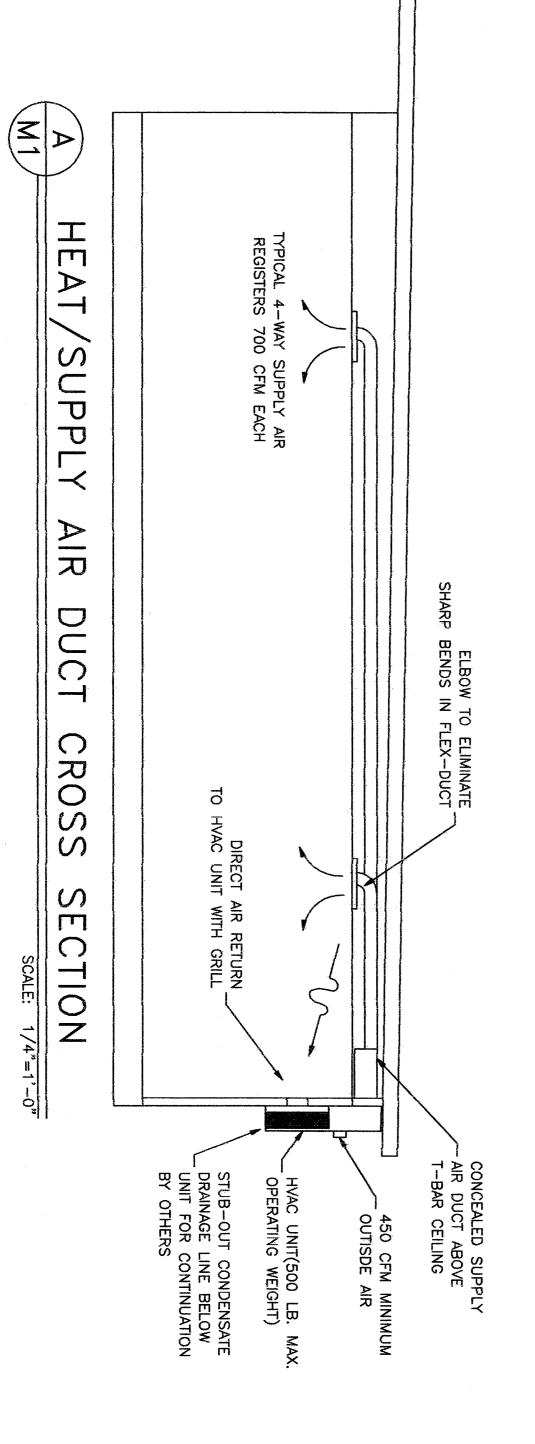


 $\langle \mathbf{Z} | \mathbf{w} \rangle$ HEAT, EVERGREEN ELEMENTARY SUPPLY AR SCHOOL DUCT LAYOUT •



TITLE **Lighting Measures** Modular: Envelope Measures Wall: Controls Floor: R-11 (Batt) Roof: R-19 (Batt) INSULATION T-Stat: See Title 24 Energy Compliance Report Booklet for More Details. R-11 (Batt) Quantity: Description for 24 уре: Credit: Electric (3) 4ft fluorescent T8 Elec G ENERGY Heat (KW): 0.0 COMPLIANCE 1,065 Frames: GLAZING Tinting: Panes: sq ft F32T8 / Electronic Duct Duct Isulation: Metal SHGC 10.20 SEER Location: Conditioned U-Factor: SUMMARY Heating Total Watts: Gray

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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.

All units shall be 230/208 volt, 1 tested & approved or comparable energy standards.

phase system, UL and meet current

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 fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.

F. Piping drain and

95/5

E. Sewer A allowable cobe easily coshould be

Whiterock— stainless steel classroom sink model #KS 631 Sewer And Water Stub Outs — shall be located within the wable area as shown on floor plan and connections should easily accessible for future relocation. Stub out height ould be coordinated by the manufacturer.

6310

D. Toilet Room Mirrors — Bobrick B165 or equal, 18x30 stainless steel channel framed, mounted above each toilet room sink at +40" max.

C. Grab Bars — 1—1/4" Diameter, 18 ga., 304 stainless st satin finish, 1—1/2" stand off from wall, concealed or exposed mounting. Structural strength of grab bars (250#min.), mounting length (see floor plan), and configuration shall be as required by Title 24, section 2—411.C.

	-	-	EF-1	MARK	
			EF-1 EXHAUST FAN 110 1050 .10" 115-10	DISCRIPTION	EXHAUST
		`	110	CFM	AF
The state of the s		-	1050	WATTS	S
			.10"	S.P.	
			115-10	CFM WATTS S.P. VOLT/PH	FAN
		CEILING MOUNTED	NUTONE 672		4

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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.

Air duct insulation and linings shall comply with flame spread less than or equal to 50.

Supply air diffusers shall be 675 CFM max. 12" round. 1" floerglass or fleeduct ductwork specifically designed to provide air thermal cooling systems. 24*28"x1" Micro-aqual to 50.

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

A) 5 and 2 weekday/weekend 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. Rey board lockout switch.

E) Provide lockout switch.

E) Provide locking clear thermostat cover with thermostat shall have the following with 4 separate time/temperature setting for 24-hour period. Programmable display.

E) Provide locking clear thermostat cover with thermostat cover with a cases hale for program override. White Rodgers IF92-371. Mount at + 60" sealed.

A) Rod Insulation: See title 24 energy compliance summary this page. B) walls resultation and shall be installed in accordance with the terms of their listing and the requirements of UMC. Standard No. 6-1 and its class designation.

Thermostic by the manufacturer with a label or other situation indicating compliancewith.

For the program of the sea of their listing and the requirements of UMC. STD. 6-1.

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HVAC	CFM	CHART
MODEL NUMBER DISCRIPTION		MAX. CFM
WH421-A	3 1/2 TON HEAT PUMP	1400
WH482-A	4 TON HEAT PUMP	1550
WH602-A	5 TON HEAT PUMP	1700

HEAT,

SUPPLY

AR

DUCT

LAYOUT

ROOSEVELT ELEMENTARY

SCHOOL

SCALE:

1/4"=1'-0"

DUCT SUPPORT
Flex duct to be supported with 1
ga. galv. strap @ max 6'-0" o.c.
SMS @ each end.
Supply air plenum to be supporte
wide x 26 ga. galv. straps min. 2
Supply air box and diffusers to b
ga. hanger wires to box @ oppos
Supply air box and diffusers to b
slack wires to box @ opposite co
diffusers to ceiling grid to resist
the weight of the diffuser and su to be supported with 1-1/2"

v. straps min. 2 per plenum.
diffusers to be supported with (2) 12
to box @ opposite corners.
diffusers to be braced with (2) 12 ga.
@ opposite corners. Attach supply air grid to resist a lateral load equal to diffuser and supply air box W/2 #8 SMS. -1/2" wide x Attach to ra x 26 rafter W/2 SMS #8

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S & S

THESE DR. 9 TITLE DRAWINGS 24 ENERGY CONSERV, 유 井 COMPLY STATE 유 ATION REQUIREMENTS CALIFORNIA

CITY **SCHOOLS**

MECHANICAL NOTE

36 X 40 PC RELOCATABLE CLASSROOMS

American Wodular Systems 787 Spreckels Ave. Manteca, CA 95336 (209)825-1921 Fax (209)825-7018 americanmodular.com

BAKERSFIELD

CUSTOMER:

DATE: 05/ SCALE: NON DRAWN BY: CHECKED BY: CHECKED BY: SERIAL NO.

D.M.

05/25/07 NONE

REVISIONS

NOTE

STUB OUT LOCATIONS FOR WATER, WATER, WAND GAS ARE DIAGRAMITICAL ONLY.

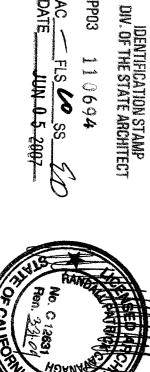
EXACT LOCATIONS MAY VARY +/- SE FEET. PLEASE CONTACT AMERICAN MC SYSTEMS FOR EXACT LOCATIONS.

POINT OF CONNECTION WILL BE AT THE FACE OF THE BUILDING.

MODULAR

WASTE

APP03



110694

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.

Reference
RARD WH421A-XXXXXX

RESTROOM LAVATORY—AMERICAN STANDARD—DECLYN WALL—HUNG LAVATORY

MODEL # 0321.026

RESTROOM FAUCETS—AMERICAN STANDARD—COLONY SINGLE CONTROL

LAVATORY FAUCET MODEL # 2175.202

CHROME PLATED P—TRAP WITH CLEAN OUT AND INSULATED

WITH A MAXIMUM FLAME SPREAD OF 25 & SMOKE DENSITY OF

STRAINER 1/2"x3/8" TUBING ANGLE

WC— WATER CLOSETS SHALL BE WATER SAVER TANK TYPE

ELONGATED BOWL WITH OPEN FRONT TOILET SEAT AND SHALL

BE MOUNTED AS SPECIFIED ON FLOOR PLAN AND IN COMPLIANCE

W/TITLE 24 PROVIDE ONE HANDICAPPED ADULT AMERICAN STANDARD

299B.012 TWO CHILD

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

BARD BARD BARD WH421A-XXXXXX
WH482A-XXXXXXX

DATE JUN 0 5 2007

PROJECT No.