

CODED NOTES

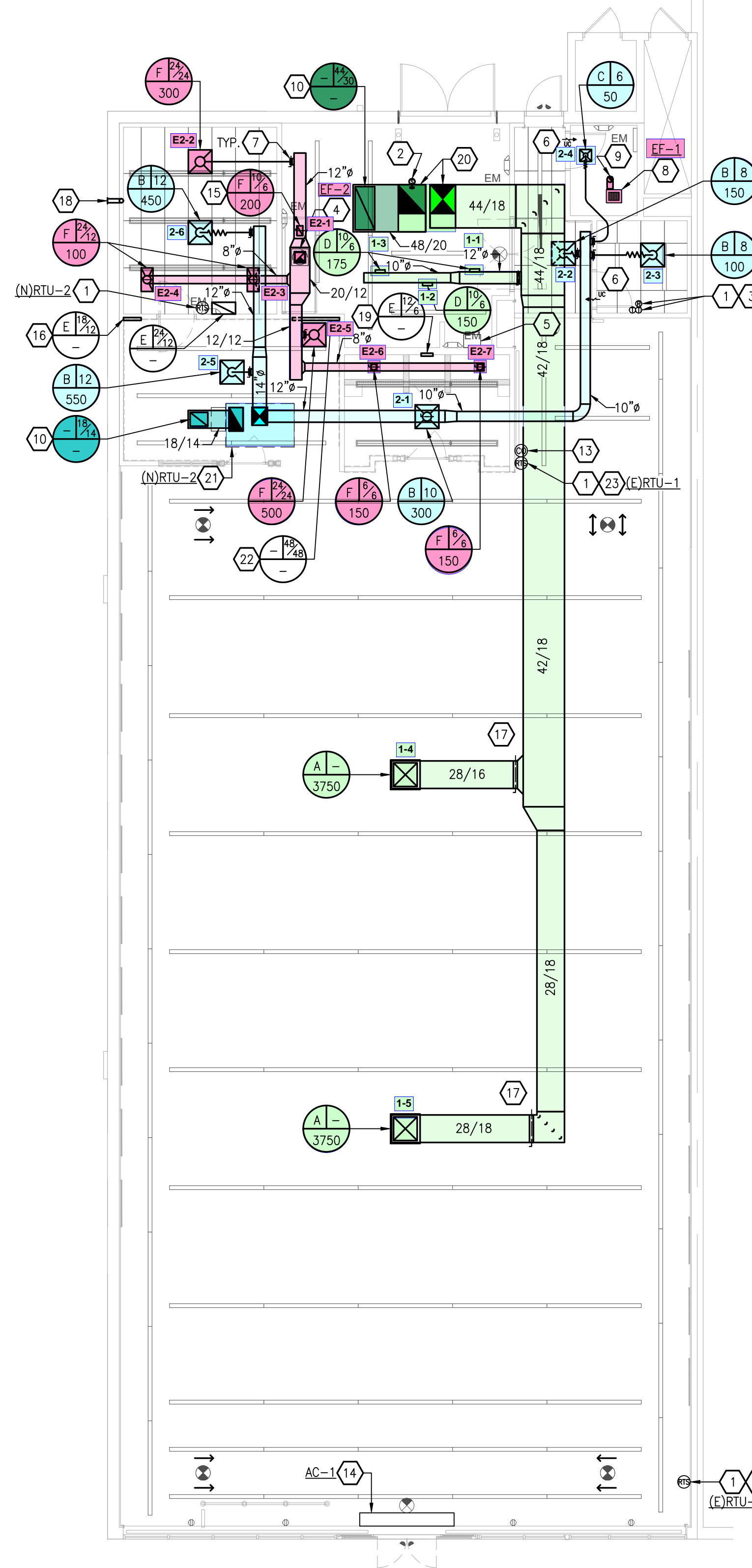
1. MECHANICAL CONTRACTOR TO PROVIDE, INSTALL AND WIRE SMART THERMOSTAT WITH REMOTE SENSOR FOR EACH HVAC UNIT. SENSOR SHALL BE LOCATED ON COLUMN OR CORNER OF WALL AND THERMOSTAT TO BE LOCATED IN OFFICE. MOUNT TEMPERATURE SENSOR ON COLUMN OR WALL AT 8'-0" ABOVE FINISHED FLOOR WITH LOCKED, VENTED, METAL OR PLASTIC ENCLOSURE. MECHANICAL CONTRACTOR SHALL LABEL ALL THERMOSTATS AND SENSOR WITH RESPECTIVE RTU. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE CONTROL WIRING AS REQUIRED.
2. VERIFY EXISTENCE & OPERATION OF SMOKE DETECTOR FOR EXISTING PACKAGED HVAC SYSTEM IN FIELD. IN THE EVENT ONE IS NOT EXISTING OR EXISTING IS DAMAGED PROVIDE NEW. MECHANICAL CONTRACTOR TO COORDINATE FINAL CONNECTION TO HVAC UNIT WITH ELECTRICAL CONTRACTOR AS NECESSARY. WIRING BY ELECTRICAL CONTRACTOR TO SHUT DOWN CORRESPONDING AIR HANDLING UNIT UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
3. MECHANICAL CONTRACTOR TO PROVIDE AND MOUNT SMOKE DETECTOR REMOTE KEY STATUS AND TEST STATIONS (WITH AUDIO AND VISUAL ALARM) NEXT TO UNIT THERMOSTAT. M.C. TO LABEL DETECTOR SERVING RESPECTIVE ROOFTOP UNIT. ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR IN CONDUIT PER N.E.C. REMOTE STATION SHALL BE A SYSTEM SENSOR MODEL DH100ACDCLP OR EQUAL.
4. ROOF MOUNTED EXHAUST FAN. SEE DETAIL AND SCHEDULE FOR REQUIREMENTS.
5. EXTEND FACTORY PROVIDED CONCENTRIC VENT FROM TANKLESS WATER HEATER THRU ROOF OF BUILDING. CONFIRM LENGTH PRIOR TO ORDERING. COORDINATE WITH G.C. & P.C.
6. UNDERCUT DOOR 3/4" FOR MAKE UP AIR. COORDINATE WITH DOOR SCHEDULE ON SHEET A9.0.
7. MANUAL VOLUME CONTROL DAMPERS SHALL BE LOCK-TYPE (TYPICAL FOR ALL).
8. EXHAUST FAN LOCATED ON CEILING. SEE ELECTRICAL DRAWINGS FOR EXACT LOCATION.
9. 8"Ø EXHAUST AIR DUCT UP THRU ROOF. TERMINATE ON ROOF WITH GOOSE NECK AND BIRD SCREEN.
10. RETURN AIR OPENING ON TOP OF RETURN AIR DUCT. SEE DETAIL ON M2.0 FOR MORE INFO.
11. NOT USED
12. NOT USED.
13. VERIFY SALES FLOOR EXISTING UNIT'S ECONOMIZER DAMPER CAN BE CONTROLLED VIA CO2 CONTROL. IN THE EVEN THIS IS POSSIBLE, PROVIDE & MOUNT CARBON DIOXIDE SENSOR AT 5'-0" A.F.F. ONE SENSOR SHALL CONTROL OUTDOOR AIR FLOW FROM SALES FLOOR HVAC UNITS.
14. MOUNT AIR CURTAIN CENTERED ABOVE DOOR ABOVE WINDOW HEAD. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
15. DUCT MOUNTED EXHAUST GRILLE SHALL BE CENTERED ABOVE SHELVING UNIT FOR FEEDER MICE.
16. PROVIDE AIR TRANSFER OPENING THRU WALL FROM CEILING TRANSFER GRILLE. PROVIDE GRILLE ON FINISHED SIDE. TRANSFER GRILLE SHALL HAVE PAINTABLE FINISH & BE INSTALLED 13'-0" A.F.F.
17. DUCTWORK SHALL BE CENTERED BETWEEN SALES FLOOR LIGHT FIXTURES (WHERE POSSIBLE).
18. ROUTE RIGID ALUMINUM DRYER VENT FROM DRYER UP INTO CEILING SPACE AND TERMINATE THRU WALL OF BUILDING WITH DRYER VENT HOOD. PROVIDE DRYER VENT HOOD WITH BIRD SCREEN AT TERMINATION. MAINTAIN A MINIMUM OF 10'-0" FROM ANY FRESH AIR OPENINGS.
19. PROVIDE 2 TRANSFER GRILLES ON PUBLIC PET WASH SIDE OF WALL. MOUNT 1 GRILLE AT 12' AFF. AND 1 AT 12' AFF W/BLADES POINTED UP. GRILLES ARE TO BE LOCATED IN THE SPACE BETWEEN 2 WALL STUDS, SUCH THAT AIR MAY BE TRANSFERRED BETWEEN THEM. FIELD COORDINATE THE EXACT LOCATION OF THE GRILLES AND ENSURE THAT THERE IS TO BE NO HORIZONTAL FRAMING, OR OTHER OBSTRUCTIONS IN THE STUD SPACE.
20. EXISTING ROOFTOP UNIT & ASSOCIATED COMPONENTS (CONTROLS, ELECTRICAL/GAS CONNECTIONS, ETC.) IN THIS AREA TO REMAIN. PROVIDE REFURBISHMENT SCOPE AS NOTED ON SHEET M3.0. REMOVE EXISTING SUPPLY/RETURN DUCT MAINS BACK TO ROOF DROPS & EXTEND NEW AS SHOWN. THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS SHALL BE ACOUSTICALLY LINED. SET UNIT OUTSIDE AIR QUANTITY AS LISTED ON ROOFTOP UNIT SCHEDULE. FANS TO RUN CONTINUOUS DURING OCCUPIED HOURS.
21. PROVIDE AND INSTALL NEW ROOFTOP UNIT, PROVIDE WITH ROOF CURB. FULL SIZE SUPPLY & RETURN DUCTWORK DOWN THROUGH ROOFTOP TO CEILING SPACE & EXTEND AS SHOWN. THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS SHALL BE ACOUSTICALLY LINED. SET UNIT OUTSIDE AIR QUANTITY AS LISTED ON ROOFTOP UNIT SCHEDULE. FANS TO RUN CONTINUOUS DURING OCCUPIED HOURS.
22. PROVIDE AIR TRANSFER OPENING THRU WALL HIGH IN JOIST SPACE FOR SALES FLOOR RETURN AIR. PROVIDE GRILLE ON FINISHED SIDE OF WALL. TRANSFER GRILLE SHALL HAVE PAINTABLE FINISH.
23. CONTRACTOR TO PROVIDE TWO REMOTE THERMOSTATS WITH SPACE AVERAGING FOR SALES FLOOR HVAC UNIT.

GENERAL NOTES

- A. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING PROCESS AND BE FAMILIAR WITH THE SCOPE OF WORK.
- B. MECHANICAL CONTRACTOR SHALL DISCONNECT, DISASSEMBLE, AND REMOVE EXISTING EQUIPMENT, ASSOCIATED DUCTWORK, DIFFUSERS, GRILLES, SUPPORTS, PIPING, AND ASSOCIATED CONTROLS, ETC., NOT OTHERWISE INDICATED TO BE REUSED ON DRAWINGS. ALL OPENINGS IN PIPING AND DUCTS THAT REMAIN SHALL BE PLUGGED/CAPPED AND PROPERLY SECURED. ANY EQUIPMENT DESIGNATED BY OWNER TO BE SALVAGED SHALL BE PROTECTED DURING DEMOLITION AND DELIVERED TO OWNER ON SITE. OTHERWISE, CONTRACTOR SHALL DISPOSE OF LEGALLY AS DIRECTED BY OWNER.
- C. MECHANICAL CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.
- D. CONTRACTOR SHALL BE FAMILIAR WITH OWNER'S STANDARDS, RULES AND REGULATIONS. ALL OWNER'S CRITERIA SHALL BE COMPLIED WITH AND INCLUDED IN THIS BID.
- E. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO UNDERSIDE OF STRUCTURE OR AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID OBSTRUCTIONS.
- F. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL EQUIPMENT.
- G. HVAC DUCTWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ASHRAE AND LATEST SMACNA STANDARDS. PROVIDE TURNING VANES ON ALL ELBOWS.
- H. ALL SUPPLY AND EXHAUST BRANCH DUCTWORK SHALL HAVE MANUAL VOLUME DAMPERS IN CORRESPONDING RUNOUTS NEAR CONNECTION TO MAIN DUCT.
- I. NO THERMOSTATS OR SENSOR ARE TO BE LOCATED OVER HEAT PRODUCING EQUIPMENT.
- J. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF WORK.
- K. CONDUIT IN EXPOSED TO VIEW AREAS TO BE PAINTED TO MATCH ROOF DECK AND/OR WALL COLOR.
- L. MECHANICAL CONTRACTOR SHALL PATCH ALL OPENINGS IN EXISTING WALLS, FLOORS, AND CEILINGS REMAINING AFTER COMPLETION OF ALL DEMOLITION WORK FOR PROJECT. CONTRACTOR SHALL PATCH ALL OPENINGS TO MATCH SURROUNDING SURFACE FINISHES.
- M. EXISTING SPRINKLERS TO BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW ROOM/REFLECTED CEILING LAYOUT. SPRINKLERS SHALL BE IN ACCORDANCE WITH N.F.P.A. 13. PER REQUIRED OCCUPANCY HAZARDS.
- N. FILTERS FOR ALL HVAC UNITS ARE TO BE REPLACED AT THE END OF CONSTRUCTION. CONTRACTOR SHALL SUPPLY (1) ADDITIONAL SET OF FILTERS LABELED FOR THE RESPECTIVE HVAC UNIT TO OWNER AT THE END OF CONSTRUCTION.
- O. ALL ROOF WORK TO BE DONE BY LANDLORD APPROVED ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.
- P. ANY EXISTING CEILING ITEMS THAT ARE TO REMAIN (FOR EXAMPLE: EXISTING DUCTWORK OR ANY OTHER EXISTING BUILDING SYSTEM ELEMENTS) ARE TO BE RAISED AS REQUIRED FOR LIGHT FIXTURE INSTALLATION. G.C. TO COORDINATE AS REQUIRED.
- Q. MECHANICAL CONTRACTOR TO PERFORM COMPLETE TEST AND BALANCE OF NEW OR UPDATED HVAC SYSTEM AND SUBMIT TO GC AND BUILDING OFFICIAL IF REQUIRED.

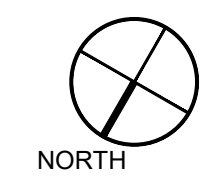
SUPPLY BRANCH DUCTWORK SIZING		RETURN BRANCH DUCTWORK SIZING	
CFM	DUCT SIZE	CFM	DUCT SIZE
0-100	6"	0-75	6"
101-250	8"	76-225	8"
251-400	10"	226-375	10"
401-650	12"	376-650	12"

01 MECHANICAL PLAN



REFER TO REFLECTED CEILING FOR ALL REQUIRED HEIGHTS. VERIFY ALL CLEARANCES FOR LIGHTING/DUCTWORK PRIOR TO DUCT FABRICATION.

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD



SCALE: 1/8" = 1'-0"

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	TURNING VANE
	AIR EXTRACTOR
	OPPOSED BLADE VOLUME DAMPER
	SUPPLY DUCT
	RETURN DUCT
	EXHAUST DUCT
	FLEXIBLE DUCT CONNECTION
	THERMOSTAT
	SMOKE DETECTOR TEST STATION
	CARBON MONOXIDE SENSOR
	REMOTE THERMOSTAT
	DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UNDER ALARM
	UNDERCUT DOOR (BY G.C.)
	CONNECT TO EXISTING

ABBREVIATIONS

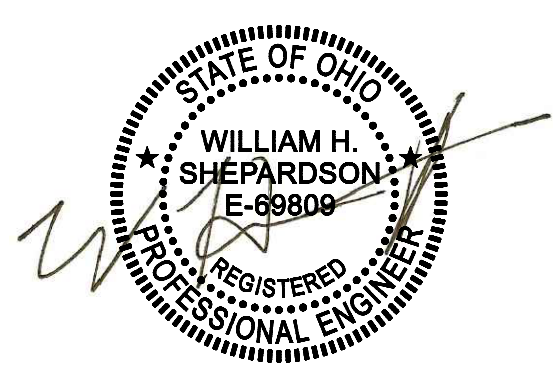
SR SUPPLY REGISTER	G.C. GENERAL CONTRACTOR
RC RETURN GRILLE	M.C. MECHANICAL CONTRACTOR
SA SUPPLY AIR	P.C. PLUMBING CONTRACTOR
RA RETURN AIR	E.C. ELECTRICAL CONTRACTOR
VD VOLUME DAMPER	CLG., CEIL. CEILING
FD FIRE DAMPER	A.F.F. ABOVE FINISHED FLOOR
UCD UNDERCUT DOOR	(E) EXISTING TO REMAIN



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SEAL



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DATE	ISSUE/REVISION
5/05/2023	OWNER REVIEW
5/31/2023	BID PERMIT

MECHANICAL PLAN
DRAWING NUMBER

M1.0