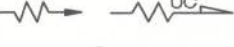
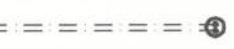


HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR		X
FIRE DAMPER(S)		X
SMOKE DAMPER(S)		X
FIRE RATED ENCLOSURE		X
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		X
FIRE STOPPING		X
SMOKE CONTROL		X

FAN SCHEDULE				
FAN NO.	EF-1	EF-2	EF-3	EF-4
Area Served	M. Bath	Bath #2	Mudroom	Kitchen
Location	ceiling	ceiling	ceiling	hood
Type	centrifugal	centrifugal	centrifugal	centrifugal
Fan RPM	1200			
C.F.M.	55			
Discharge	Eave	Eave	Eave	Eave
Notes				
Static Pressure	0.500			
Type of Drive	Direct	Direct	Direct	
H.P. (motor)				
Electrical Svc.	120V/ph60	120V/ph60	120V/ph60	
Manufacturer				
Model NO.				
Remarks	A) BACKDRAFT DAMPER B) ROUTE 4" EXHAUST DUCT AS PER PLAN			

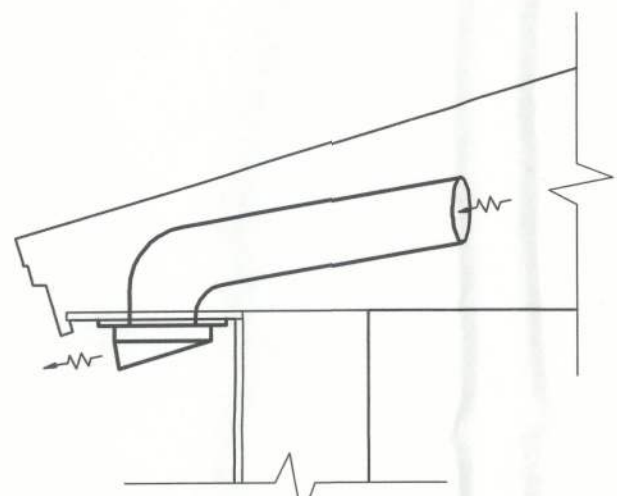
HVAC LEGEND	
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
RTU	ROOF TOP UNIT
OAI	OUTSIDE AIR INTAKE
LD	LINEAR DIFFUSER
CD	CEILING DIFFUSER
CG	CEILING GRILLE
HP	HEAT PUMP UNIT
TG	TRANSFER GRILLE
	CEILING REGISTER-- one way
	EXHAUST FAN
	AIR FLOW / UNDERCUT DOOR 1'
	THERMOSTAT
	NEW DUCTWORK
	EXIST. DUCTWORK TO REMAIN
	NEW FLEXIBLE DUCT
	REFRIGERANT LINES IN 4" PVC
	CONDENSATE LINE

MECHANICAL NOTES	
1.	The Contractor shall furnish all labor, materials and equipment for a complete HVAC system in full accordance with these drawings, and the Florida Building Code- Residential, 2007 edition, and all of its referenced codes and standards.
2.	All air conditioning ductwork shall consist of 1-1/2" standard duty foil reinforced fiberglass (R-6) with manufacturer's logo printed on the vapor barrier when it is installed above ceilings.
3.	All exhaust ductwork shall be code gage galvanized sheet metal.
4.	Duct sizes shown represent the net free area inside.
5.	All air devices (diffusers, registers and grilles) shall be of all aluminum construction, with exposed surfaces chemically treated to receive paint to match color to be selected by Owner.
6.	Provide opposed blade dampers at all diffusers and registers.
7.	Thermostats shall be combination cooling/heating with system Cool/Auto/Heat/Off and Fan On/Auto selector switches.
8.	Refrigerant piping shall be copper Type 'L' with 3/4" Armaflex. Insulation shall be provided for suction lines.
9.	All underground refrigerant piping shall run in 4" PVC conduit with sealed ends.
10.	Undercut doors 1' for air return in addition to any indicated transfer ducts.
11.	Provide new filters for fan coils before starting. Replace with new filters before final acceptance by Owner.
12.	Flood zone 'X'---place top of condensing unit slab at 6' above grade.
13.	Toilet exhaust fans EF-1 & EF-2: 'NUTONE' MODEL LS-50, 50 CFM, 115V-1-60, 0.5 AMP, 0.1 SONES.
14.	Toilet exhaust fan EF-3: 'NUTONE' MODEL LS-80, 80 CFM, 115V-1-60, 0.5 AMP, 0.8 SONES.

Mini-Split HEAT PUMP SCHEDULE	
SANYO	AREA SERVED
OUTDOOR UNIT	CMH24T2A
Power	230/208V / 1 / 60
Running Amps (230V)	9.6 cool / 9.6 heat
Fuse	20 Amp
Capacity, btuh	23200 cool/ 29200 heat
INDOOR UNIT 'A'	KMH812T2 Garage
Power	230/208V / 1 / 60
Cooling capacity, btuh	3,000 to 11,900
Heating capacity, btuh	3,000 to 14,300
SEER	13.0 - 16.0
INDOOR UNIT 'B'	KMH80T12 Kitty Quarters
Power	208/160
Cooling capacity, btuh	3,000 to 7,500
Heating capacity, btuh	3,000 to 8,500
INDOOR UNIT 'C'	KMH80T12 Crafts Room
Power	208/160
Cooling capacity, btuh	3,000 to 7,500
Heating capacity, btuh	3,000 to 8,500

AIR DISTRIBUTION SCHEDULE				
SYM.	USE	TYPE	ACCESSORIES	MFR. & MODEL NO.
A				
B				
NOTES: 1. COORDINATE COLOR FINISH WITH ARCHITECT. 2. ALL GRILLES SHALL BE OF ALUMINUM CONSTRUCTION. 3. APPROVED EQUAL MANUFACTURERS ARE ACCEPTABLE.				

AIR COOLED SPLIT A/C UNIT SCHEDULE			
AIR HANDLING UNIT	UNIT DESIGNATION	AHU-1	AHU-2
	AREA SERVED	LIVING AREA/ See plan	BEDROOMS/ See plan
	OPERATING WEIGHT LBS.		
	DESIGN MANUFACTURER	RHEEM	RHEEM
	MODEL NUMBER	RGFR-121AR11	RHFL-HM2421
	TOTAL AIR, CFM	1575	600
	VENT AIR, CFM		
	EXTERNAL STATIC PRESSURE, IN. OF H ₂ O	0.5	0.5
	FAN MOTOR HP (NON-OVERLOAD) / FLA		
	ELECTRICAL SERVICE: Phase - Frequency - Voltage	1-60-208/230	1-60-208/230
COIL	SMOKE DETECTORS		
	GRAND TOTAL CAPACITY, Btu/h	48,000	24,600
	NET SENSIBLE CAPACITY, Btu/h	35,400	17,600
	ENTERING AIR TEMP. DB/WB		
	TYPE AND THICKNESS	T.A. - 1"	T.A. - 1"
	QUANTITY AND SIZE	1-20" x 20"	1-20" x 20"
	ELECTRIC HEAT CAPACITY, kW		
	NO. OF HEATING STRIPS	2	2
HEAT FILTER	UNIT DESIGNATION	CU - 1	CU - 2
	TOTAL CAPACITY, Btu/h	48,000	24,600
	NUMBER & TYPE OF FAN	1- PROPELLER	1- PROPELLER
	ELECTRICAL SERVICE: Phase - Frequency - Voltage	1-60-208/230	1-60-208/230
	COMPRESSOR, Rated Load Amperes (RLA)	26.9/26.9	10.3/10.3
	COMPRESSOR, Locked Rotor Amperes (LRA)	117	52
	FAN MOTOR, Full Load Amperes (FLA)	2.8	0.5
	FUSE or CIRCUIT BREAKER, min / max	45 / 60	20 / 20
	OPERATING WEIGHT, lbs.	326	236
	DESIGN MANUFACTURER	RHEEM	RHEEM
AIR COOLED CONDENSING UNIT	MODEL NO.	RA8L-024JEC	RA8L-024JEC
	SEER	17.5	16.5
	REF. LINE SIZE, O.D. Suction/Liquid (Below coil)	7/8" / 3/8"	3/4" / 3/8"
NOTE: PROVIDE THERMOSTAT WITH SUB-BASE AND AHU MOUNTED CIRCUIT BREAKER.			



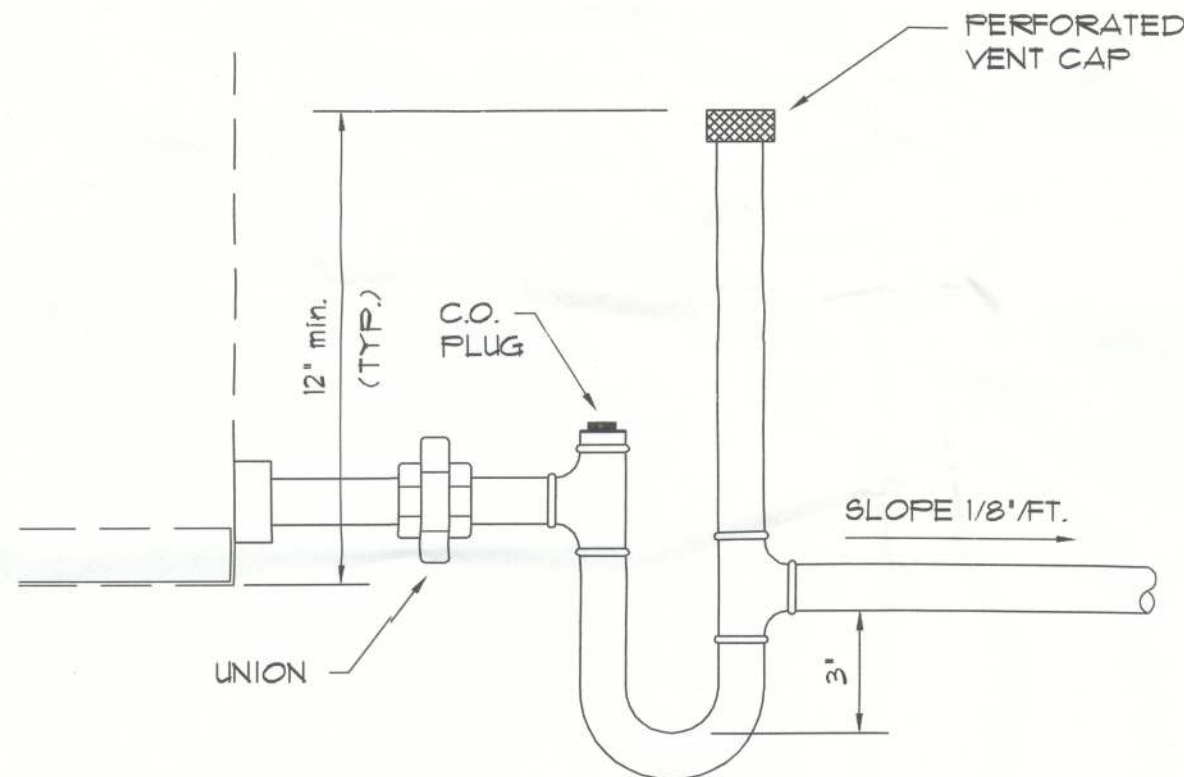
EXHAUST CAP DETAIL

n.t.s.

NOTE: TOILET EXHAUST SHALL DISCHARGE TO THE EXTERIOR THROUGH THE EAVE SOFFIT. PROVIDE A CORROSION RESISTANT MESH WITH OPENINGS NOT LARGER THAN 1/2".

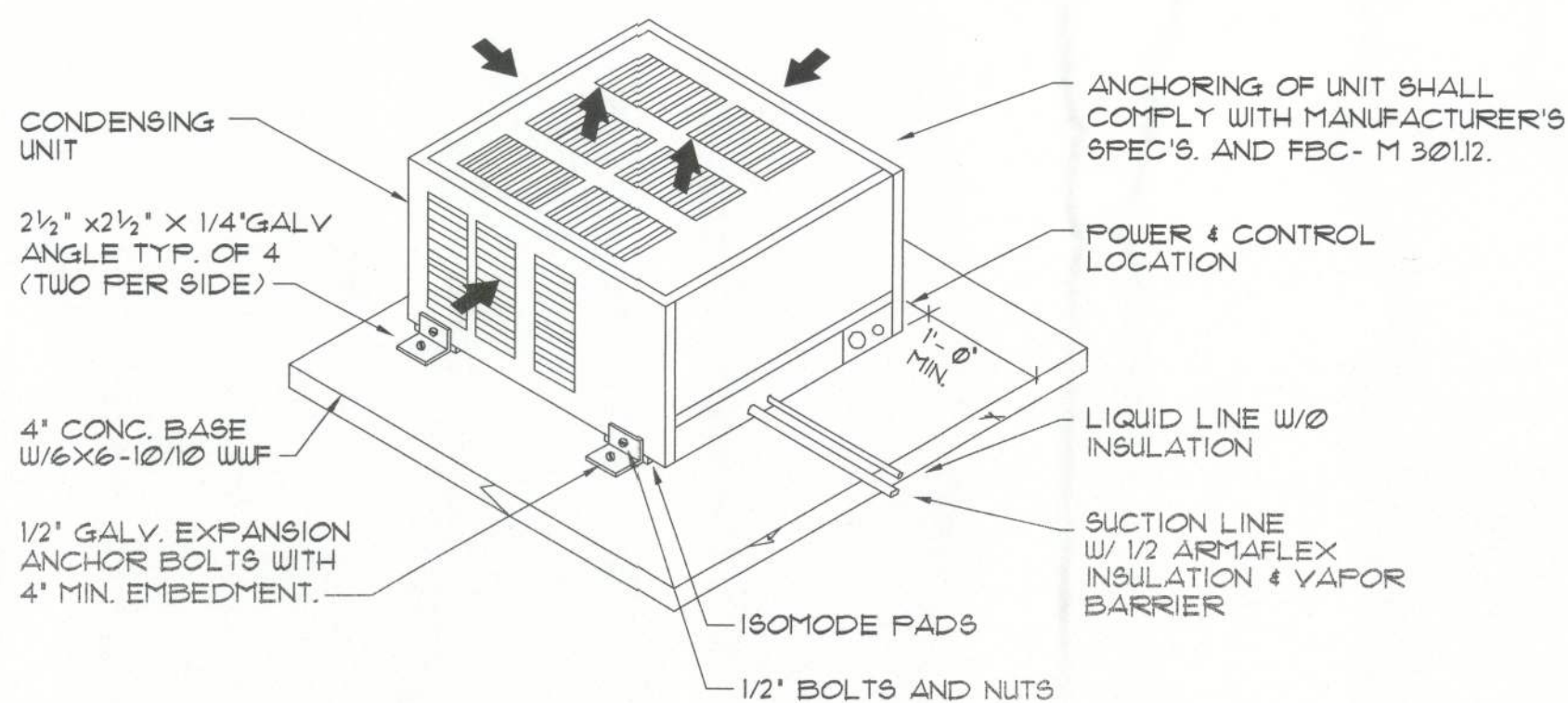
NOTE: DRYER EXHAUST SHALL DISCHARGE TO THE EXTERIOR THROUGH THE EAVE SOFFIT. DO NOT COVER THE DISCHARGE OPENING WITH MESH.

NOTE: KITCHEN HOOD SHALL DISCHARGE TO THE EXTERIOR THROUGH THE EAVE SOFFIT. PROVIDE A CORROSION RESISTANT MESH WITH OPENINGS NOT LARGER THAN 1/2".



CONDENSATE TRAP DETAIL

n.t.s.

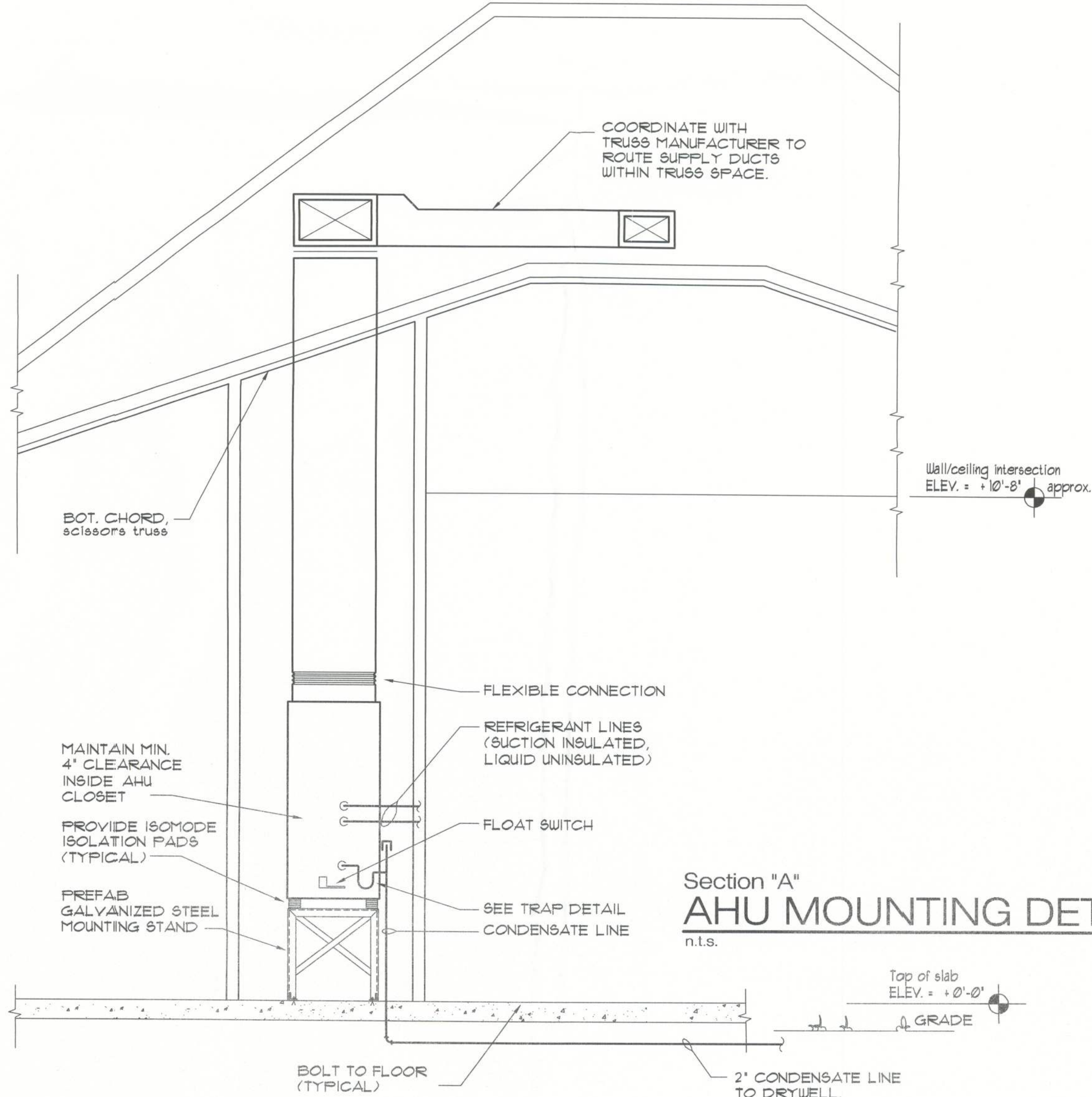


NOTE: SEAL ENTRANCE OF REFRIGERANT LINES INTO PVC PIPE IMPERMEABLE, RESILIENT MATERIAL (SEE DETAIL).

C.U. MOUNTING DETAIL

n.t.s.

This is only a schematic representation to describe general concepts intended for a secure and proper installation of the specified equipment. If the actual unit differs in appearance or configuration, make appropriate adjustments and/or adaptations to satisfy the intent of this detail.



Section "A" AHU MOUNTING DETAIL

n.t.s.



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scale:

consultants:

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New Residence for
Mr. & Mrs. Wade Schile
319 Singleton Terrace, Columbia County, Florida

Date: July 14, 2011

Project no.

Drawn: JRFP

Checked: JRFP

Revisions:

Sheet title:

A/C DETAILS

Sheet no.

M101