GENERAL NEW NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
4. WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
5. DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
6. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
7. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
8. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
9. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER.
11. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
12. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
13. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
14. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
15. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
16. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
17. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 16. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
18. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
19. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
20. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.
21. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
22. RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, 1-1/2" (R-4) THICK, INSULATION WRAP ON RIGID ROUND AND UNLINED RECTANGULAR, CONCEALED, SUPPLY AND RETURN AIR DUCTS AND ON OUTSIDE AIR DUCTS. PROVIDE 1" (R-4) 1-1/2 LB DENSITY, INTERNAL DUCT LINER ON RECTANGULAR SUPPLY AND RETURN AIR DUCTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY.
23. PROVIDE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R-4, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
24. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING. AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TO ARCHITECT, ENGINEER, LANDLORD, AND BUILDING OFFICIAL/INSPECTOR A FINAL TEST AND BALANCE REPORT PER MECHANICAL SPECIFICATIONS. TEST AND BALANCE REPORT SHALL BE PROVIDED TO ARCHITECT AND ENGINEER PRIOR TO ENGINEER'S FINAL PUNCH AND FINAL BUILDING INSPECTION.

TEMPERATURE CONTROLS:
COMFORT SYSTEMS USA TO PROVIDE SENSORS AND CONTROLS COMPONENTS AS INDICATED ON PLANS AND NECESSARY TO ACCOMPLISH THE INTENT OF THE DRAWINGS. SEE M3.0 FOR CARRIER CONTACT INFORMATION.

GENERAL CONTRACTOR SHALL INSTALL CARRIER FURNISHED TEMPORARY THERMOSTATS AND FEED THE WIRING DOWN INTO THE SPACE FOR START UP AND CONTROL OF RTU(S) UNTIL THE EMS SYSTEM IS OPERABLE.

CHECK AND VERIFY ALL DIMENSIONS IN THE FIELD AND COORDINATE WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL COORDINATE LOCATIONS OF AIR OUTLETS WITH ARCHITECTURAL DRAWINGS. THE DUCTWORK LAYOUT INDICATED ON THESE DRAWINGS IS SCHEMATIC AND SHOWS DESIGNED INTENT ONLY. PRIOR TO FABRICATION AND INSTALLATION OF ANY DUCTWORK THE HVAC CONTRACTOR SHALL HAVE A QUALIFIED EXPERIENCED SKETCHER PREPARE AND SUBMIT SHEET METAL SHOP DRAWINGS. THE SHOP DRAWING SHALL TAKE INTO ACCOUNT ALL EXISTING CONDITIONS INCLUDING STRUCTURAL MEMBERS, CONDUITS AND PIPING TO REMAIN. SHOP DRAWINGS SHALL ALSO TAKE INTO ACCOUNT ALL NEW DESIGN CONDITIONS INCLUDING NEW STRUCTURAL MEMBERS, NEW CEILING AND SOFFIT HEIGHTS AND LIGHTING FIXTURES. THE SHEET METAL SHOP DRAWINGS SHALL INDICATE ANY REVISIONS TO THE LAYOUT REQUIRED TO ACCOMMODATE THE EXISTING CONDITIONS AND MAINTAIN THE CEILING HEIGHTS AND CLEARANCES REQUIRED. NOTIFY THE ARCHITECT AND ENGINEER OF ANY LOCATION WHERE THE DESIGN INTENT CAN NOT BE MET PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK. ANY REVISIONS TO DUCTWORK, EQUIPMENT, CONDUIT OR PIPING REQUIRED BY CONTRACTOR'S FAILURE TO SUBMIT PROPERLY PREPARED SHOP DRAWINGS FOR COORDINATION SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT AND DELAY TO THE PROJECT SCHEDULE.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL INDICATE PROPOSED LOCATIONS OF PIPING, DUCTWORK, SPRINKLER PIPING, AND LIGHTING, AS WELL AS LOCATIONS OF STRUCTURAL BEAMS AND OTHER RELEVANT STRUCTURAL FEATURES. COORDINATION DRAWINGS SHALL INDICATE HEIGHTS OF ALL DUCTWORK, PIPING, STRUCTURAL BEAMS, AND CEILINGS TO ENSURE INSTALLED EQUIPMENT WILL FIT ABOVE CEILING. GENERAL CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.

MECHANICAL PLAN NOTES

1. EXISTING WATER SOURCE HEAT PUMP UNIT AND ASSOCIATED CONDENSER WATER PIPING TO REMAIN. ALL EXISTING OUTSIDE AIR DUCTWORK AND DUCT RISERS UP THRU ROOF SHALL REMAIN. PRIOR TO STORE OPENING, MECHANICAL CONTRACTOR SHALL PROVIDE NEW AIR FILTERS FOR UNIT.
2. CONNECT TO EXISTING SUPPLY AIR DUCT AT LOCATION INDICATED. BALANCE REMAINING AIR DEVICES UNIT SERVES TO AIRFLOWS INDICATED ON PLANS.
3. EXISTING SUPPLY DUCTWORK CONTINUES ON TO SERVE SALES FLOOR. VERIFY DUCTWORK IS INSTALLED AT AN ELEVATION ABOVE NEW BUS STRUT. MODIFY DUCTWORK HEIGHT AS REQUIRED TO MAINTAIN CLEARANCE ABOVE BUS-STRUT.
4. EXISTING TEMPERATURE SENSOR TO REMAIN. FIELD VERIFY EXACT LOCATION OF UNIT.
5. RELOCATE EXISTING TEMPERATURE SENSOR TO INDICATED LOCATION MOUNTED AT 48" AFF MAXIMUM. COORDINATE FINAL LOCATION OF SENSOR WITH ARCHITECT PRIOR TO INSTALLATION OF THERMOSTAT BACKING OR WIRING.
6. PROVIDE MOTORIZED DAMPER IN LOCATION INDICATED. DAMPER SHALL CLOSE WHEN SUPPLY AIR TEMPERATURE IS ABOVE 65 DEGREES FAHRENHEIT. DAMPER SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND ACTUATOR SHALL BE PROVIDED BY EMS CONTRACTOR.
7. EXISTING THERMOSTAT FOR CONTROL OF AV ROOM EXHAUST FAN.
8. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
9. REMOVE EXISTING DUCT MOUNTED SUPPLY GRILLE AND REPAIR DUCTWORK.
10. CONNECT TO EXISTING EXHAUST DUCT RISER.
11. EXISTING DUCT SMOKE DETECTOR TO REMAIN.

THIS DRAWING IS PROVIDED FOR REFERENCE ONLY TO IDENTIFY EXISTING EQUIPMENT AND SHOW GENERAL EXISTING CONDITIONS.

UNIT REPLACEMENT SCOPE:

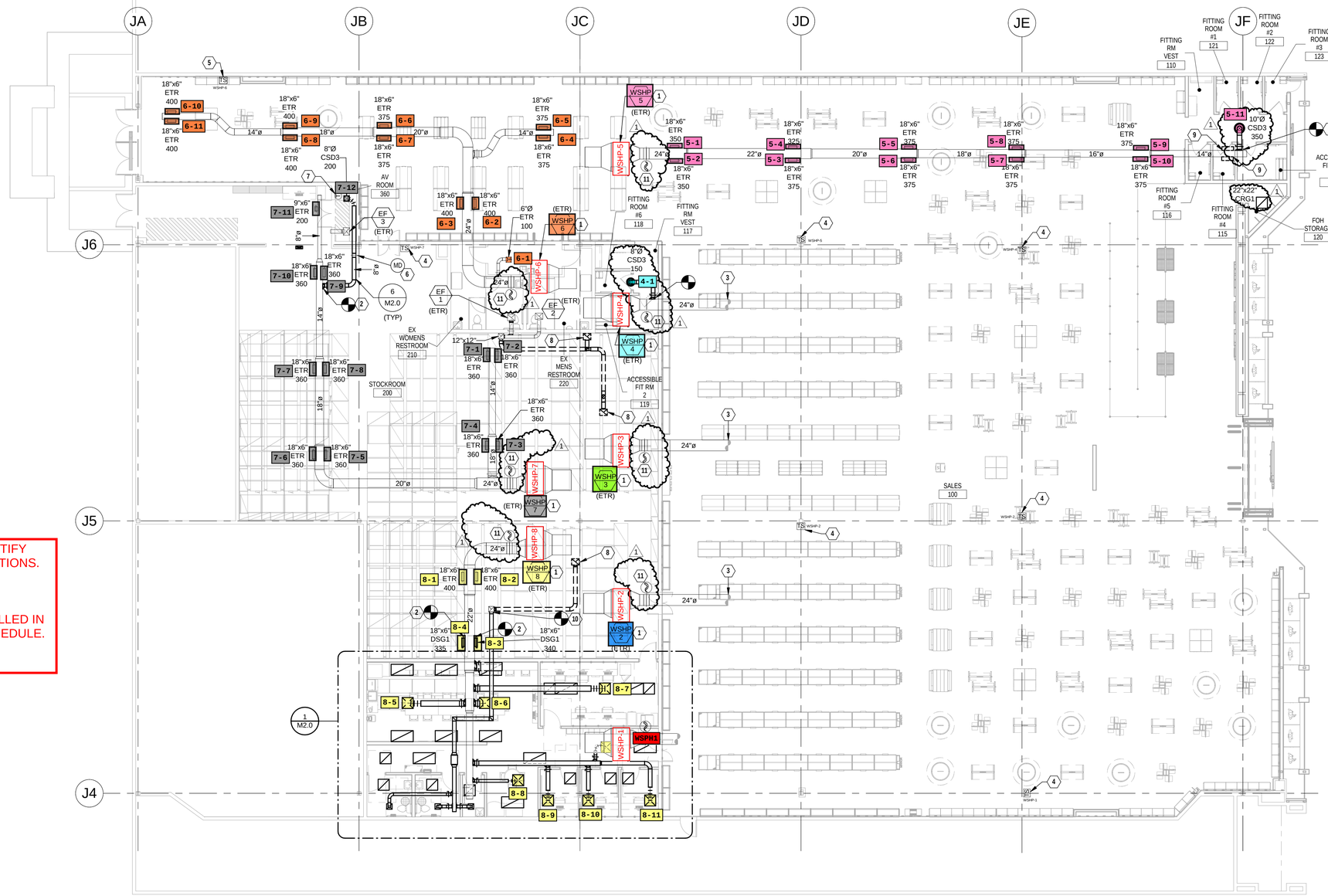
EIGHT CARRIER 10-TON WATER SOURCE HEAT PUMPS INSTALLED IN 2016. REPLACE LIKE FOR LIKE AND UPDATE OA CFM PER SCHEDULE.

RECONNECT EXISTING CONDENSER WATER PIPES TO NEW WSHP. PIPE FITTINGS AND CONTROL VALVES SHALL REMAIN.

SUPPLY DUCTWORK AND RETURN AIR PLENUM ARE EXISTING TO REMAIN. PROVIDE NEW FABRIC DUCTWORK CONNECTIONS.

DISCONNECT SWITCH, CIRCUIT BREAKER, AND BRANCH CIRCUIT WIRING ARE EXISTING TO REMAIN. RECONNECT EXISTING ELECTRICAL CONNECTIONS TO NEW WSHP.

AS POSSIBLE, REUSE EXISTING EQUIPMENT SUPPORTS/HANGERS.



1 MECHANICAL HVAC PLAN
1" = 10'-0"

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B | R | R architecture

Architect of Record:
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NIKE FY25 HVAC REPLACEMENT.

SAWGRASS MILLS SUNRISE, FL

HENDERSON ENGINEERS

ISSUE DATE: 08/30/2024

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Sheet Title:

MECHANICAL PLANS

Sheet Number:

M1.0

EXISTING WATER SOURCE HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING OPERATION			ELECTRICAL		WEIGHT	NOTES
			FLOW (GPM)	EWT (°F)	LWT (°F)	V/PH	MOCP	(LBS)	
WSHP-1	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-2	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-3	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-4	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-5	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-6	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-7	CARRIER	50HQP120	24	85	95	460/3	30	935	A
WSHP-8	CARRIER	50HQP120	24	85	95	460/3	30	935	A

NOTES:

A. SCHEDULE IS PROVIDED FOR REFERENCE ONLY. INFORMATION SHOWN IS BASED ON AS-BUILT DRAWINGS AND/OR SITE OBSERVATIONS. CONTRACTORS SHALL BE RESPONSIBLE TO FIELD VERIFY INFORMATION SHOWN AS IT RELATES TO PROVIDING NEW CURBS OR ADAPTER CURBS, STRUCTURAL REINFORCEMENT, ELECTRICAL SYSTEM MODIFICATIONS, OR OTHER SYSTEMS THAT MAY REQUIRE MODIFICATION DUE TO REPLACEMENT OF THE EXISTING EQUIPMENT.

WATER SOURCE HEAT PUMP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY FAN				COOLING OPERATION								HEAT PUMP HEATING COIL						MIN OA CFM	ELECTRICAL			WEIGHT (LBS)	NOTES
			CFM	ESP (IN)	NOM HP	VFD (Y/N)	TH (MBH)	SH (MBH)	REFR TYPE	MIN EFF (EER)	FLOW (GPM)	MIN NO STAGES	EWT (°F)	LWT (°F)	MAX WPD (FT)	CAP (MBH)	EAT (°F DB)	LAT (°F DB)	EWT (°F)	LWT (°F)	MIN EFF (COP)		V/PH	MCA	MOCP		
WSHP-1	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-2	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-3	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-4	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-5	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-6	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	850	460/3	22.9	30	935	A - Y
WSHP-7	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	550	460/3	22.9	30	935	A - Y
WSHP-8	CARRIER	50QCP120	4,000	1.0	3.0	Y	124.4	97.3	R454B	13.3	24	2	85	95	12.9	172.6	68	107.9	68	56.8	4.9	300	460/3	22.9	30	935	A - Y

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND A

NOTES:

A. WATER SOURCE HEAT PUMP UNIT REPLACEMENT IS "LIKE FOR LIKE" UNLESS NOTED OTHERWISE.
C. PROVIDE 2 INCH MERV 13, EFFICIENT PLEATED, THROW/AWAY AIR FILTERS.
D. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
E. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
G. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE OR 2-SPEED MOTOR TO FACILITATE STAGED FAN SPEED CONTROL.
H. PROVIDE SINGLE POINT POWER CONNECTION. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
I. CONFIRM WITH LANDLORD THAT HEATING MODE IS ACCEPTABLE, LOCK OUT IF NOT ALLOWED.
J. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
L. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
M. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
Q. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT.
R. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
X. PROVIDE UNIT WITH FACTORY INSTALLED CARRIER SYSTEMVU CONTROLLER WITH SUPPLY AND OUTSIDE AIR TEMPERATURE SENSORS. COORDINATE ALL CONTROLS WITH EMS VENDOR PRIOR TO PURCHASE.
Y. PROVIDE WITH DUCT SMOKE DETECTOR WIRE HARNESS KIT FOR EMS INTERFACE FOR SYSTEMVU UNITS. SMOKE DETECTORS ARE EXISTING TO REMAIN AND SHALL SHUT DOWN UNIT UPON ALARM.

OUTSIDE AIR REQUIREMENTS, IMC-2018 (IP)

SYSTEM DESIGNATION	SYSTEM TAB NAME OR LIST 'SINGLE'	SINGLE-ZONE SYSTEMS ONLY		MULTI-ZONE SYSTEMS ONLY	FLOOR AREA SERVED BY SYSTEM [As] (SF)	SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION [Ps] (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/P)	REQUIRED OA INTAKE FLOW [Vot] (CFM)	REQUIRED DCV OA INTAKE FLOW [Vot] (CFM)	DESIGN OA INTAKE FLOW [Vot] (CFM)	NOTES
		SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE	SINGLE ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [Ez]	SYSTEM VENTILATION EFFICIENCY [Ev]								
WSHP 1-6	SINGLE ZONE	SALES FLOOR	0.80	-	17,228	0.120	258.42	7.50	5,007	N/A	5,100	
WSHP-7	SINGLE ZONE	STOCKROOM	0.80	-	3,586	0.120	0	0.00	595	N/A	560	
WSHP-8	MULTIZONE (WSHP-8)	-	-	1.00	2,826	0.094	6.69	5.00	271	N/A	300	
								TOTALS	5,813	0	5,960	

GENERAL NOTES:

1. VENTILATION CALCULATIONS BASED ON IMC-2018.
2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.
3. SINGLE ZONE SYSTEMS (Vot = Voz): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE.
4. 100% OA SYSTEMS (Vot = $\sum_{all\ zones}$ Voz): WHEN ONE AIR HANDLER SUPPLIES ONLY OUTDOOR AIR TO ONE OR MORE ZONES. EACH ZONE IS INDIVIDUALLY CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING).
5. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH IMC-2018 VRP AND ASHRAE 62.1-2016 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND Ev.

NIKE FY25 HVAC REPLACEMENT

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2450003587

MECHANICAL SCHEDULES

DATE: 08/30/2024

SCALE: NO SCALE

M

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