

HVAC PLAN KEYNOTES:

- (H1) EXISTING AIR DEVICES IN THIS AREA TO BE REPLACED AS SCHEDULED. PROVIDE CONNECTION OF EXISTING DUCTWORK TO NEW RTU-2. INSPECT, CLEAN, AND REPAIR AS REQUIRED. FIELD VERIFY POINTS OF CONNECTION PRIOR TO BEGINNING WORK.
- (H2) 48X12 TRANSFER MOUNTED AT 8'-10" AFF.
- (H3) 4"Ø OUTSIDE AIR DUCT UP THROUGH ROOF. TERMINATE 1'-6" ABOVE ROOF WITH GOOSENECK. PROVIDE BACKDRAFT DAMPER IN RISER. INSTALL INLINE VENTILATION FAN IN RISER. SEE DUCTLESS SPLIT FAN COIL SCHEDULE FOR DETAILS.
- (H4) CEILING MOUNTED CASSETTE DUCTLESS SPLIT FAN COIL UNIT. SUSPEND FROM ROOF STRUCTURE WITH THREADED ROD.
- (H5) 3/8"RS & 1/4"TL INSULATED REFRIGERANT LINE KIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. (TYP.2)
- (H6) SUSPEND AIR COOLED HEAT PUMP BETWEEN ROOF JOISTS WITH THREADED ROD AND UNISTRUT.
- (H7) DESTRAIT FANS MUST BE MOUNTED AT LEAST 4' AWAY FROM THE FRONT OF THE MDU. IF THE FAN FALLS DIRECTLY ABOVE A LIGHT FIXTURE, MOUNT THE FAN ON THE OPPOSITE SIDE OF THE LIGHT FIXTURE RELATIVE TO THE MDU. DESTRAIT FANS CANNOT BE MOUNTED DIRECTLY ABOVE ANY LIGHTING FIXTURES. THE OPTIMAL POSITION IS CENTERED ABOVE THE AISLE. DESTRAIT FANS SHOULD NEVER BE PLACED IN A LOCATION THAT WILL BLOW AIR ON PRODUCE PRODUCTS. THEY SHOULD BE PLACED WITH THE TOP OF THE FAN 12"-24" FROM THE ROOF DECK. THE BOTTOM OF THE FAN SHOULD NOT HANG BELOW THE BOTTOM OF THE BEAMS. MAKE/MODEL: AIR-ROW F-18.
- (H8) EXISTING RTU TO BE REPLACED WITH NEW IN THE EXISTING LOCATION. CONNECT TO EXISTING SUPPLY AND RETURNS. TRANSITION EXISTING DUCTWORK AS REQUIRED TO CONNECT TO NEW RTU DUCT DROPS. FIELD VERIFY EXACT REQUIREMENTS. REFER TO SCHEDULE ON SHEET H-201 FOR ADDITIONAL INFORMATION.
- (H9) MOUNT TEMPERATURE SENSOR/DIGITAL ZONE CONTROLLER ON WALL AT 5'-0" AFF.
- (H10) TEMPERATURE & HUMIDITY SENSORS MOUNTED ON WALL AT 5'-2" AFF TO THE BOTTOM OF EACH SENSOR. SENSORS, WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- (H11) RUN 10"Ø DUCT BETWEEN AND THROUGH ROOF JOISTS AND JOIST GIRDER. PROVIDE OFFSETS AS REQUIRED AND MOUNT AS TIGHT TO THE ROOF DECK AS POSSIBLE.
- (H12) EXISTING AIR DEVICES IN THIS AREA TO BE DEMOLISHED. REMOVE ASSOCIATED DUCTWORK BACK TO MAIN AND CAP.
- (H13) DISCHARGE AIR TEMPERATURE SENSOR. SENSORS, WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- (H14) DUCT MOUNTED SMOKE DETECTOR.
- (H15) 40X40 LINED SUPPLY UP TO RTU-1. TRANSITION TO RTU SUPPLY CONNECTION.
- (H16) 50X20 LINED RETURN UP TO RTU-1. TRANSITION TO RTU RETURN CONNECTION.
- (H17) CONNECT 10"Ø SUPPLY TO 40X40 SUPPLY AIR RISER.
- (H18) MOUNT 6-WAY SUPPLY DIFFUSER TIGHT TO BOTTOM OF ROOF JOIST. SUPPORT FROM ROOF STRUCTURE WITH THREADED ROD. ADJUST THE THROW FOR EACH LOUVER TO BE 15" DOWNWARD FROM THE HORIZONTAL POSITION.
- (H19) EXISTING UNIT HEATER TO REMAIN. CLEAN, TEST AND INSPECT TO ENSURE PROPER OPERATION.
- (H20) 14X14 EXHAUST FAN UP TO EF-2 LOCATED ON ROOF AND EXTENDED 1'-8" INTO SPACE. PROVIDE 18X18 WELDED DRAIN PAN BELOW DUCT OPENING.
- (H21) EXISTING AIR DEVICES AND ASSOCIATED DUCTWORK IN THIS AREA TO REMAIN UNLESS OTHERWISE NOTED.
- (H22) EXISTING EXHAUST FAN TO BE REPLACED AS SCHEDULED. CONNECT TO EXISTING DUCTWORK.

GENERAL HVAC NOTES:

1. COORDINATE DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN INCLUDING LIGHTS AND SPRINKLER HEAD LAYOUTS.
2. PROVIDE DUCT MOUNTED SMOKE DETECTORS IN RETURN AIR DUCTS AS INDICATED ON THE FLOOR PLAN. DUCT DETECTORS SHALL BE PROVIDED AND INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. DETECTORS SHALL BE COMPATIBLE WITH THE BUILDING FIRE ALARM SYSTEM AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
3. COORDINATE 6-WAY SUPPLY DIFFUSER MOUNTING HEIGHT AND LOCATION WITH STRUCTURAL STEEL AND LIGHTS. MOUNT SUPPLY DIFFUSER AS HIGH AS POSSIBLE.
4. TEMPERATURE AND HUMIDITY SENSORS ARE SHOWN FOR REFERENCE ONLY. CONNECT NEW TEMPERATURE AND HUMIDITY SENSORS TO EXISTING ENERGY MANAGEMENT SYSTEM.
5. ALL DUCT DIMENSIONS REPRESENT FREE AREA.
6. ALL MITERED ELBOWS & FITTINGS TO BE PROVIDED WITH TURNING VANES.
7. ALL ROUND DUCTWORK SHALL BE SPIRAL ONLY.
8. PROVIDE VOLUME DAMPERS AT ALL RETURN REGISTER TAKEOFFS.
9. MAXIMUM FLEX DUCT LENGTH SHALL BE 4FT. FLEX DUCT ALLOWED ONLY ON CONCEALED DUCTWORK INSTALLED ABOVE A CEILING.
10. FIELD VERIFY ALL NEW EQUIPMENT AND SCOPE OF WORK PRIOR TO BIDDING. NOTIFY OWNER IN WRITING 48 HOURS PRIOR TO BID DATE OF ANY QUESTIONS ON SCOPE OF WORK OR CONTRACT DOCUMENTS.
11. PROVIDE 1 1/2" PVC CONDENSATE DRAIN & P-TRAP FOR ALL ROOFTOP UNITS.
12. PROVIDE ACOUSTICAL INSULATION INSIDE ROOFTOP UNIT CURB FOR SOUND ATTENUATION. (TYPICAL)
13. INSULATE ALL DUCTWORK CONCEALED ABOVE A CEILING AND EXPOSED IN THE BACK ROOM. SEE SPECIFICATION SECTION 230700 - HVAC INSULATION FOR DETAILS.
14. TEMPERATURE AND HUMIDITY SENSORS ARE SHOWN FOR REFERENCE ONLY. AN ENERGY MANAGEMENT SYSTEM IS BEING PROVIDED BY SIEMENS. UNDER A SEPARATE CONTRACT BY THE OWNER, THE EMS SHALL BE INSTALLED BY THE REFRIGERATION CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE ALDI PROJECT MANAGER, SIEMENS PROJECT MANAGER (PH: 512-803-3169) AND REFRIGERATION CONTRACTOR. REFER TO THE SIEMENS EMS DRAWINGS LOCATED ON THE SHAREPOINT.COM WEBSITE IN THE VENDOR INFORMATION FOLDER.

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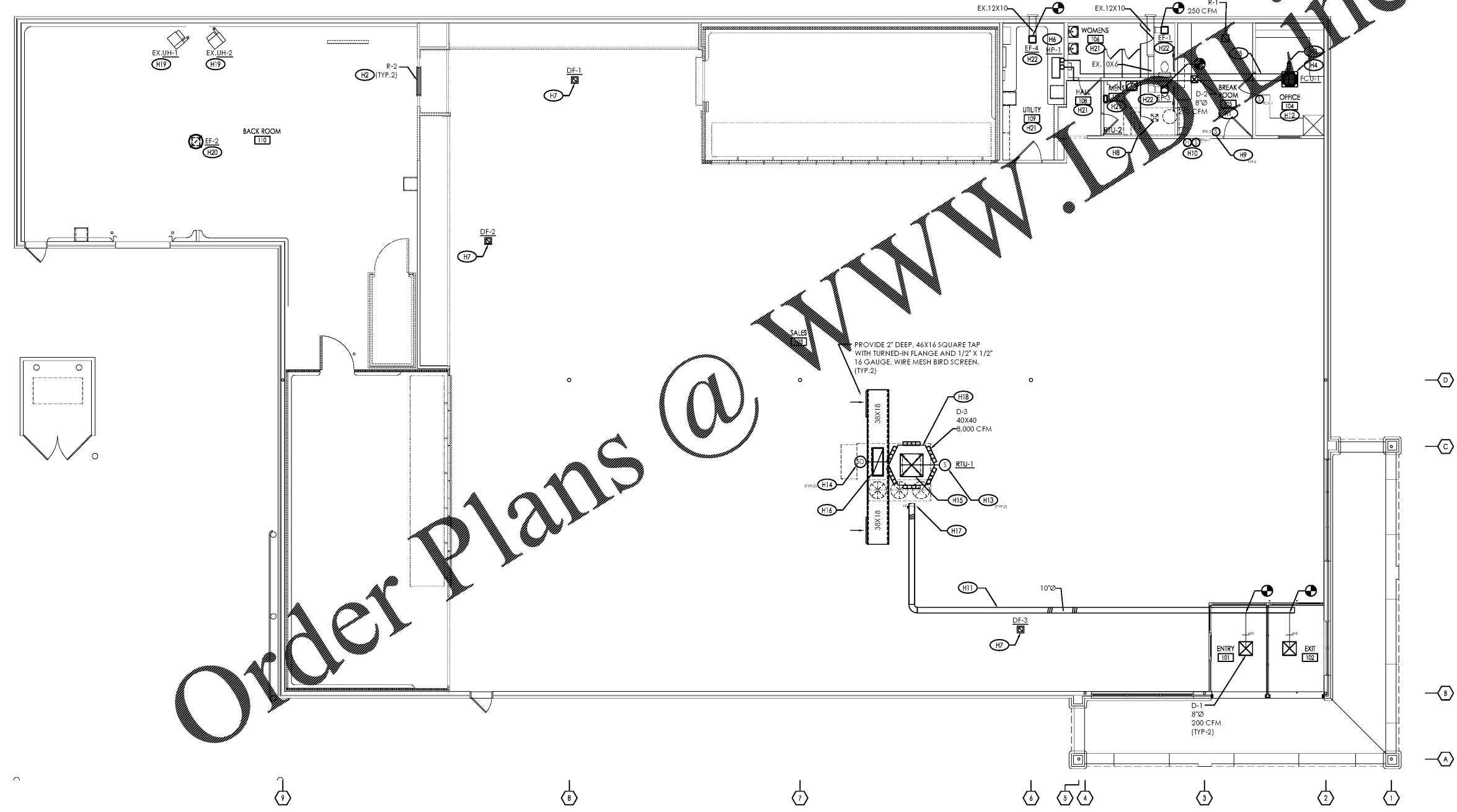
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HVAC Construction Plan	
Drawing Name:	
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	H-101
Scale: As Noted	Drawing No.



1 HVAC Construction Plan
 SCALE: 1/8" = 1'-0"
 PLAN NORTH