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GENERAL NOTES

- ## KEY NOTES

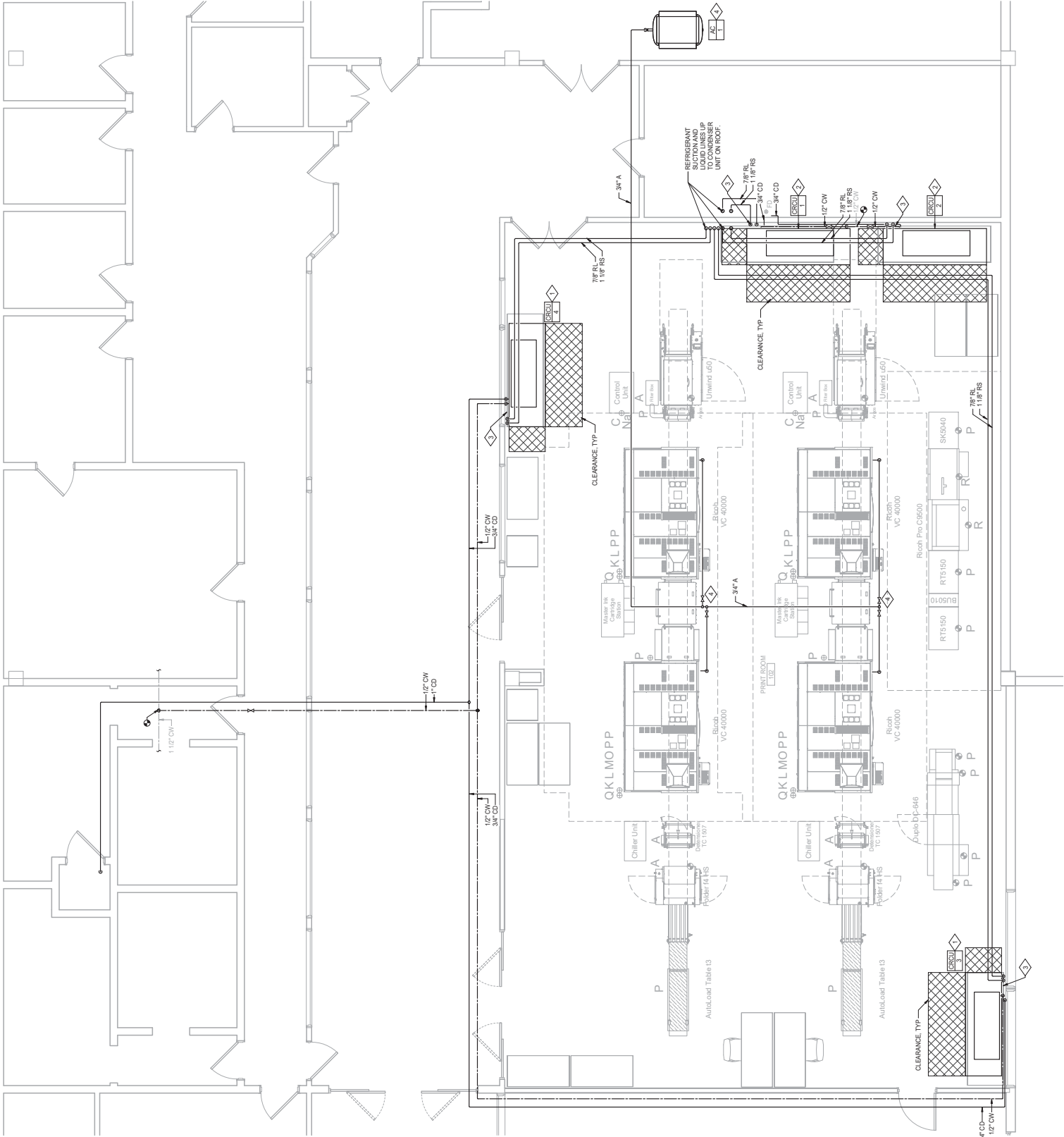
1. PROVIDE 150VA PDU, PROVIDE BRANCH CIRCUIT TO NEW PRINTING EQUIPMENT.
2. PROVIDE NEW CR21 UNIT TO BE FED FROM MDP-2 LOCATED IN THE MEZZANINE 131. PROVIDE 14"VC, 3"VC & 1"RGND.
3. PROVIDE 30VA UPS, PROVIDE (2) 40AMP FEEDERS TO UPS FROM MDP-2.
4. PROVIDE 40AMP BREAKER AND FEEDER TO EACH PDU.
5. EXISTING LIGHTING AND CONTROLS IN PRINT ROOM SHALL BE RE-CIRCUIT TO CONTROL EXPANDED AREA.
6. PROVIDE 280V/1P/15A CIRCUIT, NEBA 16-5R CORD DROP RECEPTACLE.
7. CONTROL UNIT PROVIDE 280V/2P/15A CIRCUIT, HARD WIRED.
8. DRIVER PROVIDE 280V/3P/15AMP CIRCUIT, 4#4, GND, HARD WIRED.
9. ELECTRONIC PROVIDE 280V/1P/50AMP CIRCUIT, 4#8 + GND CONDUCTORS.
10. CHILLER UNIT PROVIDE 280V/3P/30A, 4#10 + GND CONDUCTORS HARD WIRED.
11. PROVIDE DATA CONNECTION.
12. MASTER N/C CARTRIDGE STATION PROVIDE 280V/1P/20A CIRCUIT, 3#12 + GND, HARD WIRED.
13. PROVIDE 280V/1P/20AMP CIRCUIT, NEBA 5-30R DROP DOWN CORD.
14. EXISTING UPS.

OPTION G ALTERNATE COMPUTER ROOM COOLING UNIT SCHEDULE																					
LOCATION			AMBIENT			COOLING COIL DATA			HUMIDIFIER			SUPPLY FAN			ELECTRICAL INFORMATION						
TAG	MANUFACTURER	MODEL NUMBER	ROOM NAME	ROOM NUMBER	DB, °F	WB, °F	MBHS	MBHT	REF. TYPE	TYPE	#	CFM	SP, WC	V	PH	HZ	FLA	WSA	MOCP	NOTES	
CRCL1	LEBERT	DA900U	PRINT ROOM	102	75	81	250.0	249.0	R410a	INFRARED	11	9600	0.55	480	0	480	0	60	0.0	0	
CRCL2	LEBERT	DA900U	PRINT ROOM	102	75	81	250.0	249.0	R410a	INFRARED	11	9600	0.55	480	0	480	0	60	0.0	0	
CRCL3	LEBERT	DA900U	PRINT ROOM	102	75	81	250.0	249.0	R410a	INFRARED	11	9600	0.55	480	0	480	0	60	0.0	0	
CRCL4	LEBERT	DA900U	PRINT ROOM	102	75	81	250.0	249.0	R410a	INFRARED	11	9600	0.55	480	0	480	0	60	0.0	0	

NOTES:
1. PROVIDE UPFLOW CIRCUIT WITH INFRARED HUMIDIFIER WITH HUMIDIFIER LOCKOUT, ELECTRIC REHEAT, AND ELECTRICAL DISCONNECT.

OPTION G ALTERNATE CONDENSING UNIT SCHEDULE												
								ELECTRICAL INFORMATION				
TAG	MANUFACTURER	MODEL NUMBER	AREA SERVED	AMBIENT DB, °F	FAN CFM	V	PH	HZ	SOURCE POWER FLA	TOTAL EQUIPMENT LOAD WSA	MOCP	
CU1	LEBERT	MCH160		480	0	480	0	60	0.0	0.0	0	
CU2	LEBERT	MCH160		480	0	480	0	60	0.0	0.0	0	
CU3	LEBERT	MCH160		480	0	480	0	60	0.0	0.0	0	
CU4	LEBERT	MCH160		480	0	480	0	60	0.0	0.0	0	

NOTES:
1. PROVIDE WITH RECEIVER AND ELECTRICAL DISCONNECT.



1 MECHANICAL FLOOR PLAN - TWO PRINTER ALTERNATE LOCATION
1/4" = 1'-0"

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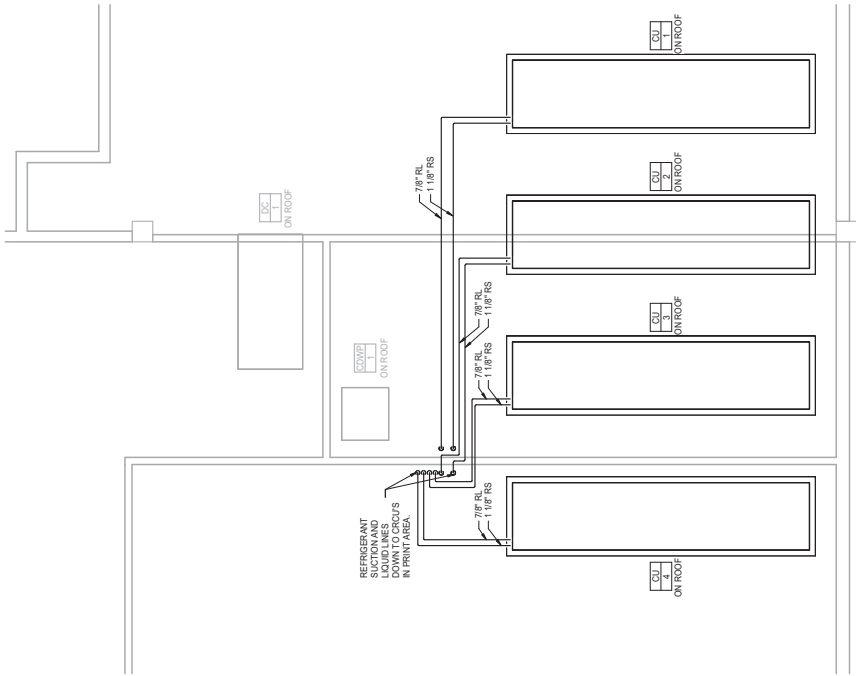
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MECHANICAL GENERAL NOTES

- A. ALL CUTTING AND PATCHING RELATED TO NEW MECHANICAL WORK SHALL BE BY MECHANICAL CONTRACTOR. PATCH TO MATCH ADJACENT SURFACES. FINISH PAINTING BY GENERAL CONTRACTOR.
- B. MECHANICAL CONTRACTOR SHALL CORE DRILL FLOOR/WALL 1/2" MAXIMUM LARGER THAN REQUIRED. PATCH AND FINISH TO MATCH ADJACENT SURFACES. FINISH PAINTING AS APPROVED.
- C. SEAL ALL DUCT PIPE PENETRATIONS THROUGH WALL AND CEILINGS AS SPECIFIED AND/OR DETAILED ON THE DRAWINGS.
- D. COORDINATE WITH STRUCTURAL DRAWINGS AND ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE ALL NECESSARY DUCTPIPE OFFSETS AS REQUIRED TO ACCOMMODATE NEW DUCTWORK PIPING TO BE LOCATED ABOVE NEW CEILINGS.
- E. MECHANICAL CONTRACTOR SHALL FIELD MEASURE FOR ALL DUCTWORK BEFORE ANY MECHANICAL WORK BEGINS. MECHANICAL CONTRACTOR SHALL PROVIDE MECHANICAL WORK TO BE ACCEPTED FOR ADDITIONAL DROPS, TRANSITIONS, RISERS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
- F. THE GENERAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS IN ACCESSIBLE AREAS FOR ACCESS TO MECHANICAL EQUIPMENT DAMPERS, VALVES, CONTROLS, ETC. COORDINATE THE LOCATIONS WITH THE GENERAL CONTRACTOR AND ARCHITECT.
- G. KEEP THE PRINTER SPACE OPERATIONAL AS LONG AS POSSIBLE. PLAN TO HAVE THE MECHANICAL SHUTDOWN TIME IN THE PRINT ROOM FOR AS SHORT AS POSSIBLE.

KEY NOTES

- 1. PROVIDE NEW CIRCUIT ROUTE 3/4" INCH CONDENSATE TO THE JANITOR SINK AND TERMINATE WITH CODE REQUIRED AIR GAP. CONNECT 1/2" INCH DOMESTIC COLD WATER TO EXISTING 1 1/2" INCH PIPE NEAR THE RESTROOMS IN THE CEILING. PROVIDE 3 FEET CLEARANCE IN FRONT OF THE CIRCUIT FOR SERVICE. PROVIDE CONDENSATE PUMP WITH HIGH LIFT (AT LEAST 16').
- 2. PROVIDE NEW CIRCUIT ROUTE 3/4" INCH CONDENSATE TO THE FLOOR DRAIN AND TERMINATE WITH CODE REQUIRED AIR GAP. PROVIDE 3 FEET CLEARANCE IN FRONT OF THE CIRCUIT FOR SERVICE. PROVIDE CONDENSATE PUMP WITH HIGH LIFT (AT LEAST 16').
- 3. PROVIDE A RAIN UNDER ANY REFRIGERANT. DOMESTIC COLD WATER AND CONDENSATE PIPING LOCATED IN THE PRINT ROOM.
- 4. PROVIDE 10 SCWM AIR COMPRESSOR AND ROUTE 1/4" INCH COPPER PIPE TO EACH PRINTER.



2 MECHANICAL ROOF PLAN - TWO PRINTER ALTERNATE LOCATION
1/4" = 1'-0"



NORTH

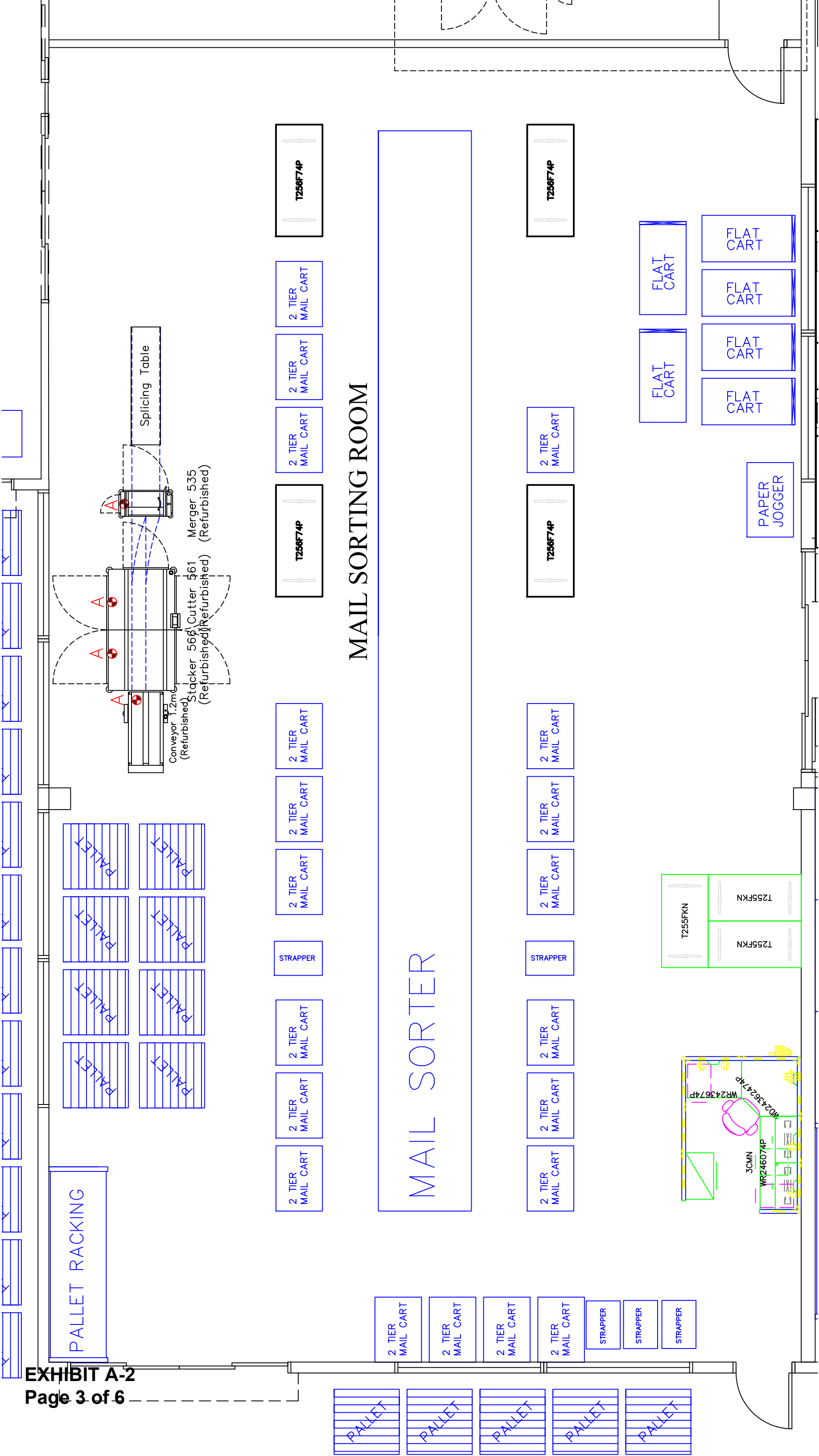


Exhibit A2
Sorting Equipment Electrical, Mechanical

1 Vantage Operational Specifications



State of Minnesota IOC is responsible for meeting all operational requirements.



1.1.1 Electrical Requirements

Electrical Requirements	
Maximum Configuration	208V, 3-Phase, WYE, 60 Hz, 80 amps, 26,300 BTUs
BTU value assume 82% efficiency and 0.95 PF.	

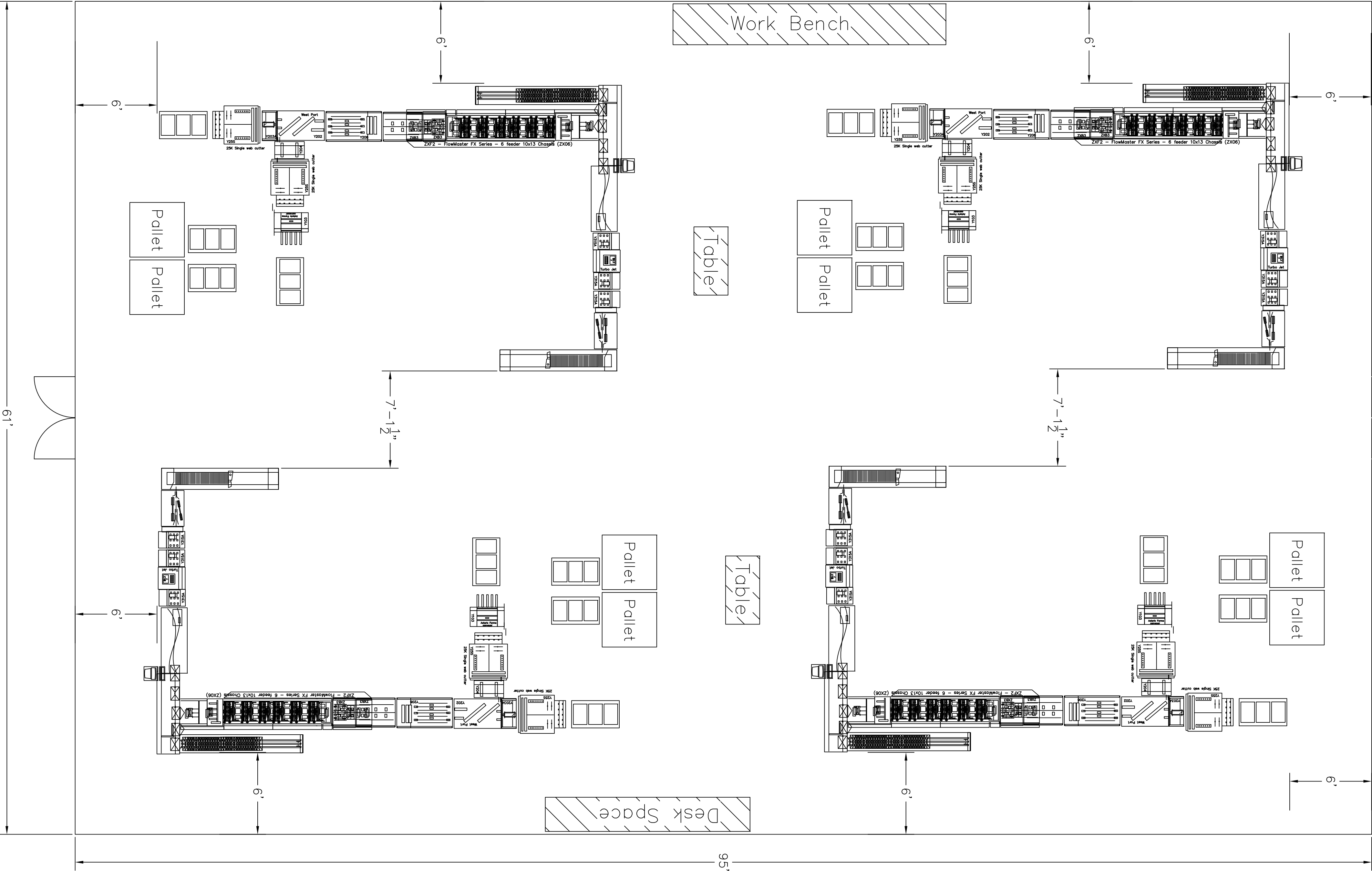
1.1.2 Air Requirements

Air Requirements	
Air Consumption	4CFM @ 90PSI for maximum machine configuration
Air Supply	90 PSI Clean/Dry Air, Min 1/2" ID supply tubing. Machine side tubing is 12mm OD
Air Compressor	Internal air compressor supplied meets air supply and air quality requirements

1.1.3 Environmental

Environmental Specifications			
Operational Environment		Storage Environment	
Minimum Temperature	10 Deg. C	Minimum Temperature	5 Deg. C
Standard Max Temperature	35 Deg. C	Std. Max Temperature	35 Deg, C
Extreme Environment Option Max Temp	N/A		
Minimum Humidity	30% RH	Minimum Humidity	10% RH
Maximum Humidity	90% RH	Maximum Humidity	95% RH Non Condensing

Exhibit A2
Insertion Room Equipment Electrical, Mechanical



Insertion Equipment
Electrical, Mechanical
Specifications

EXHIBIT A-2
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