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GENERAL HVAC NOTES

GENERAL REQUIREMENTS:

- MECHANICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH FL MECHANICAL CODES AND ALL OTHER APPLICABLE CODES. MC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
- ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE. IF LONGER, ALL COMPRESSORS ARE TO INCLUDE FIVE (5) YEAR WARRANTY. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR CLEAR DUCT DIMENSIONS AND DO NOT INCLUDE REQUIRED ADJUSTMENTS FOR INSULATION. IF EXTERNAL INSULATION IS TO BE USED THE ACTUAL METAL DUCT DIMENSIONS SHALL MATCH THE DUCT DIMENSIONS SHOWN. IF INTERNAL INSULATION IS TO BE USED, THE ACTUAL METAL DUCT DIMENSIONS MUST BE INCREASED SO THAT THE INSIDE CLEAR DIMENSION (INSULATION FACE TO INSULATION FACE) MATCHES THE DIMENSIONS SHOWN ON THE PLAN. SEE DETAIL.
- INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
- BEFORE BID MC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
- AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE MC SHALL PROVIDE SUBMITTALS OF MECHANICAL EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
- ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
- UPON COMPLETION OF WORK M.C. IS TO PROVIDE OWNER W/ COMPLETE BOUND SET OF ALL EQUIPMENT OPERATION & MAINTENANCE MANUALS. PACKAGE IS ALSO TO INCLUDE AND WARRANTY & GUARANTEE INFORMATION.
- M.C. IS TO PROVIDE TRAINING TO OWNER OR OWNER'S REPRESENTATIVE IN REGARDS TO OPERATION, FUNCTION, AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, CONTROLS, ETC.
- M.C. IS TO REVIEW COMPLETE DRAWING SET. M.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED.

DIVISION OF WORK:

- ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ETC ARE TO BE PERFORMED BY ROOFING CONTRACTOR. M.C. RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC AND COMMUNICATING ALL REQ'S WITH G.C. & ROOFING CONTRACTOR.
- ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
- G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO MECHANICAL SYSTEM. M.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
- MECHANICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF MECHANICAL EQUIPMENT & SYSTEMS.
- G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED DUCT, PIPING, GRILLES, ETC. M.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
- G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS PLATFORMS, GUARD RAILS, LADDERS, CONCRETE PADS. M.C. TO COMMUNICATE REQ'S TO G.C.
- G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY WALL LOUVERS BRICK VENTS OR SIMILAR. M.C. TO PROVIDE AND INSTALL ANY WALL CAPS.

COORDINATION:

- THE MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE MECHANICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC).
- MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- M.C. TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS W/ ROOFING CONTRACTOR. P.C. & M.C. TO COORDINATE TO ENSURE NO PLUMBING VENTS OR ANY OTHER SOURCES OF BUILDING EXHAUST ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES.

MATERIALS:

- ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.

- PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY 2020 FL MECHANICAL CODE.
- ALL MAIN DUCTWORK (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. DUCTBOARD IS ACCEPTABLE ALTERNATIVE IN RESIDENTIAL BUILDINGS.
- RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1.
 - FLEXIBLE AIR DUCTS SHALL BE LIMITED TO 14' IN LENGTH. FLEXIBLE AIR DUCTS SHALL NOT BE LIMITED IN LENGTH.
 - FLEXIBLE AIR CONNECTORS SHALL BE LIMITED TO 14' IN LENGTH. FLEXIBLE AIR CONNECTORS SHALL NOT PASS THROUGH ANY WALL, FLOOR OR CEILING.
- NO FLEXIBLE DUCT ALLOWED FOR NEGATIVE PRESSURE EXHAUST APPLICATIONS.
- ALL SUPPLY AND RETURN DUCTWORK AND PLENUMS SHALL BE INSULATED. INSULATION OF DUCTWORK IN UNCONDITIONED SPACE SHALL BE MINIMUM R-6 PER 2020 FLECC. INSULATION OF DUCTWORK OUTSIDE BUILDING THERMAL ENVELOPE (I.E. ROOF, ATTIC, CRAWLSPACE) SPACE SHALL BE MINIMUM R-8 (CLIMATE ZONES 3 & 4) OR R-12 (CLIMATE ZONE 5) PER 2020 FLECC.
- CONCEALED SHEET METAL SUPPLY & RETURN DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH ACOUSTICAL DUCT LINER.
- OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
- ALL MAIN DUCTWORK (INCLUDING EXHAUST) TO BE SEALED ACCORDING TO 2020 FLECC AND AT A MINIMUM INCLUDE SEALING OF ALL DUCT SEAMS W/ NON-HARDENING MASTIC. SEALING BY TAPE ALONE NOT ALLOWED.
- DUCTWORK ELBOWS SHALL BE FULL RADIUS OR MITERED WITH TURNING VANES.
- CONDENSATE DRAIN PIPING AND FITTINGS NOT IN A RETURN PLENUM SHALL BE SCHEDULE 40 PVC. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED (2" MINIMUM). TRAPS ON INTERIOR OF BUILDINGS TO BE INSULATED. PIPING IN RETURN PLENUM TO BE COPPER OR PLENUM RATED CPVC.
- ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION.
- ALL FIRE, SMOKE AND RADIATION DAMPERS TO BE U.L. LISTED AND APPROVED FOR CORRECT PRESSURE CLASS, APPLICATION (STATIC, DYNAMIC), ORIENTATION (HORIZONTAL/VERTICAL), AND INSTALLATION (WALL, FLOOR CEILING U.L. ASSEMBLY). TO INCLUDE 165° FUSIBLE LINK UNLESS OTHERWISE NOTED.
- ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
- ALL PROGRAMMABLE THERMOSTATS TO INCLUDE BATTERY BACK-UP AND HAVE CAPABILITY TO SETBACK TO 55°F (HEATING) & 65°F (COOLING). AUTO-CHANGEOVER THERMOSTATS TO HAVE A MIN. 5°F DEADBAND.
- WITH THE EXCEPTION OF THE DRYER FLEX CONNECTION ALL DRYER EXHAUST DUCT SHALL BE 40 RIGID SHEET METAL WITH SMOOTH INTERIOR FINISH, 26 GAUGE OR THICKER. JOINT DUCT WITH HIGH TEMP & WATER RESISTANT UL-181 APPROVED FOIL TAPE OR BUND POP-RIVETS.

EXECUTION:

- M.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
- SEAL ALL PENETRATIONS OF RATED WALLS. CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR.
- PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
- SUPPORT ALL DUCTWORK AND PIPING IN ACCORDANCE W/ 2020 FL MECHANICAL CODE. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
- PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2020 FLECC. ALL PENETRATIONS OF WALLS, FLOORS & CEILINGS IN RETURN OR EXHAUST PLENUMS SHALL BE SEALED IN AN AIR TIGHT MANNER.
- DUCT ACCESS DOORS TO BE PROVIDED AT ALL FIRE, RADIATION & SMOKE DAMPERS, SMOKE DETECTORS, CLEANOUTS AND ANY OTHER CODE REQUIRED LOCATIONS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MECHANICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE MECHANICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
- M.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, AND SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT AND THAT THE FORE MENTIONED DOES NOT INTERFERE WITH THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE WITH OTHER TRADE CONTRACTORS AND CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.
- MALE END OF ALL OVERLAPPING DRYER DUCT JOINTS ARE TO BE DIRECTED AWAY FROM DRYER. HORIZONTAL DUCT SECTIONS ARE TO HAVE THE LONGITUDINAL (LONG WAYS) SEAM FACING UP. IF POP-RIVETS ARE USED DUCT JOINTS ARE TO BE SEALED WITH NON-HARDENING MASTIC OR SIMILAR.
- ALL EXTERIOR EQUIPMENT, DEVICES, AND MATERIALS SHALL BE INSTALLED AND BRACED TO WITHSTAND A 160 MPH WIND ZONE.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

AIR HANDLING UNIT DATA														HEAT PUMP							
		FAN DATA					COOLING		HEAT	AUX.	ELECTRICAL DATA			GENERAL DATA			ELECTRICAL DATA				
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (ʹ OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT (KW@208)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	NOTES
AH-1	APT UNITS	GOODMAN AWUT31	600	0.50	1/2	NOTE 12	17.2	13.6	17.2	3.60	208V/1Ø	26.8	30	HP-1	GOODMAN GS214018	1.5	14.0	208V/1Ø	12.2	20	1,2,3,4,8,9,10,11,12,13,14,15
AH-2	APT UNITS	GOODMAN AWUT31	600	0.50	1/2	NOTE 12	17.2	13.6	17.2	3.60	208V/1Ø	26.8	30	HP-2	GOODMAN GS214018	1.5	14.0	208V/1Ø	12.2	20	1,2,3,4,8,9,10,11,12,13,15
AH-3	APT UNITS	GOODMAN AWUT31	800	0.50	1/2	NOTE 12	22.8	18.2	23.2	6.00	208V/1Ø	38.1	40	HP-3	GOODMAN GS214024	2.0	14.0	208V/1Ø	14.6	25	1,2,3,4,8,9,10,11,12,13,14,15

NOTES:

- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.
- REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP. TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED. INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.
- PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
- PROVIDE 2 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION AND AT TURNOVER TO OWNER.
- PROVIDE 3 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION, ONE PRIOR TO AIR BALANCE AND ONE AT TURNOVER TO OWNER.
- PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT W/ MANUAL OVERRIDE.

- NOT USED.
- PROVIDE MFG'S 7 DAY PROGRAMMABLE THERMOSTAT.
- OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING.
- PROVIDE BI-FLOW TXV FOR HEAT PUMP OPERATION.
- OUTDOOR THERMOSTAT TO LOCK-OUT ELECTRIC HEAT WHEN TEMPERATURE IS 40°F OR HIGHER. PROVIDE UNIT WITH EMERGENCY HEAT OVERRIDE OPTION.
- OUTSIDE AIR CFM'S AS INDICATED ON PLAN SPECIFIC VENTILATION CALCULATIONS. OUTSIDE AIR PROVIDED BY UNIT EXHAUST FANS.
- CYCLE PROTECTOR AND TIME DELAY RELAY (IF AVAILABLE).
- PROVIDE MFG'S WALL PANEL.
- PROVIDE HEAT PUMP W/ OPTIONAL "SEA COAST" CORROSION RESISTANCE KIT.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

AIR HANDLING UNIT DATA														HEAT PUMP							
		FAN DATA					COOLING		HEAT	AUX.	ELECTRICAL DATA			GENERAL DATA			ELECTRICAL DATA				
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT (KW@208)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	NOTES
AH-4	CLUBHOUSE	TRANE GAM580C60	2000	.33	1.0	305	60.0	48.0	60.0	10.80	208V/3Ø	46.0	50	HP-4	TRANE 4TWA4060	5.0	14.0	208V/3Ø	21.0	35	1,3,4,5,6,8
AH-5	CLUBHOUSE	TRANE GAM580A24	800	.34	1/3	50	24.0	19.2	24.0	3.60	208V/1Ø	25.0	25	HP-5	TRANE 4TWR4024	2.0	14.0	208V/1Ø	14.0	25	1,3,4,5,6,7

NOTES:

- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.
- EXISTING UNIT. M.C. TO VERIFY NAMEPLATE DATA AND CONTACT ENGINEER IF SIGNIFICANT DISCREPANCY IS FOUND BETWEEN SCHEDULE AND ACTUAL UNIT. M.C. TO ENSURE UNIT IS IN GOOD WORKING ORDER. RE-BALANCE TO CFM'S INDICATED AND PROVIDE NEW FILTERS.
- REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP. TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED. INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.

- PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
- PROVIDE NEW FILTER IN EACH UNIT AT TURNOVER TO OWNER.
- PROVIDE 3 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION, ONE PRIOR TO AIR BALANCE AND ONE AT TURNOVER TO OWNER.
- PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT W/ MANUAL OVERRIDE.
- PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT/HUMIDISTAT W/ MANUAL OVERRIDE AND REHEAT BASED HUMIDITY CONTROL. SET RH TO 60%.

ENERGY REQUIREMENTS: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

PREScriptive ☒ ENERGY COST BUDGET ☐

THERMAL ZONE	1A		
EXTERIOR DESIGN CONDITIONS			
WINTER DRY BULB	16		
SUMMER DRY BULB	75		
INTERIOR DESIGN CONDITIONS			
WINTER DRY BULB	70		
SUMMER DRY BULB	76		
RELATIVE HUMIDITY	50%		
BUILDING HEATING LOAD (MBH)	<u>BLDG 1</u>	<u>CH</u>	<u>MAINT.</u>
	204.6	16.0	3.2
BUILDING COOLING LOAD (MBH)	325.2	54.7	9.5

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY			
DESCRIPTION OF UNIT	SEE SCHEDULES		
HEATING EFFICIENCY	SEE SCHEDULES		
COOLING EFFICIENCY	SEE SCHEDULES		
HEAT OUTPUT OF UNIT	SEE SCHEDULES		
COOLING OUTPUT OF UNIT	SEE SCHEDULES		
BOILER			
TOTAL BOILER OUTPUT	NA		
CHILLER			
TOTAL CHILLER OUTPUT	NA		
LIST EQUIPMENT EFFICIENCIES	SEE SCHEDULES		

DESIGNER'S STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE 2020 FLORIDA ENERGY CODE.

SIGNED: _____
NAME: ZACK L. TOMLIN, PE
TITLE: MECHANICAL ENGINEER

MECHANICAL LEGEND

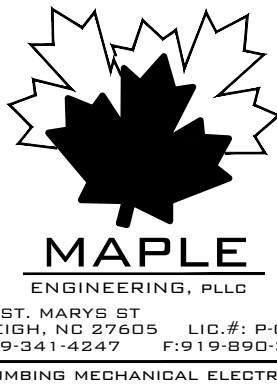
	18x14	RECTANGULAR DUCT
	60	ROUND METAL DUCT
	60	FLEX/RIGID ROUND DUCT
		ELBOW WITH TURNING VANES
		VOLUME DAMPER
		SUPPLY TAP WITH VOLUME DAMPER
		SUPPLY TAP
		SUPPLY DIFFUSER/GRILLE OR RISER
		RETURN REGISTER/GRILLE OR RISER
		EXHAUST REGISTER/GRILLE OR RISER
		SIDEWALL DIFFUSER/GRILLE
		CEILING EXHAUST FAN
		T-STAT
		WIRELESS REMOTE TEMPERATURE SENSOR
		3/4" DOOR UNDER CUT
		LOUVERED DOOR (SEE ARCHITECTURAL DRAWINGS)
		U.L. CEILING RADIATION DAMPER (U.L. 555C LISTED)
		GAS PIPING
		ATTIC ACCESS

Oasis at Surfside - Phase II

Zimmer Development Company

Cape Coral, Florida

PERMIT SET



PROGRESS DATE:	11/17/21	ISSUE DATE:	11/17/21	PROJECT NO:	002221
REVISIONS	NUMBER	DATE	INITIALS	DRAWN BY:	IAK
				CHECKED BY:	ZLT
				SHEET TITLE:	MECHANICAL SCHEDULES NOTES AND LEGEND
				SHEET NUMBER:	M0.01