE CONDITIONII	NG SYSTEMS												
01	02	03		04	05		06			07	08		09
Name	System Type	Heating Uni	t Name	Heating Equipmer Count	Cooling Unit I	Name	Cooling Equip Count	oment	Fa	n Name	Distribution I	Name	Required Thermostat Type
Mini Split1	Heat pump heating cooling	Heat Pump	System	1	Heat Pump Sy	stem	1	1		n/a	n/a		Setback
							1.0	A					
HVAC - HEAT PUMP	S												
01	02	03	04	05	06 07		08 09	9	10	11	12		13

01	02	03	04	05	06	07	08	09	10	11	12	13
				Heati	ng	3 3	- `\	Cooling				
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verifica
Heat Pump System 1	VCHP-ductless	1	HSPF	8.2	24000	14880	EERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump Sy 1-hers-htpu

HVAC HEAT PUMPS -	HERS VERIFICATION							
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

Registration Number: 424-P010237105A-000-000-0000000-0000 Registration Date/Time: 10/04/2024 10:18 Report Version: 2022.0.000 Report Generated: 2024-10-04 10:18:25 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

RES	SIDENTIAL N	MEASURES S	SUMM/	ARY					RMS-1
Project Morer	Name no Valley 1 Bed	1A ADU Base	Build		☑ Single Family Multi Family		ition Alone ting+ Additio	n/Alteration	Date 10/4/2024
,	Address			O.	y Climate Zone		d. Floor Area	Addition	# of Units
	reno Valley		C		e Zone 10	1	730	n/a	1
	ILATION		_	-	Area				0
	struction Typ	oe	Cav	ity (pecial I	eatures		Status
Wall	Wood Framed		R 19		819				New
Roof	Wood Framed Ra		R 30		730				New
Slab	Unheated Slab-or	ir-Graue	- no ins	urauori	730 Perim	- 110			New
FENE	ESTRATION	Total Area:	163	Glazing Pe	arcentage:	22.3% Nev	v/Altered Avera	ane Il-Factor	0.30
	ntation Area	^	SHGC	Overha		1101	terior Sh		Status
Front (N		43.3 0.300	0.23	none	none	N/2			New
Right (W		52.5 0.300	0.23	none	none	N/A			New
Rear (S)		5.0 0.300	0.23	none	none	N/A	4		New
Left (E)		62.3 0.300	0.23	none	none	N/A	4		New
HVA0	C SYSTEMS Heating	Min. Ef	f Co	oling	Mir	ı. Eff	The	rmostat	Status
				oling t Heat Pump		ı. Eff SEER	The Setback		Status New
Qty.	Heating	8.20 HSP					Setback		
Qty.	Heating Electric Heat Pump C DISTRIBUTI	8.20 HSP	= Spli		14.0	SEER	Setback		
Qty.	Heating Electric Heat Pump C DISTRIBUTI	8.20 HSP	= Spli	t Heat Pump		SEER	Setback C F	Ouct	New
Qty. 1 HVAC Loca Mini Spl	Heating Electric Heat Pump C DISTRIBUTI	ON Heating Ductless / with Fan	E Spli	t Heat Pump	Duct Loca	ation bution	Setback C F	ouct R-Value	New Status

2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling 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 ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal ooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with ence Residential Appendix RA3.3.

entilation and Ir	door Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii, enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/griles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G
ool and Spa Sys	tems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*

elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.

Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor § 150.0(k)1E: control, low voltage wiring, or fan speed control.

Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).

Project Name Moreno Valley 1 Bed 1A ADU Base Building Type California Energy Climate Zone Total Cond. Floor Area 10/4/202 Roger Addition Alteration Dide 10/4/202 Roger Addition Roger Roger Addition Roger Ro	RESI	IDENTI	IAL WE	SOKES		AK I						RMS-1
California Energy Climate Zone	Project N	Name									-/Altti	
Moreno Valley			1 Bed 1A	ADU Base	Calif	fornia Ena			-			2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
Construction Type			ey .									
Wall Wood Framed R 19 819 New	INSUL	LATION					Area					
Roof Wood Framed Rafter	Const	truction	туре		Cav	ity	(ft^2)	Spe	cial Fea	tures		Status
FENESTRATION	Wall	Wood Fr	ramed		R 19		819					New
Total Area	Roof	Wood Fr	ramed Rafter		R 30		730					New
Orientation	Slab	Unheate	ed Slab-on-Gra	de	- no ins	sulation	730	Perim = 1	16'			New
Orientation Area(ft²) U-Fac SHGC Overhang Sidefins Exterior Shades Status						1						
Front (N)			_					3				2122
Right (W)							nang			ior Sn	ades	
Rear (S) 5.0 0.300 0.23 none ncne N/A New			990000-34	3-03-00-00-00	7-17-99/00/2019			10000000	62,020			20000000
HVAC SYSTEMS Qty. Heating Min. Eff Cooling Min. Eff Thermostat Status 1 Electric Heat Pump 8.20 HSPF Split Heat Pump 14.0 SEER Setback New HVAC DISTRIBUTION Location Heating Cooling Duct Location R-Value Status Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status		,	0.0000000000000000000000000000000000000	1,000,000,000	110,000,0	222000000		3100000000	10.0000000			(2,7)(2,0)
HVAC SYSTEMS Qty. Heating Min. Eff Cooling Min. Eff Thermostat Status 1 Electric Heat Pump 8.20 HSPF Split Heat Pump 14.0 SEER Setback New HVAC DISTRIBUTION Location Heating Cooling Duct Location R-Value Status Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status												
Qty. Heating Min. Eff Cooling Min. Eff Thermostat Status 1 Electric Heat Pump 8.20 HSPF Split Heat Pump 14.0 SEER Setback New HVAC DISTRIBUTION Duct Location Heating Cooling Duct Location R-Value Status Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status			700100	A27027515450					(0.000000			41300470
HVAC DISTRIBUTION Location Heating Cooling Duct Location R-Value Status Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status			700100	A27027515450					(0.000000			41334170
Location Heating Cooling Duct Location R-Value Status Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status	HVAC Qty.	Heatin	62.3 EMS	0.300 Min. E	0.23	oling		none Min. E	N/A			New Status
Mini Split Ductless / with Fan Ductless n/a n/a New WATER HEATING Qty. Type Gallons Min. Eff Distribution Status	HVAC Qty.	Heatin	62.3 EMS	0.300 Min. E	0.23	oling	тр	none Min. E	N/A			New Status
Qty. Type Gallons Min. Eff Distribution Status	HVAC	Heating Electric He	EMS G geat Pump	0.300 Min. E 8.20 HSF	0.23	oling		Min. E 14.0 SE	N/A Eff ER	Setback	uct	New Status New
Qty. Type Gallons Min. Eff Distribution Status	HVAC Qty.	Heating Electric He	EMS g eat Pump	Min. E	0.23	oling it Heat Put	Duc	Min. E 14.0 SE	N/A Eff ER	Setback	ouct R-Value	Status New Status
	HVAC Qty. 1 HVAC Locat	Heating Electric He C DISTR tion	EMS g gaat Pump RIBUTION H	Min. E	0.23	oling it Heat Put	Duc	Min. E 14.0 SE	N/A Eff ER	Setback	ouct R-Value	Status New Status
1 Heat Pump 40 3.10 Standard New	HVAC Qty. 1 HVAC Locat Mini Split	Heating Electric He C DISTR tion	EMS g gaat Pump RIBUTION H	Min. E 8.20 HSF eating	0.23 Selff Co PF Spli Co Duct	oling oling oling theat Put	Duc n/a	Min. E 14.0 SE	Eff er	Setback	ouct R-Value	Status New Status New

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)15iii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenciosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/griles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating,
§ 150.0(o)2:	and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods
	must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow
	rates and sound requirements per §150.0(o)1G
ool and Spa Sys	tems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, of dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)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 switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
ighting:	
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable
§ 110.9:	requirements of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and liner closets with an efficacy of at least 45 lumens per watt.
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA3.*
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Cathedral Ceilings

Quality Insulation Installation (QII) | High R-value Spray Foam Insulation |

Distribution Type

Tank Vol. (gal)

Water Heater Name

NEEA Heat Pum

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.

calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Brand

System Type

Domestic Hot

Water (DHW)

Registration Number: 424-P010237105A-000-000-0000000-0000

Project Name: Moreno Valley 1 Bed 1A ADU Base

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Calculation Description: Title 24 Analysis

entation Author Nam

√vonne St. Pierre

Design Path Studio

Encinitas, CA 92023

oonsible Designer Name:

Yvonne St. Pierre

Design Path Studio

P.O. Box 230165

Encinitas, CA 92023

Registration Number: 424-P010237105A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

§ 150.0(m)7:

§ 150.0(m)9:

5/6/22

P.O. Box 230165

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

certify that this Certificate of Compliance documentation is accurate and complete.

onstruction Typ

Project Name: Moreno Valley 1 Bed 1A ADU Base

Calculation Description: Title 24 Analysis

BUILDING ENVELOPE - HERS VERIFICATION

OPAQUE SURFACE CONSTRUCTIONS

Construction Name

R-30 Roof No Attic

WATER HEATING SYSTEMS

DHW Heater 1

WATER HEATERS - NEEA HEAT PUMP

Calculation Date/Time: 2024-10-04T10:17:23-07:00

Total Cavity

R-30

2x12 @ 24 in. O. C

Building Envelope Air Leakage

N/A

05

Number of Unit

NEEA Heat Pump

Model

RH37530 (40 gal,

JA13)

Registration Date/Time: 10/04/2024 10:18

Report Version: 2022.0.000

Schema Version: rev 20220901

10/04/2024

(760) 484-0253

I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

10/04/2024

(760) 484-0253

Registration Date/Time: 10/04/2024 10:18

Report Version: 2022.0.000 Schema Version: rev 20220901

Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type 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

. Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook. Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.

Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any

dryer.

Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the

Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water

Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (

adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must

Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain

include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and

more than 2' higher than the base of the water heater

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and

contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.

CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAI

Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8)

do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be

sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 7 The combination of mastic and either mesh or tape must be used to seal openings greater than 1/2", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct boar flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in

these spaces must not be compressed. *
Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction

Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tag mastics, sealants, and other requirements specified for duct construction.

Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic

dampers.

Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible

manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.

Protection of Insulation, Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind

Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plasticover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.

occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to a

Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 1:

or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the

§ 150.0(m)2: connections, and closures; joints and seams of cluct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§ 150.0(m)10: Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core an

Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMC

Ducts and Fans:

Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If

piping must be insulated as specified in § 609.11 of the California Plumbing Code. *

R&T), or by a listing agency that is approved by the executive director.

2022 Single-Family Residential Mandatory Requirements Summary

The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets,

Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

Interior / Exterior

Continuous

None / None

CFM50

06

Tank Location

Calculation Date/Time: 2024-10-04T10:17:23-07:00

Yvonne St. Pierre

Yvonne St. Pierre

EA/ HERS Certification Identification (If applicable):

Input File Name: Moreno Valley 1Bed1A_ADUBase.ribd22x

0.033

R-value

Assembly Layers

Roofing: 10 PSF (RoofTileAirGap)

Tile Gap: present

Roof Deck: Wood

Siding/sheathing/decking Cavity / Frame: R-30 / 2x12

Inside Finish: Gypsum Board

CFM50

Name (#)

DHW Heater 1 (1)

08

1 Bed 1A ADU

CF1R-PRF-01-E

(Page 12 of 12)

HERS Verification

1 Bed 1A ADU

Duct Inlet Air Source | Duct Outlet Air Sour

Report Generated: 2024-10-04 10:18:25

Report Generated: 2024-10-04 10:18:25

CF1R-PRF-01-E

(Page 10 of 12)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

Registration Number: 424-P010237105A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

This document has been generated by California Home Energy Efficiency Rating Services not quarantee, the accuracy or completeness of the information contained in this docume.

Low-Static

VCHP System

Habitable

Rooms

(W/CFM)

0.35

in Conditioned

Space

Exhaust

Project Name: Moreno Valley 1 Bed 1A ADU Base

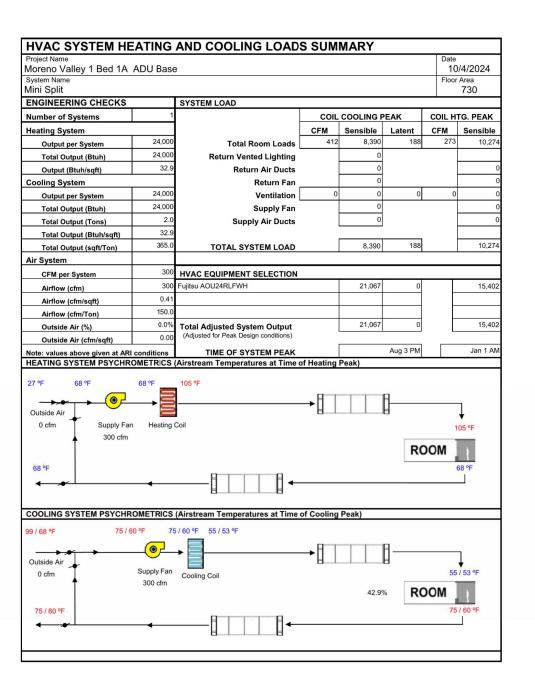
Calculation Description: Title 24 Analysis

INDOOR AIR QUALITY (IAQ) FANS

SFam IAQVentRpt

Calculation Date/Time: 2024-10-04T10:17:23-07:00

*Exceptions may apply.



 \bigcirc

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

1. THE USE OF THIS INFORMATION IS
RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR THE CITY OF MORENO VALLEY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE CITY OF MORENO VALLEY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. 2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project

City of Moreno Valley Permitted ADU Plan Set

revisions

description

Example Energy Calculations

project no. 2024_Moreno ADU

drawn by