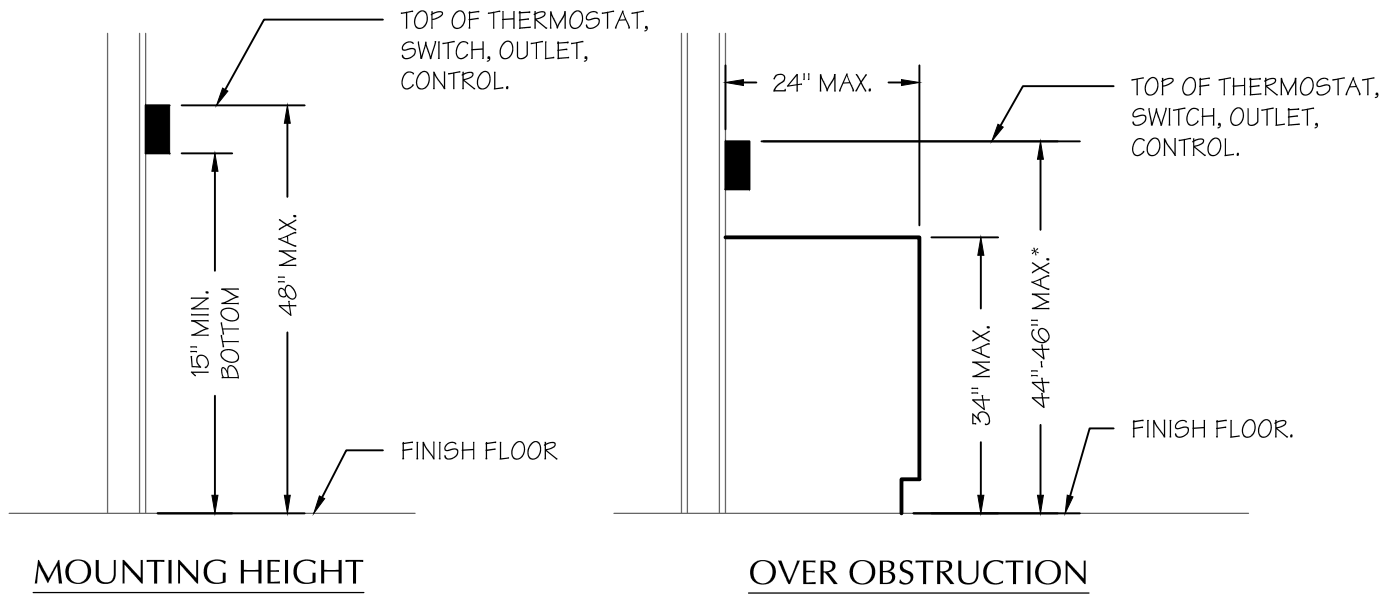


PACKAGE HEAT PUMP SCHEDULE	
DESIGNATION	HP-1
VOLTS/PHASE	208 / 1
AMPS	3.2
MCA/MOCP (AMPS)	3.7 / 15
SEER / EER @ ARI	12.0
BLOWER	
SUPPLY AIR (CFM)	330
EXT. S P (IN. WC)	0.00
MIN. O.S.A. (CFM)	65 (VENT MODE)
HP/BHP	0.07 / --
RPM	1050
DRIVE	DIRECT
COOLING	
TOTAL (MBH)	7.0
EADB/EAWB (°F)	80 / 67
AMBIENT AIR (°F)	95
HEATING	
CAPACITY (MBH)	6.1
COP	3.7
FILTER	
QUANTITY/SIZE (RETURN)	
TYPE	MERV 6
MANUFACTURER	
TYPE	PTAC
MODEL NUMBER	PTH073J R32
LOCATION	WALL MOUNTED
OPER. WT (LBS)	96
ACCESSORIES	1, 2, 3, 4

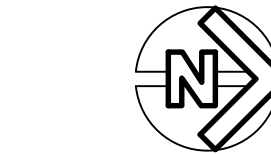
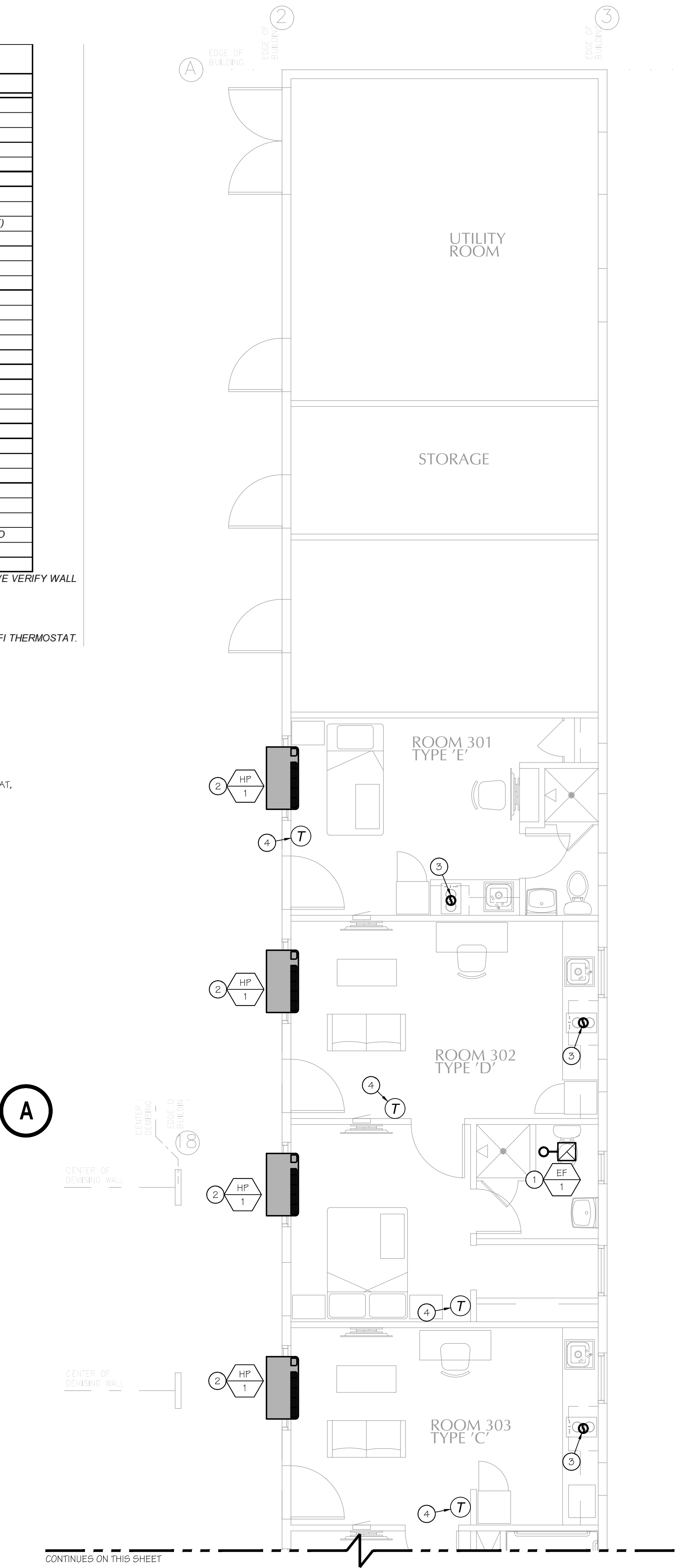
1. MOUNTING KIT, SOUND INSULATION WALL SLEEVE VERIFY WALL THICKNESS PRIOR TO ORDERING.
2. ALUMINUM EXTERIOR WALL GRILLE, QW WHITE
3. CONDENSATE DRAIN KIT
4. HARDWIRE THERMOSTAT KIT w/ PELICAN TCI WI-FI THERMOSTAT.



* 44" MAX. FOR WHEEL CHAIR FORWARD APPROACH AND 46" MAX. FOR SIDE APPROACH PER CBC FIGURE 11B-308.2.2(b) & 11B-308.3.2(b).

THERMOSTAT LOCATION DETAIL

SCALE: NTS



PARTIAL MECHANICAL FLOOR PLAN

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

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.H.F.	Air Handler		INT.	Internal
	B.A.S.	Building Automation System		LOC.	Location
	B.V.	Butterfly Valve		M.O.	Motor Operated
	C.D.	Condensate Drain		(N)	New
	C.E.	Ceiling Exhaust Register		N.C.	Normally Closed
	C.W.R.	Condensor Water Return		N.I.C.	Not in Contract
	C.W.S.	Condensor Water Supply		N.O.	Normally Open
	C.H.W.R.	Chilled/Hot Water Return		O.S.A.	Outside Air
	C.H.W.S.	Chilled/Hot Water Supply		O.B.D.	Opposed Blade Damper
	COMB.	Combustion		P.O.C.	Point of Connection
	CON.	Connection		P.P.	Petco Plug
	CONT.	Continuation		PROV.	Provide
	C.R.	Ceiling Return Register		P.R.V.	Pressure Reducing Valve
	C.S.	Ceiling Supply Register		SIM.	Similar
	C.V.	Check Valve		S.F.D.	Smoke / Fire Damper w/ access panel
	D.C.W.	Domestic Cold Water		S.F.D.	S.F.D.
	D.A.	Damper		S.M. or S/M	Sheet Metal
	D.L.	Door/Louver		S.O.V.	Shut Off Valve
	DN.	Down		S.P.S.T.	Single Pole Single Throw
	D.P.D.T.	Double Pole Double Throw		STAT	Thermostat or Room Sensor
	D.T.R.	Duct Thru Roof		SURF.	Surface
	(E)	Existing		(TYP)	Typical
	E.F.	Exhaust Fan		U.G.	Underground
	E.M.S.	Energy Management System		(U.N.O.)	Unless Noted Otherwise
	EX.	Exhaust		V.D.	Volume Damper
	F.D.	Fire Damper w/ acc. panel		V.D.	Vol. Damper w/ Remote Operator
	Flex. Conn.	Flexible Connection		W.	With
	F.L.R.	Floor		W.R.	Wall Return Register
	F.T.R.	Flue Thru Roof		W.S.	Wall Supply Register
	Furn.	Furnace		)))	Duct w/ Acoustic Lining
	GA.	Gauge		)))	Turning Vanes
	GAL.	Gallon		)))	Extractor
	GA.LV.	Galvanized		)))	CO2 SENSOR
	G.P.M.	Gallons per Minute		)))	Union
	GRD.	Grade		)))	Reducer or Insealer
	G.V.	Gate Valve			

EQUIPMENT SCHEDULE

EF-1

Greenheck SP-AP0511W-1 Ceiling Mounted Exhaust Fan, 100 CFM @ 0.12" E.S.P., 880 RPM, 1.50 sones on high speed. Fan shall operate on high speed whenever the occupant sensor or humidity sensor is activated. Fan shall continue operation at high speed for an additional twenty minutes after occupant or humidity sensor is satisfied. Fan shall be set to automatically reduce airflow to 45 CFM at all other periods. Minimum fan operation to be 45 CFM continuous. Provide with backdraft damper, and connect full size discharge to roof vent cap. Complete with 2-speed capability with time delay, motor rated for continuous use, grille mounted motion detector (field installed), integrated humidity sensor (field installed), Energy Star most Efficient rating, NEMA-1 toggle switch.

Electrical: 0.29A @ 115v-1ph.

Operating Weight: 10 Lbs.

EF-2

Greenheck SP-AP0511W-1 Ceiling Mounted Exhaust Fan, 75 CFM @ 0.12" E.S.P., 817 RPM, 1.20 sones on high speed. Fan shall operate on high speed whenever the occupant sensor or humidity sensor is activated. Fan shall continue operation at high speed for an additional twenty minutes after occupant or humidity sensor is satisfied. Fan shall be set to automatically reduce airflow to 45 CFM at all other periods. Minimum fan operation to be 45 CFM continuous. Provide with backdraft damper, and connect full size discharge to roof vent cap. Complete with 2-speed capability with time delay, motor rated for continuous use, grille mounted motion detector (field installed), integrated humidity sensor (field installed), Energy Star most Efficient rating, NEMA-1 toggle switch.

Electrical: 0.29A @ 115v-1ph.

Operating Weight: 10 Lbs.

MECHANICAL KEY NOTES:

1. CEILING EXHAUST FAN W/FULL SIZE DISCHARGE TO ROOF CAP, FAN IS TWO-SPEED AND IS TO RUN CONTINUOUSLY TO COMPLY WITH ASHRAE 62.2.
2. THRU THE WALL PTAC HEAT PUMP, INSTALL PER MANUFACTURERS INSTRUCTIONS.
3. 7"Ø EXHAUST DUCT FROM KITCHEN HOOD, FOR UNITS WITH MICROWAVE HOOD PROVIDE 3.25"x10" TRANSITION, FIELD COORDINATE EXACT TYPE OF HOOD.
4. SEE TYP. DETAIL A/M110



Skarphol/Frank
Associates

ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect

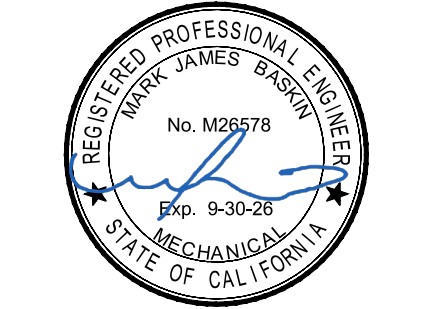
925 17th Street
Bakersfield, CA 93301
(861) 334-0741
skarpholfrank.com

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Job: 25025
Plt: 12-02-25



ADAPTIVE REUSE
AND APARTMENT
CONVERSION FOR
UNHOUSED
VETERANS IN
COLLABORATION
WITH:



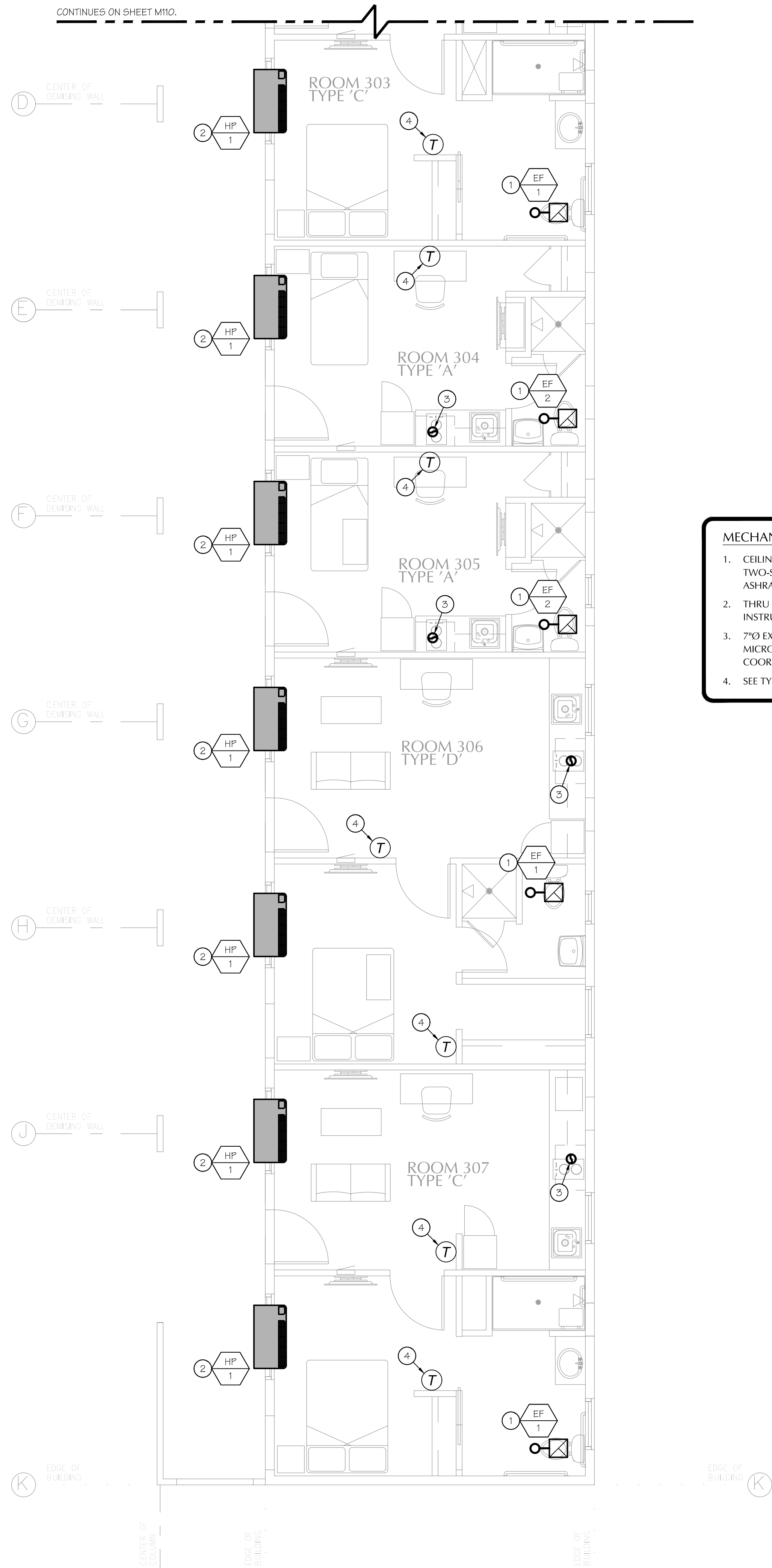
901 UNION AVE
BUILDING 300
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	M110
DP	
PM	

BUILDING 300



- MECHANICAL KEY NOTES:**
1. CEILING EXHAUST FAN W/FULL SIZE DISCHARGE TO ROOF CAP, FAN IS TWO-SPEED AND IS TO RUN CONTINUOUSLY TO COMPLY WITH ASHRAE 62.2.
 2. THRU THE WALL PTAC HEAT PUMP, INSTALL PER MANUFACTURERS INSTRUCTIONS.
 3. 7"Ø EXHAUST DUCT FROM KITCHEN HOOD, FOR UNITS WITH MICROWAVE HOOD PROVIDE 3.25"x10" TRANSITION, FIELD COORDINATE EXACT TYPE OF HOOD.
 4. SEE TYP. DETAIL A/M110



PARTIAL MECHANICAL FLOOR PLAN

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



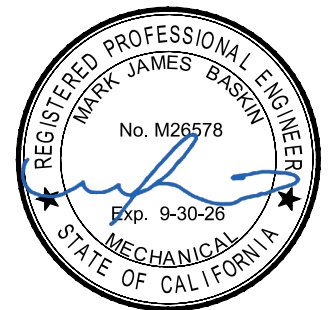
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ADAPTIVE REUSE
AND APARTMENT
CONVERSION FOR
UNHOUSED
VETERANS IN
COLLABORATION
WITH:



901 UNION AVE
BUILDING 300
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	M111
DP	
PM	

BUILDING 300

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 1 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

A. GENERAL INFORMATION

01 Project Location (city)	Bakersfield	04 Total Conditioned Floor Area	2092
02 Climate Zone	13	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

• Hotel/Motel

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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Report Page:(Page 2 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09							
System Summary \$110.1, \$110.2, \$140.4, \$170.2(c), \$141.0(b), \$180.2(b2)	AND	Pumps \$140.4(k), \$170.2(c)4i	AND	Fans/Economizers \$140.4(c), \$140.4(e), \$140.4(p), \$170.2(c)	AND	System Controls \$110.2, \$120.2, \$140.4(f), \$140.4(r), \$170.2(c)	AND	Ventilation \$120.1, \$160.2	AND	Terminal Box Controls \$140.4(d), \$170.2(c)4B	AND	Distribution \$120.3, \$140.4(l), \$160.2, \$160.3, \$141.0(b)2D, \$180.2(b)2B1	AND	Cooling Towers \$110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		COMPLIES

Mandatory Measures Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP1-301	1	Single zone	Alteration	All Other Occupancies	☐
HP1-302A, B	2	Single zone	Alteration	All Other Occupancies	☐
HP1-303A, B	2	Single zone	Alteration	All Other Occupancies	☐

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Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 4 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
HP1-305	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.25	5.6	6.17	4.48
HP1-306	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.25	5.6	6.17	4.48
HP1-307A, B	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	8.74	7	0	11.88	5.6	9.09	7.79
HP1-308	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.28	5.6	7.62	5.79

Footnotes:

1 FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are exempt.

2 It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

3 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

4 Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry system Equipment Efficiency (Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) only)

01	02	03	04	05	06	07
Name or Item Tag	Rated Output Capacity (kBtu/h)	Minimum COP Required per Table 110.2-E	Design COP	Rated Output Capacity (kBtu/h)		Design EER
HP1-301	7	Federal/Minimum	3.7	7		12
HP1-302A, B	7	Federal/Minimum	3.7	7		12

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Report Page:(Page 5 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry system Equipment Efficiency (Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) only)

01	02	03	04	05	06	07
Name or Item Tag	Heating Mode	Design COP	Rated Output Capacity (kBtu/h)	Design EER		
HP1-303A, B	7	Federal/Minimum	3.7	7		12
HP1-304	7	Federal/Minimum	3.7	7		12
HP1-305	7	Federal/Minimum	3.7	7		12
HP1-306	7	Federal/Minimum	3.7	7		12
HP1-307A, B	7	Federal/Minimum	3.7	7		12
HP1-308	7	Federal/Minimum	3.7	7		12

Mechanical Heat Recovery §140.4(s)

01	02	03	04	05	06	07
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems ² (kBtu/h)	Design Capacity of All Service Water Heating Systems ¹ (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery	

Footnotes:

1 FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.

2 FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

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Report Page:(Page 7 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP1-302A, B	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	660	Site Elevation	475	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF	Supply	2	Base Allowance: 1 TE6 Floors MERV 13-16 Filter upstream of thermal conditioning equipment Hydronic/DX cooling coil or heat pump coil Altered-Supply Fan System	100 100 100 100		0.23 0.14 0.14 0.14		Manufacturer provided		0.09					
Supply Fan Base Allowance (watt/cfm)	0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance (watt/cfm)	0	Fan System Allowance (kW) ³	0.43	Fan System Electrical Input Power (kW)	0.17								

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Report Page:(Page 8 of 25)

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H. FAN SYSTEMS & AIR ECONOMIZERS

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01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF	Supply	2	Base Allowance: 1 TE6 Floors MERV 13-16 Filter upstream of thermal conditioning equipment Hydronic/DX cooling coil or heat pump coil Altered-Supply Fan System	100 100 100 100		0.23 0.14 0.14 0.14		Manufacturer provided		0.09					
Supply Fan Base Allowance (watt/cfm)	0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance (watt/cfm)	0	Fan System Allowance (kW) ³	0.43	Fan System Electrical Input Power (kW)	0.17								

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Report Page:(Page 3 of 25)

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

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System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP1-304	1	Single zone	Alteration	All Other Occupancies	☐
HP1-305	1	Single zone	Alteration	All Other Occupancies	☐
HP1-306	1	Single zone	Alteration	All Other Occupancies	☐
HP1-307A, B	2	Single zone	Alteration	All Other Occupancies	☐
HP1-308	1	Single zone	Alteration	All Other Occupancies	☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3a1	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ §140.4(a) and §170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP1-301	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.25	5.6	6.17	4.48
HP1-302A, B	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	8.74	7	0	11.85	5.6	8.99	7.68
HP1-303A, B	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	8.74	7	0	11.88	5.6	9.09	7.79
HP1-304	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Altered per §141.0(b)2E and §180.2(b)2	4.37	7	0	6.25	5.6	6.17	4.48

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Schema Version: rev 20250101

Compliance ID: EPR-8598-0926-0037
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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

Report Page:(Page 6 of 25)

Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP1-301	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF	Supply	1	Base Allowance: 1 TE6 Floors MERV 13-16 Filter upstream of thermal conditioning equipment Hydronic/DX cooling coil or heat pump coil Altered-Supply Fan System	100 100 100 100		0.23 0.14 0.14 0.14		Manufacturer provided		0.09					
Supply Fan Base Allowance (watt/cfm)	0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance (watt/cfm)	0	Fan System Allowance (kW) ³	0.21	Fan System Electrical Input Power (kW)	0.09								

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STATE OF CALIFORNIA

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This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:Adaptive Reuse and Apartment Conversion For Unhoused Veterans

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Project Address:Building 300 901 Union Ave

Date Prepared:9/30/2026

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP1-304	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF	Supply	1	Base Allowance: 1 TE6 Floors MERV 13-16 Filter upstream of thermal conditioning equipment Hydronic/DX cooling coil or heat pump coil Altered-Supply Fan System	100 100 100 100		0.23 0.14 0.14 0.14		Manufacturer provided		0.09					
Supply Fan Base Allowance (watt/cfm)	0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance (watt/cfm)	0	Fan System Allowance (kW) ³	0.21	Fan System Electrical Input Power (kW)	0.09								

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SF

Skarphol / Frank Associates

ARCHITECTURE • PLANNING • INTERIORS

Paul Skarphol, Architect • Gregory Frank, Architect

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Bakersfield, CA 93301
(861) 334-0741
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BASKIN MECHANICAL ENGINEERS

175 Fulton Street
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Job: 25025
Pit: 12-02-25

ADAPTIVE REUSE
AND APARTMENT
CONVERSION FOR
UNHOUSED
VETERANS IN
COLLABORATION
WITH:

901 UNION AVE
BUILDING 300
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	M210
DP	
PM	

BUILDING 300

STATE OF CALIFORNIA										CALIFORNIA ENERGY COMMISSION									
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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-305	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 Kbtu/h cooling
01	02	03	04			05		06	07	08	09		10	11	
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design					
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)	
SF	Supply	1	BaseAllowanceLT6Floors			100		0.23	Manufacturer provided			0.09			
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14							
			Hydronic/DX cooling coil or heat pump coil			100		0.14							
			Altered-Supply Fan System			100		0.14							
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW) ¹		0.21	Fan System Electrical Input Power (kW)		0.09	

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H. FAN SYSTEMS & AIR ECONOMIZERS																
System Name	HP1-308	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kbtu/h cooling	
01	02	03	04			05		06	07	08	09		10		11	
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design					Fan Electrical Input Power (kW)	
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method			Motor Nameplate Horsepower			
								BaseAllowanceLT6Floors								Manufacturer provided
								MERV 13-16 Filter upstream of thermal conditioning equipment								
								Hydronic/DX cooling coil or heat pump coil								
Altered-Supply Fan System																
SF	Supply	1				100		0.23						0.09		
						100		0.14								
						100		0.14								
						100		0.14								
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/transfer Fan Base Allowance(watt/cfm)				0	Fan System Allowance (kW) ³		0.21	Fan System Electrical Input Power (kW)			0.09		

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35

² Low-turn-down single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

³ Fan system allowance includes fan system base allowance.

⁴ Filter pressure loss can only be counted once per fan system.

⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

⁶ Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..

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I. SYSTEM CONTROLS														
HP1-304	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: Alteration Project	NA: Multifamily					NA Heat Pump not serving dwelling units
HP1-305	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: Alteration Project	NA: Multifamily					NA Heat Pump not serving dwelling units
HP1-306	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: Alteration Project	NA: Multifamily					NA Heat Pump not serving dwelling units
HP1-307A, B	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: Alteration Project	NA: Multifamily					NA Heat Pump not serving dwelling units
HP1-308	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: Alteration Project	NA: Multifamily					NA Heat Pump not serving dwelling units

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP1-306	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	330	Site Elevation	475	Economizer	NA: <=33 kbtu/h cooling
01	02	03	04			05		06	07	08	09		10	11	
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design				Motor Nameplate Horsepower	Fan Electrical Input Power (kW)		
						Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method							
SF	Supply	1	BaseAllowanceT6Floors	100		0.23	Manufacturer provided				0.09				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100	0.14										
			Hydronic/DX cooling coil or heat pump coil	100	0.14										
			Altered-Supply Fan System	100	0.14										
Supply Fan Base Allowance (watt/cfm)		0.65	Exhaust/Return/Relief/transfer Fan Base Allowance(watt/cfm)			0	Fan System Allowance (kW) ¹		0.21	Fan System Electrical Input Power (kW)		0.09			

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J. VENTILATION AND INDOOR AIR QUALITY									
04		05			06			07	
System Name	HP1-304	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Studio Apt. 304	Bedroom/living room (hotel/motel/dorm)	191			28.6	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				29	18	Ventilation for this System Complies? Yes		
04		05			06			07	
System Name	HP1-305	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY									
¹ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.									
⁴ See Standards Tables 120.1-A and 120.1-B.									
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.									
⁶ Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.									

K. TERMINAL BOX CONTROLS									
This section does not apply to this project.									

L. DISTRIBUTION (DUCTWORK AND PIPING)									
This section does not apply to this project.									

M. COOLING TOWERS									
This section does not apply to this project.									

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1	
	Form/Title
NRCI-MCH-E - Must be submitted for all buildings	

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J. VENTILATION AND INDOOR AIR QUALITY									
Studio Apt. 305	Bedroom/living room (hotel/motel/dorm)	191			28.6	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				29	18	Ventilation for this System Complies? Yes		
04		05			06		07		
System Name	HP1-306	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Studio Apt. 306	Bedroom/living room (hotel/motel/dorm)	191			28.6	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				29	18	Ventilation for this System Complies? Yes		
04		05			06		07		
System Name	HP1-307A, B	System Design OA CFM Airflow ¹		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²	
							Provided		
08	09	10	11	12	13	14	15	16	

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/attcp/providers.html and the drafts can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073;
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073; Amana PTH073;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION									
There are no NRCV forms required for this project.									

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VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
1 BR Apt. 307	Bedroom/living room (hotel/motel/dorm)	382			57.3	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				57	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	HP1-308	System Design OA CFM Airflow ¹		45	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ² ²	
								Provided	
08	09		10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Studio Apt. 308	Bedroom/living room (hotel/motel/dorm)	191			28.6	0	45	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				29	18	Ventilation for this System Complies?		Yes