

MECHANICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE MECHANICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS.)
- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED.
 - MEDIUM PRESSURE SUPPLY AIR (UPSTREAM OF VAV TERMINAL UNITS): +6.0 IN.WG.
 - LOW PRESSURE SUPPLY AIR (DOWNSTREAM OF VAV TERMINAL UNITS): +2.0 IN.WG.
 - RETURN AIR: -1.0 IN.WG.
 - EXHAUST AIR (UPSTEAM OF FAN): -2.0 IN.WG.
 - EXHAUST AIR (DOWNSTREAM OF FAN): +1.0 IN.WG.
- PROVIDE DUCT WRAP INSULATION FOR ALL ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK. DUCT WRAP INSULATION SHALL BE 2" THICK, MINIMUM R-5.0 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
- CONTRACTOR OPTION: PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR SUPPLY AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT³ ACOUSTICAL DUCT LINER INSULATION WITH MINIMUM R-5.0.
- PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR RETURN AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT³ ACOUSTICAL DUCT LINER INSULATION.
- DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-5.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'-0" IN LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS.
- PROVIDE BALANCING DAMPERS IN DUCT TAKE-OFFS TO AIR DEVICES IN LAY-IN CEILINGS, IN THE NECKS OF AIR DEVICES IN GYP BOARD CEILINGS, AND IN THE NECKS OF SIDE WALL AIR DEVICES FOR PROPER AIR BALANCING.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH FIXTURE.
- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY CONFLICTS.
- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.
- ALL DIMENSIONS SHOWN IN PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS OF ALL EQUIPMENT, VALVES, DAMPERS, AND DEVICES.
- MECHANICAL CONTRACTOR SHALL INSPECT ALL MECHANICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.

ROOF TOP UNIT SCHEDULE							
TAG	NOMINAL TONS	CFM	OA CFM	ESP (IN)	V/PH/Hz	KW	MANU. / MODEL
RTU-4A	6	2400	570	0.5	208/3/60	6.4	CARRIER / 48FCDM07
RTU-4B	6	2400	600	0.5	208/3/60	6.4	CARRIER / 48FCDM07

- NOTES:**
- BALANCE AIRFLOWS AS INDICATED ON PLAN.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH.
 - PROVIDE HINGED ACCESS DOORS AND ROOF CURB.

EXHAUST FAN SCHEDULE							
TAG	MOUNTING	CFM	ESP (IN)	V/PH/Hz	HP	MANU. / MODEL	NOTES
EF-1	ROOF	425	0.25	120/1/60	1/20	GREENHECK / G-	ALL

- NOTES:**
- PROVIDE MANUFACTURER'S RECOMMENDED ROOF CURB.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH.
 - CONTROL FAN WITH TIMECLOCK TO RUN DURING BUSINESS HOURS.

Key Value	Keynote Text
M01	DEMO EXISTING KITCHEN EQUIPMENT AND ALL ASSOCIATED HVAC IN THIS AREA.
M02	NEW DUCTWORK TO BE INSTALLED TIGHT TO STRUCTURE. EXPOSED DUCTWORK TO BE PAINTED, SEE ARCH. (TYP.)
M03	NEW DUCT TAP WITH SIDE MOUNT DUCT DIFFUSER WITH VOLUME DAMPER. ADJUST AIRFLOW AS INDICATED AND DIRECT AIRFLOW AT A DOWNWARD ANGLE (TYP.)
M04	PROVIDE RETURN AIR OPENING WITH GRILLE JUST BELOW DECK. MATCH SIZE INDICATED ON PLANS (TYP.)

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AI ANALOG INPUT
- AO ANALOG OUTPUT
- APD AIR PRESSURE DROP
- ATU AIR TERMINAL UNIT
- AV ANALOG VIRTUAL
- BAS BUILDING AUTOMATION SYSTEM
- BI BINARY INPUT
- BO BINARY OUTPUT
- BOD BOTTOM OF DUCT
- BOP BOTTOM OF PIPE
- CAV CONSTANT AIR VOLUME
- CFM CUBIC FEET PER MINUTE
- CFH CUBIC FEET PER HOUR
- CHWR CHILLED WATER RETURN
- CHWS CHILLED WATER SUPPLY
- CU CONDENSING UNIT
- CWR CONDENSER WATER RETURN
- CWS CONDENSER WATER SUPPLY
- DDC DIRECT DIGITAL CONTROL
- DN DOWN
- DN EXISTING
- E ELECTRONIC
- E/A EXHAUST AIR
- EAT ENTERING AIR TEMPERATURE
- EF EXHAUST FAN
- EG EXHAUST GRILLE
- ESP EXTERNAL STATIC PRESSURE
- EWIT ENTERING WATER TEMPERATURE
- FACP FIRE ALARM CONTROL PANEL
- FC FAIL CLOSED
- FCU FAN COIL UNIT
- FFA FROM FLOOR ABOVE
- FFB FROM FLOOR BELOW
- FIP FAIL IN PLACE
- FO FAIL OPEN
- FPI FINS PER INCH
- FPM FEET PER MINUTE
- FT.WG FEET WATER GAUGE
- GPM GALLONS PER MINUTE
- HC HEATING CAPACITY
- HP HORSEPOWER
- HPC HIGH PRESSURE CONDENSATE (>30 PSI)
- HPS HIGH PRESSURE STEAM (>30 PSIG)
- HUM HUMIDIFIER
- HWR HEATING WATER RETURN
- HWS HEATING WATER SUPPLY
- IFB INTEGRAL FACE AND BYPASS
- IN.WG INCHES WATER GAUGE
- LAT LEAVING AIR TEMPERATURE
- LPC LOW PRESSURE CONDENSATE (<15 PSIK)
- LPS LOW PRESSURE STEAM (<15 PSIG)
- LWT LEAVING WATER TEMPERATURE
- MAX MAXIMUM
- MBH 1,000 BTUH
- MIN MINIMUM
- MPC MEDIUM PRESSURE CONDENSATE (15<M)
- MPS MEDIUM PRESSURE STEAM (15<MPS<30)
- NC NOISE CRITERIA
- O/A OUTDOOR AIR
- P PNEUMATIC
- P PRESSURE
- PSC PUMPED STEAM CONDENSATE
- QTY QUANTITY
- R/A RETURN AIR
- RE/A RELIEF AIR
- REFR REFRIGERANT
- RF RETURN FAN
- RG RETURN GRILLE
- RH REHEAT
- RTU ROOFTOP UNIT
- S/A SUPPLY AIR
- SC SENSIBLE COOLING CAPACITY
- SD SUPPLY DIFFUSER
- STM STEAM
- TC TOTAL COOLING CAPACITY
- TFA TO FLOOR ABOVE
- TFB TO FLOOR BELOW
- TRA TO ROOF ABOVE
- TSP TOTAL STATIC PRESSURE
- VAV VARIABLE AIR VOLUME
- VEL VELOCITY
- VFD VARIABLE FREQUENCY DRIVE
- WPD WATER PRESSURE DROP

LINETYPES LEGEND:

- NEW - ON ROOF
- EXISTING
- EXISTING - ON ROOF
- DEMOLITION

DUCTWORK LEGEND:

- DUCT (SINGLE LINE)
- DUCT (DOUBLE LINE)
- ROUND O/A OR S/A DOWN
- ROUND O/A OR S/A UP
- ROUND E/A OR R/A DOWN
- ROUND E/A OR R/A UP
- RECTANGULAR O/A OR S/A DOWN
- RECTANGULAR O/A OR S/A UP
- RECTANGULAR E/A OR R/A DOWN
- RECTANGULAR E/A OR R/A UP
- O/A OR S/A DIFFUSER
- E/A OR R/A GRILLE

ANNOTATION LEGEND:

- ABC-1 EQUIPMENT / FIXTURE TAG
- PLAN NOTE
- CONNECT TO EXISTING
- AIR FLOW DIRECTION
- G/R/D TAG
- NECK SIZE
- 300 AIR FLOW (CFM)

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE			
TAG	MAX NC	DESCRIPTION	NOTES
S-1	30	24"x24" FACE CEILING GRID MOUNTED DIFFUSER, PRICE-SCD OR SIMILAR	1,2,5,6
S-2	30	12"x6" FACE DUCT MOUNTED DIFFUSER, TITUS-US300FL OR SIMILAR	1,2,5,6
R-1	30	24"x24" FACE CEILING GRID MOUNTED RETURN GRILLE, PRICE-PDDR OR SIMILAR	2,5
E-1	30	12"x12" FACE CEILING GRID MOUNTED DUCTED EXHAUST GRILLE, PRICE-PDDR OR SIMILAR	2,5,6
R-2	30	12"x12" SIDE WALL MOUNTED RETURN GRILLE, PRICE-60 OR SIMILAR	3,5

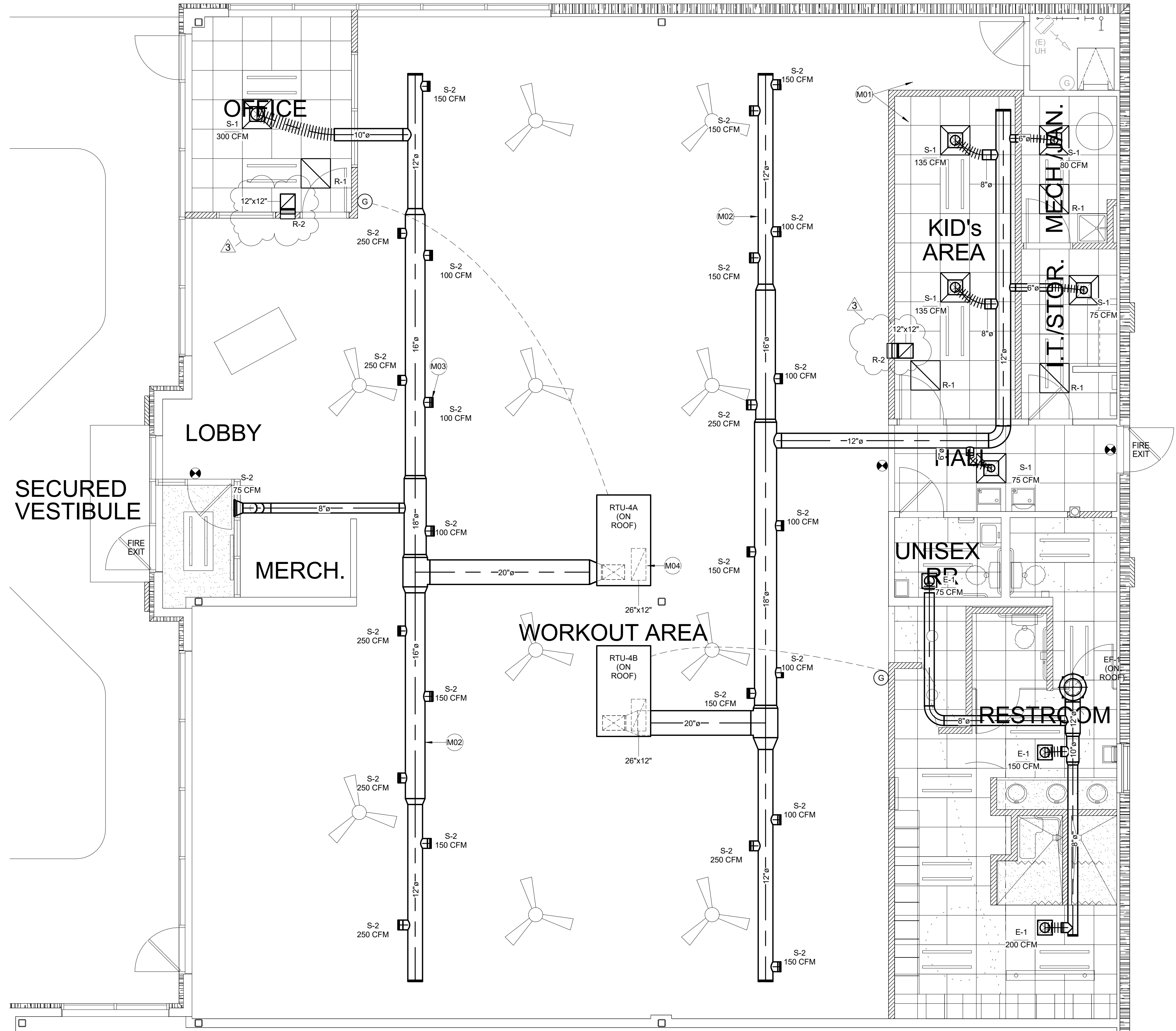
- NOTES:**
- 4-WAY THROW UNLESS NOTED OTHERWISE.
 - BAKED ENAMEL FINISH, TO MATCH CEILING COLOR.
 - FRONT BLADES TO BE PARALLEL TO HORIZONTAL DIMENSION.
 - PROVIDE DOUBLE DEFLECTION BARS THAT ARE ADJUSTABLE.
 - FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL.
 - NECK SIZE SHOWN ON PLAN.

RTU-4A

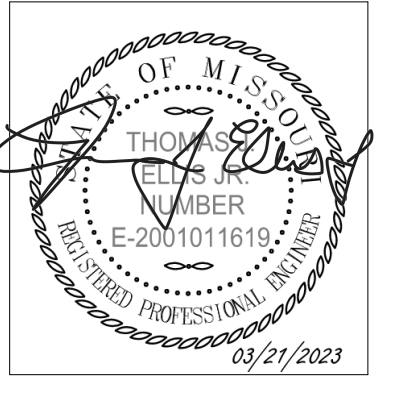
ASHRAE 62.1-2007 MINIMUM VENTILATION REQUIREMENTS						
Room Name	Room Area (sq. ft)	# of People (ASHRAE)	Area Designation	CFM/person	CFM/sq. ft	Design OA CFM
FRONT WO	1400	42	SPORTS - Gym, stadium (play area)	0	0.3	525.00
OFFICE	275	140	OFFICE - Office Space	5	0.06	20.63
LOBBY	140	1	OFFICE - Main entry lobbies	5	0.06	10.50
			TOTAL			570

RTU-4B

ASHRAE 62.1-2007 MINIMUM VENTILATION REQUIREMENTS						
Room Name	Room Area (sq. ft)	# of People (ASHRAE)	Area Designation	CFM/person	CFM/sq. ft	Design OA CFM
BACK WO	1400	42	SPORTS - Gym, stadium (play area)	0	0.3	525.00
KIDS AREA	180	5	EDUCATIONAL - Daycare (thru age 4)	10	0.18	40.50
CORRIDOR	88	0	OFFICE - Office Space	5	0.06	6.60
IT/STORAGE	75	0	GENERAL - Storage rooms	0	0.12	11.25
			TOTAL			600



2 MECHANICAL PLAN - ENLARGED VIEW
1/4" = 1'-0"



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ISSUE DATE: 03.21.2023
SHEET NUMBER:
M01-01
JOB NO. 220085.01



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DATE: MAR. 21, 2023
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- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDER.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- CLEAN LIGHT FIXTURES AND REPLACE LAMPS AS NECESSARY.
- ALL WIRING SHALL BE INSTALLED IN METAL CLAD (MC) CABLE OR EMT CONDUIT TO MEET CODE AS REQUIRED BY THE CURRENT RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC). ALL INSTALLATIONS SHALL BE PER NEC REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL ROUGH-IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- CIRCUITS FOR GENERAL USE POWER SHALL HAVE A MAXIMUM OF 8 RECEPTACLES ON A CIRCUIT (A SINGLE 4-PLEX RECEPTACLE COUNTS FOR 2 OF THE ALLOWED 8 RECEPTACLES).
- ALL WIRE SIZES LISTED ON PLANS ASSUME COPPER CONDUCTORS ARE USED (UNLESS NOTED OTHERWISE).
- THE BUILDING DOES NOT HAVE A FIRE ALARM SYSTEM.
- ALL 'EM' AND EXIT LIGHTING SHALL BE CONNECTED TO UN-SWITCHED LIGHTING CIRCUIT SERVING AREA COVER BY EMERGENCY FIXTURE. ALL EMERGENCY LIGHTING IN EXISTING SPACE SHALL REMAIN.

ELECTRICAL LIGHTING PLAN NOTES:

- CEILING FAN SPEED CONTROL SWITCH, 120V. CONFIRM SWITCH IS COMPATIBLE WITH INSTALLED FANS AND HAS SUFFICIENT CAPACITY TO CONTROL ALL FANS.
- NEW 2-POLE TIME CLOCK 24 HOUR ASTRONOMICAL TIME CLOCK FOR SIGNAGE.
- WATTSTOPPER #DSW-301 BOX MOUNT LINE VOLTAGE OCCUPANCY SENSOR SWITCH. UNITS MAY BE WIRED TO OPERATE IN MULTI-LOCATION CONFIGURATION.
- (3) WATTSTOPPER #DT-355 LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSORS WIRED IN PARALLEL. REFER TO WATTSTOPPER WIRING DIAGRAM FOR WIRING CONFIGURATION.
- CONTRACTOR SHALL INSTALL OWNER PROVIDED CEILING FANS. MOUNT AT HEIGHT AND LOCATION DESIGNATED BY OWNER.

LIGHTING FIXTURE SCHEDULE:

- 8" LENSED 'LED' STRIP FIXTURE MOUNTED HIGH AT STRUCTURE. COORDINATE FIXTURE LOCATIONS WITH DUCTWORK. COOPER #85T2L4040R OR EQUAL.
 - 2'x4' 'LED' PANEL GRID MOUNTED FIXTURE. COOPER #RT24SL WITH SELECTABLE COLOR AND LUMEN OUTPUT. COLOR SHALL BE 3500 AND LUMEN SET AT 4500.
 - 6" APERTURE RECESSED CAN WITH COLOR SELECTABLE LED TRIM. HALO #LT6-DM OR EQUAL.
- EM. TWIN HEAD EMERGENCY FIXTURE, SURELITES #APEL.
X1EM COMBO EXIT/EM LIGHT, SURELITES #APCH7R.
- ALL 'LED' COLORS SHALL BE 4000K (CONFIRM WITH ARCHITECT/OWNER).

ABBREVIATIONS LEGEND:

- AFB ABOVE FINISHED FLOOR
- ED EXISTING TO BE DEMOLISHED
- EM EMERGENCY
- ER EXISTING TO BE RELOCATED
- ETR EXISTING TO REMAIN
- GFCI GROUND FAULT CURRENT INTERRUPTER
- NL NIGHT LIGHT
- TR TAMPER RESISTANT
- UNO UNLESS NOTED OTHERWISE
- WP WEATHER PROTECTED COVER / GFCI

LINETYPES LEGEND:

- NEW
- EXISTING OR BY OTHERS
- DEMOLITION

LIGHTING LEGEND:

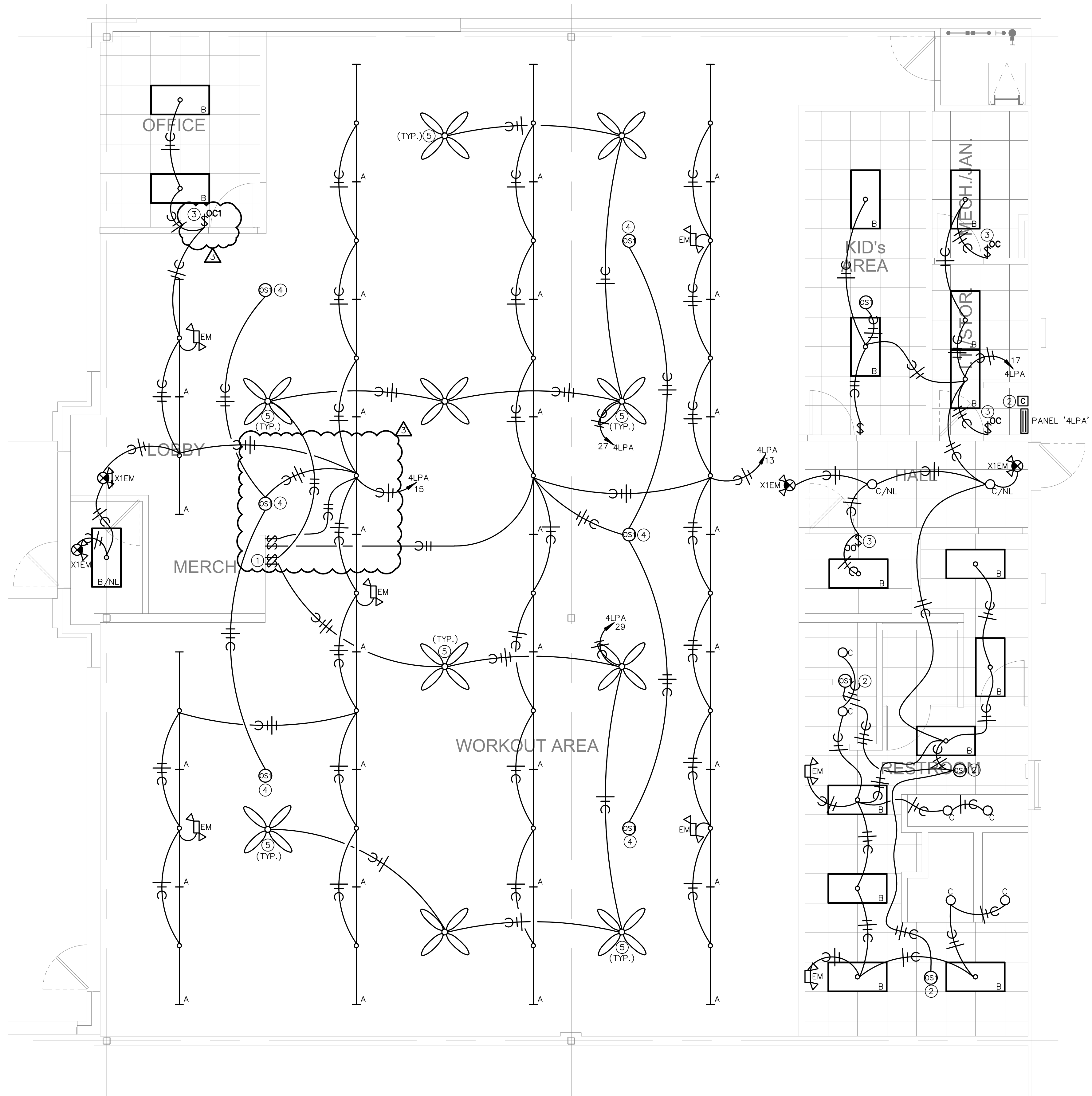
- CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'
 - CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT)
 - STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH.
 - WALL-MOUNT SCONCE OR WALL BRACKET LIGHT FIXTURE.
 - RECESSED WALL WASH CAN LIGHT FIXTURE.
 - RECESSED, SURFACE, OR STEM HUNG LIGHT FIXTURE.
 - SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
 - DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
 - COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

POWER LEGEND:

- INDICATES ABOVE COUNTER (TYP)
 - DUPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
 - DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
 - DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48" AFF (UNO).
 - FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
 - SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18" AFF TO CENTER OF RECEPTACLE (UNO).
 - FOURPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48" AFF (UNO)
 - FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.
 - SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
 - WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
 - WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
 - WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
 - CEILING MOUNTED OCCUPANCY SENSOR.
 - ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. DEVICE SHALL BE CONCEALED IN CEILING.
 - VOICE OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
 - DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
 - COMBINATION VOICE/DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
 - FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.
 - DISCONNECT SWITCH, STARTER, & COMBINATION STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS.
 - ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT
 - JUNCTION BOX
- NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

WIRING LEGEND:

- HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS.
- GROUNDING CONDUCTOR.
- CONDUIT OR CIRCUIT BREAK/CONTINUATION.
- CONDUIT WITH ENDCAP FOR FUTURE USE.
- GROUNDING SOURCE.



Floor Plan - Lighting
SCALE: 1/4" = 1'-0"

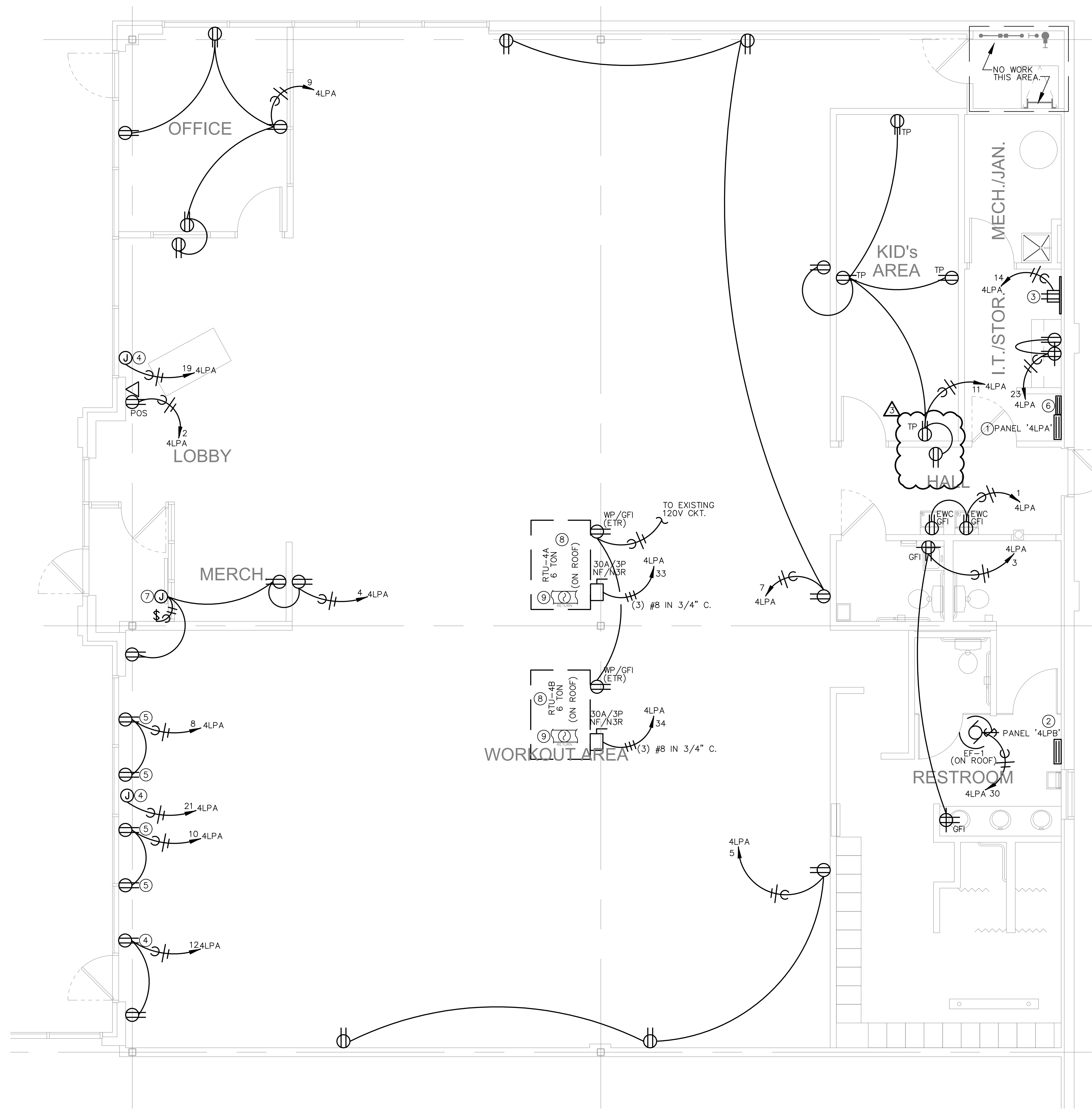
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- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDER.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- CLEAN LIGHT FIXTURES AND REPLACE LAMPS AS NECESSARY.
- ALL WIRING SHALL BE INSTALLED IN METAL CLAD (MC) CABLE OR EMT CONDUIT TO MEET CODE AS REQUIRED BY THE CURRENT RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC). ALL INSTALLATIONS SHALL BE PER NEC REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL ROUGH-IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- CIRCUITS FOR GENERAL USE POWER SHALL HAVE A MAXIMUM OF 8 RECEPTACLES ON A CIRCUIT (A SINGLE 4-PLEX RECEPTACLE COUNTS FOR 2 OF THE ALLOWED 8 RECEPTACLES).
- ALL WIRE SIZES LISTED ON PLANS ASSUME COPPER CONDUCTORS ARE USED (UNLESS NOTED OTHERWISE).
- THE BUILDING DOES NOT HAVE A FIRE ALARM SYSTEM.
- ALL 'EM' AND EXIT LIGHTING SHALL BE CONNECTED TO UN-SWITCHED LIGHTING CIRCUIT SERVING AREA COVER BY EMERGENCY FIXTURE. ALL EMERGENCY LIGHTING IN EXISTING SPACE SHALL REMAIN.
- REFER TO ARCHITECTURAL DEMOLITION PLAN FOR EXTENT OF ELECTRICAL DEMOLITION. COORDINATE ELECTRICAL DEMOLITION WITH DEMOLITION CONTRACTOR.

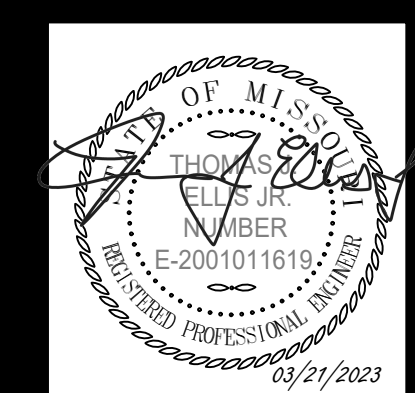
ELECTRICAL POWER PLAN NOTES:

- EXISTING TENANT SPACE 200A 120/208V BRANCH PANEL TO REMAIN. REFER TO PANEL SCHEDULES FOR MORE INFORMATION. PROVIDE UPDATED PANEL SCHEDULE UPON COMPLETION. PROVIDE NEW OR ADDITIONAL BREAKERS TO PANEL AS NECESSARY.
- EXISTING TENANT SPACE PANEL TO BE DE-ENERGIZED AND DEMOLISHED. REMOVE CONDUIT TO ABOVE CEILING AND REMOVE CONDUCTORS BACK TO METER. RE-ROUTE ANY CIRCUITS TO REMAIN TO PANEL '4LPA'.
- FOURPLEX RECEPTACLE AND OWNER PROVIDED IT RACK. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- JUNCTION BOX FOR EXISTING SIGN CIRCUITS SHALL REMAIN.
- MOUNT RECEPTACLES ALONG STORE-FRONT BASE ALONG FLOOR LINE. COORDINATE FINAL RECEPTACLE LOCATIONS WITH TENANT.
- 100A BRANCH PANEL ADJACENT TO PANEL 'L4PA' TO BE REMOVED.
- COORDINATE LOCATION RECEPTACLE FOR NEON SIGN IN VESTIBULE.
- DISCONNECT EXISTING RTU AND LAND RE-USE EXISTING WIRING IF POSSIBLE TO CONNECT NEW UNIT.
- SALVAGE DUCT MOUNTED SMOKE DETECTOR TO EXISTING UNITS AND RE-INSTALL IN NEW RTU. MOUNT EXISTING TEST/RESET BUTTONS IN ACCESSIBLE LOCATION.

PANEL NAME		200 AMP MLO		SUB-FEED LUGS		100% NEUTRAL					
4LPA (EXISTING)		120/208 VOLT		FEED-THRU LUGS		IG BUS					
LOCATION		3 PHASE 4 WIRE		SERVICE ENTRANCE		10K AIC					
BACKWALL											
CIR NO.	CIRCUIT DESCRIPTION	CIRC BRKR AMPS	WIRE POLE SIZE	LOAD VA	CIR NO.	CIRCUIT DESCRIPTION	CIRC. BRKR AMPS	WIRE POLE SIZE	LOAD VA		
1	RECEPTACLES	20	1	360	2	RECEPTACLE - POS	20	1	180		
3	RECEPTACLES	20	1	360	4	RECEPTACLES	20	1	720		
5	RECEPTACLES	20	1	540	6	SPARE	20	1			
7	RECEPTACLES	20	1	540	8	RECEPTACLES	20	1	360		
9	RECEPTACLES	20	1	900	10	RECEPTACLES	20	1	360		
11	RECEPTACLES	20	1	900	12	RECEPTACLES	20	1	360		
13	LIGHTING - WORKOUT	20	1	1,000	14	RECEPTACLES	20	1	360		
15	LIGHTING - WORKOUT	20	1	1,000	16	SPARE	40	2			
17	LIGHTING - OFFICE & RR	20	1	1,000	18	-	-	-			
19	SIGNAGE (ROUTE THRU TIMELOCK)	20	1	500	20	-	-	-			
21	SIGNAGE (ROUTE THRU TIMELOCK)	20	1	500	22	SPARE	100	3			
23	RECEPTACLES	20	1	360	24	-	-	-			
25	RECEPTACLES - ROOF	20	1	360	26	SPARE	30	2			
27	CEILING FANS	20	1	750	28	-	-	-			
29	CEILING FANS	20	1	750	30	EXH. FAN 'EF-1'	20	1	250		
31	-	-	-	3,000	32	-	-	-	3,000		
33	ROOF TOP UNIT - 4A (6T)	40	3	#8	3,000	34	ROOF TOP UNIT - 4A (6T)	40	3	#8	3,000
35	-	-	-	3,000	36	-	-	-	3,000		
37	SPACE ONLY				38	SPACE ONLY					
39	SPACE ONLY				40	SPACE ONLY					
41	SPACE ONLY				42	SPACE ONLY					
TOTAL CONNECTED LOAD (VA)		30,410		DEMAND LOADS		LIGHTS: 4,000		HEAT: 18,000			
X SURFACE MOUNTED						RECEPTS: 6,950		COOLING: 18,000			
FLUSH MOUNTED						MOTORS: 1,750		APPLIANCE: 84.4			
						TOTAL DEMAND (VA): 30,410		TOTAL DEMAND (AMP): 84.4			



Floor Plan - Power
SCALE: 1/4" = 1'-0"



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BLUSH FITNESS
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LEE'S SUMMIT, MISSOURI

DATE: MAR. 21, 2023
REVISED: 03/21/23
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