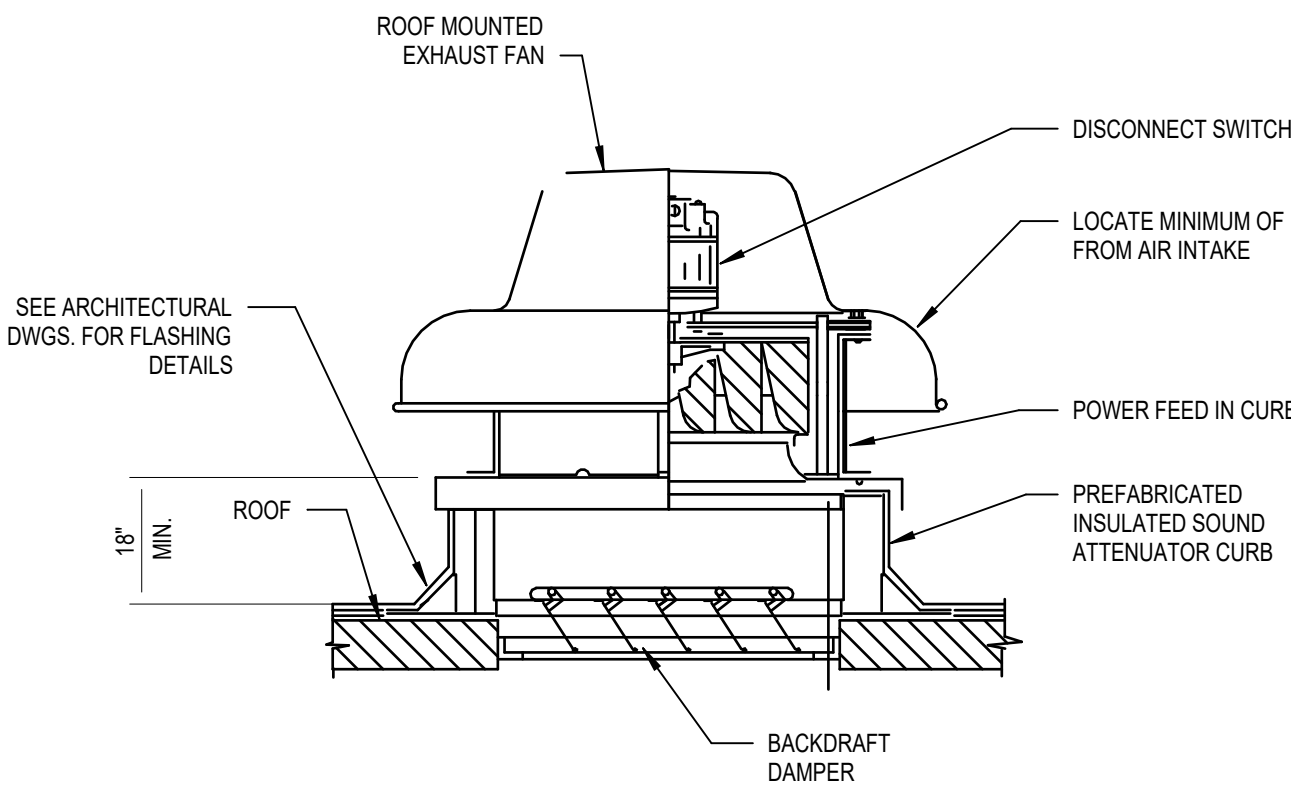
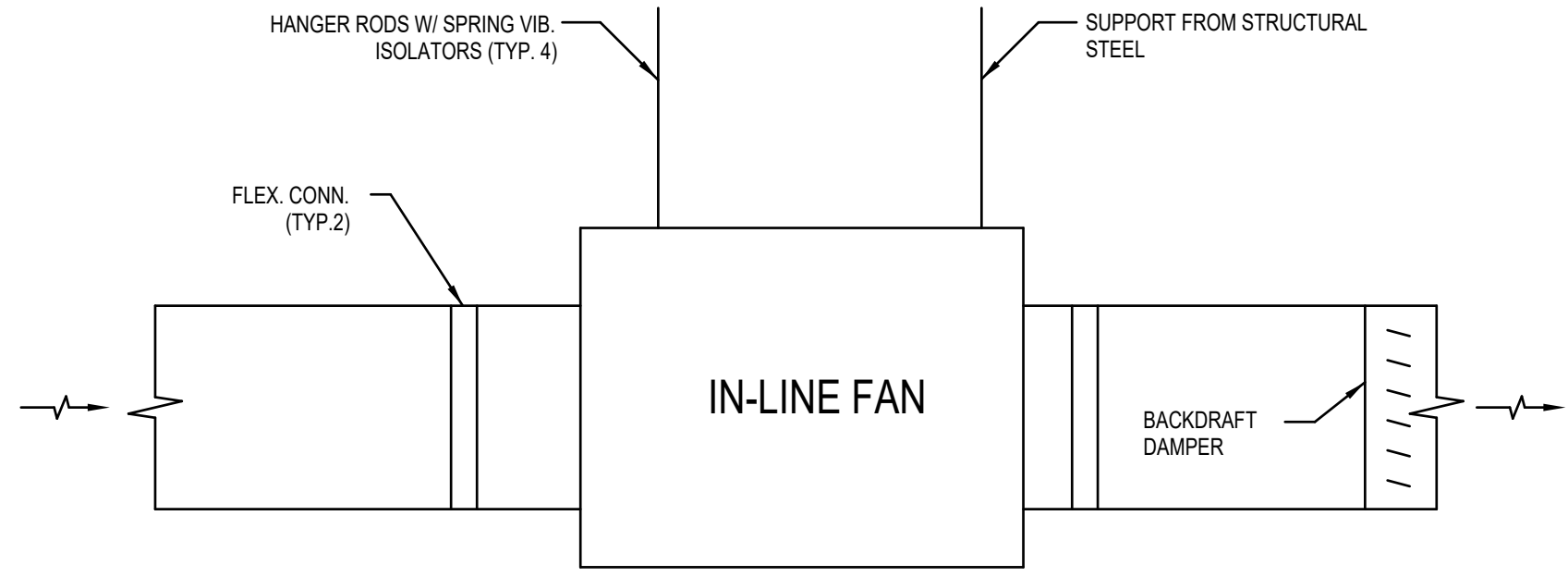


EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER MODEL	SERVICE	AIRFLOW (CFM)	E.S.P. (IN WC)	FRPM	MOTOR (HP)	OPERATING POWER (HP)	ELECTRIC	WEIGHT (LBS)	REMARKS
EF 1	GREENHECK SP-A90	RESTROOM EXHAUST	70	0.25	900	15 W	0.01	120/1	12	①
EF 2	GREENHECK SP-A390	RESTROOM EXHAUST	140	0.25	915	17 W	0.02	120/1	25	①
EF 4	GREENHECK G-140-VG	RESTROOM EXHAUST	1360	0.25	885	1/4	0.14	120/1	50	①
① PROVIDE WITH BACKDRAFT DAMPER, FACTORY MOUNTED DISCONNECT SWITCH AND VIBRATION ISOLATORS. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LOW VOLTAGE CONTROL WIRING. FAN TO RUN CONTINUOUSLY										

DIFFUSER AND GRILLE SCHEDULE								
MARK	MANUFACTURER MODEL NUMBER	NECK SIZE	FACE SIZE	MOUNTING	MAX CFM	PATTERN	SP @ MAX CFM	REMARKS
CD-1 -	TITUS OMNI-AA	M.C. TO VERIFY	24"x24"	LAY-IN	M.C. VERIFY EXISTING	4-WAY	---	① ② ③
CD-2 -	TITUS OMNI-AA	10"Ø	24"x24"	LAY-IN	380	4-WAY	0.03	① ②
RG-1 -	TITUS S0F	M.C. TO VERIFY	M.C. TO VERIFY	LAY-IN	M.C. VERIFY EXISTING	---	---	① ② ④
RG-2 -	TITUS S0F	14"x6"	16"x6"	SIDEWALL	335	---	0.03	① ②
RG-3 -	TITUS S0F	10"x10"	12"x12"	LAY-IN	415	---	0.03	① ②
RG-4 -	TITUS S0F	22"x22"	24"x24"	LAY-IN	2,200	---	0.03	① ②
RG-5 -	TITUS S0F	24"x14"	26"x16"	SIDEWALL	1,500	---	0.03	① ②
SG-1 -	TITUS 300-RL	10"x6"	12"x6"	SIDEWALL	240	---	0.03	① ②
① MAXIMUM NC+25 @ MAXIMUM CFM NOTED. ② FINISH & COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARDS. ③ CONTRACTOR TO VERIFY EXISTING DIFFUSER NECK SIZE AND REPLACE WITH DIFFUSER OF SAME NECK SIZE. ④ CONTRACTOR TO VERIFY EXISTING GRILLE NECK AND FACE SIZE AND REPLACE TO MATCH EXISTING.								



2 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S.



1 INLINE EXHAUST FAN DETAIL
N.T.S.

LEGEND MECHANICAL SYMBOLS	
SYMBOL & ABBREVIATION	DESCRIPTION
SA/SUP	SUPPLY AIR (RISE/DROP)
RA/RET	RETURN AIR DUCT (RISE/DROP)
EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
RR/RG	RETURN REGISTER/GRILL
ER/EG	EXHAUST REGISTER/GRILL
DIA.	DIAMETER
AC 1	MECHANICAL EQUIPMENT DESIGNATION DESIGNATION NUMBER
D-1 200	DIFFUSER/GRILLE DESIGNATION CFM QUANTITY
S	DUCT MOUNTED SMOKE DETECTOR
T	TEMPERATURE SENSOR
MECH EQUIP	MECH EQUIP MINIMUM REQUIRED MAINTENANCE AREA
CONNECT TO EXISTING	CONNECT TO EXISTING

SPECIFICATIONS NOTE

ALL EQUIPMENT, MATERIALS AND INSTALLATION PRACTICES TO MEET THE REQUIREMENTS WITHIN THE SPECIFICATIONS OF THIS PROJECT.

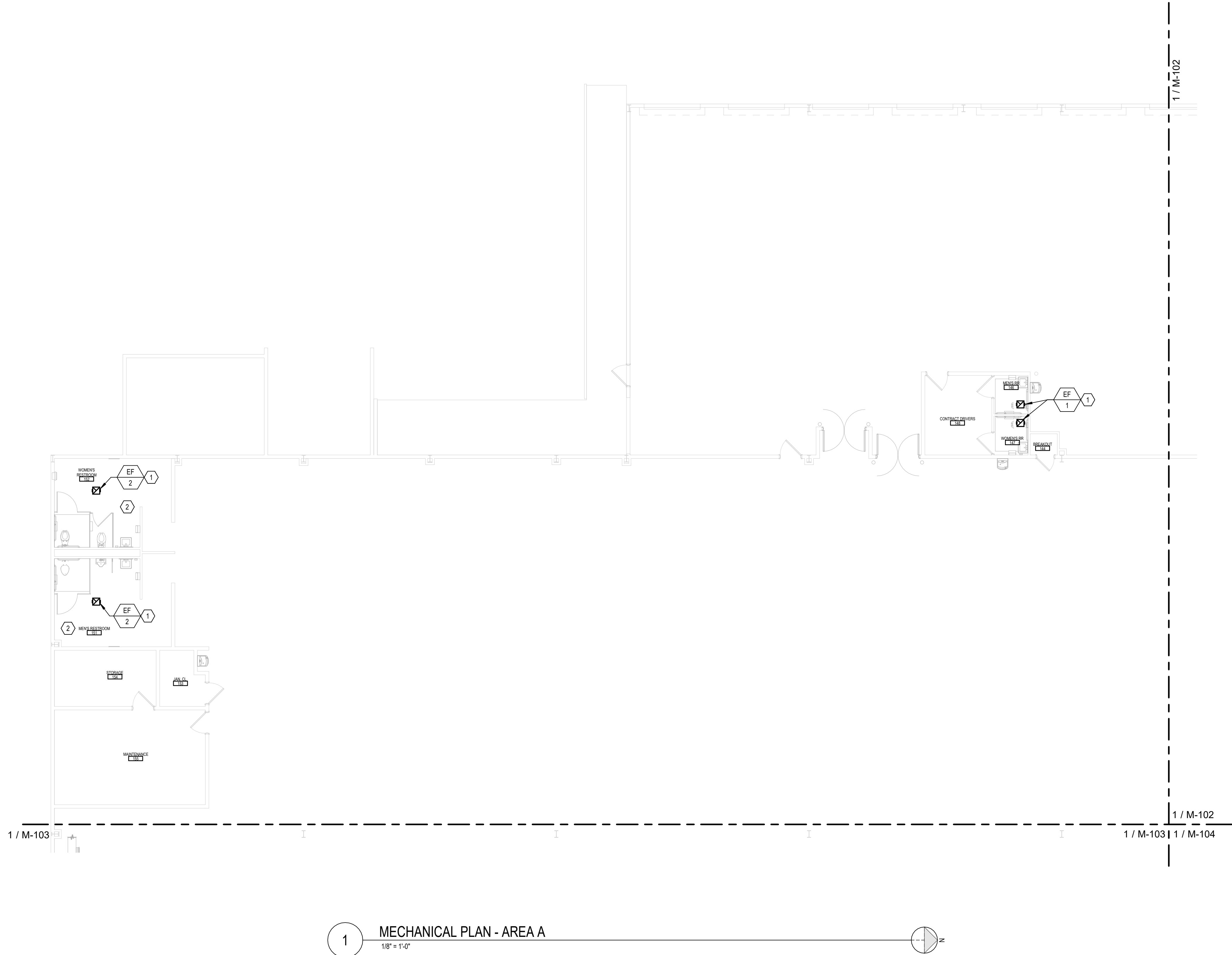
HVAC WORK COORDINATION

COORDINATE ALL HVAC WORK ASSOCIATED WITH THIS WORK WITH ON GOING HVAC UPGRADE PROJECT ENGINEER AND CONTRACTOR.

SEISMIC NOTE

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MECHANICAL ABBREVIATIONS	
ABOVE FINISHED FLOOR	AFF
AIR-HANDLING UNIT	AHU
ALTERNATING CURRENT	AC
AMBIENT	AMB
AMPERE (AMP, AMPS)	AMP
APPARATUS DEW POINT	ADP
APPROXIMATE	APPROX.
AVERAGE	AVG
BRAKE HORSEPOWER	BHP
BRITISH THERMAL UNIT	BTU
CENTER TO CENTER	C TO C
CLOCKWISE	CW
COMPRESSOR	COMP.
CONDENS (-ER, -ING, -ATION)	COND
COUNTERCLOCKWISE	CCW
CUBIC FEET PER MINUTE	CFM
DECIBEL	DB
DEGREE	DEG OR °
DEW-POINT TEMPERATURE	DPT
DIAMETER	DIA Ø
DIRECT CURRENT	DC
DRY-BULB	DB
EFFICIENCY	EFF
ELEVATION	ELEV
ENTERING WATER TEMPERATURE	EWI
ENTERING AIR TEMPERATURE	EAT
EXPANSION	EXP
FACE AREA	FA
FAHRENHEIT	°F
FEET PER MINUTE	FPM
FOOT OR FEET	FT
FREQUENCY (ELECTRICAL)	HZ
GAGE OR GAUGE	GA
GALLONS	GAL
GALLONS PER HOUR	GPH
HEAD	HD
HEIGHT	HT
HORSEPOWER	HP
HUMIDITY, RELATIVE	RH
IRON PIPE SIZE	IPS
KILOWATT	KW
LATENT HEAT	LH
LEAVING AIR TEMPERATURE	LAT
LEAVING WATER TEMPERATURE	LWT
LINEAR FEET	LF
LIQUID	LIQ
MAXIMUM	MAX
MILES PER HOUR	MPH
MINIMUM	MIN
NOISE CRITERIA	NC
NORMALLY OPEN	N.O.
NORMALLY CLOSED	N.C.
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO
OUTSIDE AIR	OA
PERCENT	%
PHASE (ELECTRICAL)	PH
POUNDS	LBS
POUNDS PER SQUARE FOOT	PSF
POUNDS PER SQUARE INCH	PSI
PSI GAGE	PSIG
PRESSURE	PRES
PRESSURE DROP	PD
PRESSURE, STATIC	SP
REFRIGERANT (12, 22, ECT.)	R12, R22
RELATIVE HUMIDITY	RH
RETURN AIR	RA
REVOLUTIONS PER MINUTE	RPM
SAFETY FACTOR	SF
SENSIBLE HEAT	SH
SPECIFICATION	SPEC
SQUARE	SQ
STANDARD	STD
STATIC PRESSURE	SP
SUCTION	SUCT
SUPPLY AIR	SA
TEMPERATURE	TEMP
TEMPERATURE DIFFERENCE	TD
THERMOSTAT	T STAT
VALVE	V
VARIABLE AIR VOLUME	VAV
VELOCITY	VEL
VENTILATION AIR	VA
VENTILATION, VENT	VENT
VOLT (ELECTRICAL)	V
VOLUME	VOL
WATT	W
WEIGHT	WT
WET BULB	WB



1 MECHANICAL PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND GUARANTEE THE INSTALLATION FREE FROM DEFECT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF INSTALLATION.
3. CONTRACTOR SHALL UTILIZE SERVICES OF A PROFESSIONAL BALANCE CONTRACTOR TO PERFORM AIR AND WATER BALANCES ON ALL HVAC EQUIPMENT TO ACHIEVE THE AIRFLOWS INDICATED AND AS REQUIRED PER THE SPECIFICATIONS.
4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES ON PROJECT.
5. ALL NON-FIRE RATED PENETRATIONS OF THE BUILDING WALLS SHALL BE SEALED WITH QUALITY CAULK SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL POWER WIRING OF EQUIPMENT SHALL BE BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR, AND ALL FIRE PROTECTION SIGNAL OR CONTROL WIRING SHALL BE BY FIRE PROTECTION CONTRACTOR. ALL POWER AND CONTROL CONDUITS SHALL BE BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY STRUCTURAL ELEMENTS THAT MUST BE CUT AND/OR REMOVED FOR INSTALLATION OF DUCTWORK OR MECHANICAL EQUIPMENT WITH THE APPROVAL OF THE ENGINEER.
8. ALL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM LOCAL HEAT SOURCES, AIRFLOW FROM SUPPLY GRILLES, AND IN AN AREA WITH REPRESENTATIVE CONDITIONS OF THE ROOM.
9. CONTRACTOR SHALL INSTALL ALL LOOSE-SHIPED COMPONENTS FOR THE HVAC EQUIPMENT.
10. COORDINATE DUCTWORK AND GRILLE INSTALLATION WITH LIGHTING LAYOUT, STRUCTURAL ELEMENTS, AND ELECTRICAL CONDUITS.
11. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH USPS MPF SPECIFICATIONS AND DRAWINGS. WHERE WORK IS SHOWN ON THE DRAWING AND NOT SPECIFIED OR SPECIFIED AND NOT SHOWN ON DRAWING, THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK IN THE EVENT OF A CONFLICT BETWEEN THE USPS MPF SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT CONDITION SHALL APPLY.
12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE USPS MPF SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

PLAN KEYNOTES

1. CONTRACTOR TO REMOVE EXISTING EXHAUST FAN AND PROVIDE AND INSTALL NEW INLINE EXHAUST FAN. FAN TO BE INSTALLED PER DETAIL ON DRAWING M-101. EXISTING DUCTWORK SHALL BE EXTENDED TO NEW FAN AND TRANSITION AS REQUIRED. CONTRACTOR TO VERIFY EXACT LOCATION OF FAN AND EXISTING DUCTWORK PRIOR TO START OF WORK.
2. CONTRACTOR TO REMOVE ANY AND ALL EXISTING SUPPLY AIR DIFFUSERS LOCATED WITHIN THIS SPACE AND PROVIDE AND INSTALL NEW DIFFUSERS OF TYPE CD-1 PER DIFFUSER AND GRILLE SCHEDULE LOCATED ON DRAWING M-101. EXTEND EXISTING DUCTWORK TO NEW DIFFUSER AND TRANSITION AS REQUIRED. PRIOR TO REMOVAL CONTRACTOR TO RECORD AIRFLOW AND NECK SIZE OF DIFFUSER. NEW DIFFUSER TO BE BALANCED TO RECORDED AIRFLOW. CONTRACTOR TO PLACE DIFFUSERS IN NEW CEILING GRID. COORDINATE DIFFUSER LOCATION WITH SPRINKLER HEADS AND LIGHTING.

DUCTWORK NOTE

ALL DUCTWORK, GRILLES AND DIFFUSERS ARE EXISTING UNLESS OTHERWISE NOTED. THE ONLY NEW DUCTWORK TO BE INSTALLED IS ANY DUCTWORK REQUIRED TO TRANSITION TO NEW EXHAUST FAN. EXISTING DUCTWORK, GRILLES AND DIFFUSERS SHALL BE CLEANED AND ASSESSED. UPON ASSESSMENT IF ANY IS DAMAGED OR DEEMED BEYOND USABLE LIFE CONTRACTOR SHALL REPLACE IN KIND.

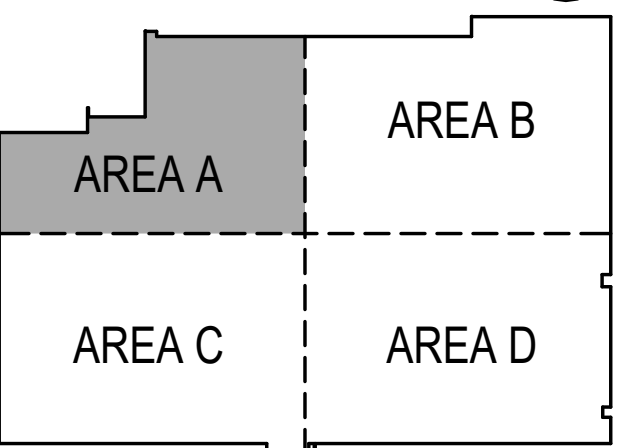
SPECIFICATIONS NOTE

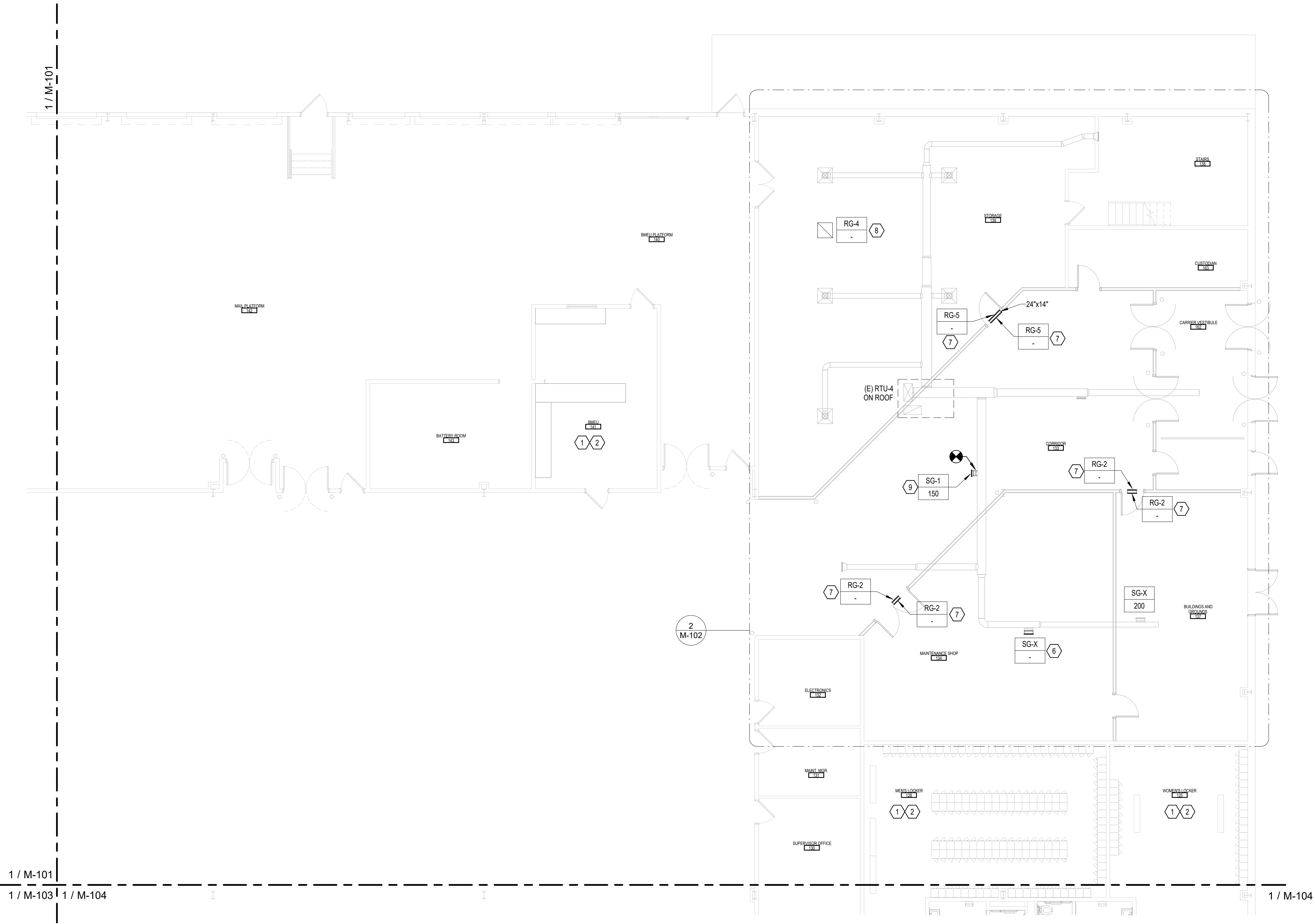
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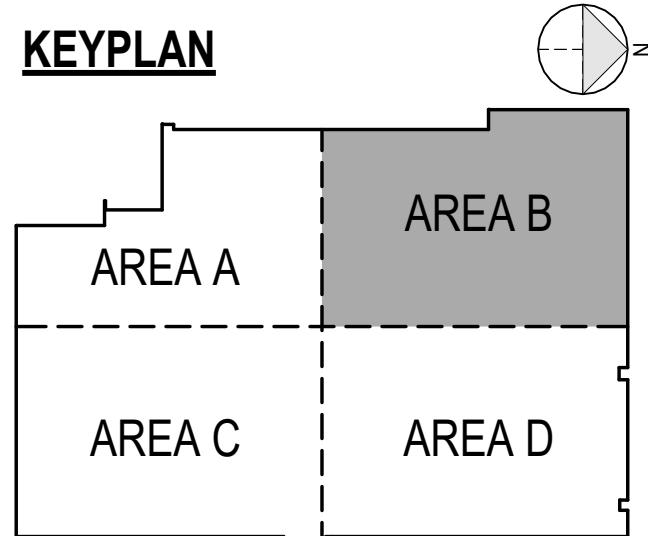
KEYPLAN





1 MECHANICAL PLAN - AREA B
1/8" = 1'-0"

2 MECHANICAL PLAN - AREA B - DEMO
3/32" = 1'-0"



KEYPLAN

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12. SEAL ALL PENETRATION WATERTIGHT.
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PLAN KEYNOTES

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2. CONTRACTOR TO REMOVE ANY AND ALL EXISTING RETURN AIR GRILLES LOCATED WITHIN THIS SPACE AND PROVIDE AND INSTALL NEW GRILLES OF TYPE RG-1 PER DIFFUSER AND GRILLE SCHEDULE LOCATED ON DRAWING M-101. EXTEND EXISTING DUCTWORK TO NEW GRILLE AND TRANSITION AS REQUIRED. PRIOR TO REMOVAL CONTRACTOR TO RECORD AIRFLOW AND NECK SIZE OF GRILLE. NEW GRILLE TO BE BALANCED TO RECORDED AIRFLOW. CONTRACTOR TO PLACE GRILLES IN NEW CEILING GRID. COORDINATE GRILLE LOCATIONS WITH SPRINKLER HEADS AND LIGHTING.
3. REMOVE EXISTING DUCTWORK AND DIFFUSER/GRILLE BACK TO MAIN AND CAP.
4. REMOVE SUPPLY DUCT BACK TO POINT INDICATED DURING DEMOLITION. RETAIN EXISTING SUPPLY GRILLE FOR RECONNECTION UNDER NEW WORK. CONTRACTOR TO RECORD AIRFLOW OF SUPPLY GRILLE PRIOR TO REMOVAL.
5. REMOVE EXISTING RETURN GRILLE DURING DEMOLITION.
6. REINSTALL SALVAGED SUPPLY GRILLE DURING NEW WORK. BALANCE SALVAGED SUPPLY GRILLE TO RECORDED AIRFLOW.
7. CONTRACTOR TO PROVIDE AND INSTALL NEW WALL MOUNTED RETURN GRILLE ABOVE DOORWAY.
8. CONTRACTOR TO PROVIDE AND INSTALL NEW RETURN GRILLE IN CEILING GRID. COORDINATE GRILLE PLACEMENT WITH SPRINKLER HEADS AND LIGHTING.
9. CONTRACTOR TO PROVIDE AND INSTALL NEW DUCT MOUNTED SUPPLY GRILLE. BALANCE NEW GRILLE TO INDICATED AIRFLOW.

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12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE USPS MPF SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

PLAN KEYNOTES

1. CONTRACTOR TO REBALANCE EXISTING SUPPLY GRILLE TO INDICATED AIRFLOW DURING NEW WORK.
2. CONNECT NEW 10" Ø DUCT TO EXISTING SUPPLY DUCTWORK AND EXTEND TO SERVE NEW VESTIBULE.
3. PROVIDE AND INSTALL NEW CEILING DIFFUSER IN NEW CEILING GRID. NEW DIFFUSER TO BE BALANCED TO INDICATED AIRFLOW. COORDINATE DIFFUSER LOCATION WITH SPRINKLER HEADS AND LIGHTING.
4. PROVIDE AND INSTALL NEW WALL MOUNTED RETURN GRILLE. CONTRACTOR TO BALANCE NEW GRILLE TO INDICATED AIRFLOW DURING NEW WORK.
5. PROVIDE AND INSTALL NEW RETURN GRILLE IN NEW CEILING GRID. NEW GRILLE TO BE BALANCED TO INDICATED AIRFLOW. COORDINATE GRILLE LOCATION WITH SPRINKLER HEADS AND LIGHTING.
6. REMOVE EXISTING DUCTWORK AND DIFFUSER/GRILLE BACK TO MAIN AND CAP.
7. CONTRACTOR TO PROVIDE AND INSTALL NEW DUCT MOUNTED SUPPLY GRILLE. BALANCE NEW GRILLE TO INDICATED AIRFLOW.
8. CONTRACTOR TO PROVIDE AND INSTALL NEW DUCT MOUNTED RETURN GRILLE.

DUCTWORK NOTE

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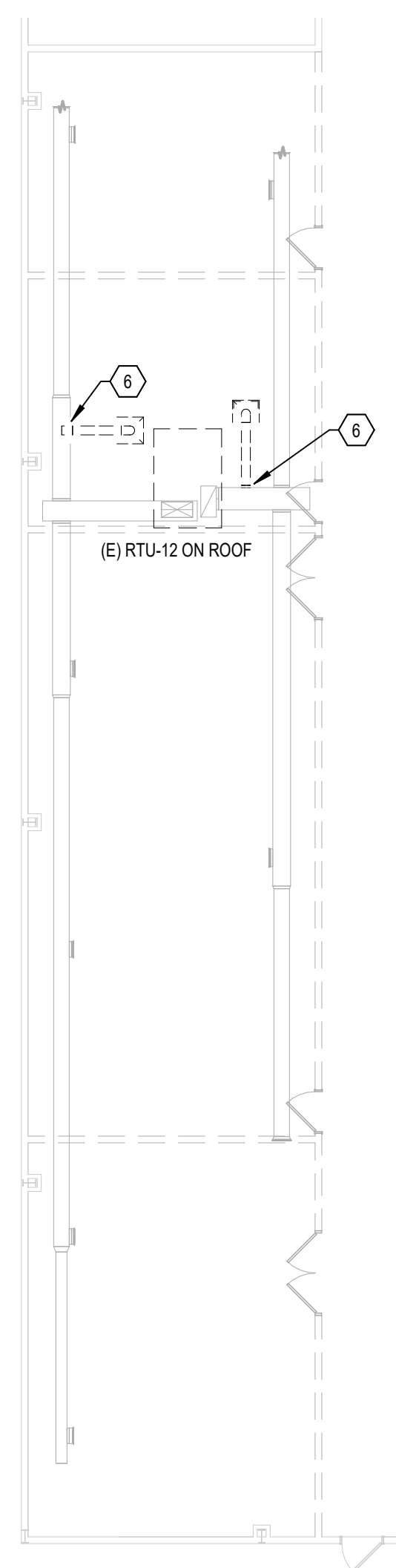
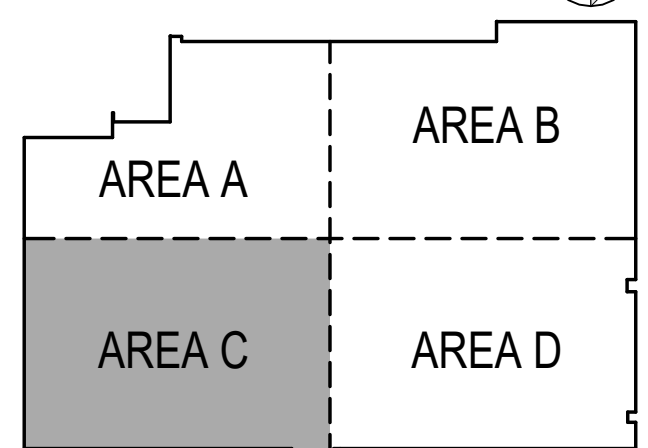
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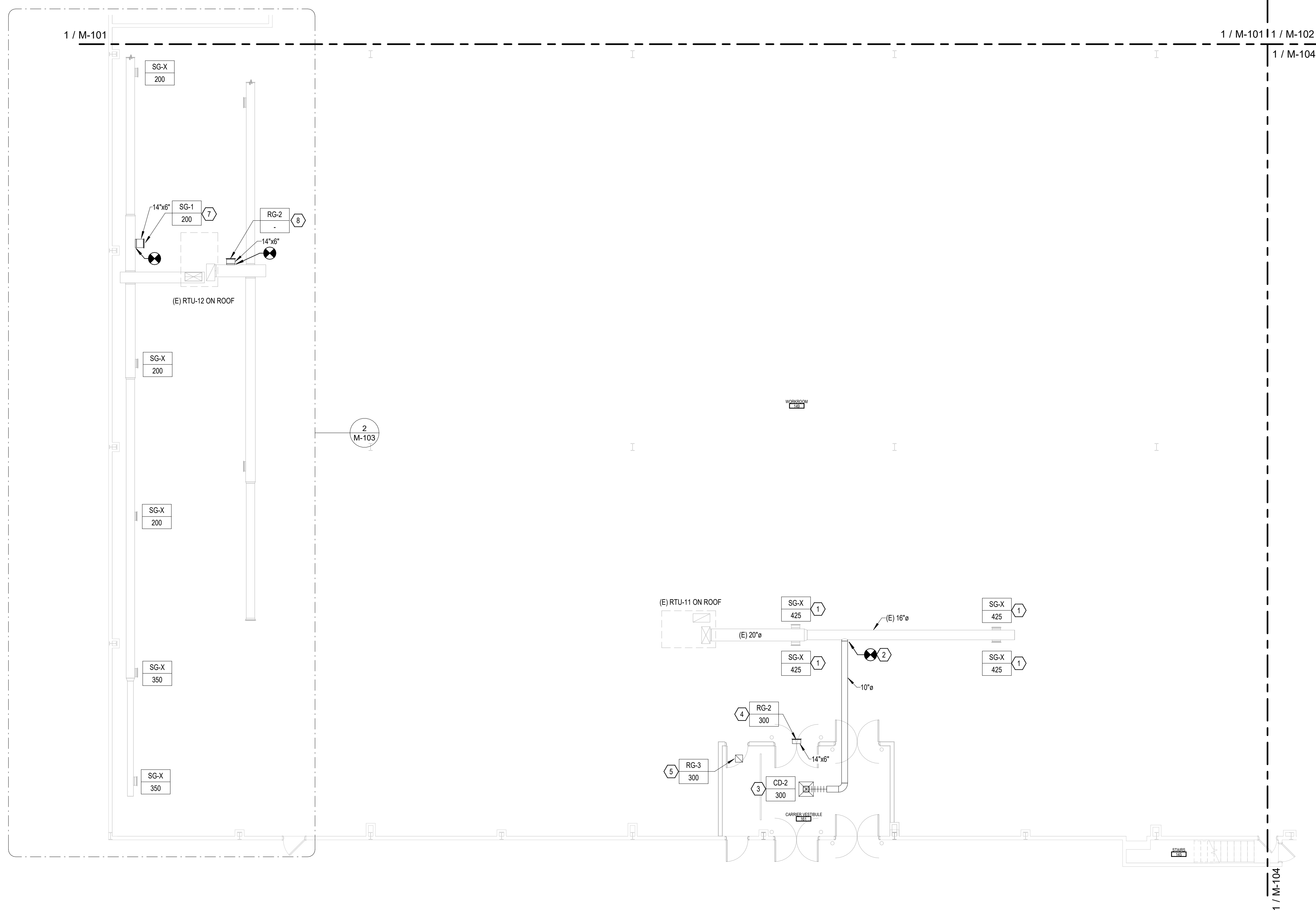
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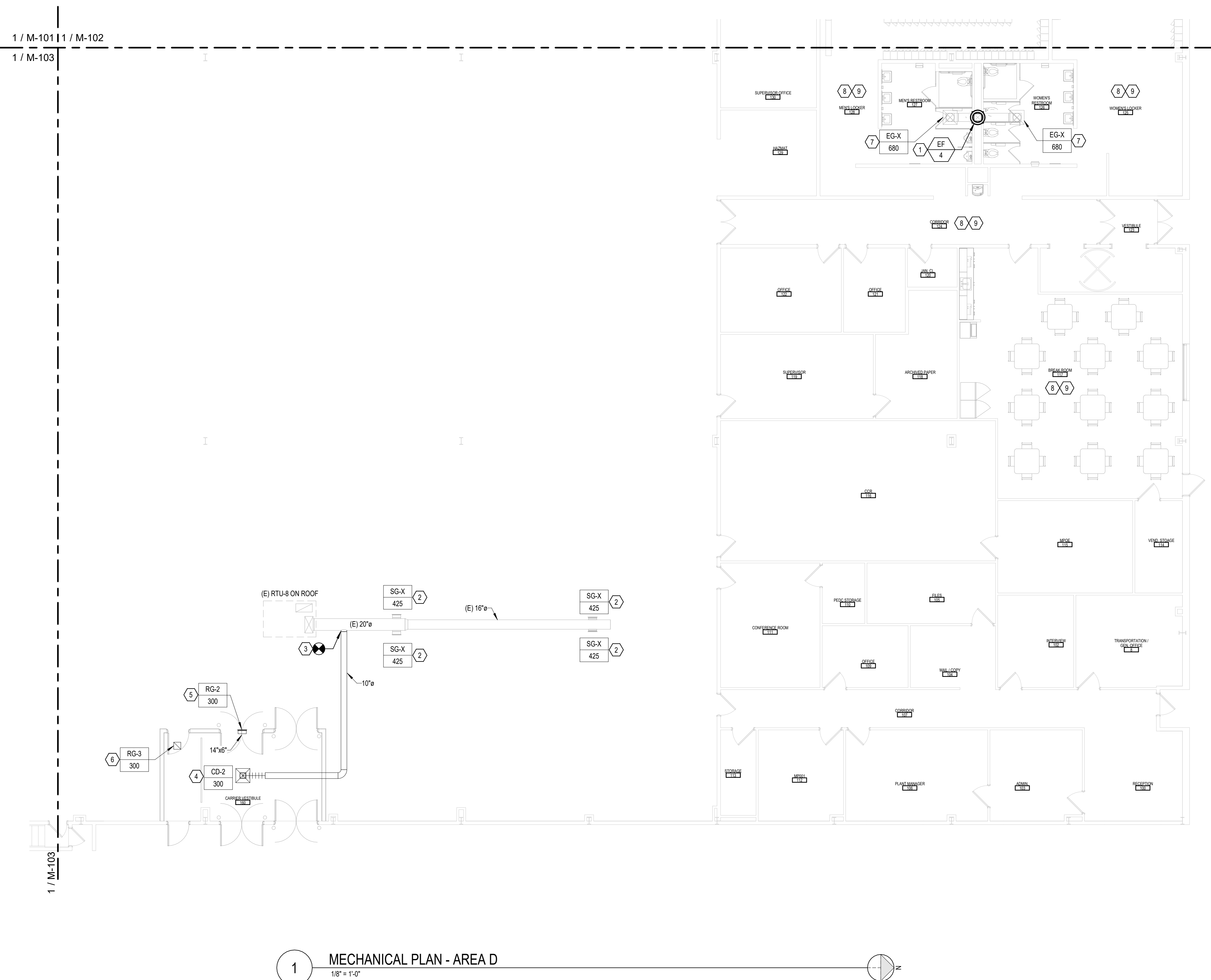
KEYPLAN



2 MECHANICAL PLAN - AREA C - DEMO
3/32" = 1'-0"



1 MECHANICAL PLAN - AREA C
1/8" = 1'-0"



GENERAL NOTES

PLAN KEYNOTES

DUCTWORK NOTE

SPECIFICATIONS NOTE

SEISMIC NOTE

KEYPLAN

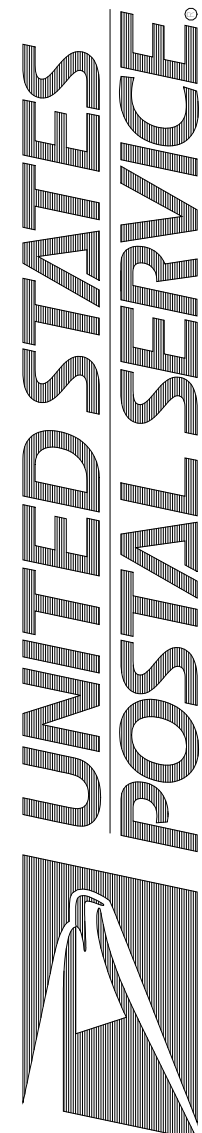


PRELIMINARY DRAFT
NOT FOR CONSTRUCTION
BID, RELIANCE,
RECORDING PURPOSES OR
IMPLEMENTATION.

PROJECT MANAGER	DESIGNER
DLL	KAB

JOB NO.
2022359.19

USPS - OLYMPIA, WA - SDC

USPS - OLYMPIA, WA
717 76TH AVENUE SW
TUMWATER WA 98501

Facilities, 4301 wilson blvd., suite 300, arlington, va 22203-1861

MECHANICAL PLAN - AREA D

M-104

Revisions: 100% OWNER REVIEW

Date: 09.06.2023

Scale:	NTS
Project:	USPS - OLYMPIA, WA - SDC
USPS File Number:	546148-G03