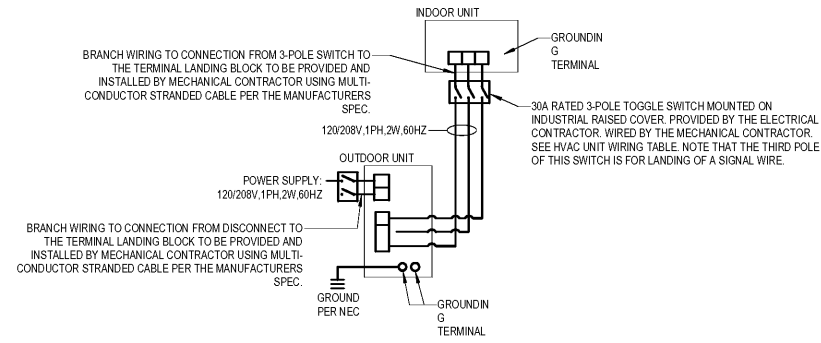


2 THERMOSTAT WALL BOX DETAIL
SCALE: N.T.S.



3 HVAC Ductless Split Wiring Diagram
SCALE: N.T.S.

HVAC Unit Wiring Table

Mark	MCA	Wire	Ground	Conduit	Disconnect	FUSE	Enclosure	Volts	Phase	Breaker	Watts	CFM	Tons
AHU-1	51.0 A	#8	#10	1-1/4"	60A/2P	60 A	NEMA 1	208 V	1	70A/2P	8486	1365	
AHU-2	51.0 A	#8	#10	1-1/4"	60A/2P	60 A	NEMA 1	208 V	1	70A/2P	8486	1290	
AHU-3	98.7 A	#3	#6	1-1/2"	100A/3P	100 A	NEMA 1	208 V	3	125A/3P	28446	2570	
AHU-4	38.0 A	#8	#10	1"	60A/2P	40 A	NEMA 1	208 V	1	50A/2P	6324	840	
AHU-5	38.0 A	#8	#10	1"	60A/2P	40 A	NEMA 1	208 V	1	50A/2P	6324	1000	
AHU-6	25.0 A	#8	#10	1"	30A/2P	25 A	NEMA 1	208 V	1	30A/2P	4160	475	
AHU-7	96.0 A	#3	#6	1-1/2"	100A/2P	100 A	NEMA 1	208 V	1	125A/2P	15974	1700	
DCU-1	7.0 A	#12	#12	3/4"	30A/2P	15 A	NEMA 3R	208 V	1	20A/2P	1166		1
DCU-1					SEE TABLE NOTE 4			208 V	1				
EWH-1	#10	#10	3/4"	HARDWIRED				208 V	1	30A/2P	3000		
F-1	#12	#12	3/4"	20A MRS			NEMA 1	120 V	1	W/ LIGHTS	80		
F-2	#12	#12	3/4"	20A MRS			NEMA 1	120 V	1	W/ LIGHTS	80		
HP-1	26.0 A	#8	#10	1"	60A/2P	45 A	NEMA 3R	208 V	1	50A/2P	4326	4	
HP-2	26.0 A	#8	#10	1"	60A/2P	45 A	NEMA 3R	208 V	1	50A/2P	4326	4	
HP-3	33.0 A	#8	#10	1"	60A/3P	45 A	NEMA 3R	208 V	3	50A/3P	9510	7.5	
HP-4	17.0 A	#8	#10	1"	30A/2P	25 A	NEMA 3R	208 V	1	30A/2P	2830	2.5	
HP-5	17.0 A	#8	#10	1"	30A/2P	25 A	NEMA 3R	208 V	1	30A/2P	2830	2.5	
HP-6	12.0 A	#10	#10	3/4"	30A/2P	20 A	NEMA 3R	208 V	1	30A/2P	2000	1.5	
HP-7	32.0 A	#8	#10	1"	60A/2P	50 A	NEMA 3R	208 V	1	60A/2P	5326	5	
WH1	#8	#10	1"	60A/2P	0 A			208 V	1	30A/2P	6000		
WH2	#10	#10	1"	HARDWIRED				208 V	1	30A/2P	3600		

TABLE NOTES

1. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.

2. PROVIDE NEUTRALS ON AS REQUIRED BY THE FIELD VERIFY.

3. NOT USED.

4. UNIT IS POWERED FROM ITS OUTDOOR UNIT. FIELD COORDINATE UNIT PAIRINGS WITH THE MECHANICAL CONTRACTOR PRIOR TO DOING ANY WORK. THE ELECTRICAL CONTRACTOR IS TO RUN SOLID WIRE FROM THE PANEL TO THE DISCONNECT AT THE CONDENSER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE RACEWAY OR PENETRATIONS AS REQUIRE FOR USE BY THE MECHANICAL CONTRACTOR IN HIS WIRING OF THE INDOOR UNIT. THE ELECTRICAL CONTRACTOR TO PROVIDE MOTOR RATED SWITCH AT THE INDOOR FOR LOCAL DISCONNECTING MEANS, BUT THIS IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AS PART OF HIS CONNECTIONS FROM THE OUTDOOR UNIT TO THE INDOOR UNIT. SEE DETAIL ON THIS SHEET.

GENERAL PLAN NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL DISCONNECT SWITCHES REQUIRED BY THE PROJECT. PRIOR TO THEIR INSTALLATION, THE INSTALLED LOCATION OF ANY DISCONNECT SHALL NOT IMPEDE THE ACCESS TO, OR WORKING SPACE AROUND, ANY PIECE OF EQUIPMENT. NEITHER SHALL THE LOCATION CAUSE ANY LOSS OF EQUIPMENT PERFORMANCE DUE TO IMPEDED AIR FLOW, ETC. THIS REQUIREMENT APPLIES REGARDLESS OF THE LOCATION SHOWN FOR THE DISCONNECTS ON THE PLANS. IF THERE IS ANY QUESTIONS AS TO DISCONNECT LOCATION, THE CONTRACTOR SHALL ASK THE ENGINEER FOR CLARIFICATION PRIOR TO INSTALLATION. IF ANY DISCONNECT IS FOUND TO BE INSTALLED IN SUCH A WAY THAT IT CAUSES ANY PROBLEMS AS MENTIONED ABOVE, IT SHALL BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR. LOCATE DEVICE SO AS TO HAVE 3FT CLEARANCE IN FRONT OF ALL DISCONNECTS.
2. ELECTRICAL CONTRACTOR IS TO PROVIDE SINGLE GANG BOXES STUBBED OUT ABOVE CEILING IN AT ALL THERMOSTAT LOCATIONS. REFERENCE MECHANICAL PLANS FOR LOCATIONS. COORDINATE WITH MECHANICAL SYSTEMS PROVIDER FOR ADDITIONAL LOCATIONS WHERE BOXES AND CONDUIT ARE REQUIRED AND FOR MOUNTING HEIGHTS OF ALL DEVICES. SEE DETAIL ON THIS SHEET.
3. LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS.
4. ALL OVERHEAD ROUTING OF CONDUIT TO BE INSTALLED TIGHT TO STRUCTURE.

KEYNOTE LEGEND

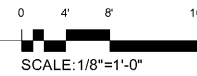
MARK	KEYNOTE TEXT
1	LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2" PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL (TYPICAL)
2	MOUNT DISCONNECT SWITCH AT UNIT AS DESCRIBED IN GENERAL NOTE 1 ON THIS SHEET.
3	PROVIDE 120V CONNECTION TO EXHAUST FAN PROVIDED AND INSTALLED BY MECHANICAL AND WIRED BY ELECTRICAL. PROVIDE MOTOR RATED SWITCH AT UNIT TO SERVE AS MEANS OF DISCONNECT FOR UNIT. SWITCH SHALL BE RATED TO HANDLE LOAD OF UNIT. VERIFY LOAD OF UNIT TO BE SUPPLIED WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING SWITCH. FAN TO SWITCH WITH LIGHTS IN ROOM. PROVIDE ALL RELAYS, CONTACTS AND CONNECTIONS.
4	HVAC UNIT THERMOSTAT. REFER TO DETAIL ON SHEET E4.1. FIELD COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
5	UNIT IS POWERED FROM ITS OUTDOOR UNIT. FIELD COORDINATE UNIT PAIRINGS WITH THE MECHANICAL CONTRACTOR PRIOR TO DOING ANY WORK. THE ELECTRICAL CONTRACTOR IS TO RUN SOLID WIRE FROM THE PANEL TO THE DISCONNECT AT THE CONDENSER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE RACEWAY OR PENETRATIONS AS REQUIRE FOR USE BY THE MECHANICAL CONTRACTOR IN HIS WIRING OF THE INDOOR UNIT. THE ELECTRICAL CONTRACTOR TO PROVIDE MOTOR RATED SWITCH AT THE INDOOR FOR LOCAL DISCONNECTING MEANS, BUT THIS IS TO BE WIRED BY THE MECHANICAL CONTRACTOR AS PART OF HIS CONNECTIONS FROM THE OUTDOOR UNIT TO THE INDOOR UNIT. SEE DETAIL ON SHEET E4.1.
6	PROVIDE 120V CONNECTION AT HOT WATER RECIRCULATION PUMP. FIELD COORDINATE EXACT LOCATION WITH THE PLUMBING CONTRACTOR. WIRE AS PER MANUFACTURER SPECS. PROVIDE 20A INDUSTRIAL RATED SWITCH IN "HAND" BOX AT PUMP FOR MEANS OF DISCONNECT.
7	AT EACH OF THE OUTDOOR SECTIONS OF THE HVAC SPLIT SYSTEM UNITS, THE ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL & WIRE A TIME DELAY RELAY DEVICE FOR STEP LOADING OF THE GENERATOR. FIELD COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR FOR INSTALLATION AND CONNECTION IN THE CONTROLS COMPARTMENT ON COMPRESSOR CONTROL COIL. PROGRAM WITH MINIMUM 40 SECOND DELAY THEN SET EACH RELAY FOR RANDOM START AFTER THE INITIAL 40 SECOND DELAY PERIOD. EACH UNIT TO BE SET TO A DIFFERENT START (REFER TO GENERATOR STEP LOADING NOTES ON SHEET E5.2). THE LITTLEFUSE T2D SERIES DEDICATED HVAC LOCKOUT RELAY WITH RANDOM START IS A TYPICAL EXAMPLE. SUBMIT OUT SHEET FOR APPROVAL IN SHOP DRAWINGS. PROVIDE ALL REQUIRED CABLING IN CONDUIT UNDERGROUND FROM HVAC UNIT TO THE GENERATOR. PROVIDE 120V CONNECTION AT COILS AS REQUIRED.



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E4.1
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