EXAMPLE OF PRE-APPROVED PLANS. PLANS AVAILABLE FOR 498, 749, OR 1,190 SF. LAYOUTS IN THREE ARCHITECTURAL STYLES THROUGH THE CITY OF MERCED PRE-APPROVED ADU PROGRAM. INSPECTION SERVICES DIVISION AT 385-4773 INSPECTIONSERVICESWEB@CITYOFMERCED.ORG FOR MORE INFORMATION. <sup>1</sup>Efficiency EDR includes improvements like a better building envelope and more efficient equipment Space Cooling <sup>2</sup>Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries 0.52 this building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS providing. IAQ Ventilation 0.46 0 0 IAQ Ventilation 0 1.86 Water Heating Proposed PV Capacity Scaling: North (1.71 kWdc) East (1.71 kWdc) South (1.71 kWdc) West (1.71 kWd 1.86 Water Heating Self Utilization/Flexibility Credit Utilization/Flexibility West Facing Efficiency Compliance Total 100.07 1.54 East Facing Efficiency Compliance Total 7.32 8.37 1.6 HERS Provider: 223-P0100127879-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance CA Building Energy Efficiency Standards - 2022 Residential Compliance CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliano Report Generated: 2023-02-07 09:47:02 CF1R-PRF-01-E CF1R-PRF-01-E CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E Project Name: Merced Plan 498 ADU (Page 5 of 12) Project Name: Merced Plan 498 ADU Calculation Date/Time: 2023-02-07T09:45:28-08:00 (Page 6 of 12) Project Name: Merced Plan 498 ADU Calculation Date/Time: 2023-02-07T09:45:28-08:00 (Page 7 of 12) Project Name: Merced Plan 498 ADU Calculation Date Time: 2023-02-07T09:45:28-08:00 Calculation Description: Title 24 Analysis Input File Name: Merced Plan 498 ADU.ribd22x Calculation Description: Title 24 Analysis Input File Name: Merced Plan 498 ADU.ribd22x Calculation Description: Title 24 Analysis Input File Name: Merced Plan 498 ADU.ribd22x Input File Name: Merced Plan 498 ADU.ribd22x **ENERGY USE INTENSITY** Right Fin 8.76 Net EUI<sup>2</sup> East Facing he following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis Net EUI<sup>2</sup> Edge Insul. R-value and Depth Edge Insul. R-value South Facing Construction Type Roof Rise (x in 12) Roof Reflectance Roof Emittance Radiant Barrier Perimeter (ft) Area (ft<sup>2</sup>) Carpeted Fraction detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry 16.94 13.67 19.3 West Facing Kitchen range hood 05 06 07

Total Cavity Continuous U-factor 35.26 16.65 R-value W01 4040 SH Window Front Wall Front 0 4 4 1 16 0.3 NFRC 0.23 NFRC Bug Screen Number of Dwelling Number of Bedrooms Number of Zones Number of Ventilation Number of Water Conditioned Floor Area (ft<sup>2</sup>) Gross EUI is Energy Use Total (not including PV) / Total Building Area.
 Net EUI is Energy Use Total (including PV) / Total Building Area. Cooling Systems Heating Systems | Window | Front Wall | Front | 0 | 3 | 6.7 | 1 | 20.1 | 0.36 | NFRC | 0.32 | NFRC | Bug Screen Cavity / Frame: R-21 / 2x6 Exterior Walls Wood Framed Wall 2x6 @ 16 in. O. C. Siding/sheathing/decking W04 4040 SH Window Back Wall Back 180 16 0.3 NFRC 0.23 NFRC Bug Screen Inside Finish: Gypsum Board Status R-21 2x6 @ 16 in. O. C. Exterior Walls Wood Framed Wall Zone Type HVAC System Name Zone Floor Area (ft<sup>2</sup>) Avg. Ceiling Height Water Heating System 1 Res HVAC1 DHW Sys 1 Registration Date/Time: 2023-02-07 10:01:18 Registration Date/Time: 2023-02-07 10:01:18 Registration Date/Time: 2023-02-07 10:01:18 Registration Date/Time: 2023-02-07 10:01:18 Registration Number: 223-P0100127878-000-000-0000000-0000 Registration Number: 223-P0100127878-000-000-0000000-0000 Registration Number: 223-P0100127878-000-000-0000000-0000 Registration Number: 223-P0100127878-000-000-0000000-0000 HERS Provider: HERS Provider: HERS Provider: HERS Provider: CalCERTS Inc. CalCERTS Inc. Report Version: 2022.0.000 Schema Version: rev 20220901 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-02-07 09:47:02 CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 2023-02-07T09:45:28-08:00 Calculation Date/Time: 2023-02-07T09:45:28-08:00 Calculation Date/Time: 2023-02-07T09:45:28-08:00 Project Name: Merced Plan 498 ADU Calculation Date/Time: 2023-02-07T09:45:28-08:00 (Page 12 of 12) Project Name: Merced Plan 498 ADU (Page 9 of 12) Project Name: Merced Plan 498 ADU (Page 10 of 12) Project Name: Merced Plan 498 ADU (Page 11 of 12) Input File Name: Merced Plan 498 ADU.ribd22x Input File Name: Merced Plan 498 ADU.ribd22x OCUMENTATION AUTHOR'S DECLARATION STATEMEN Total Cavity
R-value

Interior / Exterior
Continuous
R-value

U-factor Name Verified Airflow Target Verified EER/EER2 Verified Verified Refrigerant Charge HSPF/HSPF2 Cap 47 Cap 17 Construction Name Surface Type Framing NEEA Heat Pump Brand NEEA Heat Pump Model Alan McIntosh **Tank Location** Duct Inlet Air Source Duct Outlet Air Source Heat Pump System
1-hers-htpump
Not Required Roofing: Light Roof (Asphalt Shingle) O Not Required No No Yes RheemXE40T10H22U Alan McIntosh, HVAC Consulting Services 2023-02-07 09:59:33 Roof Deck: Wood DHW Heater 1 Attic Roofs 2x4 @ 24 in. O. C. None / 0 CEA/ HERS Certification Identification (If applicable Cavity / Frame: R-13.0 / 2x4 P.O. Box 6423 CC2005628 01 02 03 04 05 06 07 08 09 Visalia, CA 93290 559-734-8500 Over Ceiling Joists: R-28.9 insul. Compact Distribution Compact Distribution R-38 R38 Attic + R13 Roof 2x4 @ 24 in. O. C. None / None 0.025 Cavity / Frame: R-9.1 / 2x4 ESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California: 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. SFam IAQVentRpt 29 0.35 Exhaust No BUILDING ENVELOPE - HERS VERIFICATION 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 5 of the California Code of Regulations Responsible Designer Signature: Thom & Black System Type Heating Unit Name Heating Equipment Cooling Unit Name Cooling Equipment Count Thom A Black HERS PROVIDER Thom Black Architect 2023-02-07 10:01:18 Heat pump Heat Pump System Heat Pump System PO Box 3424 03 04 05 06 07 City/State/Zip: Visalia, CA 93278 System Type Distribution Type Water Heater Name Number of Units Solar Heating System 02 03 04 05 06 07 08 09 10 11 12 13 Number of Units | Heating | Cooling | Cooling | Cooling | Cooling | Compressor | Cop | Cop 47 | Cap 17 Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Project Number Registration Provider responsibility for the accuracy of the information. Registration Date/Time: 2023-02-07 10:01:18 2210.2 Registration Number: 223-P0100127878-000-000-0000000-0000 Registration Number: 223-P0100127879-000-000-0000000-0000 Registration Number: 223-P0100127878-000-000-0000000-0000 Registration Number: 223-P0100127876-000-000-0000000-0000 Registration Date/Time: HERS Provider: Registration Date/Time: HERS Provider: CalCERTS Inc. 2023-02-07 10:01:18 CalCERTS Inc. 2023-02-07 10:01:18 2023-02-07 10:01:18 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-02-07 09:47:02 EN.01

**ENERGY COMPLIANCE**