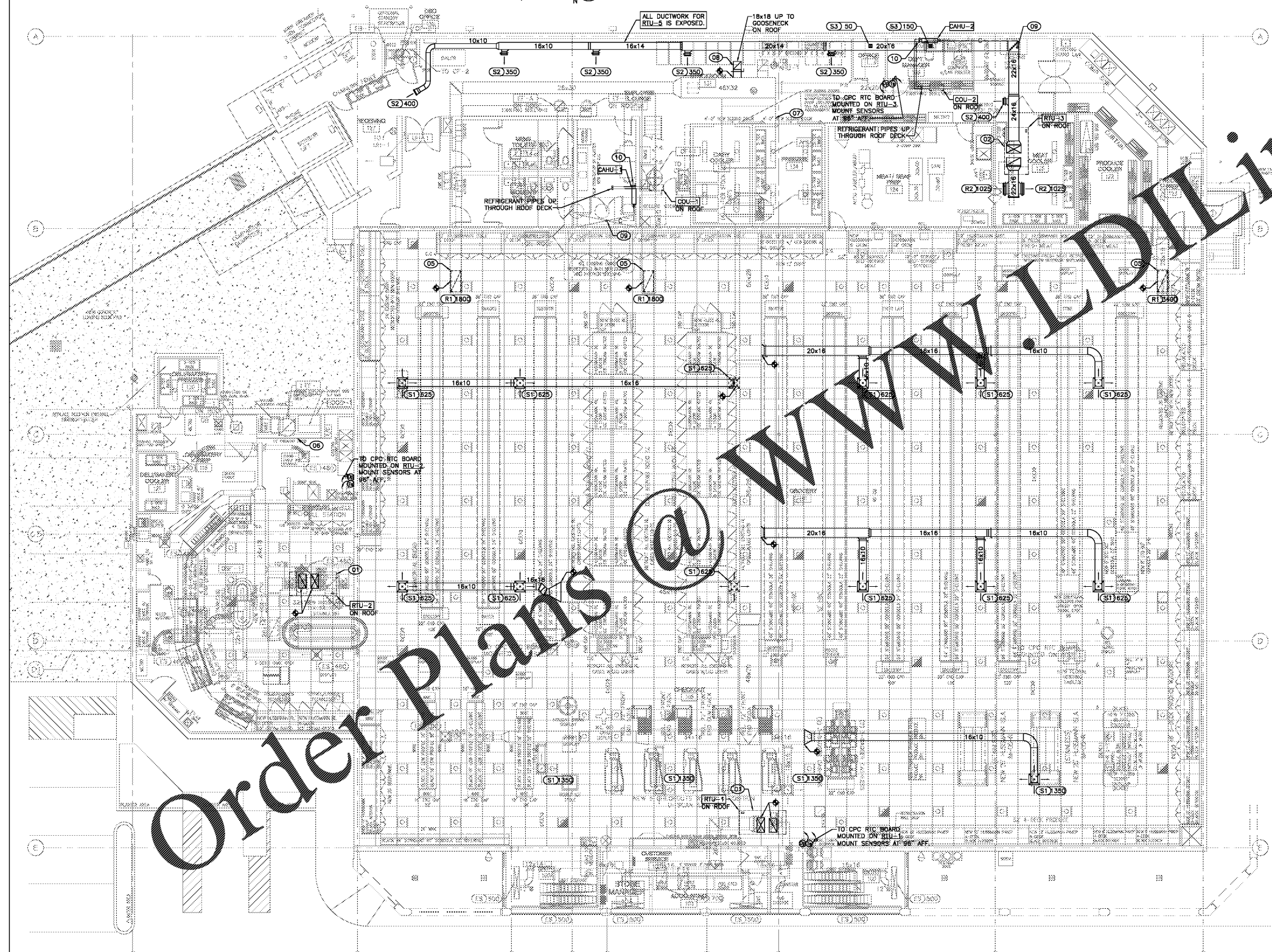
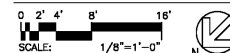
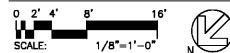


**HVAC RENOVATION MEZZANINE PLAN**



**HVAC RENOVATION FLOOR PLAN**



**GENERAL NOTES**

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC AND HURRICANE REQUIREMENTS FOR THIS LOCATION.
- B. DO NOT SCALE FROM THESE DRAWINGS.
- C. FIELD VERIFY AND COORDINATE THE INSTALLATION OF ALL HVAC EQUIPMENT AND MATERIAL WITH OTHER MECHANICAL, BUILDING STRUCTURE, REFRIGERANT LINES, SPRINKLER PIPING, ELECTRICAL, CONDUIT/LIGHTS AND DECOR ELEMENTS.
- D. THE FINISH AND COLOR OF THE AIR DEVICES, AND ALL OTHER EXPOSED HVAC EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT.
- E. COORDINATE AIR DEVICE LOCATIONS WITH THE REFLECTED CEILING PLAN AND ALL OTHER MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL, STRUCTURE AND OTHER INTERIOR DECOR FEATURES.
- F. DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER.
- G. DURING CONSTRUCTION, PROVIDE TEMPORARY FILTER MEDIA OVER ALL RETURN GRILLES TO KEEP OUT DUST AND DEBRIS.
- H. ALL DUCT SIZES SHOWN ARE FREE INSIDE DIMENSIONS. ALLOWANCE SHALL BE MADE FOR SPECIFIED INSULATION OR DUCT LINER THICKNESS.
- I. PROVIDE ELBOWS OR TEES WITH TURNING VANES FOR ALL CHANGE IN DUCT DIRECTION.
- J. PROVIDE MANUAL BALANCING DAMPERS AS REQUIRED AND SHALL BE MANUALLY BALANCE EACH INDIVIDUAL AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF BALANCING DAMPER IS NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUM STANDARDS SHALL GOVERN: SUPPLY, RETURN, AND EXHAUST MAIN BRANCHES FROM TRUNKS, EACH SPINE AND ALL SUB-BRANCHES FROM MAINS SHALL INCORPORATE BALANCING DAMPERS.
- K. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA, AND SMACNA GUIDELINE RECOMMENDATIONS. ALL DUCTS TO INCORPORATE "DUCT-MATE" JOINT SYSTEM. REFER TO THE PROJECT SPECIFICATIONS FOR COMPLETE AND DETAILED DUCT, FITTING, JOINT CONNECTIONS, INSULATION AND FINISH REQUIREMENTS.
  - 1) ALL EXPOSED SUPPLY AND RETURN DUCTS AND RIGID OVAL SPIRAL DUCTWORK AND FITTINGS AS INDICATED ON DRAWINGS SHALL BE SINGLE WALL WITH INTERNAL DUCT LINER.
  - 2) ALL EXPOSED RETURN RECTANGULAR DUCTWORK AND FITTINGS EXPOSED AND CONCEALED SHALL BE SINGLE WALL WITH INTERNAL DUCT LINER.
- L. TEST AND BALANCE AND COMMISSIONING OF HVAC SYSTEMS SHALL BE PROVIDED BY OWNER. THE HVAC CONTRACTOR SHALL PROVIDE THE SERVICES OF AN ON SITE MECHANIC TO ASSIST THE TEST AND BALANCE CONTRACTOR AND COMMISSIONING AGENT AS REQUIRED TO MAKE CHANGES IN PULLEYS, FITTINGS, DAMPERS OR PROVIDE ADDITIONAL DAMPERS AS REQUIRED FOR CORRECT BALANCE OF THE SYSTEMS AT NO ADDITIONAL COST TO THE OWNER. REPLACE ALL DIRTY FILTERS PRIOR TO STARTING TEST AND BALANCE.
- M. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO VIBRATING EQUIPMENT. THESE CONNECTIONS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SUCH EQUIPMENT.
- N. FLEXIBLE DUCT DIAMETER SHALL MATCH THE NECK SIZE OF THE DIFFUSER TO WHICH IT CONNECTS, UNLESS NOTED OTHERWISE. TOTAL LENGTH OF FLEXIBLE DUCT RUN SHALL NOT EXCEED 5'-0". EXTEND SHEET METAL DUCT WITHIN 5'-0" OF THE AIR DEVICE FOR COMPLIANCE. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE IN ANY PARTS OF THE RETURN OR EXHAUST AIR SYSTEMS. FLEXIBLE DUCTWORK SHALL NOT PASS THROUGH FIRE RATED CONSTRUCTION.
- O. FLEXIBLE DUCTWORK MUST BE INSTALLED WITH SUPERIOR WORKMANSHIP MAINTAINING FULL CROSS SECTIONAL AREA THROUGHOUT. SUPPORT FROM STRUCTURE AT 24" INTERVALS TO ENSURE FULL CROSS SECTIONAL AREA FOR MAXIMUM AIR FLOW.
- P. ALL ACCESS DOORS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOORS FOR THE PROPER ACCESS TO ALL CONCEALED HVAC EQUIPMENT. VALVES AND OTHER RELATED EQUIPMENT. THE HVAC CONTRACTOR SHALL IDENTIFY THESE REQUIREMENTS ON A COORDINATED SHOP DRAWING PRIOR TO SYSTEM FABRICATION AND INSTALLATION.
- Q. ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
- R. CLEAN AND SEAL ALL EXPOSED DUCT.
- S. CLEAN ALL SUPPLY AIR DEVICES IN SALES AREA.
- T. RE-BALANCE RTU-1, 2 & 3 AIR QUANTITIES AS INDICATED ON THE RENOVATION PLAN AND AIR BALANCE SCHEDULE.

**RESPONSIBILITY NOTES:**

DESCRIPTION	HARRIS TEETER	HVAC CONTRACTOR	REFRIGERATION CONTRACTOR
PURCHASE AND DELIVERY OF EXHAUST HOOD, HOOD FIRE SUPPRESSION SYSTEM, KITCHEN HOOD EXHAUST FANS, PACKAGED HVAC ROOF TOP UNITS AND ALL ASSOCIATED ACCESSORIES INCLUDING ROOF CURBS	X		
TERMINATION OF DUCT SMOKE DETECTOR HVAC CONTROL WIRING WITH THE EXISTING ROOF STRUCTURE.		X	
PURCHASE AND DELIVERY OF ALL HVAC EQUIPMENT AND ASSOCIATED ACCESSORIES REQUIRED BY THE PLANS AND SPECIFICATIONS NOT PURCHASED BY HARRIS TEETER (NOTE 1).		X	
PURCHASE AND DELIVERY OF CPC CONTROLS (NOTES 1 & 2).	X		
INSTALLATION OF OWNER FURNISHED EQUIPMENT.		X	
REFRIGERANT HEAT RECLAIM PIPING TO HVAC UNITS.			X
ONE (1) YEAR LABOR WARRANTY FOR ALL OWNER FURNISHED HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO ROOF TOP UNITS, FANS, HOODS, ETC.		X	
UNLOADING, RIGGING, INSTALLATION AND COMMISSIONING OF ALL HVAC EQUIPMENT AND ACCESSORIES.		X	
ALL OTHER HVAC RELATED WORK AND MATERIALS		X	

- NOTES:  
 1. REFRIGERATION EQUIPMENT MANUFACTURER SHALL FURNISH ALL CPC HVAC CONTROLS.  
 2. REFER TO ENERGY MANAGEMENT DRAWINGS FOR HVAC EMS RESPONSIBILITIES.

**KEYED NOTES**

- (01) PROVIDE NEW RTU ON EXISTING CURB. FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE CURB ADAPTER SIZED AS REQUIRED TO ALLOW NEW UNIT TO FIT ON EXISTING CURB AND CONNECT TO EXISTING SUPPLY AND RETURN DUCT.
- (02) PROVIDE NEW RTU ON NEW CURB. COORDINATE EXACT RTU CURB/DUCT PENETRATION LOCATIONS WITH THE EXISTING ROOF STRUCTURE.
- (03) PROVIDE NEW FAN ON EXISTING CURB. FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE CURB ADAPTER SIZED AS REQUIRED TO ALLOW NEW FAN TO FIT ON EXISTING CURB.
- (04) CAP EXISTING ABANDONED ROOF CURB WITH GALVANIZED SHEET METAL CURB CAP. SEE ARCHITECTURAL PLANS FOR CAP DETAILS.
- (05) REPLACE EXISTING SALES AREA RETURN AIR GRILLES. FIELD VERIFY EXISTING GRILLE SIZES AND TYPES PRIOR TO REMOVAL OF EXISTING GRILLES AND PRIOR TO ORDERING NEW GRILLES.
- (06) EXISTING HOOD TO REMAIN. CAP EXISTING HOOD MAKEUP AIR CONNECTIONS AND REBALANCE EXISTING EXHAUST FAN TO AIR QUANTITY AS INDICATED ON THE AIR BALANCE SCHEDULE.
- (07) EXISTING AIR HANDLING UNIT TO REMAIN. REBALANCE AS INDICATED ON RENOVATION PLAN AND AIR BALANCE SCHEDULE.
- (08) PROVIDE NEW OUTSIDE AIR INTAKE DUCT UP TO NEW GOOSENECK INTAKE ON THE ROOF. SEE DETAIL FOR GOOSENECK.
- (09) 1" CONDENSATE DRAIN DISCHARGE AT HUB DRAIN. SEE PLUMBING DWG'S FOR HUB DRAIN LOCATION COORDINATE PIPE ROUTING WITH REFRIGERANT PIPING.
- (10) TURN REFRIGERATION PIPES UP TO UNDERSIDE OF ROOF DECK. ROUTE PIPING TIGHT TO UNDERSIDE OF DECK. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

**AREA OF WORK PLAN**

REFERENCE SHEET C1.2 - AREA OF WORK PLAN FOR DELINEATION OF INDIVIDUAL WORK AREAS WITHIN THE PROJECT.

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 HVAC DEMOLITION FLOOR PLAN

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9/10/19