	VENTILATION CALCUL	LATIONS (VMC 20 PEOPLE O/A RATE IN BREATHING ZONE	AREA O/A RATE IN BREATHING ZONE	IDU-1.1 DEFAULT OCCUPANCY DENSITY (PEOPLE/1000 SQ.	EXHAUST AIRFLOW RATE	AREA (SQ. FT.)		ULATED CALCULATE PLE O/A AREA O/A	CALCULATED			MECHANICAL GENERAL I 1. DO NOT SCALE DRAWINGS. SEE ARCHITECTUR
	OCCUPANCY CLASSIFICATION OFFICE SPACES	CFM/PERSON)	CFM/SQ. FT.)	DENSITY (PEOPLE/1000 SQ. FT.) 5	AIRFLOW RATE (CFM/SQ. FT.) 0	AREA (SQ. FT.) 337		PLE O/A AREA O/A CFM) (CFM) 9 20	AREA E/A (CFM)	ENERGY CONSERV COMMERCIAL ENERGY EFFICIENCY		LOCATION OF DOORS, WINDOWS, CEILING DIF 2. ALL COST ASSOCIATED WITH SUBSTITUTED EQ
	TOILET STORAGE ROOMS CORRIDORS	0 0 0	0 0.12 0.06	0 0 0 0 TOTAL	70       0       0       0       0       0       0       0	2 146 266	0 0 0 0	0 0 0 18 0 16 79	140 0 0	C401 METHOD OF COMPLIANCE	COMCHECK PROVIDED (2018 VECC)	PROVIDING MAINTENANCE ACCESS, CLEARAN OTHER SYSTEM COMPONENTS, BUILDING AL BASE BID. NO ADDITIONAL COST ASSOCIATED DURING CONSTRUCTION AND ALL COST WILL
F				ΤΟΤΑ	L OUTSIDE AIR PROVIDED	T	OTAL EXHAUST AIR REQ OTAL EXHAUST AIR PRO	. ,	140 150	<ul> <li>ASHRAE 90.1-2013 PRESCRIPTIVE</li> <li>ASHRAE 90.1-2013 PERFORMANCE</li> <li>N/A (EXISTING LIGHTING, HVAC, AND DOM. WATER HEATING</li> </ul>	COMCHECK PROVIDED (90.1-2013) ENERGY MODELING DATA PROVIDED	CONTRACTOR. THIS INCLUDES ANY MODIFICA ELECTRICAL SYSTEMS REQUIRED BY THIS SPECT 3. ALL DUCTWORK SHALL BE GALVANIZED SHEET SMACNA STANDARDS. ALL SUPPLY, RETURN A
	VENTILATION CALCUL									C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	C406.5 ON-SITE RENEWABLE ENERGY	THICK DUCT WRAP WITH VAPOR BARRIER. INS HAVE A MINIMUM INSTALLED R-VALUE OF 6.0
	OCCUPANCY CLASSIFICATION	PEOPLE O/A RATE IN BREATHING ZONE (CFM/PERSON)	AREA O/A RATE IN BREATHING ZONE (CFM/SQ. FT.)	DEFAULT OCCUPANCY DENSITY (PEOPLE/1000 SQ. FT.)	EXHAUST AIRFLOW RATE (CFM/SQ. FT.)	AREA (SQ. FT.)	OCCUPANCY PEO	ULATED CALCULATE PLE O/A AREA O/A CFM) (CFM)		C406.3 REDUCED LTG DENSITY C406.4 ENHANCED LTG CONTROLS	C406.6 DEDICATED OA SYSTEM C406.7 SERVICE WATER HEATING	4. ALL DUCTWORK SHALL BE SEALED PER THE REC LOW PRESSURE SUPPLY, RETURN, OUTSIDE AIR
	OFFICE SPACES MAIN ENTRY LOBBIES	5	0.06		0 0 OUTSIDE AIR REQ'D (Ez=0		3 6	16         37           29         35           147	0	C301 CLIMATE ZONE 4A - FLOYD COUNTY, VIRGINIA DESIGN CONDITIONS		PRESSURE CLASS, SMACNA SEAL CLASS A, SM 5. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING T COUNTERFLASHED IN A WATERPROOF MANNE
					L OUTSIDE AIR PROVIDED	T	OTAL EXHAUST AIR REQ OTAL EXHAUST AIR PRO		0	EXTERIOR (ASHRAE 90.1-2013 TABLE D-1) winter dry bulb	19.0° F.	6. ALL PIPING AND DUCTWORK LOCATIONS SHAL DIVISIONS OF THE SPECIFICATIONS, TO AVOID
									0	summer dry bulb summer wet bulb INTERIOR (2018 NCECC SECTION C302.1)	89.8° F. 72.4° F.	7. THE MECHANICAL CONTRACTOR SHALL BALAN SPECIFICATIONS INDICATED ON PLANS AND PL
	VENTILATION CALCUL	PEOPLE O/A RATE IN	AREA O/A RATE IN	DEFAULT OCCUPANCY	EXHAUST			ULATED CALCULATE		winter dry bulb summer dry bulb	72° F. 75° F.	COMPLETE TEST AND BALANCE REPORT. THE R TO PROJECT COMPLETION. THE TEST AND BAL
	OCCUPANCY CLASSIFICATION OFFICE SPACES	BREATHING ZONE (CFM/PERSON) 5	BREATHING ZONE (CFM/SQ. FT.) 0.06	DENSITY (PEOPLE/1000 SQ. FT.) 5	AIRFLOW RATE / (CFM/SQ. FT.) 0	AREA (SQ. FT.) 743		PLE O/A         AREA O/A           (FM)         (CFM)           19         45	AREA E/A (CFM)	C403.2 HEATING & COOLING LOADS AND EQUIPMENT & SYSTEM	1 SIZING	BY THE ENGINEER. ANY ADDITIONAL TESTING REQUEST) AFTER REVIEW OF THE INITIAL REPO AND BALANCING CONTRACTOR TO CONFIRM
	MAIN ENTRY LOBBIES	5	0.06	10 TOTAL	0 OUTSIDE AIR REQ'D (Ez=0	133 D.8, CFM)	1	7 8 99	0	BUILDING HEATING LOAD BUILDING COOLING LOAD	252,500 BTUH (peak) 302,500 BTUH (peak)	BEGINNING WORK. THE MECHANICAL CONTRA TEST AND BALANCE REPORT TO BE COMPLETED CONTRACTOR.
E				ΤΟΤΑ	L OUTSIDE AIR PROVIDED	T	OTAL EXHAUST AIR REQ		0	INSTALLED HEATING CAPACITY INSTALLED COOLING CAPACITY	SEE SCHEDULES SEE SCHEDULES	8. UPON PROJECT COMPLETION, THE MECHANIC OWNER INSTALLATION INFORMATION INCLUE
						T	OTAL EXHAUST AIR PRO	VIDED (CFM)	0	C403.2.3 & C406.2 - REQUIRED & INCREASED HVAC EQUIPMENT	PERFORMANCE	COMMENTS ADDRESSED) AND O&M MANUAL OPTIONS, THE NAME AND ADDRESS OF AT LEA
	VENTILATION CALCUL	PEOPLE O/A RATE IN	18, SECT 403):   AREA O/A RATE IN	IDU-2.1 DEFAULT OCCUPANCY	EXHAUST		CALCULATED CALC	ULATED CALCULATE			WITH ELECTRIC AUXILIARY HEAT	AND CALIBRATION INFORMATION INCLUDING OPERATION, AND PROGRAMMED SETPOINTS.
		BREATHING ZONE (CFM/PERSON)	BREATHING ZONE (CFM/SQ. FT.)	DENSITY (PEOPLE/1000 SQ. FT.)	AIRFLOW RATE / (CFM/SQ. FT.)		OCCUPANCY PEO	PLE O/A AREA O/A (CFM) (CFM)	AREA E/A (CFM)	MINIMUM HVAC EQUIP EFFICIENCY COMPLIANCE - TABLE		9. PROVIDE A ONE YEAR WARRANTY FOR ALL WO COMPLETELY OPERATIONAL AND ACCEPTABLE
	TOILET OFFICE SPACES	0 5	0.06		0 OUTSIDE AIR REQ'D (Ez=0 L OUTSIDE AIR PROVIDED		0 3	0 0 15 34 62 100	0	EQUIP TYPE (BTUH) SUBCATEGORY	C403.2.310%MINIMUMINCREASEDDESIGNEFFICIENCY (a)EFF. (a)EFFIC.	<ol> <li>PROVIDE MANUFACTURER'S RECOMMENDED AND FILTER REMOVAL.</li> <li>CONDENSATE DRAIN DIPLOS SUALL DE SCUEDI</li> </ol>
						T	OTAL EXHAUST AIR REQ OTAL EXHAUST AIR PRO		280 300	TABLE C403.2.3(2) - ELECTRICALLY OPERATED UNITARY AND AF         AIR COND,       < 65,000	PLIED HEAT PUMPS 14.0 SEER 15.4 SEER SEE	11. CONDENSATE DRAIN PIPING SHALL BE SCHEDU HANDLING UNITS SHALL BE TRAPPED. CONDEI ARMAFLEX INSULATION. MINIMUM DRAIN SIZ
	VENTILATION CALCUI		18 SECT 403)		· ·					AIR COOLED     (<= 5 TONS)	SCHEDULE	12. ALL REFRIGERANT PIPE SHALL BE NITROGENIZI REFRIGERANT PIPING PER MANUFACTURER'S F
	OCCUPANCY CLASSIFICATION	PEOPLE O/A RATE IN BREATHING ZONE (CFM/PERSON)	AREA O/A RATE IN BREATHING ZONE (CFM/SQ. FT.)	DEFAULT OCCUPANCY DENSITY (PEOPLE/1000 SQ. FT.)	EXHAUST AIRFLOW RATE (CFM/SQ. FT.)	AREA (SQ. FT.)	OCCUPANCY PEO	ULATED CALCULATE PLE O/A AREA O/A FM) (CFM)		C403.4 THRU C403.11 HVAC SYSTEMS ARE FULLY COMPLIANT WITH THE REQUI CONTROL, VENTILATION, ENERGY RECOVERY, DUCT AND SEALING, PIPING INSULATION, AND SYSTEM COMPLETIO	PLENUM INSULATION AND	EXPOSED OUTDOORS SHALL BE COVERED WITH 13. ANY DEVICE REQUIRING A THERMOSTAT FOR G
	OFFICE SPACES	5	0.06	5 TOTAL	0 OUTSIDE AIR REQ'D (Ez=0			50 113 204 250	0	C403.5 - ECONOMIZERS		WHETHER INDICATED ON THE DRAWINGS OR 14. INSTALL THE TOP OF ALL THERMOSTATS, SENS FLOOR. COORDINATE EXACT THERMOSTAT LOO
D						T	OTAL EXHAUST AIR REQ OTAL EXHAUST AIR PRO		0	EXEMPT FROM PROJECT PER EXCEPTION #5 OF C403.5 OF C403.8.1 - AIR SYSTEM DESIGN AND CONTROL	VECC	DEVICE ON A PERIMETER WALL SHALL BE MOU GAPS BETWEEN BOX AND WALL SEALED TO PR 15. CONTRACTOR SHALL VERIFY LOCATION OF ALI
	VENTILATION CALCU	LATIONS (VMC 20	18, SECT 403):	IDU-2.3						ALL FANS INSTALLED ON THE PROJECT ARE 5 HP OR LESS REQUIREMENTS.	AND ARE EXEMPT FROM THESE	TO INSTALLATION.
	OCCUPANCY CLASSIFICATION	PEOPLE O/A RATE IN BREATHING ZONE (CFM/PERSON)	AREA O/A RATE IN BREATHING ZONE (CFM/SQ. FT.)	DEFAULT OCCUPANCY DENSITY (PEOPLE/1000 SQ. FT.)	EXHAUST AIRFLOW RATE (CFM/SQ. FT.)	AREA (SQ. FT.)	OCCUPANCY PEO	ULATED CALCULATE PLE O/A AREA O/A CFM) (CFM)		C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS).	NIMUM EFFICIENCY REQUIREMENTS PER	16. ROOF CURBS SHALL ALLOW A MINIMUM OF 8 INDICATED ON THE DRAWINGS, WHICHEVER IS SUPPORT RAILS THAT SUPPORT EQUIPMENT, P
	CONFERENCE ROOMS STORAGE ROOMS	<u>5</u> 0	0.06 0.12	50 0	0	244 63	13 0	65 15 0 8	0	C405.7, EXCEPT WHERE EXEMPT.		HAVE SUFFICIENT HEIGHT TO MAINTAIN A MIN FOR ROOF MAINTENANCE.
	OFFICE SPACES	5	0.06		0 OUTSIDE AIR REQ'D (Ez=0 L OUTSIDE AIR PROVIDED	D (CFM)	4	20 47 194 200	0	C408 - SYSTEM COMMISSIONING MECHANICAL SYSTEMS AND SERVICE WATER HEATER SYS	STEMS IN THE BUILDIING IS	17. CONTRACTOR SHALL LOCATE EXHAUST FANS, OUTSIDE AIR INTAKE.
							OTAL EXHAUST AIR REQ OTAL EXHAUST AIR PRO		0	LESS THAN 480,000 BTU/H COOLING CAPACITY AND 600, CAPACITY AND IS EXEMPT FROM THE SYSTEM COMMISSI SECTION C408.	000 BTU/H HEATING	<ol> <li>PROVIDE UNIONS, FLANGES OR COUPLINGS AT USE DIRECT WELDED OR THREADED CONNECT</li> <li>PROVIDE NON-CONDUCTING DIELECTRIC UNIC</li> </ol>
										MECHANICAL D	UCT SYMBOLS	20. ALL BALANCING DAMPERS, INDOOR UNITS, CO INSTALLED WITHIN 18" OF THE CEILING FOR SE THE CEILING GRID.
										SYMBOL     DESCRIPTION       16x8     SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)		21. DUCTWORK AND PIPING PASSING THROUGH/A COORDINATED WITH THE ELECTRICAL CONTRA
										16"Ø     ROUND DUCT SIZE TAG (DIAMETER)		ABOVE ELECTRICAL PANELS. 22. EQUIPMENT OPERATED DURING CONSTRUCTION
C										SUPPLY AIR DIFFUSER (4-WAY)           RETURN AIR GRILLE		CONSTRUCTION DEBRIS FROM ENTERING COIL COMPLETION OF CONSTRUCTION, MECHANIC/ CONTROL DEVICES WIDE OPEN AND REMOVE
										EXHAUST AIR GRILLE		MECHANICAL CONTRACTOR SHALL REPLACE CONSTRUCTION. ANY DUCTWORK, AIR TERM FILTRATION SHALL BE CLEANED THOROUGHLY
										M.C. MECHANICAL CONTRACTOR		OWNER.
										E.C. ELECTRICAL CONTRACTOR P.C. PLUMBING CONTRACTOR		23. MECHANICAL CONTRACTOR SHALL PROVIDE P LETTERING INDICATING SERVICE AND FLOW D PLENUM SHALL BE LISTED/APPROVED FOR USE
										AFF ABOVE FINISHED FLOOR		EXISTING FACILITIES STANDARD (IF APPLICAB FOLLOWING: REFRIGERANT PIPING: YELLOW BACKGRO
										DN DOWN UP UP		24. ALL MECHANICAL EQUIPMENT SHALL BE U.L. LI THROUGH INDIVIDUAL COMPONENTS OR PAR
										MECHANICAL ACCESSOR		SERVICES AS REQUIRED TO COMPLY.
										SYMBOL DESC		
										THERMOSTAT / TEMP SENSOR (4'-0" AFF TO TOP)		MECHANIC SHEET NUMBER
										SWITCH (4'-0" AFF TO TOP)		M001 MECHANICAL LEGEND A M002 MECHANICAL SCHEDULI
В											ACTOR. CUTTING OF DUCT, INSTALLATION OF BE LENGTH SHALL BE THE MECHANICAL CONTRACTOR.	M101 MECHANICAL FLOOR PL M102 MECHANICAL FLOOR PL M103 MECHANICAL ROOF PLA
										PROVIDE REMOTE INDICATING LIGHT WITH EACH D RECTANGULAR DUCT MOUNTED MOTOR OPERATED (DAMPER BY M.C.)	ETECTOR.	M501 MECHANICAL DETAILS
										UNDERCUT DOOR (BY G.C.)		
										EQUIVALENT MANUFA	CTURERS LISTING	
										LISTING OF MANUFACTURER'S NAME DOES NOT GUARANTEE OR EXCEED QUALITY AND CAPACITIES OF SPECIFIED EQUIPME EQUIPMENT SUBMITTALS. ANY MANUFACTURER NOT LISTED I	NT. FINAL APPROVAL WILL BE BASED ON BUT WISHING TO BID THIS PROJECT SHALL	
										SUBMIT A WRITTEN REQUEST A MINIMUM OF 7 DAYS PRIOR T SPECIFICATIONS, PRIOR APPROVAL IS REQUIRED FOR ALL MAN		
										(ALPHABETICAL ORDER) <u>AIR DISTRIBUTION:</u> CARNES, KRUEGER, METAL*AIRE, NAILOR, <u>DUCTED SPLIT SYSTEMS:</u> CARRIER, DAIKIN, LENNOX, TRANE		
										DUCTLESS SPLIT SYSTEMS: CARRIER, DAIKIN, MITSUBISHI, TRA <u>ELECTRIC WALL/UNIT HEATERS:</u> BERKO, MARKEL, MODINE, QM <u>FANS:</u> COOK, GREENHECK, PENN, TWIN CITY		
A										LOUVER: GREENHECK, POTTORFF, RUSKIN, SAFE-AIR <u>NOTE:</u>		
										ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO CO PROVIDING MAINTENANCE ACCESS, CLEARANCE, PIPING, SHE COMPONENTS, BUILDING ALTERATIONS, ETC., SHALL BE INCLU	ET METAL, ELECTRICAL, REPLACEMENT OF SYSTEM JDED IN THE ORIGINAL BASE BID. NO ADDITIONAL	
										COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE A WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACT		
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SYMBOL	
16x8	SQUAR
16"Ø	ROUNE
$\boxtimes$	SUPPLY
	RETUR
$\square$	EXHAU
M.C.	MECHA
E.C.	ELECTR
P.C.	PLUMB
AFF	ABOVE
DN	DOWN
UP	UP
	ИЕС

P	<b>VIEC</b>
SYMBOL	
T	THERM
S	SWITCH
	RECTAI CONTR DETECI PROVIE
	RECTAI (DAMP
	UNDER

- N 

# NOTES

RAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT IFFUSERS, ETC.

- QUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING NCE, PIPING, SHEET METAL, ELECTRICAL, REPLACEMENT OF LTERATIONS, ETC., SHALL BE INCLUDED IN THE ORIGINAL D WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED L BE THE RESPONSIBILITY OF THE MECHANICAL CATIONS TO ANY ASSOCIATED MECHANICAL, PLUMBING, OR CIFIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- T METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" SULATION (INCLUDING FLEXIBLE DUCT INSULATION) SHALL ). DUCT DIMENSIONS ON PLANS ARE FREE AREA SIZE.
- EQUIREMENTS OF THE VIRGINIA MECHANICAL CODE. SEAL R, AND EXHAUST DUCTWORK FOR POSITIVE/NEGATIVE 2" MACNA LEAKAGE CLASS 4.
- THROUGH WALLS AND ROOF SHALL BE FLASHED AND JFR
- ALL BE COORDINATED WITH THE WORK UNDER OTHER D INTERFERENCE.
- ANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE PROVIDE THE ENGINEER WITH A DIGITAL COPY OF A REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR ALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL , ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S PORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TESTING M FILTERS ARE CLEAN, AND FREE OF DEBRIS PRIOR TO RACTOR SHALL REPLACE ANY DIRTY FILTERS, AS NEEDED. ED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE
- ICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE JDING RECORD SUBMITTALS (WITH ANY SUBMITTAL REVIEW LS FOR EACH PIECE OF EQUIPMENT INCLUDING ALL SELECTED EAST ONE SERVICE AGENCY, FULL CONTROL SYSTEM O&M G WIRING DIAGRAMS, SCHEMATICS, FULL SEQUENCE OF
- ORK PERFORMED BEGINNING ON THE DAY THE SYSTEM IS LE BY THE OWNER.
- D CLEARANCES AROUND ALL EQUIPMENT FOR MAINTENANCE
- OULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR ENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK ZE SHALL BE 3/4".
- ZED ACR COPPER TUBE. SIZE, INSULATE, AND INSTALL S RECOMMENDATIONS. REFRIGERANT PIPING INSULATION TH AN OUTER ALUMINUM JACKET.
- CONTROL SHALL BE FURNISHED WITH A THERMOSTAT NOT.
- ISORS, AND SWITCHES AT 4'-0" (MAXIMUM) ABOVE FINISH OCATION WITH OWNER PRIOR TO INSTALLATION. ANY OUNTED ON A FOAM-FILLED ELECTRICAL BOX, WITH ALL REVENT INFILTRATION.
- L ROOF PENETRATIONS WITH ARCHITECT & OWNER PRIOR
- ABOVE ROOF INSULATION FOR FLASHING, OR AS IS GREATER. IN ADDITION, ALL ROOF CURBS OR EQUIPMENT , PIPING, CONDUIT, ETC. EXPOSED ON THE ROOF SHALL INIMUM OF 18" CLEARANCE BELOW SUPPORTED EQUIPMENT
- S, OUTLETS, AND GAS FLUES A MINIMUM OF 10'-0" FROM ANY
- T CONNECTION TO ALL VALVES AND EQUIPMENT. DO NOT CTIONS TO VALVES, EQUIPMENT OR OTHER APPARATUS.
- NONS WHENEVER CONNECTING DISSIMILAR METALS.
- CONTROLS, ETC. REQUIRING ACCESS AND SERVICE SHALL BE SERVICE ACCESSIBILITY. LOCATIONS SHALL BE INDICATED ON
- ABOVE ELECTRICAL ROOMS SHALL BE CLOSELY RACTOR. DUCTWORK OR PIPING <u>SHALL NOT</u> BE LOCATED
- TION SHALL USE FILTERED MEDIA TO PREVENT DILS, DUCTWORK SYSTEMS, AIR TERMINALS ETC. AT CAL CONTRACTOR SHALL CLEAN ALL SYSTEMS WITH ALL E ANY REMAINING DEBRIS PRIOR TO TEST AND BALANCING. E ALL FILTRATION WITH NEW FILTERS AT COMPLETION OF MINALS, AND/OR OTHER EQUIPMENT UPSTREAM OF Y OF CONSTRUCTION DEBRIS BEFORE HANDING OVER TO
- PRE-PRINTED COLOR-CODED PIPE LABELS WITH 1-1/2" HIGH DIRECTION. PLASTIC PIPE LABELS UTILIZED IN A RETURN AIR SE IN A RETURN AIR PLENUM. ALL PIPING TO MATCH ABLE). OTHERWISE, PIPE LABELS SHALL MATCH THE ROUD, BLACK LETTERING
- LISTED AND LABELED AS A COMPLETE PACKAGE, NOT ARTS. PROVIDE REQUIRED 3RD PARTY FIELD UL LISTING

	MECHANICAL SHEET INDEX
SHEET NUMBER	SHEET NAME
M001	MECHANICAL LEGEND AND NOTES
M002	MECHANICAL SCHEDULES
M101	MECHANICAL FLOOR PLANS - LEVEL 01
M102	MECHANICAL FLOOR PLANS - LEVEL 02
M103	MECHANICAL ROOF PLAN
M501	MECHANICAL DETAILS

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	NOMINAL	SUPPLY AIR			
SYMBOL	TONNAGE	FLOW (CFM)	O.A. CFM	E.S.P. "/WG	Т
IDU-1.1	2	800	100	0.5	
IDU-1.2	3	1200	150	0.5	
IDU-1.3	3	1200	100	0.5	
IDU-2.1	3	1200	330	0.5	
IDU-2.2	4	1600	130	0.5	
IDU-2.3	4	1600	160	0.5	

**INDOOR UNIT NOTES:** 

1.	COOLING CAPACITY BASED ON 80°/67° ENTERING AIR.
2	DROVIDE LINUTS WITH MANUEACTUREDS DROCRAMMA

- 2. PROVIDE UNITS WITH: MANUFACTURERS PROGRAMMAB 3. PROVIDE EACH UNIT WITH A PHOTOELECTRIC TYPE SMOK
- ALARM SYSTEM AND UNIT SHUTDOWN BY THE ELECTRIC 4. ELECTRIC AUXILIARY HEAT LISTED FOR ALL UNITS IS NOMI

		ELECTR	IC WALL	. HEAT
ID	LOCATION	CFM	BTUH	KW
EWH-1	STAIRS 103	175	5120	1.5
EWH-2	STAIRS 104	175	5120	1.5

- NOTES: 1. HEATING CAPACITY BASED ON 65° F E.A.T.
- 2. SEE PLANS FOR TYPE OF THERMOSTAT REQUIRED (WALL MOUNTED OR UNIT MOUN SHOWN WITHOUT THERMOSTAT INDICATED SHALL BE PROVIDED WITH A UNIT MOU 3. SET TO MAINTAIN 45°F.

# SEQUENCE OF OPEF

# DUCTED SPLIT SYSTEMS:

UNIT SHALL BE CONTROLLED BY ITS ELECTRONIC F SHALL RUN CONTINUOUSLY DURING OCCUPIED M COMPRESSOR AND CONDENSER FAN SHALL ACTIV IN SPACE TEMPERATURE, UNIT COMPRESSOR SHAL HEATING. UPON A FURTHER DROP IN SPACE TEMP STAGES TO SATISFY SPACE TEMPERATURE. THERM WITHIN WHICH THE SUPPLY OF HEATING OR COOL THE MINIMUM. THERMOSTATS SHALL BE SET FOR MODE AND COOLING 85°, HEATING 60° DURING U AND SCHEDULES SHALL BE VERIFIED BY THE OWNE SHALL BE PROGRAMMED BY MECHANICAL CONTRA REPRESENTATIVE PRIOR TO PROJECT COMPLETION

UNIT SHALL BE PROVIDED WITH COMBINATION TH PROVIDE DEHUMIDIFICATION SEQUENCE. WHEN SI SHALL ENTER DEHUMIDIFICATION MODE. INDOOR SPEED AND OUTDOOR UNIT COMPRESSOR AND CO UNTIL SPACE RH FALLS BELOW 55% RH (ADJ). DEH TO EQUIPMENT.

UNITS IDU-1.3 AND IDU-2.3 SHALL BE PROVIDED V SHOWN ON PLANS. THERMOSTAT AND TEMPERAT DETERMINE SPACE HEATING/COOLING DEMAND O

# DUCTLESS SPLIT SYSTEMS:

UNIT SHALL BE CONTROLLED BY ITS ELECTRONIC F SHALL RUN CYCLE WITH COMPRESSOR HEATING/C TEMPERATURE, UNIT COMPRESSOR AND CONDENS UPON A DROP IN SPACE TEMPERATURE, UNIT COM HEATING. THERMOSTATS SHALL PROVIDE A DEAD HEATING OR COOLING ENERGY TO THE ZONE CAN SHALL BE SET FOR COOLING 75°F, HEATING 70°F. SHALL BE VERIFIED BY THE OWNER PRIOR TO PROC PROGRAMMED BY MECHANICAL CONTRACTOR IN PRIOR TO PROJECT COMPLETION. UNIT SHALL BE

### VAV DIFFUSERS:

VAV DIFFUSERS SHALL BE PROVIDED IN LOCATION VAV DIFFUSERS SHALL BE PROVIDED WITH WALL N DIGITAL DISPLAY AND SETPOINT ADJUSTEMENT. PROVIDED WITH MASTER CONTROLLER AND ALL C WITH DRONE CONTROLLER TO MIRROR THE MAST

WHEN THE MAIN SYSTEM IS IN COOLING MODE: UPON A CALL FOR COOLING FROM THE MASTER CO OPEN TO PROVIDE COOLING AIRFLOW TO THE SPA MODULATE CLOSED. UPON A CALL FOR HEATING N DIFFUSER SHALL REMAIN CLOSED.

WHEN THE MAIN SYSTEM IS IN HEATING MODE: UPON A CALL FOR HEATING FROM THE MASTER C OPEN TO PROVIDE HEATING AIRFLOW TO THE SPA MODULATE CLOSED. UPON A CALL FOR COOLING M DIFFUSER SHALL REMAIN CLOSED.

EXHAUST FANS: EXHAUST FANS SHALL OPERATE AS INDICATED ON

## ELECTRIC WALL HEATERS

ELECTRIC WALL HEATERS SHALL BE PROVIDED WITH SPACE TEMPERATURE DROPS BELOW 45°F (ADJ).

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В

	V	ARIABI	E SPEE	D IN			INIT	SCH	FDU	IF											
	• •	HEATING																			
	CAPACITY SHC (BTUH)	CAPACITY (BTUH)	ELECTRIC AUX KW	XILIARY HI		AN MOTOF	R MCA		CAL DATA VOLTAG	E PHASE	MANUF	. M	IODEL	WEIGHT	REFRIGERA TYPE		MATCHIN OUTDOOR	-		ID	N T
3300 2400	18100 24200	24000 35800	9.0 9.0	2		2.8 A 4.2 A	32.0 32.0		208 V 208 V	3	CARRIE		ANF002 ANF003	135 150	R-410A R-410A		ODU-1. ODU-1.2			HP-1.1 HP-1.2	-
2400	24200	35800	9.0	2		4.2 A	32.0	35.0	208 V	3	CARRIE	R FE4	ANF003	150	R-410A		ODU-1.3	3		HP-1.3	<u> </u>
2400 5800	24200 35500	35800 46500	9.0 15.0	2		4.2 A 4.3 A	32.0 47.7	35.0 50.0	208 V 208 V	3	CARRIEF CARRIEF		ANF003 ANF005	150 172	R-410A R-410A		ODU-2. ODU-2.			HP-2.1 HP-2.2	
5800	35500	46500	15.0	2		4.3 A	47.7	50.0	208 V	3	CARRIE	R FE4	ANF005	172	R-410A		ODU-2.	3	-	HP-2.3	
KE DETE AL CON	CTOR, INSTAI TRACTOR. SI	LLED IN THE R	DISPOSABLE F ETURN DUCT \ OR SHALL BE II CAL POWER.	WIRED TO	SHUT	DOWN TH	E UNIT U	ΡΟΝ ΑΟΤΙ	VATION.	SMOKE D	ETECTOR SH									3 4 5	. / . / . / . / . / . / . / . / . / . /
ER S	CHEDI	ULE									DUCTI	ESS	SPLI	ТСО	NDEN			IT SO		EDUL	.E
N VO		MANUFACTUR (MARKEL)	ER	ACCESS	SORIES			ID		COOLING	1	1	COMPRE RLA		ELE ICA MC		L DATA VOLTAGE	PHASE	MAN	UFACTURE	R
120 120		E3323TD-RP E3323TD-RP		A,B,C A,B,C	-			ODU-1 ODU-2		0900 0900	135		8.5 8.5		3.7 1 3.7 1		208 V 208 V	1		DAIKIN DAIKIN	_
120	VI				-		┥┝	000-2		0900	155	00	0.5	C	<b>5.7</b>   1.	5	200 V		<b>I</b>	DAININ	
	JNIT HEATER THERMOSTA		B. BUILT IN T C. WALL MOI D. WALL MOI E. CEILING M F. RADIAL DI G. PENCIL PR H. CABINET F	UNTED TH UNTING B IOUNTED ISCHARGE	HERMO BRACKE BRACKE LOUV VERS	ETS KETS ER		<ol> <li>2. COO</li> <li>3. MO</li> <li>4. PRO</li> <li>5. PRO</li> <li>THE</li> <li>6. PRO</li> <li>7. SEE</li> <li>8. THE</li> <li>CON</li> </ol>	DLING CA UNT UNI DVIDE MA DVIDE UN RMOSTA DVIDE OU MANUFA POWER S NDENSING	PACITIES / IS ON ROO NUFACTU ITS WITH I T, NON-LC TDOOR UI CTURER'S SUPPLY TC G UNIT AN	OF ON EQUIF RER'S SUGG MANUFACTU OCKING DISC NITS WITH 6 RECOMMEN O CONDENSI ID FROM TH	IN 95° AM IMENT SU ESTED CLE JRER'S WI ONNECT VEAR EXT IDATIONS NG UNIT I E CONDEN	BIENT, 80 PPORT RA ARANCES ND BAFFL FOR INDC ENDED C FOR REC S A SING ISING UN	D° ENTERIN AILS AS MF S AROUND LES OR LOV OOR UNIT. OMPRESSO QUIRED AD LE POINT E IIT TO THE	ig air dry e Fg. by roof	PRODU CONTRO TY. EFRIGEF CONNEG	JCTS AND S OLS FOR OF RANT CHAR CTION FOR NG CODE RI	ERVICE CO PERATION GE AND R THE SYST EQUIRED I	orp. (( I dow Recom Tem (A, Disco	OR EQUAI 'N TO 0° F, IMENDED /C UNIT A NNECT SV	_). CO LIN ND VITC
RAT	ION						GRII	LES.	RFG	ISTE	RS AN	D DI	FFUS	FRS	SCHE	וווכ	F				
					1		SERVICE		1 RANGE			NECK SIZ		ТҮРЕ	ОВІ		PRICI	<u> </u>			
							SUPPLY SUPPLY	-	PLANS - 125		PLANS x 1 2	SEE PLAN 6 x 6		UBLE DEFL OUVERED	YES NC		520 SMD		<u> </u>	ID EF-1.1	
			NIT SUPPLY FA IPERATURE, UN			c :	SUPPLY SUPPLY	130	0 - 285 0 - 500	24	x 24 x 24	9 x 9 12 x 12	L	OUVERED	NC	)	SMD		E	EF-1.2 EF-1.3	
VATE IN	STAGES TO S	SATISFY SPACE	E. UPON A DRO			E I	RETURN	SEE	PLANS	SEE F	PLANS	SEE PLAN		PERF.	NC	)	10		E	EF-2.1	
IPERATU	RE, ELECTRIC		BE ENERGIZED	IN			RETURN RETURN		- 175 0 - 275		x 24 x 24	8"Ø 10"Ø		PERF. PERF.	NC NC		PDDF PDDF			F-2.2	
		VIDE A DEADE E ZONE CAN E	BAND OF 5°, BE REDUCED TO	o I			RETURN SUPPLY	-	0 - 400 5 - 210		x 24 x 24	12"Ø 8"Ø		PERF. V DIFFUSEF			PDDF ACCUTH		<u>EX</u>	HAUST FA	<u>N S</u>
			NG OCCUPIED				SUPPLI		5 - 210	24	X 24	00	VA	v Dirruser		,	ACCOTH			A. DISCO B. GRAVI	
		AMMING. TH						LII	NEAF	r slc	)T DIF	FUSE	R SC	CHED	ULE					. HANG D. EXHAL	
N.					1				1 RANGE D-125	DIFFUS	ER LENGTH 2'	SLOT QT 2		WIDTH	TYPE	т	PRICE SDS			. SPEED	
			HAVE ABILITY 6 RH (ADJ), UN			-	SUPPLY		)-200		2 4'	2			LINEAR SLO		SDS				
R UNIT S	SUPPLY FAN S	SHALL TURN D	OWN TO LOW	/	1.	ALL CEIL	ING AND	WALL MC	OUNTED D	EVICES SH	HALL BE FUR	NISHED W	ITH A FIN	IISH SELEC	TED BY ARCI	HITECT.					
			L BE INTEGRAI		2.	ALL DEV	ICES SHA	LL BE FURI	NISHED V	VITH FRAN	IES SUITABL	E FOR TYP	E INSTAL	LATION RE	QUIRED.				<u>EX</u>	HAUST FA	<u>N S</u>
	NSOR READI	EMPERATURE	SENSOR AS AVERAGED TO	D	3. ALL LINEAR SLOT DIFFUSERS SHALL BE PROVIDED WITH FULL SIZE INSULATED PLENUM EQUAL TO PRICE MODEL "SDB". ALL INLETS TO SUPPLY DIFFUSER PLENUMS SHALL BE PROVIDED WITH CABLED OPERATED DAMPER (PRICE VCR8EC OR EQUAL). CABLE DAMPER OPERATOR SHALL BE ACCESSIBLE FROM DIFFUSER PLENUM (NO ACCESS DOOR REQUIRED)										2	. ALL FA LEVEL. 2. ALL FA 3. ALL SP	NS				
COOLIN NSER FAI MPRESS DBAND N BE REE ALL TEM OGRAMM N THE PR	G CYCLES. UN N SHALL ACT OR SHALL ACT OF 5°, WITHI DUCED TO TH IPERATURE S ING. THERM	ERMOSTAT. U PON A RISE IN IVATE TO SAT TIVATE IN RE' N WHICH THE IE MINIMUM. SETPOINTS AN MOSTATS SHAI DWNER'S REPP		INDICAT OTHERW GRILLES VOLUME WIDE OF DIFFUSE	ed by FL Vise on F Marked Diffuse Pen in El' Rs with	OW ARRO PLANS. "TF" SHAL ERS). BALA THER HEAT MASTER C	WS ON P LL BE SQU NCE AIR TING OR ( CONTROL	LANS. DA JARE THER QUANTITY COOLING LER AND A	MPERS SHAL MA-FUSERS Y TO DELIVEF MODE. PRC	L BE ADJU (ACUTHEI R LISTED C VIDE ONE IFFUSERS	ISTED TO RM MODI FM AS A DIFFUSE IN ROOM	A 30 DEGF EL ADV MC MAXIMUM R IN EACH I WITH DR	PROVIDE AIR REE POSITION DTORIZED VA 1 WHEN GRII ROOM SERV ONE CONTRO	N UNLE RIABLE LE BLA /ED BY	SS NOTED AIR DES ARE VAV						
MOUNT ONE DIF OTHER I TER. CONTRO ACE. WH MAIN S	ED THERMOS FUERSUER IN DIFFUSERS IN LLER, THE VA IEN SETPOIN YSTEM IS IN O	STAT CONTRO I EACH ROOM I ROOM WILL I NV DIFFUSER S T IS MET, VAV COOLING MOI	WILL BE BE PROVIDED HALL MODULA DIFFUSER SHA DE, THE VAV HALL MODULA DIFFUSER SHA	ATE ALL																	
TH INTE	RNAL THERM	IOSTATS AND	ENERGIZE WH	EN																	

### VARIABLE SPEED HEAT PUMP SCHEDULE (AIR COOLED)

				•							• V			/			
	COOLING	g coil	IL EFFICIENCY		HEATNG	EFFICIENCY	COMPRESSOR	FAN	ELECTRICAL DATA								
IOMINAL		SHC			CAPACITY												MAT
ONNAGE	TC (BTUH)	(BTUH)	EER2	SEER2	(BTUH)	HSPF	RLA	FLA	MCA	FUSE	VOLTAGE	PH	REFRIG. TYPE	MANUFACTURER	MANUFACTURER	WEIGHT	
2	23300	18100	13.5	21	24000	10.5	12.4	0.9	16.4	25.0	208 V	1	R-410A	CARRIER	25VNA424	300 lb	
3	32400	24200	12	19.5	35800	8	13.7	0.9	18.0	30.0	208 V	1	R-410A	CARRIER	25VNA436	370 lb	
3	32400	24200	12	19.5	35800	8	13.7	0.9	18.0	30.0	208 V	1	R-410A	CARRIER	25VNA436	370 lb	
3	32400	24200	12	19.5	35800	8	13.7	0.9	18.0	30.0	208 V	1	R-410A	CARRIER	25VNA436	370 lb	
4	45800	35500	12.3	22	46500	8.5	21.8	1.2	27.4	40.0	208 V	1	R-410A	CARRIER	25VNA448	400 lb	
4	45800	35500	12.3	22	46500	8.5	21.8	1.2	27.4	40.0	208 V	1	R-410A	CARRIER	25VNA448	400 lb	

COOLING CAPACITY @ 95 AMBIENT. ALL UNITS SHALL BE U.L. LISTED AND HAVE A MINIMUM SEER2 OF 14.3.

HEAT PUMP SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL BE PROVIDED WITH CONTROLS TO PREVENT OPERATION WHEN THE REVERSE CYCLE HEAT CAN MEET HEATING LOAD. SUPPLEMENTAL ELECTRIC HEAT SHALL BE ALLOWED TO OPERATE DURING HEAT PUMP DEFROST CYCLE. SUPPLEMENTAL ELECTRIC HEAT SHALL BE LOCKED OUT WHEN THE OUTDOOR TEMPERATURE IS BETWEEN 35°F AND 40°F AND THE INDOOR TEMPERATURE SETPOINT IS INCREASED.

PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND UNITS. PROVIDE UNITS WITH CONDENSER COIL HAIL GUARDS AND LOW AMBIENT CONTROLS.

FOR REFRIGERANT LINE APPLICATIONS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL DEVICES REQUIRED BY MANUFACTURE TO ACHIEVE LONG LENGTH INSTALLATION. MECHANICAL CONTRACTOR & UNIT MANUFACTURER ARE TO REVIEW INSTALLATION, AND FOLLOW MANUFACTURER'S

RECOMMENDATIONS FOR LONG REFRIGERANT LINE APPLICATIONS (AS DEFINED BY UNIT MFGR). LONG REFRIGERANT LINESETS SHALL BE SIZED TO LIMIT CAPACITY REDUCTION OF HEAT PUMP BY LESS THAN 5%.

					DUC	CTLE	SS SPL	IT IN	DOOR UN	IT SCHED	ULE		
				TOTAL COOLING	HEATING CAPACITY	EL	ECTRICAL DAT	A			UNIT	MAXIMUM PIPING	IN.
MODEL NO.	WEIGHT	ID	CFM	CAPCAITY (BTUH)	(BTUH)	MCA	VOLTAGE	PHASE	MANUFACTURER	MODEL NO.	WEIGHT	LENGTHS	
RX12AXVJU	64 lb	A/C-1.1	430	10900	13500	0.4	208 V	1	DAIKIN	FTX12AXVJU	22 lb	49' VERT.   65' TOTAL	
RX12AXVJU	64 lb	A/C-1.2	430	10900	13500	0.4	208 V	1	DAIKIN	FTX12AXVJU	22 lb	49' VERT.   65' TOTAL	

S INDICATED ARE AT 'HIGH' SPEED.

ONDENSATE PUMP, INVERTER COMPRESSOR, 7-DAY PROGRAMMABLE HARD WIRED

NE-SET LENGTHS.

### CONDENSING UNIT). THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE CHES.

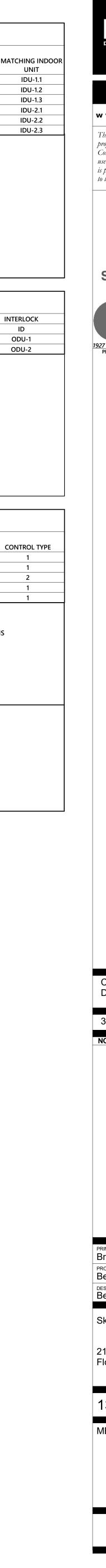
NY EXPOSED PIPING SHALL BE PAINTED TO MATCH WALL-FINISH.

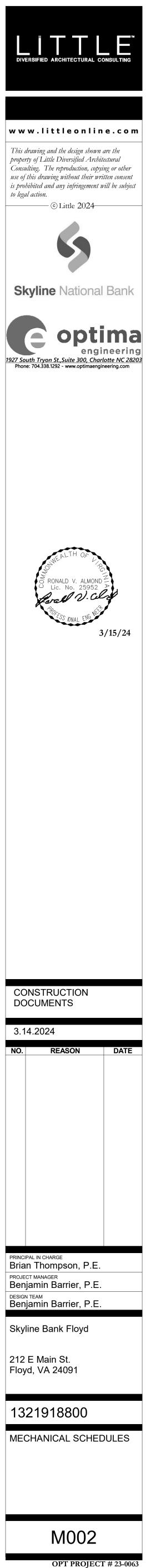
				E	XHAUS	ST FAN	N SCH	EDULE					
			APPROX.			ELECTRICAL DATA							
LOCATION	ТҮРЕ	CFM	ESP	DRIVE TYPE	FAN RPM	WATTS	HP	VOLTAGE	PH	MANUFACTURER	MODEL	ACCESSORIES	со
RR112	EXHAUST	75	0.250	DIRECT	880	14	0 hp	120 V	1	GREENHECK	SP-A90	A,B,C,D,E	
RR113	EXHAUST	75	0.250	DIRECT	880	14	0 hp	120 V	1	GREENHECK	SP-A90	A,B,C,D,E	
JANITORS 114	EXHAUST	75	0.250	DIRECT	880	14	0 hp	120 V	1	GREENHECK	SP-A90	A,B,C,D,E	
WOMENS 211	EXHAUST	150	0.250	DIRECT	715	26	0 hp	120 V	1	GREENHECK	SP-A200	A,B,C,D,E	
<b>MENS 212</b>	EXHAUST	150	0.250	DIRECT	715	26	0 hp	120 V	1	GREENHECK	SP-A200	A,B,C,D,E	
CHEDULE ACCESSORIES: ECT SWITCH BACKDRAFT DAMPER BRACKETS WITH VIBRATION GRILLE NTROLLER	N ISOLATION					EX	1. INT SER	VED BY FAN)	OOM LI			N LIGHT IS ON IF ANY RO	om is

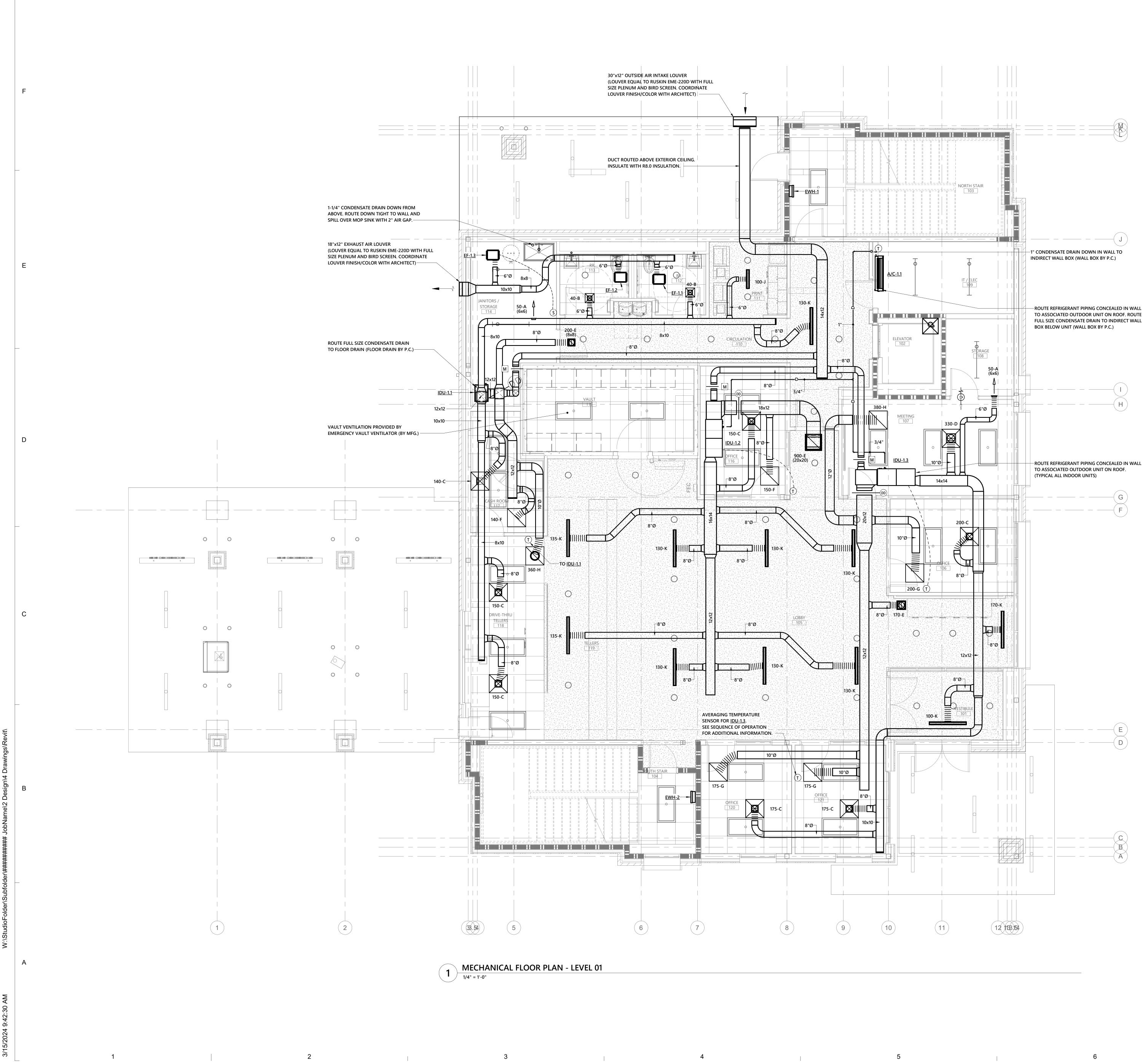
SCHEDULE NOTES:

S SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED FOR SOUND AND AIR FLOW. ALL FANS INSTALLED INSIDE, ABOVE, OR ADJACENT TO OCCUPIED SPACES SHALL HAVE A MAXIMUM 9.0 INLET SONE

S SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE. D CONTROLLERS SHALL BE DIAL TYPE AND MOUNTED DIRECTLY ON FAN.

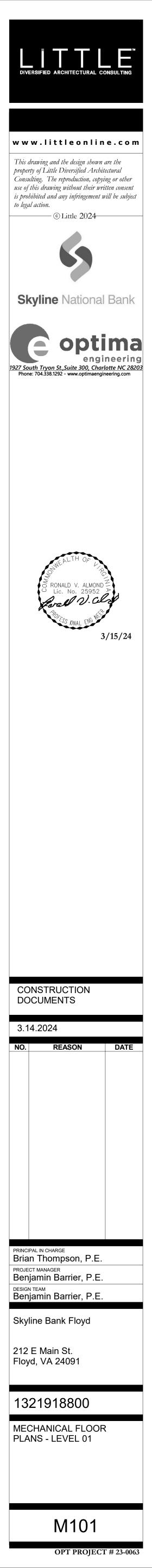






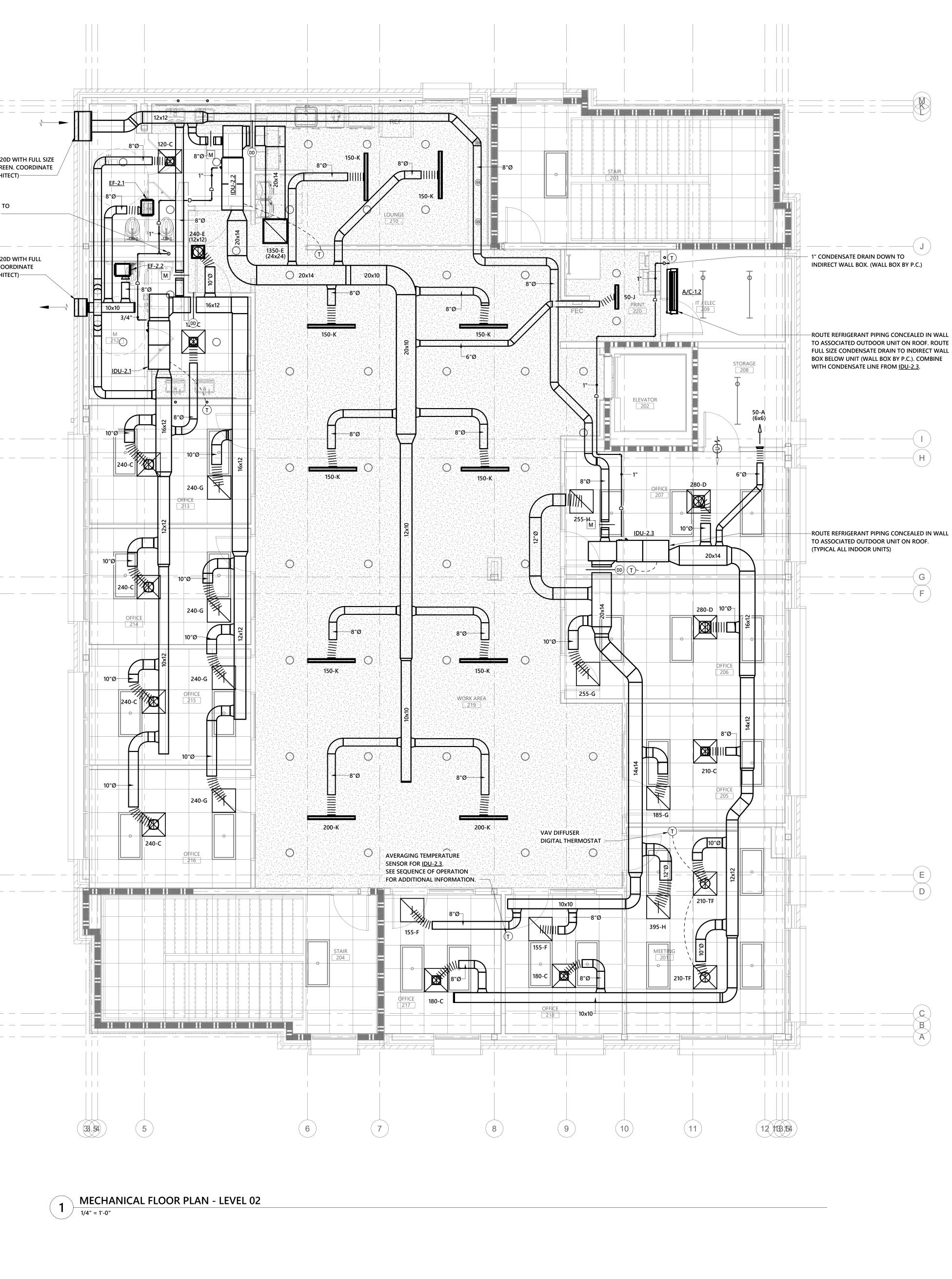
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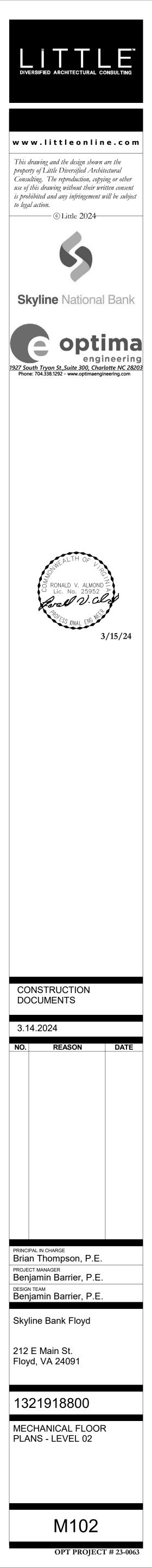
				I
	F			
			30"x18" OUTSIDE AIR LOUVER (LOUVER EQUAL TO RUSKIN EM	
			INSULATED PLENUM AND BIRD LOUVER FINISH/COLOR WITH A	
			1-1/4" CONDENSATE DRAIN DO BELOW WITHIN PLUMBING CHA	
			18"x12" EXHAUST AIR LOUVER	
			(LOUVER EQUAL TO RUSKIN EM SIZE PLENUM AND BIRD SCREEN LOUVER FINISH/COLOR WITH A	I. COORDIN
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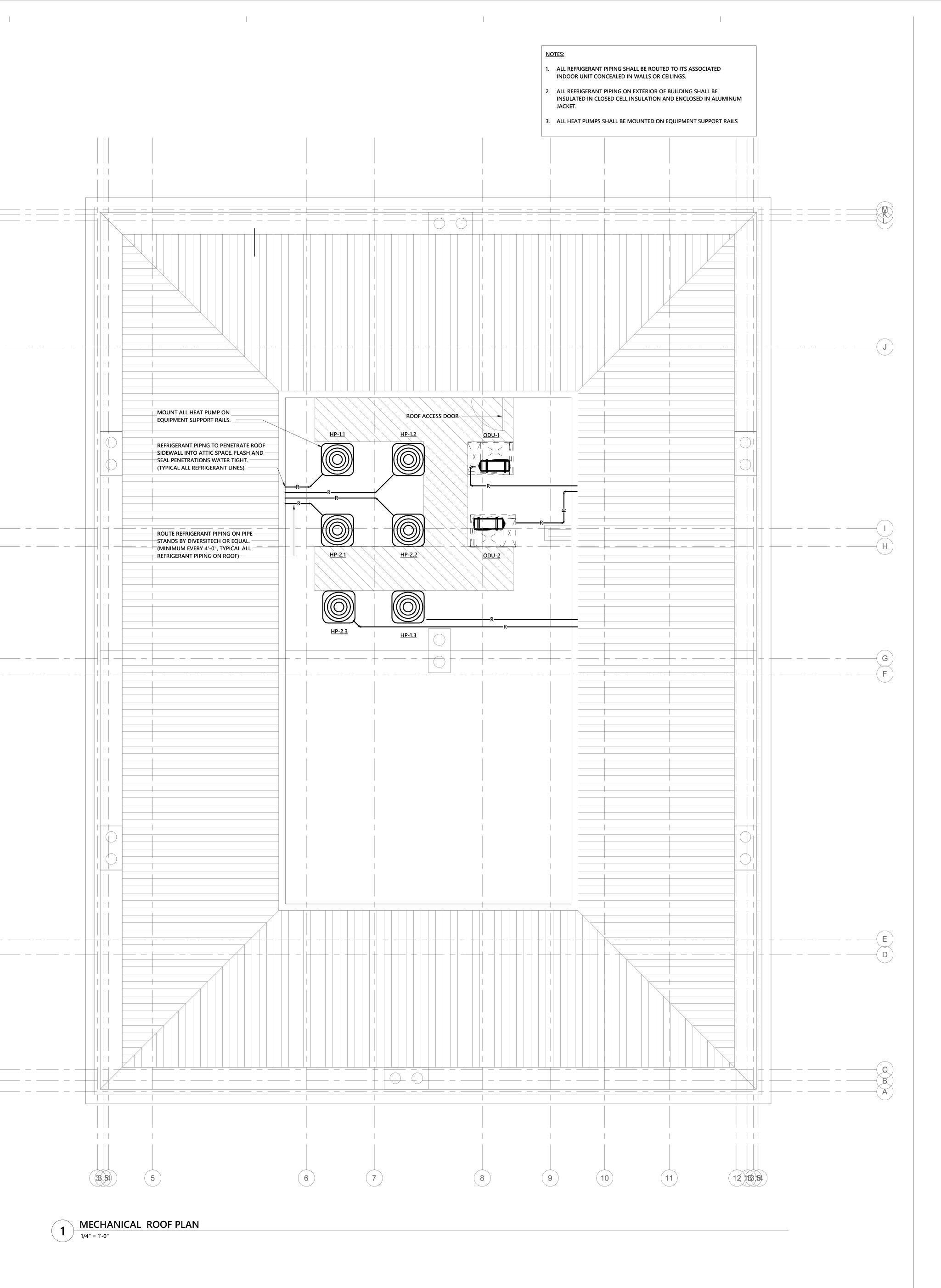


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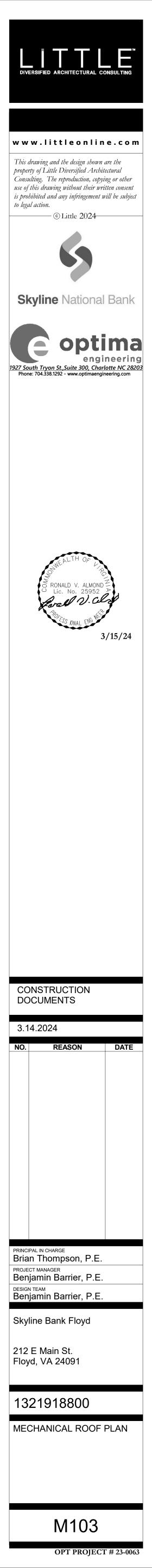
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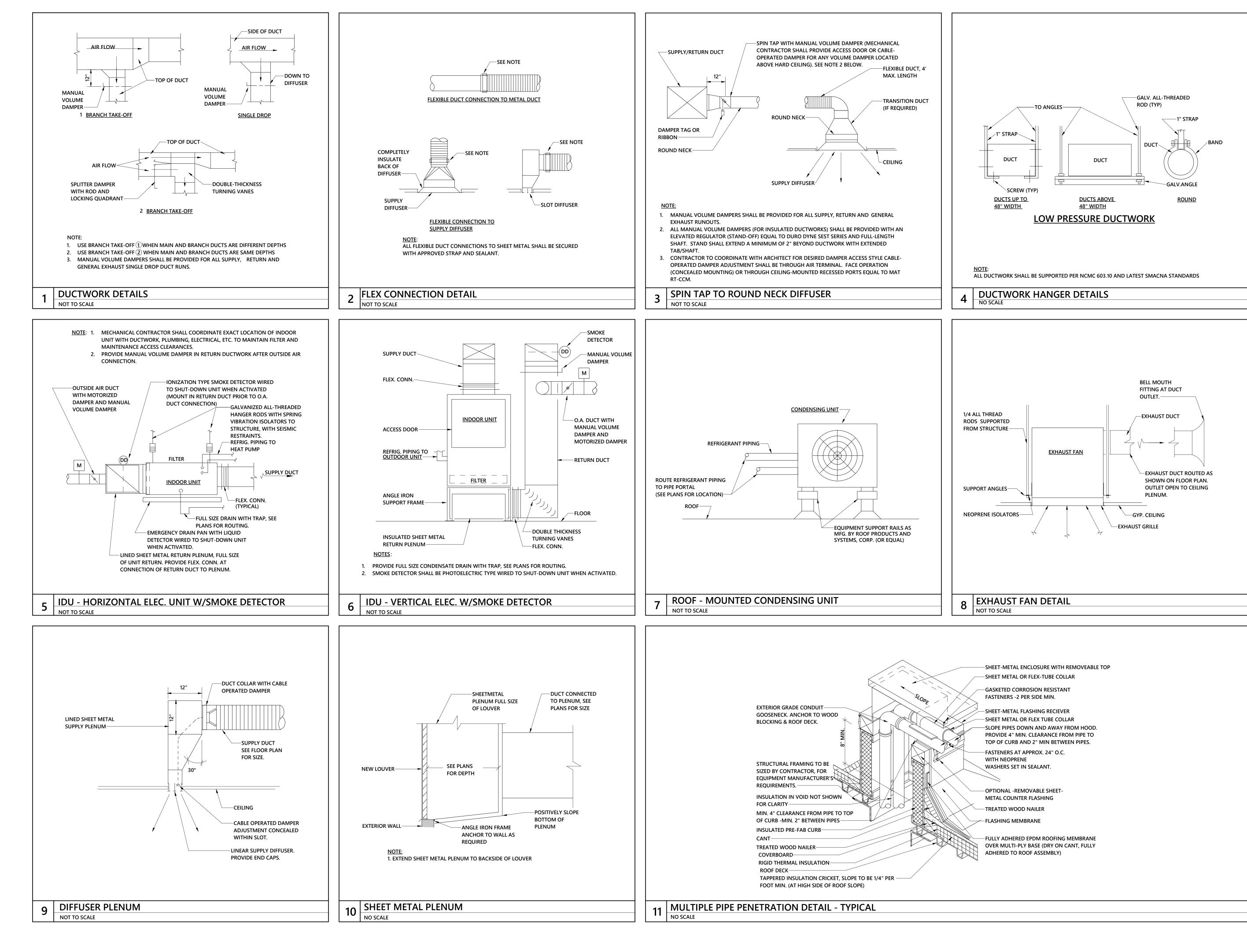
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VERSIFIED ARCHITECTUR www.littleonline.com This drawing and the design shown are the property of Little Diversified Architectural Consulting. The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. Skyline National Bank optima engineering 1927 South Tryon St.,Suite 300, Charlotte NC 28203 Phone: 704.338.1292 - www.optimaengineering.com RONALD V. ALMON 3/15/24 CONSTRUCTION DOCUMENTS 3.14.2024 REASON PRINCIPAL IN CHARGE Brian Thompson, P.E. PROJECT MANAGER Benjamin Barrier, P.E. DESIGN TEAM Benjamin Barrier. P.E. Skyline Bank Floyd 212 E Main St. Floyd, VA 24091 1321918800 MECHANICAL DETAILS M501

**OPT PROJECT # 23-0063**