

Craftsman Base



Craftsman Base Roof



Craftsman Porch



Craftsman Porch Roof



Spanish Base



Spanish Base Roof



Spanish Porch



Spanish Porch Roof

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 4. THE RECIPIENT REPRESENTS BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.
 5. 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

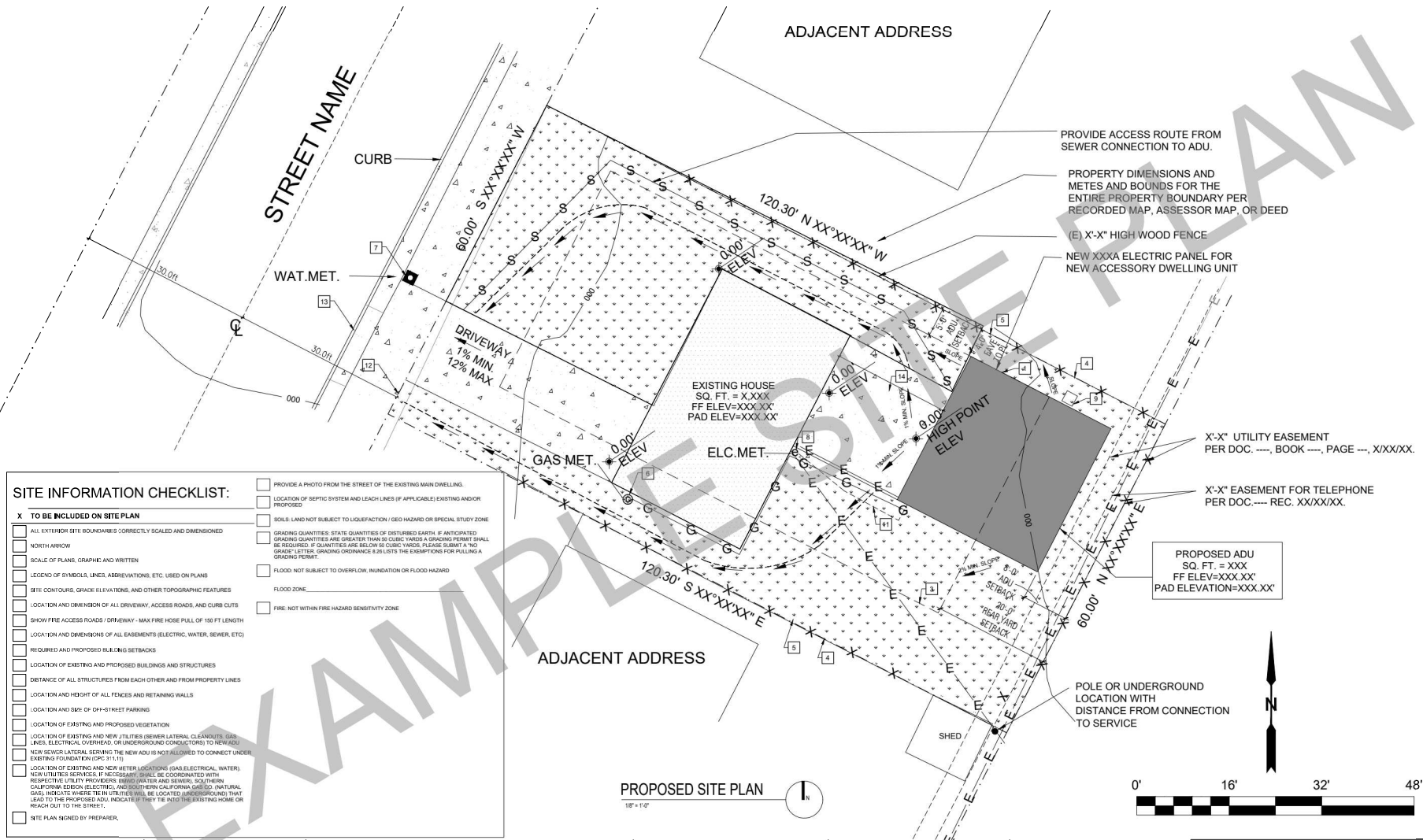
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description
 Exterior
 Style
 Options

date
 project no. 2024_Moreno ADU

drawn by

sheet no. **T1.2**



PROVIDE ACCESS ROUTE FROM SEWER CONNECTION TO ADU.

PROPERTY DIMENSIONS AND METES AND BOUNDS FOR THE ENTIRE PROPERTY BOUNDARY PER RECORDED MAP, ASSESSOR MAP, OR DEED

(E) X'-X" HIGH WOOD FENCE

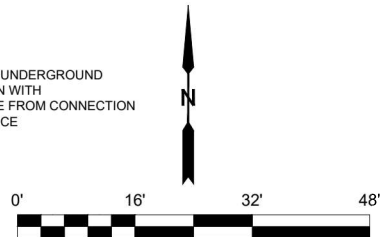
NEW XXXX ELECTRIC PANEL FOR NEW ACCESSORY DWELLING UNIT

PROPOSED ADU
 SQ. FT. = XXXX
 FF ELEV = XXX.XX'
 PAD ELEVATION = XXX.XX'

SITE INFORMATION CHECKLIST:

- X TO BE INCLUDED ON SITE PLAN**
- ALL EXTERIOR SITE BOUNDARIES CORRECTLY SCALED AND DIMENSIONED
 - NORTH ARROW
 - SCALE OF PLANS, GRAPHIC AND WRITTEN
 - LEGEND OF SYMBOLS, LINES, ABBREVIATIONS, ETC. USED ON PLANS
 - SITE CONTOURS, GRADE ELEVATIONS, AND OTHER TOPOGRAPHIC FEATURES
 - LOCATION AND DIMENSION OF ALL DRIVEWAY, ACCESS ROADS, AND CURB CUTS
 - SHOW FIRE ACCESS ROADS / DRIVEWAY - MAX FIRE HOSE PULL OF 150 FT LENGTH
 - LOCATION AND DIMENSIONS OF ALL EASEMENTS (ELECTRIC, WATER, SEWER, ETC)
 - DIMENSIONS AND PROPOSED BUILDING SETBACKS
 - LOCATION OF EXISTING AND PROPOSED BUILDINGS AND STRUCTURES
 - DISTANCE OF ALL STRUCTURES FROM EACH OTHER AND FROM PROPERTY LINES
 - LOCATION AND HEIGHT OF ALL FENCES AND RETAINING WALLS
 - LOCATION AND SIDE OF OFF-STREET PARKING
 - LOCATION OF EXISTING AND PROPOSED VEGETATION
 - LOCATION OF EXISTING AND NEW UTILITIES (SEWER LATERAL CLEANOUTS, GAS LINES, ELECTRICAL OVERHEAD, OR UNDERGROUND CONDUCTORS) TO NEW ADU
 - NEW SEWER LATERAL SERVING THE NEW ADU IS NOT ALLOWED TO CONNECT UNDER EXISTING FOUNDATION (CPC 311.11)
 - LOCATION OF EXISTING AND NEW WATER LOCATIONS (GAS, ELECTRICAL, WATER), NEW UTILITIES SERVICES, IF NECESSARY SHALL BE COORDINATED WITH RESPECTIVE UTILITY PROVIDERS. SHOW WATER AND SEWER, SOUTHERN CALIFORNIA Edison ELECTRIC, AND CITY OF ENCINITAS CALIFORNIA GAS. NATURAL GAS, INDICATE WHERE THE UTILITIES WILL BE LOCATED AND INDICATE THAT LEAD TO THE PROPOSED ADU. INDICATE IF THEY ARE TO BE LOCATED UNDER EXISTING HOME OR REACH OUT TO THE STREET.
 - FLOOD: NOT SUBJECT TO OVERFLOW, INUNDATION OR FLOOD HAZARD
 - FLOOD ZONE
 - SOILS: LAND NOT SUBJECT TO LIQUEFACTION / GEO HAZARD OR SPECIAL STUDY ZONE
 - GRADING QUANTITIES: STATE QUANTITIES OF DISTURBED EARTH, IF ANTICIPATED. GRADING QUANTITIES ARE GREATER THAN 50 CUBIC YARDS A GRADING PERMIT SHALL BE REQUIRED. IF QUANTITIES ARE BELOW 50 CUBIC YARDS, PLEASE SUBMIT A "NO GRADES" LETTER. GRADING ORDINANCE 2.8.LISTS THE EXEMPTIONS FOR PULLING A GRADING PERMIT.
 - SOILS: LAND NOT SUBJECT TO LIQUEFACTION / GEO HAZARD OR SPECIAL STUDY ZONE
 - FIRE: NOT WITHIN FIRE HAZARD SENSITIVITY ZONE
- SITE PLAN SIGNED BY PREPARER.

PROPOSED SITE PLAN
 1/8" = 1'-0"



KEYNOTES
1. LINE OF EXTERIOR WALL, TYP.
2. LINE OF ROOF OVERHANG / DECK AWNING / STRUCTURE ABOVE
3. REQUIRED SETBACKS
4. PROPERTY LINE, TYP.
5. FENCE HEIGHT PER PLAN
6. EXISTING GAS METER
7. EXISTING WATER METER
8. EXISTING ELECTRIC METER
9. CONDENSING UNIT
10. SURFACE WATER IS TO DRAIN AWAY FROM BUILDING. GRADE SHALL FALL A MIN. OF WITHIN THE FIRST 10 FEET FEEDER TO EXTEND TO EXISTING PANEL.
11. SEE CITY STANDARD 201 FOR UNDER SIDEWALK CURB DRAIN
12. SEE CITY STANDARD 206 FOR DRIVEWAY APPROACHES
13. STRUCTURES 10 MIN DISTANCE BETWEEN EAVES/WALLS ARE SUBJECT TO R302 IN BOTH STRUCTURES. REFER TO ARCH DETAILS

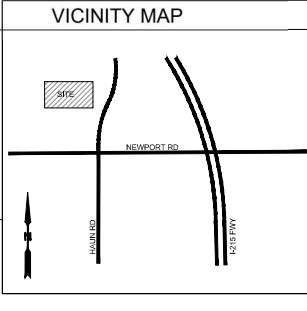
GENERAL NOTES
1. SPOT DIMENSIONS INDICATE ESTIMATED GRADE HEIGHTS. VERIFY IN FIELD PRIOR TO CONSTRUCTION.
2. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS AND NOTES NOT SHOWN.
3. SEE BUILDING PLANS AND SCHEDULES FOR ALL EXTERIOR DOOR AND WINDOW REFERENCES AND LOCATIONS.
4. YARD SETBACKS ARE TO BE MEASURED FROM THE EXTERIOR WALL FINISH TO THE PROPERTY LINE AND NOT FROM THE OUTSIDE OF THE FOOTING OR FACE OF STUDS.
5. BACKYARD AND SIDE SWALES TO BE GRADED AT 1% MIN.
6. PROVIDED DEEPENED FOOTING AS NEEDED.
7. PROVIDE A 6" MIN. LANDING AT 5% MAX. FOR DRIVEWAYS OVER 12%.
8. WHERE DRAINAGE PIPES ARE INSTALLED PIPES SIZE IS TO BE 2" DIA. MIN. PVC AND SHALL HAVE A 0.05% MIN. SLOPE.

LEGEND
SPOT GRADE ELEVATION
AREA OF NEW BUILDING FOOTPRINT
AREA OF EXISTING BUILDING FOOTPRINT
CONCRETE PAVING
LANDSCAPE
KEYNOTE
PROPERTY LINE
REQUIRED SETBACKS
DRAINAGE PATTERN
EXISTING CONTOURS
NEW SEWER LINE
NEW DOMESTIC WATER LINE
NEW ELECTRICAL & TEL DATA LINE
NEW GAS LINE
NEW OR EXISTING FENCE TO COMPLY WITH ZONING CODE SECTION 31-50.090

OWNER / APPLICANT:
NAME
ADDRESS (MAILING ADDRESS)
CITY, STATE, ZIP
PHONE: (---) ---
EMAIL
SITE PLAN PREPARED BY:
NAME
ADDRESS (MAILING ADDRESS)
CITY, STATE, ZIP
PHONE: (---) ---
EMAIL
SIGNATURE
DATE

UTILITIES PROVIDERS:
- GAS: SO CAL GAS
- ELECTRIC: SO CAL EDISON
- WATER: EASTERN MUNICIPAL WATER DISTRICT (EMWD)
SCHOOL DISTRICTS:

PROPERTY DATA:
CURRENT ZONING:
LOT AREA (SQ. FT.):
EXISTING HOUSE SQ. FT.:
PROPOSED ADU SQ. FT.:
OTHER STRUCTURES SQ. FT.:
TOTAL BUILDINGS FOOTPRINT SQ. FT.:
LOT COVERAGE: (BUILDING FOOTPRINT / LOT AREA)
ASSESSOR PARCEL #:
APN:



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project
 City of Moreno Valley Permitted ADU Plan Set

revisions
 1

description
 Example Site Plan

date

project no. 2024_Moreno ADU

drawn by

sheet no. **AS.2**

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project
 City of Moreno
 Valley Permitted
 ADU Plan Set

revisions
 A

description
 Example Energy
 Calculations

date
 project no. 2024_Moreno ADU
 drawn by
 sheet no.

T24.1

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

Date:
 10/4/2024

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with the Residential and Nonresidential 2022 Building Energy Efficiency Standards.
 This program developed by EnergyStar, LLC - www.energystar.com

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 **CF1R-PRF-01-E**
Calculation Description: Title 24 Analysis **Input File Name:** Moreno Valley 1Bed1A_ADUBase.rbd22x **(Page 1 of 12)**

GENERAL INFORMATION										
01	Project Name	Moreno Valley 1 Bed 1A ADU Base								
02	Run Title	Title 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 (ft²)	0	15	Number of Stories	1					
16	Existing Cond. Floor Area (ft²)	n/a	17	Fenestration Average U-factor	0.3					
18	Total Cond. Floor Area (ft²)	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	
01	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.
03	This building incorporates one or more Special Features shown below

Registration Number: 424-P010237105A-000-000-0000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS
 NOTE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information submitted by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.
 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-10-04 10:18:25 Schema Version: rev 20220901

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	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ³ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	36.2	39.6	29.4			
Proposed Design						
North Facing	34.7	37.5	28.3	1.5	2.1	1.1
East Facing	33.5	34.2	26.6	2.7	5.4	2.8
South Facing	33.9	37.1	28.1	2.3	2.5	1.3
West Facing	33.9	35.1	27.1	2.3	4.5	2.3

RESULT: PASS

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment
²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
 Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
 • Standard Design PV Capacity: 1.75 kWdc
 • Proposed PV Capacity Scaling: North (1.75 kWdc) East (1.75 kWdc) South (1.75 kWdc) West (1.75 kWdc)

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Calculation Description: Title 24 Analysis **Input File Name:** Moreno Valley 1Bed1A_ADUBase.rbd22x **(Page 3 of 12)**

Energy Use	Standard Design Source Energy (EDR1) (kbtu/ft²-yr)	Standard Design TDV Energy (EDR2) (kTOD/ft²-yr)	Proposed Design Source Energy (EDR1) (kbtu/ft²-yr)	Proposed Design TDV Energy (EDR2) (kTOD/ft²-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

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Calculation Description: Title 24 Analysis **Input File Name:** Moreno Valley 1Bed1A_ADUBase.rbd22x **(Page 4 of 12)**

Energy Use	Standard Design Source Energy (EDR1) (kbtu/ft²-yr)	Standard Design TDV Energy (EDR2) (kTOD/ft²-yr)	Proposed Design Source Energy (EDR1) (kbtu/ft²-yr)	Proposed Design TDV Energy (EDR2) (kTOD/ft²-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 Compliance Total	5.83	69.23	4.84	61.39	0.99	7.84

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Energy Use Intensity	Standard Design (kbtu/ft²-yr)	Proposed Design (kbtu/ft²-yr)	Compliance Margin (kbtu/ft²-yr)	Margin Percentage
North Facing				
Gross EU1	23.68	22.36	1.32	5.57
Net EU2	9.7	8.58	1.12	13.61
East Facing				
Gross EU1	23.68	21.81	1.87	7.9
Net EU2	9.7	7.84	1.86	19.18
South Facing				
Gross EU1	23.68	22.18	1.5	6.33
Net EU2	9.7	8.2	1.5	15.46
West Facing				
Gross EU1	23.68	21.8	1.88	7.94
Net EU2	9.7	7.82	1.88	19.38

Notes
 1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
 2. Net EU2 is Energy Use Total (including PV) / Total Building Area.

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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
 The 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)

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
Moreno Valley 1 Bed 1A ADU Base	730	1	1	1	0	1

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01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
1 Bed 1A ADU	Conditioned	Mini Split1	730	9.5	DHW Sys 1	New

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	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

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft²)	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

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	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
FDoor 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-000-000-0000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS
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 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-10-04 10:18:25 Schema Version: rev 20220901

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 **CF1R-PRF-01-E**
Calculation Description: Title 24 Analysis **Input File Name:** Moreno Valley 1Bed1A_ADUBase.rbd22x **(Page 8 of 12)**

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window E	Window	Right Wall	Right	270			1	7.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window D	Window	Right Wall	Right	270			1	12	0.3	NFRC	0.23	NFRC	Bug Screen
Window F	Window	Right Wall	Right	270			1	24	0.3	NFRC	0.23	NFRC	Bug Screen
Window (2) C	Window	Back Wall	Back	180			1	5	0.3	NFRC	0.23	NFRC	Bug Screen
SGDoor S	Window	Left Wall	Left	90			1	33.3	0.3	NFRC	0.23	NFRC	Bug Screen
Window B.	Window	Left Wall	Left	90			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Fr Door 2	Window	Left Wall	Left	90			1	20	0.3	NFRC	0.23	NFRC	Bug Screen

01	02	03	04	05	06	07	08
Name	Zone	Area (ft²)	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

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-000-000-0000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS
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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 CFJR-PRF-01-E (Page 9 of 12)

Table with 8 columns: Construction Name, Surface Type, Construction Type, Framing, Total Cavity R-value, Interior / Exterior Continuous R-value, U-factor, Assembly Layers. Row 1: R-30 Roof No Attic, Cathedral Ceilings, Wood Framed Ceiling, 2x12 @ 24 in. O.C., R-30, None / None, 0.033, Roofing: 10 PSF (Roof/Attic/Gap) Tile gap, presat.

Table with 5 columns: Quality Insulation Installation (QII), High R-value Spray Foam Insulation, Building Envelope Air Leakage, CFM50, CFM50. Row 1: Required, Not Required, N/A, n/a, n/a.

Table with 9 columns: Name, System Type, Distribution Type, Water Heater Name, Number of Units, Solar Heating System, Compact Distribution, HERS Verification, Water Heater Name (#). Row 1: DHW Sys 1, Domestic Hot Water (DHW), Standard, DHW Heater 1, 1, n/a, None, n/a, DHW Heater 1 (1).

Table with 8 columns: Name, # of Units, Tank Vol. (gal), NEA Heat Pump Brand, NEA Heat Pump Model, Tank Location, Duct Inlet Air Source, Duct Outlet Air Source. Row 1: DHW Heater 1, 1, 40, Rheem, PFP1410 T2 RH37530 (40 gal, J43), TankZone, 1 Bed 1A ADU, 1 Bed 1A ADU.

Registration Number: 424-PO10237105A-000-000-000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS... CA Building Energy Efficiency Standards - 2022 Residential Compliance

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 CFJR-PRF-01-E (Page 10 of 12)

Table with 7 columns: Name, Pipe Insulation, Parallel Piping, Compact Distribution, Compact Distribution Type, Recirculation Control, Shower Drain Water Heat Recovery. Row 1: DHW Sys 1 - 1/1, Not Required, Not Required, Not Required, None, Not Required, Not Required.

Table with 9 columns: Name, System Type, Heating Unit Name, Heating Equipment Count, Cooling Unit Name, Cooling Equipment Count, Fan Name, Distribution Name, Required Thermostat Type. Row 1: Mini Split1, Heat pump heating cooling, Heat Pump System 1, 1, Heat Pump System 1, 1, n/a, n/a, Setback.

Table with 13 columns: Name, System Type, Number of Units, Heating Efficiency, Heating Capacity, Cooling Efficiency, Zonally Controlled, Compressor Type, HERS Verification. Row 1: Heat Pump System 1, VCHP-ductless, 1, HSPF, 8.2, 24000, 14880, EERSEER, 14, 11.7, Not Zonal, Single Speed, Heat Pump System 1-herpump.

Table with 9 columns: 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. Row 1: Heat Pump System 1-herpump, Not Required, 0, Not Required, Not Required, Yes, No, Yes, Yes.

Registration Number: 424-PO10237105A-000-000-000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS... CA Building Energy Efficiency Standards - 2022 Residential Compliance

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 CFJR-PRF-01-E (Page 11 of 12)

Table with 10 columns: Name, Certified Low-Static VCHP System, Airflow to Habitable Rooms, Ductless Units in Conditioned Space, Wall Mount Thermostat, Air Filter Sizing, Low Leakage, Minimum Airflow per R43.3 and SC3.3.3.4.1, Minimum Airflow per R43.3 and SC3.3.3.4.1, Certified non-continuous Fan, Indoor Fan not Running Continuously. Row 1: Heat Pump System 1, Not Required, Required, Required, Required, Not Required, Not Required, Not Required, Not Required, Not required.

Table with 9 columns: Dwelling Unit, Airflow (CFM), Fan Efficiency (W/CFM), IAQ Fan Type, Includes Heat/Recovery?, IAQ Recovery Effectiveness - SRS/ASRS, Includes Fault Indicator Display?, HERS Verification, Status. Row 1: Sfam IAQVentRpt, 36, 0.35, Exhaust, No, n/a / n/a, No, Yes, n/a.

Registration Number: 424-PO10237105A-000-000-000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS... CA Building Energy Efficiency Standards - 2022 Residential Compliance

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 CFJR-PRF-01-E (Page 12 of 12)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Yvonne St. Pierre, Design Date: 10/04/2024, CEI/HERS Certification Identification (If applicable): (760) 484-0253.

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California: 1. 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. 2. 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 of the California Code of Regulations. 3. 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, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Registration Number: 424-PO10237105A-000-000-000000-0000 Registration Date/Time: 10/04/2024 10:18 HERS Provider: CHEERS... CA Building Energy Efficiency Standards - 2022 Residential Compliance

RESIDENTIAL MEASURES SUMMARY

Table with 5 columns: Construction Type, Cavity (ft³), Area, Special Features, Status. Rows include Wall, Roof, and Sub Insulation details.

FENESTRATION

Table with 5 columns: Fenestration Area (m²), U-Fac, SHGC, Overhang, Sidelight, Exterior Shades, Status. Rows include Front, Right, and Left window details.

HVAC SYSTEMS

Table with 5 columns: Qty, Heating, Cooling, Min. Eff, Thermostat, Status. Row 1: Electric Heat Pump, 0.30, HSPF, Split Heat Pump, 14.0, SEER, Setback, None.

HVAC DISTRIBUTION

Table with 5 columns: Location, Heating, Cooling, Duct Location, Duct R-Value, Status. Row 1: Min. Split, Ductless / Fan, Ductless, n/a, n/a, None.

WATER HEATING

Table with 5 columns: Qty, Type, Gallons, Min. Eff, Distribution, Status. Row 1: Heat Pump, 40, 3.10, Standard, None.

2022 Single-Family Residential Mandatory Requirements Summary

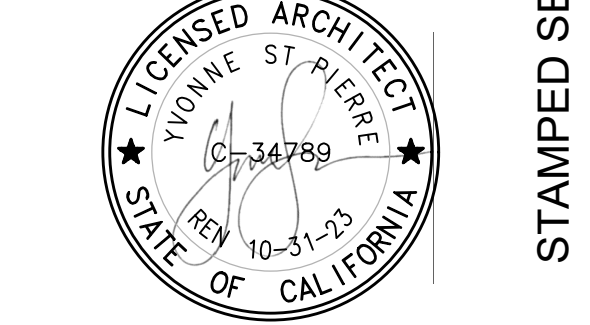
Table with 2 columns: Building Envelope, Provisions, Descriptive Title, and Application and Use. Rows include Air Leakage, Labeling, Insulation, Radon Barrier, etc.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Provisions, Descriptive Title, and Application and Use. Rows include Electric Heat Pump, HVAC Distribution, Water Heating, etc.

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date project no. 2024_Moreno ADU drawn by sheet no.

T24.2

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Provisions, Descriptive Title, and Application and Use. Rows include Pilot Lights, Building Cooling and Heating Loads, Clearances, etc.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Provisions, Descriptive Title, and Application and Use. Rows include Space Conditioning System Airflow Rate and Fan Efficiency, Ventilation and Indoor Air Quality, etc.

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.06)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backup capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated roadway from the main service to a subpanel that supplies the branch circuits in § 150.06), at least four branch circuits must be identified and have their source calculated as a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps, sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with necessary installed between the panelboard and the switch location to allow the connection of feeding power device.
§ 150.07)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.08)	Electric Cooktop Ready. Systems using gas or propane cooktops to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.09)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated undercabinet 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY					
Project Name: Moreno Valley 1 Bed 1A ADU Base				Date: 10/4/2024	Project Area: 730
ENGINEERING CHECKS		SYSTEM LOAD			
Number of Systems	1	COOLING PEAK		COOL INTO PEAK	
Heating System	1	CFM	Sensible	Latent	CFM
Output per System	24,000	Total Room Loads			
Total Output (Btu/h)	24,000	412	8,390	188	272
Output (lb/hr)	32.8	Return Vented Lighting			
Cooling System		Return Air Ducts			
Output per System	24,000	Return Fan			
Total Output (Btu/h)	24,000	Ventilation			
Total Output (CFM)	2.8	Supply Fan			
Total Output (lb/hr)	32.8	Supply Air Ducts			
Total Output (sq/ft/ton)	395.6	TOTAL SYSTEM LOAD			
Air System		TOTAL SYSTEM LOAD			
CFM per System	300	HVAC EQUIPMENT SELECTION		TOTAL SYSTEM LOAD	
Airflow (cfm)	300	Fujitsu ACUG48LFFH	21,067	0	15,402
Airflow (cfm/sqft)	0.41	Total Adjusted System Output			
Airflow (cfm/ton)	108.0	(Adjusted for Peak Design conditions)			
Outside Air (%)	0.0%	Total Adjusted System Output			
Outside Air (cfm/sqft)	0.00	Aug 3 PM			
Notes: values above shown at ARI conditions		TIME OF SYSTEM PEAK			
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)		20th 1 AM			

56/22

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date

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sheet no.

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