

RESPONSIBILITY OR LIABILITY FOR THE USE (

THESE PLANS FOR ANY PROJECT OTHER T

STATE, PROVINCE OR TERRITORY SHOWN ON SEAL. THIS BUILDING USE IS ONLY APPLICABLE AREAS MEETING THE STATED DESIGN CRITE

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250422

26 27 26 WIRING DEVICES

A. INSTALL WIRING DEVICES, INCLUDING SWITCHES, RECEPTACLES AND POWER RECEPTACLES, TELEPHONE OUTLET BOXES, COVER PLATES AND BLANK OUTLET PLATES AS SHOWN OR DESCRIBED ON DRAWINGS.

B. UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE NATIONAL ELECTRICAL CODE, ACCESSIBILITY CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS:

SWITCH HEIGHT 48" FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.

CONVENIENCE OUTLETS: SALES: 16" FROM FINISHED FLOOR TO BOTTOM OF OUTLET.

NON-SALES: 16" FROM FINISHED FLOOR TO BOTTOM OF OUTLET TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS.

C. DUPLEX RECEPTACLES SHALL BE A MINIMUM OF 20 AMPERE RATING.

D. COLOR OF DEVICES AND PLATES SHALL BE WHITE UNLESS NOTED OTHERWISE. THE DEVICES SHALL BE OF THE TYPES AND RATINGS LISTED, OR EQUALS BY ARROW-HART, GENERAL ELECTRIC OR PASS AND SEYMOUR. WEATHERPROOF GFCI RECEPTACLES SHALL BE INSTALLED WHERE SHOWN ON DRAWINGS OR AS REQUIRED BY CODE. DEVICES SHALL BE OF THE FOLLOWING SPECIFICATIONS, UNLESS OTHERWISE INDICATED SPECIFICALLY ON PLANS.

SINGLE POLE SWITCHES: 20AMP - 120-277V: HUBBELL "HBL1221PL" DOUBLE POLE SWITCHES: 20AMP - 120-277V: HUBBELL "HBI 1222PL"

GFCI RECEPTACLES: 20AMP - 125V: HUBBELL "GF5362A" FLOOR BOXES: HUBBELL "B-2527/29 WITH S-3925 BRASS COVER"

E. DEVICE COVER PLATES SHALL BE PASS AND SEYMOUR SERIES "RP" OR EQUAL BY EAGLE ELECTRIC MFG. CO. OTHER EQUIVALENT DEVICES WITH MATCHING COVER PLATES MAY BE FURNISHED AS APPROVED BY TENANT.

F. WIRING DEVICES, UNLESS OTHERWISE PROPERLY AUTHORIZED, SHALL BE SAME MANUFACTURERS ONLY; NO ADDITIONAL MANUFACTURERS SHALL BE PERMITTED UNLESS SPECIFICALLY AUTHORIZED BY TENANT OR TENANT'S REPRESENTATIVE.

G. LOW VOLTAGE CONTROL DEVICES SHALL BE AS NOTED ON DRAWINGS OR AS REQUIRED.

A. FURNISH AND INSTALL MOTOR CONTROLS, INCLUDING STARTERS, SAFETY DEVICES AND REMOTE CONTROL STATIONS, UNLESS FURNISHED BY EQUIPMENT MANUFACTURER IN PRE-WIRED ASSEMBLIES.

B. FURNISH AND INSTALL MANUAL MOTOR STARTERS WITH OVERLOAD RELAYS IN EACH LINE CONDUCTOR FOR FRACTIONAL HORSEPOWER MOTORS NOT EQUIPPED WITH BUILT-IN RUNNING OVERCURRENT PROTECTION, NOT REQUIRING AUTOMATIC

C. MANUAL MOTOR STARTERS SHALL INCLUDE OVERLOAD RELAYS IN EACH LINE POLE, SIZED TO TRIP SWITCH AT 125% OF MOTOR FULL LOAD RUNNING CURRENT, NEON PILOT LIGHTS, AND NEMA ENCLOSURES, AS MANUFACTURED BY GENERAL ELECTRIC, ALLEN BRADLEY, CUTLER HAMMER, SIEMENS, OR SQUARE-D.

D. FURNISH AND INSTALL AUTOMATIC MOTOR STARTERS FOR ONE (1) HP OR LARGER SINGLE PHASE AND THREE PHASE MOTORS OR MOTORIZED EQUIPMENT FURNISHED WITHOUT STARTERS, REQUIRING AUTOMATIC STARTERS FOR CONTROL REGARDLESS OF HORSEPOWER RATING. THREE PHASE STARTERS SHALL HAVE ANTI-SINGLE PHASING, UNDERVOLTAGE PROTECTION, AND PHASE REVERSAL PROTECTION RELAYS EITHER INCLUDED IN STARTERS OR WIRED TO STARTER CONTROL CIRCUIT.

E. PROTECTIVE RELAYS SHALL HAVE ADJUSTABLE TIME-DELAY RELAY IN CIRCUIT TO AVOID NUISANCE SHUT DOWNS. TIME MARK OR SIMILAR EQUIPMENT IS ACCEPTABLE, IF PROTECTION IS NOT PART OF STARTER. DO NOT RELY ON PROPERLY-SIZED FUSES AND MOTOR STARTER OVERLOAD HEATERS ALONE TO AVOID SINGLE-PHASING BURNOUTS.

F. FURNISH AND INSTALL CONTACTORS, CONTROL RELAYS, PUSHBUTTON STATIONS, SELECTOR SWITCHES, PILOT LIGHTS, FUSES AND SIMILAR CONTROL AUXILIARIES AS SHOWN ON DRAWINGS AND/OR REQUIRED TO PROVIDE PROPER CONTROL AND ISOLATION BETWEEN VARIOUS AUTOMATIC CONTROLLERS AND EQUIPMENT SHOWN ON THE DRAWINGS.

G. CIRCUIT BREAKERS FEEDING MOTOR LOADS SHALL BE HACR TYPE.

OIL TIGHT, STANDARD SIZE, WITH TRANSFORMER TYPE PILOT LIGHTS, FLUSH MOUNTED WHERE PRACTICAL.

I. OVERLOAD DEVICES, INCLUDING EQUIPMENT FURNISHED UNDER OTHER CONTRACTS, SHALL BE SET AND ADJUSTED TO SUIT THE

A. FURNISH AND INSTALL U.L. LISTED LIGHTING FIXTURES COMPLETE WITH LAMPS AND REQUIRED MOUNTING ACCESSORIES, AS SHOWN

B. REFER TO THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS FOR FIXTURE TYPES, DESCRIPTIONS, AND LAMP AND BALLAST

MANUFACTURERS: OSRAM SYLVANIA, GENERAL ELECTRIC, UNIVERSAL. PROVIDE U.L. LISTED, NON-PCB BALLASTS COMPLYING WITH ANSI, IEEE, AND FCC STANDARDS WHERE APPLICABLE PROVIDE DIMMING, LOW-TEMPERATURE OPERATION, AND OTHER SPECIALTY BALLASTS WHEREVER SPECIFIED OR REQUIRED. FLUORESCENT BALLASTS SHALL BE HIGH-FREQUENCY ELECTRONIC TYPE. NORMAL LIGHT OUTPUT. WITH A CLASS "A" NOISE RATING, MINIMUM POWER FACTOR OF 0.95, A BALLAST FACTOR GREATER THAN 0.87, AND 10 PERCENT OR LESS TOTAL HARMONIC DISTORTION (THD). FLUORESCENT ELECTRONIC BALLASTS SHALL CARRY A FIVE-YEAR WARRANTY FROM DATE OF

a. PROVIDE NEMA PREMIUM BALLASTS COMPLYING WITH THE CONSORTIUM FOR ENERGY EFFICIENCY (CEE) HIGH-PERFORMANCE T8 SPECIFICATION FOR 4' LONG, 32 WATT, T8 FLUORESCENT LAMPS:

MANUFACTURERS: OSRAM SYLVANIA, GENERAL ELECTRIC, PHILIPS. 4'LONG, T8 FLUORESCENT LAMPS SHALL COMPLY WITH THE CONSORTIUM FOR ENERGY EFFICIENCY (CEE) HIGH-PERFORMANCE

E. LIGHT EMITTING DIODE (LED) LIGHT SOURCES (IN OTHER THAN LISTED AND LABELED EXIT AND EMERGENCY LIGHTING EQUIPMENT): 1. PROVIDE U.L. LISTED LED LIGHT SOURCES CONSISTING OF LED MODULES/ARRAYS. SOLID-STATE ELECTRONIC DRIVERS. AND THERMAL MANAGEMENT SYSTEMS, DESIGNED TO MAINTAIN LED LIFE AND LUMEN MAINTENANCI

2. LED LIGHT SOURCES SHALL PROVIDE THE NOMINAL LUMEN OUTPUT, COLOR TEMPERATURE, AND COLOR RENDERING INDEX (CRI) TEST LED LUMINAIRES IN ACCORDANCE WITH IES STANDARD LM-79 FOR DELIVERED LUMEN OUTPUT AND IES STANDARDS LM-80 AND TM-21 FOR AVERAGE LED LIFE.

4. LED'S SHALL BE BINNED TO INSURE COLOR AND LUMEN OUTPUT CONSISTENCY AMONG THE FURNISHED LIKE LIGHTING FIXTURES. 5. LED DRIVERS SHALL BE U.L. LISTED WITH CLASS A SOUND RATINGS, CLASS P THERMAL-PROTECTION, MINIMUM POWER FACTOR (PF) OF 0.95, 10 PERCENT OR LESS TOTAL HARMONIC DISTORTION (THD), AND SHALL COMPLY WITH FCC RULES AND

6. WHERE INDICATED ON THE DRAWINGS, PROVIDE DIMMABLE LED LIGHT SOURCES.

INSTALL LIGHTING FIXTURES AND ACCESSORIES IN ACCORDANCE WITH N.E.C., U.L., AND MANUFACTURER'S RECOMMENDATIONS. SUPPORT LIGHTING FIXTURES IN ACCORDANCE WITH THE N.E.C., SECURELY MOUNTED TO ELEMENTS OF THE BUILDING STRUCTURE SUCH THAT FIXTURES ARE SQUARE, PLUMB, AND RIGID, AND WILL NOT FALL OR SAG. ADJUST MOUNTING HEIGHT OF SUSPENDED LIGHTING FIXTURES TO SUIT CONDITIONS OF EXPOSED BEAMS, ELECTRICAL AND MECHANICAL EQUIPMENT, AND AIR

3. SUPPORT LIGHTING FIXTURES INSTALLED IN OR ON SUSPENDED CEILING SYSTEMS TO THE BUILDING STRUCTURE INDEPENDENT OF THE CEILING SYSTEM - DO NOT SUPPORT OR ATTACH LIGHTING FIXTURES TO SUSPENDED CEILING SYSTEMS: 4 WIRE LIGHTING FIXTURES INSTALLED IN OR ON SUSPENDED CEILING SYSTEMS WITH FLEXIBLE METAL CONDUIT TO AN OUTLET ON THE CONDUIT SYSTEM ABOVE. SUCH THAT THE CONDUIT SYSTEM SHALL NOT INTERFERE WITH THE REMOVAL OF CEILING PANELS

5. PROVIDE LAMPS IN LIGHTING FIXTURES - LAMPS SHALL BE NEW AND UNUSED PRIOR TO INSTALLATION AND IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK. 6. AT COMPLETION OF INSTALLATION AND BEFORE TURNING OVER TO THE OWNER, CLEAN AND REMOVE DIRT AND SMUDGES FROM

A. PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER WORK CALLED FOR HEREIN AND AS INDICATED ON THE DRAWINGS.

B. MATERIAL AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS: 1. TELECOMMUNICATIONS INDUSTRY ASSOC./ELECTRONIC INDUSTRIES ALLIANCE (TIA/EIA):

a. TIA/EIA 568A.1. 2. AND 3 TELECOMMUNICATION CABLING STANDARD.

TIA/EIA 569 TELECOMMUNICATION PATHWAYS AND SPACES.

TIA/EIA 606 ADMINISTRATION OF INFRASTRUCTURE TIA/EIA 607 GROUNDING AND BONDING

COMPLY WITH NFPA 70.

C. FURNISH NEW AND UN-DETERIORATED MATERIALS OF A QUALITY NOT LESS THAN SPECIFIED HEREIN. NEW MATERIAL SHALL HAVE MANUFACTURER'S NAME, MODEL NUMBER, OR OTHER IDENTIFICATION MARKING.

D. THE CONTRACTOR SHALL BEAR THE COSTS OF PERMITS, INSPECTIONS TESTS, AND APPROVALS. E. PROVIDE ON-SITE PERSONNEL TO TROUBLESHOOT AND REPAIR ANY PROBLEMS THAT ARISE DURING CUTOVER AS THEY RELATE TO

F. UPON COMPLETION OF THE WORK, FURNISH A WARRANTY FOR COMPONENTS, PARTS, AND ASSEMBLIES AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. WARRANTY SERVICES SHALL BE PROVIDED BY A CERTIFIED, FACTORY TRAINED REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER FOR A MINIMUM OF ONE YEAR OR AS SPECIFIED IN EACH INDIVIDUAL SECTION.

27 05 10 TELEPHONE AND DATA CONDUIT SYSTEM

A. FURNISH AND INSTALL A SYSTEM OF CONDUIT RACEWAYS, OUTLET BOXES, PULL WIRES, AND TERMINAL BOARDS AS SHOWN ON THE DRAWINGS. TELEPHONE SWITCHING APPARATUS, CONDUCTORS, INSTRUMENTS, MISCELLANEOUS EQUIPMENT AND APPURTENANCES ARE NOT PART OF THIS CONTRACT AND WILL BE PROVIDED AND INSTALLED BY OTHERS.

B. CONDUITS FOR TELEPHONE WALL OUTLETS AND DATA WIRING SHALL BE A MINIMUM OF 1" UNLESS NOTED OTHERWISE.

C. FURNISH AND INSTALL A 3/4" THICK, FIRE-TREATED, PLYWOOD TELECOM BACKBOARD AT LOCATION SHOWN ON THE DRAWINGS. PAINT WITH FIRE RETARDANT "P-1B" OR AS DIRECTED BY TENANT'S CONSTRUCTION MANAGER. THE PLYWOOD BACKBOARD SHALL BE

SECURELY ATTACHED TO THE BUILDING WALLS TO SUPPORT RELAY PANELS, TERMINAL BLOCKS AND OTHER HARDWARE WEIGHING APPROXIMATELY 10 POUNDS PER SQUARE FOOT

D. CONDUIT RUNS FOR DATA AND TELEPHONE SHALL BE CONTINUOUS WITH NO JUNCTION BOXES EXCEPT AS NOTED ON DRAWINGS. THIS INCLUDES BUT IS NOT LIMITED TO RUNS BETWEEN TELEPHONE BOARD, MANAGER'S OFFICE, SOUND SYSTEM, CASHWRAPS AND

E. FURNISH AND INSTALL PULL STRING IN EMPTY CONDUITS. LABEL CONDUITS FOR PURPOSE DESIGNATED.

F. FURNISH AND INSTALL #6 COPPER GROUND WIRE FROM TELECOM BACKBOARD TO RESPECTIVE 120/208 VOLT TENANT PANELBOARD -GROUND PER TELEPHONE COMPANY'S REQUIREMENTS.

G. OUTLET BOXES TO BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

27 05 15 INTERIOR COMMUNICATIONS PATHWAYS

INTERIOR COMMUNICATIONS PATHWAYS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR AND BY THE ELECOMMUNICATIONS CONTRACTOR AS SPECIFIED HEREIN.

B. INSTALL CONDUITS AS DETAILED IN DRAWINGS.

27 11 00 HORIZONTAL CABLING AND CONNECTIVITY

A. PROVIDE A 10/100/1000 MBPS FULL-DUPLEX TRANSMISSION ETHERNET NETWORK OVER 4-PAIR, CATEGORY 6 UTP HORIZONTAL CABLING. THE SYSTEM SHALL BE A CERTIFIED SOLUTION BY THE CONNECTIVITY MANUFACTURER. THE HORIZONTAL INFRASTRUCTURE SHALL SUPPORT BOTH VOICE AND DATA APPLICATIONS.

B. THIS SECTION INCLUDES WIRE, CABLE, CONNECTING DEVICES, INSTALLATION, AND TESTING FOR WIRING SYSTEMS TO BE USED AS SIGNAL PATHWAYS FOR VOICE, VIDEO, AND DATA TRANSMISSION. THE SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

MOUNTING ELEMENTS

UNSHIELDED TWISTED-PAIR CABLE. PATCH, STATION, AND CROSS CONNECT CORDS

JACKS AND FACEPI ATES TERMINATION AND PATCH PANELS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

1. COPPER CABLES (UTP): a. BERK-TEK, INC.

BELDEN MOHAWK d. GENERAL

e. UNIPRISE MODULAR JACKS & FACEPLATES:

LEVITON HUBBELL ORTRONICS

PANDUIT

e. UNIPRISE

D. HORIZONTAL CABLES FOR VOICE/DATA/VIDEO INFRASTRUCTURE:

THE CABLING EVERY FOUR FEET (MAXIMUM).

LISTED AS COMPLYING WITH CATEGORY 6 OF TIA/EIA-568-C

CONDUCTORS: NO. 23 AWG, SOLID COPPER, THERMOPLASTIC-INSULATED UTP CABLE: FOUR-PAIR, INDIVIDUALLY TWISTED PAIRS OF CONDUCTORS; COLOR-CODED; ENCLOSED IN A JACKET. CABLE RATING: PLENUM - LISTED FOR USE IN AIR-HANDLING SPACES, NON-PLENUM IN OTHER AREAS.

CABLE COLOR CODING: BLUE FOR DATA, YELLOW FOR VOICE, AND WHITE FOR VIDEO.

E. WORKSTATION OUTLETS: SINGLE CATEGORY 6 JACK CONNECTOR MOUNTED IN FACEPLATE.

FACEPLATE: HIGH IMPACT PLASTIC; COLOR TO BE WHITE. MOUNTING: FLUSH UNLESS OTHERWISE INDICATED

LABELING: SHALL HAVE INTEGRAL LABEL WITH LABEL COVER. JACK SPACES: AS INDICATED ON THE DRAWINGS WITH ANY NECESSARY BLANKS.

BLANKS SHALL MATCH FACEPLATE COVER. WIRING METHOD: INSTALL HORIZONTAL CABLING IN RACEWAY EXCEPT WITHIN RACKS AND ENCLOSURES, IN ACCESSIBLE CEILING SPACES, AND ROUTED VERTICALLY IN GYPSUM BOARD PARTITIONS, WHERE OPEN-CABLE WIRING METHOD MAY BE USED. CONCEAL

INSTALL CABLE USING TECHNIQUES, PRACTICES, AND METHODS THAT ARE CONSISTENT WITH CATEGORY 6 RATING OF COMPONENTS AND THAT INSURE CATEGORY 6 PERFORMANCE OF COMPLETED AND LINKED SIGNAL PATHS, END TO END.

RACEWAY AND CABLING EXCEPT IN UNFINISHED SPACES. IN ACCESSIBLE CEILINGS, USE APPROPRIATELY SIZED J-HOOKS TO SUPPORT

H. DO NOT BEND CABLE IN HANDLING OR IN INSTALLING TO SMALLER RADII THAN MINIMUMS RECOMMENDED BY MANUFACTURER.

HORIZONTAL CABLES: LABEL CABLES AT THE WORK AREA END AND AT THE CLOSET END WITH THE PATCH PANEL PORT NUMBER. LABEL EACH CABLE WITHIN 3 INCHES OF EACH TERMINATION, WHERE IT IS ACCESSIBLE IN A CABINET OR JUNCTION OR OUTLET BOX,

WORKSTATION: LABEL CABLES WITHIN OUTLET BOXES AND NEATLY TYPED ON THE INTEGRAL LABEL IN THE FACEPLATE WITH THE PATCH PANEL PORT NUMBER.

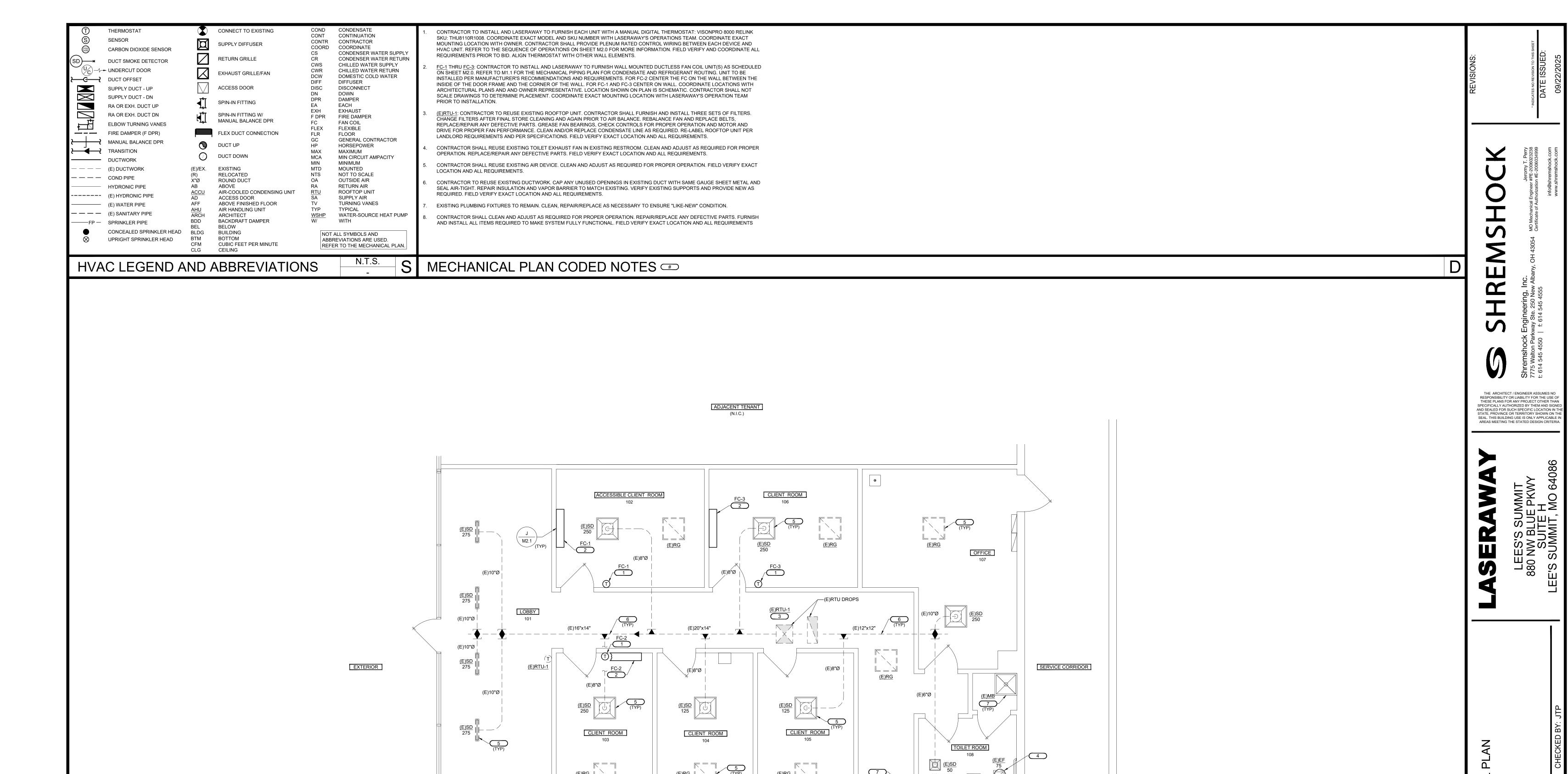
K. WARRANTY PERIOD FOR COMMUNICATIONS CONNECTIVITY (INCLUDING COPPER): MANUFACTURER'S STANDARD, BUT NOT LESS THAN 25 YEARS FROM DATE OF CONTRACT COMPLETION.

(END OF ELECTRICAL SPECIFICATIONS)

THE ARCHITECT / ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE (THESE PLANS FOR ANY PROJECT OTHER TH ND SEALED FOR SUCH SPECIFIC LOCATION IN TRATE, PROVINCE OR TERRITORY SHOWN ON T SEAL. THIS BUILDING USE IS ONLY APPLICABLE AREAS MEETING THE STATED DESIGN CRITE

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250422 DRAWING NUMBER:



DO NOT SCALE

ADJACENT TENANT (N.I.C.)

(E)SK ⊕

REFER TO SHEET M1.1 FOR THE MECHANICAL GENERAL NOTES.

VERIFY ALL CONDITIONS IN FIELD PRIOR TO BIDS.

250422

MECHANICAL PLAN

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED BY THE JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING PROVIDED BY THE LANDLORD SHALL BE PROVIDED BY THE CONTRACTOR. ALL WORK (MATERIALS, FABRICATION, INSTALLATION, ETC.) SHALL COMPLY WITH THE APPLICABLE SECTIONS OF ALL STATE AND LOCAL CODES (MECHANICAL CODE, BUILDING CODE, ENERGY CODE, ETC.) AND THE LATEST EDITION OF SMACNA.
- READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK. COORDINATE AND SCHEDULE ALL WORK WITH AND BETWEEN ALL CONTRACTORS AND PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS. FIELD VERIFY AND COORDINATE WORK BETWEEN ALL TRADES, LANDLORD REQUIREMENTS, CEILING HEIGHTS AND EXISTING CONDITIONS PRIOR TO THE START OF WORK OR ORDERING OF EQUIPMENT.
- VERIFY ALL CONDITIONS IN FIELD PRIOR TO BID. VISIT JOB SITE AND BE FAMILIAR WITH LANDLORD REQUIREMENTS AND EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXTRAS DUE TO FAILURE TO VISIT THE JOB SITE AND/OR FAILURE TO PREDETERMINE ALL REQUIREMENTS IMPOSED BY THE LANDLORD, EXISTING CONDITIONS OR OTHER AUTHORITIES.
- VERIFY DUCT ROUTING AS EARLY IN THE JOB PROCESS AS POSSIBLE. IF MINOR CHANGES ARE REQUIRED, NOTIFY TENANT CONSTRUCTION MANAGER IMMEDIATELY. DUCT DIMENSIONS ARE NOMINAL CLEAR INSIDE DIMENSIONS. DUCT LAYOUTS ARE SCHEMATIC. FIELD COORDINATE ALL DUCT RUNS PRIOR TO DUCT FABRICATION. NO EXTRAS SHALL BE AWARDED FOR DUCT REVISIONS CAUSED BY LACK OF COORDINATION. REFER TO SPECIFICATIONS FOR MORE INFO.
- ALIGNMENT/PLACEMENT OF HVAC DEVICES IS CRITICAL. COORDINATE ALIGNMENT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND LIGHTING PLAN. COORDINATE BOX-OUT LOCATIONS FOR ALL DRYWALL MOUNTED AIR DEVICES WITH CEILING FRAMING. ORIENT ALL AIR DEVICES TO MINIMIZE VIEW INTO PLENUM/DUCT. CEILING AIR DEVICES TO HAVE BLADE OPENINGS FACING WALL OR SOFFIT AND WALL AIR DEVICES TO HAVE OPENINGS FACING UP.
- SPIN-IN FITTINGS WITHOUT MANUAL BALANCING DAMPERS TO BE USED FOR ALL ROUND BRANCH TAPS AT INACCESSIBLE LOCATIONS WITH BALANCING REQUIRED WITHIN TWO (2) FEET OF DIFFUSER WITH PLASTER FRAME. FLEX DUCT TO BE A MAXIMUM OF 5'-0" LONG AND SHALL BE INSULATED.
- PROVIDE AS-BUILT DRAWINGS ALONG WITH ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION TO LANDLORD AND TENANT AT COMPLETION OF PROJECT.
- FURNISH AND INSTALL STRUCTURAL STEEL REQUIRED TO SUPPORT EQUIPMENT AND COORDINATE LOCATIONS AND REQUIREMENTS WITH THE LANDLORD REPRESENTATIVE. COST OF THIS WORK AND ANY STRUCTURAL ENGINEERING FEES REQUIRED SHALL BE INCLUDED IN THIS BID.

MECHANICAL GENERAL NOTES

- 9. ALL EQUIPMENT, PIPING AND/OR DUCTWORK NOT BEING USED OR SHOWN TO REMAIN IS FULLY REMOVED AND NOT ABANDONED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 10. ANY EXISTING WALL, FLOOR OR CEILING SURFACE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- 11. COMPLETELY INSTALL ALL ACCESSORIES PER EQUIPMENT MANUFACTURER RECOMMENDATIONS, INCLUDING ALL TEMPERATURE CONTROL CONNECTIONS. PROVIDE ALL MISCELLANEOUS MATERIALS AND LABOR REQUIRED TO COMPLETE THIS WORK PER MANUFACTURER PROVIDED INSTRUCTIONS.
- 12. CONTRACTOR SHALL UTILIZE A THIRD-PARTY TEST AND BALANCE AGENT. BALANCE ALL HVAC SYSTEMS TO AIRFLOW VALUES (CFM) NOTED ON PLANS AND PROVIDE AIR BALANCING REPORT TO TENANT FOR ALL HVAC SYSTEMS. CAREFULLY FOLLOW SPECIFICATIONS FOR AIR BALANCE WORK. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE REQUIREMENTS PRIOR TO BID AND INCLUDE THE COST OF THIS WORK IN THIS BID.
- 13. FURNISH AND INSTALL ACCESS PANELS AS DIRECTED AND AS SPECIFIED BY TENANT FOR ALL EQUIPMENT OR OTHER ITEMS REQUIRING ACCESS. VERIFY AND COORDINATE PLACEMENT OF ACCESS WITH EQUIPMENT SERVICE CLEARANCES AND WITH TENANT CONSTRUCTION MANAGER.
- 14. PRIOR TO MAKING ANY PIPE OR DUCT PENETRATIONS OR POSITIONING ANY EQUIPMENT ON/IN THE STRUCTURE, ALL PROPOSED LOCATIONS AND/OR PENETRATIONS SHALL MATCH LOCATIONS INDICATED ON THE LANDLORD APPROVED PLANS AND SHALL BE FIELD VERIFIED AND APPROVED BY LANDLORD FIELD REPRESENTATIVE.
- 15. ALL EQUIPMENT TO BE SUPPORTED FROM STRUCTURAL MEMBERS. NO WEIGHT CAN BE PLACED ON THE ROOFING MATERIALS OR INSULATION.

16. FURNISH AND INSTALL TEMPORARY WEATHERPROOFING OF ALL ROOF PENETRATIONS, UNTIL LANDLORD APPROVED ROOFING

CONTRACTOR HAS MADE THE FINAL PATCH. VERIFY REQUIREMENTS WITH LANDLORD.

17. ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR AT THIS CONTRACTOR'S EXPENSE. COORDINATE ROOF PENETRATIONS WITH LANDLORD'S REPRESENTATIVE. FIELD VERIFY AND COORDINATE REQUIREMENTS WITH LANDLORD PRIOR TO BID AND INCLUDE THE COST OF THIS WORK IN THIS BID.

- 18. ALL MECHANICAL EQUIPMENT, PIPES AND DUCTS, PENETRATING AND/OR LOCATED ON ROOF SHALL BE PAINTED TO MATCH COLOR OF ROOF. USE THE APPROPRIATE COATS OF PRIMER PRETREATMENT, PRIOR TO FINAL COAT. THE FINAL COAT OF THE ROOF MATCHING COLOR SHALL BE APPROVED BY LANDLORD CONSTRUCTION COORDINATOR. SPACE NUMBER SHALL BE PERMANENTLY MARKED ON ALL EQUIPMENT
- 19. FURNISH AND INSTALL IDENTIFICATION ON ALL EQUIPMENT MOUNTED OUTSIDE OF SPACE (ON ROOF OR GRADE). PROVIDE PLASTIC LAMINATED PLATE OR STENCIL WITH A MINIMUM OF 4" HIGH BLACK LETTERS, INDICATING TENANTS NAME AND SPACE NUMBER. VERIFY
- 20. REFER TO STRUCTURAL SHEETS FOR STRUCTURAL SUPPORT DETAILS.
- 21. CONTRACTOR SHALL PERFORM STARTUP ON ALL HVAC EQUIPMENT AND CONTROL SYSTEM. PRIOR TO ENERGIZING ANY HVAC UNIT FOR PERMANENT OR TEMPORARY HEATING OR COOLING, CONTRACTOR MUST HAVE APPROVAL FROM TENANT CONSTRUCTION MANAGER AND IS REQUIRED TO HAVE COMPLETED STARTUP PROCEDURES AS OUTLINED IN THE MANUFACTURER PROVIDED INSTALLATION AND STARTUP MANUALS FOR EACH PIECE OF HVAC EQUIPMENT.
- 22. CONTRACTOR SHALL PROVIDE A FIRE WATCH AND PORTABLE FIRE EXTINGUISHER (MINIMUM SIZE 2A:20BC), WHENEVER ANY WELDING IS DONE WITHIN THE DEMISED PREMISES. THE PERSON PERFORMING THE FIRE WATCH SHALL REMAIN IN THE SPACE FOR AT LEAST ONE (1) HOUR AFTER THE COMPLETION OF ANY WELDING. THIS SHALL BE COORDINATED THROUGH THE LOCAL FIRE DEPARTMENT.
- 23. FURNISH AND INSTALL FIRE-RATED PIPE SLEEVES AND SEALS ON ALL PIPING THAT PENETRATES A FIRE-RATED PARTITION.
- 24. FIRE PROTECTION PLANS MUST BE ENGINEERED AND WET SIGNED AND SEALED BY A LANDLORD APPROVED, LICENSED, REGISTERED FIRE PROTECTION CONTRACTOR IN THE LOCAL JURISDICTION. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE REQUIREMENTS WITH LANDLORD PRIOR TO BID AND INCLUDE THE COST OF THIS WORK IN THIS BID.
- 25. FIRE PROTECTION CONTRACTOR SHALL MODIFY SPRINKLER HEADS AND PIPING FOR NEW OWNER STORE LAYOUT. RUN HYDRAULIC CALCULATIONS AS REQUIRED. REFER TO SPECIFICATIONS. DESIGN NEW LAYOUT TO MEET NFPA 13, LOCAL AUTHORITY HAVING JURISDICTION AND LANDLORD REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE REFRIGERANT PIPING BETWEEN EACH PIECE OF EQUIPMENT AND MAKE FINAL CONNECTIONS. PROVIDE SHUT-OFF VALVES, CHARGING PORTS, FILTER DRYERS, SIGHT GLASSES, 24 VOLT SOLENOID VALVES, AND ALL ITEMS REQUIRED FOR A COMPLETE AND FUNCTIONING REFRIGERATION SYSTEM. INSTALL TXV AND CLAMP-ON PIPE TEMPERATURE SENSOR AS FURNISHED BY MANUFACTURER. INSULATE SUCTION LINE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS FOR DISTANCE, NUMBER OF FITTINGS AND HEIGHT OF LIQUID LIFT. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS WITH EXISTING CONDITIONS. SEE HVAC EQUIPMENT SCHEDULE FOR MORE INFORMATION. ROUTE REFRIGERANT LINES TIGHT TO STRUCTURE WHEN POSSIBLE AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURE IN AN ORDERLY MANNER. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS
- PROVIDE A CONDENSATE DRAIN FROM EACH PIECE OF HVAC EQUIPMENT. CONTRACTOR SHALL PROVIDE AN ASPEN WHITE CONDENSATE PUMP FOR EACH 'FC' WALL HUNG FAN COIL UNIT. INSTALL CONDENSATE PUMP TIGHT TO THE BOTTOM OF THE FC WITH NO GAP. MINIMUM DRAIN SIZE SHALL BE 1". PIPING TO SLOPE TOWARD OUTLET AT A MINIMUM OF 1 INCH FOR EVERY 10 FEET AND SHALL BE WROUGHT COPPER TUBING AND FITTINGS WITH FULLY SOLDERED JOINTS. ROUTE DRAINS AS INDICATED ON PLAN TO MOP BASIN AND PROVIDE CODE REQUIRED AIR GAP. ROUTE CONDENSATE LINES TIGHT TO STRUCTURE WHEN POSSIBLE AND RUN IN AN

ORDERLY MANNER. FIELD VERIFY AND COORDINATE ROUTING, SLOPE, MATERIALS, OUTLET AND ALL OTHER REQUIREMENTS.

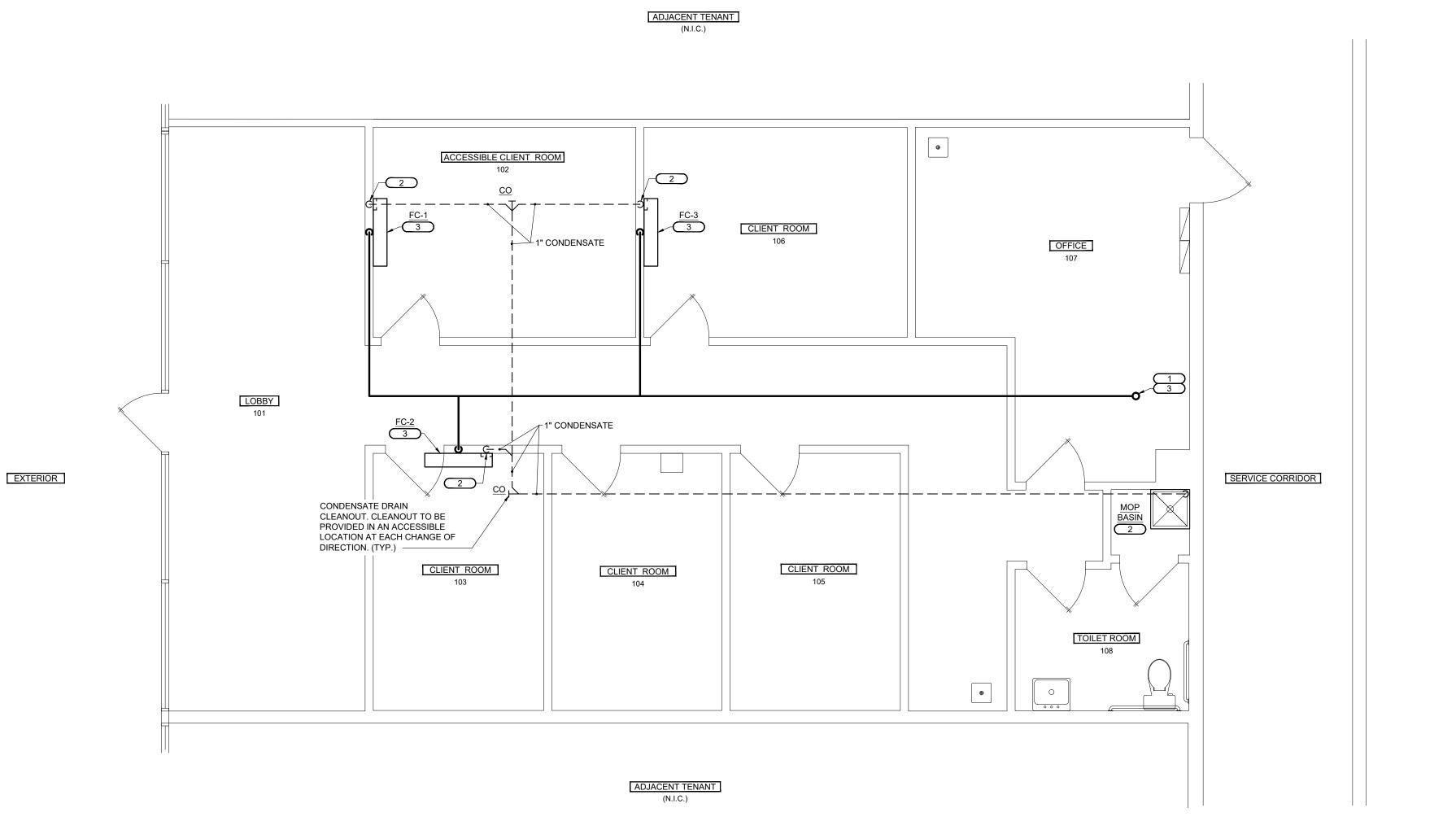
ROUTE REFRIGERANT PIPING FROM CONDENSING UNITS DOWN THRU ROOF TO NEW FAN COIL UNITS.

RESPONSIBILITY OR LIABILITY FOR THE USE O THESE PLANS FOR ANY PROJECT OTHER THA AND SEALED FOR SUCH SPECIFIC LOCATION IN T STATE, PROVINCE OR TERRITORY SHOWN ON T SEAL. THIS BUILDING USE IS ONLY APPLICABLE AREAS MEETING THE STATED DESIGN CRITE

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250422

DRAWING NUMBER:

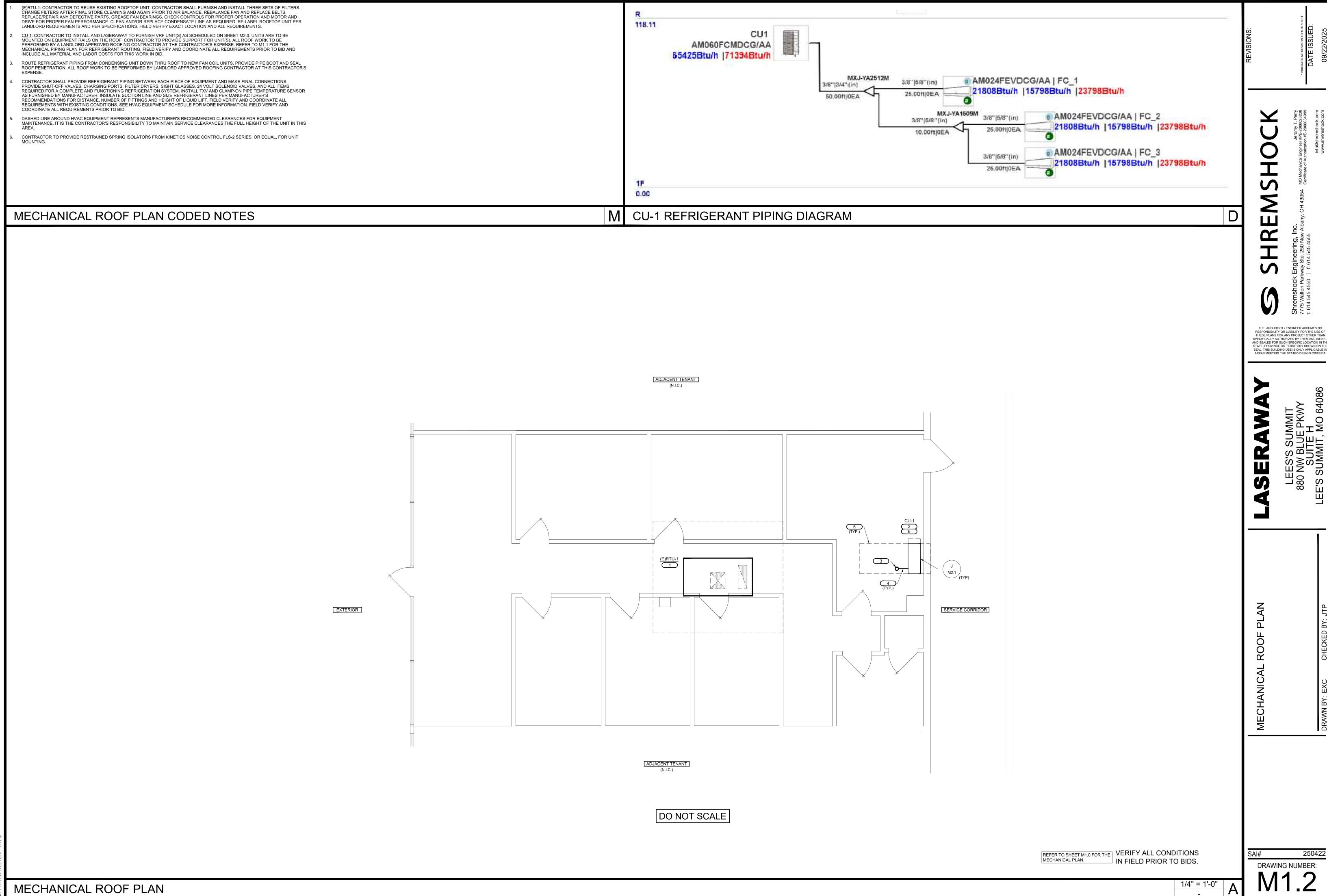


DO NOT SCALE

REFER TO SHEET M1.0 FOR THE | VERIFY ALL CONDITIONS IN FIELD PRIOR TO BIDS. MECHANICAL PLAN.

MECHANICAL PIPING PLAN

H MECHANICAL PIPING PLAN CODED NOTES - D



0 051155					DE6	IGN WEA	THEE	DVDVI	/FTED	S		
G = GENERAL CONTRACTOR	Ü		り 山		レロン Design Parameters:	IGN WEA		CPARAN		3		
O = OWNER / LASERAWAY E = EXISTING	SUPPLIED	INSTALLED	ZEYNO I		City Name			Kansas	City			
N/A = NOT APPLICABLE	JP	ST/	Z		Location Latitude			Miss	ouri 39.3 Deg.			
ITEM	S	$ \hat{\mathbf{Z}} $	7	PROPRIETARY VENDOR /	Longitude Elevation Summer Design Dry-Bulb			10:	24.0 ft			
				COMMENTS	Summer Coincident Wet-Bulb Summer Daily Range				75.0 °F 18.8 °F			
DIVISION 21 - FIRE SUPPRESSION SPRI	INKLER		S / DI\	IVISION 23 - HVAC	Winter Design Dry-Bulb Winter Design Wet-Bulb Atmospheric Clearness Number				-2.5 °F			
SPRINKLER STUB SPRINKLER MAIN	N/A N/A	N/A N/A			Average Ground Reflectance Soil Conductivity			0	0.20 . 800 BTU/(hr:1	ft·°F)		
SPRINKLER GRID	N/A	N/A		CONTRACTOR TO USE LANDLORD'S PREFERRED FIRE PROTECTION CONTRACTOR FOR ALL FIRE PROTECTION WORK, FIELD VERIFY AND	Local Time Zone (GMT +/- N hou Consider Daylight Savings Time Simulation Weather Data	***************************************			No			
			(COORDINATE PRIOR TO BID. CONTRACTOR TO USE LANDLORD'S PREFERRED FIRE PROTECTION	Current Data is Design Cooling Months		2001	ASHRAE Handb	ook			
SPRINKLER MODIFICATIONS	N/A	N/A	(CONTRACTOR FOR ALL FIRE PROTECTION WORK. FIELD VERIFY AND COORDINATE PRIOR TO BID.	Air System Information			•				
CU	0	G 1,2		LASERAWAY TO FURNISH AND CONTRACTOR TO INSTALL VRF UNITS. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS PRIOR TO BID.	Air System Name Equipment Class Air System Type	PKG ROOF		Number of zones . Floor Area Location		16	05.0 ft ²	
CU COND PUMP	G	G			Sizing Calculation Information	SZCAV		Location	K	ansas City, Miss	souri	
TRUCTURAL SUPPORT FOR FCUS	G	G			Calculation Months	Jan to Dec		Zone CFM Sizing Space CFM Sizing	Sum o	f space airflow	rates	
.TU	E	E			Sizing Data Central Cooling Coil Sizing Data	Calculated		Space CFIVI SIZING	individu	ıаі реак space і	oads	
OOF CURBS	E	E			Total coil load		s	Load occurs at		Aug	1500	
TRUCTURAL SUPPORT FOR RTU	E	E			Total coil load Sensible coil load Coil CFM at Aug 1500	56.2 MBI	- ∕I	OA DB / WB Entering DB / WB Leaving DB / WB .		74.5 / 60.9 /	65.2 °F 60.1 °F	
ONDENSING UNITS / HEAT PUMPS	O/G	G 1,2		LASERAWAY TO FURNISH CUS. CONTRACTOR PROVIDE SUPPORTS AND TO INSTALL VRF UNITS. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS	Max block CFMSum of peak zone CFMSensible heat ratio	3990 CFN	Л	Coil ADP Bypass Factor Resulting RH).100	
URBS / STRUCTURAL SUPPORT FOR	G	G		PRIOR TO BID.	CFM/Ton ft²/Ton BTU/(hr·ft²)	758.8 305.2	,	Design supply temp Zone T-stat Check Max zone temperat) 		58.0 °F of 1 OK	
DNDENSING UNITS / HEAT PUMPS RV UNIT	N/A			LASERAWAY TO FURNISH AND CONTRACTOR TO INSTALL ERV. FIELD VERIFY	BTU/(hr·tt²) - Water flow @ 10.0 °F rise	39.3 N/A		wax zone temperat	นาธ ueviaแอก		. v. v F	
RUCTURAL SUPPORT FOR ERV	N/A	N/A	0 <i>A</i>	AND COORDINATE ALL REQUIREMENTS PRIOR TO BID.	Central Heating Coil Sizing Data							
AV BOXES	N/A	N/A			Max coil load Coil CFM at Des Htg			Load occurs at BTU/(hr·ft²)				
LL DUCTWORK (LOW AND MEDIUM RESSURE,FLEXIBLE DUCT, ETC.)	E	E			Max coil CFM Water flow @ 20.0 °F drop	3990 CFN	 / 1	Ent. DB / Lvg DB .				
R DEVICES - DIFFUSERS GRILLES AND AFFLES	E	E			Sunnly Fan Sizing Data							
RE DAMPERS - WALL AND/OR CEILING	N/A	N/A			Supply Fan Sizing Data Actual max CFM	3990 CEN	Л	Fan motor BHP			1.09 BHP	
ANUAL BALANCING DAMPER AND OTORIZED DAMPERS	G	G			Standard CFM Actual max CFM/ft²	3845 CFN	Л	Fan motor kW Fan static			0.87 kW	
/AC PIPING	G	G										
HILLED WATER / HOT WATER PIPING VALVES	N/A	N/A				DESI	GN COOLING		DES	IGN HEATING T DES HTG		
JTSIDE AIR INTAKE HOOD / FAN	N/A	N/A				COOLING OA DB /	_		ATING OA DB /		2.5 °F Latent	
ITSIDE AIR ACCESS AND DUCTWORK	G	G			ZONE LOADS Window & Skylight Solar Loads	Details 62 ft ²	(BTU/hr) 2617	(BTU/hr)	Details 62 ft ²	(BTU/hr) -	(BTU/hr) -	
LIEF AIR HOOD / FAN LIEF AIR / MAKEUP AIR	N/A N/A	N/A N/A			Wall Transmission Roof Transmission	226 ft² 1605 ft²	220 4545	-	226 ft² 1605 ft²	705 5223	-	
HAUST AIR ACCESS AND DUCTWORK	IN/A	E E			Window Transmission Skylight Transmission	62 ft² 0 ft²	700	-	62 ft² 0 ft²	2343	-	
OKE EVAC AND CONTROLS	N/A	N/A			Door Loads Floor Transmission	42 ft² 1538 ft² 0 ft²	483 0	-	42 ft ² 1538 ft ² 0 ft ²	759	-	
JCT SMOKE DETECTORS	E	E			Partitions Ceiling Overhead Lighting	0 ft ² 772 W	0 0 2274	-	0 ft²	0	-	
DNE DAMPERS	N/A	N/A			Task Lighting Electric Equipment	215 W 6650 W	675 21289	-	0	0	- -	
NIT HEATERS	N/A	N/A			People Infiltration	14	2443	2870 0	0	0	0	
JCT HEATERS	N/A	N/A			Miscellaneous Safety Factor	10% / 10%	0 3525	0 287	10%	0 903	0	
EMPERATURE CONTROL SYSTEM	Е	Е			>> Total Zone Loads Zone Conditioning	-	38771 44918	3157 3157	-	9934 9806	0	
UMIDISTAT	N/A	N/A			Plenum Wall Load Plenum Roof Load	0%	0	-	0	0	-	
ETURN AIR FAN	N/A	N/A			Plenum Lighting Load Return Fan Load	3990 CFM	0		3990 CFM	0	-	
DILET EXHAUST FAN DILET EXHAUST DUCTWORK AND ROOF	E	E			Ventilation Load Supply Fan Load Space Fan Coil Fans	265 CFM 3990 CFM	6357 2958	3756	265 CFM 3990 CFM	19066 -2958	-	
AP/WALL OUTLET	E	E			Duct Heat Gain / Loss >> Total System Loads	5%	1939 56172	6913	5%	497 264 11	-	
R BALANCE REPORT S-BUILT DRAWINGS	G G	G		G.C. TO COORDINATE DATE OF REPORT DUE WITH THE PROJECT MANAGER	Central Cooling Coil Central Heating Coil	-	56172 0	6924	-	0 26411	0	
ENERAL NOTES	l G	G			>> Total Conditioning Key:	Positive v	56172 alues are clg	6924 loads	Positive v	26411 values are htg lo	0 ads	
THIS RESPONSIBILITY MATRIX DELINEATES: OWNER AND LANDLORD SUPPLIED ITEMS. EXISTING LANDLORD WORK TO BE VERIFIED B							alues are htg			values are clg lo		
G.C. TO REFER TO OSM FOR CONTACT NAME A. SEE M.E.P. DRAWINGS FOR ADDITIONAL INFO	AND PHO	١.		OCUMENTS ARE ARE PERMITTED, U.N.O. AND APPROVED BY THE OWNER.								
I. ALL ITEMS NOT FOUND IN THIS MATRIX ARE T DEFINITIONS	O BE SU	PPLIED AND	INSTA	ALLED BY GENERAL CONTRACTOR.	-							
				OARD TRUCK UNLESS OTHERWISE DEFINED IN GREATER DETAIL. AND UNLOADING TO COMPLETION IN PLACE, READY FOR INTENDED USE.	_							
. G.C. TO VERIFY EXISTING CONDITION IS ACCE . G.C. IS RESPONSIBLE FOR UNLOADING OWNE	ER SUPPL	LIED CONST	RUCTIO	ION ITEMS. G.C. TO COORDINATE SCHEDULE AND DELIVERY WITH SUPPLIER.								
EMS. ALL DELIVERIES REQUIRED TO HAVE LIFT RE RECEIVED OR IF PARTS ARE MISSING.	T GATES	BY INTERIC	R DEFI	NY EXPEDITED SHIPPING COSTS AND PROVIDING LABOR AND EQUIPMENT FINE. G.C. REQUIRED TO NOTIFY OWNER WITHIN 24 HOURS IF DAMAGED PARTS		A 1 : :	—					1.7
	REQUIRE MS SPEC	D - REFER T	TO ELEC E DOCU	ECTRICAL DRAWINGS. UMENTS ARE ARE PERMITTED, U.N.O. AND APPROVED BY THE OWNER.	HVAC LOAD C	ALCULA		NS.				<u>K</u>
G.C. IS REQUIRED TO UNWRAP AND INSPECT. AMAGES, IMPERFECTIONS OR MISSING ITEMS	ALL OWN WITHIN 2	NER SUPPLII 24 HOURS O	ED MAT	TERIAL, FIXTURES & HARDWARE IMMEDIATELY UPON RECEIPT & REPORT CEIPT - FAILURE TO DO SO CAN RESULT IN BACK-CHARGE. OSSESSION. ALL UTILITIES INCLUDING GAS MUST BE TURNED ON PRIOR TO C.O.	HVAC SYSTEM SEQUENCE OF OPERATIONS	S:						
2.22325.7552 001				2 1.2 2.1.2 mov 22 1.5 miles 6.11 mov 10 0.0.	COOLING SEASON TIMER CONTROL PREPROGRAMMED M	ORNING FOI IIPMENT S	STARTUP	HEATING SEASON TIMER CONTE	I ROL PREPROGRA	AMMED MORNINI	G EQUIPMENT &	TARTIID
					SEQUENCE:			SEQUENCE:				
					INDIVIDUAL AIR CONDITIONING UNITS S ACCORDING TO SYSTEM PREPROGRAI	MMED SCHEDULE.		WARM-UP CY 1. MORNIN	NG WARM-UP CY	CLE MORNING		
					MORNING COOLDOWN (STORE C AIR INTAKE MOTORIZED DAMPER OFF, UNTIL COOLDOWN OPERAT	RS REMAIN CLOSED ÁN	ID ERV-1	•	WARM-UP CYCLE OPENS FOR BUS OUTSIDE AIR MC	E STARTS 2 HOU SINESS.		
					TEMPERATURE COOLS DOWN TO RESPECTIVE OUTSIDE AIR DAMP	SENSOR SETPOINT,		•	AND ERV-1 REMA SPACE TEMPERA	AINS OFF. ATURE SENSORS	CONTROL HEA	
					ON. 2. NORMAL OPERATION (STORE OP			2. NORMA	RESPECTIVE AIR	TORE OPEN/OCO	CUPIED)	
					RESPONDS TO UNIT TEMPERATU OR COOLING TO MAINTAIN SPAC	RE SENSORS FOR HEA	ATING		AFTER COMPLÈT CONDITIONING L TEMPERATURE.	JNITS MAINTAIN	SET POINT	
					3. NIGHT SHUTDOWN (STORE CLOS • ACCORDING TO TIMER CO SHUTDOWN SCHEDULE, A	ONTROL PREPROGRAM		3. NIGHT	TEMPERATURE S AFTER PREPROC	SETBACK (STORE	CLOSED/UNOC	CUPIED)
					OFF, INCLUDING ERV-1 AN CLOSE.				SHUTDOWN, SYS CYCLE TO PROV	STEM OPERATES IDE OVERNIGHT	ON NIGHT SETE HEATING AS RE	QUIRED
					INTERMEDIATE SEASONS			•	BY 60°F SETPOIN SENSOR. NIGHT TEMPERA	TURE SENSOR (CYCLES RESPEC	CTIVE
					 OUTDOOR AIR TEMPERATURE BE MORNING STARTUP, COO BUILDING OCCUPIED OPE 	LDOWN CYCLE, NORM	AL		AIR CONDITIONII HEATING STAGE SPACE TEMPERA	S ON/OFF AS RE	QUIRED TO MAIN	NTAIN
					SHUTDOWN, SAME AS CO	OLING SEASON OPERA	ATION.	•	SENSOR SETPOI OUTSIDE AIR MC	NT. TORIZED DAMPE		

MARK	<u>FC-1</u>	FC-2	<u>FC-3</u>
MANUFACTURER	SAMSUNG	SAMSUNG	SAMSUNG
MODEL#	AM024TNVDCH/AA	AM024TNVDCH/AA	AM012TNVDCH/A
PAIRED WITH	CU-1	CU-1	CU-1
NOMINAL TONNAGE	2.0	2.0	2.0
SUPPLY AIR FLOW (CFM)	530	530	530
COOLING			
NOMINAL TOTAL (MBH)	23.2	23.2	23.2
SENSIBLE TOTAL (MBH)	18.0	18.0	18.0
HEATING			
NOMINAL TOTAL (MBH)	23.2	23.2	23.2
ELECTRICAL			
VOLTS / Ø / HZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60
MOTOR OUTPUT (W)	27	27	27
MCA (AMPS)	0.5	0.5	0.5
MOCP (AMPS)	(1) 15 CAN	BE USED FOR ALL UNITS IN	SCHEDULE
WEIGHT (LBS.)	26.5	26.5	26.5
ACCESSORIES	1, 2	1, 2	1, 2
NOTES	A - F	A - F	A - F

- CONTRACTOR INSTALLING THE EQUIPMENT SHALL BE CERTIFIED FOR INSTALLING SAMSUNG EQUIPMENT BY SAMSUNG - NO EXCEPTIONS WITHOUT WRITTEN PRIOR CONSENT FROM LASERAWAY.
- WIRING OF CONTROLS TO BE BY CONTRACTOR. REFER TO CONTROL WIRING SCHEMATICS FOR ANY FIELD INSTALLED CONTROL DEVICES NOT FACTORY INSTALLED.

COORDINATE ALL REQUIREMENTS WITH LASERAWAY OPERATIONS TEAM PRIOR TO BID.

UNIT FURNISHED BY LASERAWAY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE ALL SUPPORT.

WALL MOUNTE	ED FAN COIL U	JNIT SCHEDU	JLE - VRF	VRF OUTDOOR UNIT S	CHE
MARK	<u>FC-1</u>	<u>FC-2</u>	<u>FC-3</u>	MARK	
MANUFACTURER	SAMSUNG	SAMSUNG	SAMSUNG	MANUFACTURER	
MODEL #	AM024TNVDCH/AA	AM024TNVDCH/AA	AM012TNVDCH/AA	MODEL #	AM06
PAIRED WITH	CU-1	CU-1	CU-1	PAIRED WITH	<u>F</u>
NOMINAL TONNAGE	2.0	2.0	2.0	COOLING	
SUPPLY AIR FLOW (CFM)	530	530	530	AMBIENT OAT (°FBD)	
COOLING				EAT (°FBD / WB)	7
NOMINAL TOTAL (MBH)	23.2	23.2	23.2	NOMINAL TOTAL CAPACITY (MBH)	
SENSIBLE TOTAL (MBH)	18.0	18.0	18.0	NOMINAL SENSIBLE CAPACITY (MBH)	
HEATING				HEATING	
NOMINAL TOTAL (MBH)	23.2	23.2	23.2	HEATING CAPACITY @ 47°F (MBH)	
ELECTRICAL				EFFICIENCY FOR A NON-DUCTED SYSTEM	Л
VOLTS / Ø / HZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	SEER / EER	
MOTOR OUTPUT (W)	27	27	27	HSPF	
MCA (AMPS)	0.5	0.5	0.5	PHYSICAL DATA	
MOCP (AMPS)	(1) 15 CAN I	BE USED FOR ALL UNITS IN	SCHEDULE	NUMBER OF FANS	
WEIGHT (LBS.)	26.5	26.5	26.5	NO. OF COMPRESSORS	
ACCESSORIES	1, 2	1, 2	1, 2	ELECTRICAL	
NOTES	A - F	A - F	A - F	VOLTS/Ø/HZ	
ACCESSORIES:				MCA (AMPS)	
 CONTRACTOR PROVIDED CONTRACTOR FURNISHE) DISCONNECT SWITCH. ED AND INSTALLED REFRIGER	DANT SDECIALTIES		MOCP (AMPS)	
Z. CONTINACTOR TURNISHE	D AND INSTALLED MERNIGER	INALLIEU.		· · · · · · · - /	

ACCESSORIES:

WEIGHT (LBS.)

ACCESSORIES

UNIT TO BE PROVIDED WITH THERMAL SWITCH. SOME FIELD INSTALLATION MAY BE REQUIRED. CONTRACTOR TO VERIFY.
UNIT TO BE PROVIDED WITH CRANKCASE HEATER. SOME FIELD INSTALLATION MAY BE REQUIRED. CONTRACTOR TO VERIFY.

243

1 - 6

A-F

- UNIT TO BE PROVIDED WITH BASEPAN HEATERS. SOME FIELD INSTALLATION MAY BE REQUIRED. CONTRACTOR TO VERIFY. CONTRACTOR PROVIDED DISCONNECT SWITCH.
- CONTRACTOR PROVIDED REFRIGERANT SPECIALTIES.
- CONTRACTOR PROVIDED RESTRAINED SPRING ISOLATORS.
- SAMSUNG EQUIPMENT BY SAMSUNG NO EXCEPTIONS WITHOUT WRITTEN PRIOR CONSENT FROM LASERAWAY. WIRING OF CONTROLS TO BE BY CONTRACTOR.

CONTRACTOR INSTALLING THE EQUIPMENT SHALL BE CERTIFIED FOR INSTALLING

- REFER TO CONTROL WIRING SCHEMATICS FOR ANY FIELD INSTALLED CONTROL DEVICES NOT FACTORY INSTALLED.

 UNIT FURNISHED BY LASERAWAY AND INSTALLED BY CONTRACTOR.
- CONTRACTOR TO PROVIDE ALL SUPPORT. REFER TO THE STRUCTURAL DRAWINGS FOR MORE INFORMATION. COORDINATE ALL REQUIREMENTS WITH LASERAWAY OPERATIONS TEAM PRIOR TO BID.

MARK	(E)RTU-1	
MANUFACTURER	LENNOX	
MODEL#	TGA072	
NOMINAL TONNAGE	6	
EER	10.1	
SUPPLY AIR FLOW (CFM)	2400	
OUTSIDE AIR FLOW (CFM)	480	
AMBIENT OAT (°FDB)	96.0	
EXT. S.P. (IN. W.C.)	0.1	
DX COOLING COIL		
EAT (°FBD/WB)	74.5 / 65.2	
TOTAL (MBH)	72.0	
SENSIBLE (MBH)	57.6	
NATURAL GAS HEAT		
INPUT (MBH)	150.0	
OUTPUT (MBH)	120.0	
ELECTRICAL		
VOLTS/Ø/HZ	460 / 3 / 60	
MOTOR (HP)	2.0	
MCA (AMPS)	16.0	
MOCP (AMPS)	25	
MAX. WEIGHT (LBS.)	EXISTING	
ACCESSORIES	EXISTING	
NOTES	EXISTING	

- CONTRACTOR PROVIDED DUCT SMOKE DETECTOR IN SUPPLY AIR.
 FACTORY FURNISHED (FIELD INSTALLED) 14" HIGH ROOF CURB.
 FACTORY FURNISHED ENTHALPY ECONOMIZER, HOOD WITH BIRDSCREEN AND BAROMETRIC RELIEF (SOME FIELD ASSEMBLY REQUIRED).
 FACTORY PROVIDED (FIELD WIRED) NON-POWERED GFI OUTLET.
 FACTORY PROVIDED (FIELD INSTALLED) THERMOSTAT AND REMOTE SENSOR.
 FACTORY PROVIDED HINGED ACCESS DOORS.
 FACTORY FURNISHED (FIELD INSTALLED) HAIL GUARD
 FACTORY PROVIDED WITH COASTAL CONDENSER COIL COATING.
 FACTORY FURNISHED POWER EXHAUST FOR RELIEF AIR (SOME FIELD ASSEMBLY REQUIRED).
 FACTORY PROVIDED WITH HOT GAS REHEAT FOR DEHUMIDIFICATION.
 FACTORY PROVIDED WITH 2" FILTER RACK.
- WIRING OF CONTROLS TO BE BY CONTRACTOR.
 REFER TO CONTROL WIRING SCHEMATICS FOR ANY FIELD INSTALLED CONTROL DEVICES
 NOT FACTORY INSTALLED.
 FIELD SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL
 FULLY CLOSE ON UNIT SHUTDOWN.
 UNIT FURNISHED AND INSTALLED BY CONTRACTOR.
 CONTRACTOR TO PROVIDE ALL STRUCTURAL SUPPORT.

					IV.	IECHANIC/	AL VENTILA	TION OUTSIL	DE AIR CA	LCULATION						
	GENERAL INFO	PMATION						2021	MISSOURII	MECHANICAL CO	DE					
	GENERAL INFO	RIVATION						CALCU	_ATED				EXHAU	ST	SUMMAF	.RY
IIT MARK(S)	ROOM NAME - NUMBER	OCCUPANCY CLASS	FLOOR AREA (SQFT)	PEOPLE PER 1000 SQFT (NET AREA)	# OF PEOPLE IN SPACE	REQUIRED (OUTDOOR AIR (CFM / PERSON)	(CFM/ PERSON) * (# OF PEOPLE IN SPACE)	(CFM/ SQFT)* FLOOR AREA	BREATHING ZONE OUTDOOR AIR (CFM)	AIR DISTRIBUTION EFFECTIVENESS	ZONE OUTSIDE AIR RATE (REQUIRED CFM)	NUMBER OF WATER CLOSETS OR URINALS	CODE REQUIRED EXHAUST	MIN. AMOUNT OF PROVIDED OUTDOOR AIR (CFM)	PROVIDE D EXHAUST AIRFLOW
			(Az)		(Pz)	(Ra)	(Rp)	(Rp * Pz)	(Ra * Az)	(Vbz = Rp*Pz+Ra*Az)	(Ez)	(Voz = Vbz/Ez)		(CFM)		
(E)RTU-1	LOBBY - 101	RECEPTION AREAS	318	30	4*	0.06	5	20	20	40	1.0	40	0	0	40	0
E)RTU-1	CLIENT ROOM - 105	OFFICE SPACES	156	5	1	0.06	5	5	10	15	1.0	15	0	0	15	0
E)RTU-1	CLIENT ROOM - 106	OFFICE SPACES	154	5	1	0.06	5	5	10	15	1.0	15	0	0	15	0
E)RTU-1	OFFICE - 107	OFFICE SPACES	233	5	2	0.06	5	10	14	24	1.0	24	0	0	25	0
E)RTU-1	TOILET ROOM - 108	TOILET ROOMS - PUBLIC	92	0	0	0.00	0	0	0	0	1.0	0	0	70	0	70
E)RTU-1	CORRIDOR	CORRIDORS	276	0	0	0.06	0	0	17	17	1.0	17	0	0	20	0
E)RTU-1	CLIENT ROOM - 102	PATIENT ROOMS	155	10	2	0.00	25	50	0	50	1.0	50	0	0	50	0
E)RTU-1	CLIENT ROOM - 103	PATIENT ROOMS	125	10	2	0.00	25	50	0	50	1.0	50	0	0	50	0
E)RTU-1	CLIENT ROOM - 104	PATIENT ROOMS	125	10	2	0.00	25	50	0	50	1.0	50	0	0	50	0
		TOTAL	1634											TOTAL	480	70

VERIFY ALL CONDITIONS IN FIELD PRIOR TO BIDS.

THE ARCHITECT / ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND SIGNED AND SEALED FOR SUCH SPECIFIC LOCATION IN THE STATE, PROVINCE OR TERRITORY SHOWN ON THE SEAL. THIS BUILDING USE IS ONLY APPLICABLE IN AREAS MEETING THE STATED DESIGN CRITERIA.

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MECHANICAL SCHEDUL AND CALCULATIONS

250422

DRAWING NUMBER:

2. OUTDOOR TEMPERATURE BELOW 60°F.

MAINTAIN SPACE SET POINT.

AC UNITS OPERATE ON MECHANICAL COOLING WITH

OR HEATING IS ENERGIZED AS NECESSARY TO

COMPRESSOR OPERATION SAME AS COOLING SEASON,

AND ERV-1 REMAINS IF THE OVERNIGHT SPACE TEMPERATURE DROPS TO 50° F. AFTER THE SUPPLY

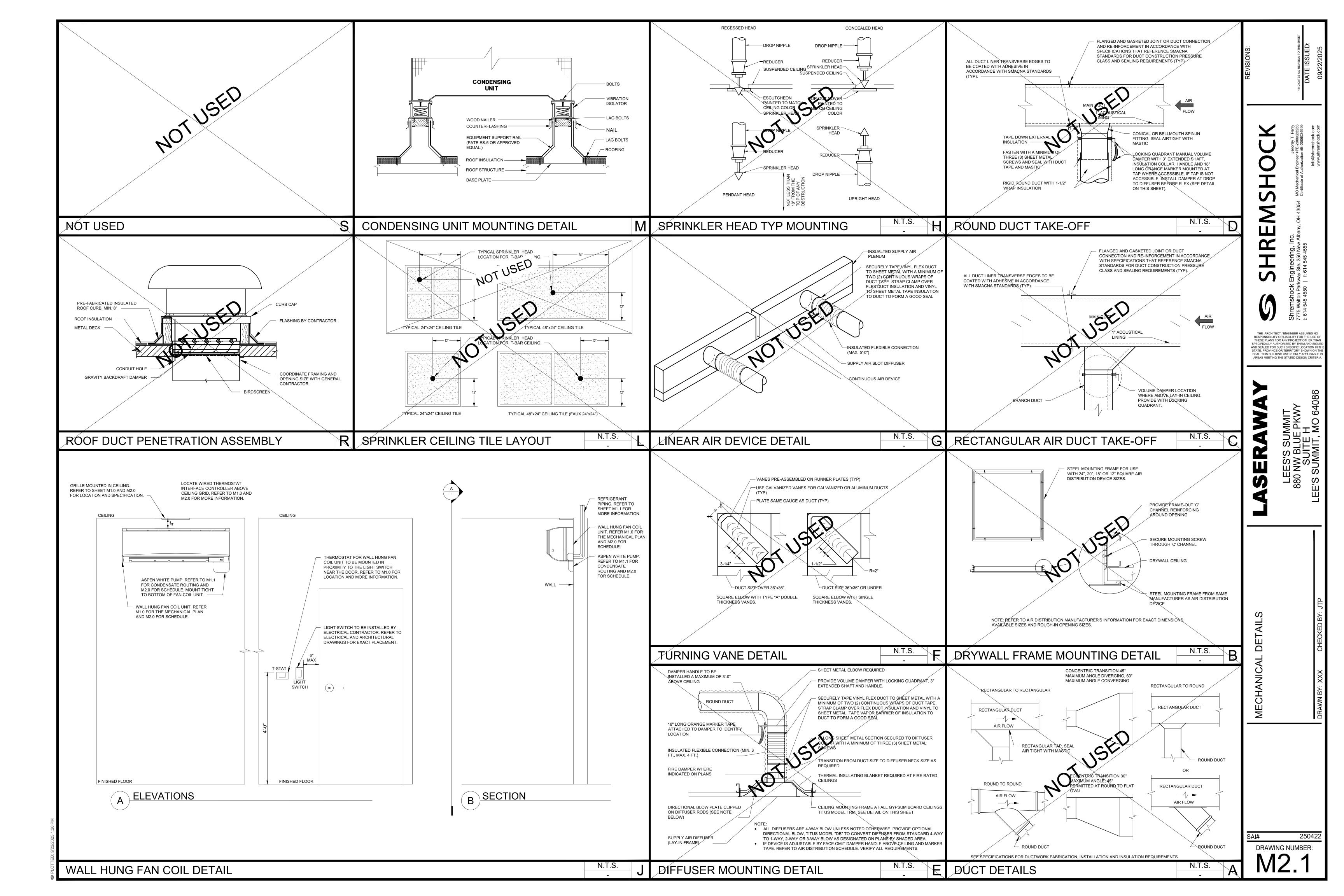
FAN AND HEATING HAVE BEEN ENERGIZED, A LOW

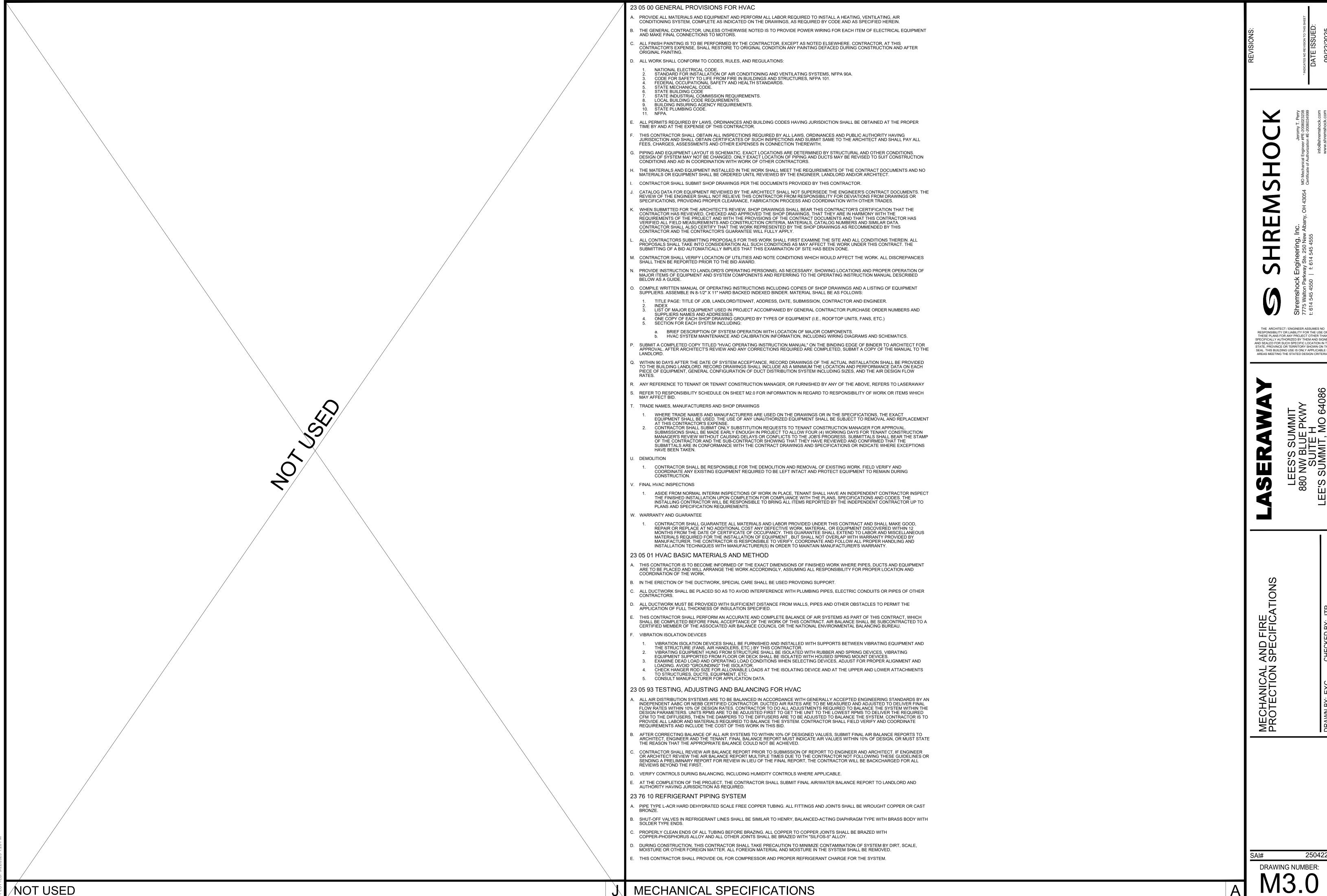
CENTRAL MONITORING STATION AND THE SPACE

THE AFFECTED AREAS.

TEMPERATURE ALARM SHALL BE INDICATED AT THE

LIGHTING SHALL BE ENERGIZED TO PROVIDE HEAT TO





# & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.4.4.2.1 [ME10] ²	Ducts and plenums having pressure class ratings are Seal Class A construction.			□Complies □Does Not □Not Observable	Requirement will be met.
6.8.1-15, 6.8.1-16 [ME110] ²	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			□ Not Applicable □ Complies □ Does Not □ Not Observable □ Not Applicable	Exception: Requirement does not apply.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.2.3 [ME19] ³	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.5.2.4.1 [ME68] ³	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.2.4.2 [ME69] ³	Humidification system dispersion tube hot surfaces in the airstreams of ducts or airhandling units insulated >= R-0.5.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.2.5 [ME70] ³	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.2.6 [ME106] ³	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.4.7 [ME107] ³	Chilled-water cooling coils provide a 15°F or higher temperature difference between leaving and entering water temperatures and a minimum of 57°F leaving water temperature at design conditions			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Page 5 of 9

Report date: 09/17/25

Page 6 of 9

Data filename:

Project Title: LSA_250422_Lees Summit

Data filename:

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)	
oject Title: ata filename:	LSA_250422_Lees Summit		Report date Page	e: 09/17/25 3 of 9

Footing / Foundation Inspection Complies?

□Does Not

■Not Observable □Not Applicable

6.4.3.7 Freeze protection and snow/ice

[FO9]³ melting system sensors for future

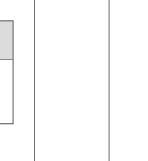
connection to controls.

Additional Comments/Assumptions:

& Req.ID

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems listor values.
6.5.4.2 [ME25] ³	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.7.2.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

# & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:	Efficiency:	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3 [ME4] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.4.3.8 [ME6] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.3.2.1 [ME40] ²	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R	R	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation	in.	in.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.



Comments/Assumptions

Exception: Requirement does not apply.

COMcheck Software Version COMcheckWeb **Mechanical Compliance Certificate**

Project Information

Project Type:

90.1 (2019) Standard Energy Code: LSA_250422_Lees Summit Project Title: Lees Summit, Missouri Location: Climate Zone:

Alteration

Construction Site: Owner/Agent: 3056 NJ-10

Designer/Contractor: Shremshock Engineering Inc. LaserAway Denville, New Jersey 07834 225 W. Plaza St., Suite 202 7775 Walton Parkway, Suite 250 Solana Bach, California 92075 New Albany, Ohio 43054

Mechanical Systems List

Quantity System Type & Description

1 CU-1 VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 66 kBtu/h, Proposed Efficiency = 8.80 HSPF, Required Efficiency = 7.70 HSPF Cooling Mode: Capacity = 60 kBtu/h, Proposed Efficiency = 17.50 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: None

SYSTEM VERIFICATION REQUIRED.

3 FC-1, FC-2. FC-3 Cooling: 3 each - VRF Zone Fan Unit, Capacity = 23 kBtu/h No minimum efficiency requirement applies Fan System: FC (2-ton) -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans: FC (2-ton) Supply, Constant Volume, 530 CFM, 0.1 motor nameplate hp, 10.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeromy T. Perr	y - PE	
Name - Title	Signature	Date
Project Title:	LSA 250422 Lees Summit	Report date: 09/17

Data filename:

↑ △ COM*check* Software Version COM*checkWeb*

Inspection Checklist

Requirements: 100.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 6.4.4.2.1, 6.7.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
4.2.5.2 [PR5] ¹	Commissioning shall be performed as stated in Sections 5.9.2, 6.9.2, 7.9.2, 8.9.2, 9.9.2, 10.9.2, 11.2(d), and G1.2.1(c). Commissioning must utilize ASHRAE/IES Standard 202 or other generally accepted engineering standards acceptable to the building official. FPT and verification requirements for commissioning are as stated in Section 4.2.5.1. Commissioning shall document compliance of the building systems, controls, and building envelope with required provisions of this standard. Commissioning requirements shall be incorporated into the construction documents.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Buildings, additions, or alterations with less than 10,000 ft2 of conditioned space and combined heating, cooling, and service water heating equipment totaling less than 960,000 Btu/h in capacity.

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
_	LSA_250422_Lees Summit		Report date: 09/17/25
Data filename:			Page 2 of 9

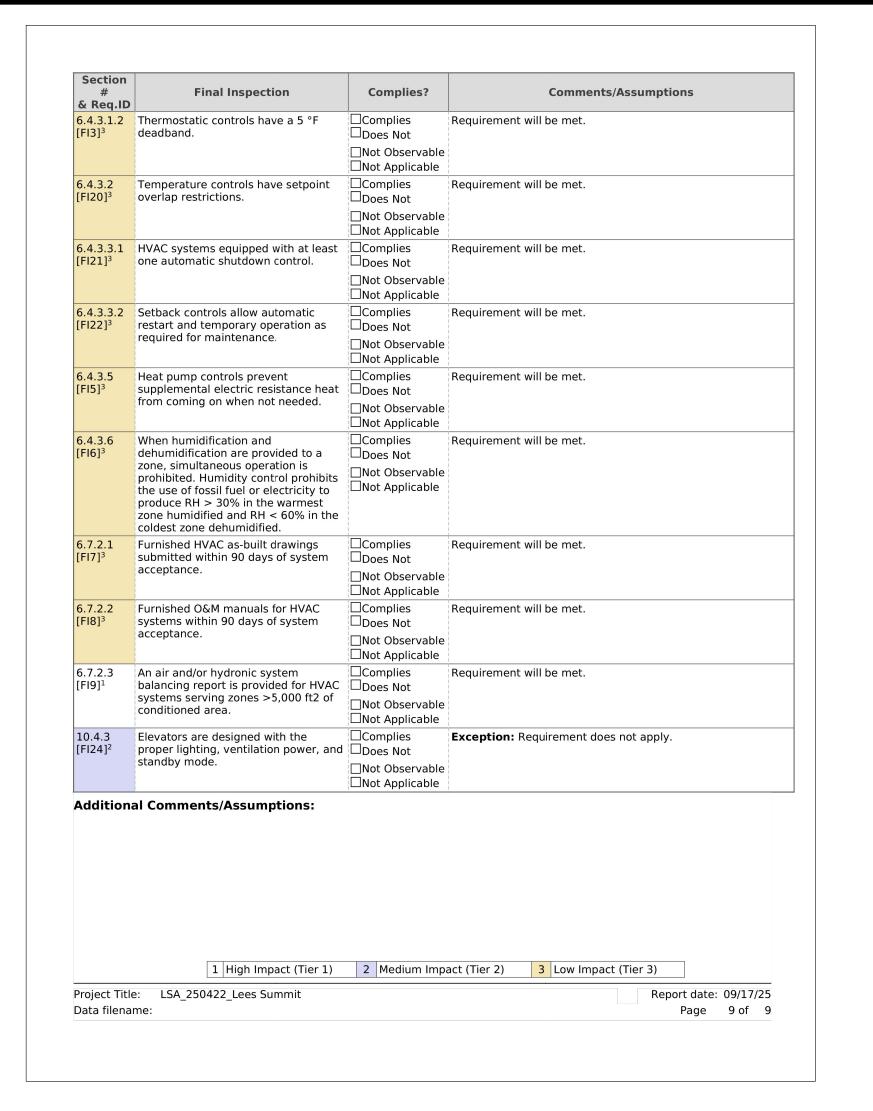
MECHANICAL ENERGY CODE FORMS

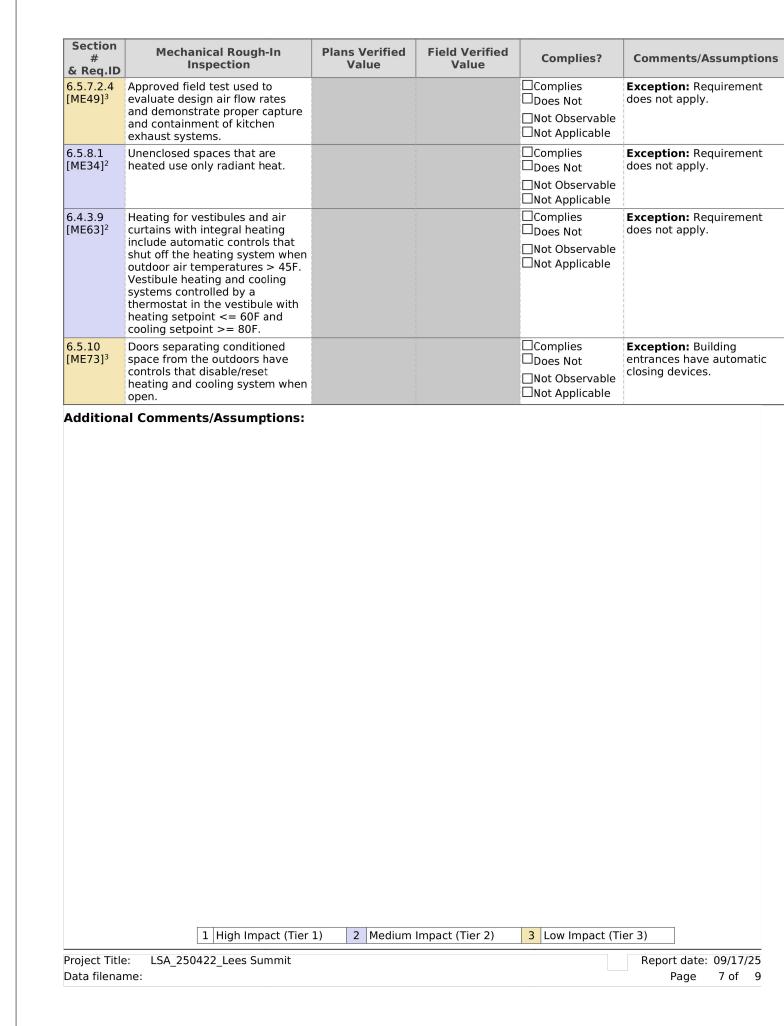
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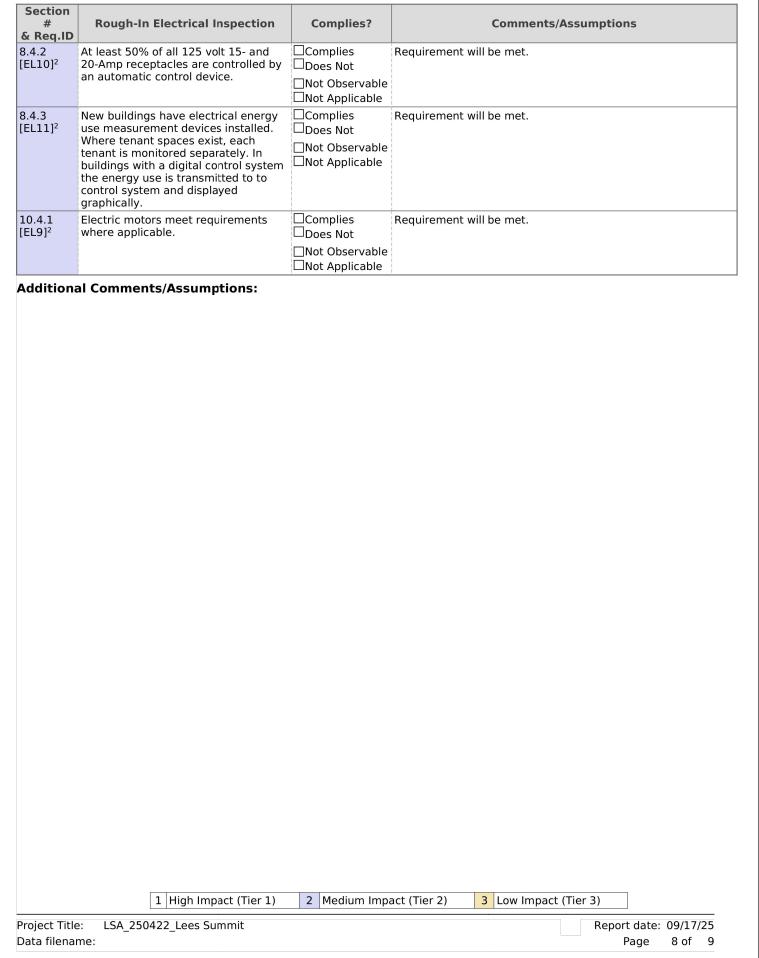
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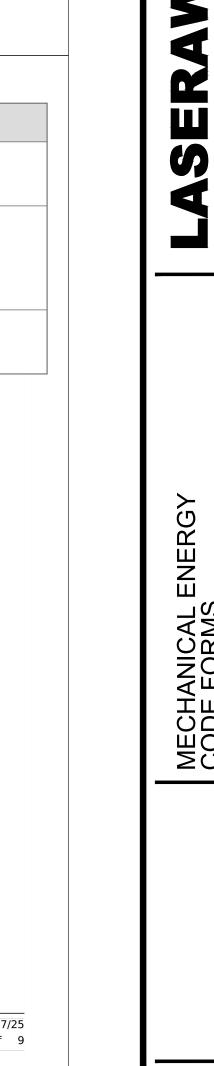
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Page 1 of 9









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