



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



PC # <u>02-104915</u>	BUILDING DESC	CRIPTION: 24X4	10 Relocatable Build
Note: See Title 24 Energy Compliance Report Booklet for More Details.	Manufacturer:_	Ame	rican Modular Syste
Report Booklet for more details.	Zones: (1-16) 14, 15 &		
Envelope Measures			
INSULATION	<u>GLAZI</u>	<u>NG</u>	
Roof: R-19 (Batt)	Panes:	<u>Dual</u> U-F	actor: 0.6
Wall: R-11 (Batt)	Frame	s: Metal SHC	GC: 0.3
Floor: R-11 (Batt)	Tinting	•	Solarban 6
Lighting Measures			
Code: Quantity: Description:		<u>.amp/Ballast:</u>	<u>lotal Watts</u>
	•		
A 8 (3) 4ft fluorescen	t 18 Elec Tandem F.	32T8 / Electronic	70
A 8 (3) 4ft fluorescen b 2 (3) 4ft fluorescen			
b 2 (3) 4ft fluorescen	t 18 Elec F	32T6 / Electronic	
	t 18 Elec F	32T6 / Electronic	
b 2 (3) 4ft fluorescen	t 18 Elec F	32T6 / Electronic	
b 2 (3) 4ft fluorescen Controls for Credit: Occ S	t 18 Elec Fi	32T6 / Electronic	
b 2 (3) 4ft fluorescen	t 18 Elec Fi	32T6 / Electronic	
b 2 (3) 4ft fluorescen Controls for Credit: Occ S	t 18 Elec Fi	32T6 / Electronic	22
Controls for Credit: Occ S	t 18 Elec F	32T8 / Electronic	Hecting Eff
Controls for Credit: Occ S Mechanical Measures Modular: Type:	t 18 Elec F. Sensor > 250 sq	32T8 / Electronic ft Cooling Eff.:	Hecting Eff
Controls for Credit: Occ S Mechanical Measures Modular: Type:	t 18 Elec F. Sensor > 250 sq	32T8 / Electronic ft Cooling Eff.:	22

Economizer:

STUB OUT LOCATIONS FOR WATER, WASTE AND GAS ARE DIAGRAMITICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT THE FACE OF THE BUILDING.

Duct Insulation: R-4.2

GENERAL NOTES HEATING VENTILATING AND AIR CONDITIONING (HVAC) Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.

Reference

Brands: BARD WH431A-XXXXXX

MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT

All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.

Ductwork. A.) Construct all ductwork of galvanized sheet metal in accordance with C.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberalass duct wrap with vopor barrier. Provide 1" duct attenuation at all ductwork within 2—'0" of HVAC unit.

B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 2' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. Reference Brands: Owens-Corning fiberglass ducttboard 1" thick, and Micro-aire, TYPE 475. Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.

3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.

4. Supply air diffusers shall be 675 CFM max. 12" round. 1" fiberglass or flexduct

ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knauf, Certainteed, or equal and 90- B: UL #131 test, class 1 rating with "SMACNA"

Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers

Air conditioning controls.

Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.

A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period. Key board lockout switch.

Programmable display.

2-hour override minimum Status Indicated Led's.

Battery back-up. Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92-371 @ +60" SEALED.

7. Thermal insulation

A.) Roof Insulation: R-19 Unfaced. Walls Insulation: R-11 Kraft Faced. Floors Insulation: R-11 Kraft Faced.

Flame spread and smoke development shall conform to California Building Code sec. 707.

Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory—made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliancewith U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

DIV. OF THE STATE ASCHITECT

AFF03- 108679 ACTO 30 30 DA DATE JUL 216 2005 IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES ____FLS.___SS_

BASED ON PC# 02-104915

PROJECT No.

24 X 40 RELOCATABLE CLASSROOMS





CUSTOMER: BAKERSFIELD CITY SCHOOL DISTRICT

MECHANICAL PLAN & NOTES

DATE: 11/29/04 SCALE: NONE DRAWN BY: RS CHECKED BY: CHECKED BY: SERIAL NO.

REVISIONS NO DATE DESCRIPTION NO DATE DESCRIPTION

SHEET No.