

BUILDING DEPARTMENT NOTES

- ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, NEW YORK CITY, EFFECTIVE DECEMBER 31ST, 2014 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE, AND MATERIALS AND EQUIPMENT SUBJECT TO SPECIAL INSPECTION.
- THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:
 - MECHANICAL SYSTEMS – BC 1704.16
 - HEATING SYSTEMS – BC 1704.25
 - FINAL INSPECTIONS – UNDER DIRECTIVE 14
- THE FOLLOWING PERIODIC SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:
 - FIRE DAMPERS – BC 109.3.4
 - FIRE-RESISTANT PENETRATIONS AND JOINTS – BC 1704.27
- TEST OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION – MC 107 AND THE FOLLOWING SECTIONS OF THE NEW YORK CITY MECHANICAL CODE:
 - VENTILATION SYSTEM BALANCING – MC 403.8
 - REFRIGERATION SYSTEMS – MC 1108 & 1109
- THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC., SHALL COMPLY WITH THE FOLLOWING CODE REFERENCE:
 - TEMPERATURE CONTROL – MC 309.1
 - NOISE CONTROL – MC 928
 - DUCT CONSTRUCTION, SUPPORT – MC 603
 - AIR FILTERS – MC 605
 - FIRE DAMPERS AND SMOKE DAMPERS AND SMOKE DETECTORS – MC 607
 - PIPING AND INSULATION – MC 1201
 - GAS FIRED EQUIPMENT – FUEL GAS CODE
- 68 DEGREE F IS THE MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON.
- VENTILATION FOR ALL AREAS SHALL COMPLY WITH MC 401
- UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR HAVING NOT LESS THAN FIVE (5) YEARS OF EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE WITH THE CERTIFICATION, A REPORT OF THE TEST, THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE. BASE BUILDING PLANS ARE FILED FOR SINGLE TENANT OCCUPANCY. ALL TENANT PLANS WILL BE FILED UNDER SEPARATE APPLICATIONS.
- DETAIL OF DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE 2014 NEW YORK CITY MECHANICAL CODE. UNLESS OTHERWISE NOTED, ALL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED IRON. SEE DETAIL FOR METHOD USED FOR HANGING DUCT.
- ALL VENTILATING AND HANGING DUCTWORK, BOTH HIGH AND LOW VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, LATEST EDITION.
- ALL FIRE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555, STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS.
- COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS SHALL BE ACCEPTED FOR USE BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555S-1983 STANDARD FOR LEAKAGE RATED DAMPERS FOR USE IN SMOKE CONTROL SYSTEMS, FIRST EDITION. EVERY FIRE/SMOKE DAMPER SHALL BE PROVIDED WITH DUCTWORK MOUNTED SMOKE DETECTOR LOCATED WITHIN FIVE FEET OF THE DAMPER. SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 716 OF THE 2014 NYC BUILDING CODE. EACH SMOKE DETECTOR SHALL BE WIRED TO FIRE ALARM SYSTEM.
- SMOKE DETECTORS, COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS SHALL BE INSTALLED AS REQUIRED TO CLOSE DAMPERS AND AUTOMATICALLY SHUT DOWN THE FAN-MC 606.
- REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.
- DESIGN LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE ANSI/ASHRAE/ACCA STANDARD 183, PEAK COOLING AND HEATING LOAD CALCULATIONS.
- EACH HEATING AND COOLING SYSTEM SHALL BE PROVIDED WITH THERMOSTATIC CONTROLS AS REQUIRED IN ASHRAE 90.1 2010 SECTION 6.4.3
- OUTDOOR AIR SUPPLY AND EXHAUST OPENINGS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT ARE CONFIGURED TO CLOSE AUTOMATICALLY WHEN SYSTEMS OR SPACES ARE NOT IN USE. DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 10 CFM/FT² WHEN TESTED IN ACCORDANCE WITH AMCA 500D.
- EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICES HAVE BEEN EQUIPPED WITH MEANS FOR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE NEW YORK CITY MECHANICAL CODE. INDIVIDUAL HYDRONIC HEATING AND COOLING COILS SHALL BE EQUIPPED WITH MEANS FOR BALANCING AND PRESSURE TESTING.
- AN OPERATION MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE.
- ALL HEATING AND HOT WATER SYSTEM PIPE INSULATION SHALL BE THERMALLY INSULATED AS PER ASHRAE STANDARD 90.1 2010 TABLE 6.8.3A.
- HOTEL MANAGEMENT SYSTEM SHALL MONITOR AND CONTROL HVAC SETPOINT FOR ALL GUEST ROOMS IN ACCORDANCE WITH THE REQUIREMENTS OF ASHRAE STANDARD 90.1 SECTION 6.4.3.3.5.
- POST-FIRE SMOKE PURGE SYSTEMS SHALL BE INSPECTED PURSUANT TO THE SPECIAL INSPECTION REQUIREMENTS OF BC 1704.16.
- ALL DUCTWORK SHALL BE INSULATED AND SEALED AS PER ASHRAE STANDARD 90.1 2010 SECTION 6.4.2.2. INSULATION VALUES ARE BELOW:

COMBINED HEATING AND COOLING SUPPLY AND RETURN DUCT INSULATION:

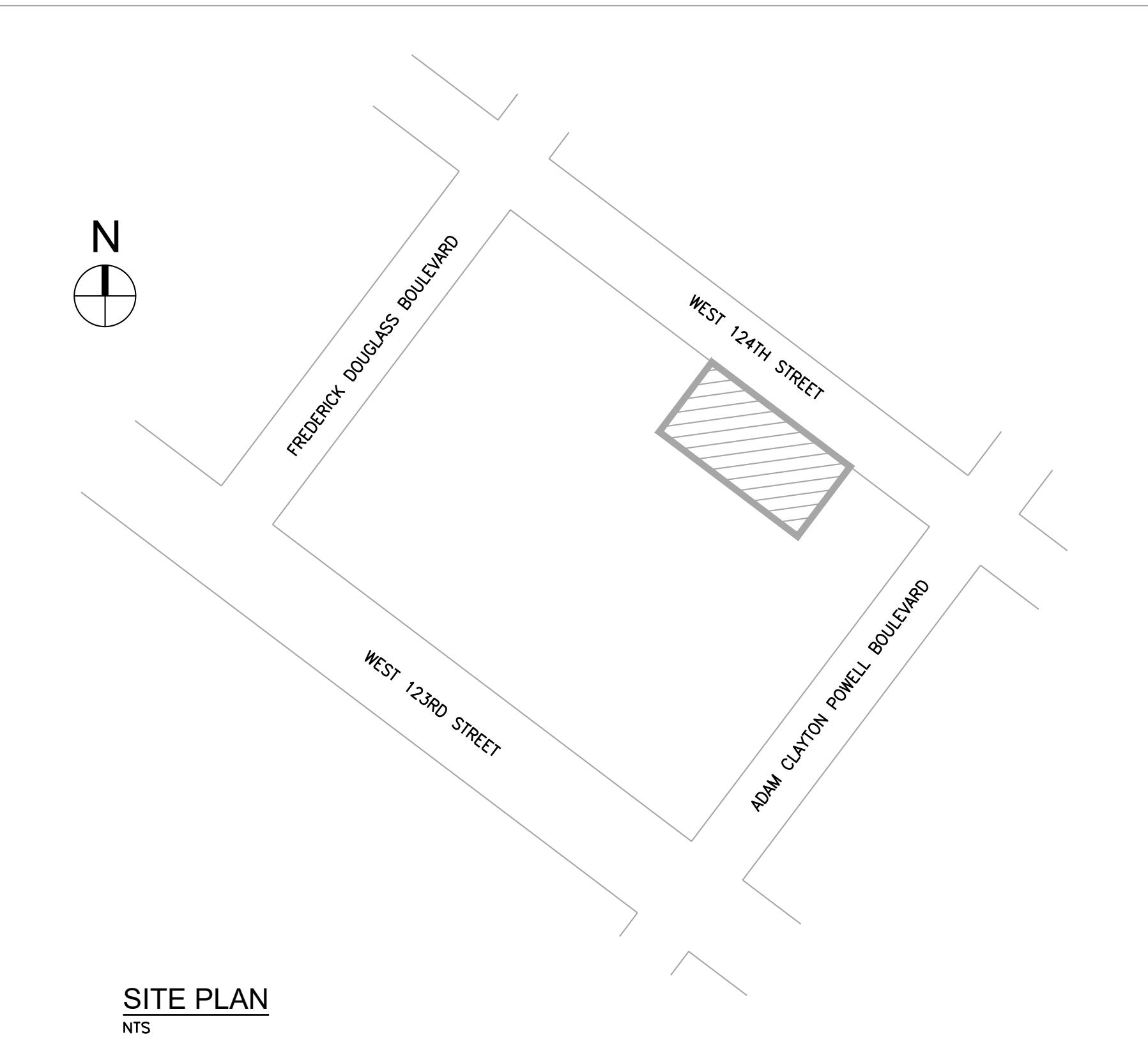
EXTERIOR SPACE	R-VALUE > 6
ATTIC	R-VALUE > 6
UNCONDITIONED SPACE	R-VALUE > 3.5
INDIRECTLY CONDITIONED SPACE	NOT REQUIRED
BURIED	R-VALUE > 3.5

MECHANICAL NOTES

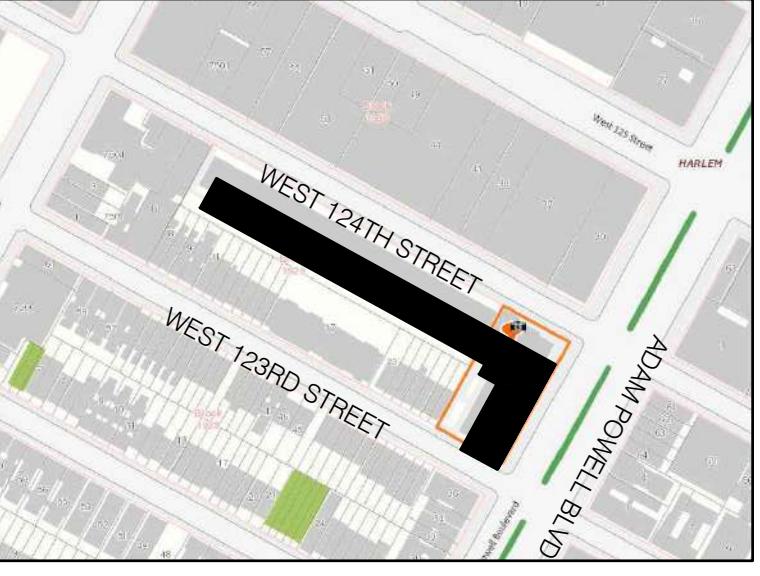
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL WORK SHALL BE COORDINATED WITH THE PROPERTY MANAGER AND BUILDING ENGINEER.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE VISITED AND EXAMINED THE PREMISES, PRIOR TO SUBMITTING HIS PROPOSAL, IN ORDER TO UNDERSTAND THE EXISTING CONDITIONS RELATED TO HIS WORK.
- MATERIALS, DOCUMENTATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND AS SPECIFIED.
- OWNER SHALL ENGAGE THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER TO PERFORM SPECIAL INSPECTIONS REQUIRED UNDER THIS CONTRACT. PROVIDE THE NAME OF A LICENSED PROFESSIONAL ENGINEER FOR APPROVAL BY MC ENGINEERING.
- ALL SHOP DRAWINGS AND ANY ADDITIONAL COORDINATION DRAWINGS AND SKETCHES OF ALL MECHANICAL ARE TO BE SUBMITTED FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNLESS APPROVALS ARE SECURED.
- PROVIDE TO OWNER, RECORD COPIES OF THE FOLLOWING:
 - BUILDING DEPARTMENT FILING DOCUMENTS
 - SPECIAL INSPECTIONS
 - AS-BUILT DRAWINGS
 - AIR BALANCE REPORTS
 - OPERATING AND MAINTENANCE MANUALS
 - EQUIPMENT USE PERMITS
 - ALL WARRANTIES AND GUARANTEES.
- CONTRACTOR TO PROTECT ALL EQUIPMENT FROM DIRT AND DEBRIS DURING CONSTRUCTION.
- ALL EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- ALL HVAC EQUIPMENT MUST HAVE AN EER RATING IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.
- CONTRACTOR TO PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR SUPPORTED EQUIPMENT UNLESS OTHERWISE INDICATED.
- VIBRATION ISOLATORS SHALL BE PROVIDED FOR ALL SUSPENDED AND FLOOR MOUNTED ROTATING EQUIPMENT AND AS SPECIFIED.
- ALL HANGERS, SUPPORTS, ETC., MUST BE INSTALLED IN CONFORMANCE WITH THE NYC CODE SEISMIC REQUIREMENTS AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- DUCTWORK, PIPING AND MECHANICAL EQUIPMENT SHALL BE INSTALLED IN NEAT AND PROFESSIONAL MANNER.
- ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATIC AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. CONTRACTOR SHALL ALLOW IN HIS PRICE THE ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT RELOCATIONS ARE SUBJECT TO APPROVAL.
- ALL DUCTWORK MUST BE COORDINATED WITH ALL TRADES AND KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN THE CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
- IF DUCTWORK CONFLICTS WITH PIPING, STEEL, LIGHT FIXTURES, ETC., DUCTWORK SHALL BE SET UP AND DOWN.
- ALL ACTIVE OPEN END DUCTWORK AND TRANSFER SLEEVES SHALL BE PROVIDED WITH WIRE MESH SCREENS.
- SEALANT SHALL BE APPLIED TO LONGITUDINAL SEAMS IN THE SHOP DURING FABRICATION. FIELD APPLY SEALANT TO TRANSVERSE SEAMS AND CONNECTIONS TO BRANCHES AND AIR OUTLETS.
- PROVIDE 1" THICK ACOUSTICAL LINING FOR SUPPLY, RETURN & EXHAUST DUCTWORK FOR A MINIMUM DISTANCE OF 15'-0" FROM ALL FANS, VAV AND AIR HANDLING UNITS.
- PROVIDE 16 GAUGE SUPPLY / RETURN DUCTWORK WITH 1" ACOUSTIC LINING FOR THE FIRST 20 FEET FROM SHAFT / MECHANICAL EQUIPMENT ROOM WITH EXTERNAL REINFORCING ANGLES 18" ON CENTER.
- PROVIDE SLOPED PANS AND DRAIN PLUGS AT ALL LOUVER PLENUMS.
- RADIUS ELBOWS ARE PREFERRED IN ALL DUCT OFFSETS (HORIZONTAL OR VERTICAL). MITRED ELBOWS WITH TURNING VANES ARE ACCEPTABLE WHERE SPACE CONSTRAINTS WILL NOT PERMIT RADIUS ELBOWS. MITERED ELBOWS WITHOUT TURNING VANES ARE NOT ACCEPTABLE EXCEPT WHERE REQUIRED FOR DRYER EXHAUST DUCTWORK.
- ALL DUCT SPLITS AND BRANCH TAKE-OFFS SHALL BE PROVIDED WITH VOLUME DAMPERS. SPLITTER DAMPERS AND AIR EXTRACTORS ARE NOT ACCEPTABLE.
- VOLUME DAMPERS IN BRANCH DUCTS SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET OR INLET IN ORDER TO REDUCE NOISE AND TURBULENCE. ALL VOLUME DAMPERS LOCATED ABOVE AN INACCESSIBLE CEILING SHALL BE CABLE OPERABLE FROM FACE OF AIR OUTLET.
- FOR EXACT LOCATIONS OF CEILING DIFFUSERS AND REGISTERS, COORDINATE WITH REFLECTED CEILING PLANS PREPARED BY ARCHITECT.
- ALL DUCT RISERS SHALL BE LEAK TESTED PRIOR TO CONCEALING WITHIN RISER SHAFT ENCLOSURE. PROVIDE TEST FANS, ORIFICES, TEMPORARY POWER AND INSTRUMENTATION IN ACCORDANCE WITH SMACNA STANDARDS AND TESTING PROCEDURES. TEST RESULTS SHALL BE SUBMITTED FOR REVIEW.
- UNLESS OTHERWISE INDICATED, THERMOSTATS SHALL BE LOCATED 4'-6" ABOVE FINISHED FLOOR. FINAL LOCATION OF THE THERMOSTATS SHALL BE COORDINATED WITH THE ARCHITECT.
- CONTRACTOR MUST PROVIDE ACCESS TO ALL CONCEALED VALVES, FIRE DAMPERS, EQUIPMENT AND ACCESSORIES FOR SERVICE, MAINTENANCE AND INSPECTION. PROVIDE ACCESS DOORS FOR COMPONENTS IN INACCESSIBLE CEILINGS AND CONCEALED IN WALLS.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND SLABS MUST BE FIRE SEALED IN ACCORDANCE WITH NYC CODE AND UL REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL NECESSARY EXPANSION JOINTS, PIPE LOOPS, OFFSETS, GUIDES AND ANCHORS TO CONTROL EXPANSION OF THE PIPE DISTRIBUTION SYSTEMS. CONTRACTOR TO SUBMIT PIPING SHOP DRAWINGS INDICATING ALL PIPE EXPANSION AND VIBRATION ISOLATORS BASED ON CONTRACTOR'S PROPOSED PIPING LAYOUT.
- IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PROVIDE VFD FOR ALL MECHANICAL EQUIPMENT SPECIFIED WITH VARIABLE FREQUENCY DRIVES. REFER TO ELECTRICAL SPECIFICATION, DIVISION 16 FOR REQUIREMENTS.

SCOPE OF WORK

MECHANICAL HEATING, COOLING, AND VENTILATION SYSTEMS FOR 18-STORY RESIDENTIAL (R-2) BUILDING.



SITE KEY MAP



BLOCK: 1929 LOT(s): 57

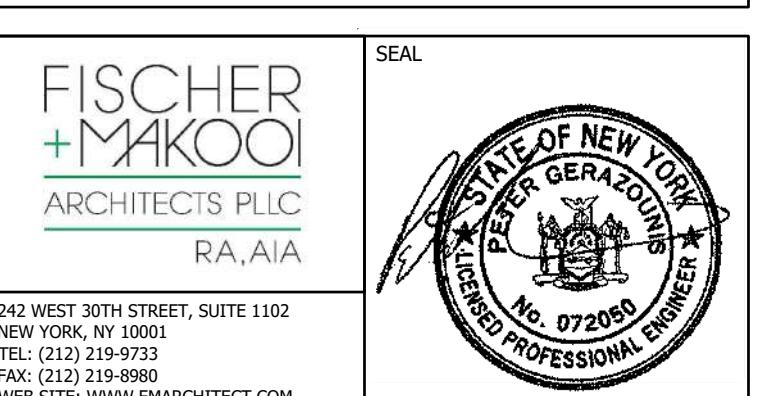
01-27-22	REISSUED FOR FILING
02-08-21	REISSUED FOR FILING
08-22-20	REISSUED FOR PRICING PACKAGE
01-17-20	ISSUED FOR MEP PROGRESS
10-23-19	ISSUED FOR MEP PROGRESS
08-29-19	ISSUED FOR PRICING
08-06-19	100% MEP DD
03-27-19	ISSUED FOR 25% CD
06-04-18	ISSUED FOR FILING
issue	rev
date	description

ISSUES/REVISONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL NOTES

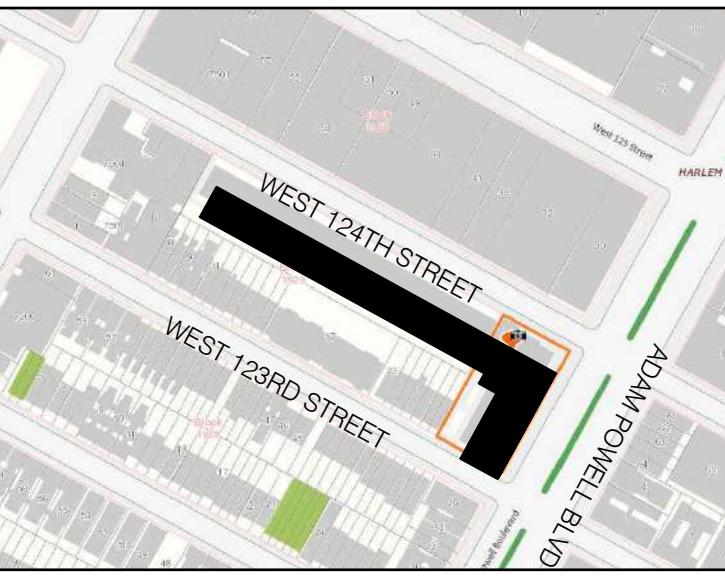
dob no
DOB NOW JOB# M00449689-I1

scale NONE project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 1 OF 43
drawn X X drawing no.
checked X X M-001.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.



BLOCK: 1929 LOT(s): 57

01-27-22	REISSUED FOR FILING		
08-22-20	REISSUED FOR PRICING PACKAGE		
01-17-20	ISSUED FOR MEP PROGRESS		
10-23-19	ISSUED FOR MEP PROGRESS		
08-29-19	ISSUED FOR PRICING		
08-06-19	100% MEP DD		
03-27-19	ISSUED FOR 25% CD		
06-04-18	ISSUED FOR FILING		
issue	rev	date	description

ISSUES/REVISONS

MEP ENGINEER:	MG ENGINEERING D.P.C.
	116 West 32nd Street New York, NY 10001 p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:	DeSimone Consulting Engineers 140 Broadway, 25th Floor New York, NY 10005 T. 212.532.2211 F. 212.481.6108
----------------------	---

CLIENT:	
---------	--

FISCHER + MAKOOLI ARCHITECTS PLLC RA, AIA	SEAL
242 WEST 30TH STREET, SUITE 1102 NEW YORK, NY 10001 TEL: (212) 219-9980 FAX: (212) 219-9980 WEB SITE: WWW.FMARCHITECT.COM	

project title	NEW RESIDENTIAL DEVELOPMENT
	224 WEST 124TH STREET, NY 10027

drawing title	MECHANICAL LEGEND AND ABBREVIATIONS
---------------	-------------------------------------

dob no	DOB NOW JOB# M00449689-I1
--------	---------------------------

scale	NONE	project no.	8049.00 (MARKET)
date	2020-09-17	sheet no.	2 OF 43
drawn	X X	drawing no.	
checked	X X		M-002.00

MECHANICAL LEGEND

SYMBOL	DEFINITION	SYMBOL	DEFINITION	SYMBOL	DEFINITION	SYMBOL	DEFINITION
	NEW WORK		AUTOMATIC TWO-WAY CONTROL VALVE		CONSOLE HEAT PUMP TYPE "A"		STRAINER WITH BLOW DOWN VALVE
	FLEXIBLE DUCT CONNECTOR		RELIEF VALVE		VERTICAL HEAT PUMP TYPE "A"		MOTORIZED 2 WAY CONTROL VALVE
	ACOUSTICALLY LINED DUCTWORK		THERMOMETER		HOT WATER SUPPLY		MOTORIZED 3 WAY CONTROL VALVE
	2-HR RATED ENCLOSURE OR FIRE WRAPPING		PRESSURE GAUGE W/GAUGE COCK		HOT WATER RETURN		SOLENOID VALVE
	VOLUME DAMPER		THERMOSTAT		CONDENSER WATER SUPPLY		REDUCER
	FIRE DAMPER		CONTROL VALVE STATION		CONDENSER WATER RETURN		FLEXIBLE PIPE CONNECTION
	BRANCH DUCT WITH VOLUME DAMPER		SMOKE DETECTOR		AC CONDENSATE PUMP DISCHARGE		PRESSURE TAPPING WITH 100mm DIAL GAUGE
	SUPPLY DUCT UP		PRESSURE SWITCH		COLD WATER MAKE UP LINE		VENT LINE
	SUPPLY DUCT DOWN		PRESSURE SENSOR				CAPPED PIPE WITH SHUT OFF VALVE
	EXHAUST OR RETURN DUCT UP		DIRECTION OF PIPE PITCH (DOWN)				STRAINER BASKET TYPE
	EXHAUST OR RETURN DUCT DOWN		DIRECTION OF FLOW				FLOW SWITCH
	SLOPING RISE IN DUCT IN DIRECTION OF ARROW		ANCHOR		PIPE UP		TEMPERATURE SENSOR
	SLOPING DROP IN DUCT IN DIRECTION OF ARROW		REDUCER OR INCREASER		PIPE DOWN		HOSE TAP/COCK
	DUCT SIZE - FIRST SIZE INDICATES PLAN SIZE		ECCENTRIC REDUCER		BRANCH DOWN		BALL VALVE
	ACCESS DOOR IN DUCT		TOP CONNECTION, 45° OR 90°		BRANCH UP		ISOLATION VALVE
	DUCT SMOKE DETECTOR		BOTTOM CONNECTION, 45° OR 90°		ANCHOR POINT		PUMP
	MOTORIZED DAMPER		SIDE CONNECTION		FLANGED CONNECTION		UNDERCUT
	FIRE SMOKE DAMPER		CAPPED OUTLET		BLIND FLANGE		LOUVER IN DOOR
			RISE OR DROP IN PIPE		SHUTOFF VALVE		CORRIDOR SUPPLY RISER NO.1
	ELBOW WITH TURNING VANES		UNION		LUBRICATED PLUG VALVE		REFUSE/COMPACTOR RM. EXHAUST RISER NO.1
			CO2 DETECTOR		BALL VALVE		TOILET EXHAUST RISER NO.1
	CEILING DIFFUSER		WATER FLOW MEASURING DEVICE		CHECK VALVE		KITCHEN EXHAUST RISER NO.1
	CEILING RETURN/EXHAUST GRILLE OR REGISTER		BUTTERFLY VALVE		AUTOMATIC THREE-WAY CONTROL VALVE		HEATPUMP WATER LOOP RISER NO.1

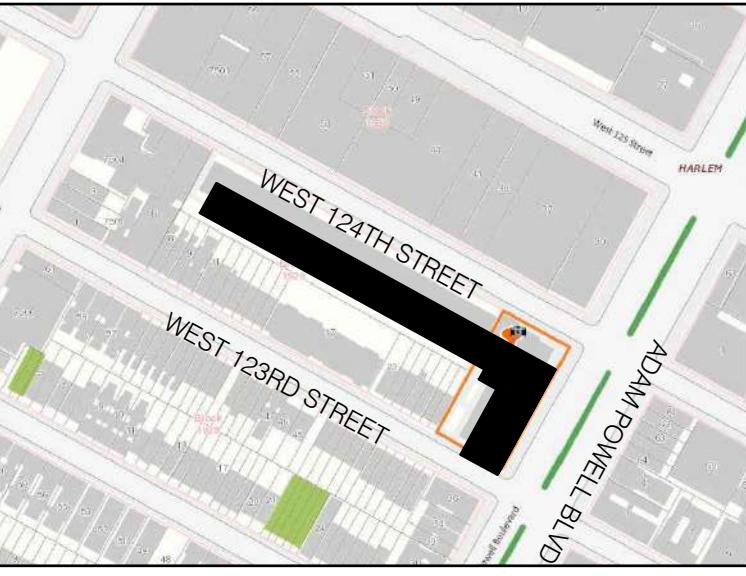
ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	CWR	CONDENSER WATER RETURN	GPM	GALLONS PER MINUTE	MFS	MAXIMUM FUSE SIZE	RLA	RUNNING LOAD AMPS	WMS	WIRE MESH SCREEN
AD	ACCESS DOOR	COD	CABLE OPERATED DAMPERS	HTG	HEATING	MHP	MOTOR HORSEPOWER	SR	SUPPLY REGISTER	WC	WATER COLUMN
BHP	BRAKE HORSEPOWER	DN	DOWN	HZ	HERTZ	MIN	MINIMUM	SEN	SENSIBLE	WPD	WATER PRESSURE DROP
BR	BOTTOM REGISTER	EAT	ENTERING AIR TEMPERATURE	HWS	HOT WATER SUPPLY	MOCP	MAXIMUM OVERCURRENT PROTECTION	TX	TOILET EXHAUST		
BG	BOTTOM GRILLE	ESP	EXTERNAL STATIC PRESSURE	HWR	HOT WATER RETURN	MD	MOTORIZED DAMPER	TYP	TYPICAL		
B-1	BOILER No.1	EWT	ENTERING WATER TEMPERATURE	KW	KILOWATT	OA	OUTDOOR AIR	TR	TOP REGISTER		
CFM	CUBIC FEET OF AIR PER MINUTE	EBH	ELECTRIC BASEBOARD HEATER	LAT	LEAVING AIR TEMPERATURE	OAI	OUTSIDE AIR INTAKE	TG	TOP GRILLE		
CKT	CIRCUIT	FSD	COMBINATION FIRE SMOKE DAMPER	LB/HR	POUNDS PER HOUR	PD	PRESSURE DROP	TSP	TOTAL STATIC PRESSURE		
CM	CEILING MOUNTED	FLA	FULL LOAD AMPERES	LBS	POUNDS	PH	PHASE	TX-1	TOILET EXHAUST FAN No.1		
COD	CORD OPERATED DAMPER	FLR	FLOOR	LD	LINEAR DIFFUSER	P-1	PUMP No.1	TO	TRANSFER OPENING		
CG	CEILING GRILLE	FT	FEET	LRA	LOCKED ROTOR AMPS	RG	RETURN GRILLE	VD	VOLUME DAMPER		
CD	CEILING DIFFUSER	FD	FIRE DAMPER	LWT	LEAVING WATER TEMPERATURE						
CR	CEILING REGISTER	FD/AD	FIRE DAMPER W/ ACCESS DOOR	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR						
CWS	CONDENSER WATER SUPPLY	FC	FLEXIBLE CONNECTION	MCA	MINIMUM CIRCUIT AMPACITY						

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.
MGE

 MGE Engineering D.P.C., we engineer success
 116 West 32nd Street, 12th Floor, New York, NY 10001
 P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

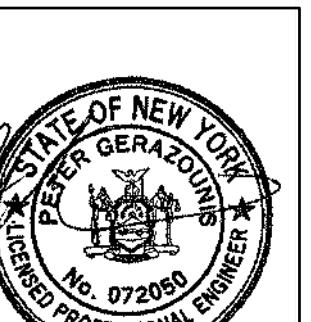
ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOOI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.MARCHITECT.COM



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
**CELLAR FLOOR
MECHANICAL
PLAN**

dob no
DOB NOW JOB# M00449689-I1

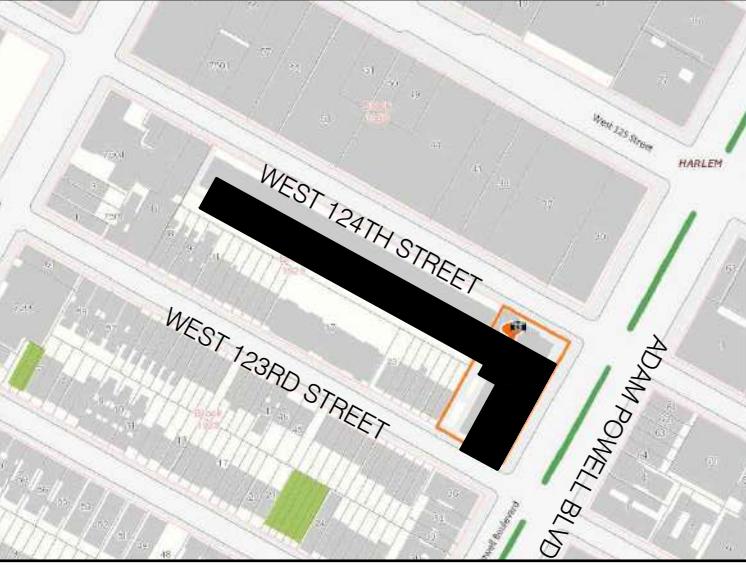
scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 3 OF 43
drawn X X drawing no.
checked X X M-100.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

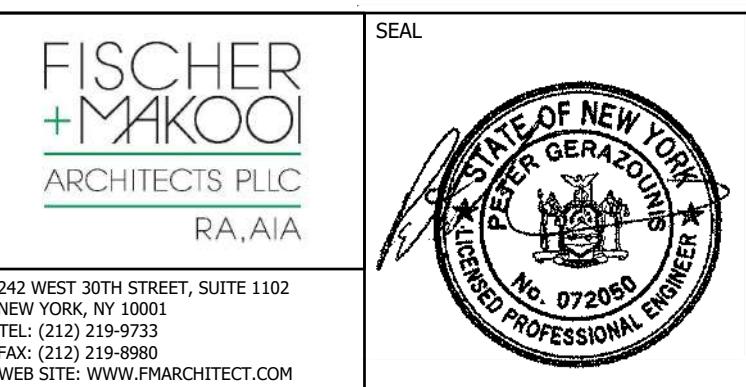
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

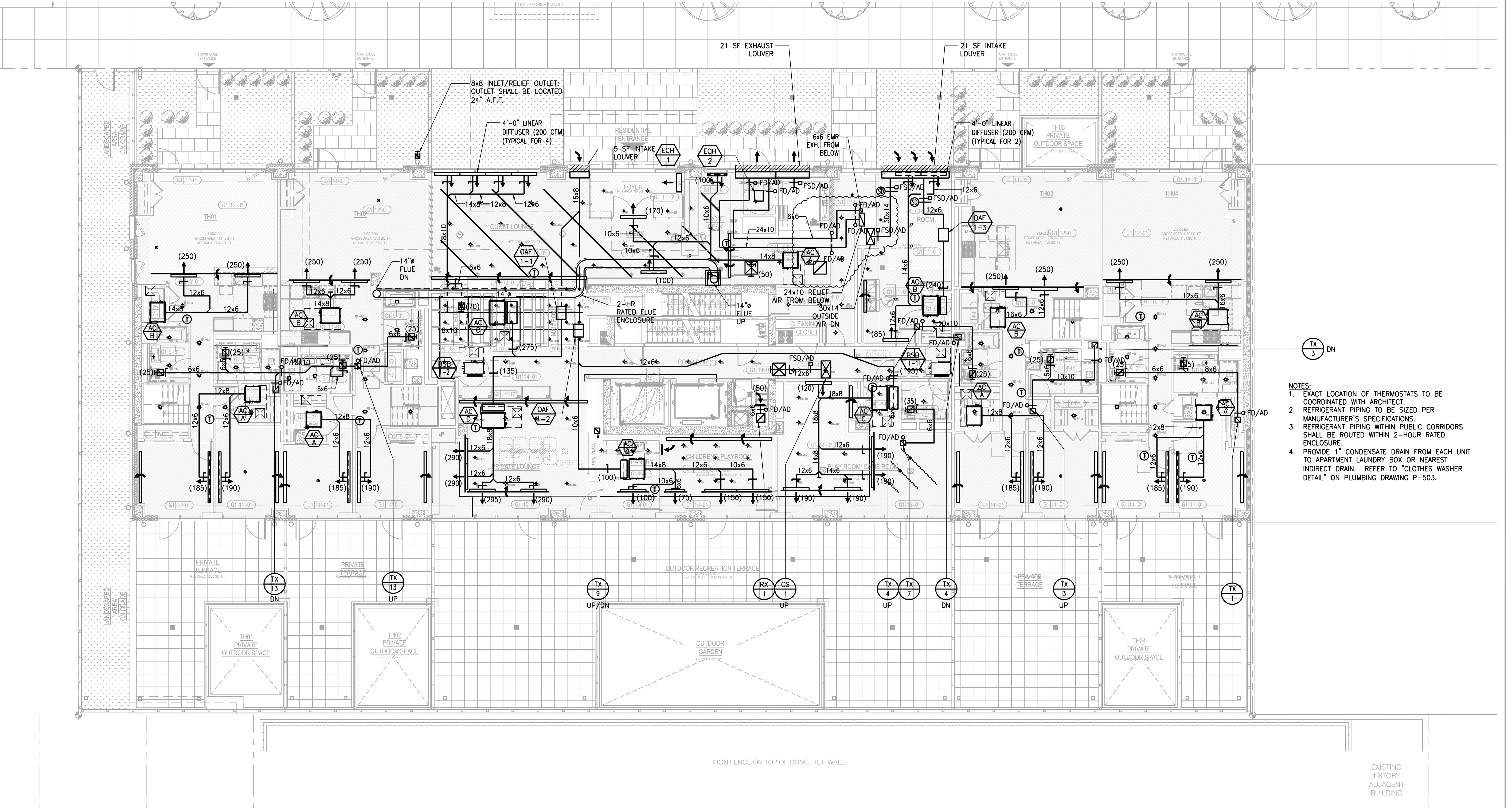


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
1ST FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0"	project no. 8049.00 (MARKET)
date 2020-09-17	sheet no. 4 OF 43
drawn X X	drawing no. M-101.00
checked X X	

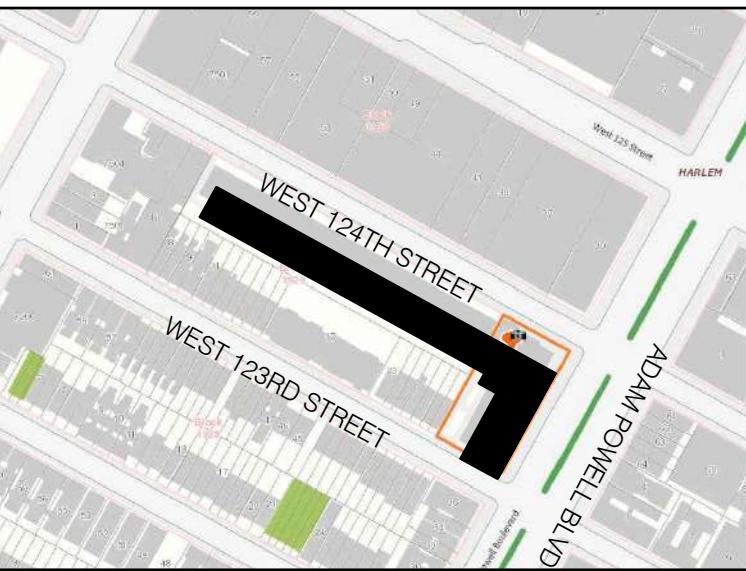


NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:

MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:

DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title

NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title

2ND FLOOR MECHANICAL PLAN

dob no

DOB NOW JOB# M00449689-I1

scale

1/8" = 1'-0"

project no.
8049.00 (MARKET)

date

2020-09-17

sheet no.
5 OF 43

drawn

X X

drawing no.

checked

X X

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

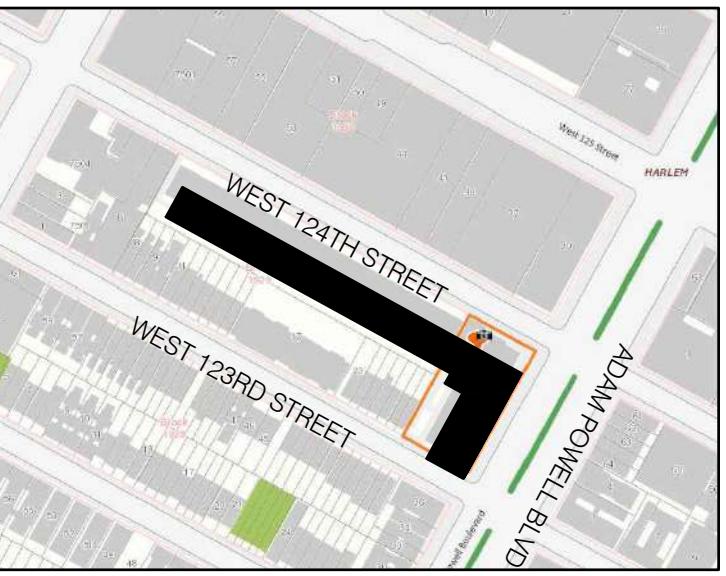
NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

M-102.00

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOOLI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.FMARCHITECT.COM

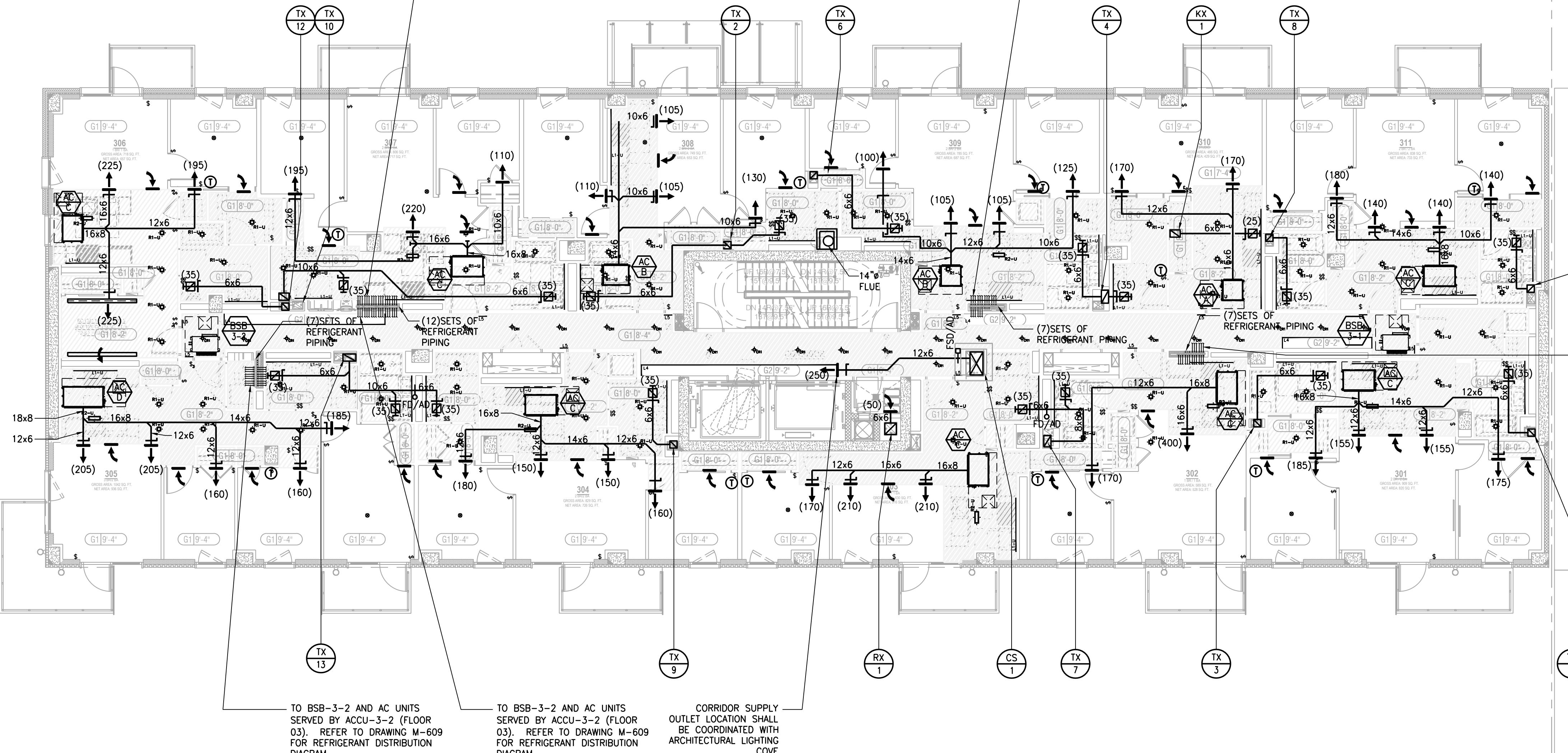


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
3RD FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 6 OF 43
drawn X X drawing no.
checked X X M-103.00

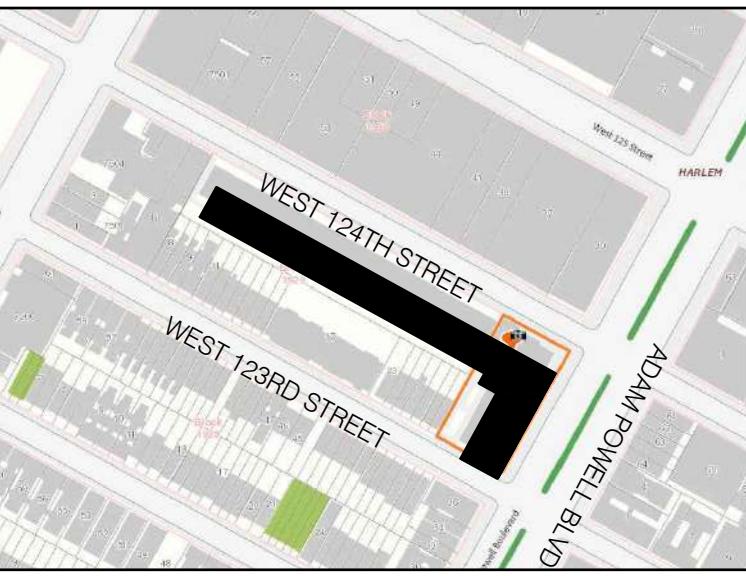
TO BSB-3-2 AND AC UNITS
SERVED BY ACCU-3-2 (FLOOR
03). REFER TO DRAWING M-609
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-3-1 AND AC UNITS
SERVED BY ACCU-3-1 (FLOOR
03). REFER TO DRAWING M-607
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

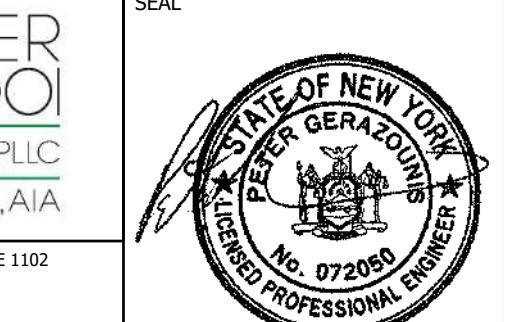
MEP ENGINEER:

MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:

DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title

NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title

4TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

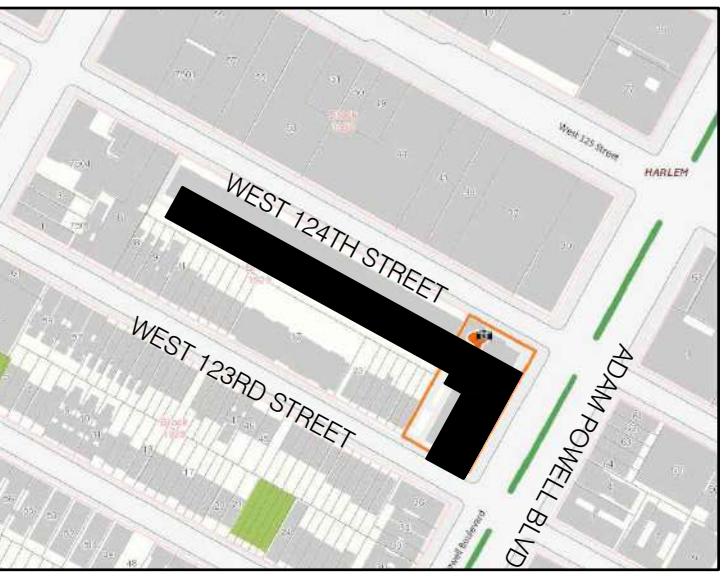
scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 7 OF 43
drawn X X drawing no.
checked X X M-104.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

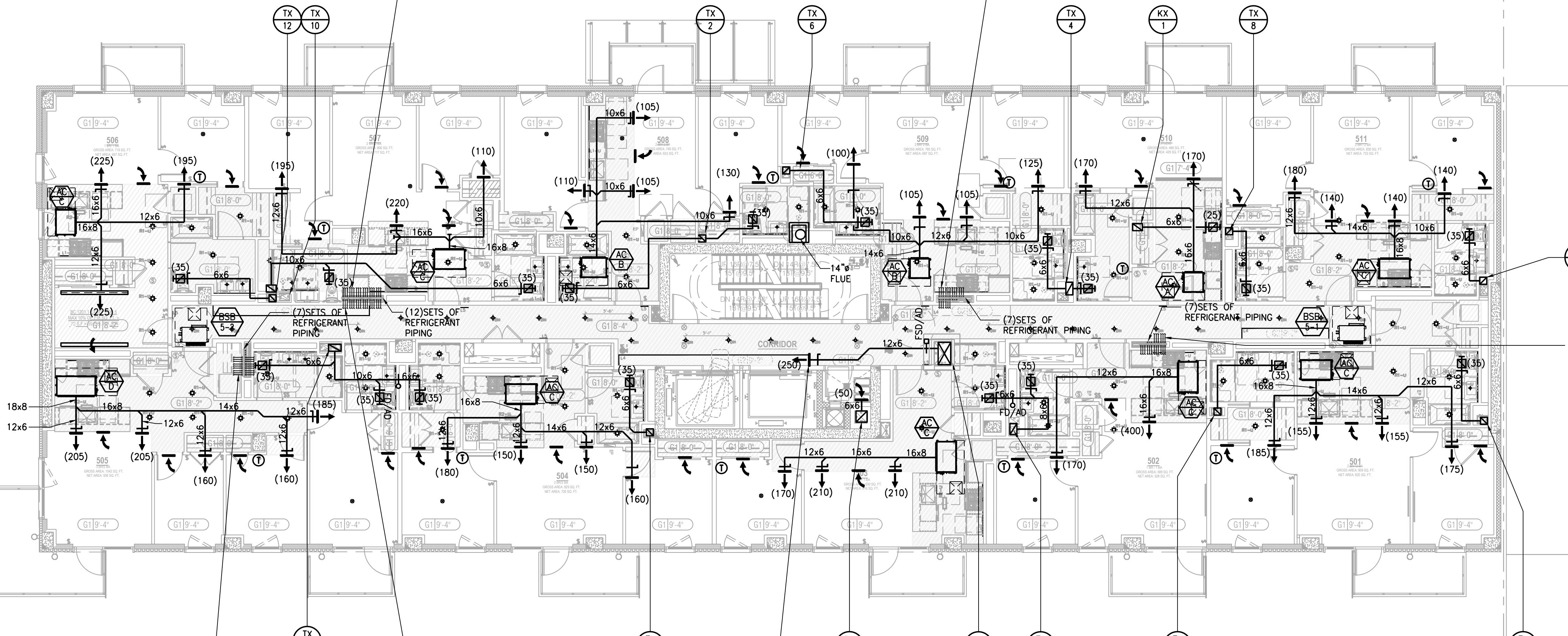


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

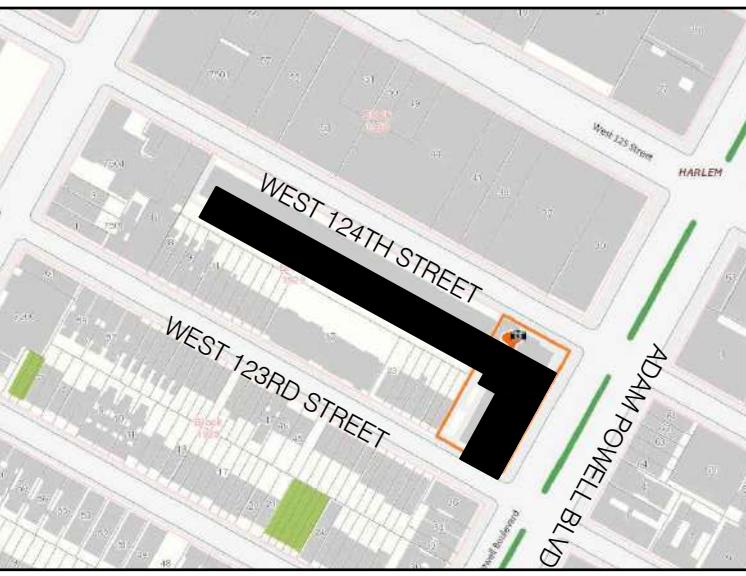
drawing title
5TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 8 OF 43
drawn X X drawing no.
checked X X M-105.00

TO BSB-5-2 AND AC UNITS
SERVED BY ACCU-5-2 (FLOOR
05). REFER TO DRAWING M-609
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-5-1 AND AC UNITS
SERVED BY ACCU-5-1 (FLOOR
05). REFER TO DRAWING M-607
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

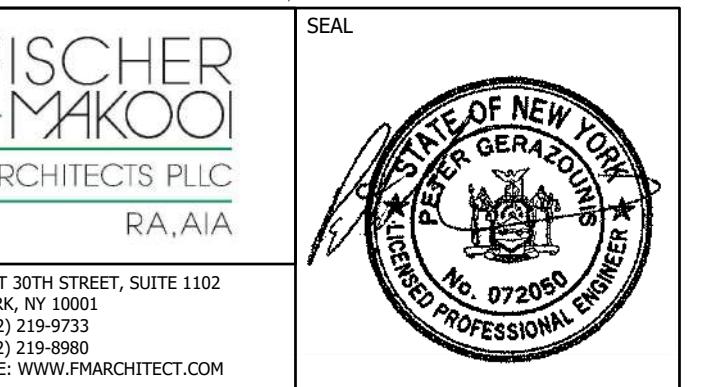
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title

NEW RESIDENTIAL DEVELOPMENT

drawing title

6TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 9 OF 43
drawn X X drawing no.
checked X X M-106.00

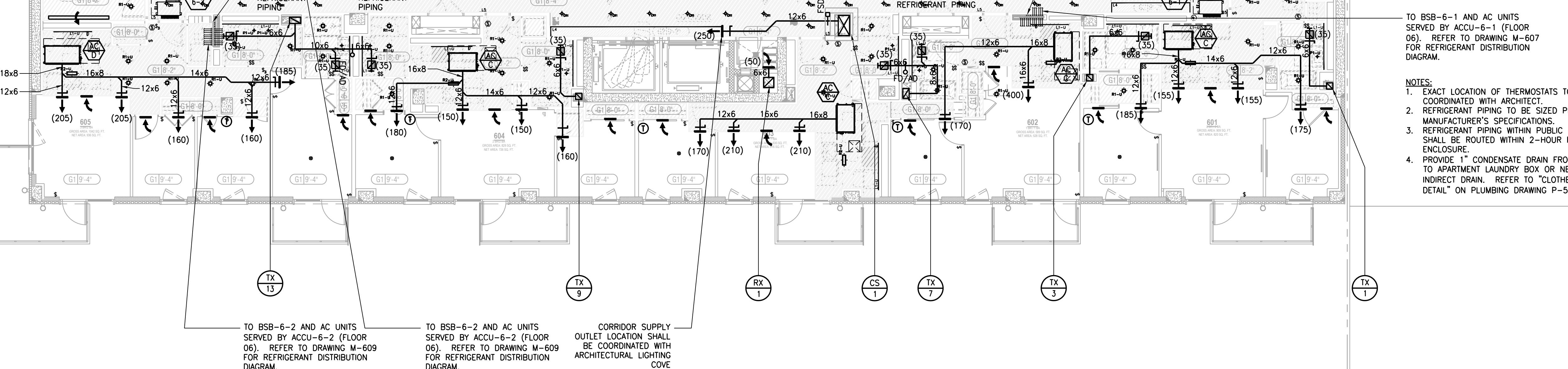
TO BSB-6-2 AND AC UNITS
SERVED BY ACCU-6-2 (FLOOR
06). REFER TO DRAWING M-609
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-6-1 AND AC UNITS
SERVED BY ACCU-6-1 (FLOOR
06). REFER TO DRAWING M-607
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION
SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED
UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE
WITH APPLICABLE CODES.

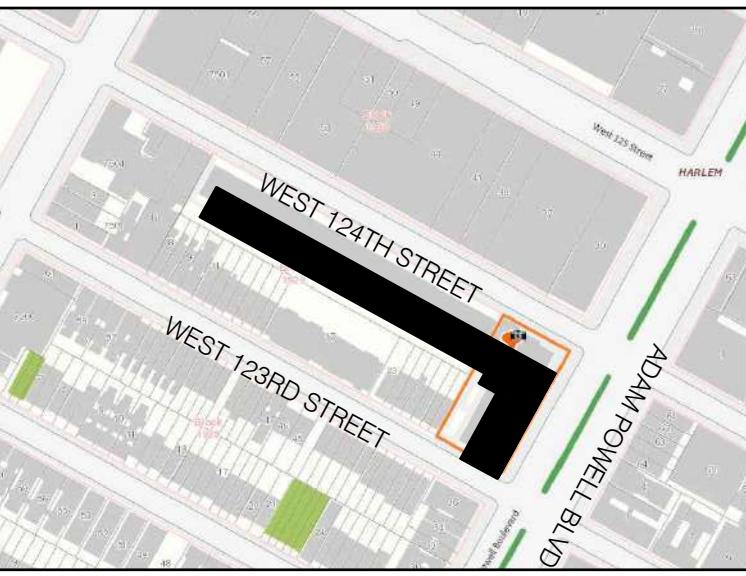
NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW
YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

IRON FENCE ON TOP OF CONC. RET. WALL

EXISTING
1 STORY
ADJACENT
BUILDINGCORRIDOR SUPPLY
OUTLET LOCATION SHALL
BE COORDINATED WITH
ARCHITECTURAL LIGHTING
COVE

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOOLI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.FMARCHITECT.COM

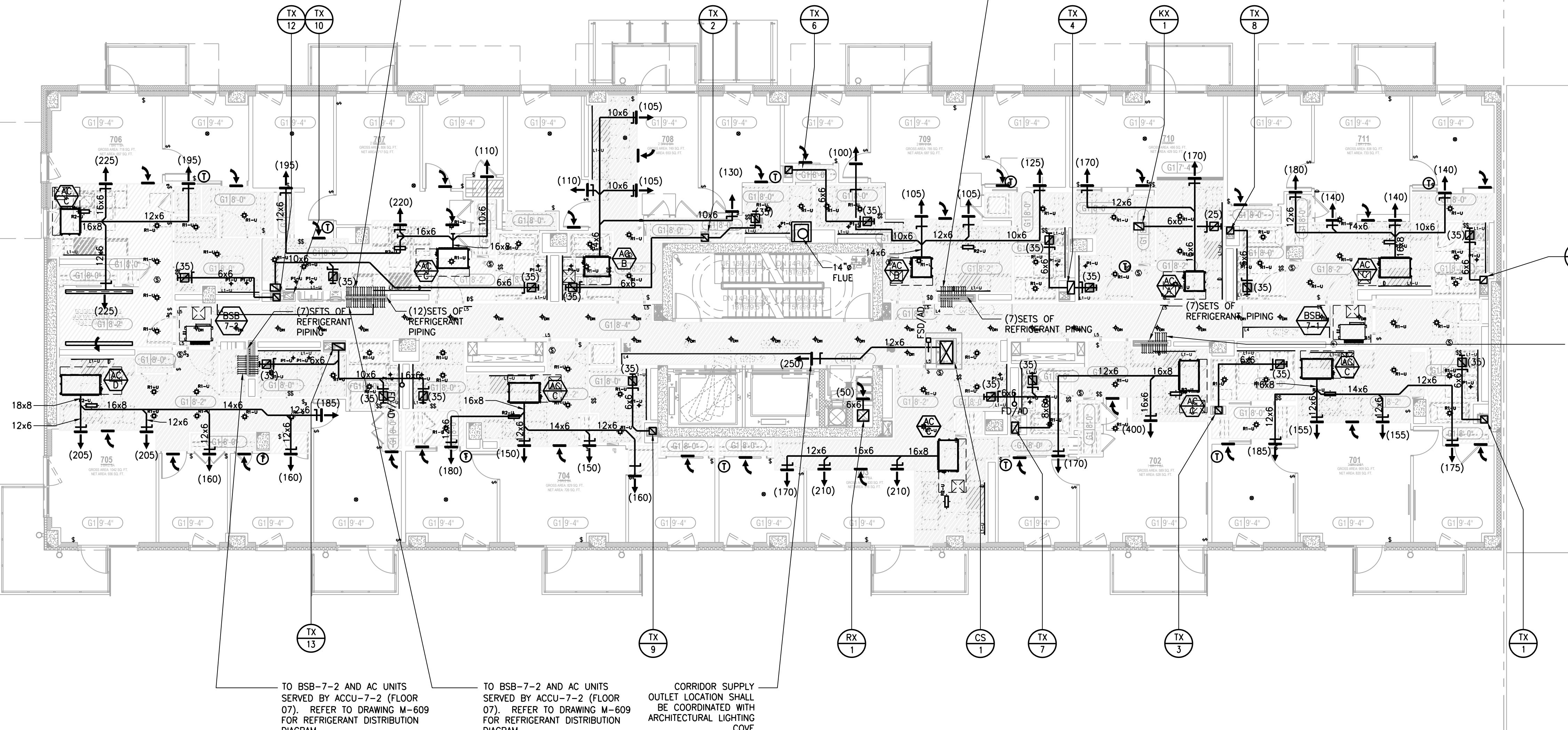


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

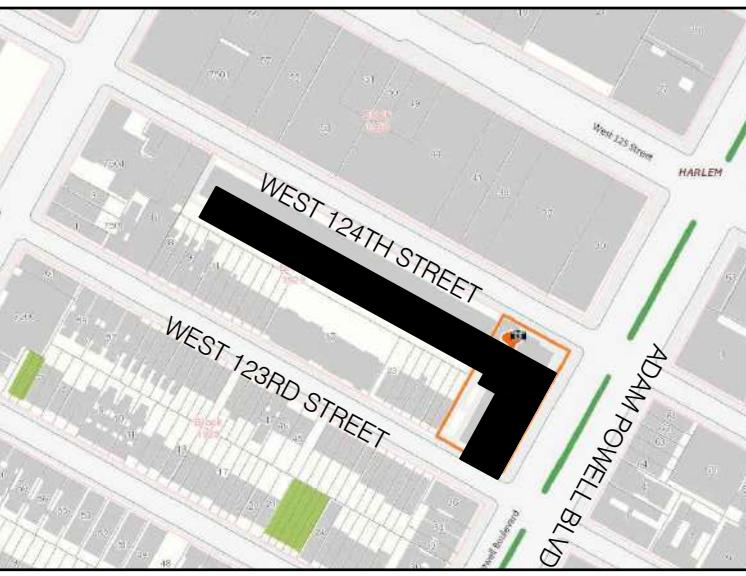
drawing title
7TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 10 OF 43
drawn X X drawing no.
checked X X M-107.00

TO BSB-7-2 AND AC UNITS
SERVED BY ACCU-7-2 (FLOOR
07). REFER TO DRAWING M-609
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-7-1 AND AC UNITS
SERVED BY ACCU-7-1 (FLOOR
07). REFER TO DRAWING M-607
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

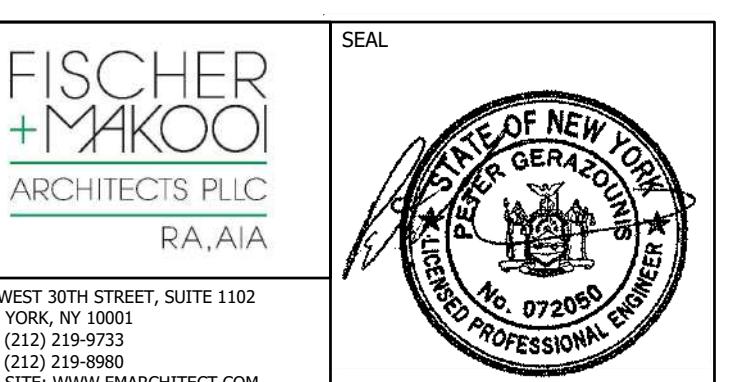
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

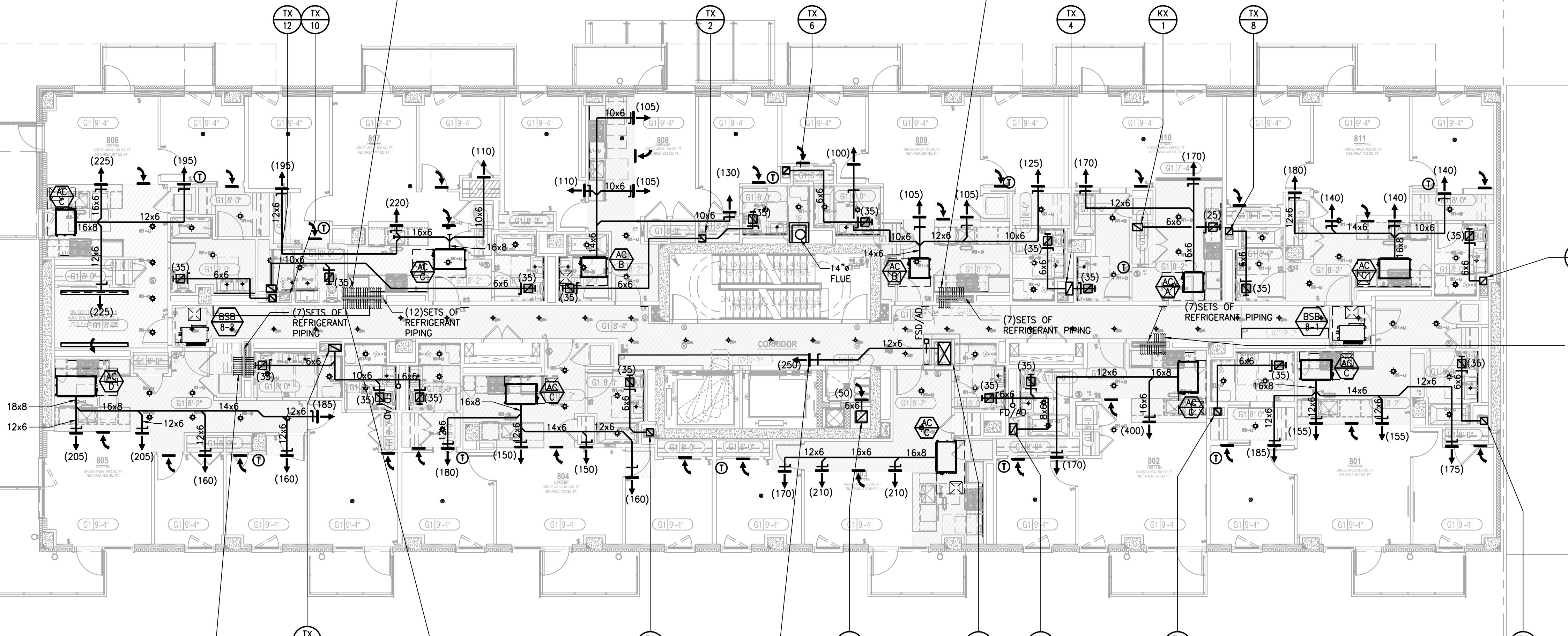


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

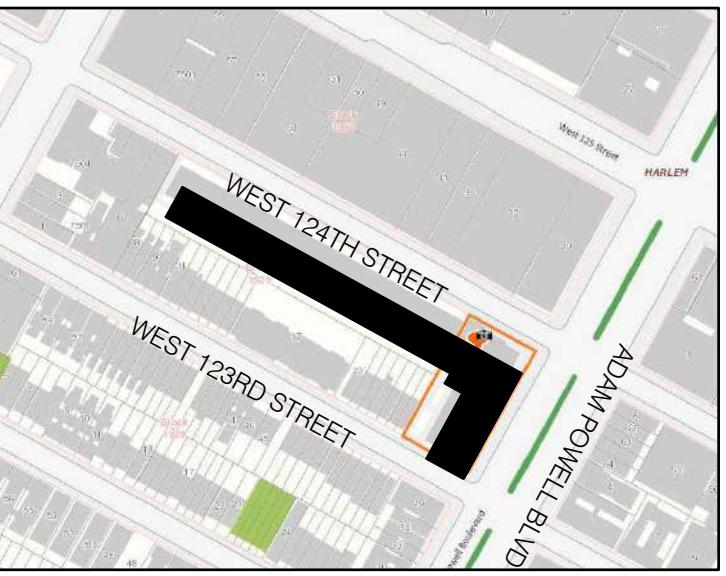
drawing title
8TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 11 OF 43
drawn X X drawing no.
checked X X M-108.00

TO BSB-8-2 AND AC UNITS
SERVED BY ACCU-8-2 (FLOOR
08). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-8-1 AND AC UNITS
SERVED BY ACCU-8-1 (FLOOR
08). REFER TO DRAWING M-606
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOOLI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.FMARCHITECT.COM

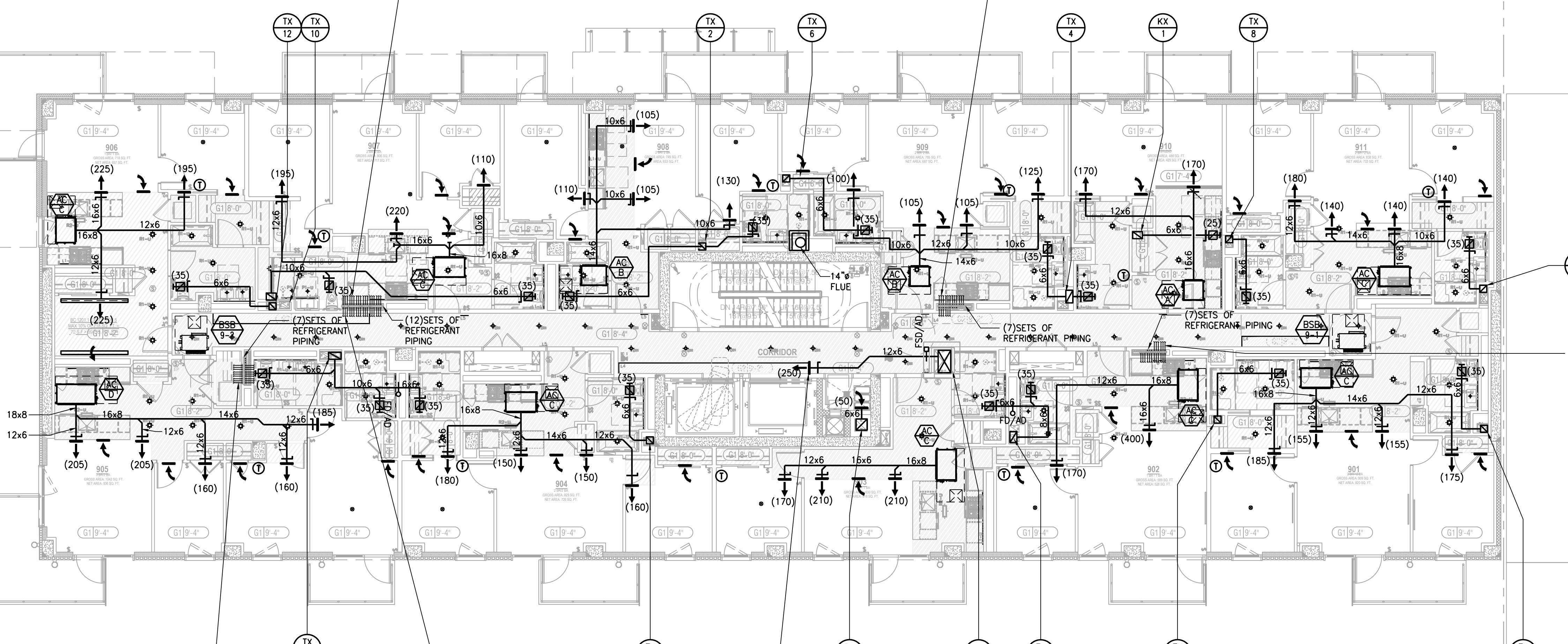


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

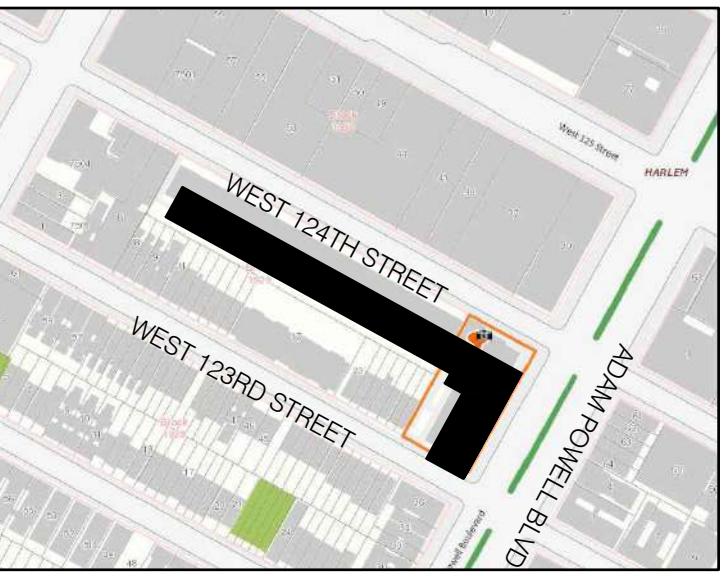
drawing title
9TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale no
1/8" = 1'-0" project no
8049.00 (MARKET)
date 2020-09-17 sheet no
12 OF 43
drawn X X drawing no.
checked X X M-109.00

TO BSB-9-2 AND AC UNITS
SERVED BY ACCU-9-2 (FLOOR
09). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-9-1 AND AC UNITS
SERVED BY ACCU-9-1 (FLOOR
09). REFER TO DRAWING M-606
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

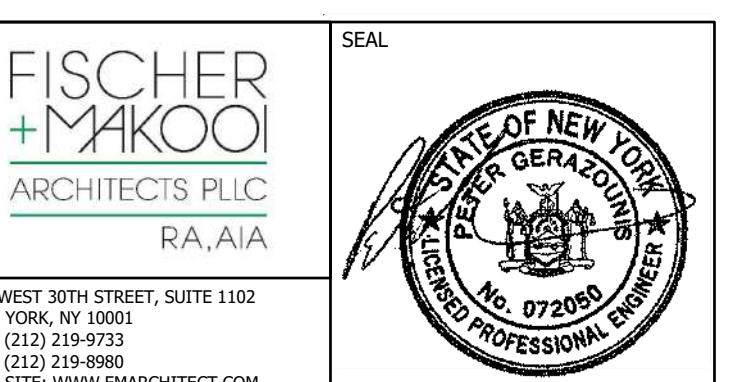
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

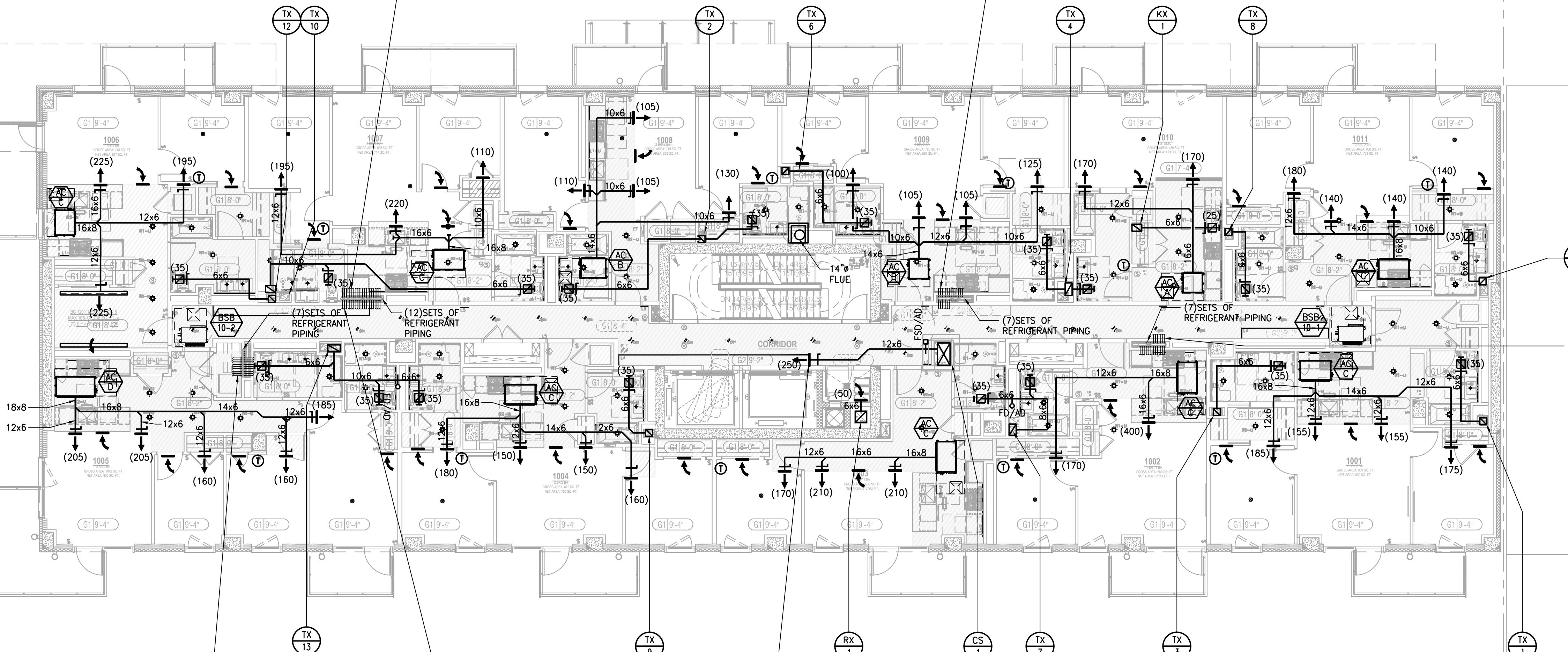


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
10TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale no
1/8" = 1'-0" project no
8049.00 (MARKET)
date 2020-09-17 sheet no
13 OF 43
drawn X X drawing no.
checked X X M-110.00

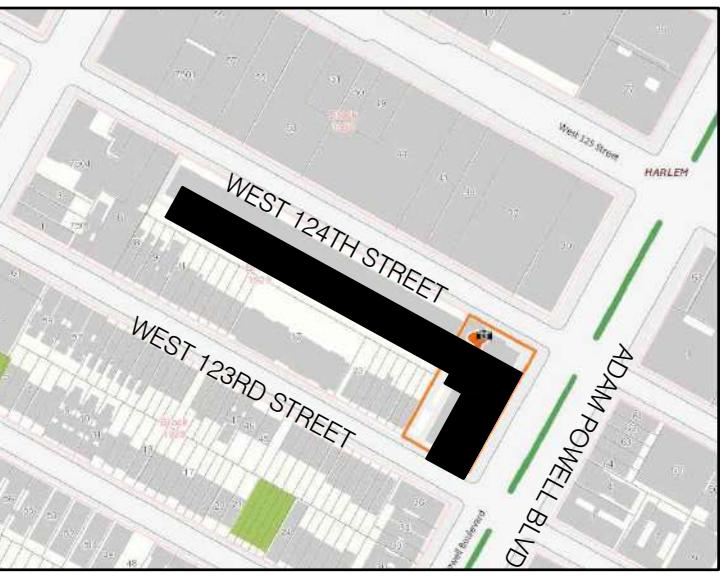
TO BSB-10-2 AND AC UNITS
SERVED BY ACCU-10-2 (FLOOR
10). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-10-1 AND AC UNITS
SERVED BY ACCU-10-1 (FLOOR
10). REFER TO DRAWING M-606
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

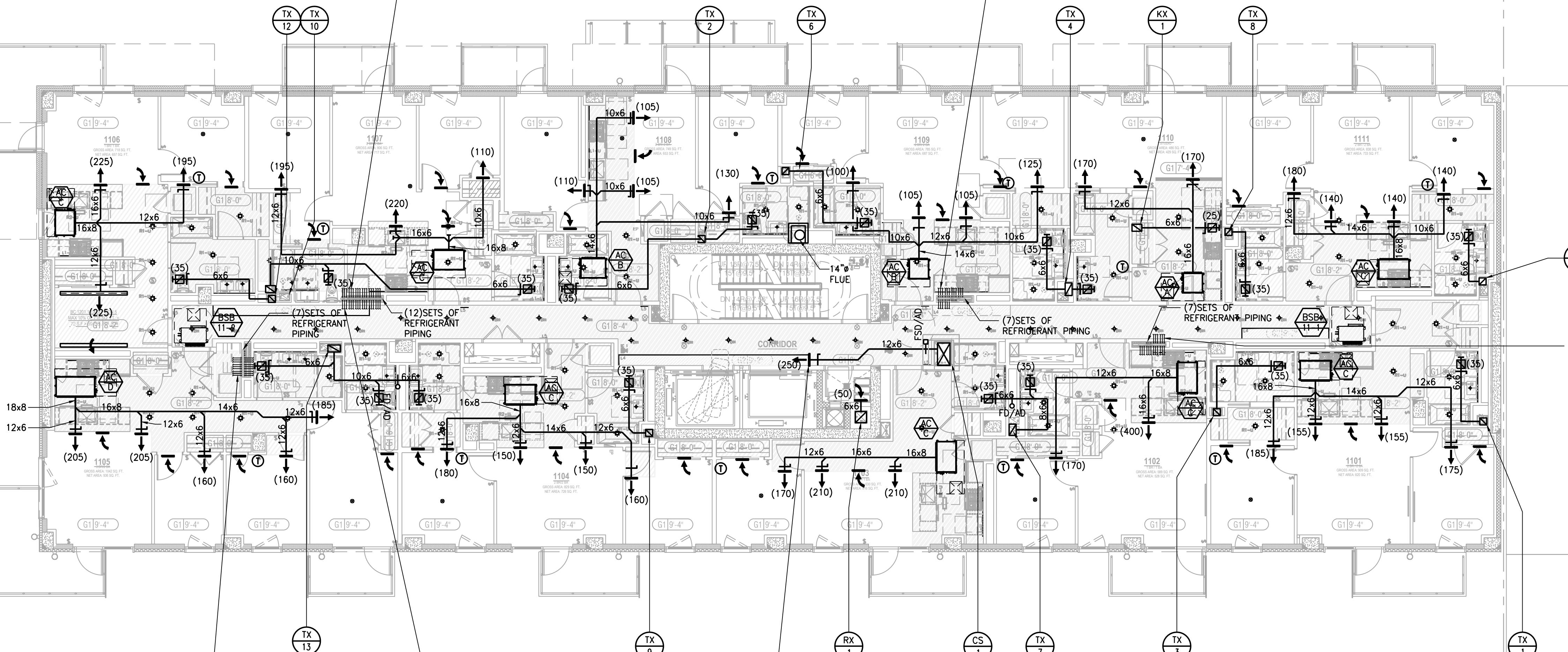


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
11TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale no
1/8" = 1'-0" project no
8049.00 (MARKET)
date 2020-09-17 sheet no.
drawn X X 14 OF 43 drawing no.
checked X X M-111.00

TO BSB-11-2 AND AC UNITS
SERVED BY ACCU-11-2 (FLOOR
11). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-11-1 AND AC UNITS
SERVED BY ACCU-11-1 (FLOOR
11). REFER TO DRAWING M-606
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-11-2 AND AC UNITS
SERVED BY ACCU-11-2 (FLOOR
11). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-11-2 AND AC UNITS
SERVED BY ACCU-11-2 (FLOOR
11). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.CORRIDOR SUPPLY
OUTLET LOCATION SHALL
BE COORDINATED WITH
ARCHITECTURAL LIGHTING
COVE

IRON FENCE ON TOP OF CONC. RET. WALL

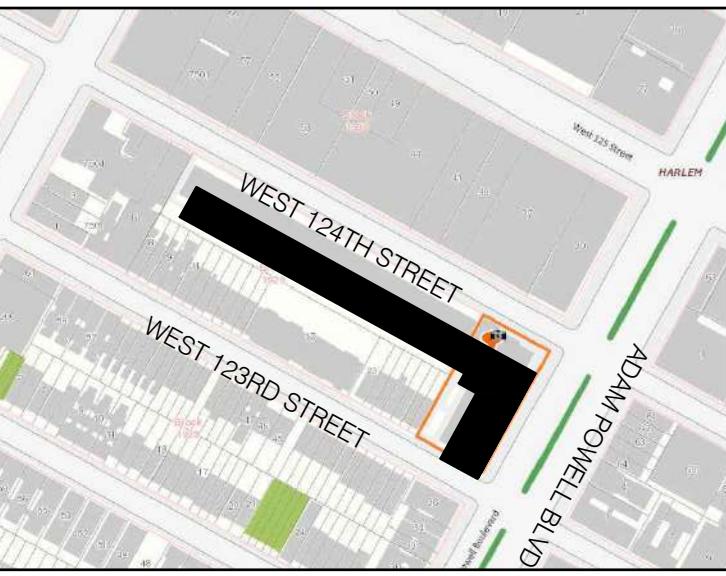


NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION
SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED
UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE
WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW
YORK CITY ENERGY CONSERVATION CODE.



SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

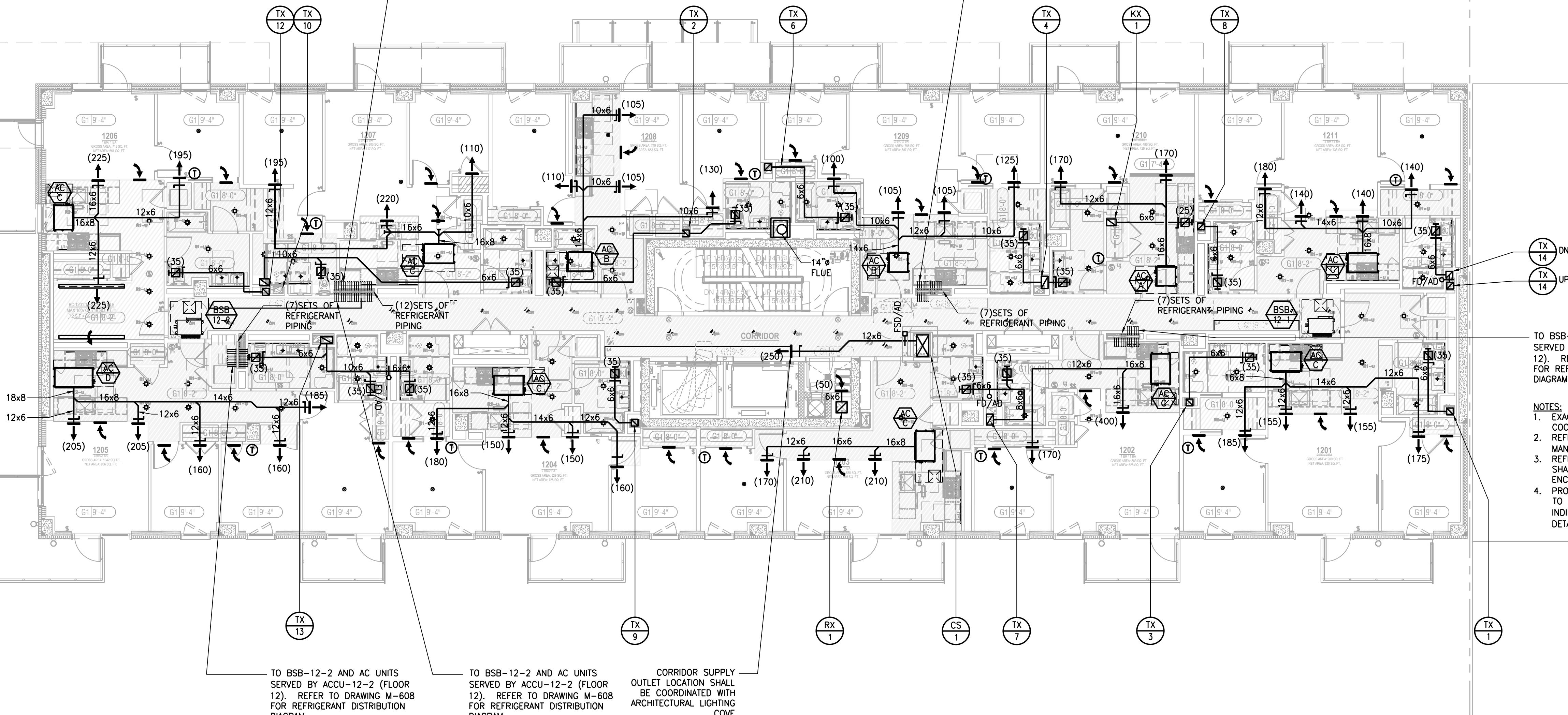


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
12TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale no
1/8" = 1'-0" project no
8049.00 (MARKET)
date 2020-09-17 sheet no
15 OF 43
drawn X X drawing no.
checked X X M-112.00

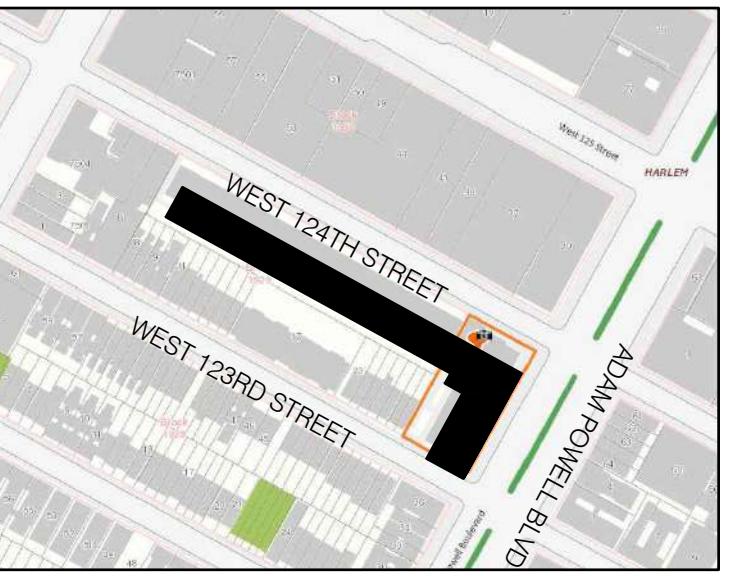
TO BSB-12-2 AND AC UNITS
SERVED BY ACCU-12-2 (FLOOR
12). REFER TO DRAWING M-608
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.TO BSB-12-1 AND AC UNITS
SERVED BY ACCU-12-1 (FLOOR
12). REFER TO DRAWING M-606
FOR REFRIGERANT DISTRIBUTION
DIAGRAM.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

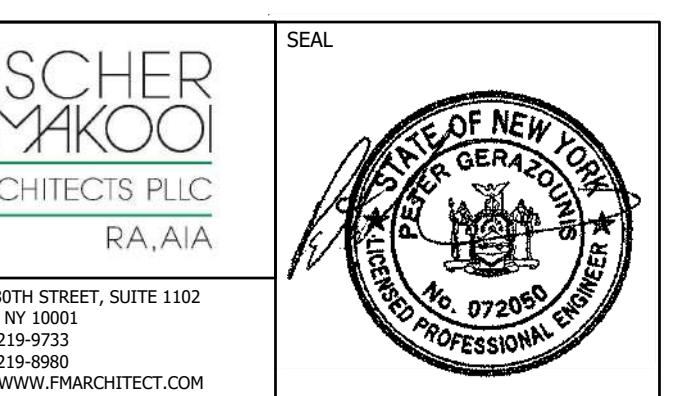
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

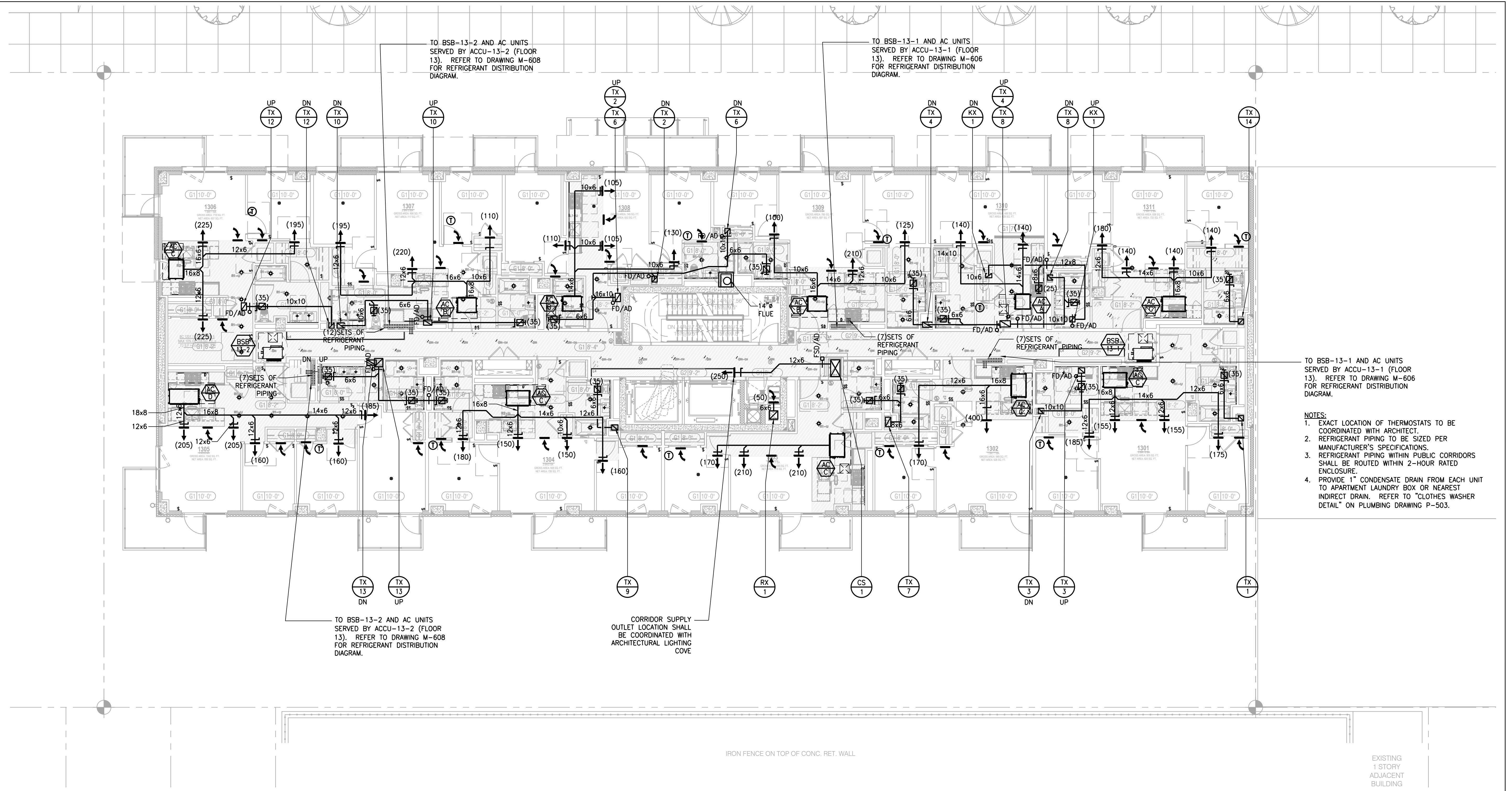


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
13TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

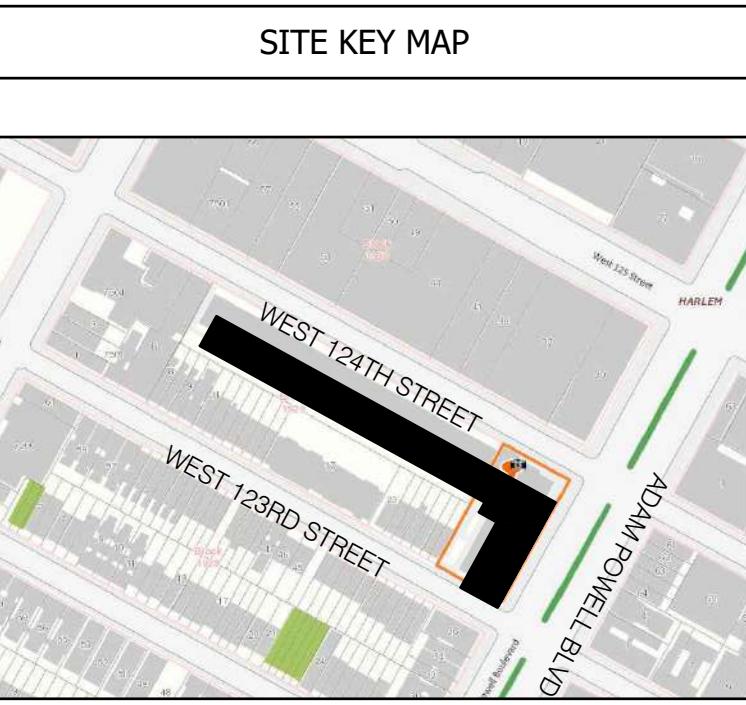
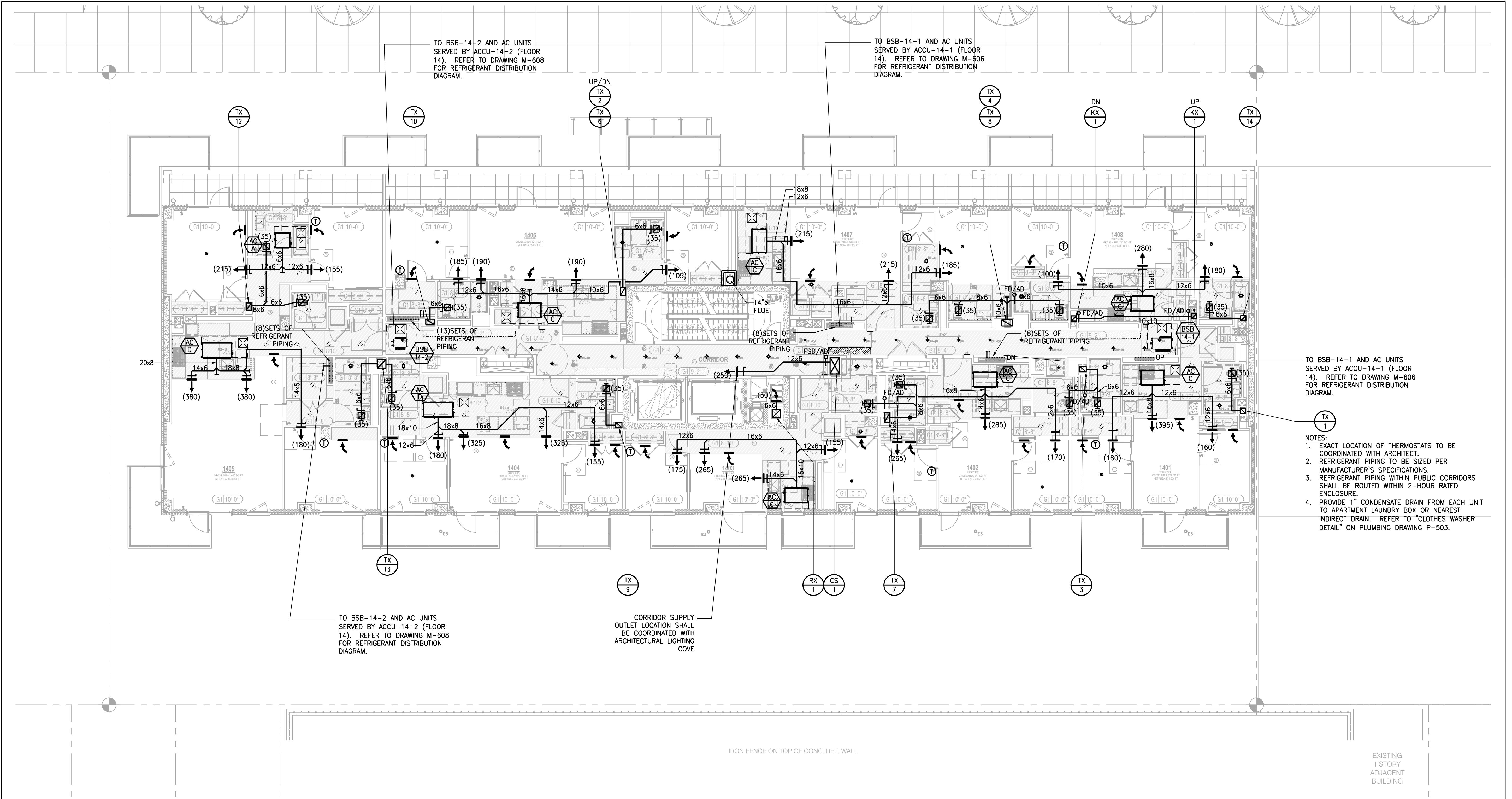
scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 16 OF 43
drawn X X drawing no.
checked X X M-113.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



SITE KEY MAP

BLOCK: 1929 LOT(s): 57

issue	rev	date	description
		01-27-22	REISSUED FOR FILING
		01-27-21	REISSUED FOR FILING
		01-17-20	ISSUED FOR MEP PROGRESS
		10-23-19	ISSUED FOR MEP PROGRESS
		08-29-19	ISSUED FOR PRICING
		08-06-19	100% MEP DD
		03-27-19	ISSUED FOR 25% CD
		06-04-18	ISSUED FOR FILING

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p. 212.643.0055 f. 212.643.0503

STRUCTURAL ENGINEER: DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211

CLIENT:

FISCHER
+
MAKOOI
ARCHITECTS PLLC
RA, AIA

SEAL

STATE OF NEW YORK
PETER GERAZOUNIS
LICENSED PROFESSIONAL ENGINEER
No. 072050

project title

NEW RESIDENTIAL DEVELOPMENT

**14TH FLOOR
MECHANICAL
PLAN**

DOB NOW JOB# M00449689-I1	
scale 1/8" = 1'-0"	project no. 8049.00 (MARKET)
date 2020-09-17	sheet no. 17 OF 43
drawn X X	drawing no.
checked X X	M-114.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

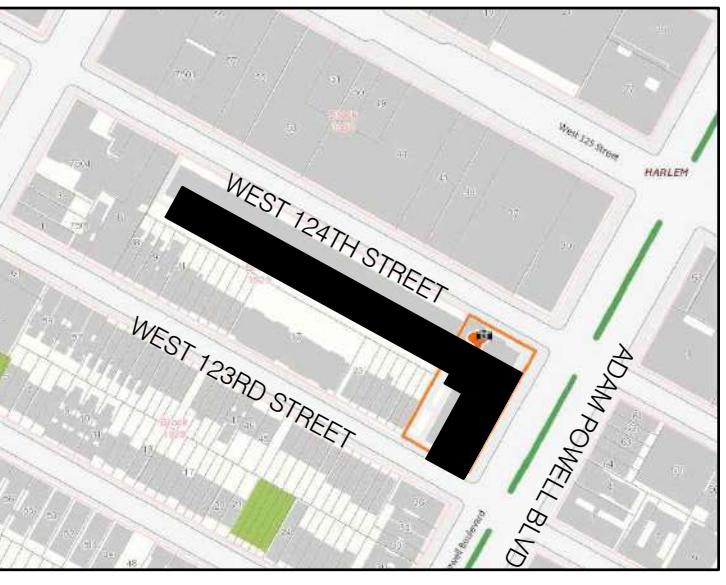
NEW YORK CITY ENERGY CONSERVATION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW
YORK CITY ENERGY CONSERVATION CODE.

116
P 21

The logo for MGE Engineering D.P.C. features a stylized graphic of vertical bars of increasing height from left to right, followed by the letters "MGE" in a large, bold, sans-serif font. Below the main logo is a horizontal bar containing the company name "MGEEngineering D.P.C." in a smaller, italicized sans-serif font, followed by the tagline "we engineer success" in a smaller, regular sans-serif font.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

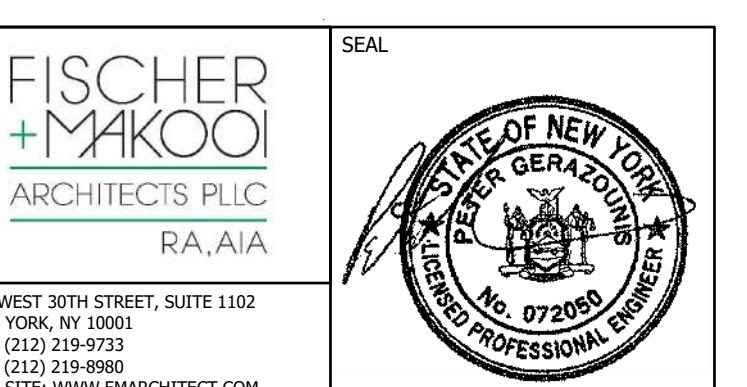
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
15TH FLOOR MECHANICAL PLAN

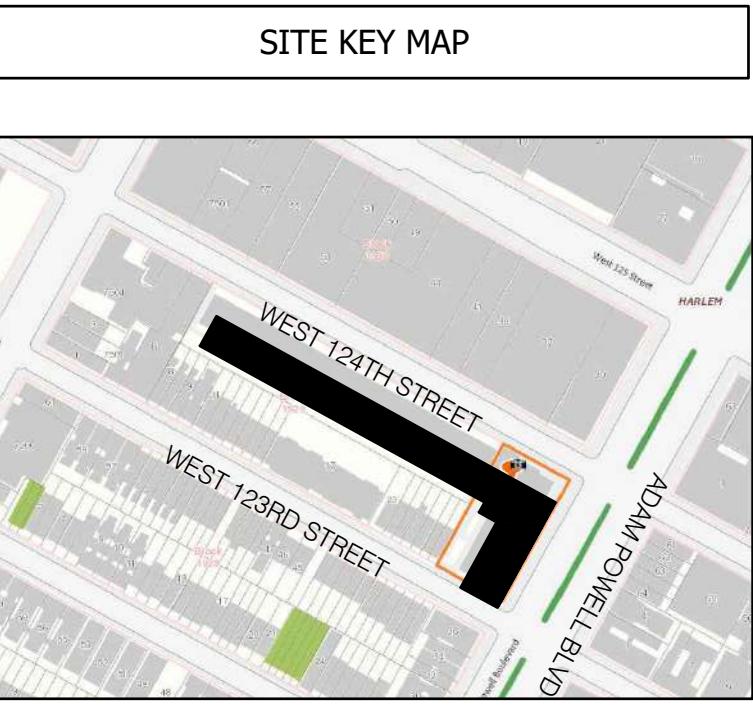
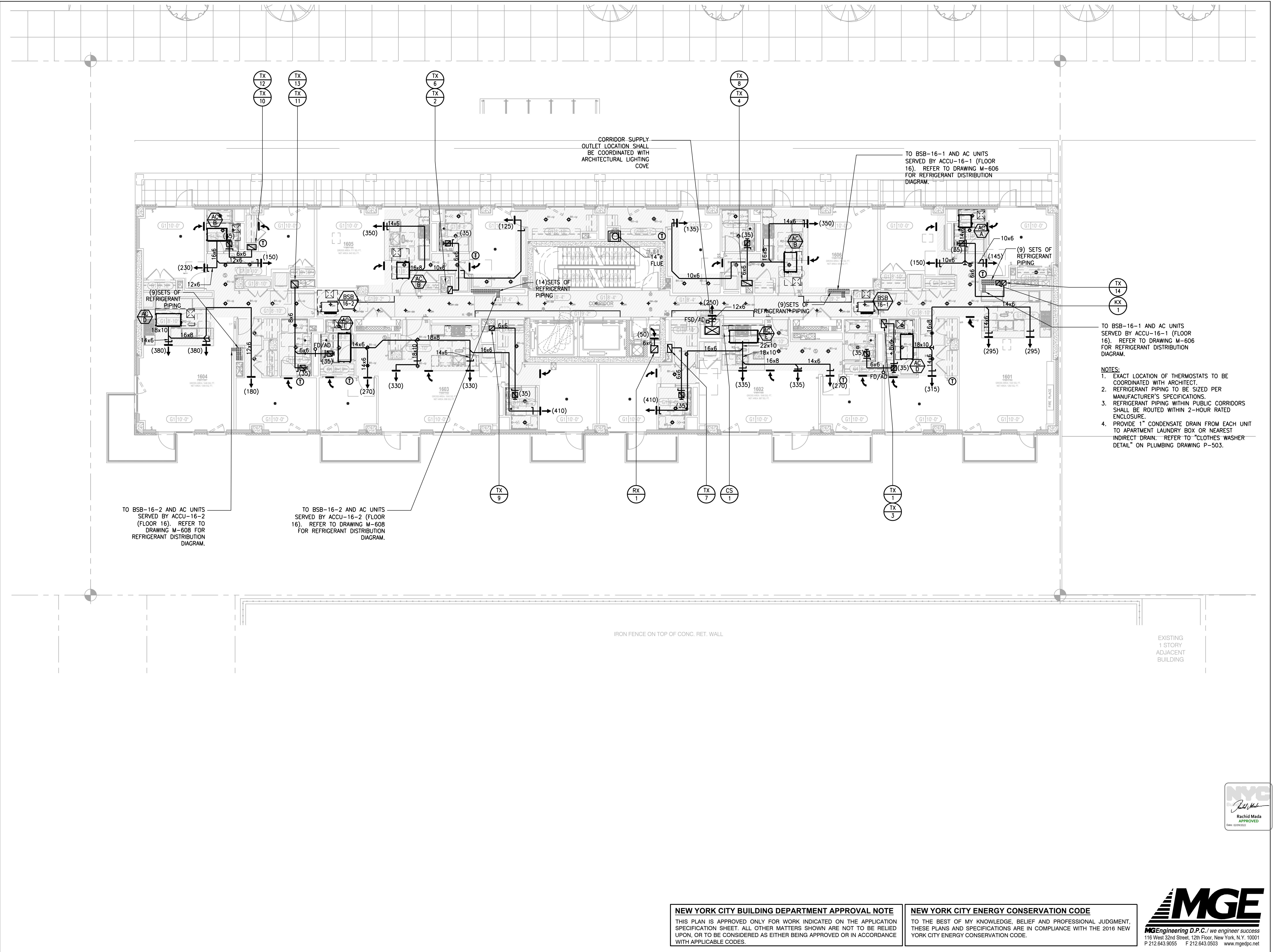
dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 18 OF 43
drawn X X drawing no.
checked X X M-115.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



SITE KEY MAP

BLOCK: 1929 LOT(s): 57

issue	rev	date	description
		01-27-22	REISSUED FOR FILING
		01-27-21	REISSUED FOR FILING
		01-17-20	ISSUED FOR MEP PROGRESS
		10-23-19	ISSUED FOR MEP PROGRESS
		08-29-19	ISSUED FOR PRICING
		08-06-19	100% MEP DD
		03-27-19	ISSUED FOR 25% CD
		06-04-18	ISSUED FOR FILING

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212 643 0055 f 212 643 0503

STRUCTURAL ENGINEER: DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211

CLIENT:

The image contains two parts. On the left, there is a logo for 'FISCHER MAKOOI ARCHITECTS PLLC' with 'RA, AIA' below it. The word 'MAKOOI' is in a larger, stylized font with a green plus sign preceding the 'M'. On the right is a circular professional seal for 'PETER GERAZOUNIS'. The outer ring of the seal contains the text 'STATE OF NEW YORK' at the top and 'LICENSED PROFESSIONAL ENGINEER' at the bottom. The inner circle features a central emblem with a bridge, flanked by stars, and the name 'PETER GERAZOUNIS' above the emblem. Below the emblem, the number 'No. 072050' is prominently displayed.

project title

NEW RESIDENTIAL DEVELOPMENT

**16TH FLOOR
MECHANICAL
PLAN**

dob no	
DOB NOW JOB# M00449689-I1	
scale 1/8'' = 1'-0''	project no. 8049.00 (MARKET)
date 2020-09-17	sheet no. 19 OF 43
drawn X X	drawing no.
checked X X	M-116.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

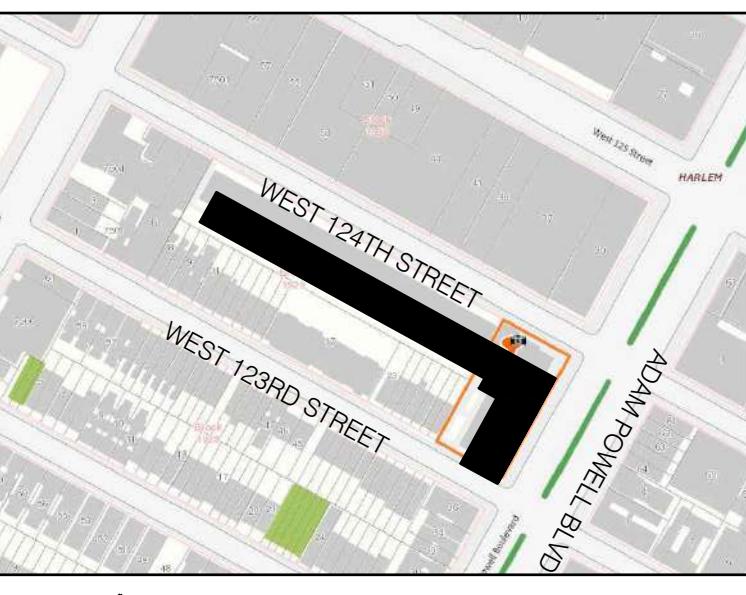
NEW YORK CITY ENERGY CONSERVATION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW
YORK CITY ENERGY CONSERVATION CODE.

116
P 21

The logo for MGE Engineering D.P.C. features a large, bold, black 'MGE' monogram. To the left of the 'M', there is a graphic element consisting of a triangle with horizontal hatching and three thick horizontal bars extending from its base.

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

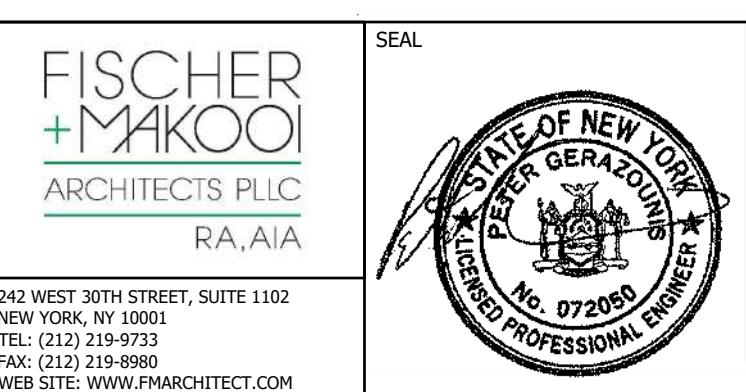
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
17TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

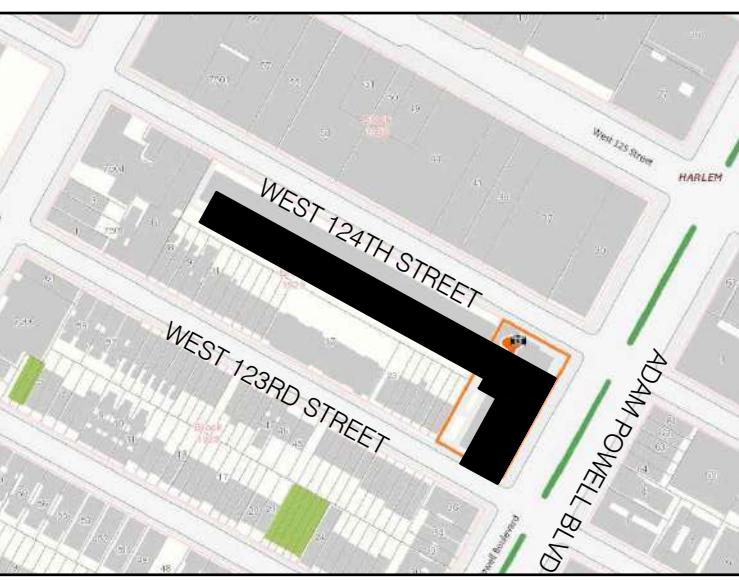
scale 1/8" = 1'-0"	project no 8049.00 (MARKET)
date 2020-09-17	sheet no. 20 OF 43
drawn X X	drawing no.
checked X X	M-117.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

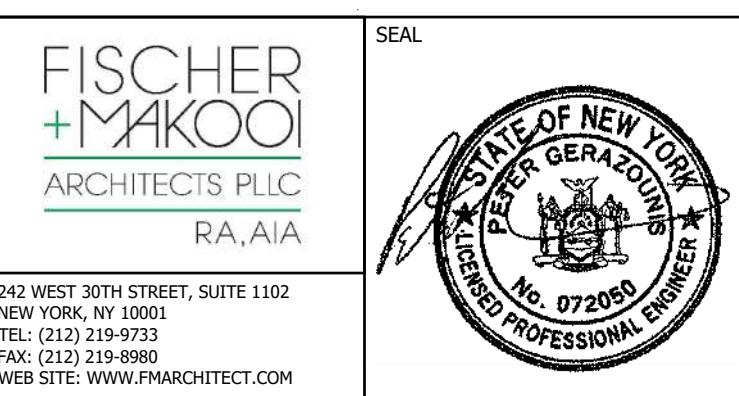
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



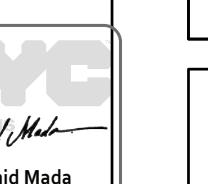
project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
18TH FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 21 OF 43
drawn X X drawing no.
checked X X M-118.00

NYC

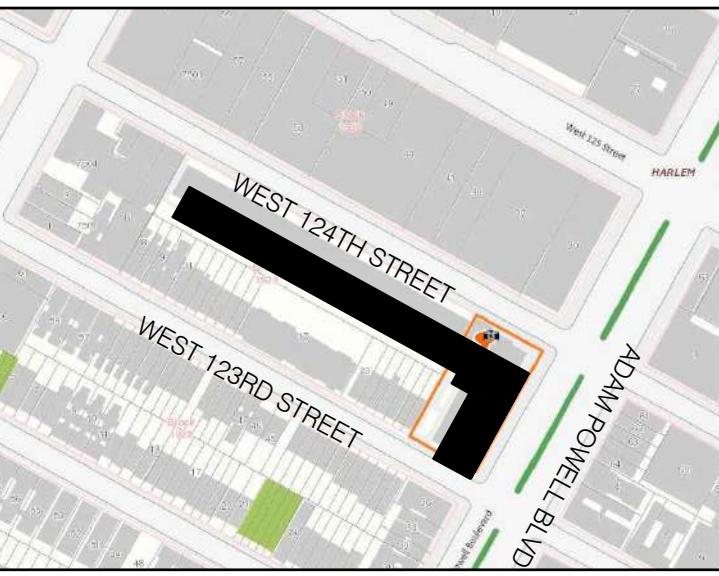


NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.



SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

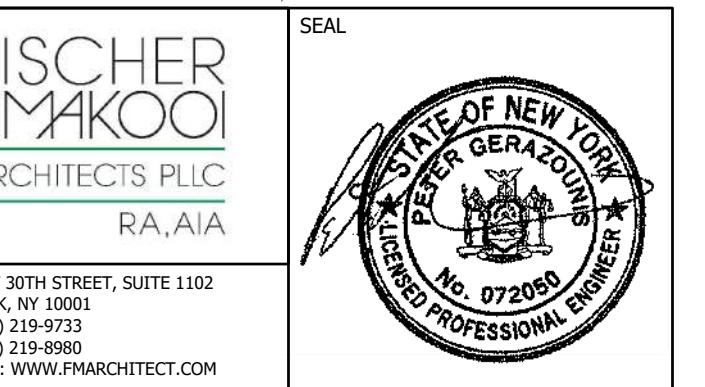
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

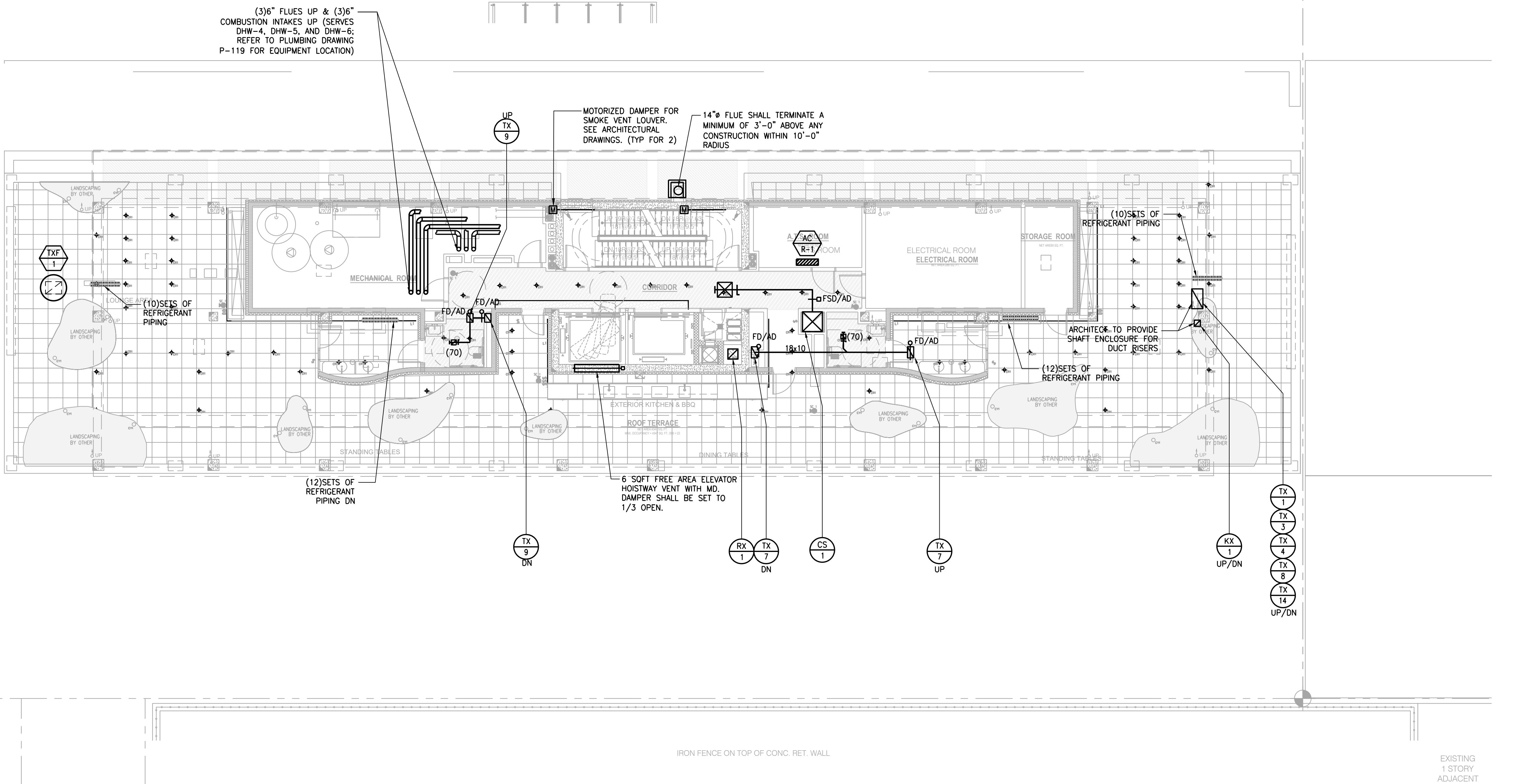


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
ROOF FLOOR
MECHANICAL
PLAN

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 22 OF 43
drawn X X drawing no.
checked X X M-119.00

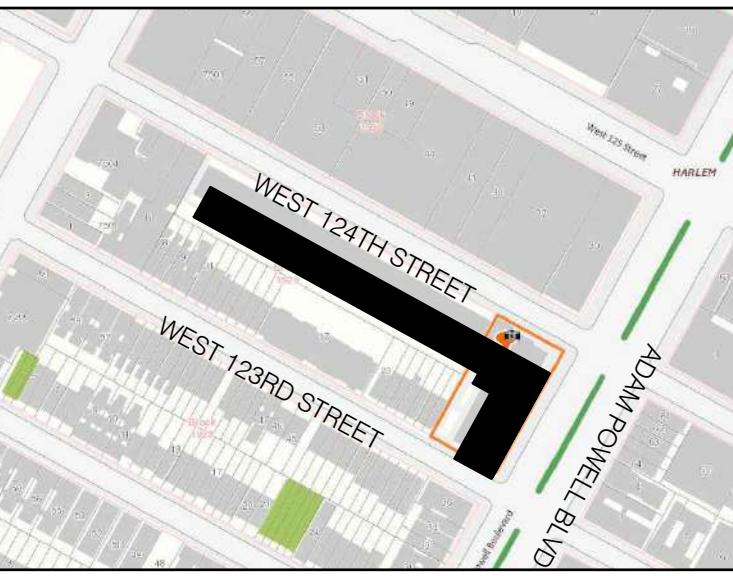


NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MG Engineering D.P.C. we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net

SITE KEY MAP



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

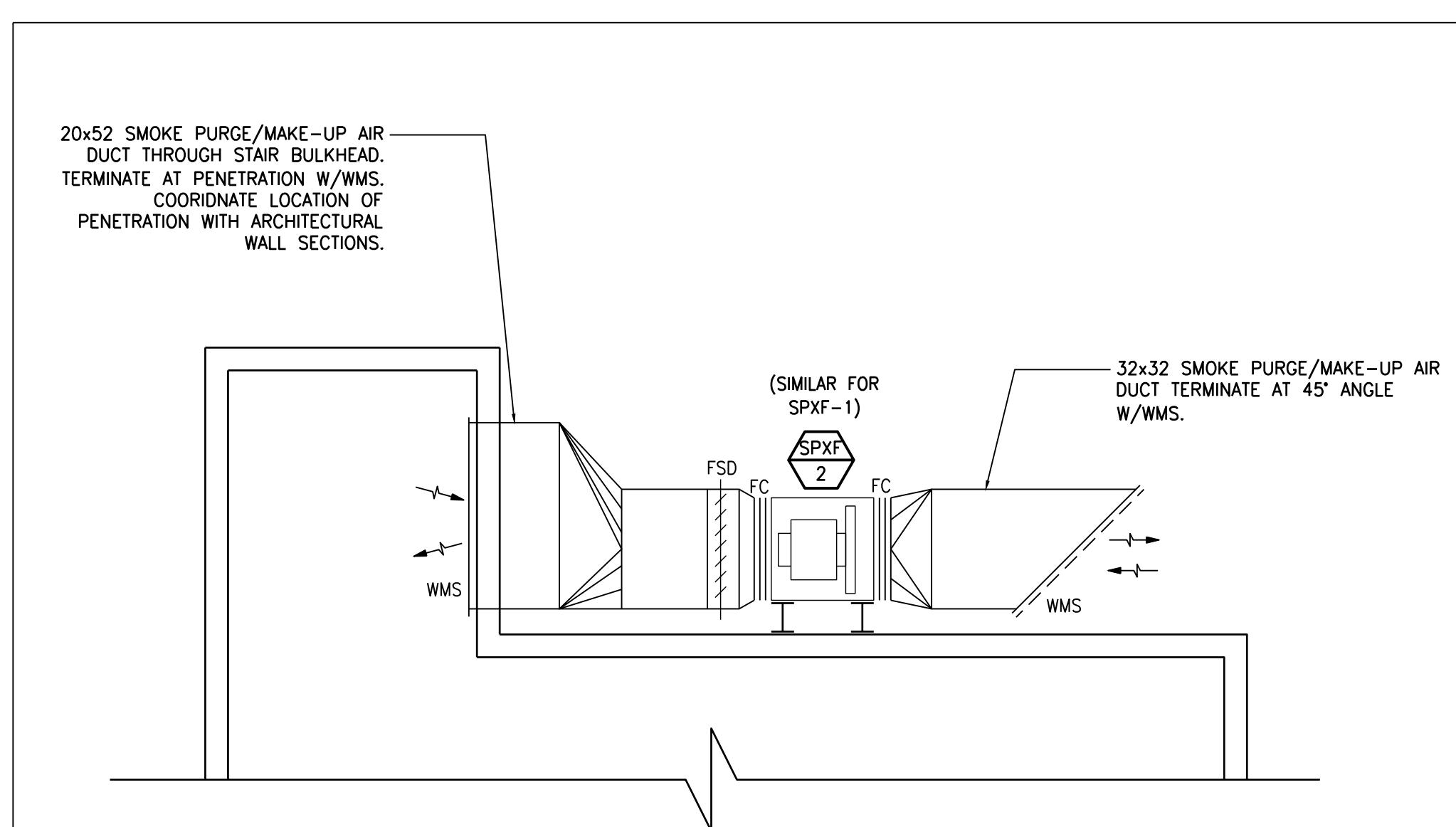
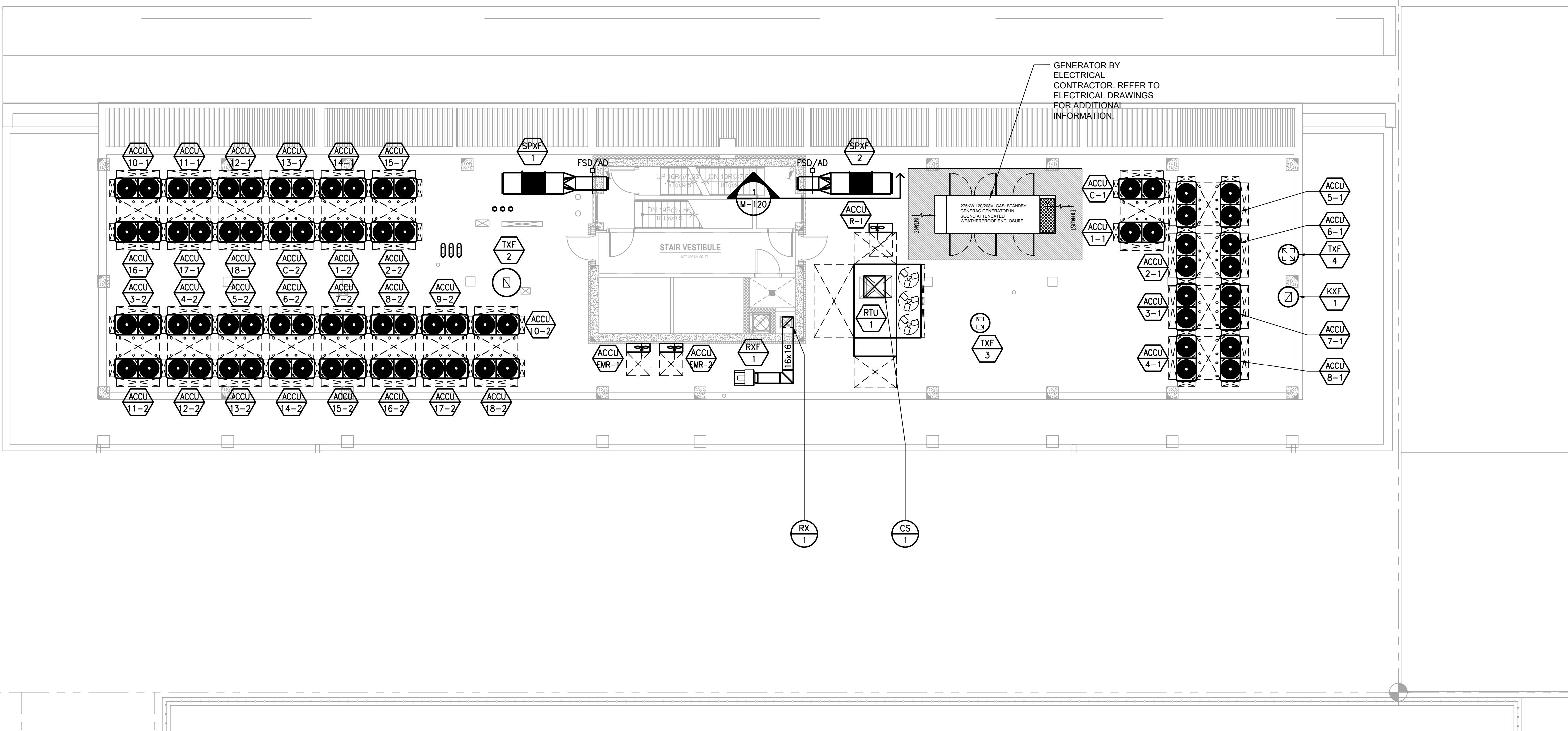
FISCHER + MAKOOI
ARCHITECTS PLLC
RA, AIA
SEAL
STATE OF NEW YORK
REGISTERED PROFESSIONAL ENGINEER
072050
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8973
FAX: (212) 219-8980
WEB SITE: WWW.MARCHITECT.COM

project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
**EMR FLOOR
MECHANICAL
PLAN**

dob no
DOB NOW JOB# M00449689-I1

scale 1/8" = 1'-0" project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 23 OF 43
drawn X X drawing no.
checked X X M-120.00

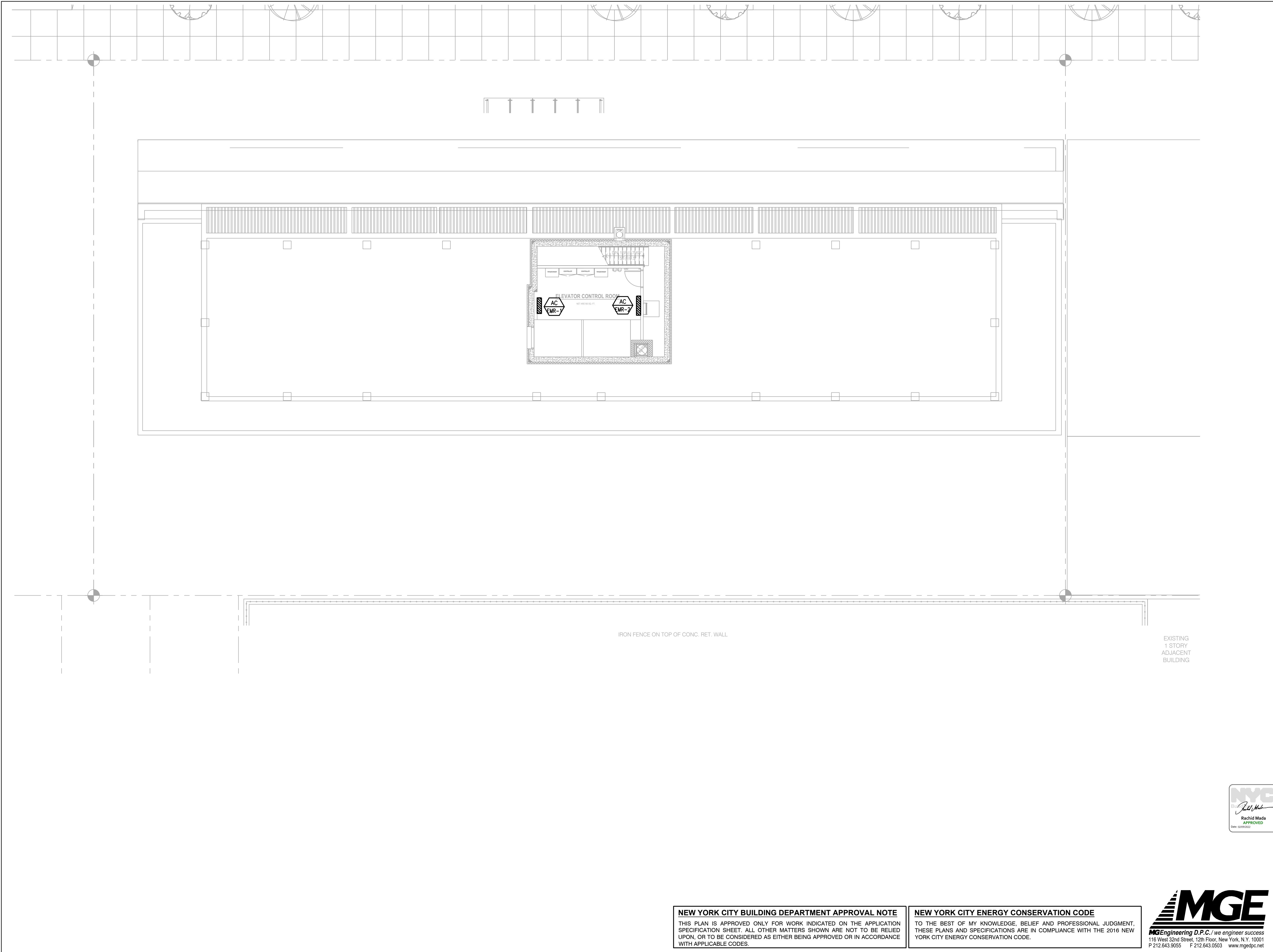


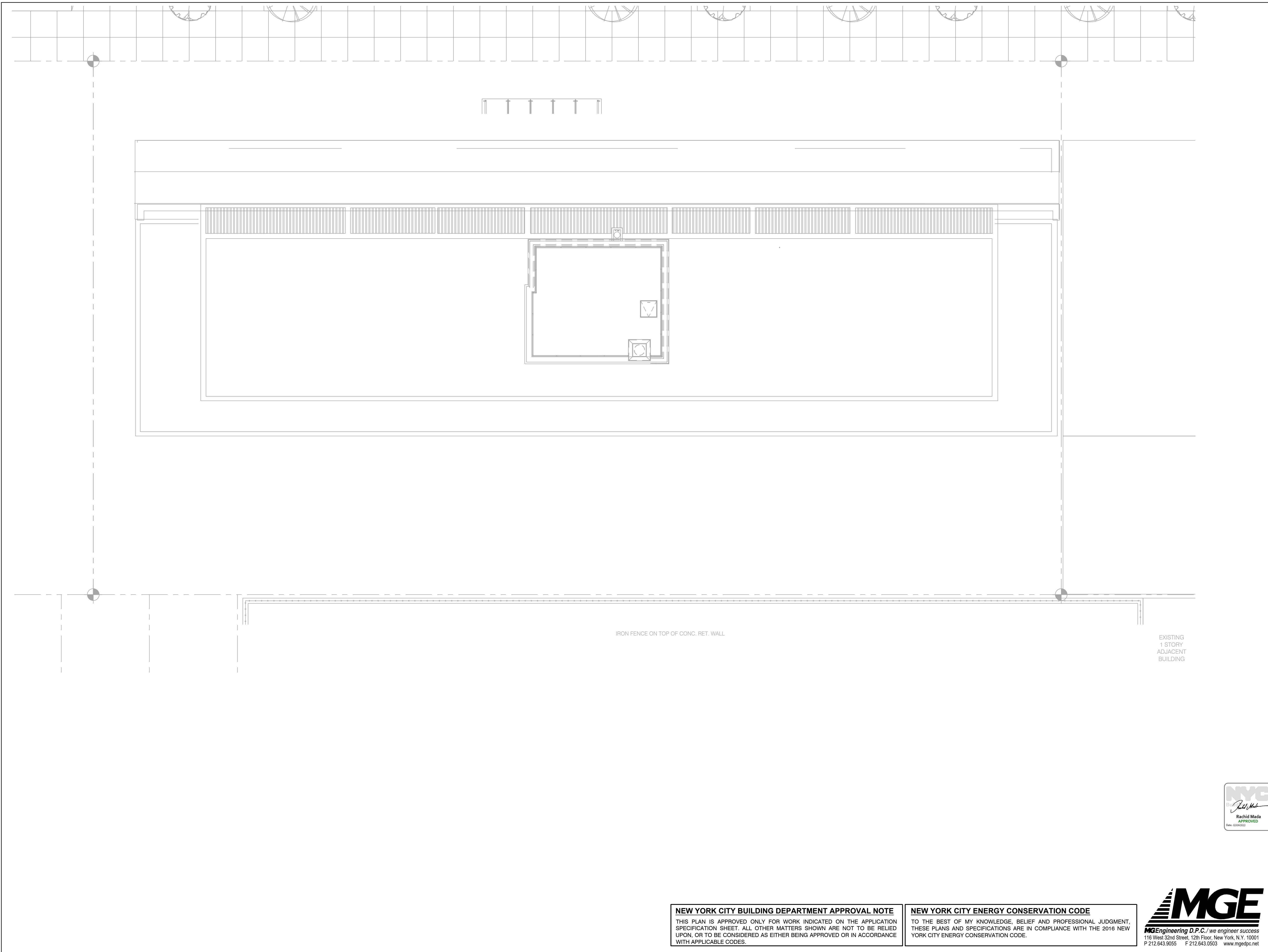
① SMOKE PURGE FAN SECTION (THROUGH STAIR)
SCALE: 1/8" = 1'-0"

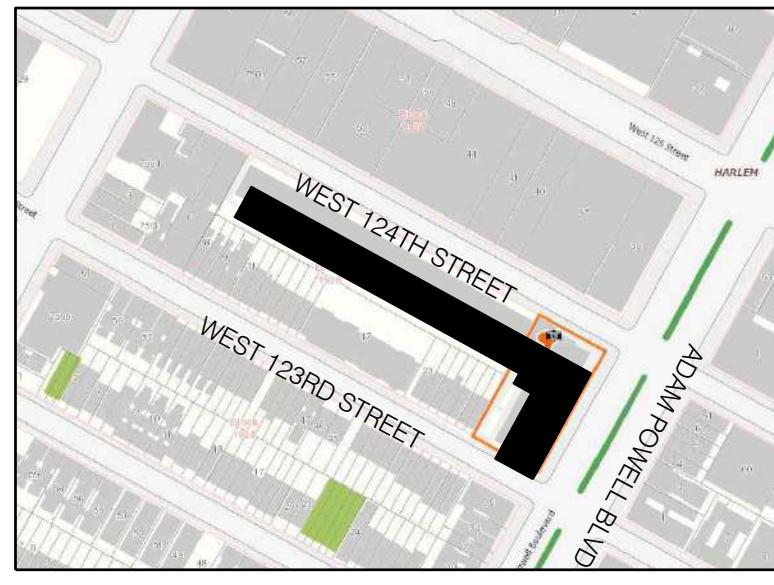
NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C. we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



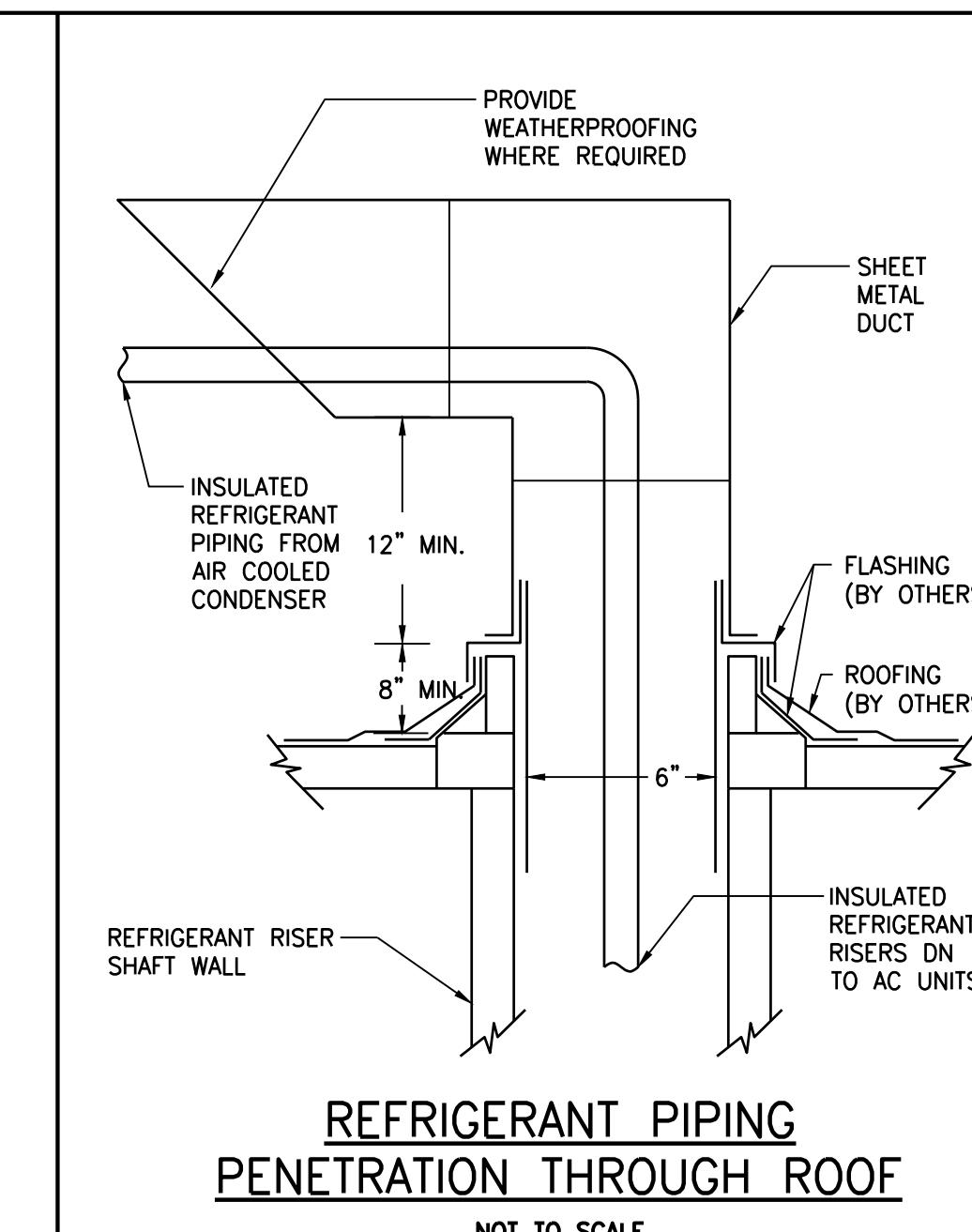
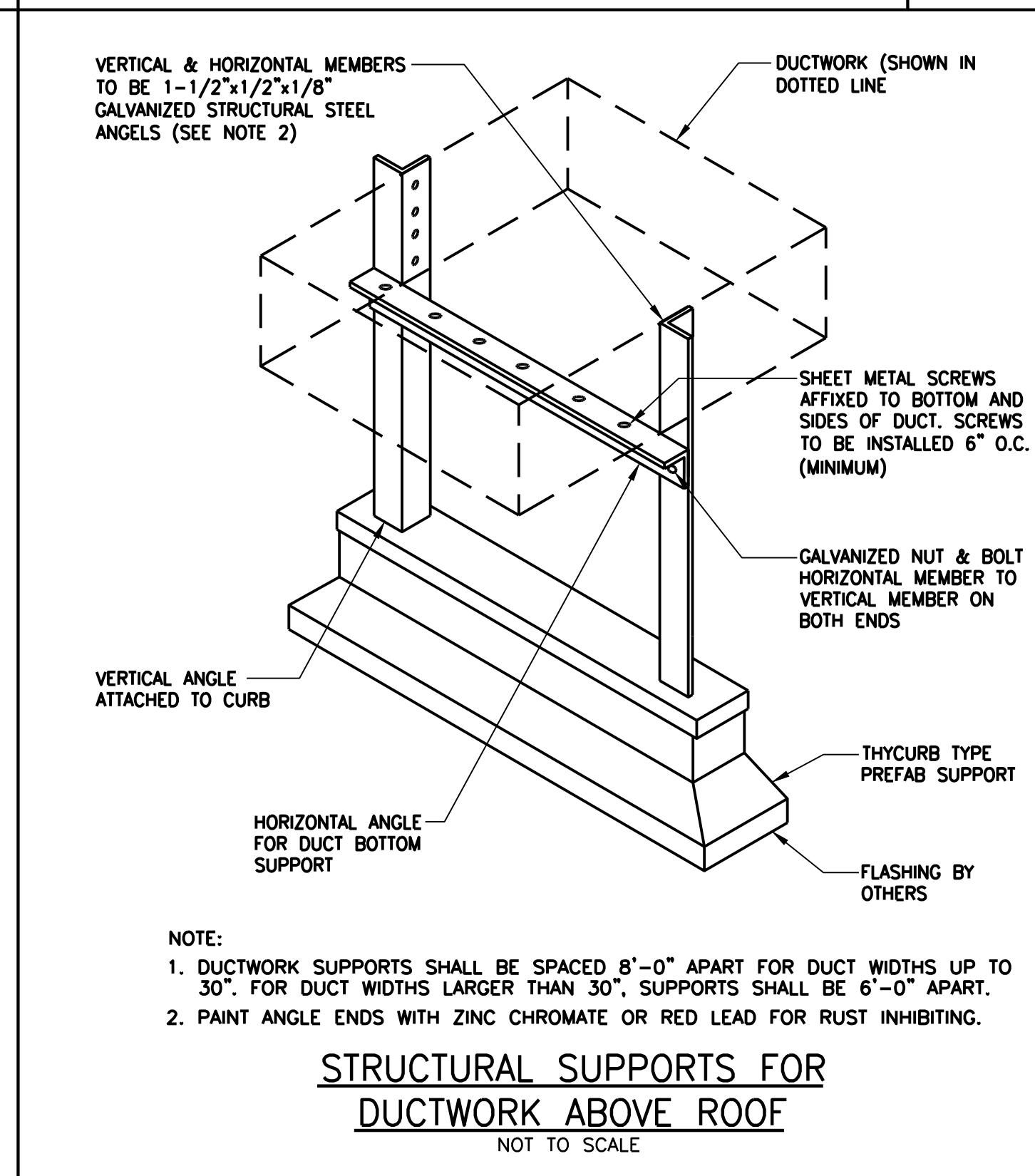
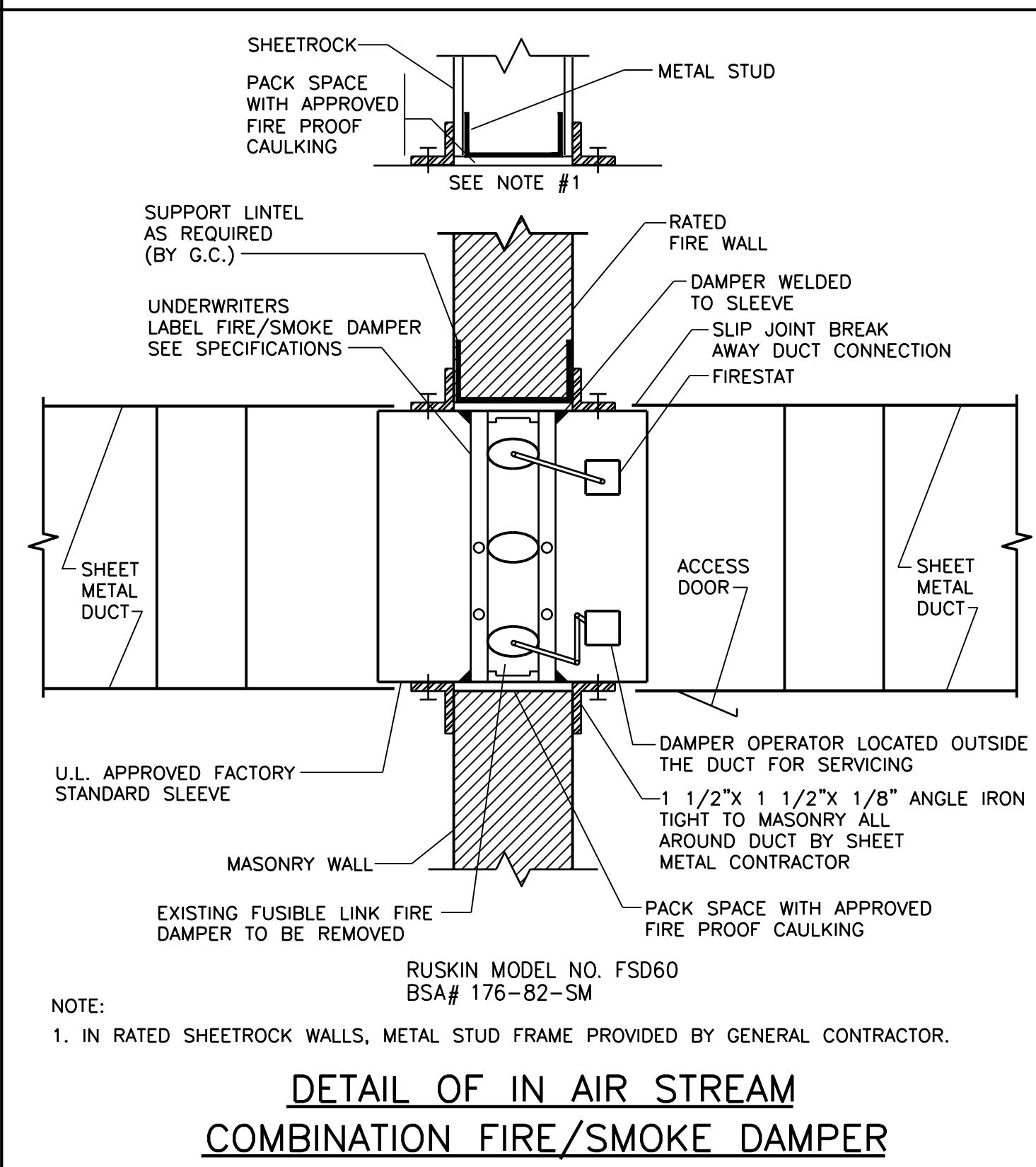
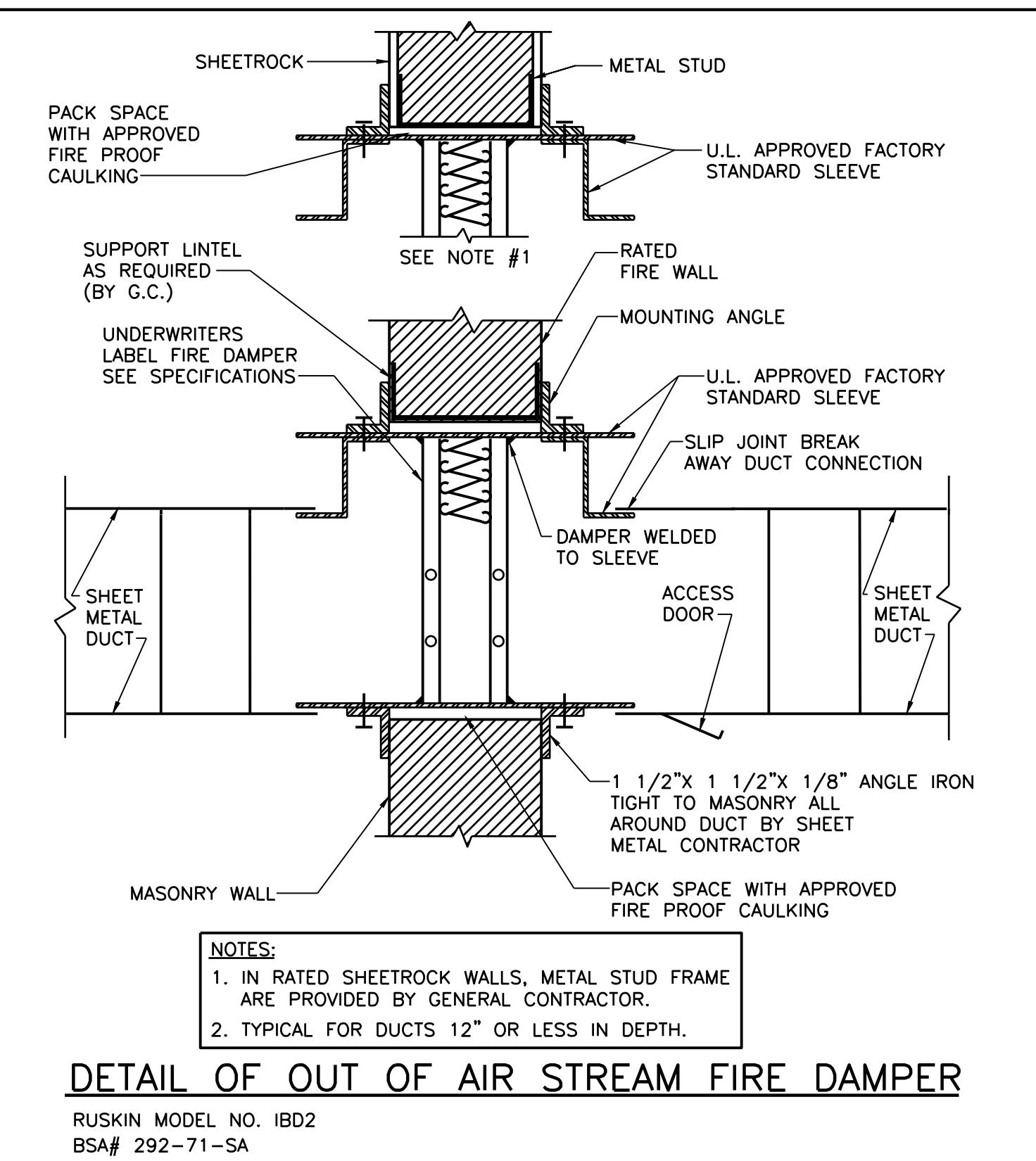
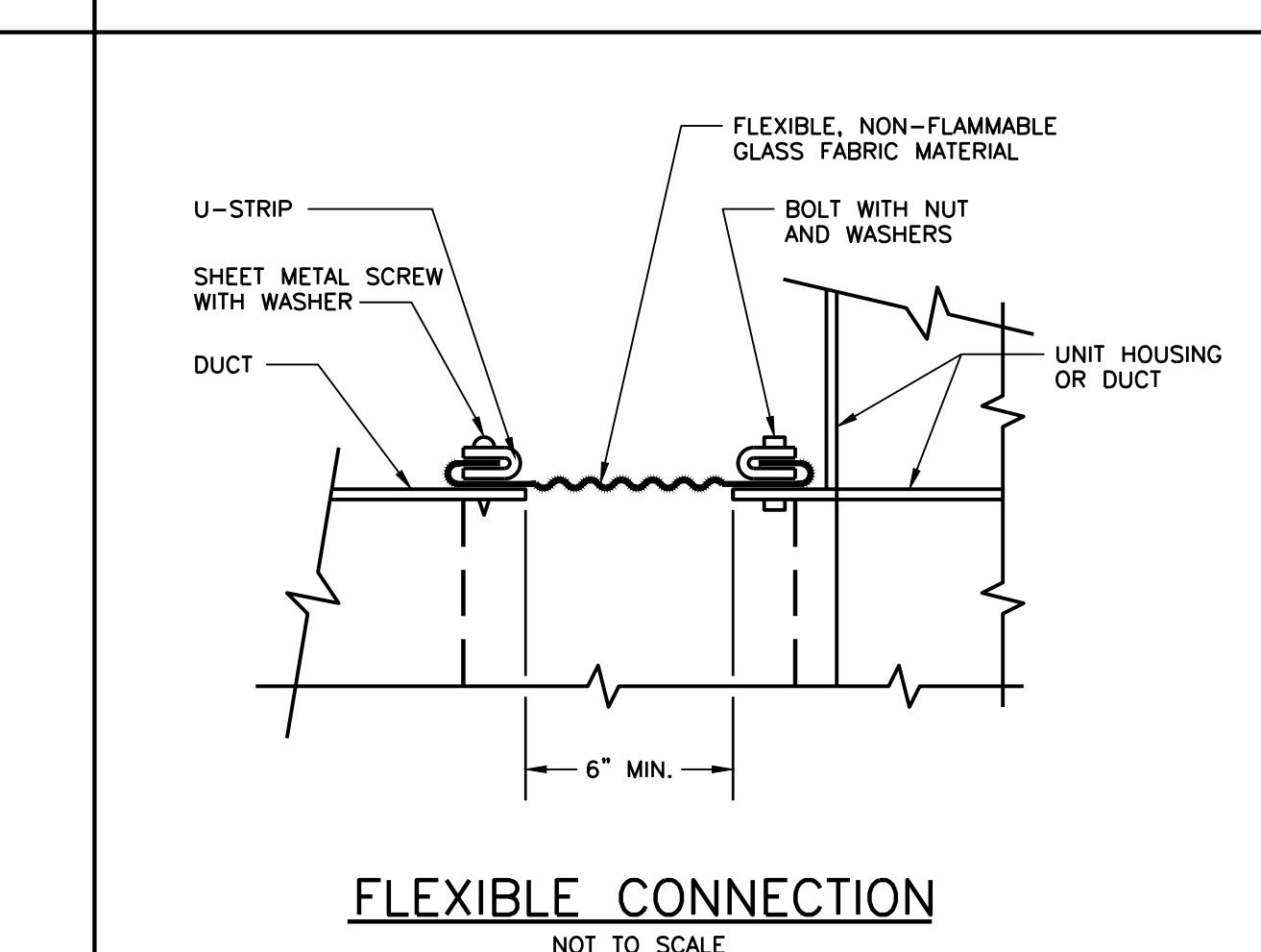
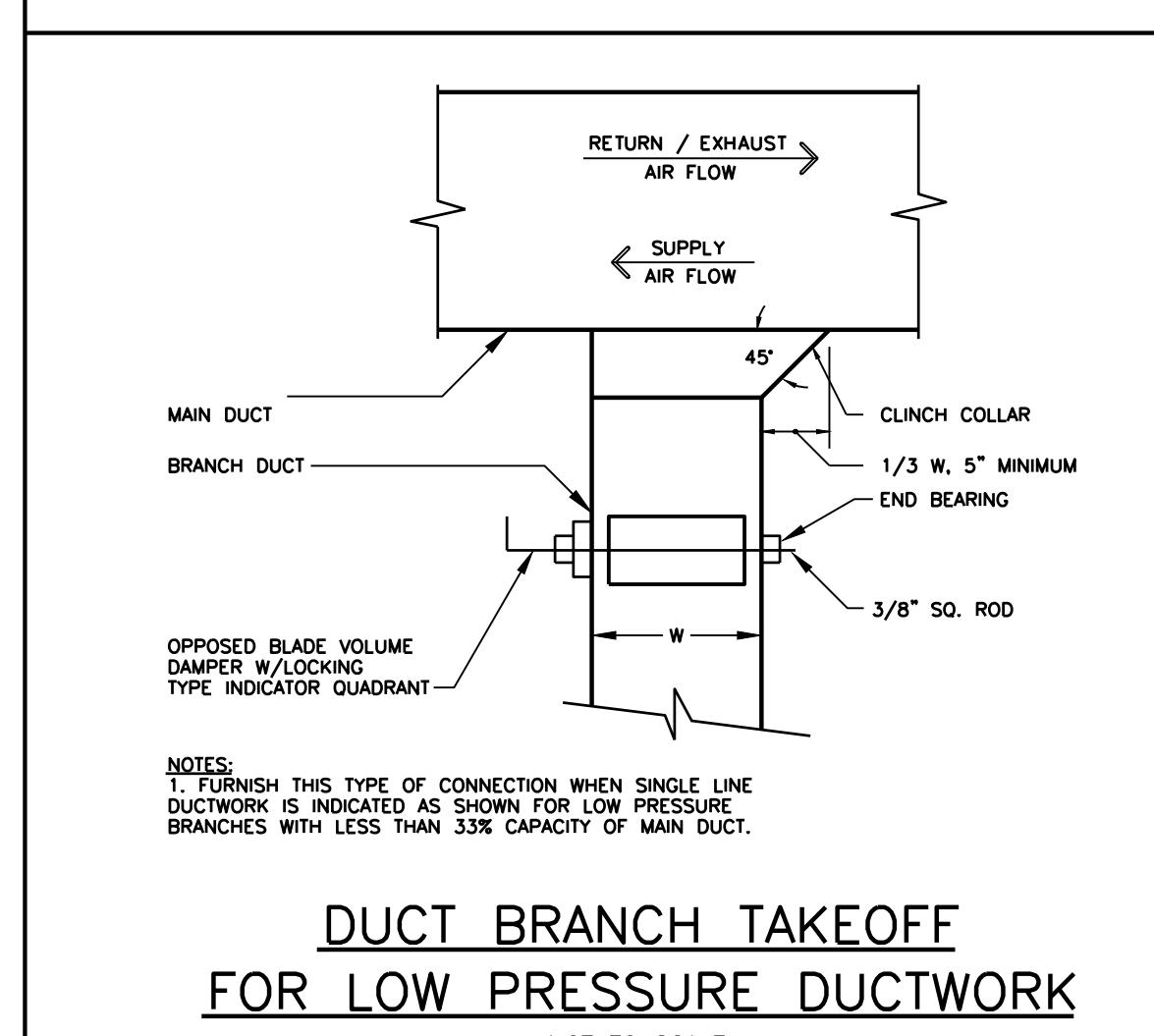
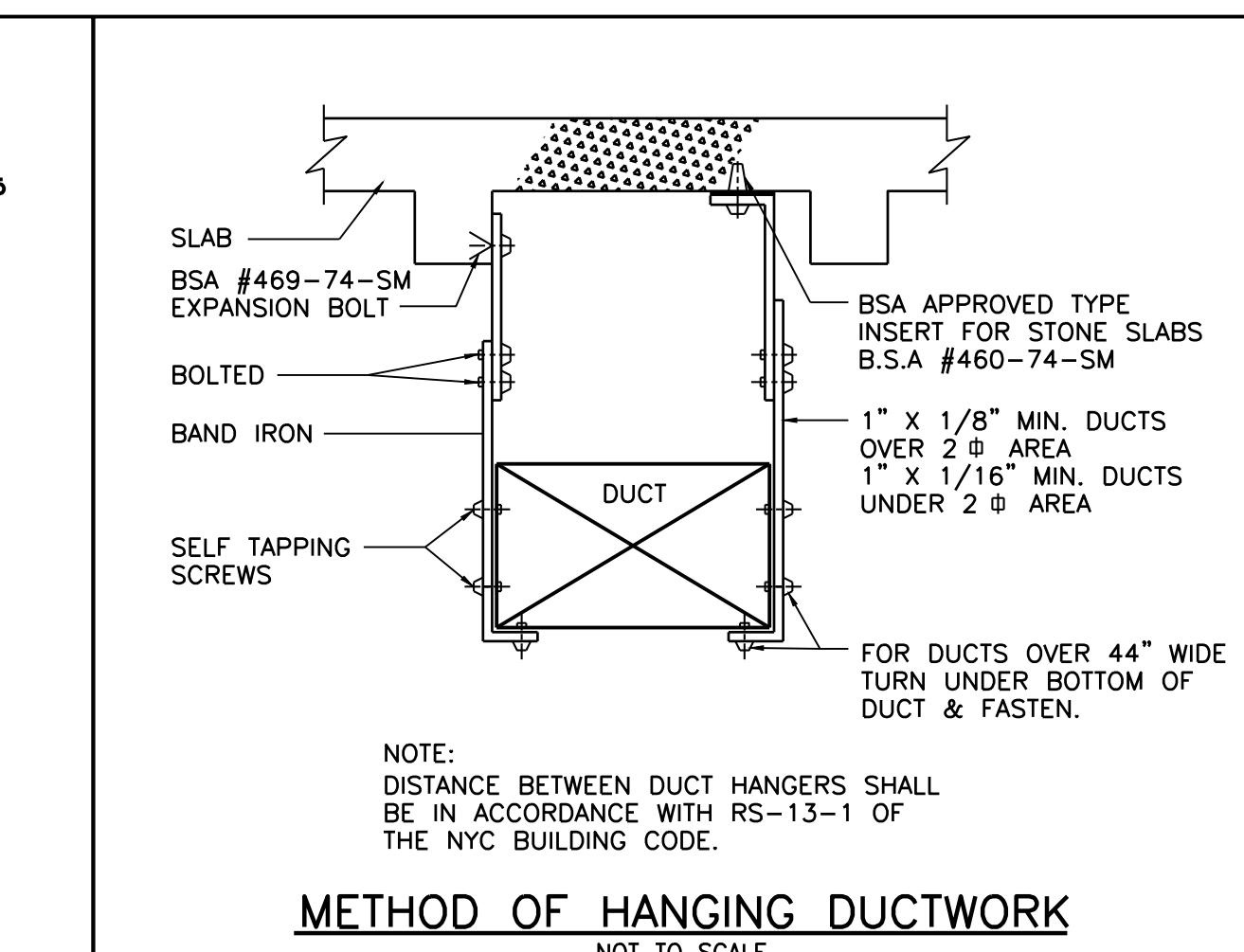
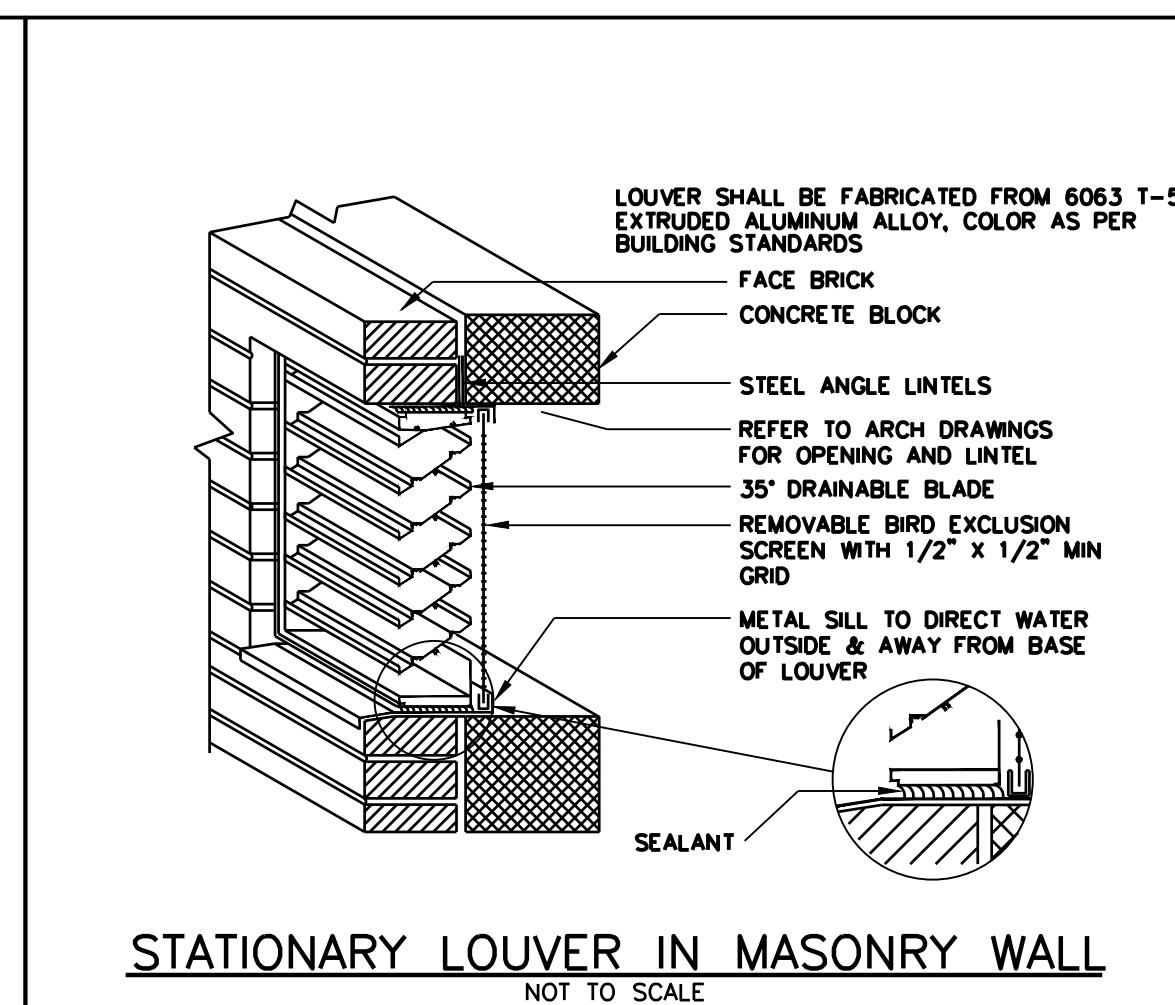
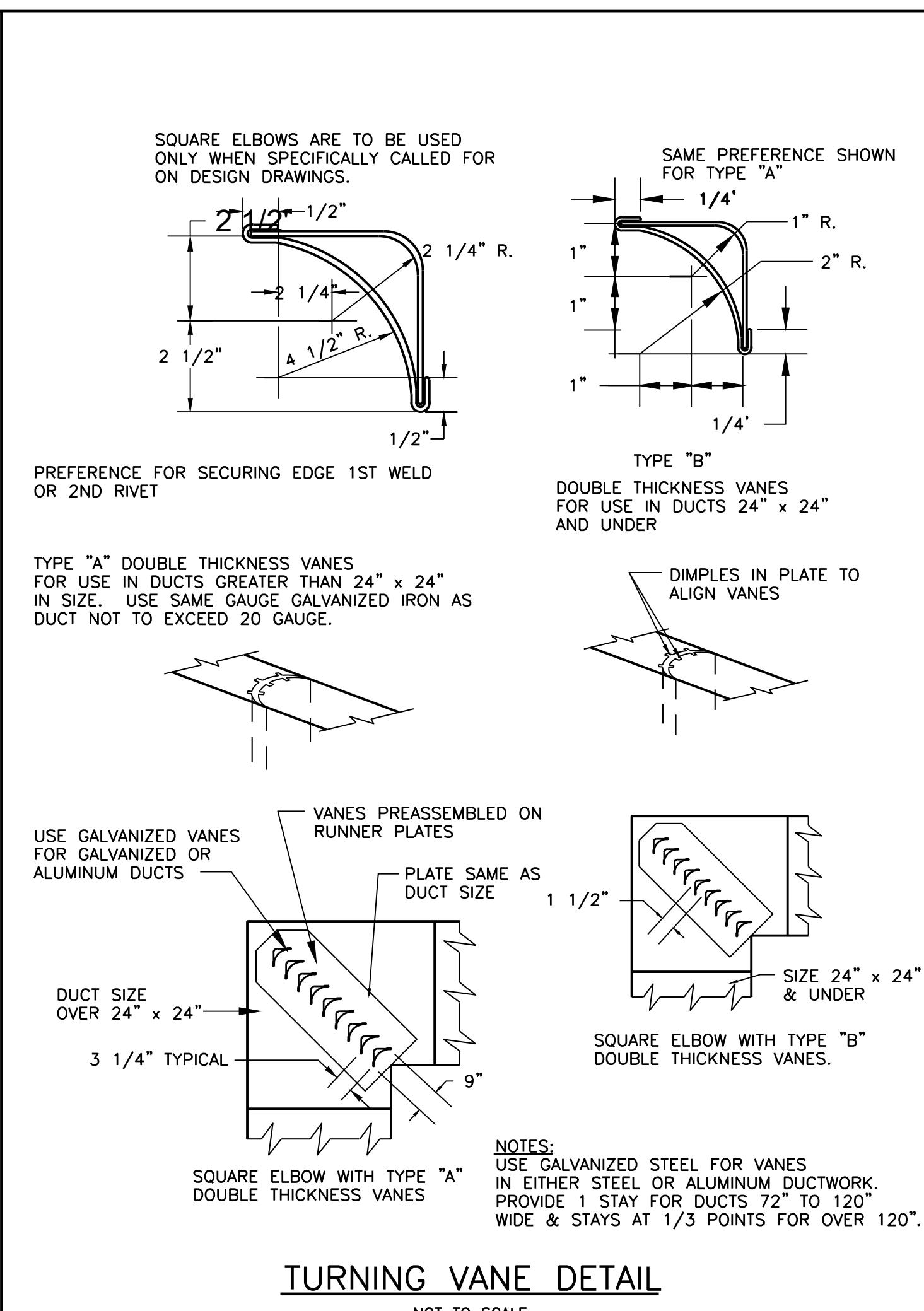
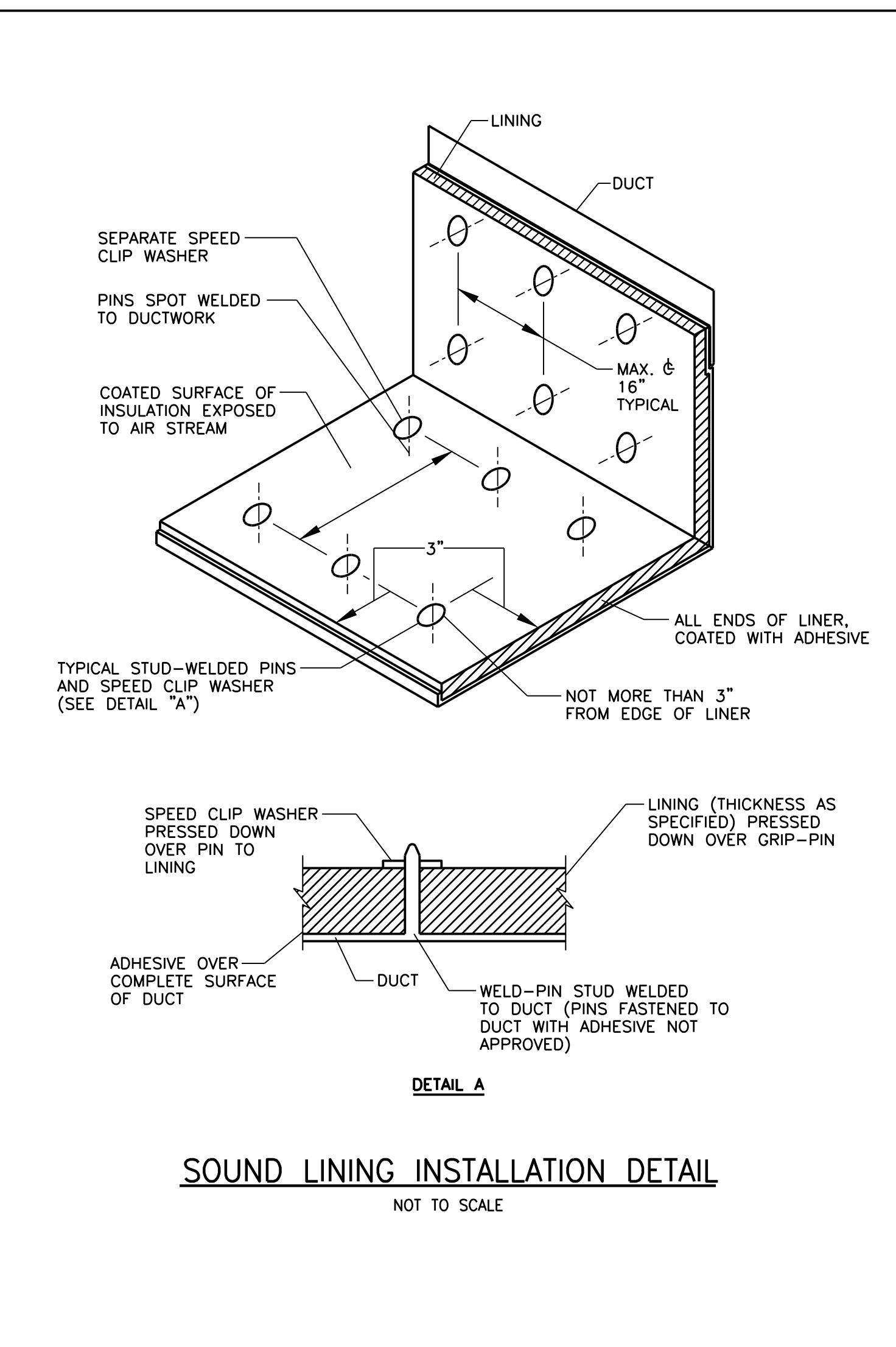




BLOCK: 1929 LOT(s): 57

		01-27-22 REISSUED FOR FILING
		01-27-21 REISSUED FOR FILING
		01-17-20 ISSUED FOR MEP PROGRESS
		10-23-19 ISSUED FOR MEP PROGRESS
		08-29-19 ISSUED FOR PRICING
		08-06-19 100% MEP DD
		03-27-19 ISSUED FOR 25% CD
		06-04-18 ISSUED FOR FILING
issue	rev	date
		description

ISSUES/REVISIONS



 Rachid Mada
APPROVED
Date: 02/06/2022

MECHANICAL DETAILS
SHEET 1 OF 4

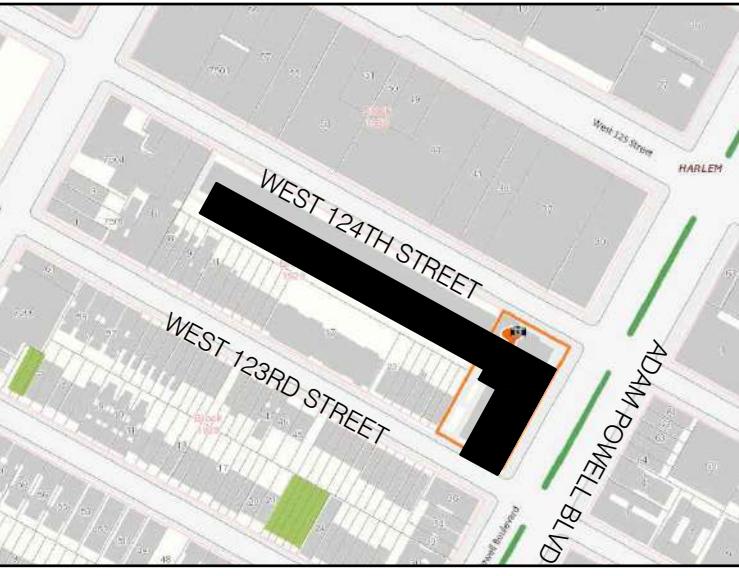
DOB NO
DOB NOW JOB# M00449689-I1

scale	NONE	project no.	8049.00 (MARKET)
date	2020-09-17	sheet no.	26 OF 43
drawn	X X	drawing no.	
checked	X X		M-501.00

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.843.9055 F 212.843.0903 www.mgedpc.net

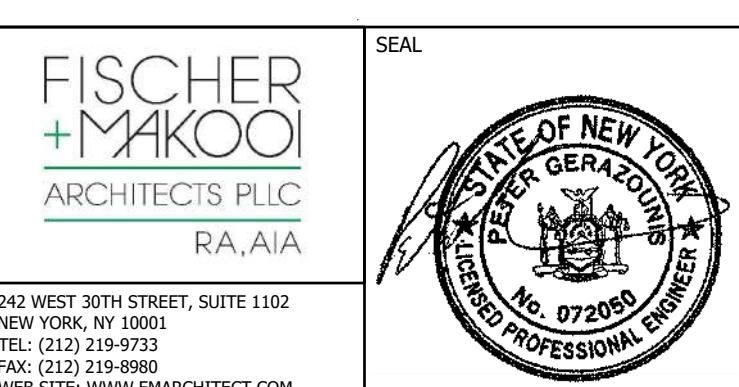


BLOCK: 1929 LOT(s): 57			
01-27-22	REISSUED FOR FILING		
01-27-21	REISSUED FOR FILING		
01-17-20	ISSUED FOR MEP PROGRESS		
10-23-19	ISSUED FOR MEP PROGRESS		
08-29-19	ISSUED FOR PRICING		
08-06-19	100% MEP DD		
03-27-19	ISSUED FOR 25% CD		
06-04-18	ISSUED FOR FILING		
issue	rev	date	description

ISSUES/REVISONS
MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.481.6108

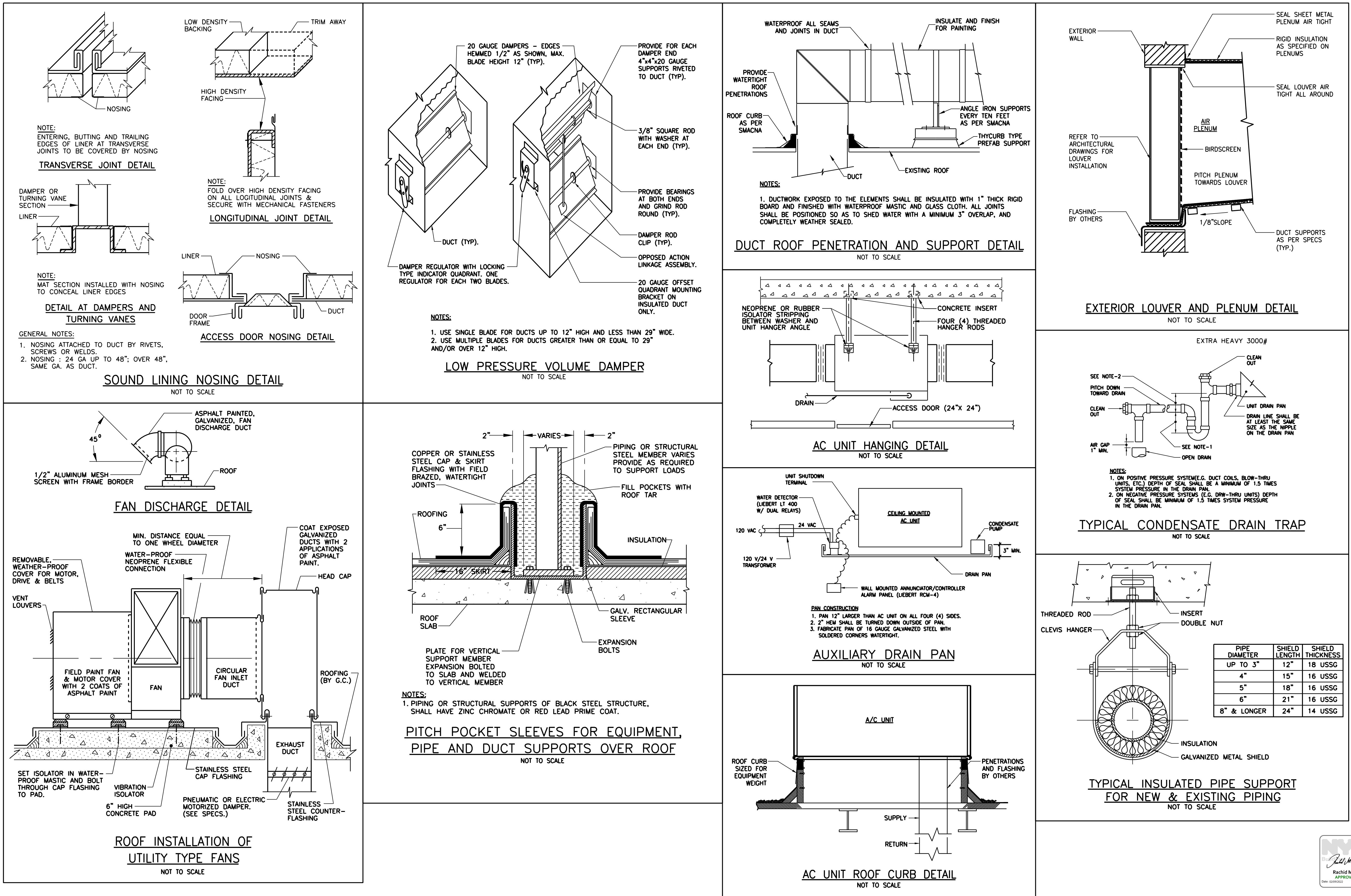
CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL DETAILS
SHEET 2 OF 4

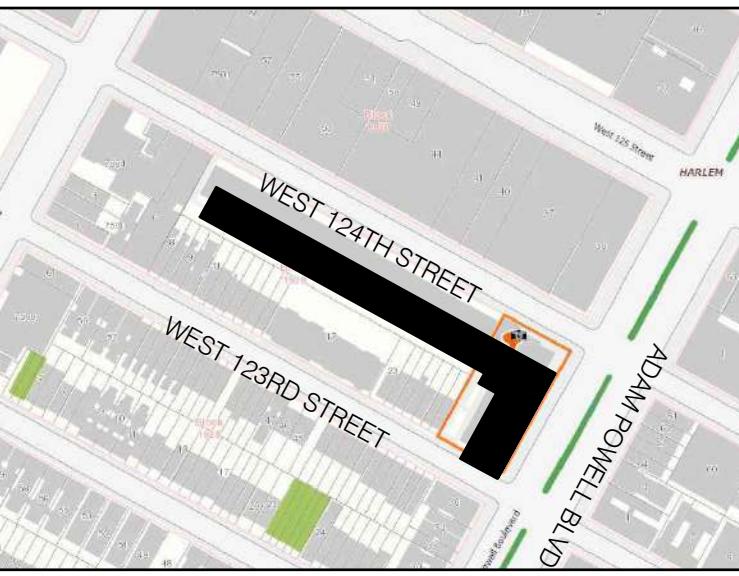
dob no
DOB NOW JOB# M00449689-I1
scale none
project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 27 OF 43
drawn X X drawing no.
checked X X M-502.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C. we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

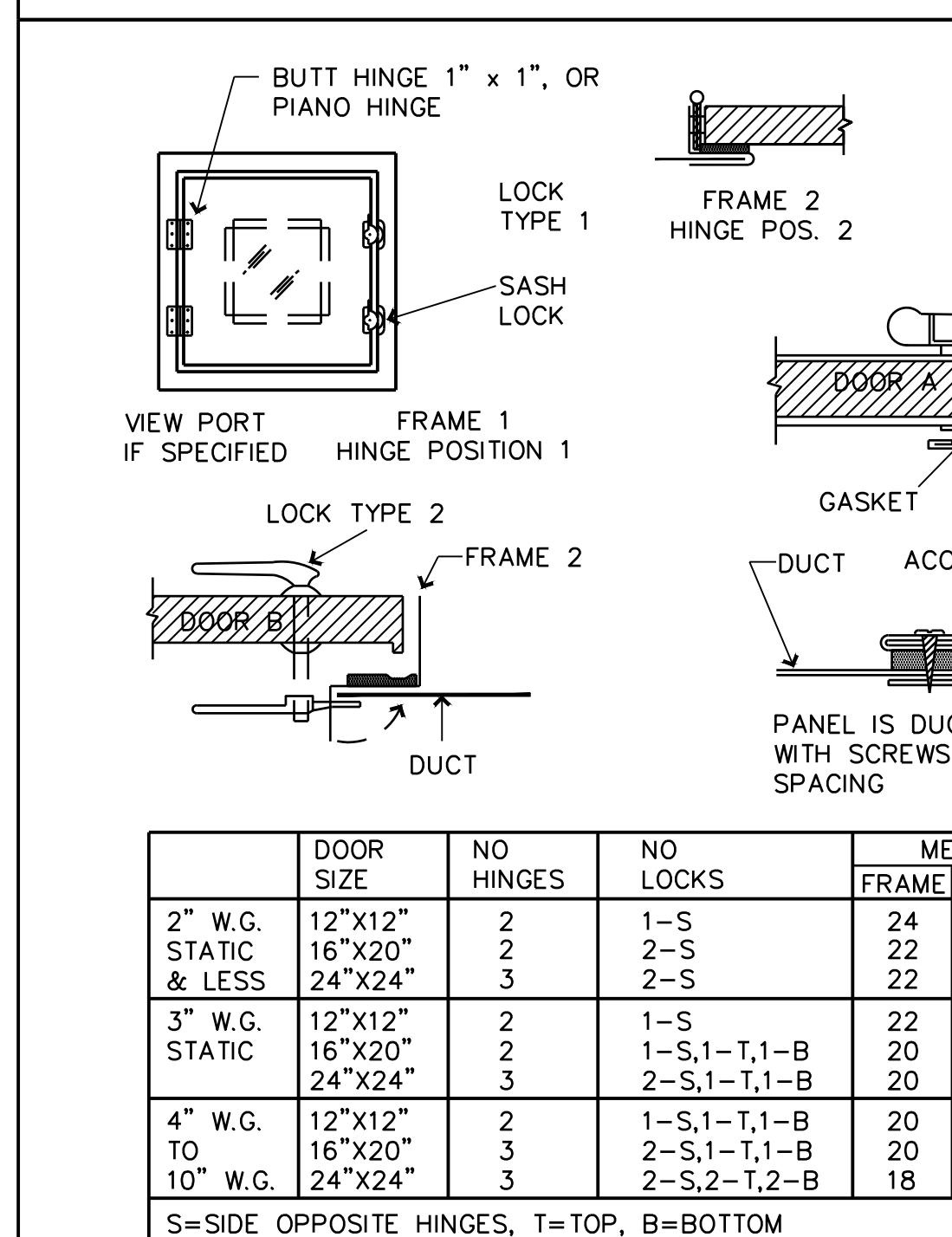
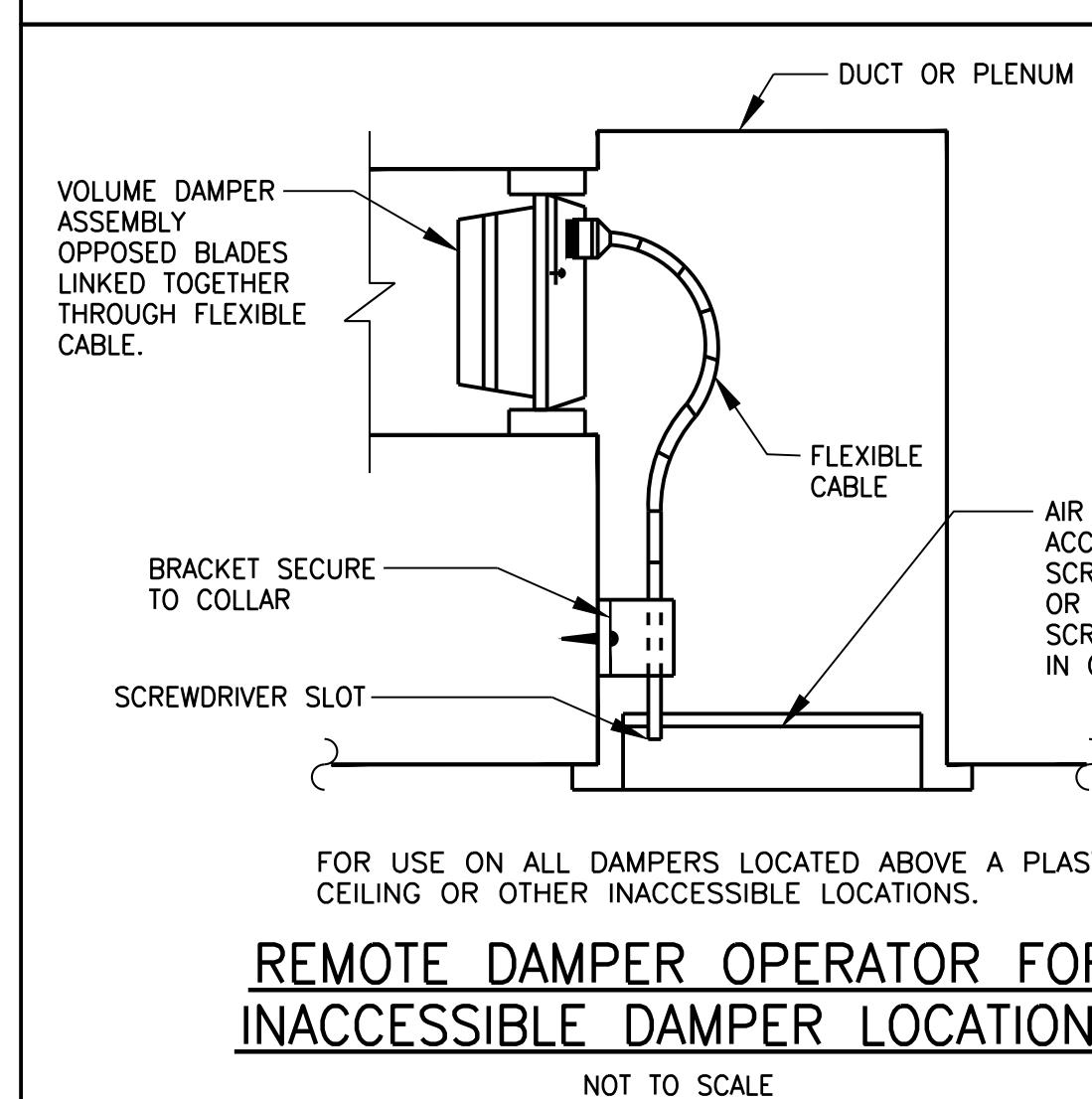
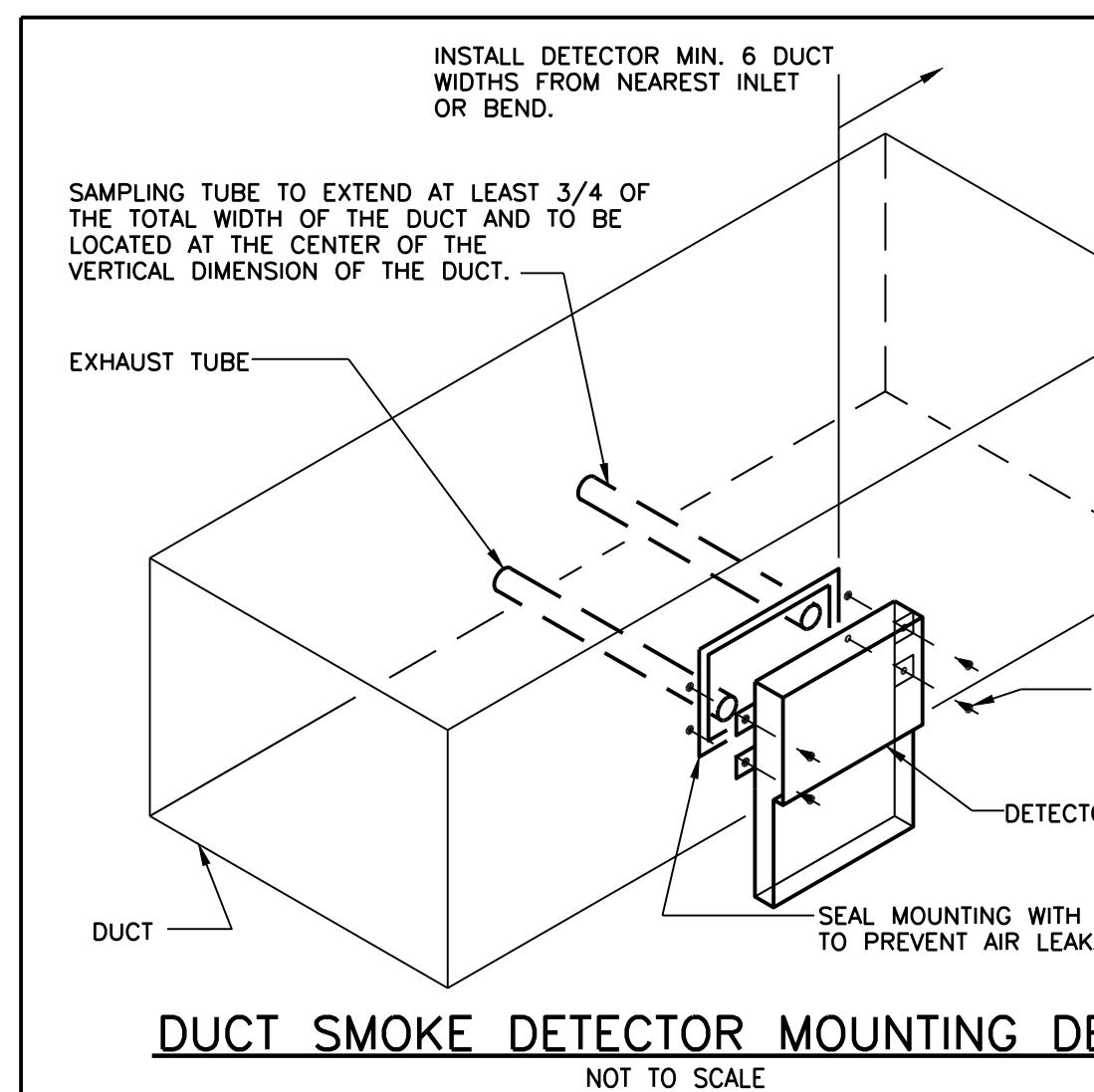
FISCHER + MAKOOLI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 229-7373
FAX: (212) 219-8980
WEB SITE: WWW.PMARCHITECT.COM

project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

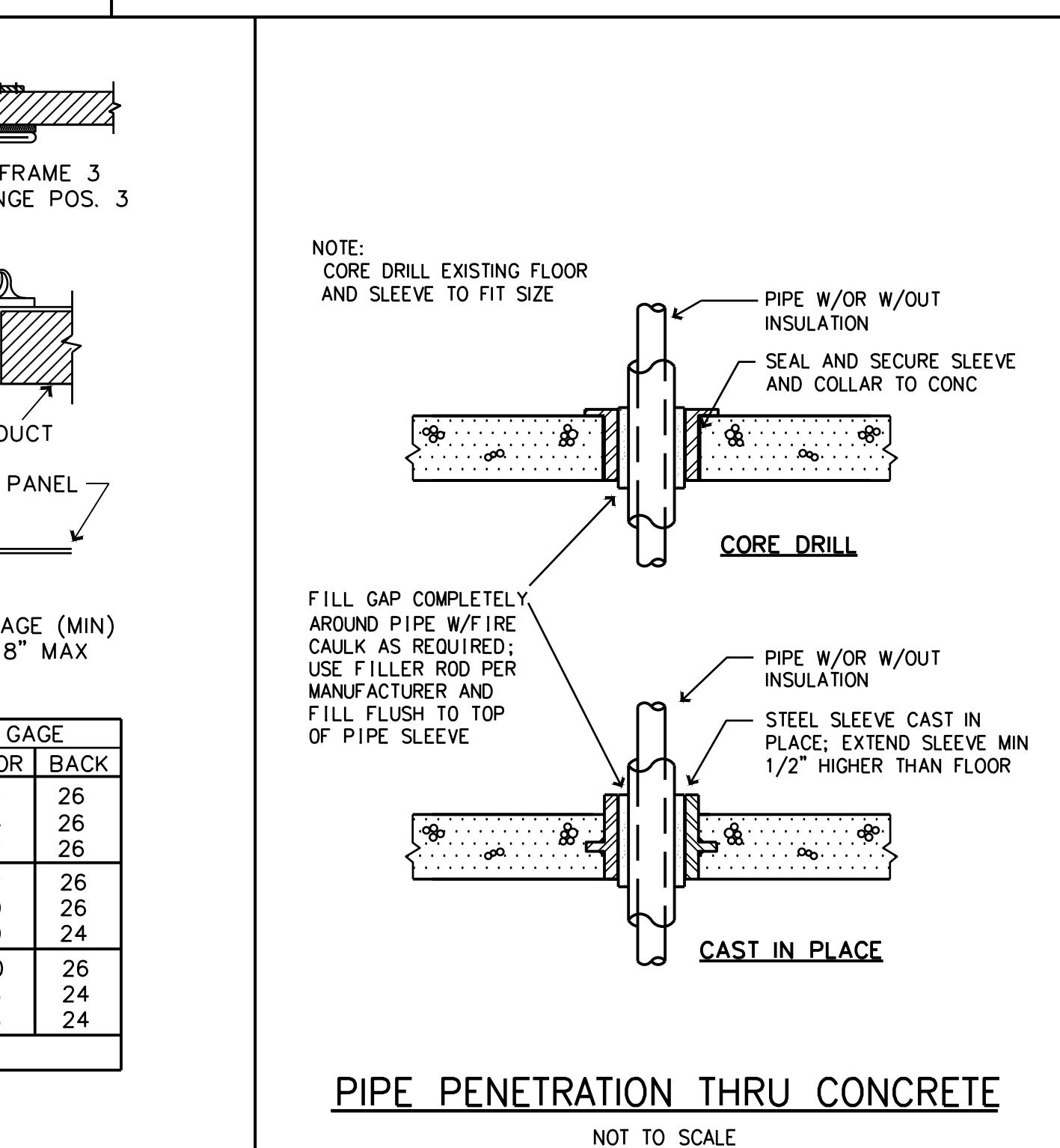
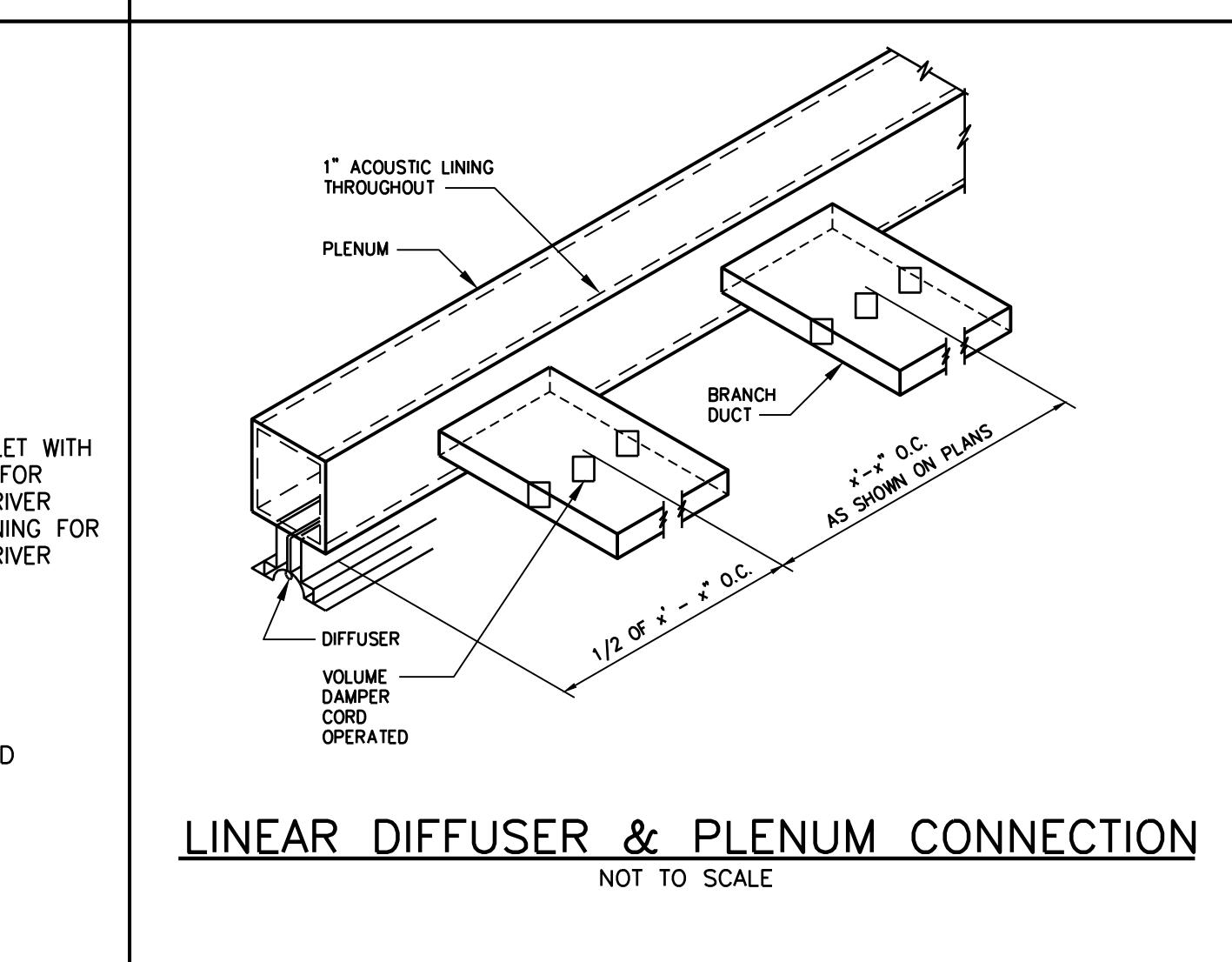
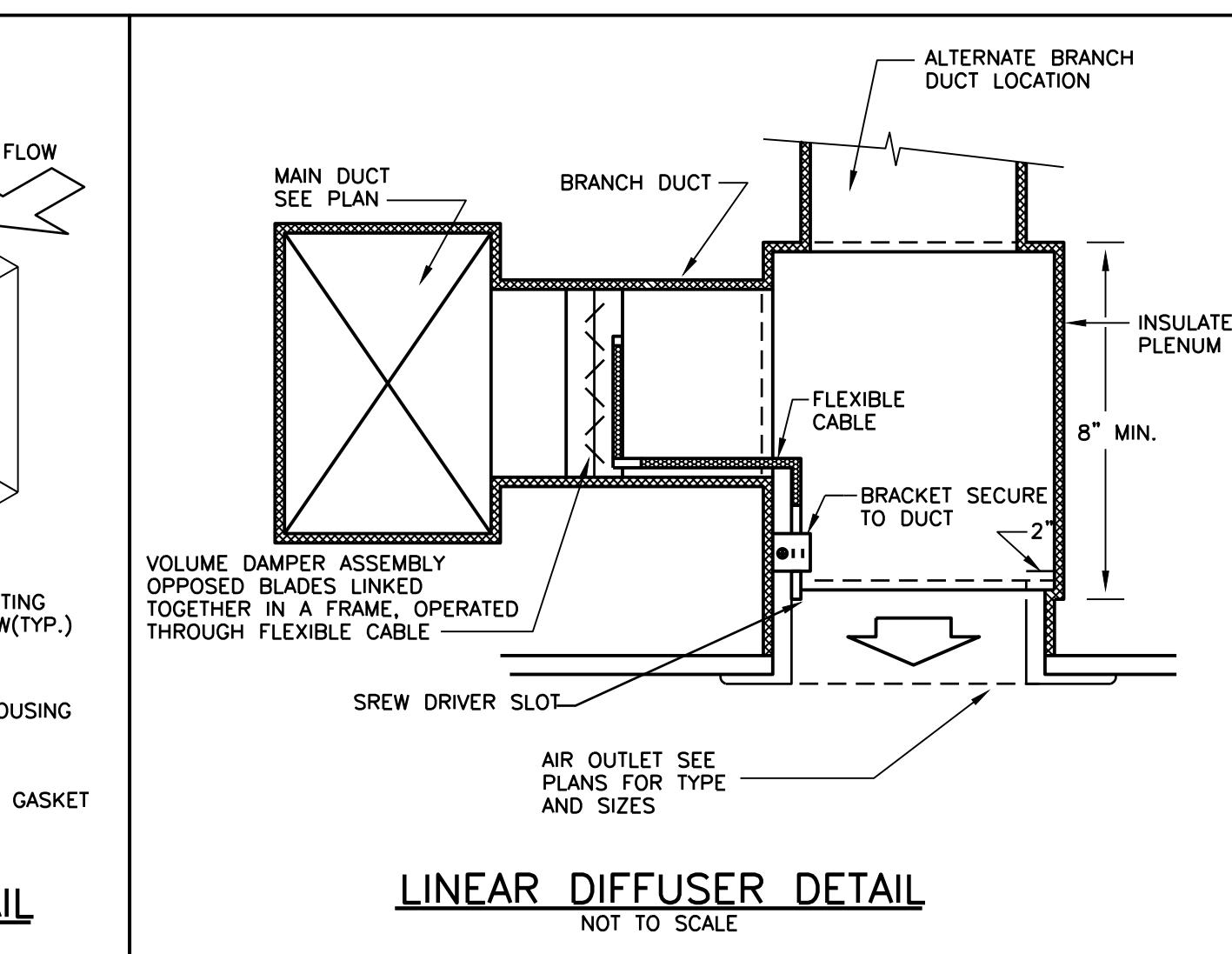
drawing title
MECHANICAL DETAILS
SHEET 3 OF 4

dob no
DOB NOW JOB# M00449689-I1

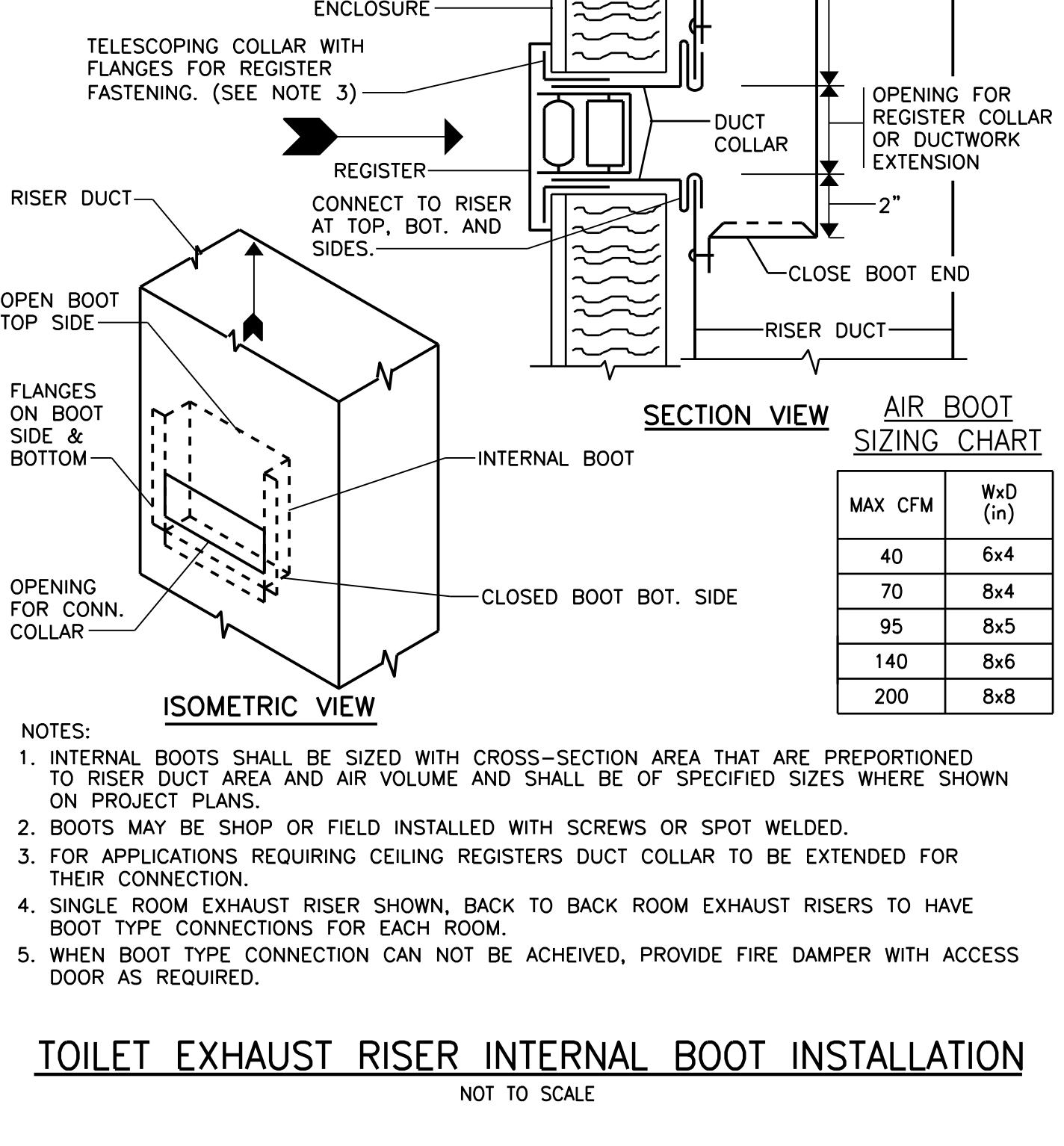
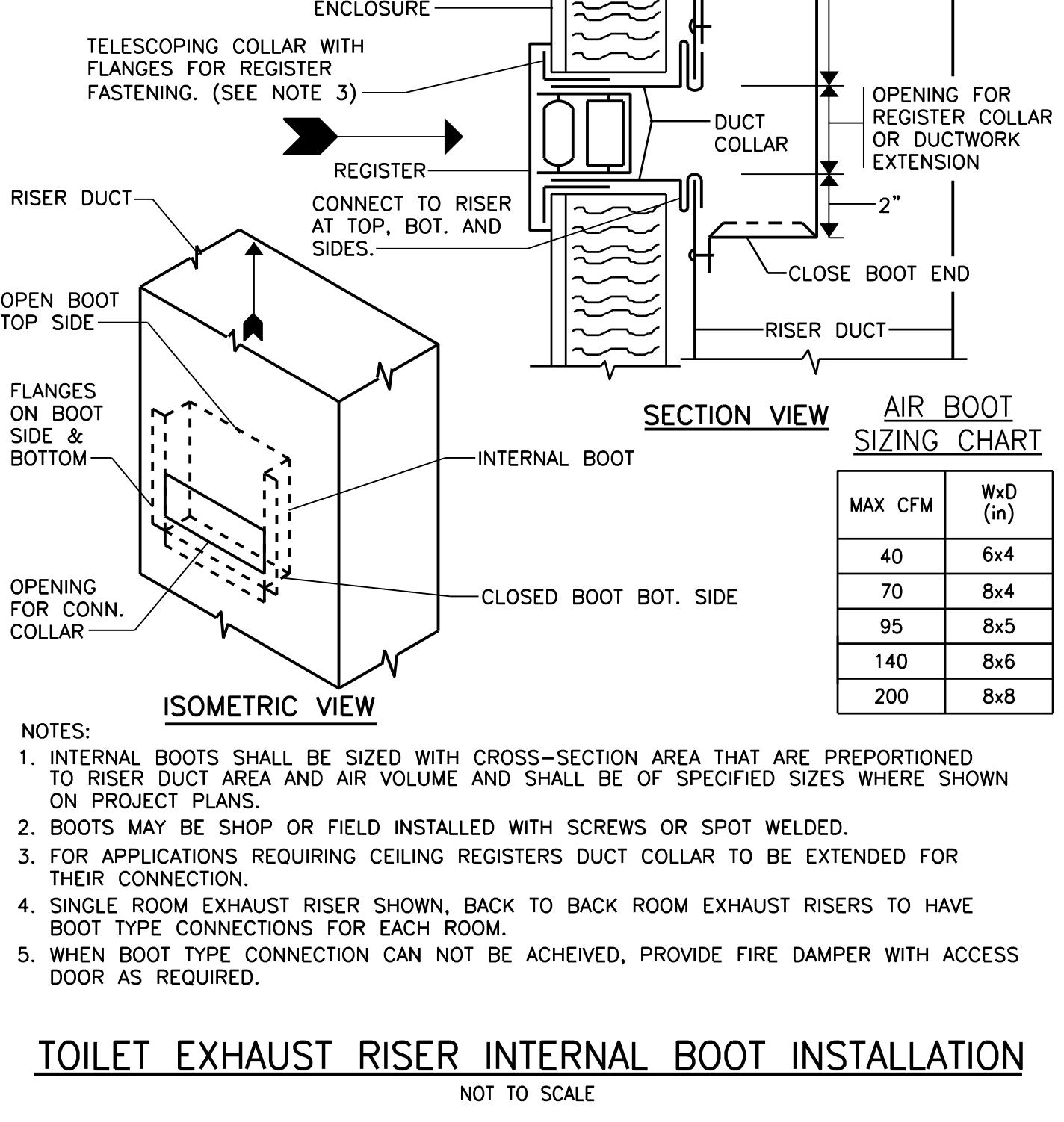
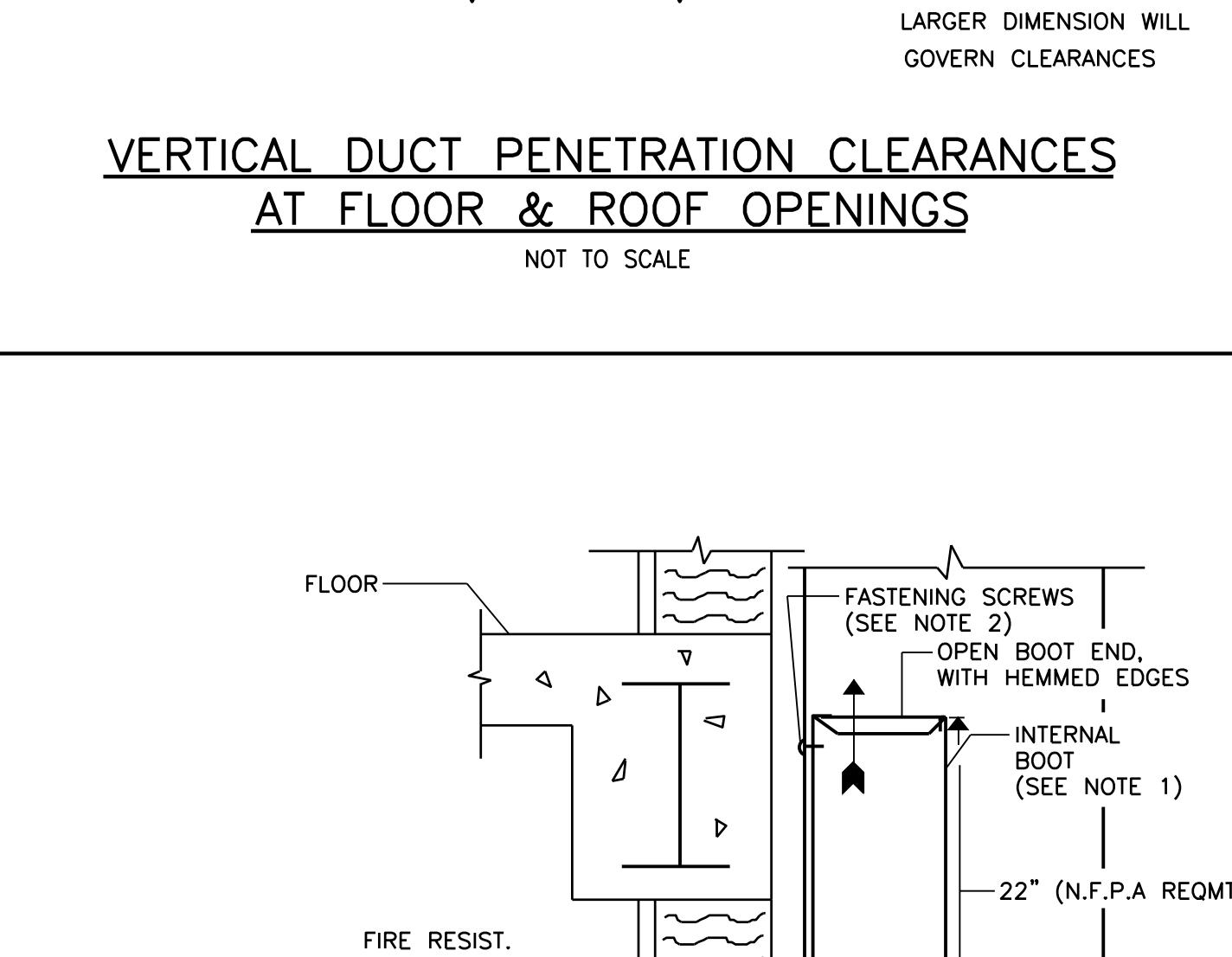
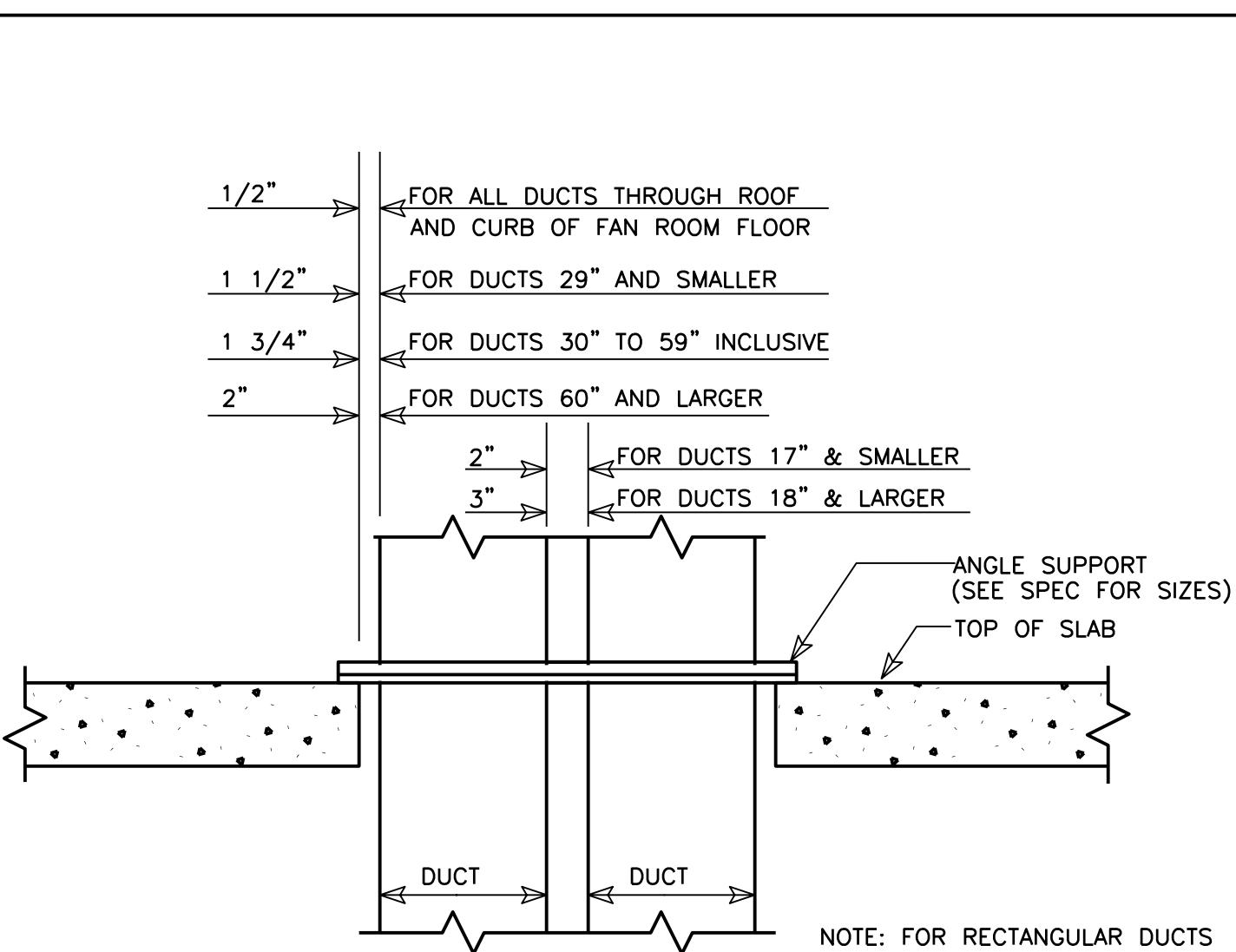
scale NONE project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 28 OF 43
drawn X X drawing no.
checked X X M-503.00



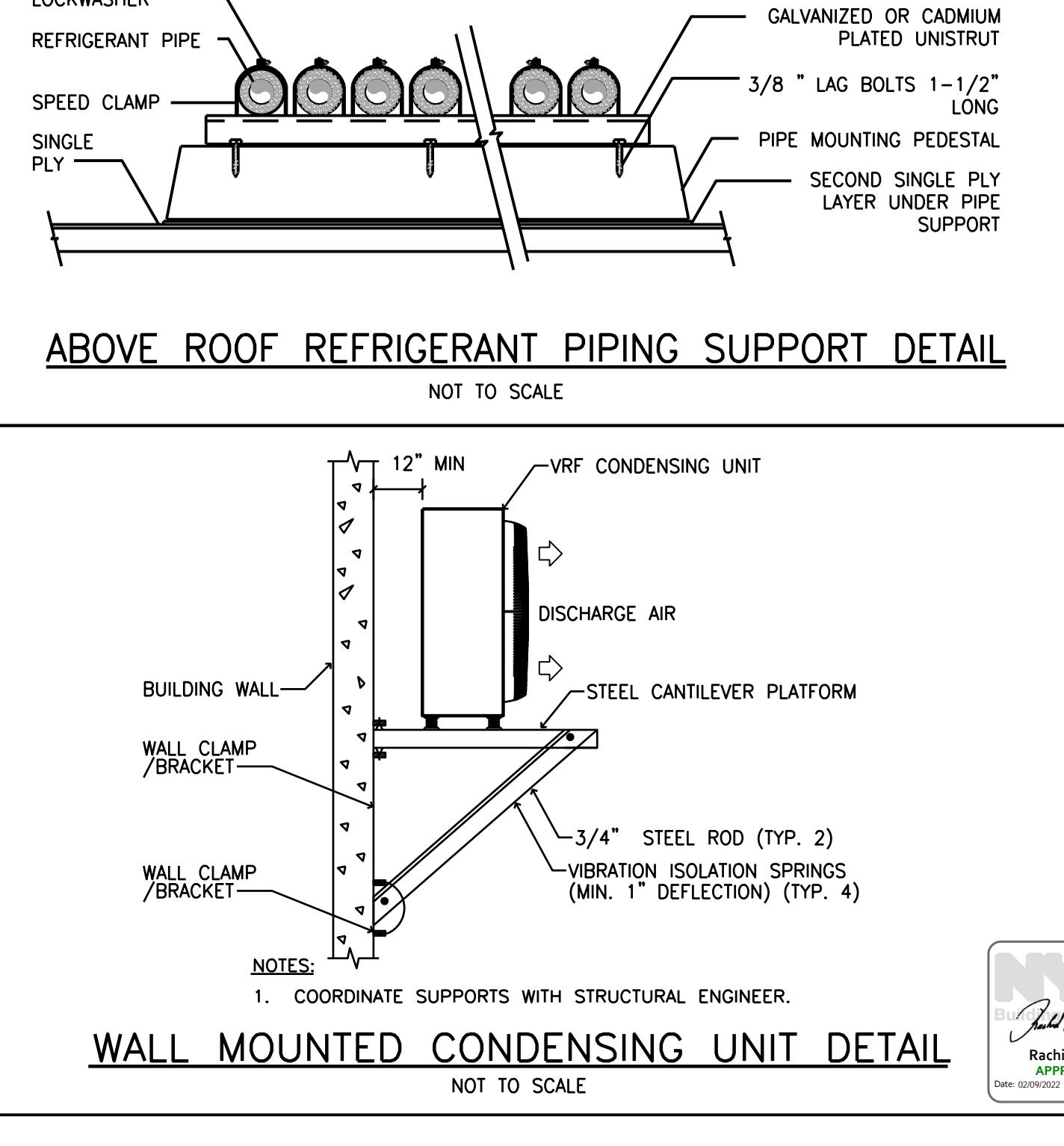
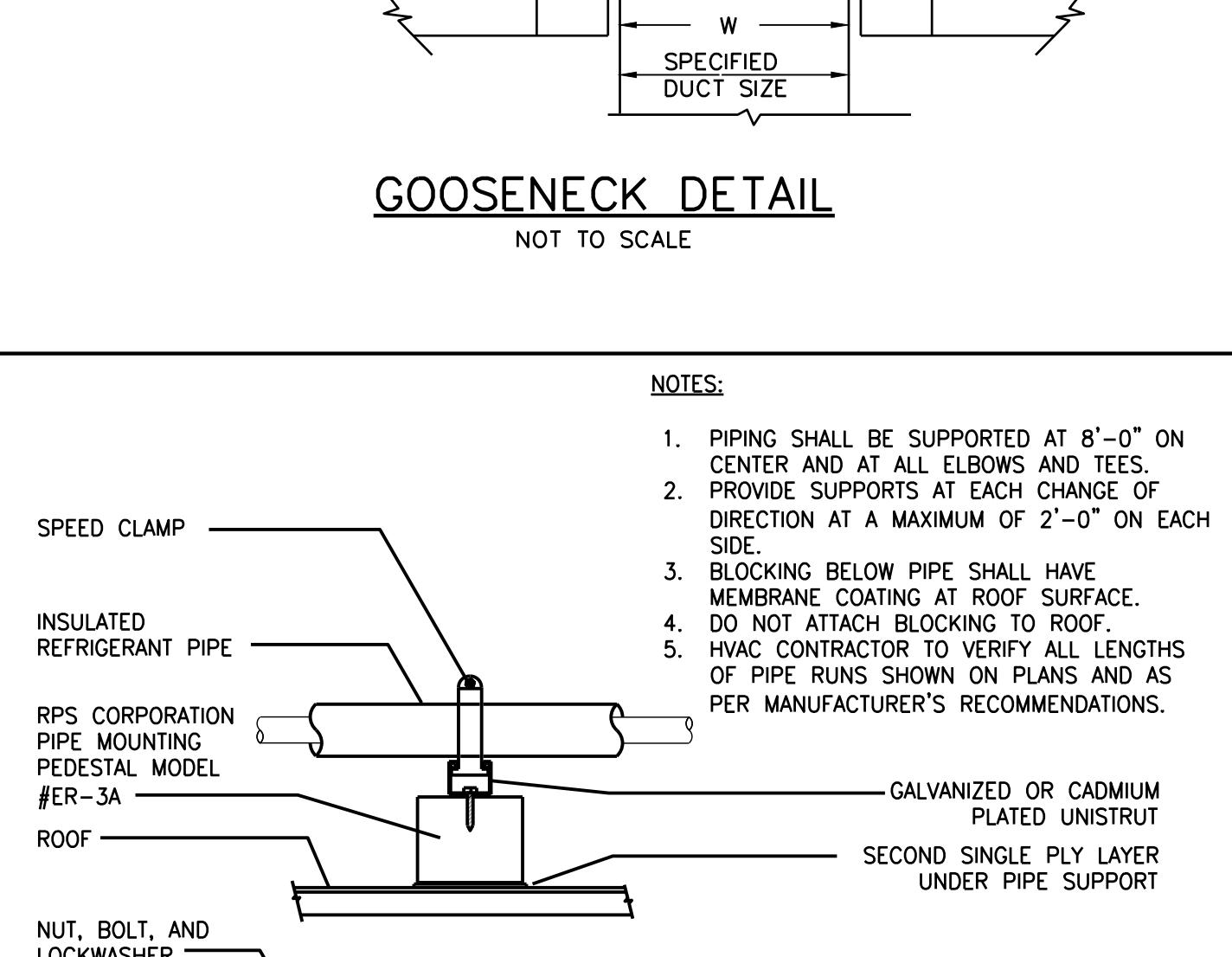
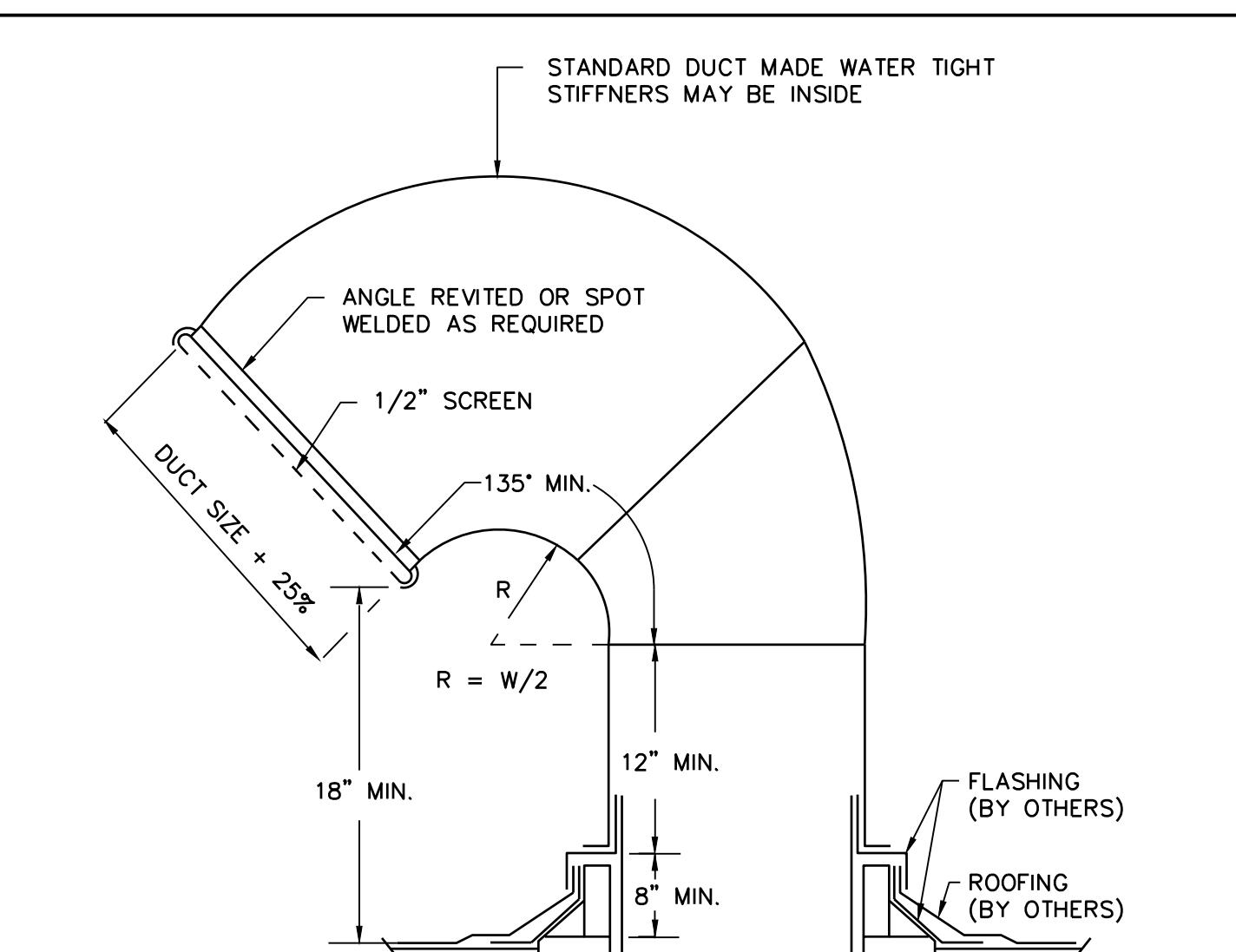
DUCT ACCESS DOORS
NOT TO SCALE



PIPE PENETRATION THRU CONCRETE
NOT TO SCALE



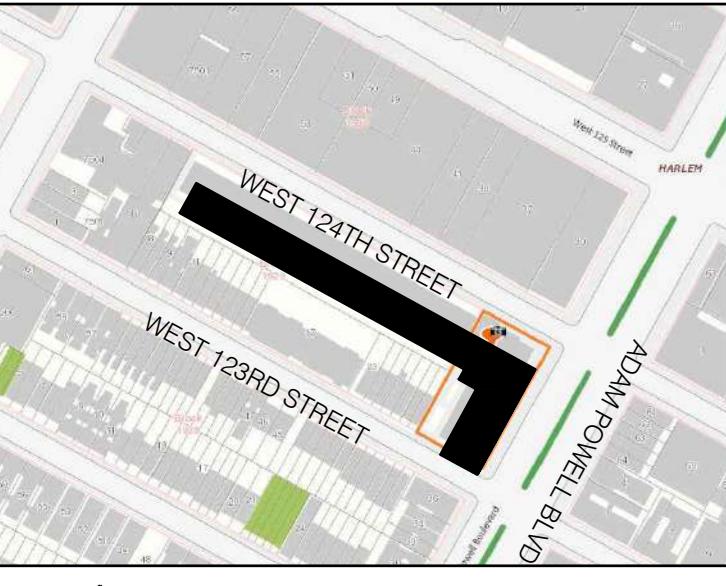
TOILET EXHAUST RISER INTERNAL BOOT INSTALLATION
NOT TO SCALE



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, N.Y. 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



BLOCK: 1929 LOT(s): 57

		01-27-22 ISSUED FOR FILING
		01-27-21 ISSUED FOR FILING
		01-17-20 ISSUED FOR MEP PROGRESS
		10-23-19 ISSUED FOR MEP PROGRESS
		08-29-19 ISSUED FOR PRICING
		08-06-19 100% MEP DD
		03-27-19 ISSUED FOR 25% CD
		06-04-18 ISSUED FOR FILING
issue	rev	date
		description
		ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOOLI
ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.FMAPICT.COM

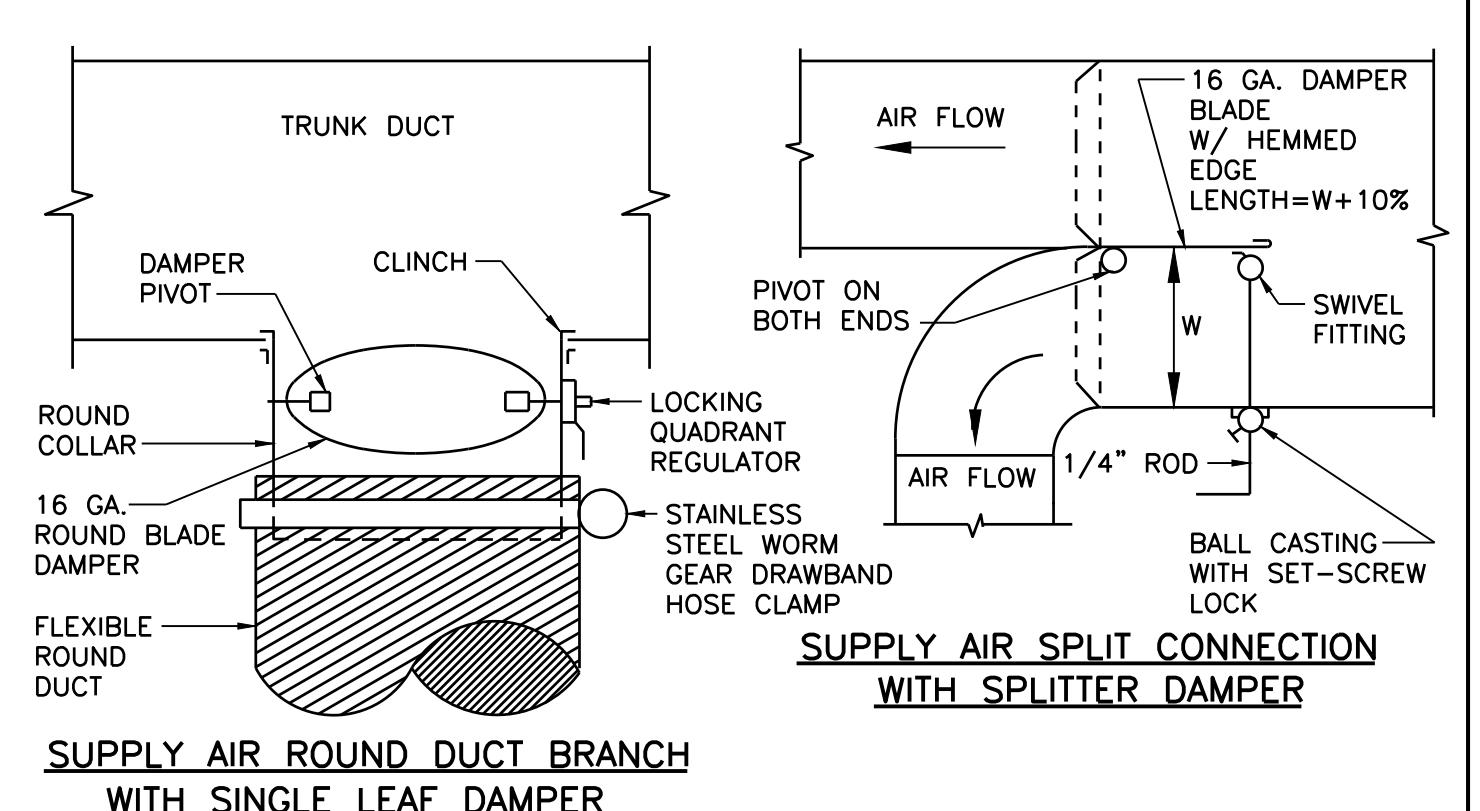
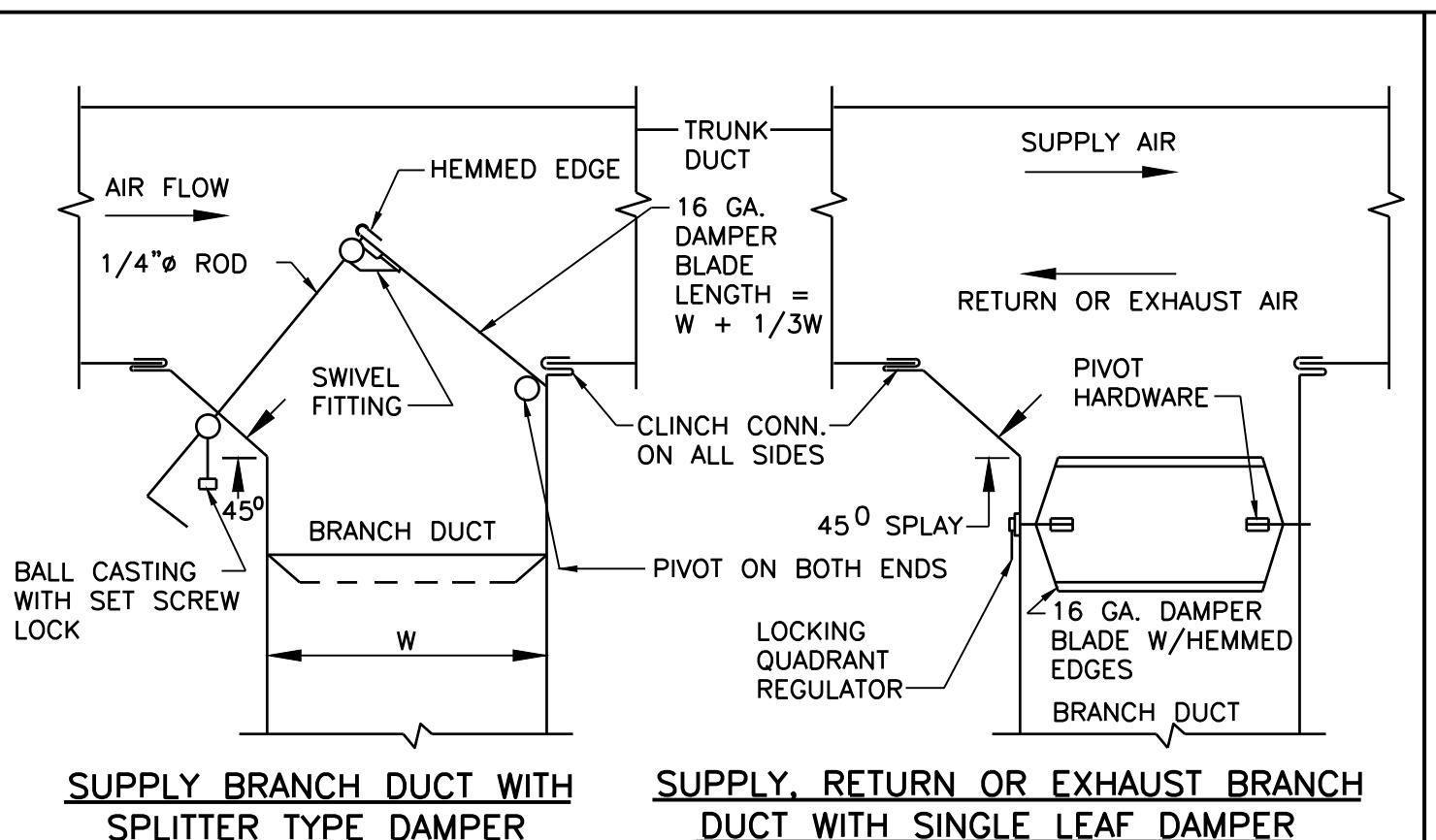


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
DETAILS
SHEET 4 OF 4

dob no
DOB NOW JOB# M00449689-I1

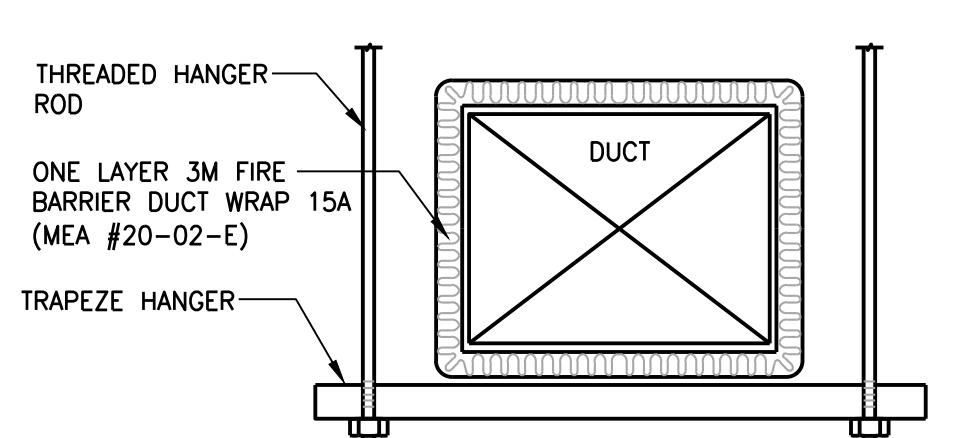
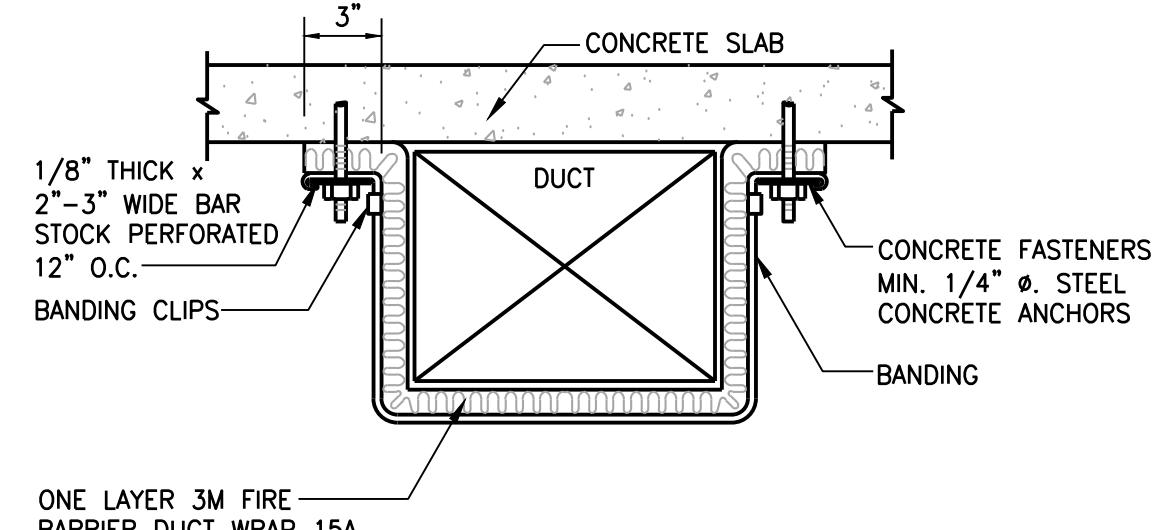
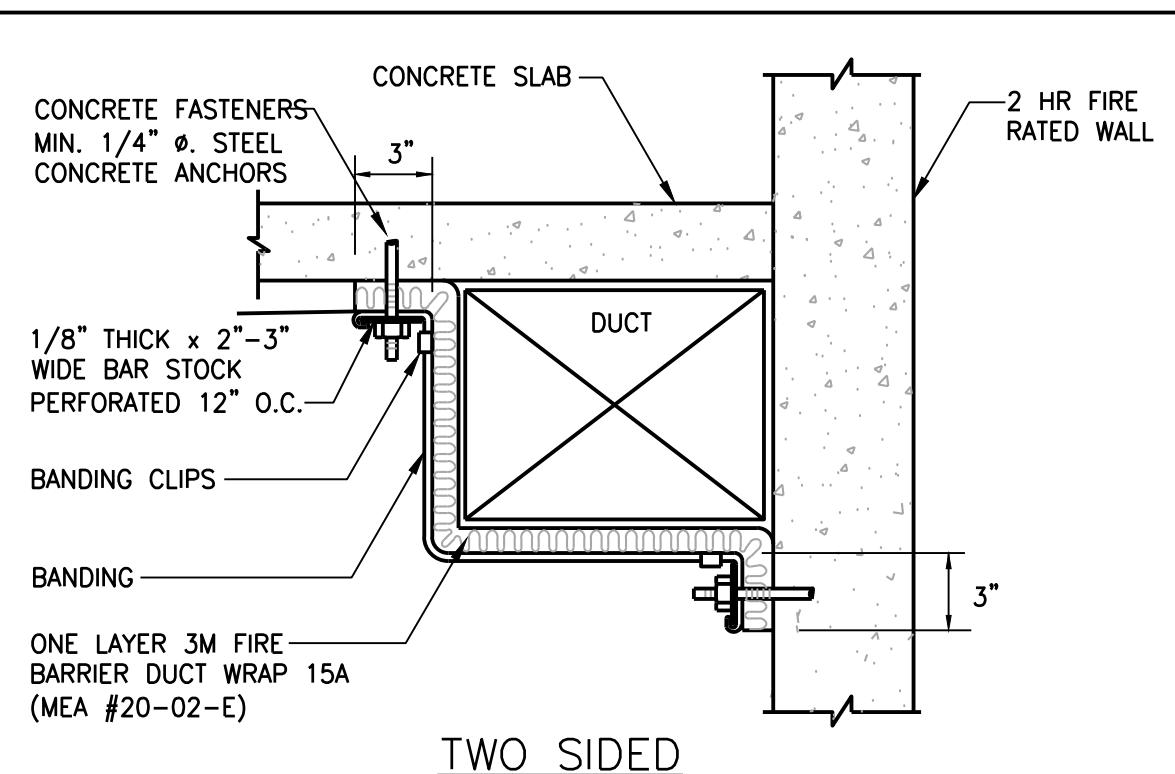
scale	NONE	project no.	8049.00 (MARKET)
date	2020-09-17	sheet no.	29 OF 43
drawn	X X	drawing no.	
checked	X X		M-504.00



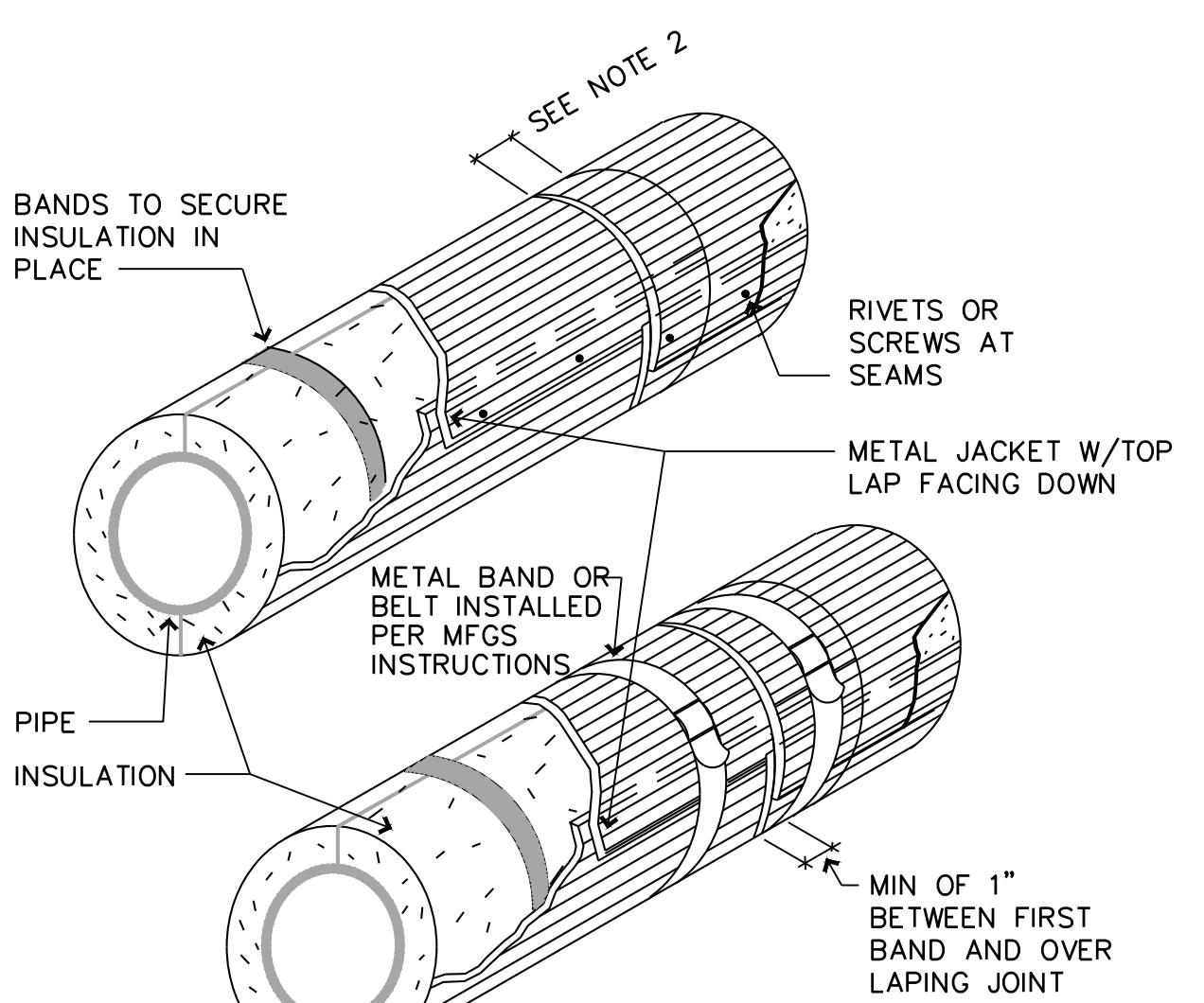
NOTES:
1. PROVIDE ALL BRANCH DUCTS WITH MANUALLY OPERATED VOLUME DAMPERS FOR BALANCING AIR SYSTEMS. THESE DAMPERS SHALL BE INDEPENDENT OF DAMPERS FURNISHED WITH DIFFUSERS AND REGISTERS, WHICH SHALL ONLY BE UTILIZED FOR TRIM BALANCING WITHOUT GENERATING NOISE.
2. FOR DUCTS WIDER THAN 48" USE MULTIPLE SINGLE LEAF DAMPERS OR OPPOSED-ACTION MULTI-BLADE DAMPERS; EACH WITH LOCKING QUADRANT REGULATOR.

BRANCH DUCT VOLUME DAMPERS

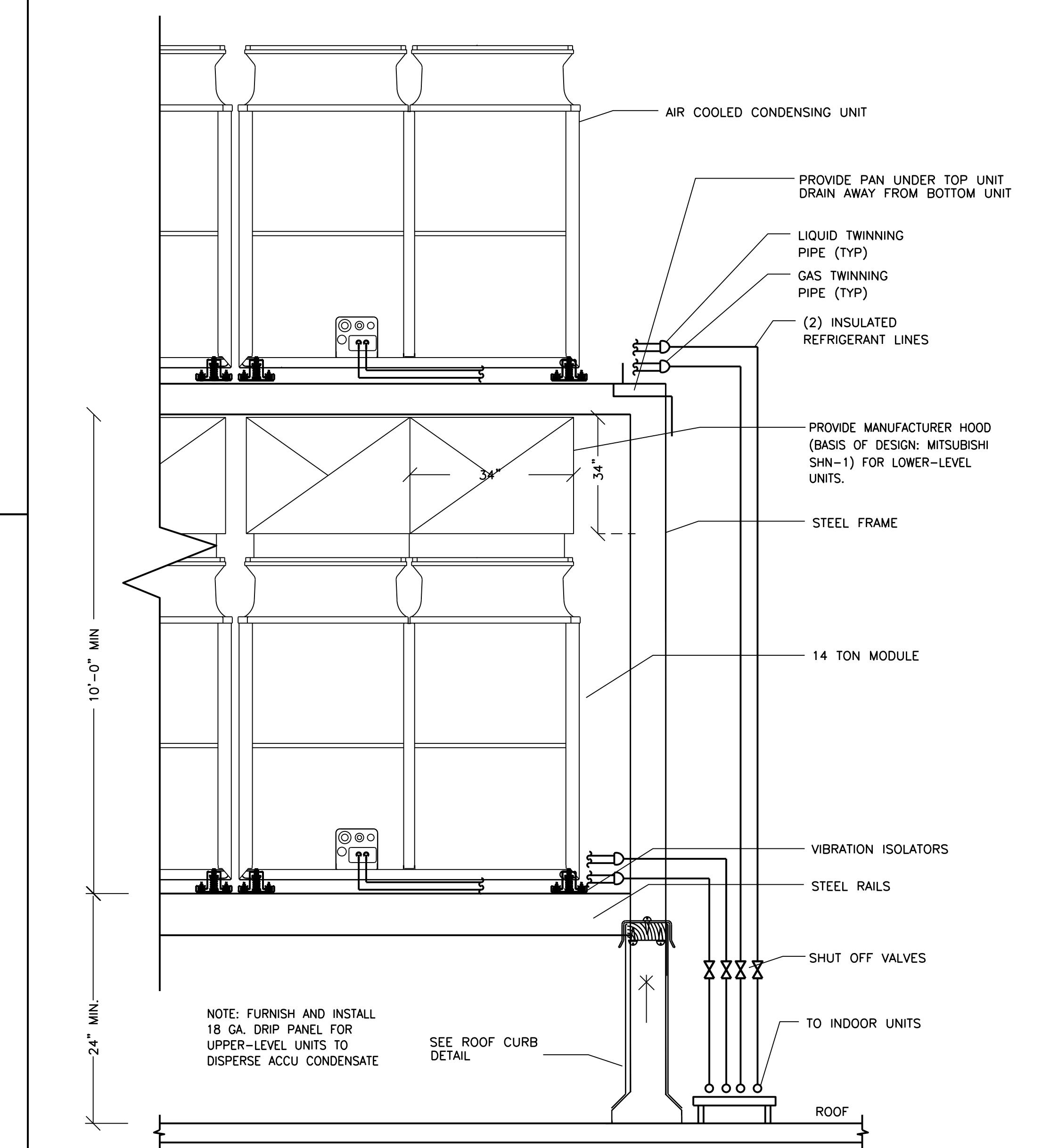
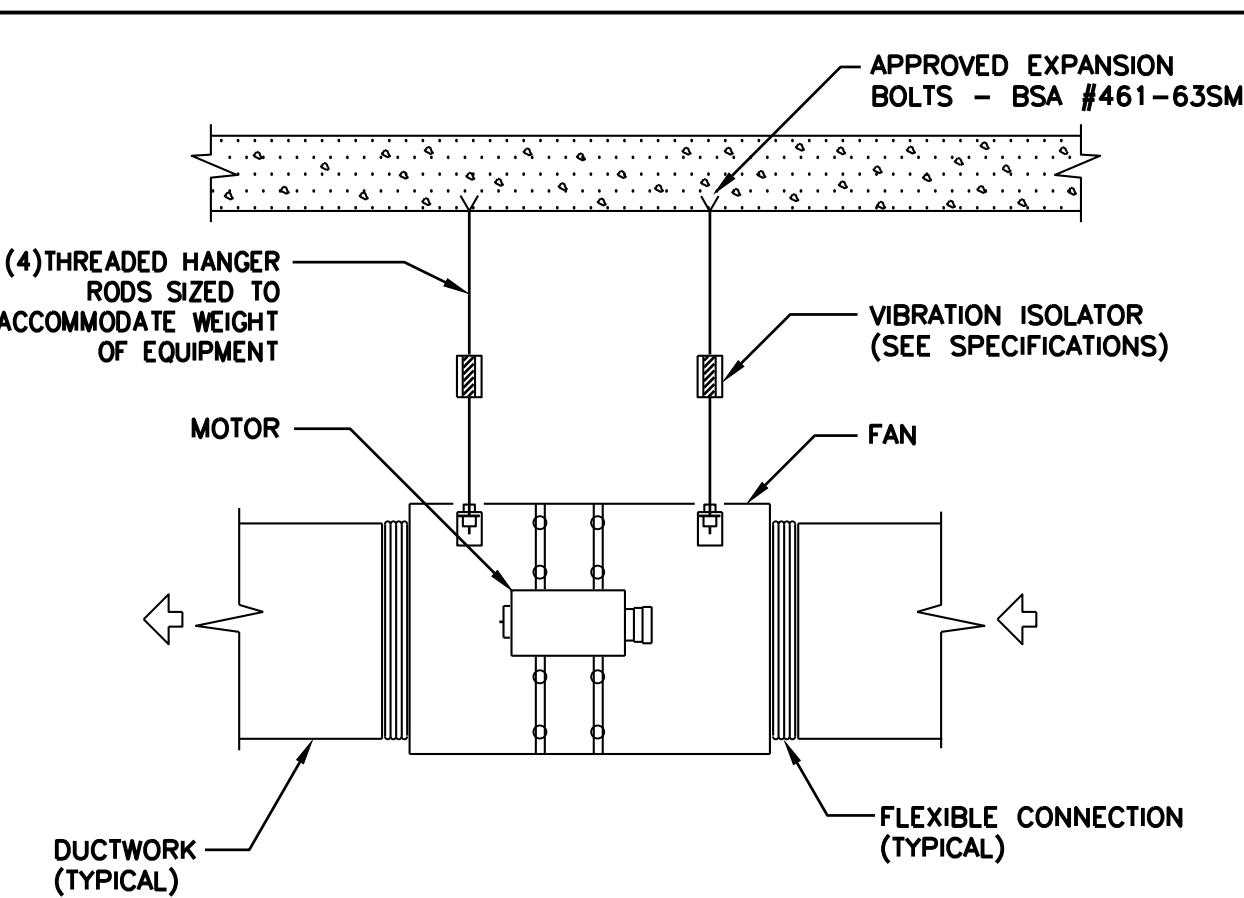
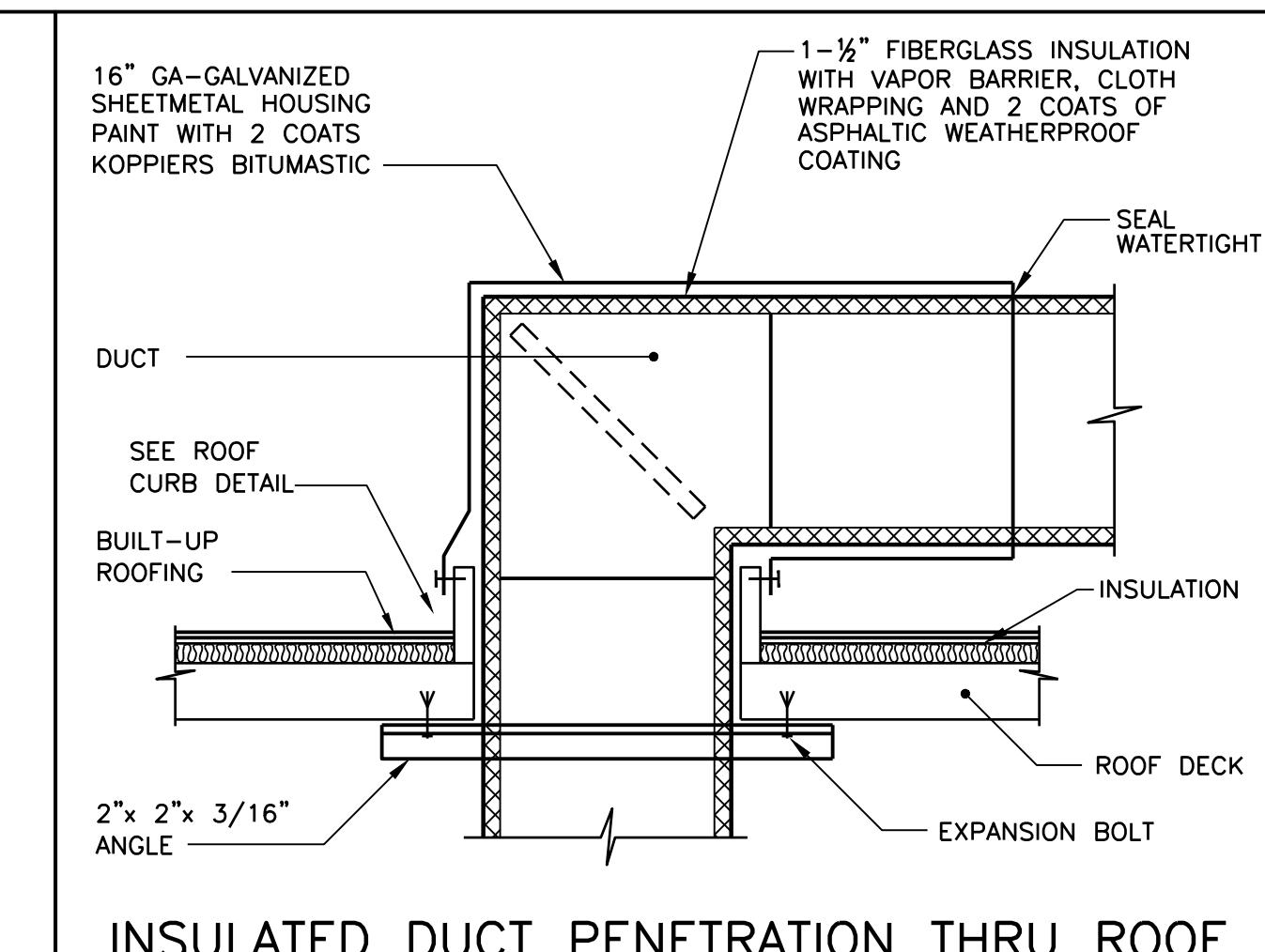
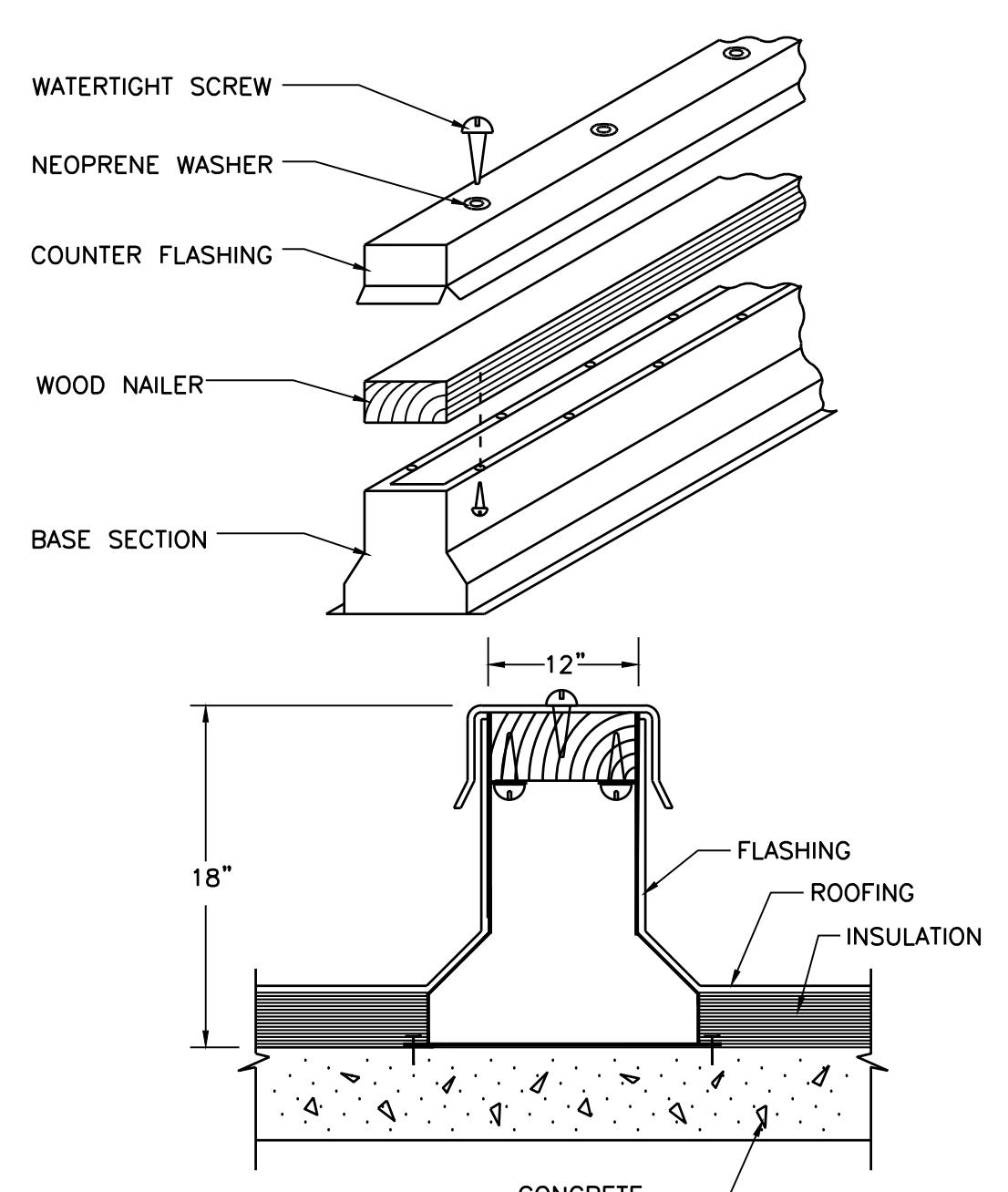
NOT TO SCALE

SUPPLY, RETURN OR EXHAUST BRANCH DUCT WITH SINGLE LEAF DAMPER**FIRE RESISTANT DUCT WRAP DETAIL**

NOT TO SCALE



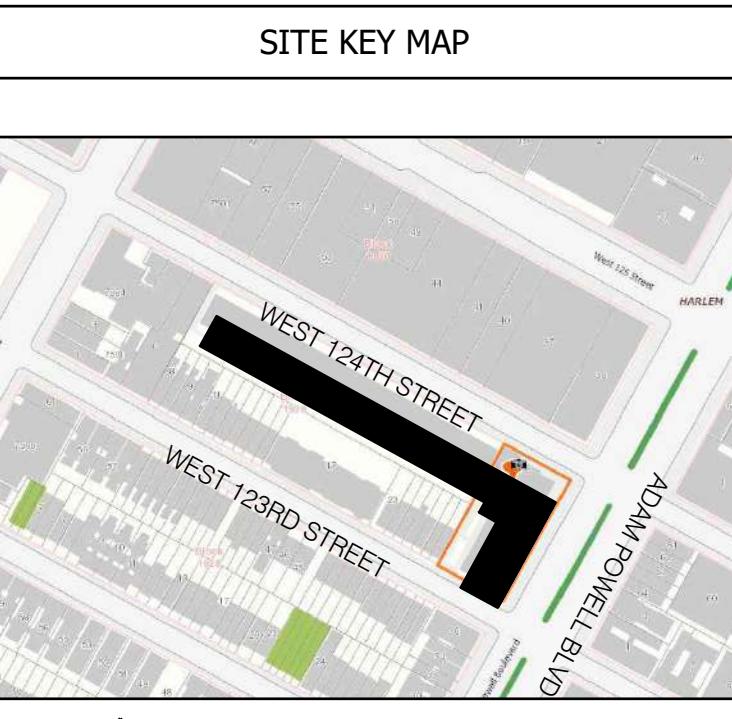
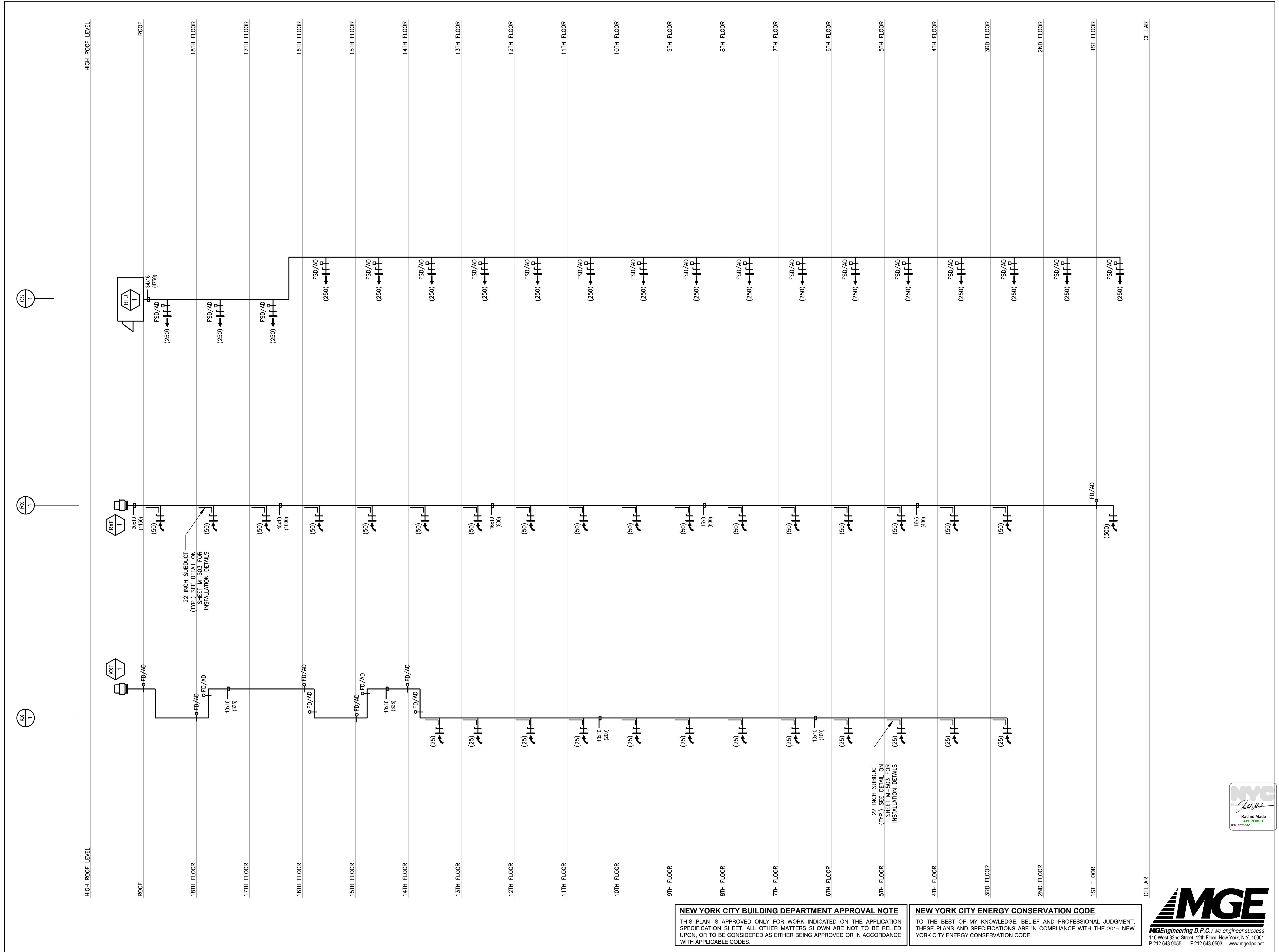
NOTES:
1. LONGITUDINAL JACKETING SEAMS POSITIONED AT 3 OR 9 O'CLOCK ONLY W/TOP LAP FACING DOWN FOR WEATHER PROOFING
2. OVERLAP JACKETING A MIN OF 1-1/2"



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MG Engineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



SITE KEY MAP

BLOCK: 1929 LOT(s): 57

issue	rev	date	description
		01-27-22	REISSUED FOR FILING
		01-27-21	REISSUED FOR FILING
		01-17-20	ISSUED FOR MEP PROGRESS
		10-23-19	ISSUED FOR MEP PROGRESS
		08-29-19	ISSUED FOR PRICING
		08-06-19	100% MEP DD
		03-27-19	ISSUED FOR 25% CD
		06-04-18	ISSUED FOR FILING

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER: DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.481.6108

CLIENT:



project title

NEW RESIDENTIAL DEVELOPMENT

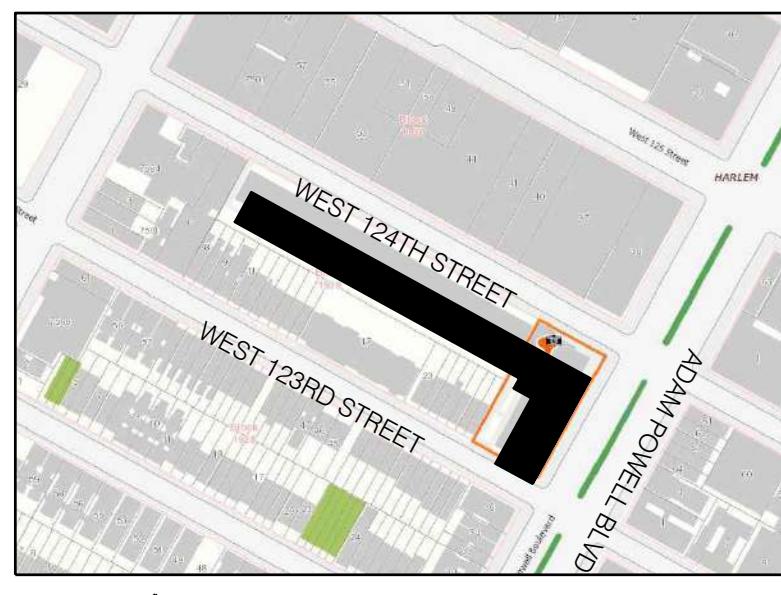
drawing title

**MECHANICAL
AIR RISER DIAGRAM
SHEET 1 OF 3**

dob no
DOB NOW JOB# M00449689-I1

scale	NONE	project no.
		8049.00 (MARKET)
date	2020-09-17	sheet no.
		30 OF 43

drawn	X X	drawing no.
checked	X X	M-601.00



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:

MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:

DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

FISCHER + MAKOO ARCHITECTS PLLC
RA, AIA
242 WEST 30TH STREET, SUITE 1102
NEW YORK, NY 10001
TEL: (212) 219-8980
FAX: (212) 219-8980
WEB SITE: WWW.MPARCHITECT.COM

SEAL

project title

NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title

MECHANICAL
AIR RISER DIAGRAM
SHEET 2 OF 3

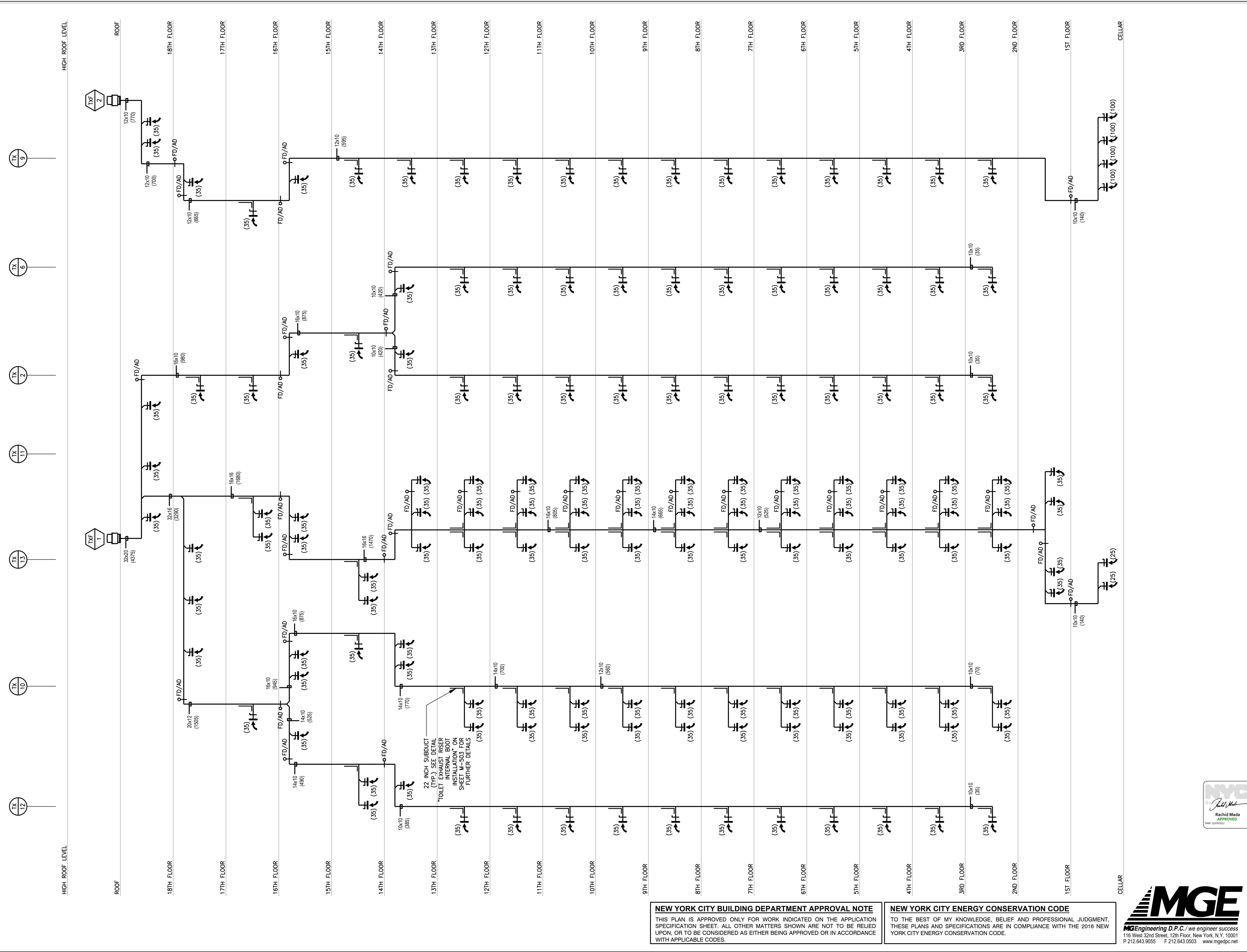
dob no
DOB NOW JOB# M00449689-I1

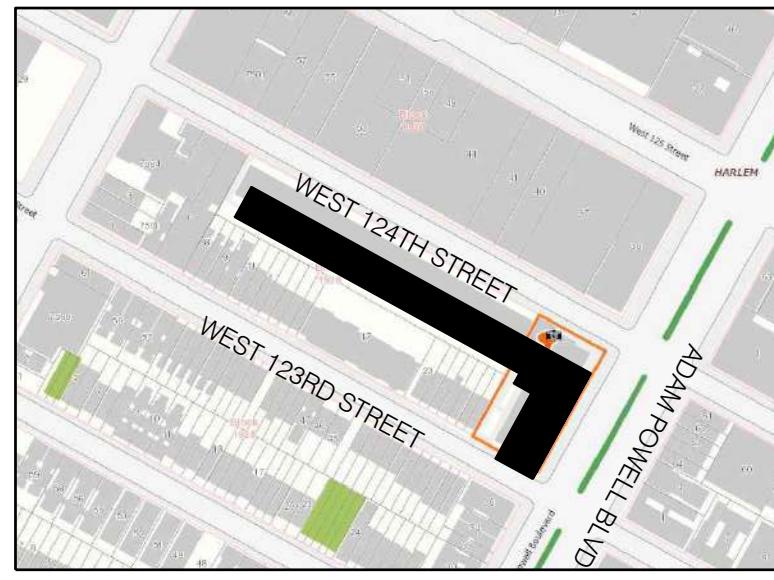
scale NONE project no. 8049.00 (MARKET)

date 2020-09-17 sheet no. 31 OF 43

drawn X X drawing no.

checked X X M-602.00





BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

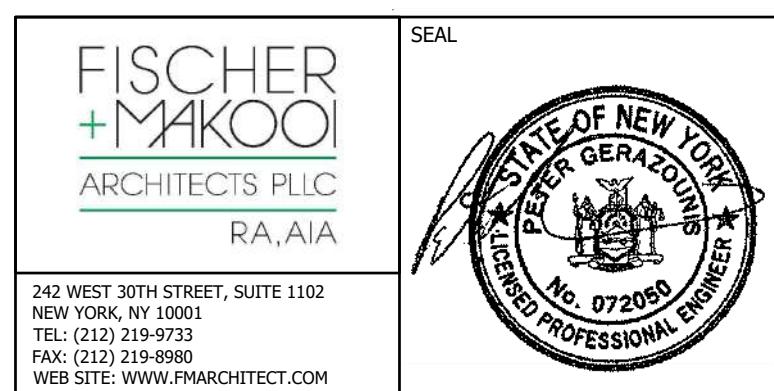
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6106

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
AIR RISER DIAGRAM
SHEET 3 OF 3

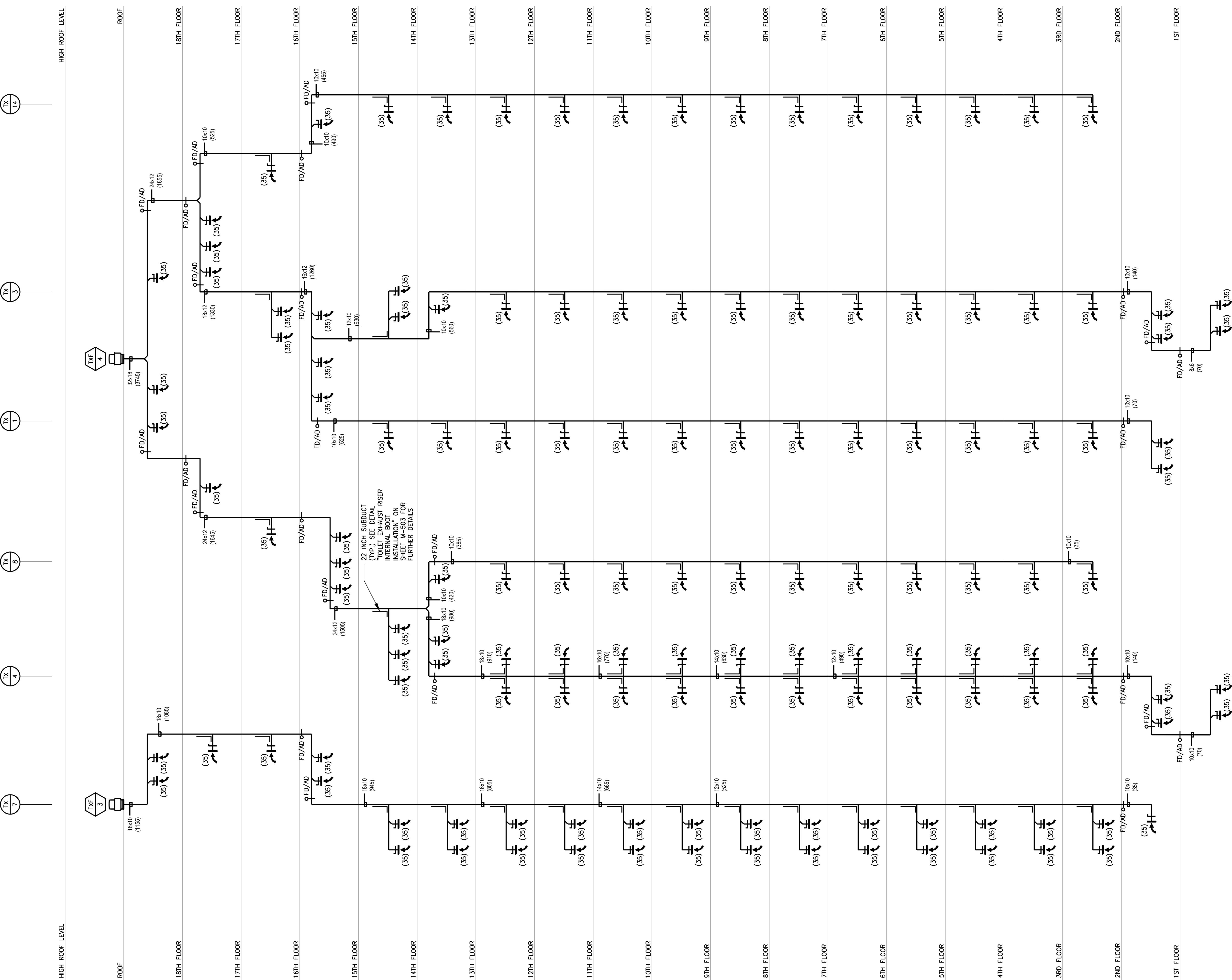
dob no
DOB NOW JOB# M00449689-I1

scale NONE **project no.** 8049.00 (MARKET)

date 2020-09-17 **sheet no.** 32 OF 43

drawn X X **drawing no.**

checked X X **M-603.00**

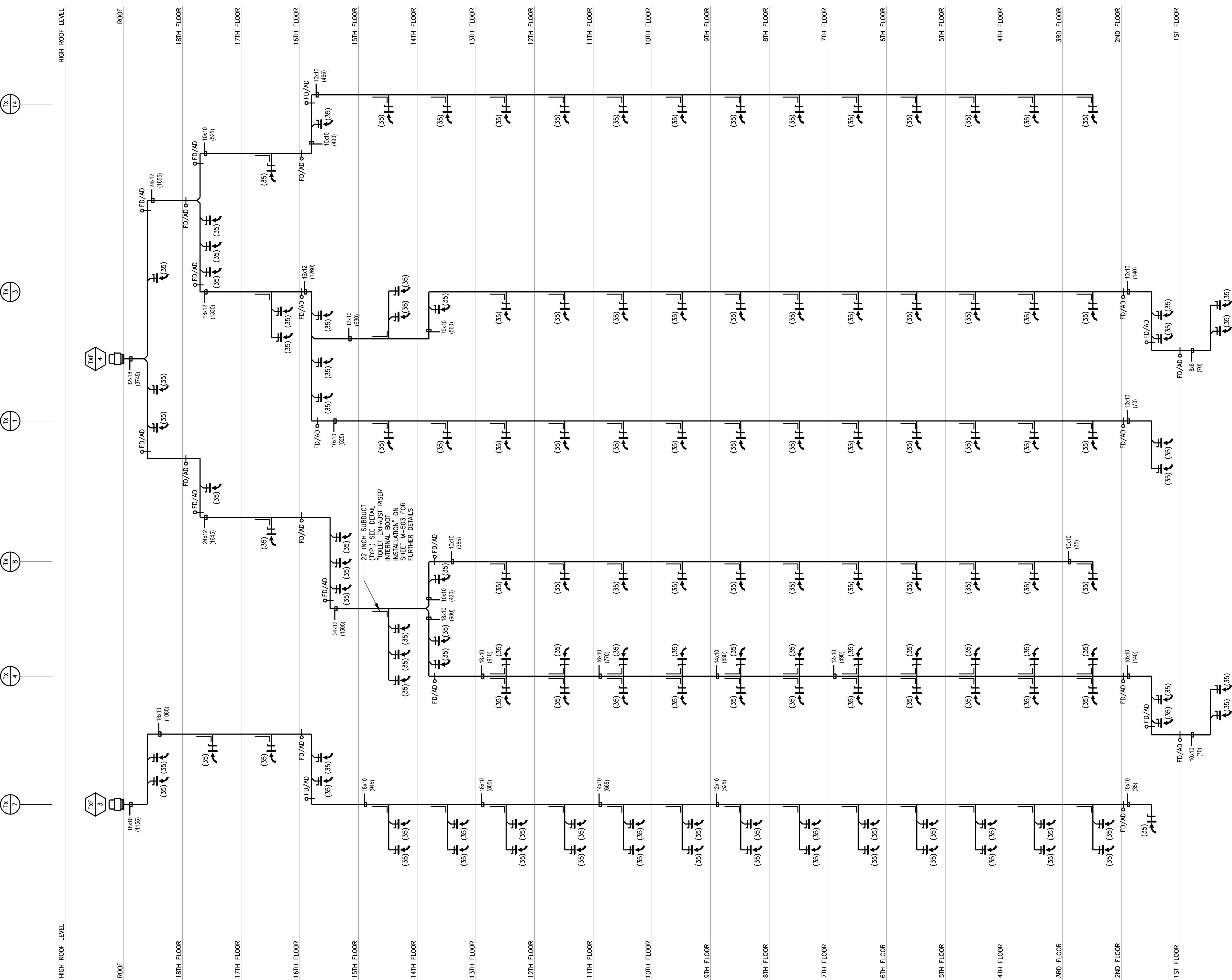


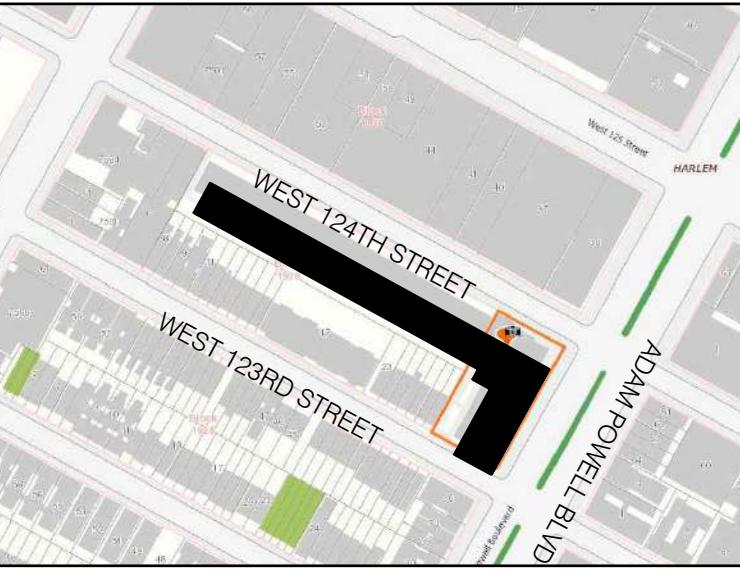
NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.



MGE
Engineering D.P.C. / we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net





BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

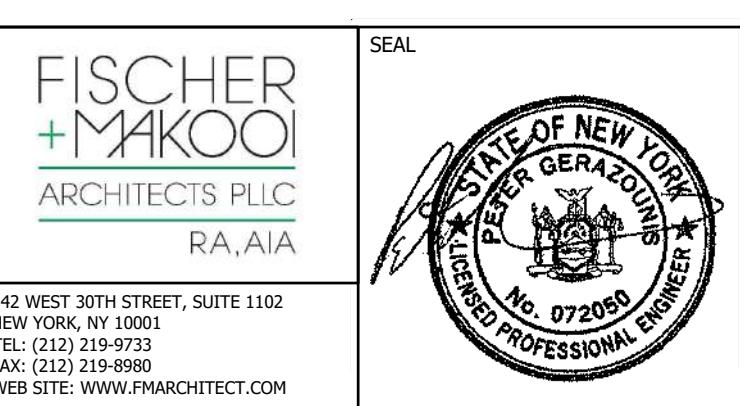
issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title

MECHANICAL
REFRIGERANT RISER DIAGRAM
SHEET 1 OF 4

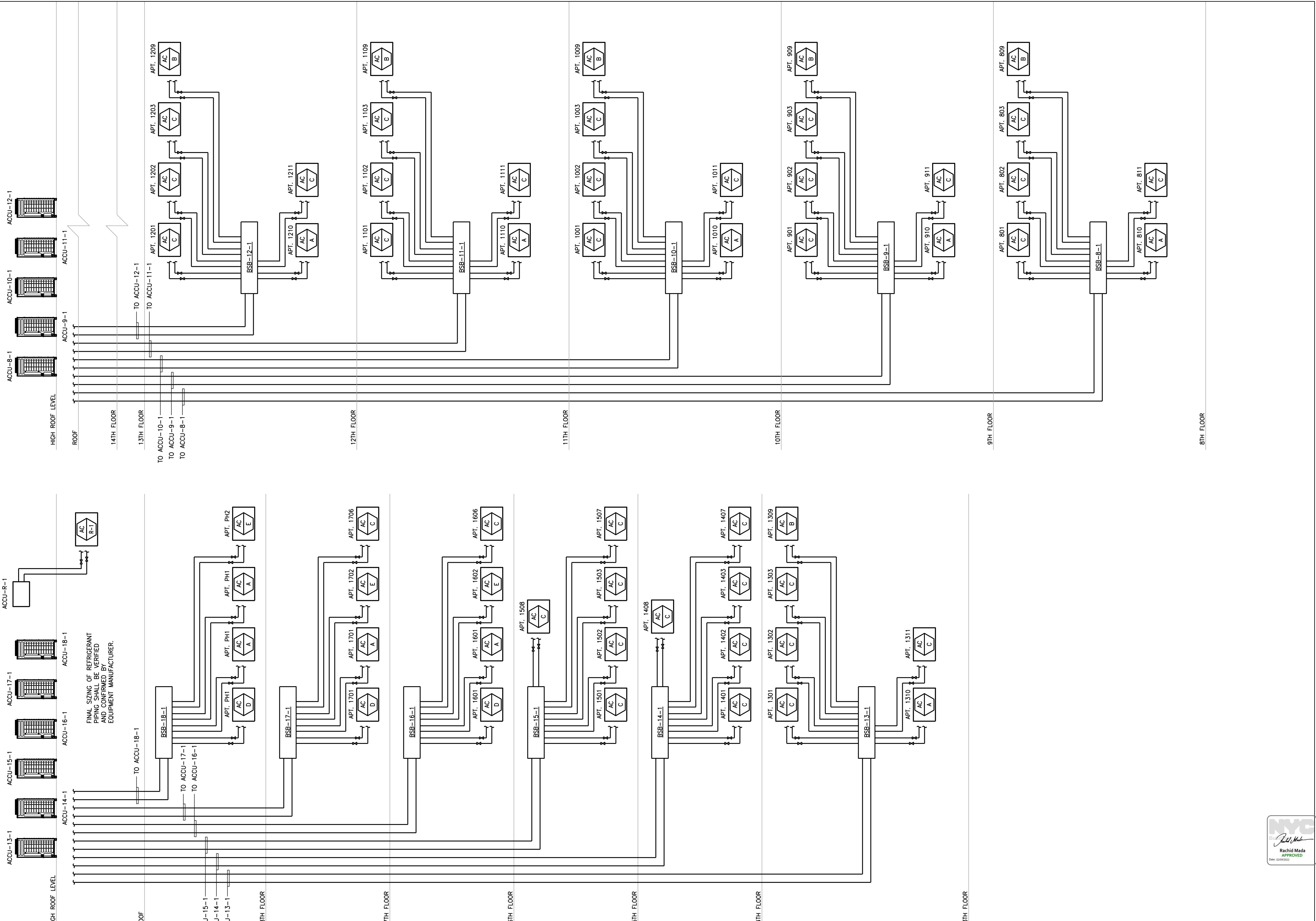
dob no
DOB NOW JOB# M00449689-I1

scale none project no 8049.00 (MARKET)

date 2020-09-17 sheet no. 33 OF 43

drawn X X drawing no.

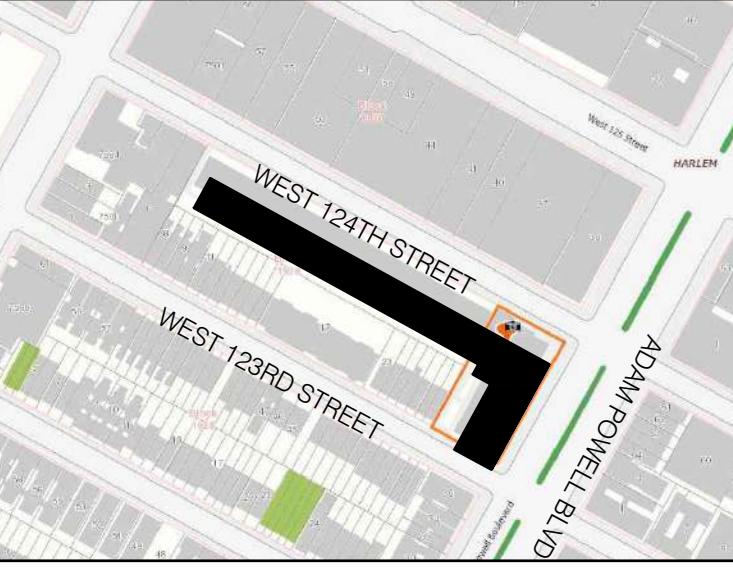
checked X X M-604.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



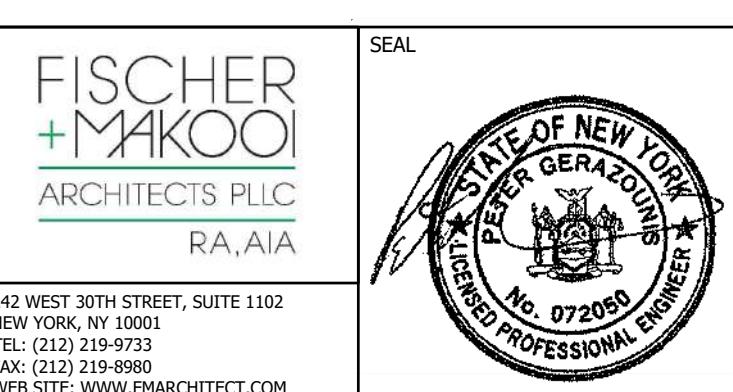
BLOCK: 1929 LOT(s): 57		
		01-27-22 REISSUED FOR FILING
		01-27-21 REISSUED FOR FILING
		01-17-20 ISSUED FOR MEP PROGRESS
		10-23-19 ISSUED FOR MEP PROGRESS
		08-29-19 ISSUED FOR PRICING
		08-06-19 100% MEP DD
		03-27-19 ISSUED FOR 25% CD
		06-04-18 ISSUED FOR FILING
issue	rev	date
		description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:

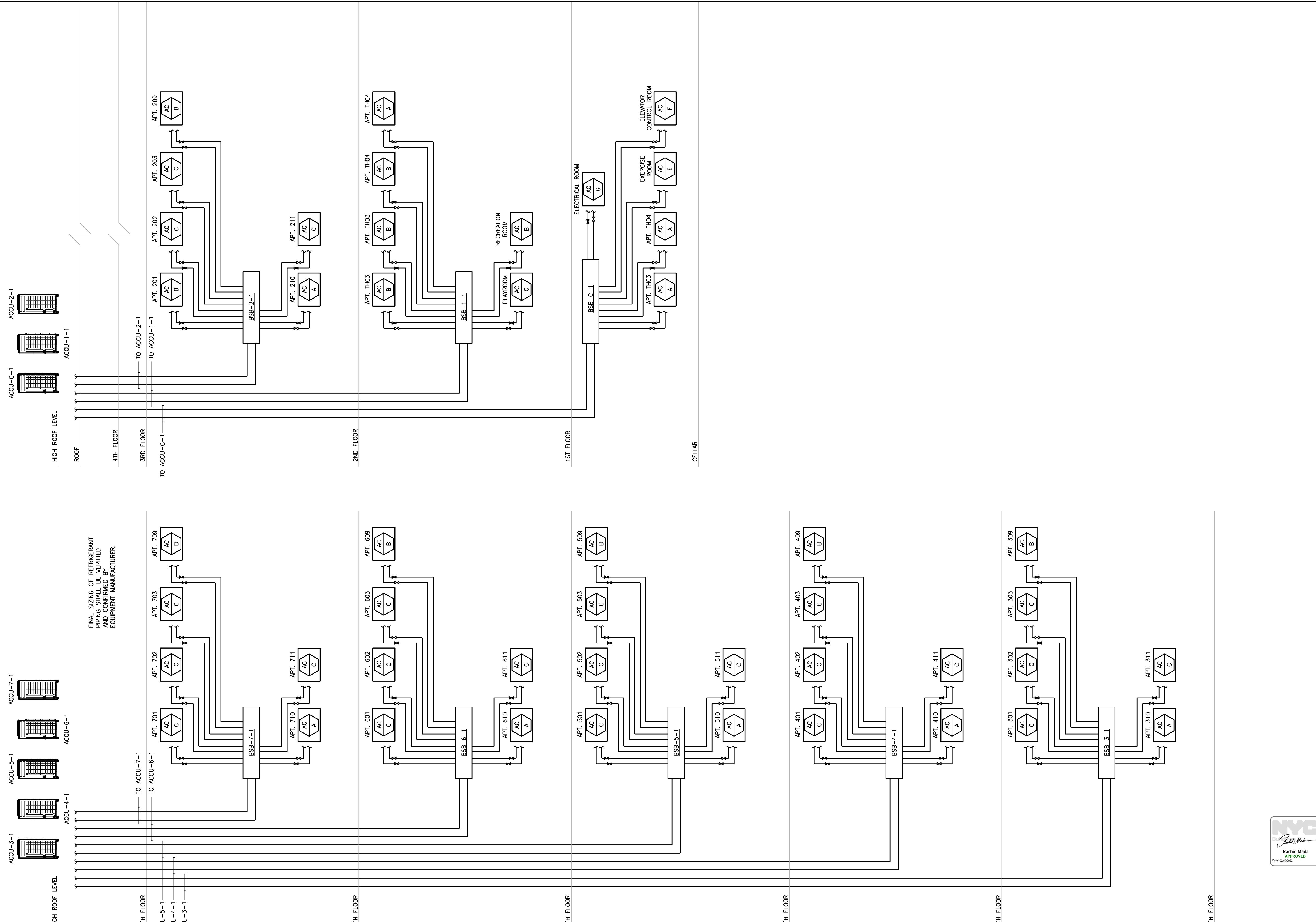


project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
REFRIGERANT RISER DIAGRAM
SHEET 2 OF 4

dob no
DOB NOW JOB# M00449689-I1

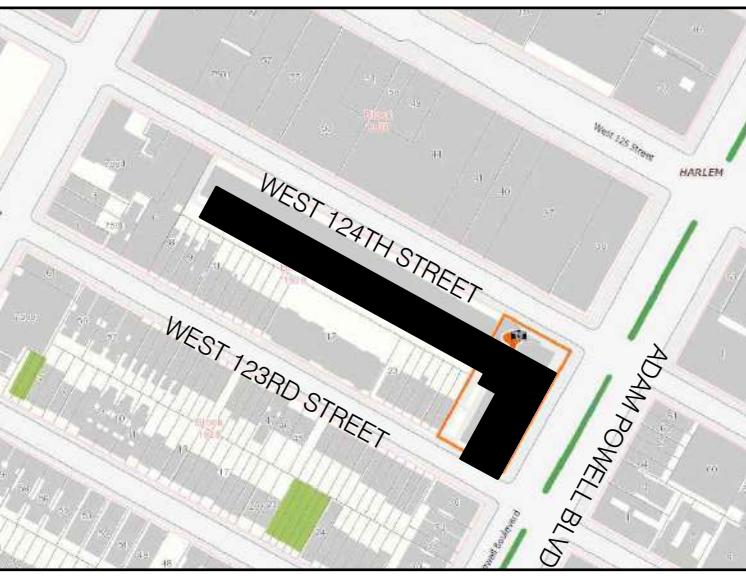
scale	NONE	project no.	8049.00 (MARKET)
date	2020-09-17	sheet no.	34 OF 43
drawn	X X	drawing no.	
checked	X X		M-605.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MG Engineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, N.Y. 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



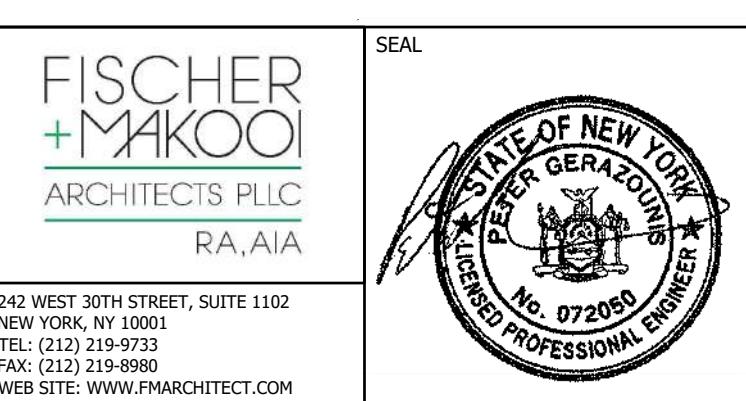
BLOCK: 1929 LOT(s): 57		
01-27-22	REISSUED FOR FILING	
01-27-21	REISSUED FOR FILING	
01-17-20	ISSUED FOR MEP PROGRESS	
10-23-19	ISSUED FOR MEP PROGRESS	
08-29-19	ISSUED FOR PRICING	
08-06-19	100% MEP DD	
03-27-19	ISSUED FOR 25% CD	
06-04-18	ISSUED FOR FILING	
issue	rev	date
		description

ISSUES/REVISONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
REFRIGERANT RISER DIAGRAM
SHEET 4 OF 4

dob no

scale NONE project no. 8049.00 (MARKET)

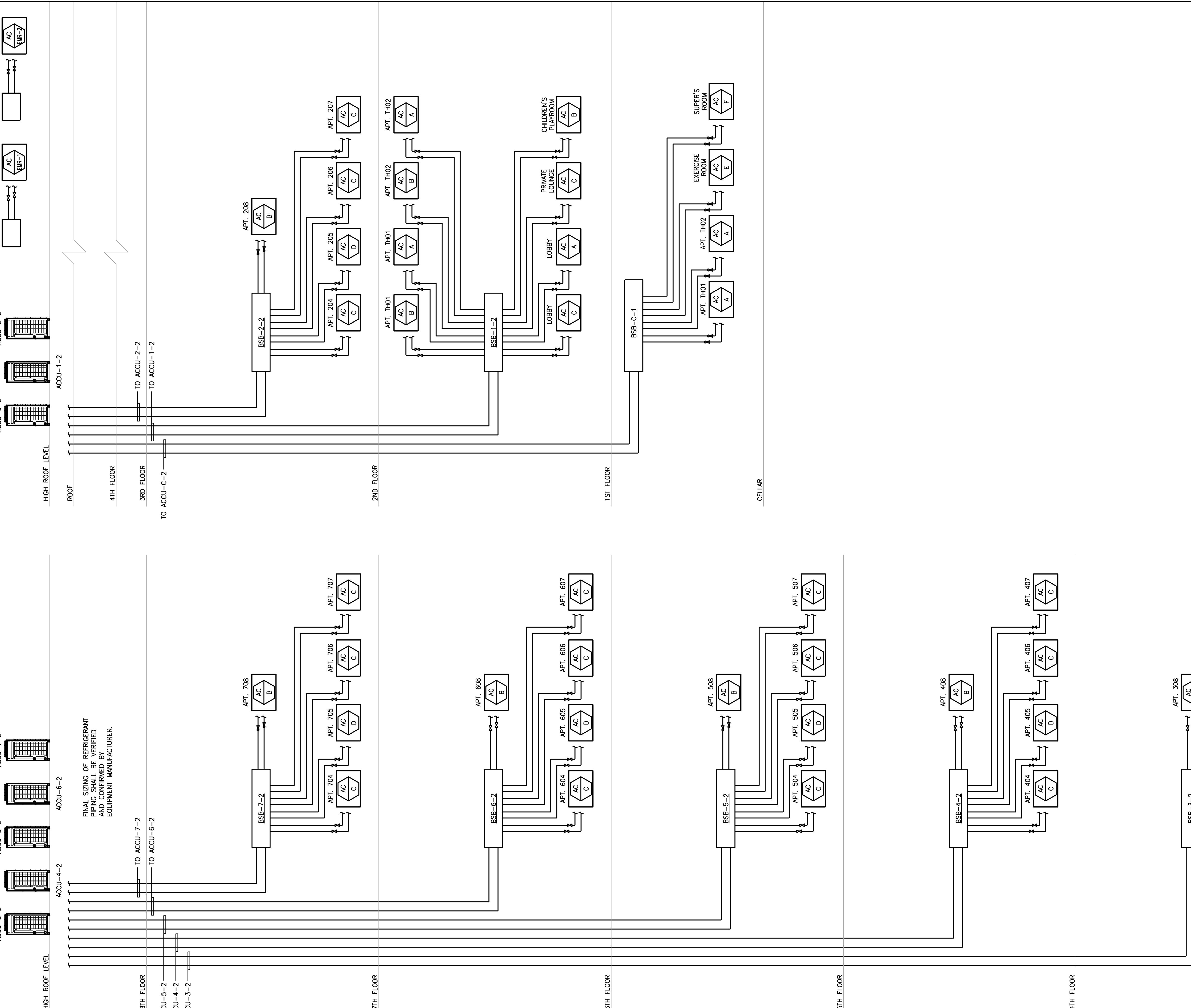
date 2020-09-17 sheet no. 36 OF 43

drawn -- drawing no.

checked -- M-607.00

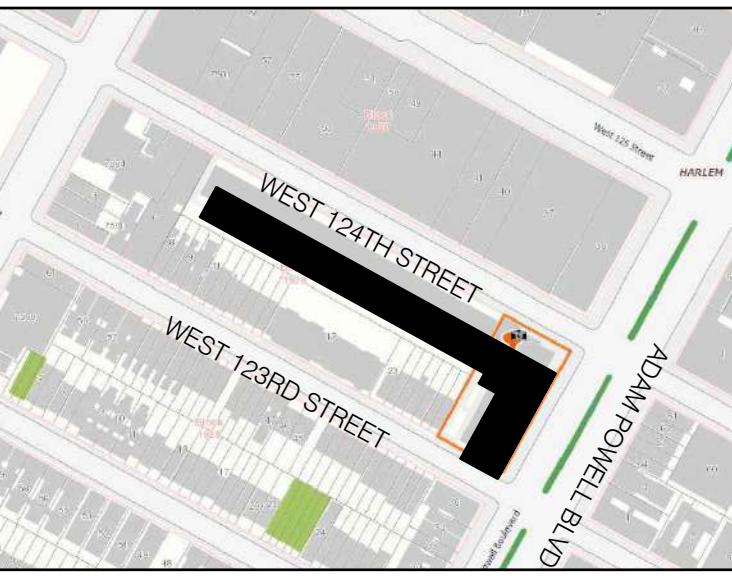


MGE Engineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.



BLOCK: 1929 LOT(s): 57

DESIGNATION	LOCATION	SERVICE	SUMMER AMBIENT AIR TEMP. (°F) DB/WB	WINTER AMBIENT AIR TEMP. (°F) DB	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	COMPRESSOR			CONDENSER FAN				ELECTRICAL DATA			EER	IEER	VIBRATION ISOLATION		REFRIG. TYPE	OPERATING WEIGHT (LBS)	DIMENSIONS (L"XW"XH")	MANUFACTURER / MODEL	REMARKS			
							QTY	KW INPUT	LRA	RLA	QTY	TYPE	DRIVE	KW (EACH)	CFM	RPM	V/Φ/Hz	MCA	MOP	TYPE	DEFLECTION (IN.)							
ACCU-C-2, ACCU-15-2, ACCU-18-2	ROOF	SEE PLANS	95/75	5	96,201	90,861	1	-	7	-	2	PROPELLER	-	0.46 (EACH)	7400	-	460/3/60	14	20	SPRING	1"	R-410A	649	49x30x72	MITSUBISHI PURY-EP96YNU-A			
ACCU-C-1, ACCU-2-1, ACCU-2-2, ACCU-3-2, ACCU-4-2, ACCU-5-1, ACCU-5-2, ACCU-6-1, ACCU-6-2, ACCU-7-1, ACCU-7-2, ACCU-8-1, ACCU-8-2, ACCU-9-1, ACCU-9-2, ACCU-10-1, ACCU-10-2, ACCU-11-1, ACCU-11-2, ACCU-12-1, ACCU-12-2, ACCU-13-1, ACCU-13-2, ACCU-14-1, ACCU-14-2, ACCU-15-1, ACCU-16-1, ACCU-17-1, ACCU-17-2, ACCU-18-1	ROOF	SEE PLANS	95/75	5	120,146	113,538	1	-	7	-	2	PROPELLER	-	0.46 (EACH)	8300	-	460/3/60	19	30	10.6	15.9	SPRING	1"	R-410A	657	49x30x72	MITSUBISHI PURY-EP120YNU-A	
ACCU-1-2, ACCU-3-1, ACCU-4-1	ROOF	SEE PLANS	95/75	5	144,175	121,477	1	-	7	-	2	PROPELLER	-	0.46 (EACH)	9550	-	460/3/60	22	35	12.2	19.7	SPRING	1"	R-410A	715	49x30x72	MITSUBISHI PURY-EP144YNU-A	
ACCU-EMR-1, ACCU-EMR-2	ELEVATOR MACHINE ROOM	SEE PLANS	95/75	N/A	27,738	-	-	-	16.1	12.9	-	-	-	-	-	-	208/1/60	19	25	12.5	20.5	SPRING	1"	R-410A	119	33x13x35	MITSUBISHI PURY-A30NHA7	
ACCU-R-1	ROOF	SEE PLANS	95/75	N/A	27,738	-	-	-	16.1	12.9	-	-	-	-	-	-	208/1/60	19	25	12.5	20.5	SPRING	1"	R-410A	119	33x13x35	MITSUBISHI PURY-A30NHA7	

NOTES:
1. FOR EACH FLOOR PROVIDE FULL PORT
REFRIGERATION (R410-A COMPATIBLE) BALL VALVES
WITH SCHRAEDER PORTS AT BOTH ENDS. VALVE
DESIGN WORKING PRESSURE SHALL BE 600 PSI
MINIMUM, SIMILAR TO NDL INDUSTRIES TYPE NBV

OR APPROVED EQUAL.
2. CONTRACTOR TO FURNISH AND INSTALL POWER
DISCONNECT SWITCHES W/ THERMAL OVERLOAD FOR
CONDENSING UNITS.
3. CONTRACTOR TO FURNISH AND INSTALL NEOPRENE
VIBRATION ISOLATORS FOR OUTDOOR CONDENSING

UNITS.
4. SYSTEMS TO BE STARTED/COMMISSIONED BY
FACTORY AUTHORIZED PERSONNEL
CONTRACTOR TO INSULATE ALL REFRIGERANT PIPING.
5. PROVIDE SPRING VIBRATION ISOLATORS W/ MIN. 1"
DEFLECTION SIMILAR TO MASON MODEL SLR

6. CONDENSING UNITS INSTALLED ON THE LOWER
LEVEL OF STACKED CONFIGURATIONS (BASED ON
"TYPICAL DOUBLE-STACKED CONDENSING UNIT
DETAIL" ON DRAWING M-504) SHALL BE FITTED
WITH SHN-1 SERIES HOODS.

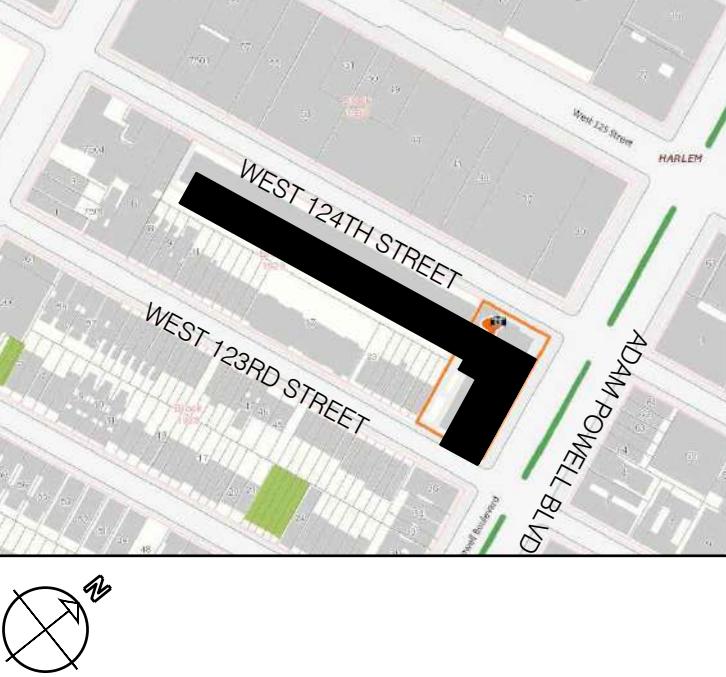
DESIGNATION	ARRANGEMENT	LOCATION	SERVICE	NOMINAL TONS	FAN DATA			COOLING DATA						HEATING DATA			VIBRATION ISOLATION			UNIT ELECTRICAL DATA			OPERATING WEIGHT (LBS)	DIMENSIONS (L"XW"XH")	MANUFACTURER	MODEL	REMARKS					
					ESP (IN. WG)	CFM (MAX)	MOTOR		TOTAL MBH	SENS. MBH	NO. OF ROWS	MAX FINS / IN	FACE AREA (SQ. FT.)	EAT		LAT		TOTAL MBH	NO. OF ROWS	MAX FINS / IN	FACE AREA (SQ. FT.)	EAT	LAT	TYPE	DEFLECTION (IN.)	V/Φ/Hz	FLA	MCA	MOCP			
							WATTS/HP	FLA						DB (°F)	WB (°F)	DB (°F)	WB (°F)															
AC-A	CEILING-CONCEALED DUCTED	SEE PLANS	SEE PLANS	1	0.6	371	-	-	10.5	8.02	-	-	75	62.5	-	-	11.1	-	-	-	70	-	-	-	208/1/60	-	1.2	15	49	28x29x10	MITSUBISHI PEFY-P12NMAU-E3	
AC-B	CEILING-CONCEALED DUCTED	SEE PLANS	SEE PLANS	1.5	0.6	600	-	-	16.8	13.7	-	-	75	62.5	-	-	17.9	-	-	-	70	-	-	-	208/1/60	-	1.56	15	58	35x29x10	MITSUBISHI PEFY-P18NMAU-E3	
AC-C	CEILING-CONCEALED DUCTED	SEE PLANS	SEE PLANS	2	0.6	883	-	-	22.4	19.1	-	-	75	62.5	-	-	24.1	-	-	-	70	-	-	-	208/1/60	-	2.73	15	67	44x29x10	MITSUBISHI PEFY-P24NMAU-E3	
AC-D	CEILING-CONCEALED DUCTED	SEE PLANS	SEE PLANS	3	0.6	1165	-	-	33.6	27.8	-	-	75	62.5	-	-	29.9	-	-	-	70	-	-	-	208/1/60	-	3.32	15	86	56x29x10	MITSUBISHI PEFY-P36NMAU-E3	
AC-E	CEILING-CONCEALED DUCTED	SEE PLANS	SEE PLANS	4	0.6	1412	-	-	44.8	35.5	-	-	75	62.5	-	-	44.7	-	-	-	70	-	-	-	208/1/60	-	3.41	15	86	56x29x10	MITSUBISHI PEFY-P48NMAU-E3	
AC-F	WALL MOUNTED	SEE PLANS	SUPER-HOIST EMR	0.75	-	237	-	-	7.5	5.5	-	-	80	67	-	-	7.4	-	-	-	70	-	-	-	208/1/60	-	0.24	15	25	31x12x10	MITSUBISHI PKFY-P08NLMU-E	
AC-G	CEILING MOUNTED	CELLAR	ELECTRICAL ROOM	3	-	1095	-	-	31.4	24.1	-	-	80	67	-	-	33.1	-	-	-	70	-	-	-	208/1/60	-	0.92	15	66	33x12x33	MITSUBISHI PLFY-EP36NEMU-E	
AC-EMR-1,2	WALL MOUNTED	ELEVATOR MACHINE ROOM	SEE PLANS	2	-	775	56	0.76	27.7	20.8	-	-	80	67	-	-	-	-	-	-	70	-	-	-	208/1/60	-	1	15	37	44x10x13	MITSUBISHI PKA-A30KA7.TH	COOLING ONLY
AC-R-1	WALL MOUNTED	ROOF	SEE PLANS	2	-	775	56	0.76	27.7	20.8	-	-	80	67	-	-	-	-	-	-	70	-	-	-	208/1/60	-	1	15	37	44x10x13	MITSUBISHI PKA-A30KA7.TH	COOLING ONLY

NOTES:
1. CONTRACTOR TO FURNISH AND INSTALL POWER
DISCONNECT SWITCHES W/ THERMAL OVERLOAD.
2. CONTRACTOR TO FURNISH AND INSTALL FILTER
RACK AND FILTER FOR ALL DUCTED FAN COILS
3. PROVIDE DRY CONTACT UNIT FOR EACH FAN
COIL

4. PROVIDE 7-DAY PROGRAMMABLE CONTROLLER
FOR EACH FAN COIL
5. PROVIDE SEPARATE REMOTE TEMPERATURE
SENSOR FOR EACH DUCTED FAN COIL
6. PROVIDE AUXILIARY DRAIN PAN WITH LEAK
DETECTOR FOR ALL DUCTED, FAN COILS
7. PROVIDE ASPEN MINI AQUA CONDENSATE PUMP

MODEL # ASP-MA-230 FOR ALL WALL
MOUNTED FAN COILS, TO BE INSTALLED WITHIN
UNIT ENCLOSURE
8. CONTRACTOR TO FURNISH AND INSTALL
MOTORIZED DAMPERS AT DUCTED FAN COIL'S
OUTSIDE AIR INTAKE DUCT TO OPEN WHEN
ASSOCIATED FAN COIL IS OPERATING

9. SYSTEM



AIR COOLED ROOFTOP AIR CONDITIONING UNIT OR ROOFTOP HEAT PUMP SCHEDULE

DESIGNATION	LOCATION	SERVICE	AMBIENT TEMP. (°F)	SUPPLY FAN DATA					DX DATA		COOLING DATA	HEATING DATA	CONDENSING UNIT DATA	EER FULL LOAD	MIN. EER REQ'D	COP HEAT PUMP	UNIT ELECTRICAL DATA	OPERATING WEIGHT (LBS)	DIMENSION (LWXH)	MANUFACTURER	MODEL	REMARKS																
											COOLING COIL DATA	GAS	COMPRESSOR	AIR-COOLED CONDENSER																								
				CFM	EXT. SP (IN W.G.)	RPM	BHP	MOTOR HP	DRIVE TYPE	REFRIGERANT	SUCTION TEMP (°F)	NOMINAL CAPACITY (TONS)	TOTAL MBH	SENS. MBH	O.A. CFM	MAXIMUM VEL. (FPM)	MAX. AIR P.D. (IN W.P.)	MAX FPI	NO. OF ROWS	FACE VEL. (FPM)	MAXIMUM AIR P.D. (IN. W.C.)	EAT °F DB/WB	LAT °F DB/WB	FACE VEL	INPUT MBH	OUTPUT MBH	INLET PRESS (WG)	QTY	LRA	RLA	CONDENSER FANS	AIRFLOW CFM (EACH)						
RTU-1	HIGH LEVEL ROOF	OUTSIDE AIR	95	4750	1.5	-	-	-	-	R-410A	-	25	315	200	4750	-	-	-	-	95	74	-	540	432	-	-	-	11.7	-	-	460/3/60	55	70	2815	-	AAON	RN-025	-

NOTES:

1. PROVIDE THE FOLLOWING:
 - UL AND ARI CERTIFICATION.
 - COMPRESSOR SOUND ATTENUATION.
 - DISCHARGE TEMPERATURE SENSOR (68°F ADJUSTABLE SETPOINT)
 - COMPRESSOR CYCLE DELAY.

- MODULATING HOT GAS REHEAT AND DISCHARGE HUMIDITY SENSOR FOR HUMIDITY CONTROL TO 50% RELATIVE HUMIDITY.
 - HOT GAS BYPASS ON LEAD COMPRESSOR.
 - 24" HIGH THYBAR VIBRO-CURB II INSULATED ROOF CURB WITH 1" DEFLECTION VIBRATION ISOLATORS.
 - DOWNFLOW WITH CURB SIDEWALL DISCHARGE. UNIT MOUNTED DISCONNECT SWITCH.
 - THROWAWAY FILTERS.
 - 5 YR. COMPRESSOR WARRANTY.
 - 10 YR. HEAT EXCHANGER WARRANTY.
 - PREMIUM EFFICIENCY FAN MOTOR.
 - DOUBLE WALL CASING W/1.5 LB INSULATION.
 - LIGHT AND RECEPTACLE IN FAN SECTION.
 - LOW TEMPERATURE AMBIENT CONTROL DOWN TO 55°F.
 - 100% OUTSIDE AIR HOOD WITH BIRD SCREEN AND MOTORIZED DAMPER.
 - STAINLESS STEEL HEAT EXCHANGER.
 - FULL MODULATION HEATING CONTROL.
 - DDC MICROPROCESSOR CONTROLS WITH UNIT MOUNTED CONTROL PANEL W/ AUXILIARY CONTACTS FOR REMOTE COMMON ALARM. SEE SPECIFICATION FOR CONTROL SEQUENCE.

ENERGY RECOVERY UNIT SCHEDULE

TES:
PROVIDE 15KW ELECTRIC HEATER
PROVIDE FACTORY VFD OPTION

DIFFUSER, GRILLE & REGISTER SCHEDULE

APPLICATION	CFM	NECK SIZE	MODEL	REMARKS BASED ON TITUS
SUPPLY/RETURN	51 - 80 CFM/LF (RET: 81 - 140)	1 SLOT, 1.5" WIDTH	FL-15	-
SUPPLY	SEE PLAN	SEE PLAN	300RL	WALL MOUNTED
EXHAUST	SEE PLAN	SEE PLAN	355RL	-
RETURN/TRANSFER	SEE PLAN	SEE PLAN	355RL	WALL MOUTED, BOH AREAS ONLY
SUPPLY/RETURN	SEE PLAN	SEE PLAN	OMNI	24x24 FACE

NOTES:

1. FURNISH AND INSTALL DIFFUSERS WITH EQUALIZING GRIDS AND OPPOSED BLADE DAMPERS.
2. MECHANICAL CONTRACTOR TO COORDINATE FRAME TYPES WITH CEILING CONSTRUCTION.
3. MECHANICAL CONTRACTOR TO MATCH ALL SUPPLY/RETURN REGISTER SIZES TO BRANCH DUCT SIZES UNLESS OTHERWISE INDICATED ON PLAN.
4. FINISH FOR DIFFUSERS, REGISTERS, GRILLES SHALL MATCH COLOR SAMPLE AS APPROVED BY THE ARCHITECT.
5. PROVIDE CORD OPERATED DAMPERS AT ALL VOLUME DAMPERS INSTALLED ABOVE NON ACCESSIBLE CEILINGS. (SIMILAR TO OB6 OR OB7).
6. RETURN/EXHAUST GRILLE SHALL BE ALUMINUM WHEN USED IN HIGH HUMIDITY AREAS.
7. PROVIDE BLANK OFF PLATE(S) WHERE SHOWN IN THE DRAWINGS TO ALLOW FOR 2 OR 3 WAY DISCHARGE PATTERN.
8. DIFFUSERS (CEILING, LINEAR, ETC.) LOCATED IN SHEETROCK AND CONCEALED SPLINE CEILING TYPES SHALL BE PROVIDED WITH A FRAME TYPE TO ALLOW FOR SURFACE MOUNTING.
9. PROVIDE LIGHT SHIELDS ON ALL PLENUM RETURN REGISTERS/LINEARS TO CONCEAL CEILING PLENUM.

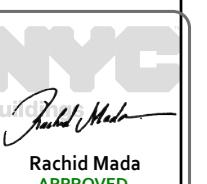
ES:
FURNISH AND INSTALL DIFFUSERS WITH EQUALIZING GRIDS AND OPPOSED BLADE DAMPERS.
MECHANICAL CONTRACTOR TO COORDINATE FRAME TYPES WITH CEILING CONSTRUCTION.
MECHANICAL CONTRACTOR TO MATCH ALL SUPPLY/RETURN REGISTER SIZES TO BRANCH DUCT SIZES
UNLESS OTHERWISE INDICATED ON PLAN.
FINISH FOR DIFFUSERS, REGISTERS, GRILLES SHALL MATCH COLOR SAMPLE AS APPROVED BY THE
ARCHITECT.
PROVIDE CORD OPERATED DAMPERS AT ALL VOLUME DAMPERS INSTALLED ABOVE NON ACCESSIBLE
CEILINGS. (SIMILAR TO OB6 OR OB7).
RETURN/EXHAUST GRILLE SHALL BE ALUMINUM WHEN USED IN HIGH HUMIDITY AREAS.
PROVIDE BLANK OFF PLATE(S) WHERE SHOWN IN THE DRAWINGS TO ALLOW FOR 2 OR 3 WAY
DISCHARGE PATTERN.
DIFFUSERS (CEILING, LINEAR, ETC.) LOCATED IN SHEETROCK AND CONCEALED SPLINE CEILING TYPES
SHALL BE PROVIDED WITH A FRAME TYPE TO ALLOW FOR SURFACE MOUNTING.
PROVIDE LIGHT SHIELDS ON ALL PLENUM RETURN REGISTERS/LINEARS TO CONCEAL CEILING PLENUM.

BRANCH SELECTOR BOX SCHEDULE (VRF)

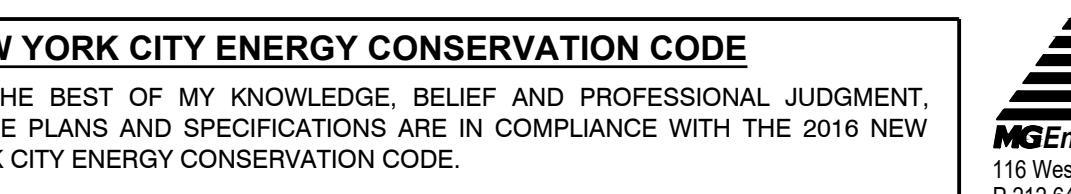
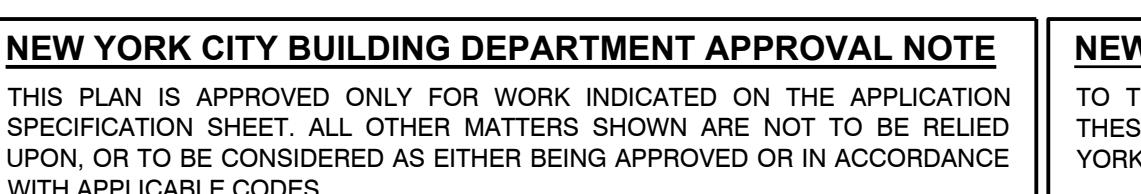
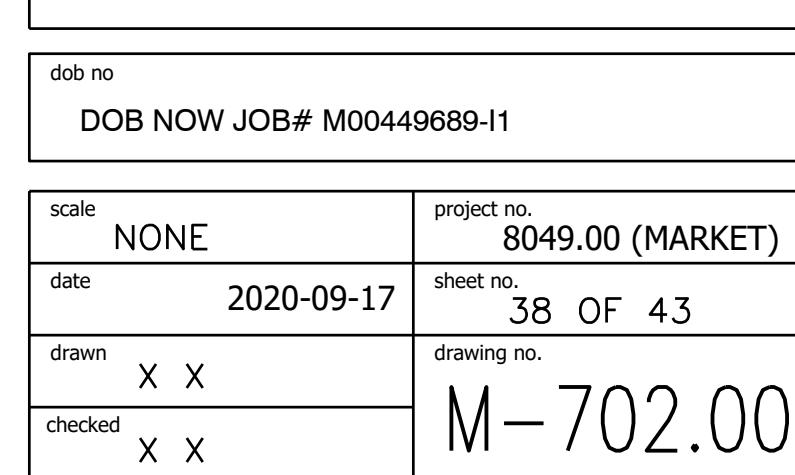
DESIGNATION	LOCATION	SERVICE	NUMBER OF PORTS	ELECTRICAL INFO			VIBRATION ISOLATION		OPERATING WEIGHT (LBS)	DIMENSIONS (L"xW"xH")	MANUFACTURER	MODEL	REMARKS
				V/Ø/Hz	MCA	MOP	TYPE	DEFLECTION(IN.)					
BSB-C-1	CELLAR	ACCU-C-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-C-2	CELLAR	ACCU-C-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-01-1	1ST FLOOR	ACCU-1-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-01-2	1ST FLOOR	ACCU-1-2	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-02-1	2ND FLOOR	ACCU-2-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-02-2	2ND FLOOR	ACCU-2-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-03-1	3RD FLOOR	ACCU-3-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-03-2	3RD FLOOR	ACCU-3-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-04-1	4TH FLOOR	ACCU-4-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-04-2	4TH FLOOR	ACCU-4-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-05-1	5TH FLOOR	ACCU-5-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-05-2	5TH FLOOR	ACCU-5-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-06-1	6TH FLOOR	ACCU-6-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-06-2	6TH FLOOR	ACCU-6-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-07-1	7TH FLOOR	ACCU-7-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-07-2	7TH FLOOR	ACCU-7-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-08-1	8TH FLOOR	ACCU-8-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-08-2	8TH FLOOR	ACCU-8-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-09-1	9TH FLOOR	ACCU-9-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-09-2	9TH FLOOR	ACCU-9-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-10-1	10TH FLOOR	ACCU-10-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-10-2	10TH FLOOR	ACCU-10-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-11-1	11TH FLOOR	ACCU-11-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-11-2	11TH FLOOR	ACCU-11-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-12-1	12TH FLOOR	ACCU-12-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-12-2	12TH FLOOR	ACCU-12-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-13-1	13TH FLOOR	ACCU-13-1	8	208/1/60	0.74	15	NEOPRENE	1/4"	73	24x16x10	MITSUBISHI	CMB-P108NU-J1	-
BSB-13-2	13TH FLOOR	ACCU-13-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-14-1	14TH FLOOR	ACCU-14-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-14-2	14TH FLOOR	ACCU-14-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-15-1	15TH FLOOR	ACCU-15-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-15-2	15TH FLOOR	ACCU-15-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-16-1	16TH FLOOR	ACCU-16-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-16-2	16TH FLOOR	ACCU-16-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-17-1	17TH FLOOR	ACCU-17-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-17-2	17TH FLOOR	ACCU-17-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-18-1	18TH FLOOR	ACCU-18-1	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-
BSB-18-2	18TH FLOOR	ACCU-18-2	6	208/1/60	0.55	15	NEOPRENE	1/4"	64	24x16x10	MITSUBISHI	CMB-P106NU-J1	-

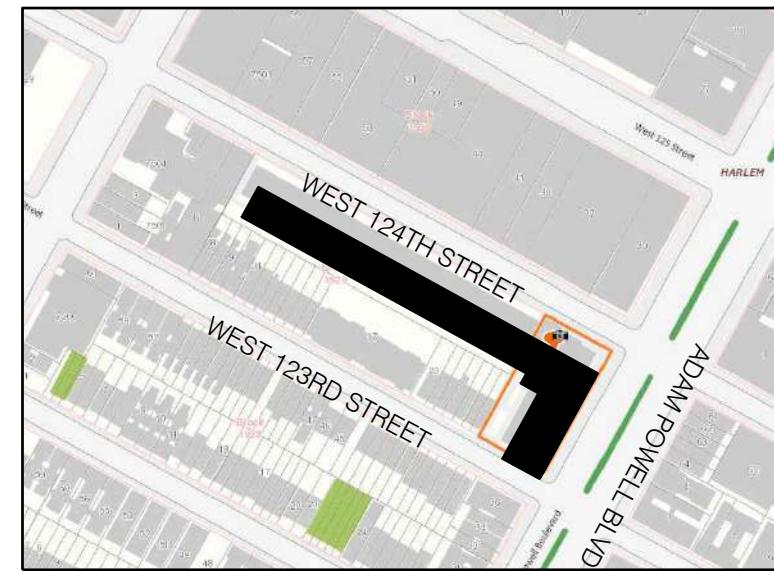
NOTES:

1. PROVIDE MANUFACTURER WARRANTY ON ALL PARTS.
2. PROVIDE MANUFACTURER'S STANDARD BALL VALVES, 700 PSIG WORKING PRESSURE, FULL PORT, R-410A RATED.
3. PROVIDE INSULATED REFRIGERATION BALL VALVES WITH SCHRADER VALVE - (1) 3/8" AND (1) 5/8" SIZE.
4. BRANCH SELECTOR BOXES SHALL BE INSTALLED ABOVE AT LEAST ONE (1) LAYER OF GYPSUM BOARD. COORDINATE WITH ARCHITECTURAL CEILING CONSTRUCTION DETAILS.
5. ACCESS DOORS SHALL BE KARP MODEL KATR AS STANDARD WITH GYPSUM INFILL PAN AND OPTION FOR MAGNETIC/NEOPRENE GASKET.
6. VIBRATION ISOLATION BASIS OF DESIGN SHALL BE MASON INDUSTRIES MODEL HD SERIES.



**MECHANICAL
SCHEDULES**





BLOCK: 1929 LOT(s): 57

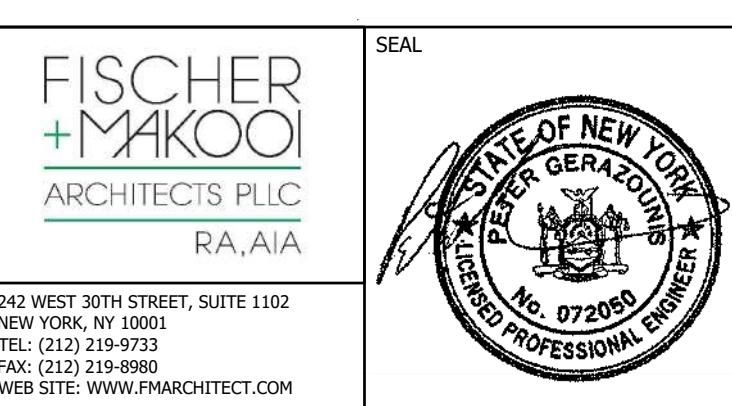
01-27-22	REISSUED FOR FILING	
01-27-21	REISSUED FOR FILING	
01-17-20	ISSUED FOR MEP PROGRESS	
10-23-19	ISSUED FOR MEP PROGRESS	
08-29-19	ISSUED FOR PRICING	
08-06-19	100% MEP DD	
03-27-19	ISSUED FOR 25% CD	
06-04-18	ISSUED FOR FILING	
issue	rev	date
		description

ISSUES/REVISONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
CONTROLS DIAGRAM
SHEET 1 OF 5

dob no
DOB NOW JOB# M00449689-I1

scale	NONE	project no.	8049.00 (MARKET)
date	2020-09-17	sheet no.	39 OF 43
drawn	X X	drawing no.	
checked	X X		M-801.00

CONTROL ABBREVIATIONS

AF - AIR FLOW	
AI - ANALOG INPUT	
AO - ANALOG OUTPUT	
BF - AUTOMATIC BUTTERFLY VALVE	
BMS - BUILDING MANAGEMENT SYSTEM	
BTU - BRITISH THERMAL UNIT	
CW - CONDENSER WATER	
CWR - CONDENSER WATER RETURN	
CWS - CONDENSER WATER SUPPLY	
CV - CONTROL VALVE	
DI - DIGITAL INPUT	
DO - DIGITAL OUTPUT	
ES - END SWITCH	
ES-C - END SWITCH CLOSED	
ES-O - END SWITCH OPEN	
F - FLOW	
HW - HARDWIRED	
LKD - LEAK DETECTOR	
M - MOTORIZED	
MD - MOTORIZED DAMPER	
OA - OUTSIDE AIR	
S/S - START/STOP	
STS - STATUS	
TT - TEMPERATURE TRANSMITTER	
VFD - VARIABLE FREQUENCY DRIVE	
AFMS - AIR FLOW MEASURING STATION	
C/C - COOLING COIL	
CO2 - CARBON DIOXIDE	
CO - CARBON MONOXIDE	
COND - CONDENSATE	
DP - DIFFERENTIAL PRESSURE	
EA - EXHAUST AIR	
HT - HUMIDITY TRANSMITTER	
OA - OUTSIDE AIR	
RA - RETURN AIR	
SA - SUPPLY AIR	
SC - SPEED CONTROL	
SD - SMOKE DETECTOR	
SP - STATIC PRESSURE	
SPS - STATIC PRESSURE SAFETY	
ST - STARTER	
FAS - FIRE ALARM SYSTEM	
FSD - FIRE/SMOKE DAMPER	
FZ - FREEZESTAT	
HWR - HOT WATER RETURN	
HWS - HOT WATER SUPPLY	
STPT - SETPOINT OVERRIDE	
OVRD - OCCUPANCY OVERRIDE	
RHC - REHEAT COIL	
WS - WINDOW SWITCH	

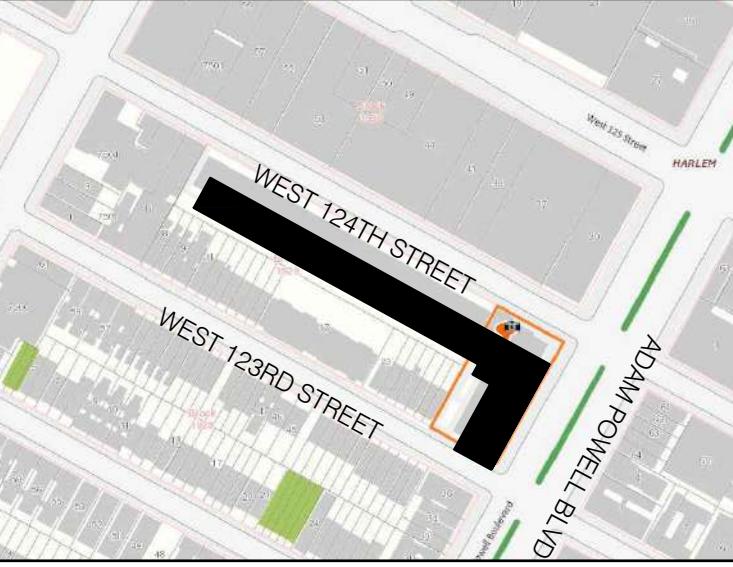
CONTROL SYMBOL LIST

	DUCT INSERTION TEMPERATURE SENSOR
	AVERAGING TEMPERATURE SENSOR
	DUCT HUMIDITY SENSOR
	DUCT CARBON DIOXIDE SENSOR
	SPACE TEMPERATURE SENSOR
	PIPE INSERTION TEMPERATURE SENSOR
	STRAP-ON FLOW METER
	INSERTION FLOW METER
	VORTEX FLOW METER
	DIFFERENTIAL PRESSURE TRANSMITTER
	OUTSIDE AIR FLOW MEASURING STATION
	AIR FLOW MEASURING STATION
	STATIC PRESSURE SENSOR/SWITCH
	FREEZESTAT
	SMOKE DETECTOR
	FLOW SWITCH
	DAMPER END SWITCH
	CURRENT SWITCH
	CONDENSATE SENSOR
	MOTORIZED DAMPER W/ ACTUATOR
	VAV BOX DAMPER W/ ACTUATOR
	GLOBE VALVE
	BALL VALVE

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C. we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



BLOCK: 1929 LOT(s): 57

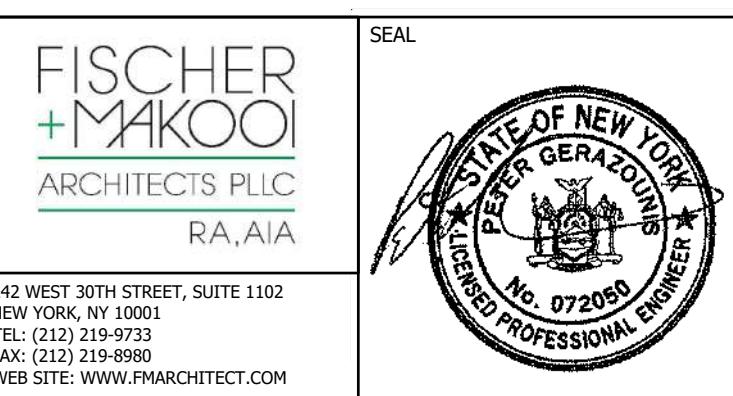
		01-27-22 REISSUED FOR FILING
		01-27-21 REISSUED FOR FILING
		01-17-20 ISSUED FOR MEP PROGRESS
		10-23-19 ISSUED FOR MEP PROGRESS
		08-29-19 ISSUED FOR PRICING
		08-06-19 100% MEP DD
		03-27-19 ISSUED FOR 25% CD
		06-04-18 ISSUED FOR FILING
issue	rev	date
		description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

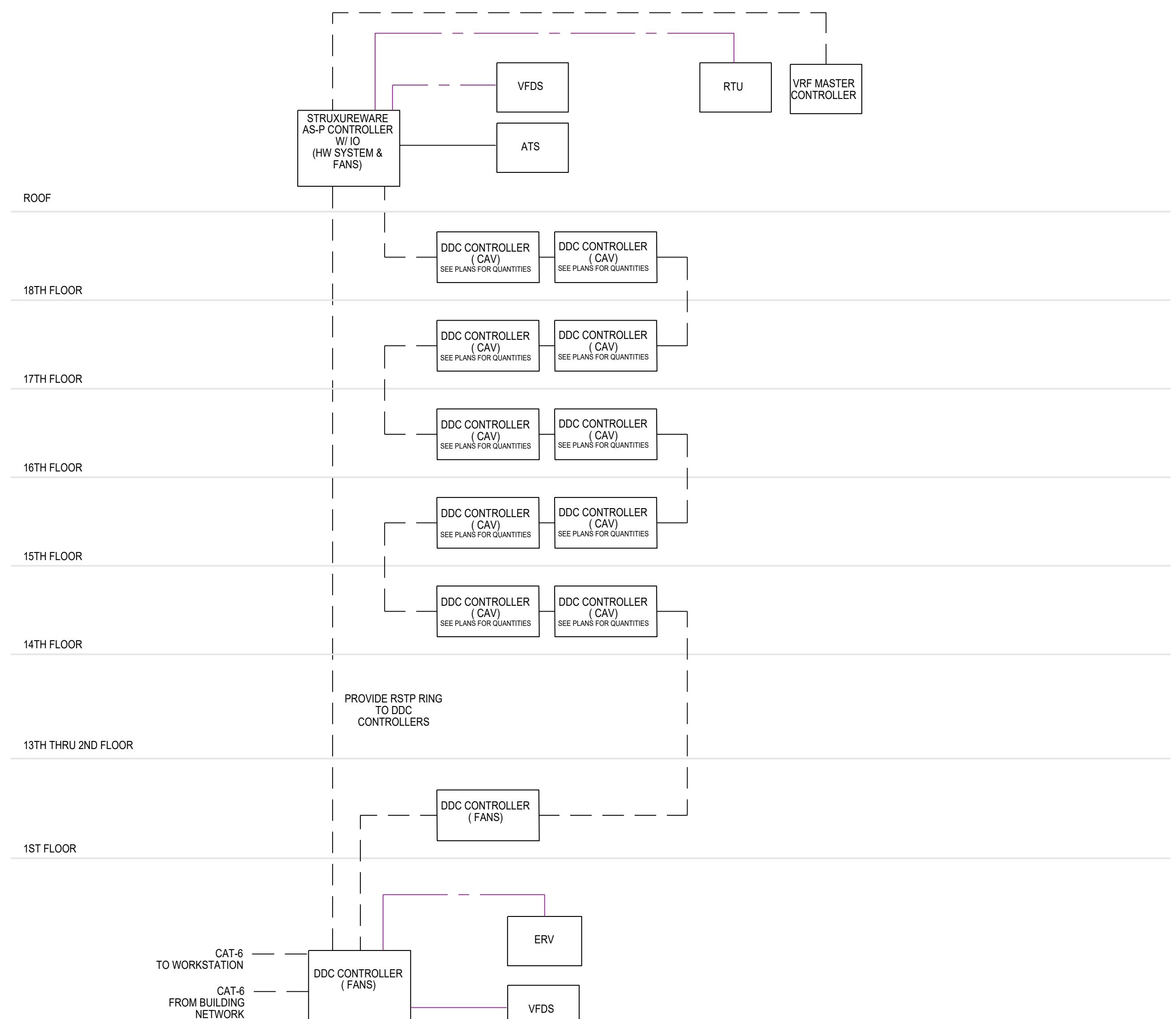
CLIENT:
[Redacted]



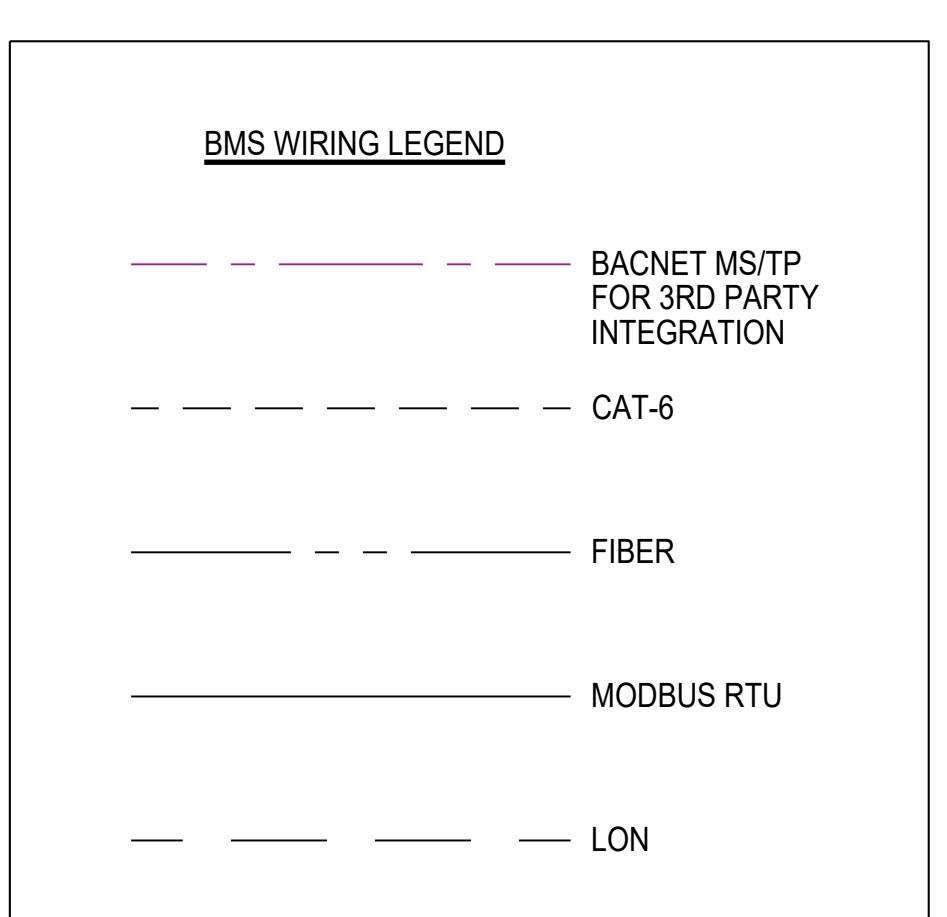
project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL CONTROLS DIAGRAM SHEET 2 OF 5

scale NONE project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 40 OF 43
drawn X X drawing no.
checked X X M-802.00



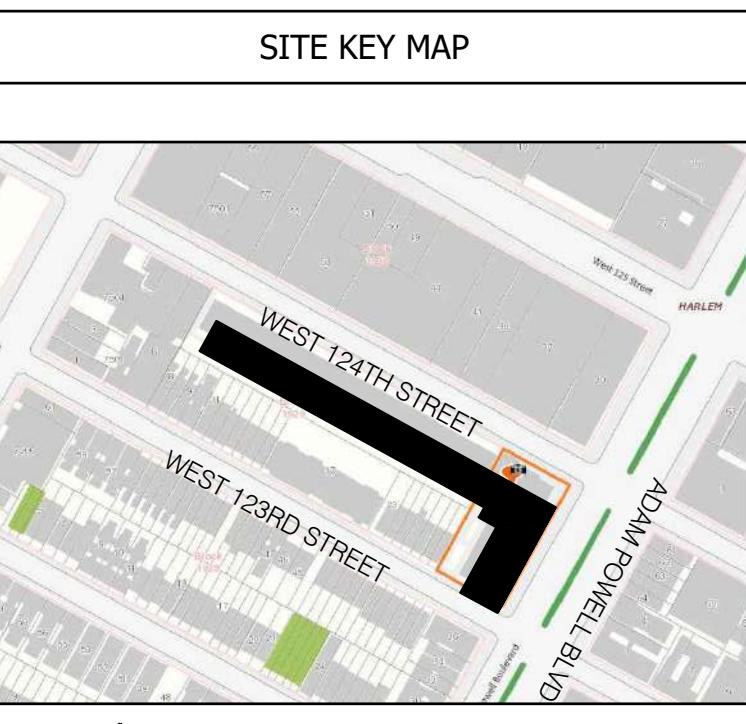
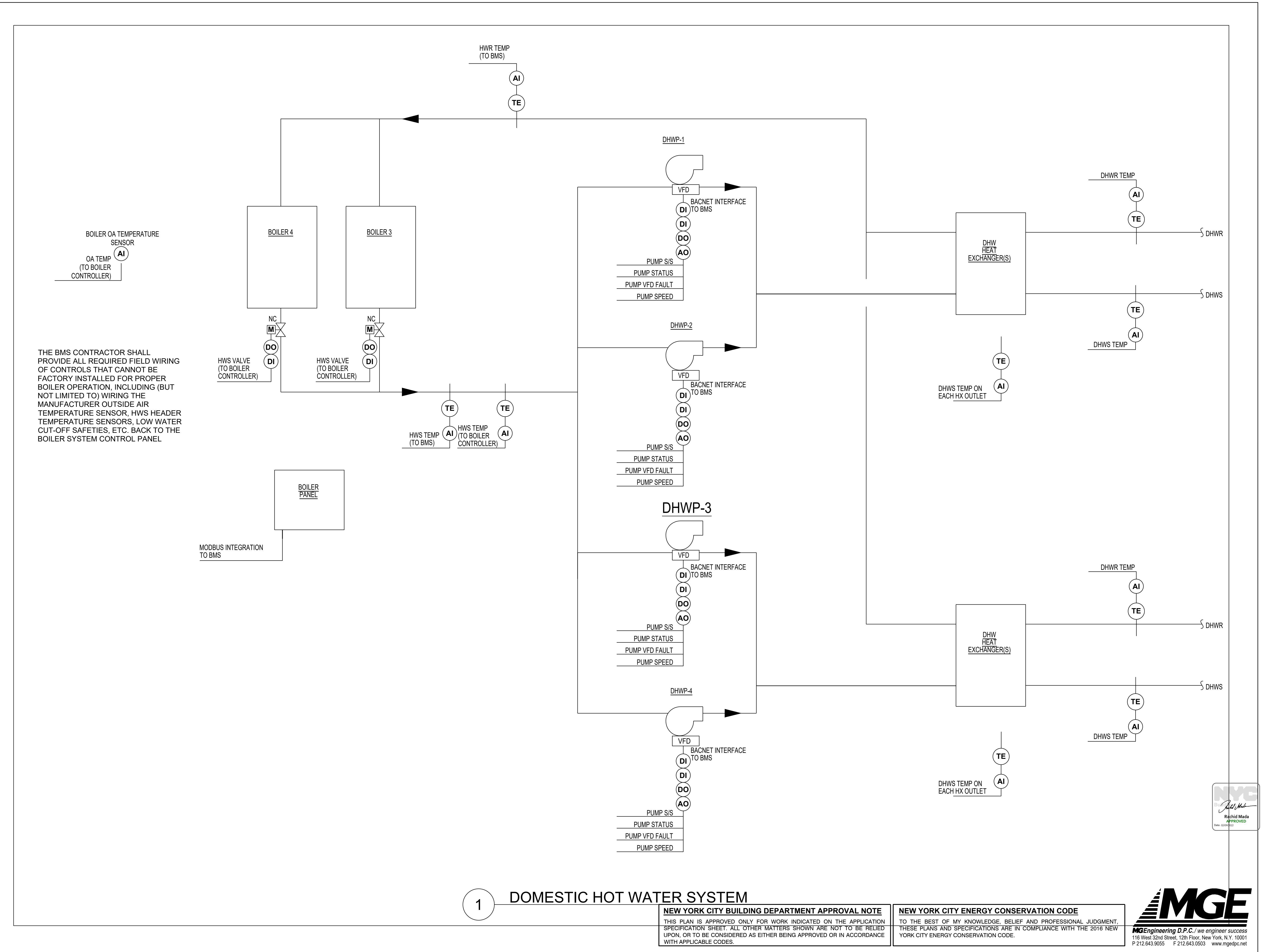
NETWORK ARCHITECTURE SCHEMATIC
(NOT TO SCALE)



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, N.Y. 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



SITE KEY MAP

~~(X)~~ BLOCK: 1929 LOT(s): 57

MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212 643 0055 f 212 643 0503

DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.481.6108



DENTAL DEVELOPMENT
124TH STREET, NY 10027

**MECHANICAL
CONTROLS DIAGRAM**

SHEET 3 OF 5

# M00449689-l1	
	project no. 8049.00 (MARKET)
-09-17	sheet no. 41 OF 43
	drawing no.
	M-803.00

DOMESTIC HOT WATER SYSTEM

1

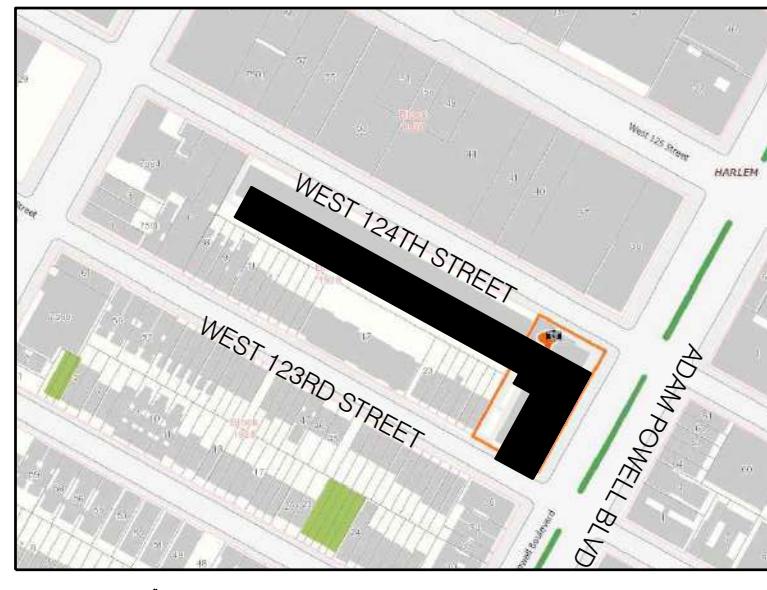
NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION
SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED
UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE
WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW
YORK CITY ENERGY CONSERVATION CODE.

The logo for MGE Engineering D.P.C. features a large, bold, black 'MGE' monogram. To the left of the 'M', there is a graphic element consisting of a triangle with horizontal hatching and three thick horizontal bars below it. Below the monogram, the text 'MGEEngineering D.P.C./ we engineer success' is written in a smaller, italicized, black font.



BLOCK: 1929 LOT(s): 57

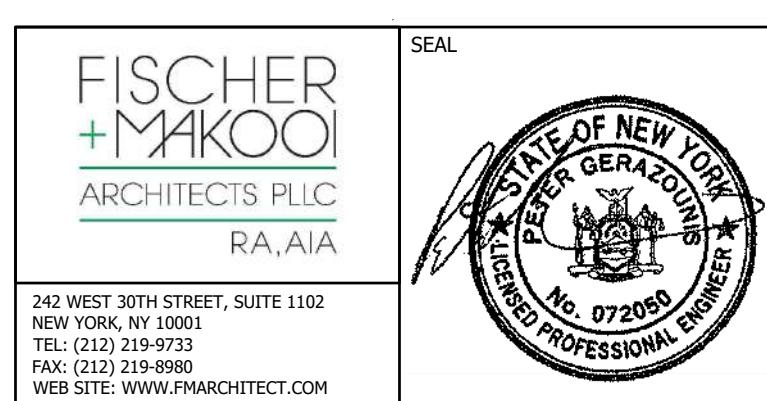
01-27-22	REISSUED FOR FILING		
01-27-21	REISSUED FOR FILING		
01-17-20	ISSUED FOR MEP PROGRESS		
10-23-19	ISSUED FOR MEP PROGRESS		
08-29-19	ISSUED FOR PRICING		
08-06-19	100% MEP DD		
03-27-19	ISSUED FOR 25% CD		
06-04-18	ISSUED FOR FILING		
issue	rev	date	description

ISSUES/REVISONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

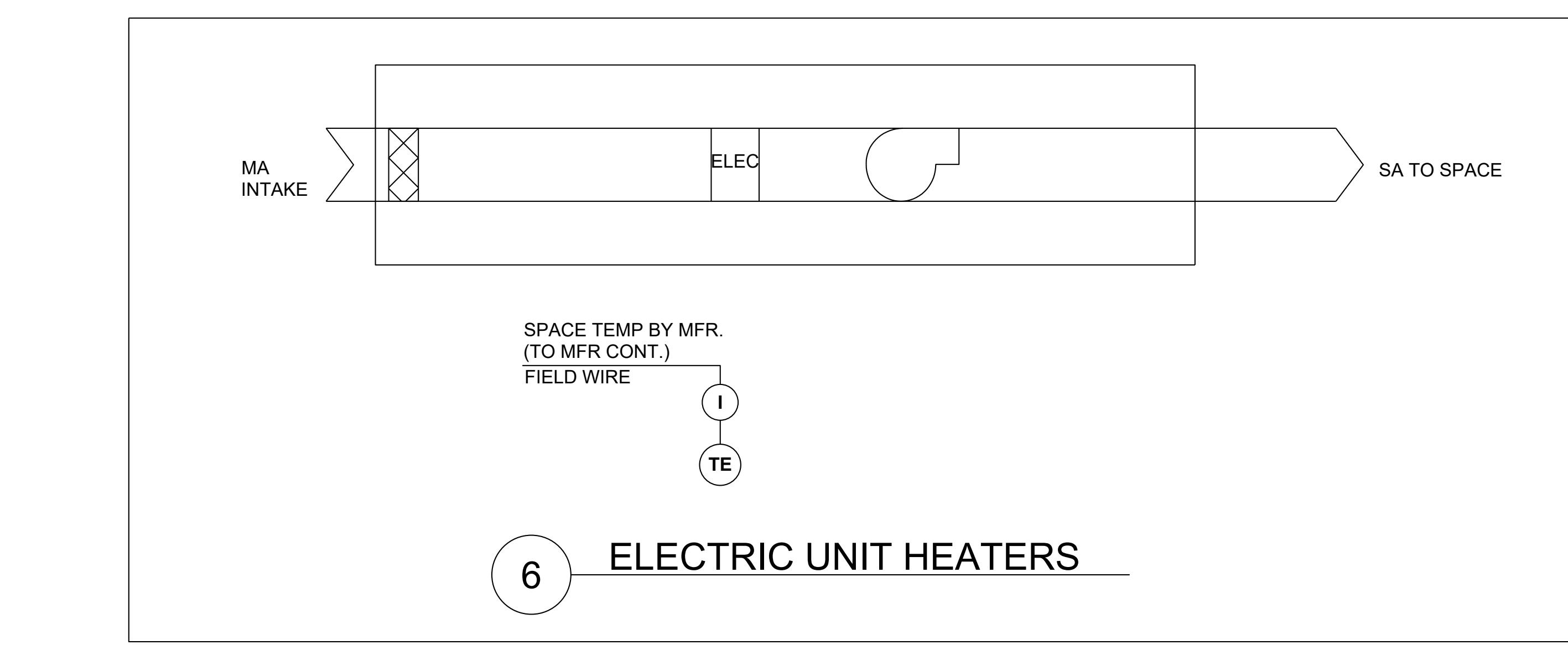
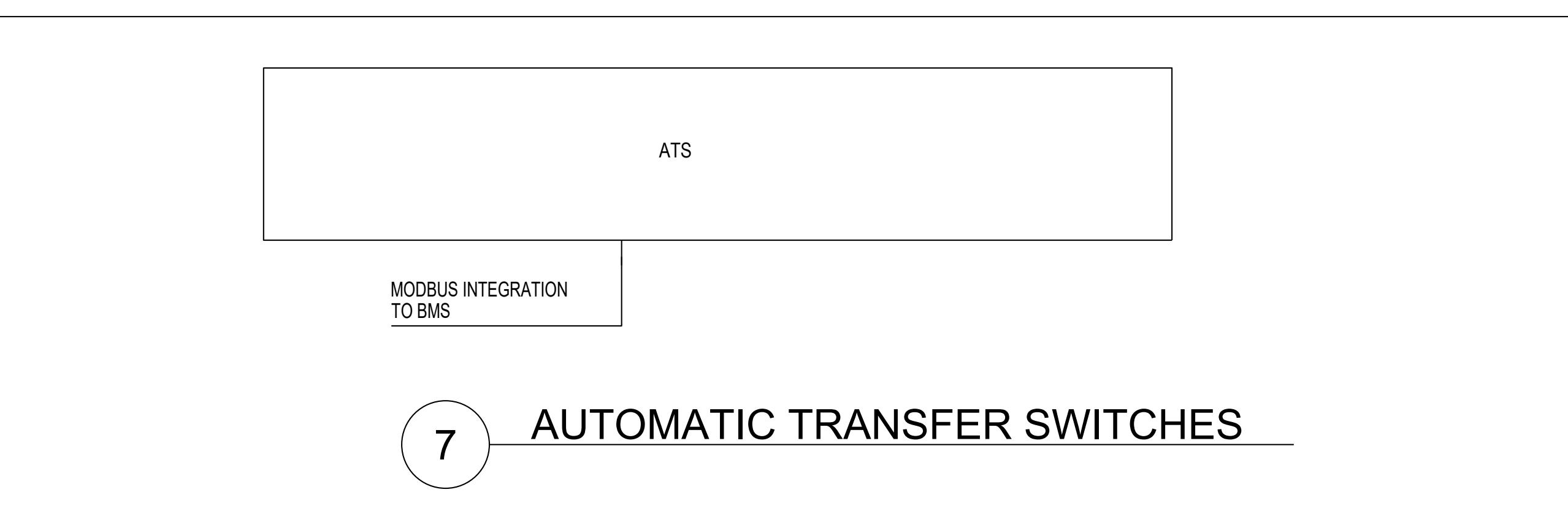
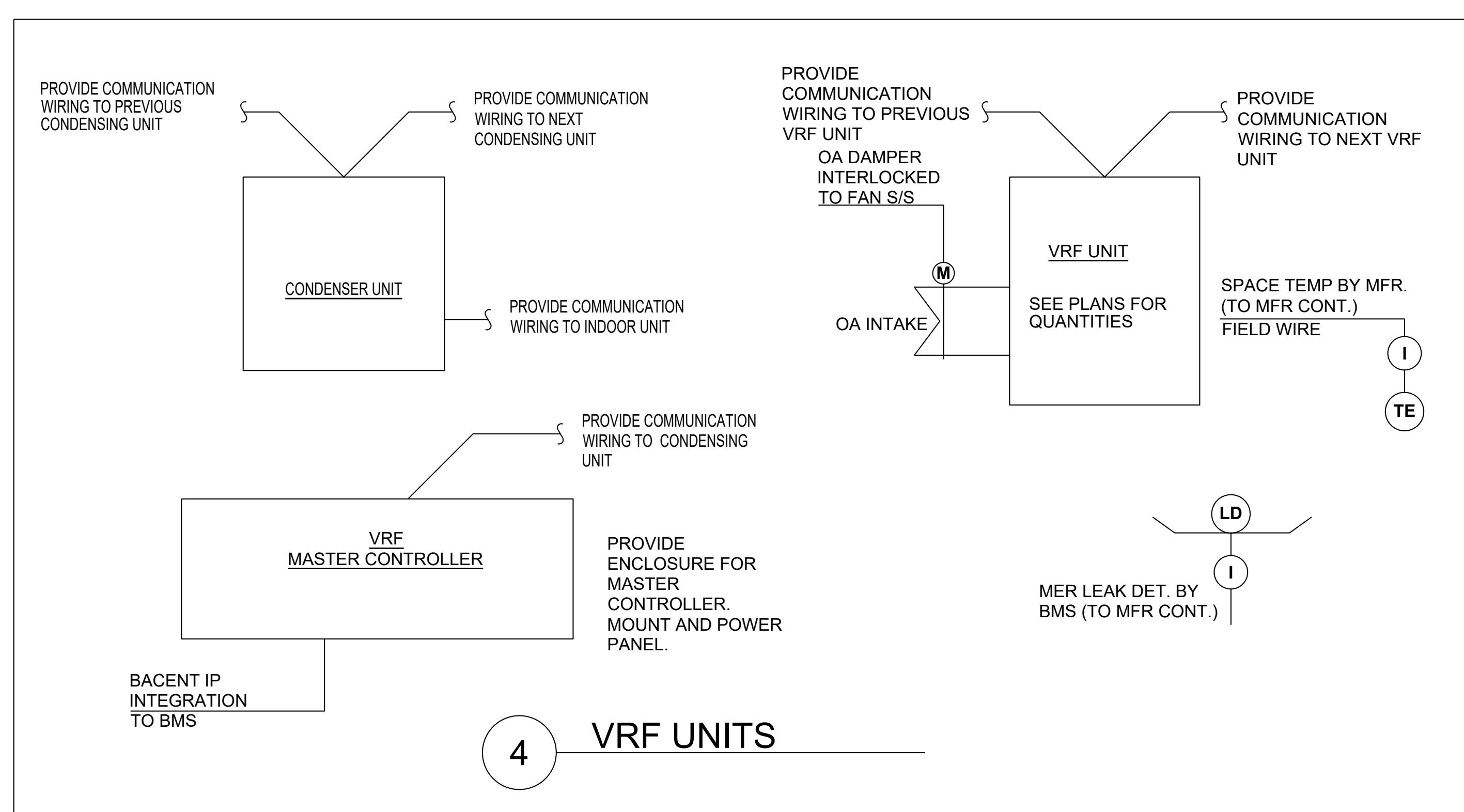
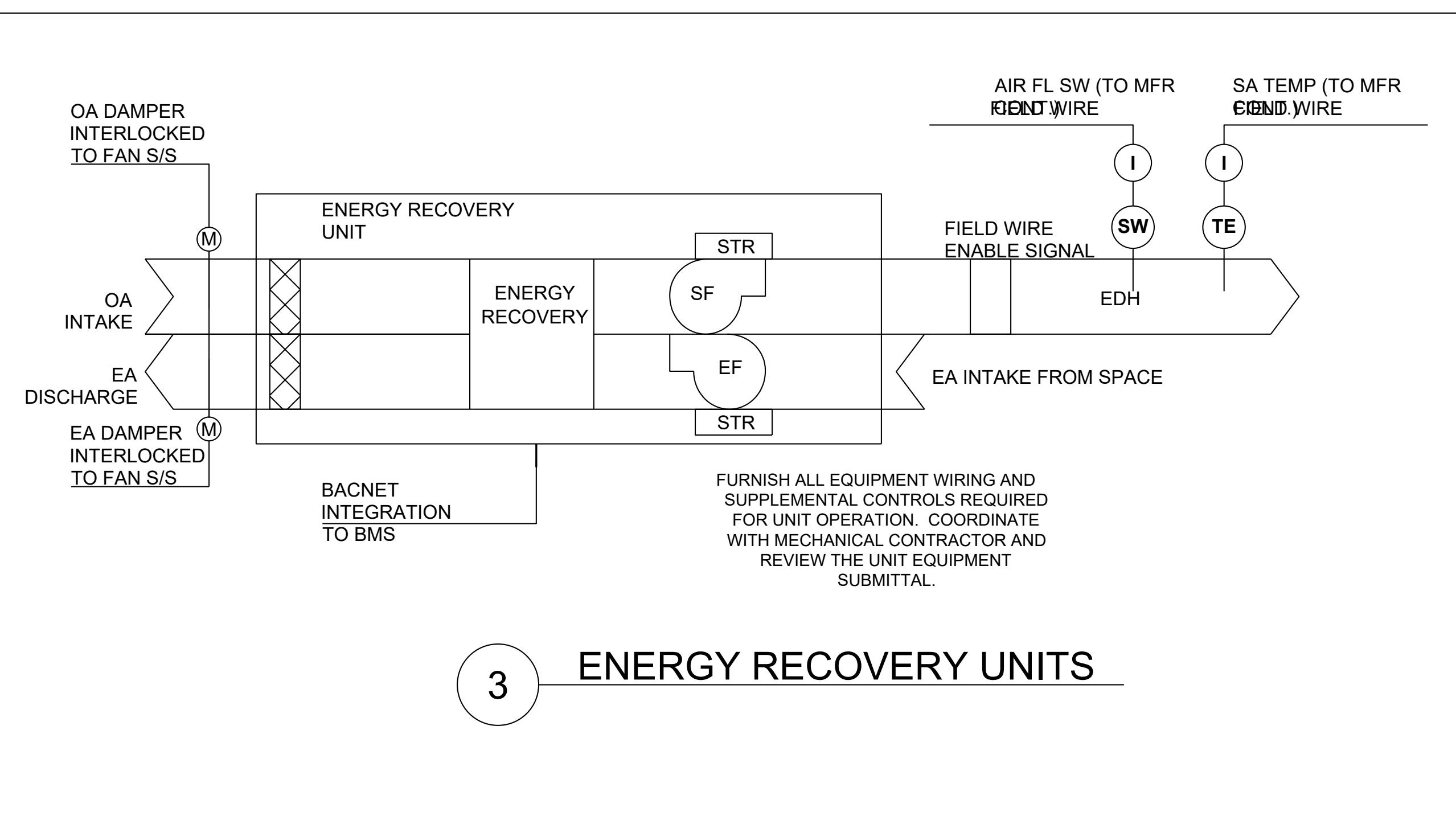
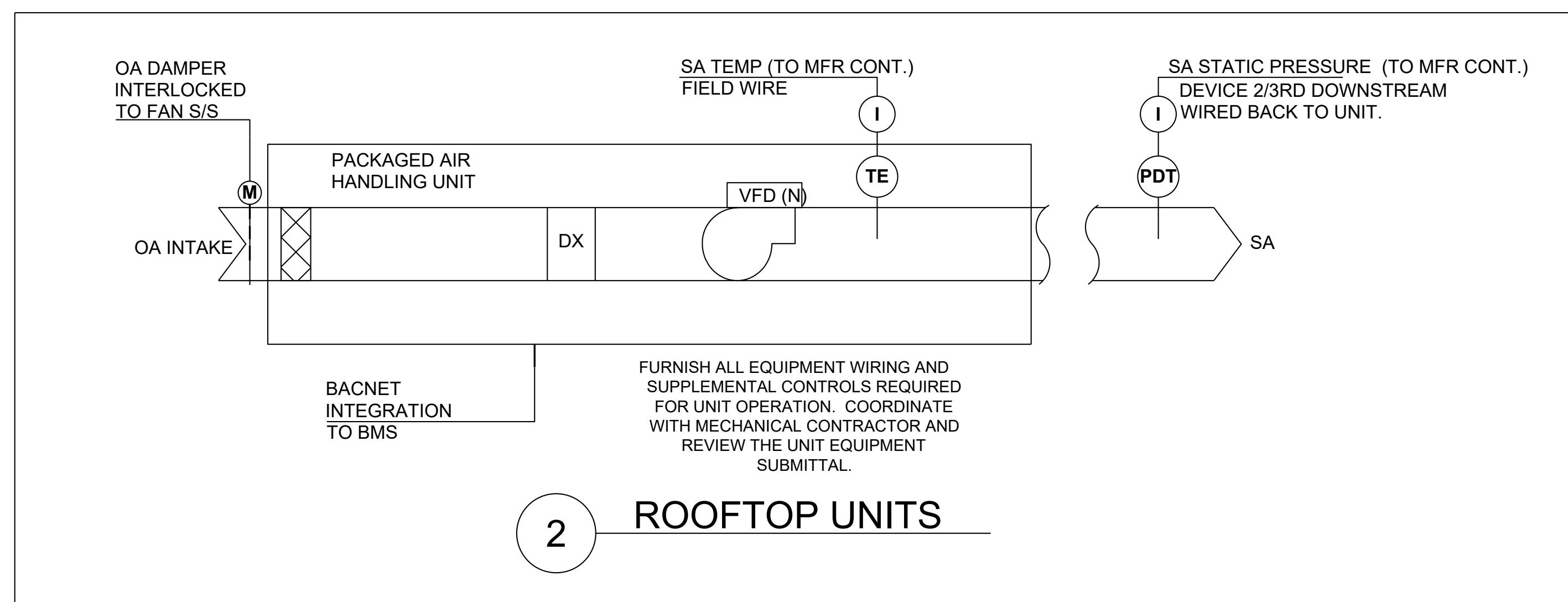
CLIENT:
[Redacted]



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL
CONTROLS DIAGRAM
SHEET 4 OF 5

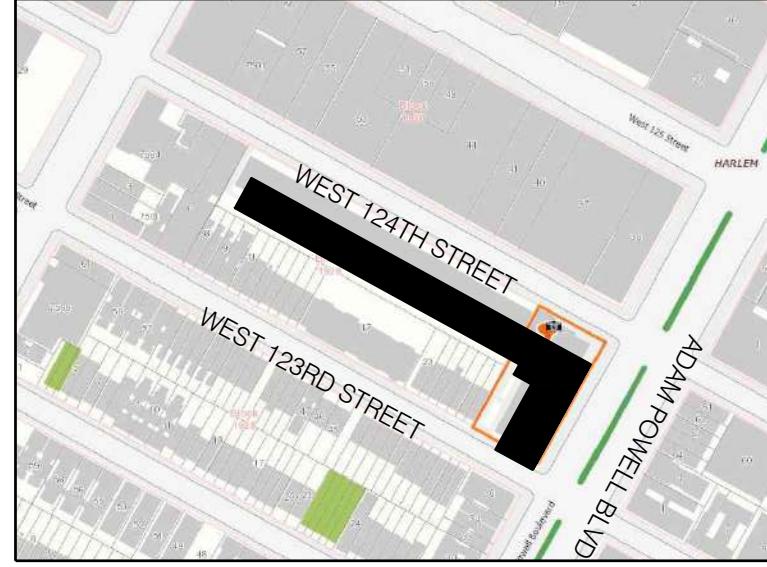
DOB NOW JOB# M00449689-I1
scale NONE project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 42 OF 43
drawn X X drawing no.
checked X X M-804.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MG Engineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net



BLOCK: 1929 LOT(s): 57

01-27-22 REISSUED FOR FILING

01-27-21 REISSUED FOR FILING

01-17-20 ISSUED FOR MEP PROGRESS

10-23-19 ISSUED FOR MEP PROGRESS

08-29-19 ISSUED FOR PRICING

08-06-19 100% MEP DD

03-27-19 ISSUED FOR 25% CD

06-04-18 ISSUED FOR FILING

issue rev date description

ISSUES/REVISIONS

MEP ENGINEER:
MG ENGINEERING D.P.C.
116 West 32nd Street New York, NY 10001
p 212.643.9055 f 212.643.0503

STRUCTURAL ENGINEER:
DeSimone Consulting Engineers
140 Broadway, 25th Floor
New York, NY 10005
T. 212.532.2211
F. 212.461.6108

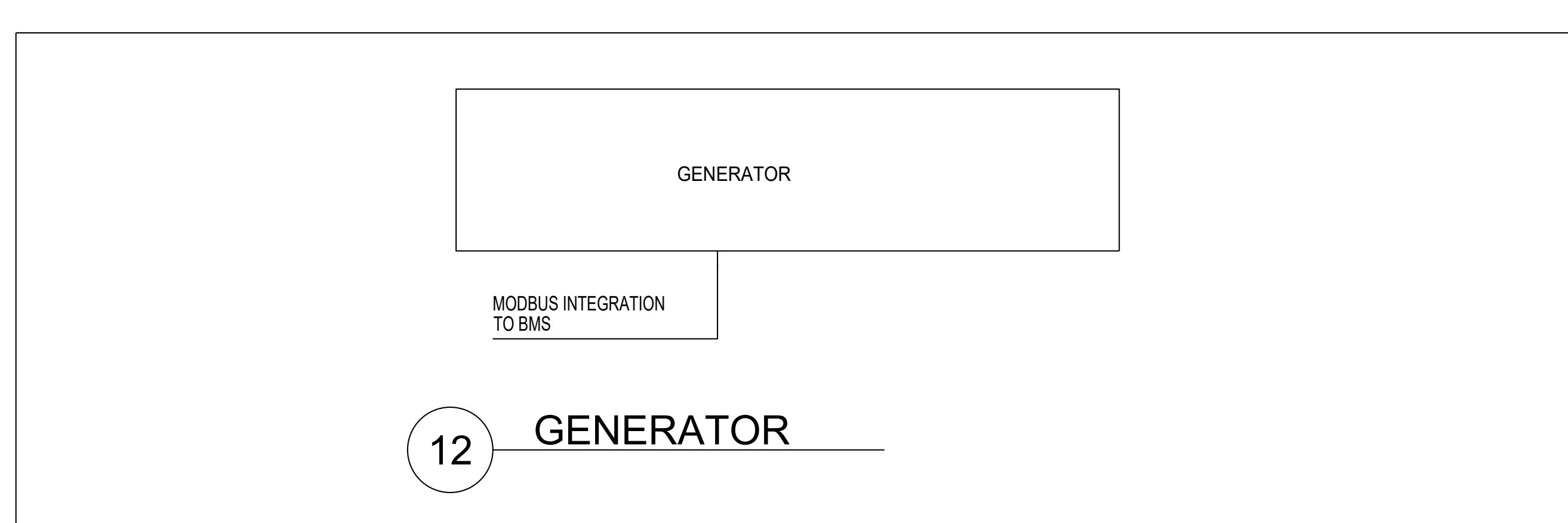
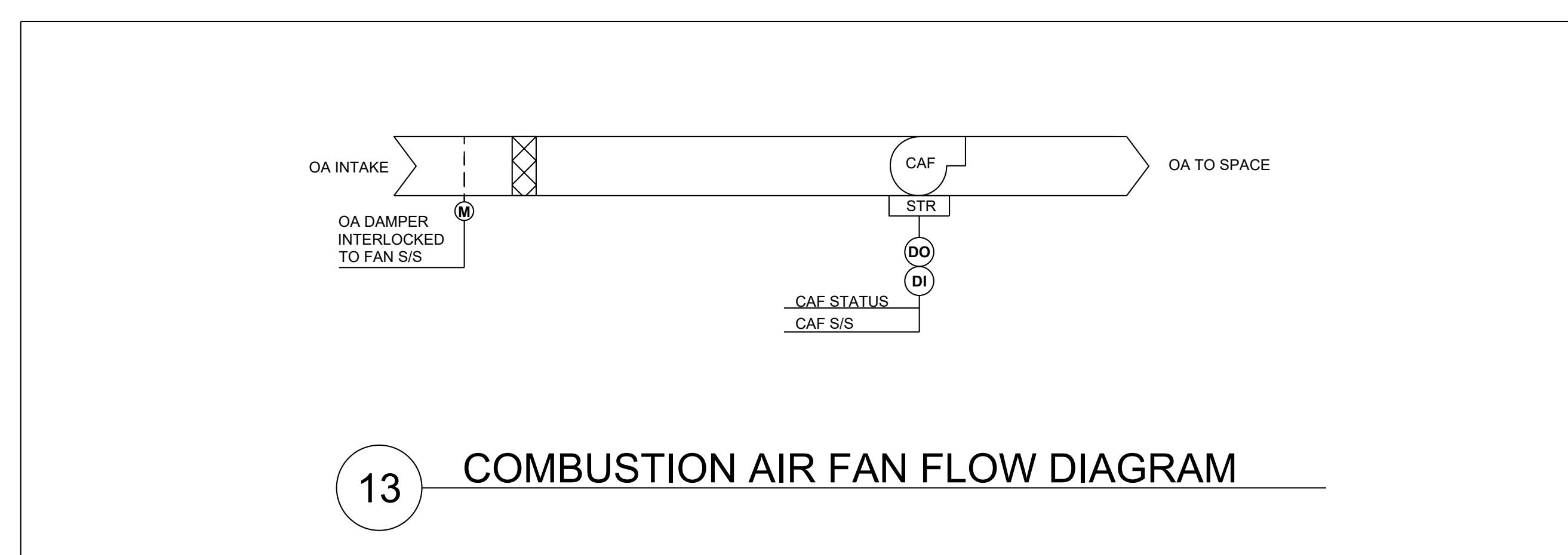
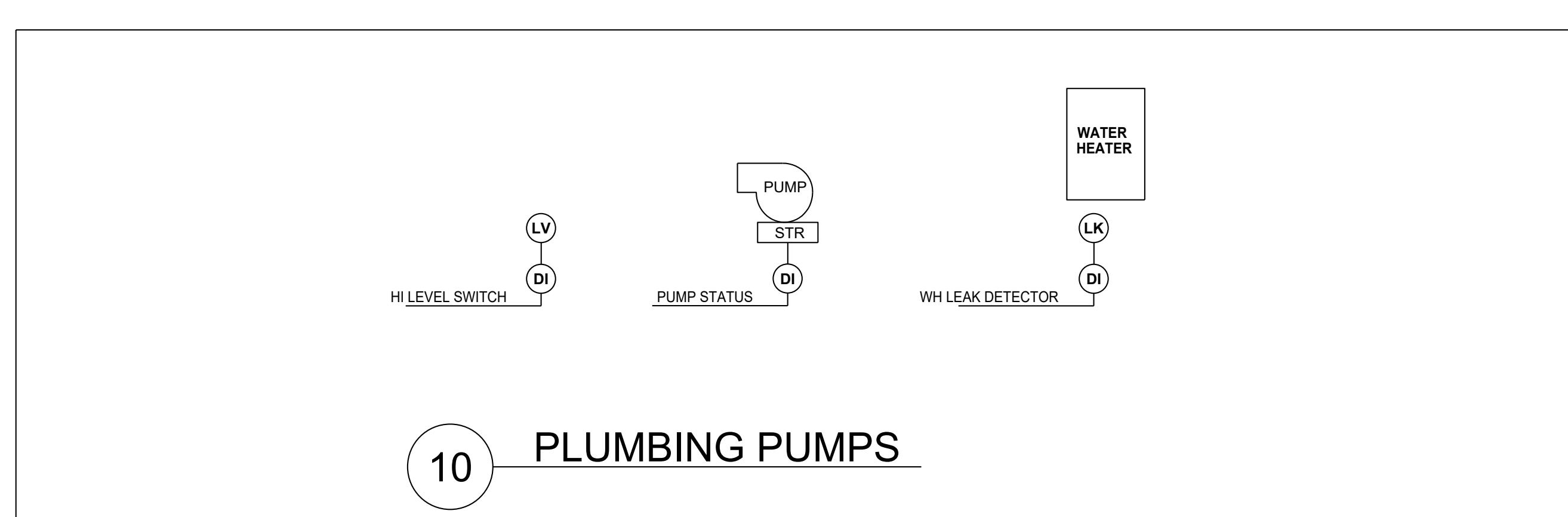
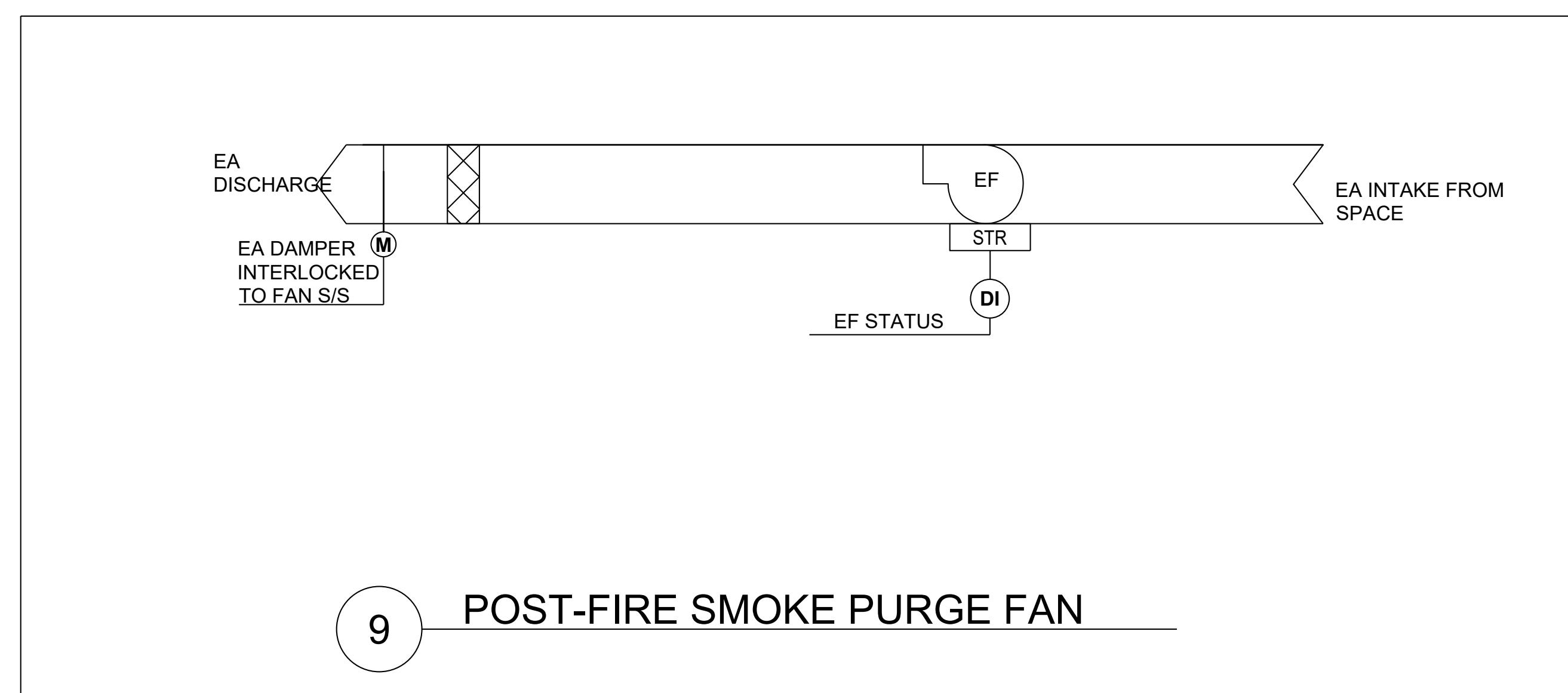
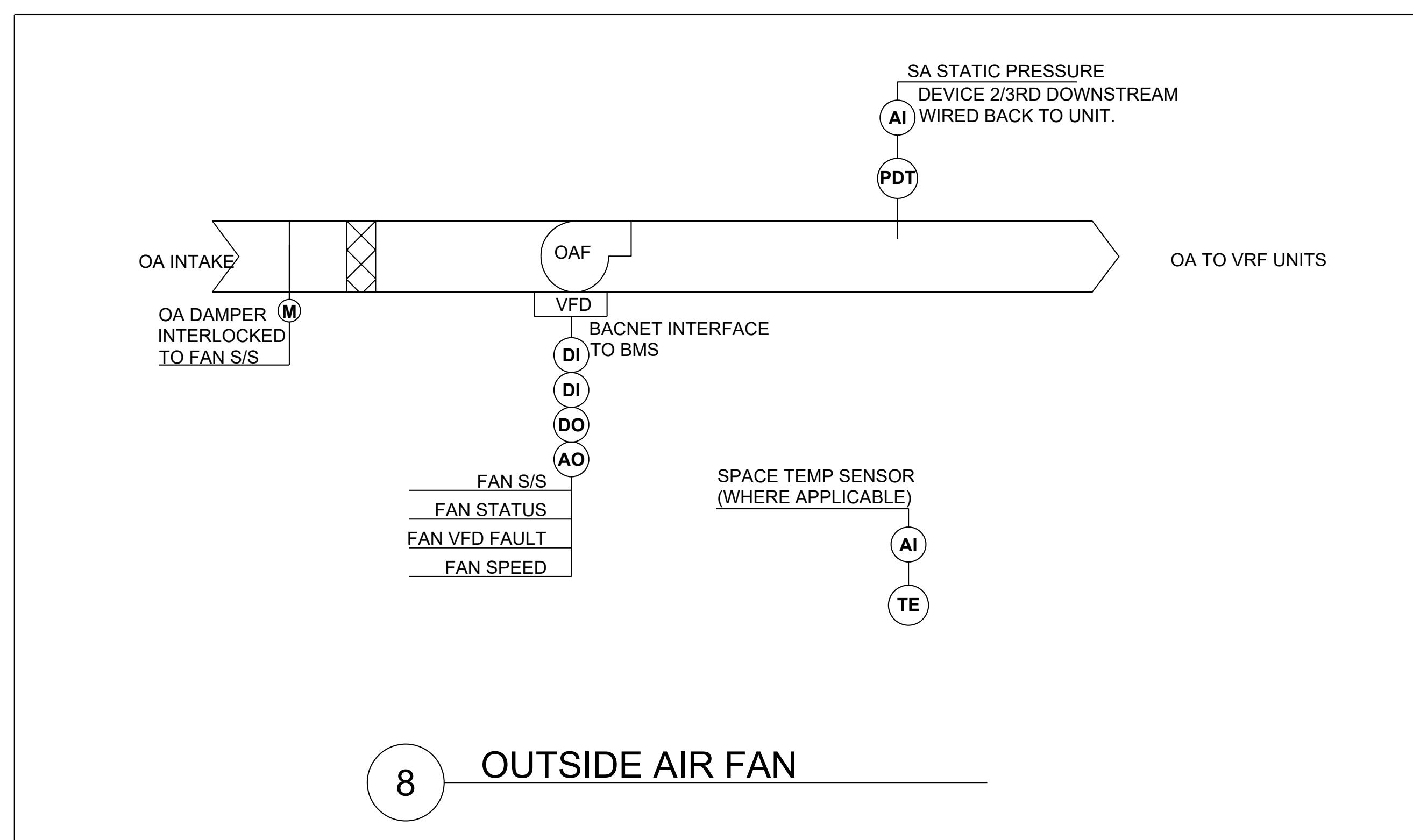
CLIENT:



project title
NEW RESIDENTIAL DEVELOPMENT
224 WEST 124TH STREET, NY 10027

drawing title
MECHANICAL CONTROLS DIAGRAM
SHEET 5 OF 5

scale NONE project no. 8049.00 (MARKET)
date 2020-09-17 sheet no. 43 OF 43
drawn X X drawing no.
checked X X M-805.00



NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE.

MGE
MGEngineering D.P.C., we engineer success
116 West 32nd Street, 12th Floor, New York, NY 10001
P 212.643.9055 F 212.643.0503 www.mgedpc.net