GENERAL NOTES:

1. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.

2. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICES FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS SUBJECT TO APPROVAL OF ENGINEER.

3. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL STEEL FRAMING.

4. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

5. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP WORK PROPOSAL.

6. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME. ALL SHUT DOWNS SHALL BE ON OFF HOURS & INCLUDED IN BID.

7. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ENGINEER

8. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT, AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

9. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

10. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL. SEE SPECIFICATIONS

11. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, CONDUIT, AND EQUIPMENT.

12. ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT WILL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THIS CONTRACTOR AS DIRECTED BY THE OWNER.

13. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.

14. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.

15. INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

16. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED.

17. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC, WHICH AFFECT THIS WORK AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.

18. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF HVAC IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION; ALL AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED FOR THE SYSTEMS INCLUDED. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS, LICENSES, CERTIFICATES, FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

19. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

ALL WORK TO BE INSTALLED SHALL CONFORM TO THE BUILDING MANAGEMENT BUILDING STANDARDS FOR ALTERATIONS, CONSTRUCTION, AS PART OF THIS CONTRACT.

HEATING/COOLING LOAD CALCULATIONS

1. ALL HEATING AND COOLING LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH LATEST NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE BY APPLICATION OF ASHRAE 90.1

   - 2024 INTERNATIONAL ENERGY CONSERVATION CODE
   - 2016 ASHRAE 90.1, 2019 ASHRAE 62.1
   - 2025 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION & CONSTRUCTION CODE

ALL CALCULATIONS ARE IN ACCORDANCE WITH NYS ENERGY CODE SECTION C403.2.1

HVAC DESIGN IS IN COMPLIANCE WITH THE ENERGY CODE PER NYS 2025 ENERGY CODE SUPPLEMENT C103.2.2 AND IECC 2024.

MECHANICAL SYMBOLS:

DUCTWORK SYMBOLS

SINGLE LINE / DOUBLE LINE

- FLEXIBLE CONNECTION (FC)
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RAD.)
- STANDARD RADIUS ELBOW
- NEW DUCT (WIDTH X DEPTH) — 10x8
- DUCT WITH SOUND LINING
- MANUAL VOLUME DAMPER — VD
- FIRE DAMPER — FD
- BACK DRAFT DAMPER — BDD
- COMBINATION FIRE/SMOKE DAMPER — FSD
- MOTORIZED DAMPER — M
- SUPPLY DUCT (UP & DOWN) — UP / DN
- EXHAUST DUCT (UP & DOWN) — UP / DN
- INCLINED RISE, IN DIRECTION OF AIR FLOW — R
- INCLINED DROP, IN DIRECTION OF AIR FLOW — D

PIPING SYMBOLS

- NEW PIPE
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- PIPE DOWN
- PIPE UP
- TOP CONNECTION
- BOTTOM CONNECTION
- RISE OR DROP IN PIPE
- UNION
- FLANGED END
- DEAD END — SCREWED CAP
- DEAD END — WELDED CAP
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- STRAINER
- THERMOMETER WELL
- PRESSURE GAGE WITH NEEDLE VALVE
- THERMOMETER
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- SILENT CHECK VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CIRCUIT SETTER
- 2-WAY CONTROL VALVE
- MOTORIZED VALVE — M
- THREE-WAY CONTROL VALVE
- SAFETY OR PRESSURE RELIEF VALVE — R
- PRESSURE REDUCING VALVE
- THERMAL EXPANSION VALVE
- PLUG VALVE
- SOLENOID VALVE — S
- FLOW CONTROL VALVE
- DRAIN VALVE

GENERAL SYMBOLS

- SECTION DESIGNATION (X) / DRAWING REFERENCE NUMBER (DWG)
- REVISION NUMBER
- PUMP
- METER — M
- REFRIGERANT SIGHT GLASS
- VIBRATION ISOLATOR IN HANGER

DIFFUSER SYMBOLS

- SUPPLY DIFFUSER
- RETURN/EXHAUST GRILLE
- 3-WAY DIFFUSER
- 2-WAY DIFFUSER
- 2-WAY CORNER DIFFUSER
- 1-WAY DIFFUSER
- LINEAR DIFFUSER
- SIDEWALL DIFFUSER

MECHANICAL ABBREVIATIONS:

A	AMPERES
AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
ACC	AIR COOLED CONDENSER
ACS	AUTOMATIC CONTROL SYSTEM
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
AP	ACCESS PANEL
B	BOILER
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTU/H	BTU PER HOUR
CAP	CAPACITY
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFSD	COMBINATION FIRE/SMOKE DAMPER WITH AD CEILING GRILLE
CG	
CH	CHILLER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
COND	CONDENSATE
COOL	COOLING
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
D	DROP
DB	DRY BULB
DIAM	DIAMETER
DMPR	DAMPER
DN	DOWN
DSR	DIGITAL SWITCH ROOM
DWG	DRAWING
DX	DIRECT EXPANSION
E	EXISTING
EAT	ENTERING AIR TEMP.
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EWB	ENTERING WET BULB TEMPERATURE
ER	EXISTING TO BE RELOCATED
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMP.
EXH	EXHAUST
EXP	EXPANSION
F	FILTER, FAN
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FLEXIBLE CONNECTION, FAN COIL
FD	FIRE DAMPER, FLOOR DRAIN
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FEET
FV	FACE VELOCITY
G	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HC	HEATING COIL
HD	HEAD
HR	HOUR
HUM	HUMIDIFIER
HV	HEATING AND VENTILATING
HWP	HOT WATER PUMP
HWS&R	HOT WATER SUPPLY & RETURN
HP	HEAT PUMP, HORSEPOWER
HX	HEAT EXCHANGER
HZ	HERTZ
IPS	IRON PIPE SIZE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMP.
LBS	POUNDS
IN	INCHES
LD	LINEAR DIFFUSER, LEAK DETECTOR
LDB	LEAVING DRY BULB TEMP.
LIN FT	LINEAR FEET
LWB	LEAVING WET BULB TEMP.
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMP.
M	AUTOMATIC DAMPER MOTOR ACTUATOR
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSAND BTU PER HR
MCA	MINIMUM CKT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MER	MECHANICAL EQUIPMENT ROOM
MFS	MAXIMUM FUSE SIZE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MTR	MOTOR
MW	MAKEUP WATER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN, NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
OPD	OVERCURRENT PROTECTION DEVICE
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RISE
RA	RETURN AIR
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR, SOUND ATTENUATOR
SD	SMOKE DETECTOR
SENS	SENSIBLE
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TF	TRANSFER FAN
TOD	TOP OF DUCT
TR	TOP REGISTER
TRD	TRANSFER DUCT
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WSA	WIRE SIZE AMPS
WTS	WEIGHTS
XA	EXHAUST AIR
XT	EXPANSION TANK

MECHANICAL DRAWING LIST

DRAWING #	TITLE
M-001	MECHANICAL SYMBOLS, NOTES, AND ABBREVIATIONS
M-101	MECHANICAL SCHEDULES #1
M-201	MECHANICAL SPECIFICATION #1
M-202	MECHANICAL SPECIFICATION #2
M-300	MECHANICAL – DEMOLITION WORK PLAN
M-301	MECHANICAL – NEW WORK PLAN
M-401	MECHANICAL DETAIL SHEET #1

SHOP DRAWINGS

1. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT, & DUCTWORK & PIPING LAYOUTS. ALL SHOP DRAWINGS ARE TO BE FULLY COORDINATED WITH ALL INSTALLING TRADES PRIOR TO SUBMITTAL. NO WORK SHALL BE INSTALLED PRIOR TO REVIEW AND ACCEPTANCE OF SHOP DRAWINGS BY ENGINEER, ARCHITECT AND CLIENT. ALLOW FOR (5) BUSINESS DAY TURN-AROUND FOR ALL SUBMITTALS. SUBMIT (3) HARD COPIES FOR REVIEW.

CODES:

1. NEW YORK STATE BUILDING CODE 2025
2. NEW YORK STATE MECHANICAL CODE 2025
3. NY STATE ENERGY CONSERVATION CODE 2025, BASED ON 2024 IECC
4. NEW YORK STATE FIRE CODES 2025

IT IS A VILOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A REGISTERED ARCHITECT OR A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ALTERATION TO THIS PLAN IS MADE, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145-SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

THESE PLANS ARE INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF THE ENGINEER. INFRINGEMENT WILL BE PROSECUTED. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK.

NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

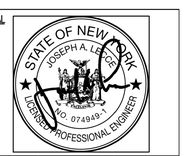
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MEP ENGINEER
Lecce Engineering
Joseph A. Lecce P.E., P.C.
297 KNOLLWOOD ROAD,
Suite 211
WHITE PLAINS, NY 10607
(914) 419-4663

PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL



SCALE:	DATE:	PROJECT NO.:
1=1	08/03/2026	#2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
MECHANICAL SYMBOLS & NOTES

DRAWING NO:
M-001

STEAM BOILER SCHEDULE

TAG No.	SERVICE	LOCATION	CAPACITY DATA					BURNER DATA		ELECTRICAL DATA					MANUFACTURER	MODEL	AFLUE%	DIMENSION (IN)	WEIGHT (LBS)	MEA No.	REMARKS
			IBR GROSS OUTPUT(MBH)	IBR NET OUTPUT(MBH)	BOILER HORSEPOWER	STEAM PRESSURE	DESIGN WORKING PRESSURE	FUEL TYPE	OIL INPUT GPH	VOLT	PHASE	HZ	FLA BOIL/TOT	MOCP							
B-1(NEW)	GROUND FLR MER	MER	753	565	22.5	5 LBS	160	#2 FUEL OIL	6.5	120	1	60	10 MAX	20	WEIL MCLAIN	80-780	85.0%	55"Lx30"Wx47"H	2434	–	QUANTITY =1

NOTES:
1. PROVIDE LOW WATER CUT-OFFS FOR BOILER. FIELD INSTALL A SECOND LW CUTOFF FOR EACH BOILER
2. BOILER BURNER TO HAVE FULL HI-LOW MODULATIONS
3. PROVIDE 15 PSIG ASME RATED T&P VALVE, MANUAL RESET TEMPERATURE LIMITING DEVICE, ELECTRONIC LOW WATER CUT-OFF (2 EACH), BOILER TEMPERATURE AND PRESSURE GAUGES, ALARM BELL W/SILENCE SWITCH, HI/LO PRESSURE TRANSDUCERS
4. PROVIDE TYPE-B BE GAS VENT, DOUBLE WALL ALUMINUM, WITH ROOF CAP, AND IS TO BE INSTALLED PER MANUFACTURERS DIRECTIONS AND LOCAL BUILDING CODES.
5. BOILER TO BE INSTALLED PER MANUFACTURERS DIRECTIONS.
5. PROVIDE BOILER WITH INSULATED JACKETS.
6. BOILER TO BE DELIVERED IN PIECES AND FIELD ASSEMBLED. FIELD PRESSURE TEST BOILER PER MANUFACTURERS DIRECTION
7. PROVIDE BOILER WITH PRESSURE GAUGES, GAUGE GLASS, GAUGE COCKS AND GUARDS
7. CONTACT IS MITCH CASTELL AT ATI INDUSTRIES, 631.331.0215 X124, MC@ATIOFNY.COM

NYSECC 2025 COMPLIANCE:
1. ALL BOILER EQUIPMENT ARE IN ACCORDANCE WITH NEW YORK STATE ENERGY CONSERVATION CODE 2025 SECTION C503.3

SEQUENCE OF OPERATION:

BOILER B-1:

1. BOILER TO BE CONTROLLED BY THE MANUFACTURER'S CONTROLS AND PROGRAMMABLE DIGITAL WALL THERMOSTAT, HONEYWELL VISION PRO-8000 CONTROLLER WITH REMOTE SENSOR TO MAINTAIN AN AVERAGE WINTER TEMPERATURE OF 65DEG F (ADJ) DURING OCCUPIED MODES AND 60DEG F (ADJ) DURING UN-OCCUPIED MODES
2. BOILER TO MAINTAIN A DISCHARGE PRESSURE OF 5PSIG (ADJ) VIA A HI/LO PRESSURE TRANSDUCER AT BOILER
3. BOILERS BURNER HAS A HI-LO CONTROLER AND TO BE STAGED TO MAINTAIN THE SET POINT TEMPERATURES.
4. IF BOILER FAILS A LOCAL AUDIBLE AND VISUAL ALARM AT OUTSIDE OF THE DOOR TO BOILER ROOM SHALL BE INITIATED
5. LOCAL "OOT" ALARM SHALL SHUT BOILER DOWN AND SEND AN ALARM TO FACP & A LOCAL AUDIBLE/VISUAL ALARM OUTSIDE OF DOOR
6. EPO AT DOOR TO SHUT ALL BOILERS DOWN AND ASSOCIATED PUMPS, AND SEND A LOCAL AUDIBLE & VISUAL ALARM

WEIL-McLAIN MODEL 80

80 SERIES BOILER
SUGGESTED SPECIFICATIONS

I. General Requirements

A. Furnish and install low pressure, wet base, cast iron sectional boiler with power burner that pressurize the firebox and operate under forced draft.

B. Assemble and install boiler-burner unit(s) in compliance with manufacturer's installation instructions. All work must be done in a neat and workman like manner.

C. Weil-McLain Model-80-780 boiler with burner capable of burning No. 2 fuel oil.
1. (B) Boiler-burner unit Field assembled (standard).
2. (L) No. 2 fuel oil.
3. (S) steam.
4. (F) Forced draft.

A. Boiler shall have AHRI gross Input at 100% firing rate – 780 MBH per boiler.

E. Boiler shall be manufactured to conform to Section IV of the ASME Boiler and Pressure Vessel Code.
1. Individual sections to be hydrostatically pressure tested at factory in accordance with ASME requirements.
2. Individual sections shall bear the ASME symbol as well as the "MAWP WATER 80 PSI" and "MAWP STEAM 15 PSI" on the outside surface of each section.
3. The boiler rating label shall read Maximum Allowable Working Pressure 50 PSI water and 15 PSI steam

F. Regulatory Requirements
1. Boiler and controls to comply with applicable regulations.
2. Provide U.L. labeled burner.

G. Submittals
1. Submit shop drawings and product data.
2. Submittal packet to include boiler (and burner) manufacturer descriptive literature, installation instructions, operating instructions, and maintenance instructions.

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500 Blaine Street
Michigan City, IN 46360-2388
http://www.weil-mclain.com

II. Product

A. Acceptable boiler/burner manufacturer include:
a) Weil-McLain only, as specified in Part I, Paragraph C.
b) Full intent of these specifications, and provide complete submittal including literature, wiring diagrams, fuel piping diagrams, and a list of similar installations.
c) Submittal to be presented to specifying engineer at least seven working days for approval before bid opening. Substitutions are not permitted.
d) Burner and Energy Management Control System must be tested and approved for installation with specified boiler by boiler manufacturer.

B. Boiler construction
1. Cast Iron sections
2. Assembled with short, individual draw rods.
3. Cast with sealing grooves for high temperature sealing rope to assure permanent gas-tight seal.
4. Sealed watertight by elastomer sealing rings, not cast iron or steel nipples. Each port opening is machined to completely capture sealing ring between sections.
5. Must be hydro-wall design to provide completely water-cooled combustion chamber.
6. Provided with sufficient tappings to install required controls.
7. Limited 10-year warranty against workmanship and defects to be in writing by manufacturer.

C. Boiler
1. Boiler to be designed with a rear flue outlet.
2. Constructed to provide balanced water flow through entire section assembly using single supply and return connections for water. No external headers are necessary for water. Steam requires an external header 24" minimum from the waterline to the bottom of the header.
3. Designed with a low silhouette to provide maximum headroom.
4. Furnished with insulated burner mounting plate having necessary holes and tappings to mount burner. High temperature sealing rope is used to provide permanent gas-tight seal between front section and plate.
5. Furnished with two observation ports (one in front and one in back)to allow visual inspection of the flame.
6. Provided with steel flue damper assembly with a built-in adjustable damper capable of being locked into place after adjustment.
7. Furnished with flanged aluminized steel flue collector hood bolted to top of section assembly.
8. High temperature sealing rope used to provide permanent gas-tight seal between hood and section assembly.
9. Furnished with heavy-duty ¼" steel cleanout plates to cover cleanout openings on the side of the boiler.
10. Port openings must be of captured seal design – a machined groove assures uniform compression of the sealing ring and protects the seal from contaminants.

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http://www.weil-mclain.com

Elastomer sealing rings are to be used to provide permanent watertight seal between sections. Unlike cast iron or steel push nipples, the elasticity of the seals fills any gaps caused by misalignment or expansion and contraction.
11. Provided with flexible refractory blankets to be attached to back and floor of combustion chamber.
12. Shipped with insulated heavy gauge steel jacket with durable powdered paint enamel finish. Jacket designed to be installed after connecting supply and return piping.
13. Jacket design will allow easy access to top and sides of boiler for maintenance and/or inspection without use of tools.

D. Boiler foundation:
Installer to construct needed support and level concrete foundation where boiler room floor is uneven or will not support the weight of the boiler.

E. Boiler trim:
1. All electrical components to be of high quality and third (3rd) party recognized.
2. Steam boiler standard controls furnished:
a. Low pressuretrol (operating) and high pressuretrol set at maximum pressure as a safety control.
b. Steam pressure gauge with dial clearly marked and easy to read.
c. Gauge cock water set with gauge glass, guards and aluminum water level plate.
d. ASME certified pressure relief valve, set to relieve at 15 PSIG. Side outlet discharge type; contractor to pipe outlet to floor drain or near floor, avoiding any area where freezing could occur.
3. Low water cut-off for steam boiler(s):
a. Boiler to be furnished with U.L. labeled low water cut-off with ASME working pressure rating equal to or exceeding the maximum boiler working pressure as shown on the boiler's rating label. Install cut-off according to manufacturer's instructions.
b. Do not use quick-connect fittings on boiler.
c. Locate so burner shuts down if boiler water level falls below allowable safe waterline (steam boilers, ¼" above bottom of gauge glass).
d. Steam boiler primary low water cut-off shall be a float type – auto reset.
e. Steam boiler secondary low water cut-off shall be a Probe-type with manual reset:

III. Burner, Control Panels and Start-Up & Service:

A. Burner
1. Burner fuel supply system and burner installation to conform to burner manufacturer's installation instructions and applicable codes.
2. Burner motor characteristics: ❒ 120/60/1,
3. Control characteristics 120/60/1.

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4. Burner fuel – No. 2 fuel oil.
5. Code(s) - standard boiler,
6. Burner to have U.L. label supplied by the burner manufacturer.
7. Burner designed to ensure high efficiency and good performance under forced draft conditions with 0.1" W.C. positive pressure at the flue collar.
8. Burner to be adjusted to provide 9.0 to 10.0% CO_2 for natural gas and/or 12% CO_2 (± ½%) with zero smoke for oil firing.
9. Burner manufactured by: ❒ Beckett, ❒ Power-Flame, ❒ Gordon-Piatt, ❒ Webster, ❒ Carlin
10. Burner operating mode: low-high-off

A. Panel options – power on/fuel on light is standard on all burner with panels.
1) Call For Heat
2) Ignition On
3) Pilot Failure
4) Low Water
5) Flame Failure
6) Silencing Switch
7) Control Fuse and Holder
8) Post Purge Timer
9) Alarm Bell

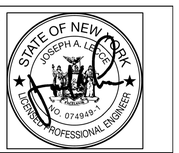
B. Start-up and Service
1. The contractor shall obtain the services of a factory-authorized agent to provide burner light off and adjustment. The start-up agent shall provide a burner light-off report as written proof that the burner was adjusted to optimum performance.
2. The authorized agent shall provide a one-year service warranty after start-up.

MEP ENGINEER
Lecce Engineering
Joseph A. Lecce P.E., P.C.
297 KNOLLWOOD ROAD,
Suite 211
WHITE PLAINS, NY 10607
(914) 419-4663

PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL



SCALE:	DATE:	PROJECT NO.:
1=1	08/03/2026	#2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
MECHANICAL SCHEDULES SHEET #1

DRAWING NO:
M-101

IT IS A VILOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A REGISTERED ARCHITECT OR A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ALTERATION TO THIS PLAN IS MADE, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145-SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

THESE PLANS ARE INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF THE ENGINEER. INFRINGEMENT WILL BE PROSECUTED. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK.

NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

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MECHANICAL SPECIFICATIONS:

GENERAL REQUIREMENTS:

A. INSTALL ALL NEW WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.
   CODES, PERMITS AND INSPECTIONS:
   1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF 2025 NEW YORK STATE & INTERNATIONAL BUILDING CODE, LOCAL BUILDING DEPARTMENT, BUILDING MANAGEMENT, AND ALL AUTHORITIES HAVING JURISDICTION. APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
   2. THIS CONTRACTOR SHALL PERFORM ALL CONTROLLED INSPECTIONS IF REQUIRED AND OBTAIN ALL EQUIPMENT USE PERMITS AS REQUIRED BY STATE AND LOCAL AUTHORITIES. PERMITS SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

C. SITE VERIFICATION:
   1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF THE BID, AND IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.

D. CONTRACT DOCUMENTS:
   1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.
   2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS, THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.
   3. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
   4. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE MECHANICAL WORK ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COSTS.

E. GUARANTEE:
   1. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNERS PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.
   2. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.
   3. THIS CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.
   4. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5-YEAR WARRANTY.
   5. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201, LATEST EDITION, OR AS REQUIRED BY THE ARCHITECT DOCUMENTS, AND/OR THE STRUCTURAL ENGINEER'S DOCUMENTS, AS APPLICABLE, ARE PART OF THIS CONTRACT.

F. DEFINITIONS:
   1. MECHANICAL CONTRACTOR, "THIS CONTRACTOR": THE PARTY OR PARTIES THAT HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE MECHANICAL WORK AS DESCRIBED HEREIN.
   2. "THIS CONTRACT", "THE CONTRACT": THE AGREEMENT COVERING THE WORK TO BE PERFORMED BY "THIS CONTRACTOR".
   3. "APPROVED", "EQUAL", "SATISFACTORY", "ACCEPTED", "ACCEPTABLE", "EQUIVALENT": SUITABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION.
   4. "THESE SPECIFICATIONS": "THIS SECTION, PART, DIVISION" (OF THE SPECIFICATION): THE DOCUMENT SPECIFYING THE WORK TO BE PERFORMED BY "THIS CONTRACTOR".
   5. "THE MECHANICAL WORK", "THIS WORK": ALL LABOR MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE MECHANICAL CONTRACTOR.
   6. "ARCHITECT", "ENGINEER", "OWNER'S REPRESENTATIVE": THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.
   7. "FURNISH": PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK.
   8. "INSTALL": UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.
   9. "PROVIDE": "FURNISH" AND "INSTALL"
   10. "NEW": MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
   11. "RELOCATE": MOVE EXISTING EQUIPMENT AND ALL ACCESSORIES AS REQUIRED.
   12. "REMOVE": DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL ITEMS SHALL BE LEGALLY DISPOSED OF. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY AFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.

SCOPE OF WORK

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES NECESSARY FOR THE COMPLETE, SAFE INSTALLATION OF ALL MECHANICAL WORK. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   1. DEMOLITION AND REMOVAL OF ITEMS AS REQUIRED.
   2. NOT USED
   3. NOT USED
   4. PIPING AND PIPING ACCESSORIES INCLUDING ALL VALVING.
   5. EQUIPMENT (BOILER, PUMP, ETC.)
   6. INSULATION OF PIPING, EQUIPMENT
   7. SOUND ATTENUATORS AND SOUND LINING.
   8. AUTOMATIC TEMPERATURE CONTROLS.
   9. TESTING AND BALANCING.
   10. CUTTING AND PATCHING.
   11. SHOP DRAWINGS.
   12. AS-BUILT DRAWINGS.
   13. OPERATING AND MAINTENANCE MANUALS.
   14. FULL COORDINATION WITH OTHER TRADES.
   15. WARRANTY AND GUARANTY.
B. PHASING AS REQUIRED BY OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR BUILDING MANAGEMENT.
C. PREMIUM TIME FOR WORK TO BE PERFORMED AFTER-HOURS AS REQUIRED BY BUILDING MANAGEMENT AND/OR OWNER.
D. PROVIDE FOR ALL FILING, OBTAINING ALL PERMITS, PAY ALL FEES, CONTROLLED INSPECTIONS.
E. FULL TESTING AND STARTUP OF ALL SYSTEMS.
F. SECURE CERTIFICATES, PAY ALL FEES AND CHARGES FOR ALL WORK INSTALLED, CERTIFYING COMPLIANCE WITH ALL AUTHORITIES . CONTRACTOR SHALL PERFORM REQUIRED CONTROLLED INSPECTION AND OBTAIN ALL EQUIPMENT USE PERMITS. DELIVER CERTIFICATES TO OWNER FOR SIGNING BEFORE FILING.

COORDINATION WITH BUILDING MANAGEMENT

A. THE CONTRACTOR SHALL OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING. FOR THE PURPOSE OF THE BID, ASSUME ANY NOISY WORK (E.G., CHOPPING, CORE DRILLING, ETC.,) AND BASE BUILDING SYSTEM INTERRUPTIONS ARE TO BE PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
B. THE CONTRACTOR SHALL ADHERE TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW, WITH BID SUBMISSION.
C. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS OR A MINIMUM OF TWO (2) DAYS PRIOR TO ANY WORK, WHICHEVER IS MORE STRINGENT.

SHOP DRAWINGS

A. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN COMPLETED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL REQUIREMENTS. SHOP DRAWINGS SUBMISSION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   1. NOT USED
   2. PIPING LAYOUT AND APPURTENANCES – PROVIDE PIPING, VALVING, CHEMICAL TREATMENT, SHOP STANDARDS AND 3/8 SCALE PIPING LAYOUT WITH ALL VALVING.
   3. INSULATION FOR DUCTWORK, PIPING AND EQUIPMENT.
   4. CERTIFIED WATER BALANCING REPORT.
   5. EQUIPMENT CATALOG CUTS FOR ALL ITEMS TO BE UTILIZED ON PROJECT (BOILER CONTROLLERS, FLUE, ETC.)
   6. AUTOMATIC TEMPERATURE CONTROL DIAGRAMS, DEVICES AND SEQUENCE OF OPERATION.
B. AS-BUILT DRAWINGS IN THE LATEST AUTOCAD FORMAT AT PROJECT COMPLETION SHOWING THE INSTALLED CONDITION OF WORK.
C. THE QUANTITY OF SHOP DRAWINGS SHALL AS A MINIMUM BE FOUR (4) COPIES OF 8-1/2"x11" SUBMISSIONS AND ONE (1) REPRODUCIBLE AND ONE (1) PRINT OF ALL DRAWINGS. SPECIFIC JOB REQUIREMENTS MAY BE MORE STRINGENT AND CONTRACTOR IS RESPONSIBLE TO OBTAIN REQUIREMENTS FROM CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR ARCHITECT. PROVIDE FOUR (4) DISKS WITH ALL PDF PLOTS AND AUTOCADD ELECTRONIC DRAWINGS FILES INLUDED.

SUBSTITUTIONS

A. NO SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL TO THE ENGINEER WHICH INCLUDES ALL DIMENSIONAL, PERFORMANCE AND MATERIAL SPECIFICATIONS. ANY CHANGES IN LAYOUT, ELECTRICAL CHARACTERISTICS, STRUCTURAL REQUIREMENTS, OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF THIS PROPOSAL. THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL CHANGES RESULTING FROM SUBSTITUTION. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW IN CONJUNCTION WITH THE SUBMITTAL OF THE SUBSTITUTION. ANY SUBSTITUTION MUST BE SUBMITTED WITH AN EXPLANATION WHY A SUBSTITUTION IS BEING UTILIZED. IF THE SUBSTITUTED ITEM DEVIATES FROM THE SPECIFIED ITEM, THOSE DEVIATIONS ARE TO BE IDENTIFIED ON A LINE BY LINE BASIS. IF THE SUBSTITUTE IS BEING UTILIZED FOR FINANCIAL REASONS, THE ASSOCIATED CREDIT MUST BE SIMULTANEOUSLY SUBMITTED.
B. ALL SUBSTITUTED EQUIPMENT SHALL CONFORM TO SPACE REQUIREMENTS AND PERFORMANCE REQUIREMENTS SHOWN ON CONTRACT DOCUMENTS. CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT DOES NOT MEET THESE REQUIREMENTS AT HIS OWN EXPENSE. ANY MODIFICATIONS TO ASSOCIATED SYSTEMS OR ADDITIONAL COSTS ATTRIBUTED TO THIS SUBSTITUTION SHALL BE AT THIS CONTRACTOR'S EXPENSE.
C. CONTRACTOR SHALL SUBMIT BID BASED ON SPECIFIED ITEMS AND SHALL SUPPLY AS AN ALTERNATE PRICE ANY SUBSTITUTIONS.

CHASING, CHOPPING OR CORE DRILLING

A. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING BEING PERFORMED, THIS CONTRACTOR SHALL FIELD INVESTIGATE EXISTING CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY NEW BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY CONSTRUCTION MANAGER PRIOR TO PROCEEDING.

DEMOLITION, REMOVAL AND RELOCATION

A. GENERAL CONTRACTOR TO REMOVE ALL CEILING IN AREAS WHERE NEW DUCTWORK OR PIPING IS TO BE INSTALLED OR EXISTING IS ALTERED, AS PER ARCHITECT'S INSTRUCTIONS.
B. NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH THE CONSTRUCTION MANAGER SO AS TO MINIMIZE DISRUPTION. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
C. ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT WILL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR AS DIRECTED BY THE ARCHITECT OR OWNER. REFRIGERATION CONTAINED IN EXISTING EQUIPMENT TO BE REMOVED SHALL BE RECLAIMED OR LEGALLY DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS AND ASHRAE.
D. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. COORDINATE ALL DEMOLITION AND REMOVALS WITH BUILDING MANAGEMENT.

AS-BUILT DRAWINGS

A. CONTRACTOR SHALL MAINTAIN RECORD DRAWING PRINTS ON JOB SITE AND RECORD, AT TIME OF OCCURRENCE, DEVIATIONS FROM CONTRACT DOCUMENTS DUE TO FIELD COORDINATION, BULLETINS, OR ADDENDA.
B. CONTRACTOR SHALL REVISE SHOP DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AS-BUILT CONDITION (PIPING AND DUCTWORK) DRAWINGS UPON COMPLETION OF THE PROJECT. FINAL SUBMISSION OF REPRODUCIBLE AS-BUILT DRAWINGS ARE TO BE SIGNED AND CERTIFIED BY INSTALLING CONTRACTOR THAT THIS IS THE AS-BUILT CONDITION OF THE WORK. CONTRACTOR SHALL SUPPLY THE RECORD DRAWINGS IN THE LATEST AUTOCADD FORMAT.

MAINTENANCE MANUALS

A. SUBMIT FOUR (4) LOOSE-LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS TO INCLUDE THE FOLLOWING:
   1. OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS.
   2. MANUFACTURERS' CATALOG CUTS ON ALL EQUIPMENT.
   3. AUTOMATIC TEMPERATURE CONTROL SYSTEMS WITH SEQUENCE OF OPERATIONS, CATALOG CUTS OF ALL DEVICES, AND POINT-TO-POINT WIRING DIAGRAMS.
   4. CERTIFIED FINAL AIR AND WATER BALANCING REPORT.
   5. DUCT AND PIPING AS-BUILT DRAWINGS WITH VALVE CHART AND KEY PLAN DRAWINGS INSERTED IN BINDER.
   6. ALL ITEMS SUBMITTED FOR REVIEW IN SHOP DRAWING SECTION.

SERVICE AND WARRANTY (MAINTENANCE CONTRACT)

A. ALL NEW EQUIPMENT, MATERIALS, INSTALLATIONS, BY THIS CONTRACTOR SHALL BE WARRANTIED FOR A PERIOD OF ONE (1) YEAR FROM THE TIME OF FINAL ACCEPTANCE OF ALL COMPLETED SYSTEMS FROM OWNER AND ENGINEER.
B. THIS CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE PRICE, A FULL ONE YEAR SERVICE CONTRACT OF ALL MECHANICAL COMPONENTS AND SYSTEMS, WITH PRICES FOR YEARS 2, 3 AND 4 FOLLOWING THIS FIRST YEAR. AT THE TIME OF ACCEPTANCE OF PROJECT, THE OWNER REPRESENTATIVE WILL DECIDE TO ACCEPT WHICH ALTERNATE, IF ANY.

ACCESS DOORS IN GENERAL CONSTRUCTION

A. THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL A PLAN INDICATING THE SIZE (MINIMUM 20"X 20") AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, VALVES, DAMPERS AND CONTROLS. CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLING OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID.

MECHANICAL EQUIPMENT

A. PROVIDE ALL EQUIPMENT AND ACCESSORIES OF THE SIZES AND CAPACITIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.
B. INSTALL EQUIPMENT IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, MANUFACTURERS RECOMMENDATIONS, INSTRUCTIONS, AND ALL AUTHORITIES HAVING JURISDICTION.
C. PROVIDE EQUIPMENT SUPPORTS AND/OR MOUNTINGS AS INDICATED ON THE DRAWING, IN VIBRATION SPECIFICATION AND AS FOLLOWS:
   1. FLOOR MOUNTED EQUIPMENT – PROVIDE DIMENSIONS FOR A 4" CONCRETE HOUSEKEEPING PAD WITH ALL REQUIRED WATERPROOFING TO THE CONSTRUCTION MANAGER.
   2. EQUIPMENT ON FLOOR STANDS – PROVIDE FLOOR STAND OF STRUCTURAL STEEL OR STEEL PIPES AND FITTINGS AND BOLT TO FLOOR.
D. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE EQUIPMENT LOAD.

HANGERS AND SUPPORTS:

A. PROVIDE ALL PIPE HANGERS, HANGER RODS SUPPORTS, INSERTS, ATTACHMENTS, CLAMPS, GUIDES, SUPPLEMENTAL STEEL AND ANCHORS AS REQUIRED TO INSTALL PIPING SYSTEM SIZED TO ACCOMMODATE THE SYSTEM LOADS. HANGERS AND SUPPORTS ARE TO BE IN ACCORDANCE WITH MSS RECOMMENDATIONS.
B. PROVIDE INSULATED PROTECTIVE SADDLES FOR INSULATED PIPING.
C. PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH RECOMMENDATIONS OF MSS SP-69 AND ALL APPLICABLE CODES. ALL THREADED ROD IS TO BE GALVANIZED. PROVIDE 2" VERTICAL ADJUSTMENT FOR ALL HANGERS. PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION, BRANCH PIPING OVER 5 FEET, AND CONCENTRATED LOADS DUE TO VALVES, STRAINERS AND OTHER ACCESSORIES.
D. HANGER AND SUPPORTS SHALL BE MANUFACTURED BY GRINNELL OR APPROVED EQUAL.
E. ALL HANGERS AND SUPPORTS TO BE SEISMICALLY DESIGNED AND INSTALLED PER THE LOCAL BUILDING CODE.

INSULATION

A. ALL INSULATION SHALL MEET THE REQUIREMENTS OF ASTM, NFPA NEW YORK STATE ENERGY CODE AND ALL AUTHORITIES HAVING JURISDICTION. ALL MECHANICAL INSULATION, (JACKETING, COVERINGS, ADHESIVES, MASTICS, FACINGS, TAPES, ETC.), SHALL HAVE RATINGS NOT EXCEEDING A "FLAME SPREAD" OF 25 OR LESS AND "SMOKE DEVELOPED" INDEX OF 50 OR LESS.
B. BEFORE APPLYING INSULATION, ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED. FURNISH AND INSTALL AS PER MANUFACTURERS REQUIREMENTS.
C. INSULATION FOR FITTINGS OR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT DAMAGE.

PIPE INSULATION:

A. FIBERGLASS PIPE INSULATION: ONE-PIECE MOLDED SECTIONAL FIBER GLASS INSULATION, CONFORMING TO ASTM C-547, CLASS 1, 2, 3 TO 850EF WITH 4 LB/CU. FT. DENSITY WITH A THERMAL CONDUCTIVITY OF NOT OVER 0.23 AT 75EF MEAN. PROVIDE WITH FACTORY-APPLIED ALL SERVICE JACKET AND DOUBLE ADHESIVE SELF-SEALING LAP. COLD WATER PIPE INSULATION JACKET SHALL BE OF THE CONTINUOUS VAPOR BARRIER TYPE. THE INSULATION SHALL BE SIMILAR TO OWENS-CORNING FIBERGLASS ASJ/SSL-II PIPE INSULATION.
B. INSULATION FOR FITTINGS, FLANGES, AND VALVES: PROVIDE INSULATION FOR FITTINGS, FLANGES, AND VALVES PREMOLDED, PRECUT, OR JOB FABRICATED OF THE SAME THICKNESS AND CONDUCTIVITY AS USED ON ADJACENT PIPING.
C. PROVIDE INSULATION FOR PIPING, FITTINGS, FLANGES AND VALVES OF THE THICKNESSES LISTED BELOW:

INSULATION THICKNESS FOR PIPE SIZES (INCHES)

SERVICE	MATERIAL	1"AND LESS	1-1/4"TO 1-1/2"	2"	2-1/2" TO 4"	5"TO 6"	8"OR LARGER
STEAM & COND RETURN UP TO 220 DEG. F,	FIBERGLASS	2.5"	2.5"	2.5"	3.0"	3.0"	3.0"
COLDWATER MAKEUP	FIBERGLASS	1/2"	1"	1"	1.5"	1.5"	1.5"

VALVES:

A. VALVES SHALL HAVE NAME OF MANUFACTURER AND GUARANTEED WORKING PRESSURE CAST OR STAMPED ON BODIES. VALVES OF SIMILAR TYPE SHALL BE BY A SINGLE MANUFACTURER. VALVES LOCATED 7 FEET OR MORE ABOVE OPERATING FLOOR OR PLATFORM SHALL BE PROVIDED WITH CHAIN OPERATED HANDWHEELS, RUSTPROOF CHAIN AND CHAIN GUIDE. GASKETS AND PACKINGS SHALL NOT CONTAIN ASBESTOS.
B. ALL VALVING AND VALVE MATERIALS SHALL BE SUITABLE FOR THE OPERATING TEST AND MAXIMUM PRESSURE AND TEMPERATURE REQUIREMENTS OF THE PIPING SYSTEM FOR WHICH THEY ARE BEING UTILIZED.
C. ALL VALVING SHALL BE RATED AS FOLLOWS FOR EACH SYSTEM TYPE:
   SYSTEM
   STEAM
D. VALVING SHALL BE AS SHOWN ON THE DRAWINGS AND INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   1. BALL VALVES, 4 INCHES AND SMALLER: MSS SP-110, CLASS 150, 600-PSI CWP, ASTM B 584 BRONZE BODY AND BONNET, 2-PIECE CONSTRUCTION; CHROME-PLATED BRASS BALL, STANDARD PORT FOR 1/2-INCH VALVES AND SMALLER AND CONVENTIONAL PORT FOR 3/4-INCH VALVES AND LARGER; BLOWOUT PROOF; BRONZE OR BRASS STEM; TEFLON SEATS AND SEALS; THREADED OR SOLDERED END CONNECTIONS. VINYL-COVERED STEEL LEVER HANDLE WITH MEMORY STOP. STEM EXTENSION FOR VALVES INSTALLED IN INSULATED PIPING.
      PRESSURE RATING
      150 PSIG
   2. PLUG VALVES: MSS SP-78, 175-PSI CWP, ASTM A 126 CAST-IRON BODY AND BONNET, CAST-IRON PLUG, BUNA N, VITON, OR TEFLON PACKING, FLANGED OR GROOVED END CONNECTIONS; SQUARE HEAD OPERATOR AND LOOSE WRENCH.
   3. SWING CHECK VALVES, 2-1/2 INCHES AND SMALLER: MSS SP-80; CLASS 125, 200-PSI CWP, OR CLASS 150, 300-PSI CWP; HORIZONTAL SWING, Y-PATTERN, ASTM B 62 CAST-BRONZE BODY AND CAP, ROTATING BRONZE DISC WITH RUBBER SEAT OR COMPOSITION SEAT, THREADED OR SOLDERED END CONNECTIONS.
   4. SWING CHECK VALVES, 3 INCHES AND LARGER: MSS SP-71, CLASS 125, 200-PSI CWP, ASTM A 126 CAST-IRON BODY AND BOLTED CAP, HORIZONTAL-SWING BRONZE DISC, FLANGED OR GROOVED END CONNECTIONS.
   5. ALL VALVE MANUFACTURERS SHALL BE AS LISTED OR APPROVED EQUAL BY THE ENGINEER.
   6. CONTROL VALVES: REFER TO AUTOMATIC TEMPERATURE CONTROL SECTION.

STEAM PIPING

A. PROVIDE ALL PIPING, FITTINGS, VALVES, SPECIALITIES, THERMOMETERS, AND PRESSURE GAUGES REQUIRED FOR THE OPERATING AND MAXIMUM PRESSURE AND TEMPERATURE OF THE PIPING SYSTEMS.
B. ALL PIPING SHALL BE NEW, STANDARD SIZE, FREE FROM SCALE OR RUST WITH ENDS CAPPED FOR DELIVERY AND STORAGE. EACH LENGTH OF PIPING SHALL BE PROPERLY MARKED AT THE MILL FOR PROPER IDENTIFICATION WITH NAME OR SYMBOL OF MANUFACTURER.
C. PIPE APPLICATION SCHEDULE:

SERVICE	SIZE	MATERIAL	WEIGHT	STANDARD	JOINT TYPE
COLD CONDENSATE DRAINS, MISCELLANEOUS DRAINS AND OVERFLOWS	ALL	HARD COPPER	TYPE L	ASTM 88	BRAZE OR SILVER SOLDER
STEAM TO 220 DEG F.	2" AND BELOW	BLACK STEEL	SCHEDULE 40	ASTM A53 OR A106 SEAMLESS GRADE B	THREADED
	2-1/2" TO 10"	BLACK STEEL	SCHEDULE 40	ASTM A53 OR A106 SEAMLESS GRADE B	WELDED
LP CONDENSATE TO 220 DEG F.	2" AND BELOW	BLACK STEEL	SCHEDULE 80	ASTM A53 OR A106 SEAMLESS GRADE B	THREADED
	2-1/2" TO 10"	BLACK STEEL	SCHEDULE 80	ASTM A53 OR A106 SEAMLESS GRADE B	WELDED

D. FITTING MATERIALS AND APPLICATION SCHEDULE:
   1. ALL FITTING JOINT TYPE SHALL BE THE SAME AS THE PIPING JOINT TYPE REQUIRED FOR SERVICE, BASED ON THE PIPING APPLICATION SCHEDULE.
   2. FITTING CLASS SHALL MEET THE PRESSURE AND TEMPERATURE REQUIREMENT OF THE PIPING SYSTEM BASED ON ITS MAXIMUM OPERATING PRESSURE AND TEMPERATURE OR TEST PRESSURE, WHICHEVER IF MORE STRINGENT. PRESSURE AND TEMPERATURE RATINGS OF A FITTING SHALL BE DETERMINED BY ITS CLASS AND THE CORRESPONDING ANSI STANDARD.
   3. FITTING APPLICATION TABLE

PIPE MATERIAL	PIPE SIZE INCHES	JOINT TYPE	FITTING MATERIAL	FITTING CLASS
BLACK STEEL SCH 40 (STEAM)	ALL	THREADED SOCKET WELD ENDS	MALLEABLE IRON, FORGED STEEL	150 LBS
BLACK STEEL (LPS CONDENSATE)	ALL	THREADED SOCKET WELD ENDS	MALLEABLE IRON, FORGED STEEL	300 LBS

E. PROVIDE DIELECTRIC FITTING AT ALL PIPING CONNECTIONS JOINING DISSIMILAR METALS, SUCH AS STEEL AND COPPER.
   1. ALL INSTRUMENTATION (PRESSURE GAUGES AND THERMOMETERS) SHALL BE RATED FOR THE SAME PRESSURE AND TEMPERATURE AS PIPING SYSTEM AND RATED SPECIFICALLY FOR THE SAME SERVICE AS THE PIPING. PRESSURE GAUGES ARE TO BE LIQUID FILLED WITH 1% ACCURACY. SELECT GAUGES AND THERMOMETERS SO THAT THE WORKING PRESSURE AND TEMPERATURE ARE AT THE MIDPOINT OF THE SCALE.
   2. INSTRUMENTS TO BE MANUFACTURED BY WEISS INSTRUMENTS OR APPROVED EQUAL.
      a. PROVIDE THERMOMETERS IN PIPING AS INDICATED ON THE DRAWINGS AND AT THE INLET AND OUTLET OF EACH HYDRONIC COIL, HEAT EXCHANGER AND PIECE OF EQUIPMENT THAT INVOLVES A DIFFERENTIAL TEMPERATURE.
      b. PROVIDE PRESSURE GAUGES IN PIPING AS INDICATED ON THE DRAWINGS AND AT SUCTION AND DISCHARGE OF EACH PUMP AND AT INLETS AND OUTLETS OF EACH HYDRONIC COIL, HEAT EXCHANGER AND PIECE OF EQUIPMENT THAT INVOLVES A DIFFERENTIAL PRESSURE.
   3. ALL PIPING TO BE VENTED AT HIGH POINTS AND PROVIDED WITH ASSOCIATED DRAIN VALVES AT LOW POINTS.
   4. PROVIDE CORE DRILLED OPENINGS WITH PIPE SLEEVES AT ALL SLAB AND SHAFT PENETRATIONS. PROVIDE FIREPROOFING AS REQUIRED TO MAINTAIN WALL, SHAFT AND SLAB FIRE RATINGS.
   5. PROVIDE WATERPROOF SLEEVES (LINK SEAL (LS) TYPE) AT ALL EXTERIOR WALL, FLOOR PENETRATIONS AND AS REQUIRED OR AS NOTED ON PLANS.
   6. PROVIDE LABELING OF ALL PIPING (BOTH EXPOSED AND CONCEALED) IN ACCORDANCE WITH ANSI STANDARDS AND COLOR CODED AS PER ANSI STANDARDS. LABELS SHALL SECURELY FASTENED TO PIPING WITH LETTERING OF SUFFICIENT SIZE FOR EASY IDENTIFICATION BY OPERATING PERSONNEL. LABELS SHALL BE PROVIDED WITH FLOW ARROWS, EVERY 30 FT FOR ALL PIPING.
   7. ALL PIPING TO BE MAINTAINED AT HIGHEST ELEVATIONS POSSIBLE SO AS NOT TO INTERFERE WITH EXISTING OPERATIONS AND SERVICE/MAINTENANCE REQUIREMENTS.

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THESE PLANS ARE INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF THE ENGINEER. INFRINGEMENT WILL BE PROSECUTED. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK.

NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL
STATE OF NEW YORK
JOSEPH A. LECCE
NO. 074949-1
LICENSED PROFESSIONAL ENGINEER

SCALE: 1=1	DATE: 08/03/2026	PROJECT NO.: #2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
MECHANICAL SPECIFICATIONS SHEET #1

DRAWING NO:
M-201

8. TESTING
   a. ALL PIPING SHALL BE HYDROSTATICALLY TESTED AT 1-1/2 TIMES THE OPERATING PRESSURE. SYSTEM SHALL HOLD PRESSURE FOR 24 HOURS, DURING WHICH TIME PIPING IS TO SHOW NO LEAKS. PIPING WHICH IS NOT TIGHT UNDER THE TESTS SHALL BE TAKEN DOWN AND REASSEMBLED. ALL TESTING SHALL BE DONE USING WATER AS A TEST MODEM.
   b. TESTS SHALL BE CONDUCTED AFTER COMPLETION AND ASSEMBLY OF PIPING SYSTEM, BEFORE ANY INSULATION OR PAINT IS APPLIED TO JOINTS, INCLUDING WELDS AND PRIOR TO MAKING THE SYSTEM OPERABLE. INSULATING MATERIALS INSTALLED PRIOR TO THE TESTS SHALL BE REMOVED.
   c. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY PIPING CONNECTIONS, TEES, VALVES, EQUIPMENT, AND LABOR TO PRESSURE TEST PIPING AND EQUIPMENT.
   d. EQUIPMENT THAT IS NOT TO BE SUBJECTED TO THE PRESSURE TEST SHALL BE EITHER DISCONNECTED FROM THE SYSTEM OR ISOLATED BY A BLANK OR SIMILAR MEANS. VALVES MAY BE USED FOR THIS PURPOSE PROVIDED THAT VALVE CLOSURE IS SUITABLE FOR THE PROPOSED TEST PRESSURE.
   e. SUBMIT TO THE ENGINEER AND OWNER REPRESENTATIVE A RECORD OF TEST PRESSURE APPLIED TO EACH PIPING SYSTEM.

WATER TREATMENT AND PIPE CLEANING:

A. NEW PIPING SYSTEMS SHALL BE ISOLATED, CLEANED AND CHEMICALLY TREATED WHEN THE INSTALLATION IS COMPLETED TO REMOVE ANY CONSTRUCTION DEBRIS AND PROVIDE CORROSION PROTECTION.
B. PROVIDE THE NECESSARY APPARATUS, COMPLETE WITH RELIEF VALVES, ISOLATING VALVES, CHECK VALVES, PIPING, POWER, WIRING, CHEMICALS, FEED TANKS, AND SERVICE TO PROVIDE PROPER WATER TREATMENT FOR THE CONTROL OF SCALE, CORROSION AND MICROBIOLOGICAL GROWTHS IN THE PIPING SYSTEMS. ALL CHEMICALS USED SHALL COMPLY WITH POLLUTION CONTROLS ESTABLISHED BY ALL AUTHORITIES HAVING JURISDICTION. CHLORATES SHALL NOT BE USED.
C. PIPE CLEANING
   1. FURNISH ALL REQUIRED PIPE CLEANING CHEMICALS, PORTABLE PUMPS, CHEMICAL FEED EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO CLEAN ALL PROJECT PIPING SYSTEMS.
   2. PROVIDE A PRE-STARTUP NON-FOAMING, LIQUID DETERGENT DISPERSANT CLEANER FOR CLEANING OF ALL SYSTEMS TO REMOVE OIL AND FOREIGN MATTER FROM THE PIPING AND EQUIPMENT PRIOR TO THE FINAL FILLING OF THE SYSTEMS. USE CHEMICAL THAT IS NOT INJURIOUS TO PERSONS, PIPING, PIPE JOINT COMPOUNDS, PACKING, COILS, VALVES, PUMPS AND THEIR MECHANICAL SEALS OR OTHER PARTS OF THE SYSTEM. AFTER FINAL FILL, PERFORM A CHEMICAL TEST TO TEST THAT THE PH OF THE NEW SYSTEM IS WITHIN 0.5 OF FRESH INCOMING WATER.
   3. PROVIDE ALL BYPASS PIPING AND VALVING TO ISOLATE ALL NEW EQUIPMENT (CHILLERS, COILS, ETC.) FROM THE CLEANING PROCESS.
   4. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY PIPING CONNECTIONS, TEES, VALVES, EQUIPMENT AND LABOR TO PERFORM PIPE CLEANING.

AUTOMATIC TEMPERATURE CONTROLS

A. GENERAL:
   1. FURNISH AND INSTALL AS HEREIN SPECIFIED, A COMPLETE AUTOMATIC TEMPERATURE CONTROL SYSTEM OF THE ELECTRONIC AS REQUIRED, MANUFACTURED BY THE BUILDINGS DEDICATED CONTROLS CONTRACTOR OR APPROVED EQUAL BY THE ENGINEER. MANUFACTURER SHALL BE SUBMITTED WITH BID AND APPROVED BY ENGINEER BEFORE BID AWARD. THE ATC CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR NOT AFFILIATED WITH THE MECHANICAL CONTRACTOR.
   2. ALL TEMPERATURE CONTROL SYSTEMS AND COMPONENTS UNDER THIS SUBCONTRACT ARE TO BE FULLY MODULATING TYPE, EXCEPT WHERE NOTED OTHERWISE. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS INCLUDING ALL ASSOCIATED CONTROL EQUIPMENT, THERMOSTATS, CONTROL VALVES, VALVE ACTUATORS, DAMPER OPERATORS, CONTROL WIRING, SWITCHES, INTERLOCK WIRING, ELECTRICAL CONTROL COMPONENTS AND ASSOCIATED WIRING, APPURTENANCES, ETC., TO PROVIDE THE FUNCTIONS DESCRIBED IN THESE SPECIFICATIONS AND PLANS, REGARDLESS OF WHETHER OR NOT SAID DEVICE RELAY, ETC., IS SPECIFICALLY MENTIONED HEREAFTER.
   3. THE SYSTEM SHALL BE SUPERVISED AND CHECKED OUT COMPLETELY IN ALL RESPECTS BY COMPETENT MECHANICS, REGULARLY EMPLOYED BY THE MANUFACTURER.
   4. ALL CONTROLS MUST BE THE PRODUCT OF ONE MANUFACTURER. ALL AUTOMATIC CONTROL VALVES, SENSORS AND DAMPER OPERATORS SHALL BE MANUFACTURED BY THE TEMPERATURE CONTROL MANUFACTURER.
   5. THE CONTROL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DESCRIPTION OF SYSTEM OPERATIONS AND/OR DETAIL INFORMATION SHOWN ON THE PLANS AND AS DESCRIBED HEREIN.
   6. THE MANUFACTURER OF THE AUTOMATIC CONTROL EQUIPMENT SHALL SUBMIT THE FOLLOWING FOR APPROVAL: A SCHEMATIC DIAGRAM OF EACH CONTROL SYSTEM WHICH SHALL INDICATE THE PROPER SEQUENCE OF OPERATION AND RANGE OF THE CONTROLS FOR ALL CYCLES. A COMPLETE DESCRIPTION OF THE AUTOMATIC OPERATION OF EACH SYSTEM. THE DESCRIPTION SHOULD INCLUDE THE DUTY OF EACH THERMOSTAT, VALVE, SWITCH, ETC., INCORPORATED IN THE CONTROL SYSTEM WITH A SCHEDULE AND ILLUSTRATION OF ALL CONTROL INSTRUMENTS AND EQUIPMENT INCLUDING CONTROL PANELS AND DEVICES FOR EACH SYSTEM.

B. ELECTRIC WIRING:
   1. ALL ELECTRICAL WORK (EXCEPT FOR MOTOR FEEDERS, WIRING BETWEEN MOTORS, MOTOR CONTROLLERS, FEEDER PANELS, FUSES, CIRCUIT BREAKERS AND BUS BARS) REQUIRED FOR THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THIS CONTRACTOR. WORK SHALL INCLUDE BUT NOT BE LIMITED TO TIME SWITCHES, DAMPER MOTORS, DAMPER SWITCHES, ELECTRIC THERMOSTATS, ELECTRIC RELAYS, INTERLOCKING WIRING, WIRE, CONDUIT, ETC.
   2. ALL 115 VOLT POWER REQUIRED FOR CONTROL PURPOSES SHALL BE PROVIDED BY THE CONTROL CONTRACTOR FROM A SOURCE ESTABLISHED BY THE ELECTRICAL CONTRACTOR.
   3. THE CONTROL MANUFACTURER SHALL INCLUDE WIRING DIAGRAMS IN HIS SHOP DRAWINGS SUBMITTALS FULLY COORDINATED WITH THE ELECTRICAL CONTRACTORS WORK. IT SHALL BE THE AUTOMATIC TEMPERATURE CONTROL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL WIRING AND CONDUIT AS REQUIRED TO ACHIEVE THE FUNCTION CALLED FOR IN THESE SPECIFICATIONS, CONFORMING WITH LOCAL CODES FOR MATERIAL AND INSTALLATION. THE ELECTRICAL SPECIFICATION FOR THE PROJECT ELECTRICAL WORK IS TO BE FOLLOWED.
   4. FURNISH A CERTIFICATE INDICATING METHOD OF WIRING COMPLIANCE WITH LOCAL CODES AS PART OF FIRST SHOP DRAWING SUBMITTAL.

C. ROOM THERMOSTAT AND SWITCH LOCATIONS:
   1. ALL ROOM THERMOSTATS AND SWITCH LOCATIONS (WHETHER SHOWN ON PLANS OR NOT) SHALL BE SELECTED AND SUBMITTED BY THE TEMPERATURE CONTROL MANUFACTURER FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ACTUAL INSTALLATION.

D. CONTROL PANELS:
   1. FURNISH AND INSTALL IN THE MECHANICAL ROOM, AS HEREIN SPECIFIED, CONTROL PANELS OF STEEL, WITH WELDED ANGLE IRON BRACKETS, FOR WALL OR FLOOR MOUNTING.
   2. THE BASIC BACKGROUND COLOR OF THE PANEL SHALL BE AS APPROVED BY THE ARCHITECT AND ENGINEER.
   3. PANELS SHOULD BE FULLY ENCLOSED, WITH HINGED LOCKING FRONT DOOR FOR EACH PANEL. THE PANEL SHALL CONTAIN ALL CONTROLLERS, RELAYS, SWITCHES, ETC. PROVIDE ENGRAVED NAMEPLATES TO LABEL THE CONTROLLED EQUIPMENT AND FOR EACH PANEL MOUNTED CONTROL DEVICE. PLASTIC LAMINATED CONTROL SCHEMATIC DRAWINGS FOR THE SYSTEM SHALL BE HUNG AT EACH LOCAL CONTROL PANEL.
   4. DETAILS OF EACH OF THESE PANELS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. LOCATIONS OF EACH PANEL ARE TO BE CONVENIENT FOR ADJUSTMENT AND SERVICE AND ALL SUCH LOCATIONS ARE TO BE APPROVED PRIOR TO INSTALLATION.

SEQUENCE OF OPERATIONS:

A. REFER TO M-501 DRAWING FOR ALL SEQUENCES OF OPERATIONS

SYSTEM COMMISSIONING

A. PRIOR TO FULL OPERATION, A COMPLETE DEMONSTRATION AND TESTING OF THE SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND ENGINEER. THIS TESTING SHALL TAKE PLACE AFTER HAVING SATISFACTORILY MET THE REQUIREMENTS OF SHOP DRAWING ACCEPTANCE. COMMISSIONING OF THE SYSTEMS SHALL BE SCHEDULED BEFORE SPACE IS OCCUPIED LEAVING ENOUGH TIME TO CORRECT SYSTEM DEFICIENCY'S AND AFTER SHOP DRAWING ACCEPTANCE. UPON SUCCESSFUL COMPLETION OF SYSTEM OPERATION, THE CONTRACTOR SHALL SUBMIT A STATEMENT STATING THAT THE FULL OPERATION OF ALL SYSTEMS, FUNCTIONS AND ALARMS HAS BEEN DEMONSTRATED AND ARE OPERATIONAL AS WELL AS A LISTING OF ALL SYSTEMS, ALARMS AND FUNCTIONS THAT HAVE BEEN COMMISSIONED. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE TO THE OWNER, OWNER'S REPRESENTATIVE AND ENGINEER BEFORE FINAL ACCEPTANCE CAN TAKE PLACE.

B. PROVIDE COMPLETE PRE-FUNCTIONAL AND FUNCTIONAL COMMISSIONING FOR THE FOLLOWING EQUIPMENT. PROVIDE ALL PRE-FUNCTIONAL AND FUNCTIONAL CHECKLISTS FROM MANUFACTURERS AND COMPLETELY FILL OUT ALL DATA BASED ON THE ACTUAL FIELD TESTING. CONTRACTOR TO PERFORM ALL TESTING WITH THE MANUFACTURER AND SHALL COMPLETE ALL DATA. DATA WILL BE USED FOR NYSERDA REBATES AND LEED CERTIFICATION. PROVIDE (8) COPIES OF ALL REPORTS, BINDED, TO OWNER.

C. PROVIDE COMPLETE PRE-FUNCTIONAL AND FUNCTIONAL TESTING FOR
   - BOILER #1
   - ALL CONTROLS

CU - UNIVERSAL CHIMNEY - ENERVEX EPS2 (2102)

SECTION 23 51 00

PART 1 - BREECHING, CHIMNEY & STACKS

1.1 SCOPE ALL-IN-ONE UNIVERSAL CHIMNEY SYSTEM

A. THE MANUFACTURER, ENERVEX, SHALL PROVIDE FACTORY-BUILT MODULAR UNIVERSAL CHIMNEY SYSTEM TESTED AND LISTED BY UNDERWRITERS LABORATORIES INC. (UL) FOR THE FOLLOWING LISTINGS:
   a. UL 2561 STANDARD, 1400°F CHIMNEY.
      i. 1400°F CONTINUOUS AND 1800°F INTERMITTENT.
      ii. GASEOUS, SOLID, OR LIQUID FUELS AS DESCRIBED IN NFPA 211.
   b. UL 103 STANDARD, BUILDING HEATING APPLIANCE CHIMNEY.
      i. 1000°F CONTINUOUS AND 1400°F INTERMITTENT.
      ii. GASEOUS, SOLID, OR LIQUID FUELS AS DESCRIBED IN NFPA 211.
   c. UL 103 ADDITIONAL POSITIVE PRESSURE TEST (60 INCHES W.C.)
   d. UL 1738 STANDARD, VENTING SYSTEMS FOR GAS-BURNING APPLIANCES, CATEGORIES II, III, AND IV.
      i. VENT SYSTEMS FOR USE WITH LISTED CATEGORY II, III, AND IV APPLIANCES.

B. THE BASIS OF DESIGN IS ENERVEX. ACCEPTABLE MANUFACTURERS ARE LIMITED TO JEREMIAS.

1.2 CONSTRUCTION

A. THE CHIMNEY SYSTEM SHALL BE CONSTRUCTED OF STAINLESS STEEL. THE MATERIALS AND CONSTRUCTION OF MODULAR SECTIONS AND ACCESSORIES SHALL BE AS SPECIFIED BY THE TERMS OF THE PRODUCT'S UL LISTING.
   a. THE INNER WALL MATERIAL SHALL BE 316L-PCM STAINLESS STEEL.
   b. THE OUTER JACKET MATERIAL SHALL BE 304 STAINLESS STEEL.
   c. THE INSULATION BETWEEN THE INNER WALL AND OUTER JACKET SHALL BE TWO-INCH-THICK CERAMIC FIBER INSULATION.
   d. THE ENTIRE CHIMNEY SYSTEM, INCLUDING ALL ACCESSORIES (CONNECTORS, HARDWARE, ANCHOR PLATE SUPPORTS, GUIDES, DRAINS, AND TERMINALS), SHALL BE STAINLESS STEEL.

B. THE CHIMNEY SYSTEM SECTIONS AND FITTINGS SHALL BE JOINED BY CLAMPING A U BAND OVER THE MATING MALE-FEMALE FLANGES OF ADJACENT COMPONENTS. THE MALE FLANGE CONNECTION SHALL HAVE AN INTEGRATED GRAPHITE SEAL. SILICONE GASKETS AND SILICONE SEALANT AT SECTION JOINTS ARE NOT ACCEPTABLE. ALL JOINTS SHALL HAVE MALE-FEMALE CONNECTIONS; CHIMNEY SYSTEMS WITHOUT MALE-FEMALE CONNECTIONS ARE NOT ACCEPTABLE. ALL TEES SHALL BE LATERAL (45°) TEES; BOOT TEES AND 90° TEES ARE NOT ACCEPTABLE.

C. THE CHIMNEY SYSTEM SHALL BE DESIGNED TO COMPENSATE FOR ALL TEMPERATURE INDUCED THERMAL EXPANSION, INSTALLED TO BE GASTIGHT, AND THUS PREVENT LEAKAGE OF COMBUSTION PRODUCTS INTO A BUILDING. THE CHIMNEY SYSTEM'S ADJUSTABLE LENGTHS SHALL BE RATED FOR 1400°F AND 60 INCHES W.C.

D. THE CHIMNEY SYSTEM IS BASED UPON ENERVEX MODEL EPS2.

E. DETAILED MANUFACTURER'S SUBMITTAL DRAWINGS SHALL BE PROVIDED FOR APPROVAL PRIOR TO INSTALLATION OF THE CHIMNEY SYSTEM.

PART 2 - EXECUTION

2.1INSTALLATION

A. WHEN INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CHIMNEY SYSTEM AND ITS SUPPORTING SYSTEM SHALL RESIST SIDE LOADS AT LEAST 1.5 TIMES GREATER THAN THE WEIGHT PER FOOT OF THE PIPING FOR BOTH HORIZONTAL AND VERTICAL PORTIONS OF THE SYSTEM.

B. THE CHIMNEY SYSTEM SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.

C. PROVIDE ALL MODULAR STRAIGHT SECTIONS, FITTINGS, SUPPORTS, GUIDES, EXPANSION JOINTS, GUY SECTIONS, GUY TENSIONERS, ROOF THIMBLES, ROOF FLASHINGS, STORM COLLARS AND STACK CAP TERMINATIONS AS REQUIRED TO PROVIDE A COMPLETE SYSTEM PER THE MANUFACTURER'S INSTRUCTIONS.

D. THE ENTIRE CHIMNEY SYSTEM FROM THE APPLIANCE OUTLET TO THE TERMINATION POINT, INCLUDING ALL ACCESSORIES, EXCEPT AS NOTED, SHALL BE FROM ONE MANUFACTURER.

E. THE VERTICAL TERMINATION SHALL BE NO LESS THAN TWO FEET ABOVE ANY PORTION OF THE BUILDING WITHIN TEN FEET OF THE STACK PENETRATION. FOLLOW ALL PERTINENT NATIONAL, STATE, AND/OR LOCAL CODES WHERE APPLICABLE.

F. ROOF PENETRATIONS SHALL BE SUITABLE FOR THE SPECIFIED ROOF CONSTRUCTION AND SHALL COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS.

PART 3 - WARRANTY

3.1 WARRANTY

A. THE CHIMNEY SYSTEM SHALL BE WARRANTED AGAINST FUNCTIONAL FAILURE DUE TO DEFECTS IN MATERIAL AND MANUFACTURER'S WORKMANSHIP FOR A PERIOD OF 15 YEARS FROM DATE OF INSTALLATION.

B. THE INNER DIAMETER OF THE CHIMNEY SYSTEM SHALL BE VERIFIED BY THE MANUFACTURER'S VENTING COMPUTATIONS. THE COMPUTATIONS SUBMITTED SHALL FOLLOW ASHRAE CALCULATION METHODS AND SHALL INCORPORATE THE SPECIFIC FLOW CHARACTERISTICS OF THE INNER PIPE. THE CONTRACTOR SHALL FURNISH THE EXACT OPERATING CHARACTERISTICS OF ALL APPLIANCES TO THE FACTORY REPRESENTATIVE.

C. THE MANUFACTURER SHALL PROVIDE "TO SCALE" DRAWINGS DEPICTING THE ACTUAL LAYOUT. THE CHIMNEY SYSTEM SHALL BE INSTALLED AS DESIGNED BY THE MANUFACTURER AND IN ACCORDANCE WITH THE TERMS OF THE MANUFACTURER'S WARRANTY.

D. THE CHIMNEY SYSTEM SHALL BE FURNISHED BY A VENDOR ORGANIZATION THAT ASSURES DESIGN, INSTALLATION AND SERVICES COORDINATION, AS WELL AS, PROVIDING "IN-WARRANTY" AND "POST-WARRANTY" UNIFIED RESPONSIBILITY FOR OWNER, ARCHITECT, CONSULTING ENGINEER AND CONTRACTOR.

PART 4 - PRODUCTS

4.1 MANUFACTURERS

A. PRODUCT SPECIFICATION REQUIREMENTS SHALL BE MET BY USING ENERVEX EPS2 OR EQUIVALENT AS APPROVED BY THE ENGINEER. CONTACT CHIMNEY DESIGN SOLUTIONS® AT 212-685-7077 OR 973-427-8600. EQUIVALENT SUBMITTALS SHALL SPECIFY MANUFACTURER'S MODEL NUMBER, OTHER PERTINENT IDENTIFICATION, AND ATTEST THAT THE ALTERNATE MATERIAL IS IN COMPLIANCE WITH ALL SPECIFICATION REQUIREMENTS.

END OF SECTION 23 51 00

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NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

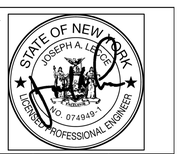
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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
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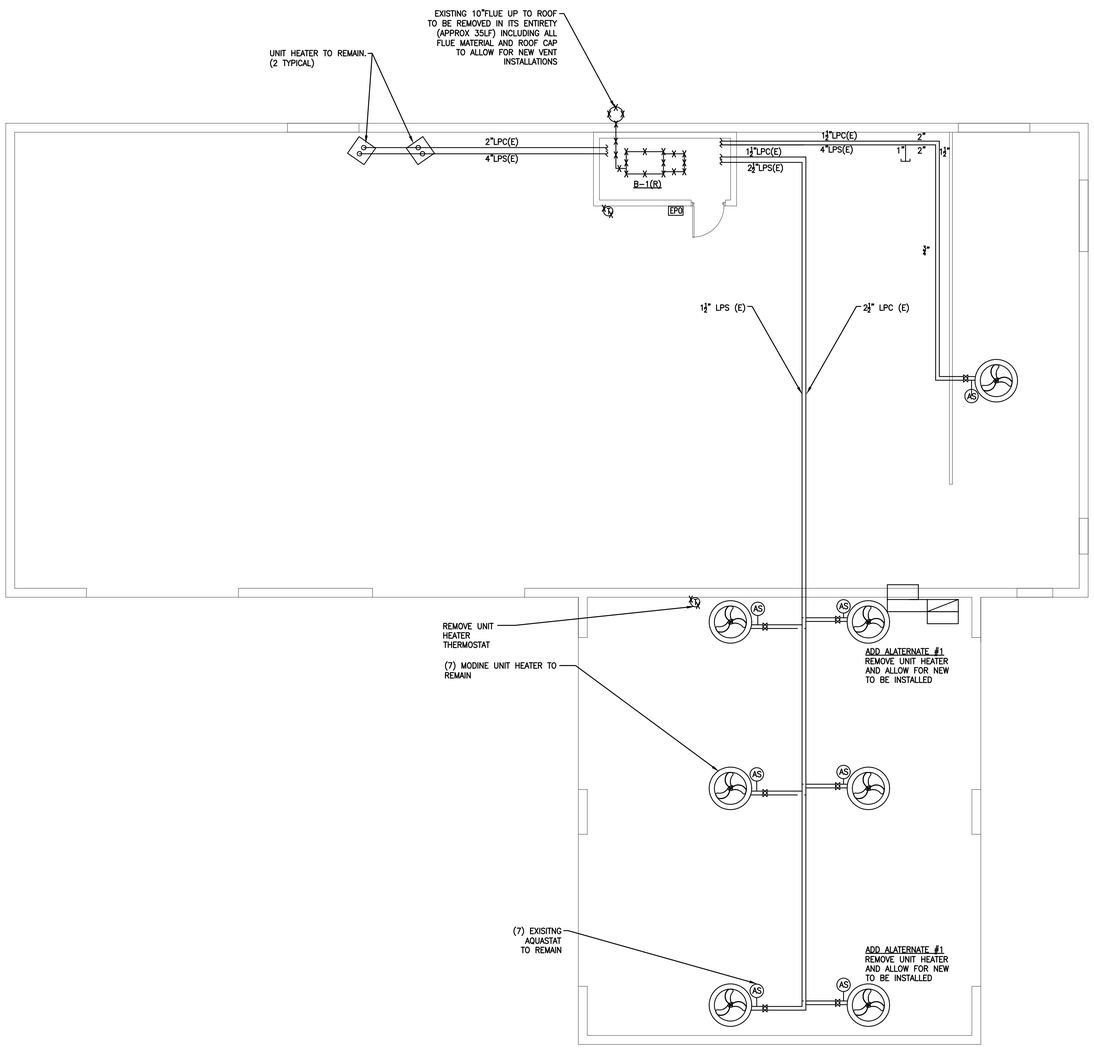
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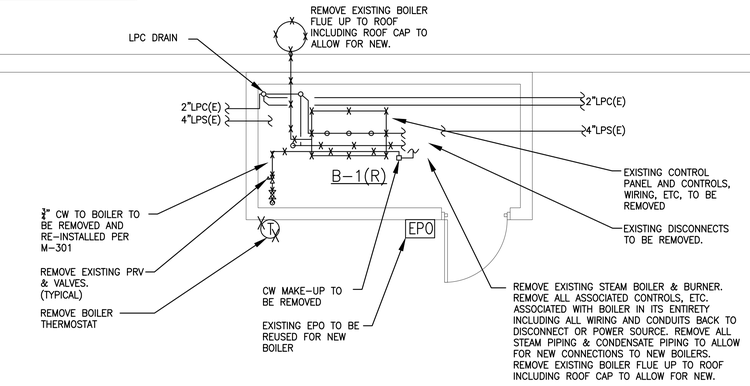
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MECHANICAL SPECIFICATIONS SHEET #2

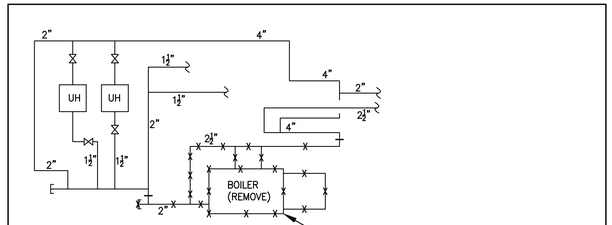
DRAWING NO:
M-202



EXISTING FUEL LINE TO REMAIN. DISCONNECT AND RECONNECT TO NEW BOILER UNIT.



DETAIL VIEW FOR BOILER ROOM



ONE LINE DIAGRAM FOR BOILER
N.T.S

GENERAL NOTES FOR DEMOLITION WORK

1. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A SEQUENCE WHICH ACCOMMODATES THE OWNER'S REQUIREMENTS FOR ACCESS AND USE OF THE SITE DURING OPERATIONS.
2. PROTECTION: PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT PROPERTY, PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO DEMOLITION WORK.
3. CONDUCT DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
4. ANY DEMOLITION OR REMOVALS THAT CAUSE EXCESSIVE NOISE AUDIBLE OUTSIDE THE PREMISES OR OTHERWISE CAUSE INCONVENIENCE TO OTHER TENANTS OR DISTURB THE BUILDING OPERATIONS MUST BE PERFORMED AFTER NORMAL WORKING HOURS OR ON WEEKENDS.
5. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION WORK TO THE APPROVAL OF THE OWNER AND AT NO COST.
6. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING RULES AND REGULATIONS. COORDINATE ALL SHUT DOWNS OF ANY BUILDING SYSTEMS WITH BUILDING MANAGEMENT.
7. ALL DEMOLITION WORK SHALL BE DONE DURING HOURS APPROVED BY BUILDING MANAGEMENT UNLESS OTHER WISED APPROVED IN WRITING BY BUILDING ENGINEER.
8. CONTRACTOR SHALL CLEAN AREA OF WORK AFTER COMPLETION OF DEMOLITION WORK. DEBRIS, DIRT, AND DUST ARE TO BE KEPT TO A MINIMUM, AND BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA; AND BE CLEANED UP AND CLEARED FROM BUILDING PERIODICALLY TO AVOID ANY EXCESS ACCUMULATION.
9. CONTRACTOR WILL LIMIT TO THE MINIMUM, THE AMOUNT OF DUST, DIRT, OR OTHER SUCH INCONVENIENCES CREATED TO ALL OTHER AREAS OF THE BUILDING.
10. TEMPORARY SHUT DOWN OF EXISTING SERVICES SHALL OCCUR ONLY WITH WRITTEN APPROVAL OF OWNER, AT TIMES NOT TO INTERFERE WITH NORMAL BUILDING OPERATIONS.
11. CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND REMOVAL INDICATED ON THE DRAWINGS OR NOTES AND AS MAY BE REQUIRED BY THE WORK. ALL WORK SHALL BE DONE CAREFULLY AND NEATLY IN A SYSTEMATIC MANNER.
12. ALL EXISTING SURFACES AND EQUIPMENT TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE AND SHALL MAKE REPAIRS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
13. NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. DEBRIS SHALL BE REMOVES BY THE CONTRACTOR AS THE JOB PROCEEDS. THE SITE SHALL BE LEFT BROOM CLEAN AT THE COMPLETION OF DEMOLITION. ALL EQUIPMENT REMOVED SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AS REQUIRED BY LEGAL REQUIREMENTS.
14. THE CONTRACTOR SHALL FILE ALL NECESSARY CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, PAY ALL FEES, OBTAIN ALL PERMITS AND PROVIDE ANY AND ALL BONDS REQUIRED BY ANY CITY AGENCY IN ORDER TO DO THE WORK HEREIN DESCRIBED.
15. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK AND THE ACCESS TO THIS SPACES HAS BEEN MADE, AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
16. ALL MATERIALS TO BE SAVED FOR RELOCATION SHALL BE STORED AT CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY CONTRACTOR AND OWNER.
17. MEANS OF EGRESS: ALL EXISTING MEANS OF EGRESS FOR TENANTS OF THE BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, ETC. MAINTAIN CONTINUITY FOR ALL EXIT AND EGRESS SIGNAGE THROUGHOUT THE WORK.

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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

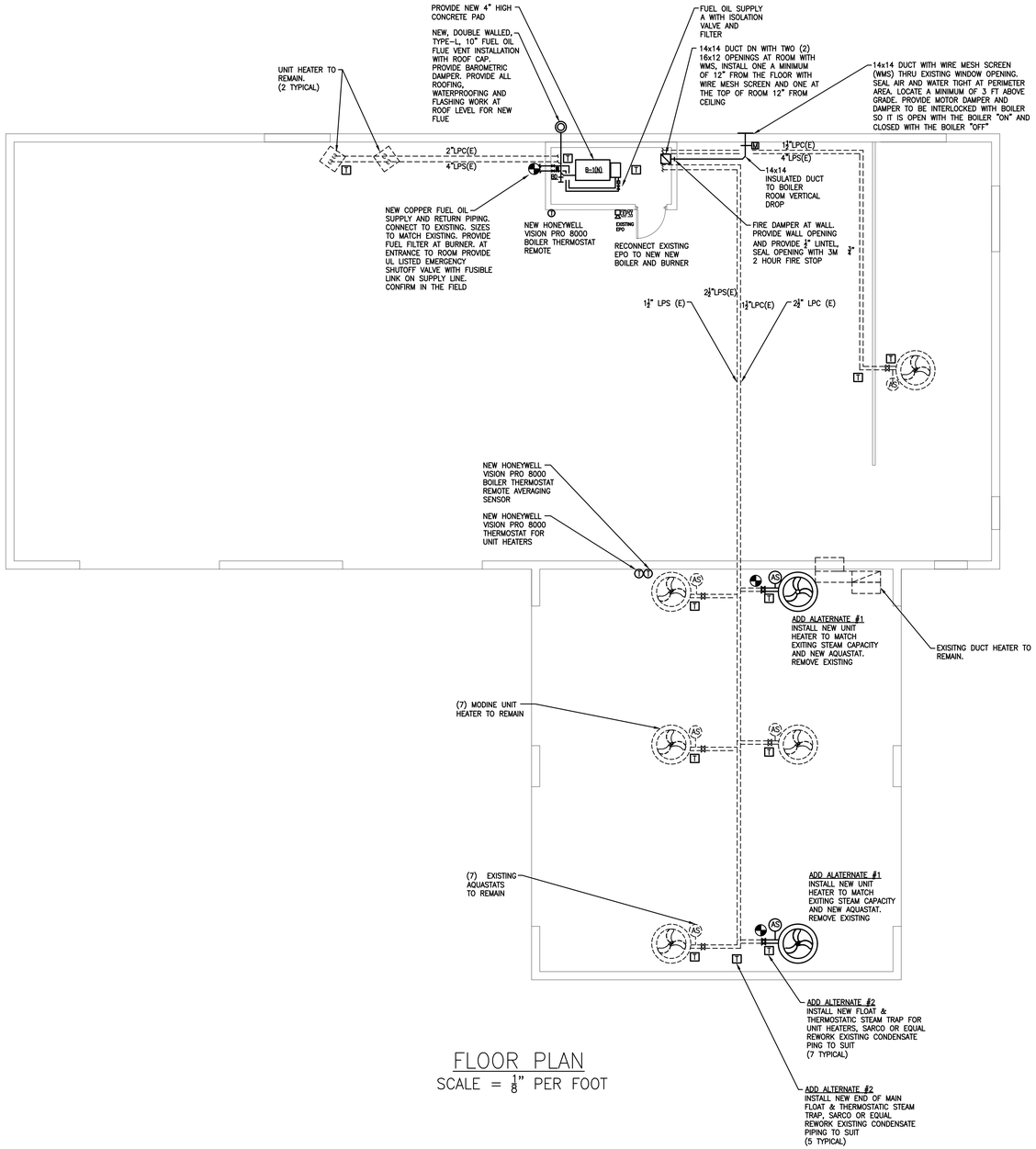
NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL
STATE OF NEW YORK · JOSEPH A. LECCE · LICENSED PROFESSIONAL ENGINEER · NO. 072949

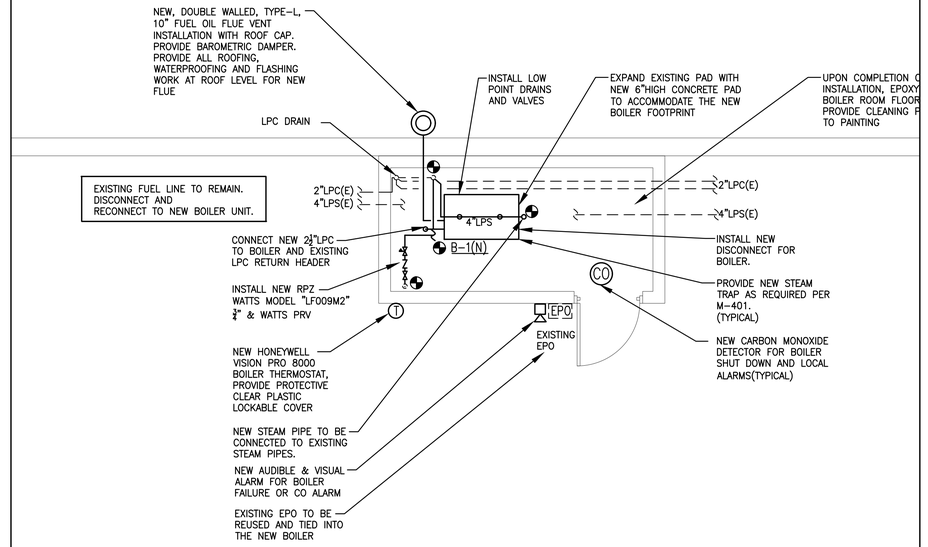
SCALE:	DATE:	PROJECT NO.:
1/4"=1'-0"	08/03/2026	#2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
MECHANICAL
BASEMENT BOILER ROOM
DEMOLITION WORK PLAN

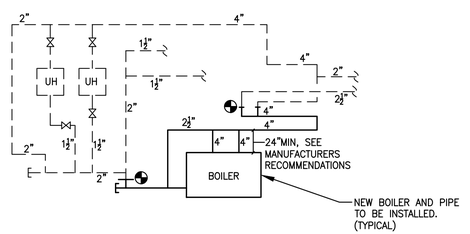
DRAWING NO:
M-300



FLOOR PLAN
SCALE = $\frac{1}{8}$" PER FOOT



PART PLAN FOR BOILER ROOM
SCALE = $\frac{1}{4}$" PER FOOT



ONE LINE DIAGRAM FOR BOILER
N.T.S

ADD ALTERNATE #2
INSTALL NEW FLOAT & THERMOSTATIC STEAM TRAP FOR UNIT HEATERS AND END OF STEAM MAIN RUNS, SARCO OR EQUAL
REWORK EXISTING CONDENSATE PIPING TO SUIT (14 TYPICAL)

ALL WORK TO BE INSTALLED SHALL CONFORM TO THE BUILDING STANDARDS FOR ALTERATIONS, CONSTRUCTION, AS PART OF THIS CONTRACT.

HVAC NOTES:

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL BUILDING RULES AND REGULATIONS.
2. ALL PIPING TO BE INSULATED PER NYS ENERGY CODE.
3. PROVIDE HILTI 2 HOUR FIRE STOPPING FOR ALL WALL PENETRATIONS THROUGH RATED WALLS.
4. ACCESS TO BE PROVIDED FOR NEW BOILER AND EQUIPMENT
5. ALL STEAM AND CONDENSATE PIPING TO BE STEEL WELDED. SEE SPECIFICATIONS FOR INFORMATION.
6. FOR ALL MASONRY PENETRATIONS USE 3M FIRE BARRIER MORTAR.

HEATING/COOLING LOAD CALCULATIONS

1. ALL HEATING AND COOLING LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH LATEST NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE BY APPLICATION OF ASHRAE 90.1
   - 2024 INTERNATIONAL ENERGY CONSERVATION CODE
   - 2016 ASHRAE 90.1
   - 2025 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE

ALL CALCULATIONS ARE IN ACCORDANCE WITH NYS ENERGY CODE SECTION C403.2.1

CODES:

1. NEW YORK STATE BUILDING CODE 2025
2. NEW YORK STATE MECHANICAL CODE 2025
3. NY STATE ENERGY CONSERVATION CODE 2025, BASED ON 2024 IECC
4. NEW YORK STATE FIRE CODES 2025

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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

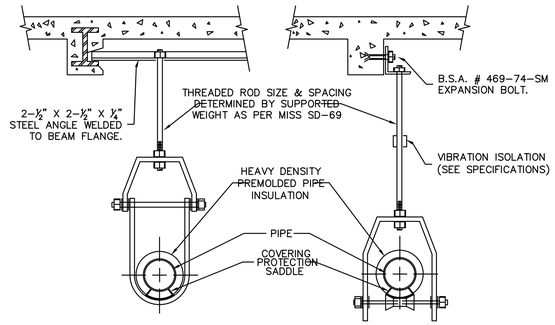
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STATE OF NEW YORK
JOSEPH A. LECCE
NO. 074949
LICENSED PROFESSIONAL ENGINEER

SCALE:	DATE:	PROJECT NO.:
AS NOTED	08/03/2026	#2026-087
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EB	JAL	JAL

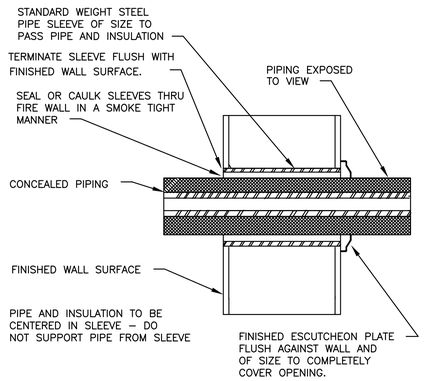
DRAWING TITLE:
MECHANICAL
BOILER ROOM
NEW WORK PLAN

DRAWING NO:
M-301

– PROVIDE SEISMIC SUPPORTS AS REQUIRED.

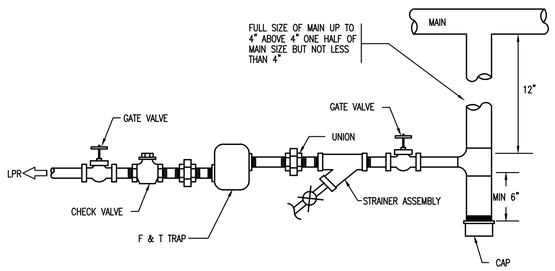


PIPE HANGING DETAIL



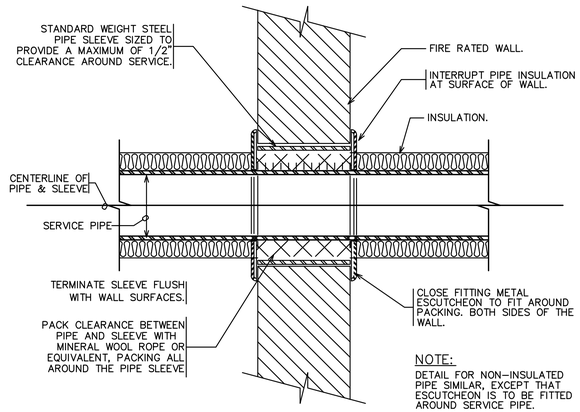
PIPE THRU INTERIOR WALL

NOT TO SCALE

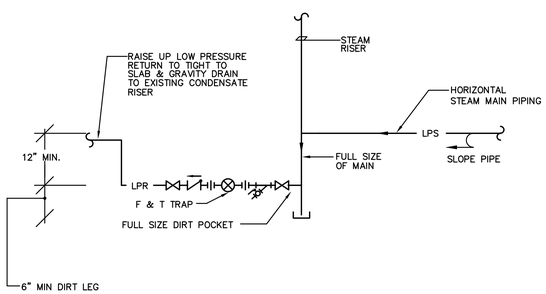


ADD ALTERNATE #2

LOW PRESSURE STEAM TRAP ASSEMBLY



FIRE RATED PIPE SLEEVE DETAIL



NOTES:

1. ALL NEW & EXISTING STEAM & CONDENSATE RETURN PIPING TO BE INSULATED W/2" THICK INSULATION, INCLUDING ALL FITTINGS.
2. STEAM PIPE TO BE STEEL, SCHEDULE 40, FITTINGS TO MATCH EXISTING.
3. CONDENSATE RETURN PIPING TO BE STEEL, SCHEDULE 80, WITH THREADED FITTINGS.

ADD ALTERNATE #2

LOW PRESSURE END–OF–MAIN STEAM TRAP

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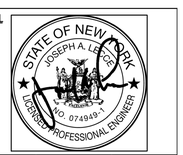
PROJECT:

PROPOSED BOILER REPLACEMENT

85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
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SEAL



SCALE:	DATE:	PROJECT NO.:
1=1	08/03/2026	#2026–087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
MECHANICAL
DETAILS
SHEET #1

DRAWING NO:

M-401

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A REGISTERED ARCHITECT OR A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ALTERATION TO THIS PLAN IS MADE, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145–SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

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GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND LOCAL BUILDING CODE, NFPA, UL, BUILDING MANAGEMENT RULES AND REGULATIONS AND NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
2. ALL WORK IS NEW UNLESS OTHERWISE NOTED. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL RECEPTACLES AND TELEPHONE/DATA OUTLETS, ETC., SHALL BE DETERMINED FROM THE ARCHITECT'S DRAWINGS, U.O.N.
3. FILE PLANS WITH THE BUILDING DEPARTMENT AND OBTAIN ALL PERMITS AND SIGNOFFS.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.
5. ELECTRIC PANEL COVERS ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS MEN ARE WORKING ON SAME. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.
6. FOR TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGERS SHALL UTILIZE C-TAP TERMINATIONS. LAMPHOLDERS SHALL HAVE LEFT HANDED SCREW SHELL LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED.
7. THIS CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS PILASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
8. UPON COMPLETION OF THE WORK, A SET OF 'AS-BUILT' DRAWINGS SHALL BE SUBMITTED. PROVIDE 'AS-BUILT' DRAWINGS ON DISK, AUTOCAD 2010 AND FULL SIZE PRINT DRAWINGS SHOWING ALL FEEDERS AND BRANCH CIRCUITS WIRE SIZE, CONDUIT, ACTUAL EQUIPMENT/DEVICES CIRCUIT NUMBERING OF ALL ELECTRICAL WORK AS ACTUALLY INSTALLED. CADD BACKGROUNDS TO BE SUPPLIED BY ARCHITECT.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO ARCHITECT/ENGINEER UPON COMPLETION OF WORK.

TELEPHONE & ELECTRIC NOTES:

1. ALL ELECTRICAL AND DATA/PHONE WALL OUTLETS SHALL BE MOUNTED AT 18" A.F.F. PER A.D.A. REQUIREMENTS OR AS STATED ON ARCHITECTURAL DRAWINGS/SPECIFICATIONS. ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL TAKE PRESIDENCE.
2. ALL LIGHTS SWITCHES AND THERMOSTATS SHALL BE MOUNTED @ 48" A.F.F. PER A.D.A. REQUIREMENTS OR AS STATED ON ARCHITECTURAL DRAWINGS/SPECIFICATIONS. ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL TAKE PRESIDENCE.
3. COMPLY WITH LOCAL AND STATE CODES FOR INSTALLATION OF ELECTRICAL WIRING AND ASSOCIATED DEVICES
4. REFER TO THE ARCHITECTURAL FINAL DRAWINGS FOR EXACT LOCATION OF DEVICES.

REFLECTED CEILING NOTES:

1. ALL EMERGENCY LIGHTING AND EXIT SIGN PER LOCAL AND STATE CODES.
2. SUBMIT TO ARCHITECT & MEP ENGINEER FOR APPROVAL (3) COPIES OF LIGHT FIXTURE SPECS. FOR REVIEW & APPROVAL PRIOR TO ORDERING.
3. PREPARE COORDINATED SHOP DRAWINGS WITH THE MECHANICAL SYSTEM, SPRINKLER SYSTEM, FIRE ALARM SYSTEM, PLUMBING, LIGHTING PLANS (RCP) & ELECTRICAL & SUBMIT (3) COPIES TO MEP ENGINEER FOR REVIEW. PRIOR TO COMMITMENT OF WORK.
4. REFEER TO ARCHITECTURAL FINAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES

SHOP DRAWINGS

1. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT, LAYOUTS, & CONDUIT LAYOUTS. ALL SHOP DRAWINGS ARE TO BE FULLY COORDINATED WITH ALL INSTALLING TRADES PRIOR TO SUBMITTAL. NO WORK SHALL BE INSTALLED PRIOR TO REVIEW AND ACCEPTANCE OF SHOP DRAWINGS BY ENGINEER AND CLIENT. ALLOW FOR (5) BUSINESS DAY TURN-AROUND FOR ALL SUBMITTALS. SUBMIT (3) HARD COPIES FOR REVIEW.

ELECTRICAL ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ASYM	ASYMMETRICAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CLOS	CLOSET
CO	CONDUIT ONLY
CONT	CONTINUATION
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL BOARD
DWG	DRAWING
EA	EACH
EC	ELECTRIC CLOSET
ELEC	ELECTRICAL
EMER, EM	EMERGENCY
EQUIP	EQUIPMENT
EXT	EXTERIOR
F	FUSE
FA	FIRE ALARM
FBO	FURNISHED BY OTHER
FCU	FAN COIL UNIT
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FT	FEET OR FOOT
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
IC	INTERRUPTING CAPACITY
INC	INCANDESCENT
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE
PB	PULL BOX
PH or ø	PHASE
PHT	PIPE HEAT TRACING SYSTEM
PNL	PANEL
PWR	POWER
RECEPT	RECEPTACLE
REF	REFRIGERATOR
REQ	REQUIRED
RM	ROOM
SECT	SECTION
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SW	SWITCH
SYM	SYMMETRICAL
TBD	TO BE DETERMINED
TEL	TELEPHONE
TS	TAMPER SWITCH
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UH	UNIT HEATER
UNF	UNFUSED
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
W	WATT
WF	WATER FLOW SWITCH
WP	WEATHERPROOF

ELECTRICAL SYMBOLS

$_T$ LOCAL MECHANICAL SWITCH WITH THERMAL OVERLOAD PROTECTION

M NEW MOTOR (MECHANICAL EQUIPMENT) WITH LOCAL DISCONNECT

UNFUSED DISCONNECT FOR EQUIPMENT, 3-POLE, 30 AMP UNLESS OTHERWISE NOTED

FUSED DISCONNECT FOR EQUIPMENT, 3-POLE, 30 AMP UNLESS OTHERWISE NOTED

NEW 120V- 20 AMP FLUSH FLOOR MOUNTED POKE-THROUGH DEVICE WITH DUPLEX RECEPTACLE

NEW CIRCUIT HOMERUN. NUMBER OF ARROWS DESIGNATES # CIRCUITS
NUMERALS INDICATES CIRCUIT NUMBERS

ELECTRICAL DEMOLITION NOTES

A. FOR NUMBER OF LIGHTING FIXTURES AND DEVICES TO BE REMOVED AND OR RELOCATED SEE ARCHITECTURAL DEMOLITION DRAWINGS.

B. FOR HVAC EQUIPMENT TO BE REMOVED SEE HVAC DRAWINGS.

EXISTING CONDUIT

A. THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.

EXISTING ELECTRICAL PANELS

A. CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS AND CIRCUIT BREAKERS. CAREFULLY STORE ALL PANEL COVERS AS CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE USABLE PANEL INSTALLATION.

B. CONTRACTOR SHALL PULL OUT ALL WIRING AND REMOVE ALL CONDUIT.

MECHANICAL AND PLUMBING EQUIPMENT

A. FOR PLUMBING AND MECHANICAL EQUIPMENT TO BE REMOVED SEE PLUMBING AND MECHANICAL DRAWINGS.

B. FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.

TEMPORARY LIGHTING AND POWER:

A. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT.

B. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDIITIONS AT ALL TIMES.

C. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.

D. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.

E. TEMPORARY MAINTAINANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE NORMAL WORK DAY.

F. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

ELECTRICAL DRAWING LIST

DRAWING NUMBER	DRAWING TITLE
E-001	ELECTRICAL – SYMBOLS, NOTES AND DRAWING LIST
E-201	ELECTRICAL – SPECIFICATIONS
E-301	ELECTRICAL – BOILER ROOM ELECTRICAL PLAN

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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL

STATE OF NEW YORK · JOSEPH A. LECCE · 073949 · LICENSED PROFESSIONAL ENGINEER

SCALE: 1=1	DATE: 08/03/2026	PROJECT NO.: #2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
ELECTRICAL
SYMBOLS & NOTES

DRAWING NO:
E-001

ELECTRICAL SPECIFICATION

PART 1 – GENERAL:

1.1 SCOPE OF WORK:

FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR THE COMPLETE INSTALLATION OF ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

A. INSTALLATION OF ELECTRICAL DISTRIBUTION EQUIPMENT.

B. INSTALLATION OF LIGHT FIXTURES AND LAMPS INCLUDING EXIT AND EMERGENCY LIGHTING.

C. INSTALLATION OF WALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.

D. INSTALLATION OF RACEWAY AND CONDUCTORS FOR LIGHTING AND POWER.

E. CUTTING, CHANNELLING AND CHASING REQUIRED TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL WORK AND ROUGH PATCHING.

F. INSTALLATION OF HVAC POWER WIRING AND FINAL CONNECTIONS TO HVAC EQUIPMENT.

G. INSTALLATION OF CONDUIT, JUNCTION BOXES, PULL BOXES, ETC. REQUIRED FOR THE AFOREMENTIONED EQUIPMENT.

H. JUNCTION BOX AND EMPTY CONDUIT FOR SECURITY AND TELECOMMUNICATIONS SYSTEMS.

I. TEMPORARY LIGHT AND POWER DURING CONSTRUCTION.

J. GROUNDING OF ALL EQUIPMENT AS REQUIRED BY CODE.

K. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES.

1.2 INTERPRETATION OF DOCUMENTS:

A. AS USED IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITIONS OF OTHER DOCUMENTS GOVERNING THE ELECTRICAL WORK.

1. "ELECTRICAL CONTRACTOR," "THIS CONTRACTOR," – THE PARTY OR PARTIES WHO HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE ELECTRICAL WORK AS DESCRIBED HEREIN.

2. "EQUAL," "SATISFACTORY," "ACCEPTED," "ACCEPTABLE" "EQUIVALENT" – ACCEPTABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION.

3. "THE ELECTRICAL WORK," "THIS WORK" – ALL LABOR MATERIALS, EQUIPMENT APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE ELECTRICAL CONTRACTOR.

4. "FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE ELECTRICAL WORK.

5. "INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE ELECTRICAL WORK.

6. "PROVIDE" – "FURNISH" AND "INSTALL."

7. "NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.

1.3 GENERAL REQUIREMENTS:

A. THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF NEW YORK STATE ELECTRICAL CODE, STANDARD OF THE NATIONAL BOARD OF UNDERWRITERS, OSHA AND ALL AUTHORITIES HAVING JURISDICTION. WORK SHALL ALSO COMPLY WITH APPLICABLE BUILDING RULES AND THE REGULATIONS. BUILDING RULES AND REGULATIONS WHERE MORE STRINGENT THAN THIS SPECIFICATION, SHALL TAKE PRECEDENCE OVER THE SPECIFICATION UNLESS OTHERWISE NOTED. THIS CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF THE REGULATIONS PRIOR TO SUBMISSION OF BID. THE CONTRACTOR SHALL SECURE ALL CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.

B. THE CONTRACTOR SHALL EXAMINE CAREFULLY THE ENTIRE ARCHITECTURAL AND ENGINEERING DRAWING PACKAGE TO BECOME FAMILIAR WITH THE EXTEND OF WORK AND POTENTIAL DIFFICULTIES AND COORDINATION WITH OTHER TRADES THAT WILL AFFECT THE EXECUTION OF THIS WORK. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. THIS WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

C. UPON REVIEW OF ELECTRICAL DRAWINGS AND PRIOR TO SUBMITTING HIS PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES OR REQUEST CLARIFICATION, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION. WHERE ANY INFORMATION OR DIRECTION IS CONFLICTING BETWEEN THIS SPECIFICATION AND THE DRAWINGS OR BETWEEN DIFFERENT SPECIFICATION SECTIONS, OR BETWEEN DIFFERENT DRAWINGS AND CLARIFICATION CANNOT BE OBTAINED, THE MORE EXPENSIVE AND STRINGENT REQUIREMENT OR DIRECTION SHALL BE ADHERED TO. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD THIS PROCEDURE NOT BE FOLLOWED.

D. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE.

PART 2 – PRODUCTS

2.1 PANELBOARDS:

A. PANELBOARD BOX SHALL BE MADE OF SHEET STEEL "BENT-UP" OR RIVETED OR BOLTED TOGETHER WITH EXTERIOR ANGLE IRON FRAME. BOX SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER AT LEAST 5-3/4" IN WIDTH ENTIRELY SURROUNDING EACH SECTION OF BOARD. INCREASE SIZE TO ACCOMMODATE FEEDER SIZE. PANELBOARDS SHALL BE SURFACE OR FLUSH TYPE AS NOTED ON THE DRAWINGS. PANEL BOXES SHALL BE GIVEN TWO COATS OF GREY ENAMEL

B. PROVIDE CODE GAUGE STEEL DOORS AND TRIMS FOR ALL PANELBOARD BOXES.

C. TRIMS SHALL BE ATTACHED DIRECTLY TO BOX BY A FULL LENGTH PIANO HINGE. PROVIDE LOCKS AND KEYS.

D. PANEL BUS BARS SHALL BE COPPER PROPORTIONED FOR A CURRENT DENSITY OF 1000 AMPERES PER SQUARE INCH OF CROSS-SECTIONAL AREA. PROVIDE A COPPER GROUND BAR IN EACH PANEL. PROVIDE AN ISOLATED GROUND BAR IN PANELS AS INDICATED ON PANEL SCHEDULES.

E. A TYPEWRITTEN LIST OF CIRCUITS SHOWING CLEARLY THE LOADS SUPPLIED BY EACH CIRCUIT SHALL BE INSTALLED ON THE INSIDE OF EACH PANELBOARD DOOR. THIS LIST SHALL BE MOUNTED IN A STEEL FRAME UNDER A PLASTIC WINDOW. EACH PANEL SHALL BE EXTERNALLY TAGGED WITH PERMANENT LAMACOID PLATE INDICATING PANEL IDENTIFICATION AND VOLTAGE.

F. PHASE LEGS OF ALL PANELS SHALL BE BALANCED AT SUPPLY POINT. ANY PANEL FOUND WITH UNBALANCED LOADS SHALL HAVE ITS CIRCUITS REARRANGED AS REQUIRED TO BALANCE PHASE LEGS WITHIN 10%.

G. PANELS SHALL BE AS MANUFACTURED BY GE OR EQUAL.

2.3 CIRCUIT BREAKERS:

A. CIRCUIT BREAKERS SHALL BE BOLTED TO THE PANELBOARD BUS BARS. WHERE CIRCUIT BREAKERS ARE INSTALLED IN EXISTING PANELBOARDS. BREAKERS SHALL BE OF THE SAME MANUFACTURER AND BE COMPATIBLE WITH EXISTING PANELBOARD.

B. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK WITH NON-WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/208V PANELS AND 25,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTED.

C. CIRCUIT BREAKERS SHALL BE OF THE "THERMAL-MAGNETIC" TYPE HAVING A BIMETALLIC ELEMENT FOR TIME DELAY OVERLOAD PROTECTION AND A MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.

D. THE CIRCUIT BREAKER SHALL BE CONTAINED IN AN INDIVIDUAL CASE ENCLOS-ING ONLY THE NUMBER OF POLES REQUIRED FOR THE PARTICULAR BREAKER.

E. ANY CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION SHALL BE DESIGNATED AS SPARE ON PANELBOARD DIRECTORIES.

F. CIRCUIT BREAKERS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC OR EQUAL.

2.2 DISCONNECT SWITCHES:

A. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES SHALL BE "QUICK-MAKE, QUICK-BREAK," HEAVY DUTY TYPE IN NEMA 1 ENCLOSURES FUSED OR UNFUSED AS INDICATED ON THE DRAWINGS. PROVIDE ALL FUSES AS REQUIRED. PROVIDE WEATHERPROOF DISCONNECT SWITCHES WHERE INSTALLED OUTDOORS OR AS INDICATED ON DRAWINGS.

B. DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC OR EQUAL.

2.4 RACEWAYS:

A. ALL WIRES SHALL BE RUN IN CONDUIT AS SPECIFIED HEREINAFTER, EACH LENGTH OF CONDUIT SHALL BEAR THE MAKER'S TRADEMARK OR STAMP. THE PLANS INDICATE THE GENERAL LOCATION OF OUTLET BOXES AND CIRCUITING. THE CONDUIT RUNS FOR THESE CIRCUITS MAY BE MODIFIED AT THE TIME OF INSTALLATION TO ADAPT SAME TO BUILDING CONSTRUCTION.

B. FOR ALL SIZES OF CONDUIT LARGER THAN 1-1/2", USE STANDARD ELBOWS; IN SMALLER SIZES, FIELD BENDS WILL BE PERMITTED INSTEAD OF USING MANUFACTURED ELBOWS BUT CARE MUST BE TAKEN NOT TO DAMAGE THE CONDUIT. THE RADIUS OF THE INNER CURVE OF ANY BEND SHALL NOT BE ANY LESS THAN THAT PERMITTED BY CODE.

C. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AND HANGERS, SUPPORTS OR FASTENINGS SHALL BE PROVIDED AT EACH ELBOW AND AT EACH ND OF EACH STRAIGHT RUN TERMINATED AT A BOX OR CABINET. WHERE RISER CONDUITS PIERCE FLOOR SLABS, THEY SHALL REST ON EACH FLOOR WITH APPROVED BEAM CLAMPS, PIPE STRAPS OR HEAVY IRON TIES WIRED TO THE STRUCTURAL MEMBERS SUPPORTING EQUIPMENT. SIZE AND TYPE OF ANCHOR SHALL BE BASED ON THE COMBINED WEIGHTS OF CONDUIT, HANGER AND CABLES. ALL HANGERS AND RODS SHALL BE PAINTED WITH ONE COAT OF ENAMEL.

D. INSTALL CONDUIT EXPANSION FITTINGS IN EACH CONDUIT RUN WHEREVER IT CROSSES AN EXPANSION JOINT AND WHEREVER THE CONDUIT LENGTH EXCEEDS 200 FEET. EXPANSION FITTINGS AS MANUFACTURED BY OZ/GEDNEY.

E. RUNNING THREADS SHALL NOT BE USED. WHERE CONDUIT WITH TAPERED THREADS CANNOT BE COUPLED WITH STANDARD CONDUIT COUPLINGS, O.Z./GEDNEY SPLIT COUPLINGS, OR ERICKSON COUPLINGS SHALL BE USED.

F. LAY OUT AND INSTALL ALL CONDUIT RUNS TO AVOID PROXIMITY TO STEAM AND HOT WATER PIPES. DO NOT RUN CONDUIT WITHIN THREE INCHES OF SUCH PIPES EXCEPT WHERE CROSSINGS ARE UNAVOIDABLE, THEN THE CONDUIT SHALL BE KEPT AT LEAST 1 INCH FROM THE COVERING OF THE PIPE CROSSING.

G. FEEDERS SHALL BE RUN IN ELECTRICAL METALLIC TUBING (EMT), U.O.N. ARMORED CABLE TYPE AC MAY BE UTILIZED FOR BRANCH CIRCUITS RUN ABOVE HUNG CEILING AND CONCEALED IN PARTITIONS. FINAL CONNECTIONS TO MOTORS, LIGHT FIXTURES, ETC. MAY BE DONE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN SIX FEET). OUTDOOR WIRING METHOD SHALL BE GALVINAZED RIGID STEEL STEEL CONDUIT WITH COMPRESSION FITTINGS.

H. ELECTRIC METALLIC TUBING SHALL BE INDUSTRY STANDARD THIN WALL CONDUIT, EMT SHALL BE HOT DIPPED GALVANIZED STEEL ONLY. IT SHALL NOT BE LESS THAN 3/4" TRADE SIZE. IT SHALL BE USED FOR TRADE SIZE UP TO 4" UNLESS OTHERWISE NOTED.

I. FLEXIBLE METALLIC CONDUIT SHALL BE OF THE GROUNDING TYPE. IT SHALL CONSIST OF GALVANIZED STEEL TAPS FORMED INTO AN INDUSTRY STANDARD INTERLOCKING COIL. IT SHALL NOT BE LESS THAN 3/4" TRADE SIZE.

L. EMPTY CONDUIT FOR NEW TELEPHONE AND DATA OUTLETS IN PARTITIONS SHALL BE 3/4" (U.O.N.) THIN WALL RUN CONCEALED IN WALLS, TERMINATED AND BUSHED 6" WITHIN ACCESSIBLE WALL. FURNISH DRAG LINE.

M. RACEWAY SHALL BE MANUFACTURED BY NATIONAL WIRE PRODUCTS, TRIANGLE OR REPUBLIC.

2.5 WIRE AND CABLE:

A. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.

B. THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120 VOLT CIRCUITS OVER 100' IN LENGTH SHALL BE NO. 10 AWG.

C. RECESSED LIGHTING FIXTURES FOR HUNG CEILING APPLICATIONS SHALL BE SUPPLIED WITH TYPE THHN INSULATED WIRE IN FLEXIBLE METALLIC CONDUIT, IN LENGTH NOT TO EXCEED 6 FEET FROM ADJACENT JUNCTION BOXES.

D. UNLESS SPECIFIED OTHERWISE, ALL WIRES #10 AWG AND SMALLER SHALL BE SOLID, CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.

E. FACTORY COLOR CODING SHALL BE AS FOLLOWS:
120/208 VOLT SYSTEM: PHASE 'A' – BLACK, PHASE 'B' – RED, PHASE 'C' – BLUE, NEUTRAL – WHITE , EQUIPMENT GROUND – GREEN.
277/480 VOLT SYSTEM: PHASE 'A' – YELLOW, PHASE 'B' – BROWN, PHASE 'C' – ORANGE, NEUTRAL – GRAY, EQUIPMENT GROUND – GREEN.

F. INSTALL AND CONNECT COMPLETE CONDUCTORS FOR ALL CIRCUITS AND WIRING SYSTEMS (NOT MORE THAN A SINGLE 3 CIRCUIT HOMERUN IN A CONDUIT) UNLESS OTHERWISE NOTED.

G. NO CONDUCTORS SHALL BE PULLED INTO ANY CONDUIT RUN BEFORE ALL CONDUIT JOINTS ARE MADE UP TIGHTLY, AND THE ENTIRE RUN IS SECURED IN PLACE. WHEN REQUIRED TO EASE THE PULLING OF WIRES INTO CONDUIT, USE POWDERED SOAPSTONE OR APPROVED EQUAL BY THOMAS AND BETTS.

H. TAG ALL FEEDERS IN ALL PULL BOXES, GUTTER SPACES, AND WIREWAYS THROUGH WHICH THEY PASS.

I. LEAVE ALL WIRES WITH SUFFICIENT SLACK AT TERMINAL ENDS FOR CONVENIENT CONNECTIONS TO DEVICES AND FOR CONVENIENT SERVICING.

J. MAKE SPLICES IN FEEDER TAPS IN PANEL BOX GUTTERS WITH PRESSURE TYPE CONNECTORS – BURNDY, OR O.Z./GEDNEY WITH COMPOSITION INSULATION COVERS.

K. SPLICES IN BRANCH WIRING SHALL BE TWISTED AND MADE MECHANICALLY TIGHT; THEN SECURED WITH 3M, SCOTCHLOCK OR THOMAS AND BETTS PIGTAIL CONNECTORS, CRIMP TYPE CONNECTORS SHALL NOT BE USED.

L. SUPPORT CONDUCTORS IN VERTICAL RACEWAYS AT THE TOP OF ANY RACEWAY LONGER THAN 20 FEET. INCLUDE ADDITIONAL SUPPORTS SPACED AT INTERVALS WHICH ARE NOT GREATER THAN 40 FEET. SUPPORT SHALL BE O.Z./GEDNEY TYPE R.

M. WIRE AND CABLE SHALL BE MANUFACTURED BY ROME CABLE CORP., PHELPS DODGE, GENERAL CABLE, SIMPLEX, GENERAL ELECTRIC OR ANACONDA.

2.6 DEVICES:

A. WIRING DEVICES SHALL BE SPECIFICATION GRADE UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. COLOR AS SELECTED BY ARCHITECT. DEVICES SHALL BE LEVITON DECORA SERIES, U.O.N.

B. SINGLE POLE SWITCHES SHALL BE 120/277 VOLTS, RATED AT 20 AMPERES, QUIET OPERATION TYPE. FINISH OF TOGGLE AND DEVICE PLATE AS DIRECTED BY ARCHITECT.

C. THREE WAY SWITCHES SHALL BE 120/277 VOLT, 20 AMPERES.

D. SWITCH AND RECEPTACLE PLATES SHALL BE PLUMB AND SHALL FIT FLAT AGAINST THE WALL.

E. ALL SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS SHALL BE TAKEN FROM ARCHITECT'S DRAWING UNLESS OTHERWISE NOTED.

F. MULTIPLE DEVICES AT A COMMON LOCATION SHALL BE INSTALLED IN A COMMON MULTIGANG BOX WITH A COMMON FACEPLATE. DERATE DIMMER SWITCHES PER MANUFACTURER'S REQUIREMENTS WHEN GANGED.

2.7 PULLBOXES, JUNCTION BOXES AND OUTLET BOXES:

A. PULLBOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD GAUGE SHEET STEEL.

B. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.

C. PULLBOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.

D. SWITCH, RECEPTACLE AND WALL OUTLET BOXES SHALL BE A NOMINAL 4 INCH SQUARE, 1-1/2 INCH OR 2-1/8 INCH DEEP AS REQUIRED BY CODE WITH A RAISED COVER, UNLESS OTHERWISE INDICATED ON THE DRAWING. PROVIDE 3/8 INCH FIXTURE STUD AS REQUIRED. GANGED OUTLET BOXES SHALL BE SUFFICIENT LENGTH TO SUIT CONDITIONS.

E. LIGHTING FIXTURE BOXES SHALL BE 4 INCH OCTAGON WITH 3/8 INCH FIXTURE STUD. FOR SUSPENDED CEILING WORK, PROVIDE A 4 INCH OCTAGON BOX WITH REMOVABLE BACKPLATE WHERE REQUIRED.

F. INCLUDE ALL REQUIRED JUNCTION/PULL BOXES AND OUTLET BOXES REGARDLESS OF INDICATIONS ON THE DRAWINGS (WHICH DUE TO SYMBOLIC METHODS OF NOTATION, MAY NOT SHOW ALL THAT ARE ACTUALLY REQUIRED).

G. WHERE BOXES HAVE ANY SINGLE HORIZONTAL DIMENSION LARGER THAN 36", THEY SHALL BE FITTED WITH CABLE SUPPORT RACKS CONSISTING OF 3/4" DIAMETER STEEL PIPES WITH FLANGED ENDS BOLTED TO THE SIDES OR FRAME OF THE PULL BOXES. EACH PIPE SUPPORT SHALL BE FITTED WITH A CONTINUOUS FIBER INSULATING SLEEVE. THE PIPE SUPPORTS SHALL BE ARRANGED IN TIERS CORRESPONDING TO THE CABLES ENTERING AND LEAVING THE BOX. SUFFICIENT PIPE SUPPORT RACKS WILL BE INCLUDED WITH THE PULL BOX SO THAT NO CABLE SHALL REMAIN UNSUPPORTED FOR A HORIZONTAL DISTANCE GREATER THAN 36". IN NO CASE SHALL CABLE SUPPORT PIPE RACKS BE MOUNTED SO THAT THEY INTERFERE WITH THE REMOVAL OF SCREW COVERS.

H. WHERE THE WIRES AND CABLES FOLLOWING THE SAME ROUTING ARE INDICATED AS RUNNING IN SEPARATE PULL BOXES, IT SHALL BE UNDERSTOOD THAT A SEGREGATION OF THE WIRES AND CABLES IS REQUIRED.

I. BARRIERS SHALL BE PROVIDED FOR SYSTEMS AS FOLLOWS:

1. BETWEEN WIRING WITH DIFFERENT VOLTAGE INSULATION RATINGS.

2. BETWEEN NORMAL AND EMERGENCY WIRING.

J. BARRIERS IN JUNCTION AND PULL BOXES SHALL BE OF NON-CURRENT CARRYING MATERIAL OF ADEQUATE THICKNESS FOR MECHANICAL STRENGTH BUT IN NO CASE LESS THAN 1/4". EACH BARRIER SHALL HAVE AN ANGLE IRON FRAMING SUPPORT ALL AROUND.

K. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULLBOXES AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE COVER. IF NECESSARY AND APPROVED BY ARCHITECT, PROVIDE ACCESS DOOR OR COVERPLATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.

L. BOXES SHALL BE MANUFACTURED BY APPLETON ELECTRIC, CROUSE-HINDS OR O.Z./GEDNEY CO.

2.8 SLEEVES AND INSERTS

A. FURNISH AND INSTALL SLEEVES AND INSERTS AS INDICATED ON DRAWINGS. ALL CONDUITS AND BOXES PENETRATING WATERPROOF CONSTRUCTION SHALL BE FLASHED AND MADE WATERTIGHT.

B. SLEEVES FOR INTERIOR PARTITIONS AND FLOORS SHALL BE 16-GAUGE AND GALVANIZED.

C. ALL SLEEVES SHALL BE SECURELY ANCHORED IN PLACE AND PROPERLY CAPPED TO PREVENT SEEPAGE OF CONCRETE INTO SLEEVE.

D. SLEEVES SHALL BE SEALED WITH AN APPROVED FIREPROOF MATERIAL AFTER INSTALLATION OF FEEDERS.

2.9 SUPPORTS AND FASTENINGS

A. ALL SUPPORTS AND FASTENINGS NECESSARY FOR THE SUPPORT OF ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE BEST INDUSTRY PRACTICE AND AS SPECIFIED HEREIN.

B. FURNISH AND INSTALL ALL STEEL SUPPORTING MEMBERS, HANGERS, BRACKETS OR OTHER SPECIAL DETAILS REQUIRED AND NECESSARY FOR THE PROPER INSTALLATION OF ELECTRIC EQUIPMENT.

C. ALL CHANNELS, JOINERS, HANGERS AND CAPS, NUTS AND BOLTS AND ASSOCIATED PARTS SHALL BE PLATED ELECTROLYTICALLY WITH ZINC OR SHALL BE DIPPED GALVANIZED.

D. SUPPORT SMALLER THAN 2" TRADE SIZE, VERTICALLY RUN CONDUIT AT INTERVALS NO GREATER THAN 8 FEET. SUPPORT VERTICALLY RUN CONDUITS 2" TRADE SIZE OR LARGER, AT INTERVALS NO GREATER THAN THE STORY HEIGHT, OR 15 FT. WHICHEVER IS SMALLER.

E. WHERE THEY ARE NOT EMBEDDED IN CONCRETE, SUPPORT SMALLER THAN 1" TRADE SIZE, HORIZONTALLY RUN CONDUITS AT INTERVALS NO GREATER THAN 7 FT. SUPPORT SUPPORT HORIZONTALLY RUN CONDUITS, 1" TRADE SIZE OR LARGER, AT INTERVALS NO GREATER THAN 10 FT.

F. INCLUDE SUPPORTING FRAMES OR RACKS EXTENDING FROM SLAB TO SLAB FOR WORK INDICATED AS BEING SUPPORTED FROM WALLS WHERE THE WALLS ARE INCAPABLE OF SUPPORTING THE WEIGHT.

G. INCLUDE SUPPORTING FRAMES OR RACKS FOR EQUIPMENT, INTENDED FOR VERTICAL SURFACE MOUNTING, WHICH IS REQUIRED IN A FREE STANDING POSITION.

H. EXCEPT FOR BRANCH CIRCUITRY INSTALL ALL CONDUIT IN HUNG CEILING SPACE ON ACCEPTABLE HANGERS AND INSERTS. CONDUIT OR ARMORED CABLE FOR BRANCH CIRCUITRY SHALL BE SUPPORTED BY CLAMPS OR PIPE STRAPS SECURED TO THE CEILING SUPPORT SYSTEM (BLACK IRON) OR FROM STRUCTURAL MEMBERS OR FROM THE DECK.

2.10 INSULATING BUSHINGS

A. ALL METAL CONDUIT AND ELECTRIC METALLIC TUBING 3/4" AND LARGER TERMINATING IN CABINETS, PULL BOXES AND SIMILAR BOXES SHALL HAVE INSULATED BUSHINGS, TYPE "B" OR TYPE "BLG" (FOR GROUNDING BUSHING) AS MANUFACTURED BY O.Z./GEDNEY CO.

2.11 GROUNDING:

A. PROVIDE A GREEN GROUND CONDUCTOR IN ALL CIRCUIT CONDUITS.

B. PROVIDE SUPPLEMENTARY GROUND BONDING WHERE METALLIC CONDUITS TERMINATE AT METAL CLAD EQUIPMENT (OR AT THE METAL PULL BOX OF EQUIPMENT) FOR WHICH A GROUND BUS IS SPECIFIED. ACCOMPLISH THIS BY EQUIPPING THE CONDUITS WITH A BUSHING OF THE GROUNDING TYPE CONNECTED INDIVIDUALLY TO GROUND BUS.

C. ALL GROUND WIRES SHALL BE SUITABLY PROTECTED FROM MECHANICAL INJURY.

2.12 TEMPORARY LIGHTING AND POWER

A. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL TOOLS POWER FOR THE PROJECT. THIS SHALL INCLUDE INSTALLING ALL LAMPS, BREAKERS, AND FUSING, AS NECESSARY.

B. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE'S NORMAL WORK DAY.

C. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

PART 3 – EXECUTION

3.1 GENERAL

A. ALL CONTROL WIRING ASSOCIATED WITH MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

B. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES SHALL HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR.

C. PREPARE "AS-BUILT" DRAWINGS SHOWING ALL CHANGES IN WIRE SIZE, CIRCUIT NUMBERING, CIRCUIT ROUTING, EQUIPMENT LOCATIONS AND ELECTRICAL WORK AS ACTUALLY INSTALLED SUBMIT "AS-BUILTS" ALONG WITH THREE (3) COPIES OF ALL APPROPRIATE MAINTENANCE AND OPERATIONS MANUALS TO THE OWNER.

D. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION.

E. COORDINATE WITH BUILDING MANAGER FOR ANY SERVICE INTERRUPTION OF EXISTING LIGHTING OR POWER PANELS AND GIVE NOTICE TWO (2) DAYS PRIOR TO ANY WORK. ELECTRICAL CONTRACTOR TO DO WORK ON PREMIUM TIME SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.

F. MAINTAIN GROUND CONTINUITY THROUGHOUT ALL SYSTEMS.

G. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW INSTALLATION. ALL EXPOSED ABANDONED CONDUIT AND WIRING SHALL BE REMOVED. THE CONTRACTOR SHALL CUT BACK ALL ABANDONED CONDUIT AND WIRING TO FLOOR, WALL, OR HUNG CEILING. THIS WORK MAY NOT BE REPRESENTED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL.

H. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF CIRCUITRY FOR EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN. WHERE OUTLETS ARE REMOVED AND ARE NOT AT THE CIRCUIT DEAD END, EXTEND CIRCUITRY AS REQUIRED TO MAINTAIN INTEGRITY OF ORIGINAL CIRCUIT. WHERE A WIRING DEVICE IS TO BE REMOVED AND THAT WALL IS TO REMAIN THE ELECTRICAL CONTRACTOR SHALL REMOVE BRANCH CIRCUITRY FROM ITS SOURCE AND FILL-IN OUTLET BOX. BLANK PLATES WILL NOT BE PERMITTED.

I. ELECTRICAL CLOSETS SHALL BE CLEANED OUT OF ALL DEBRIS AND EXCESS MATERIAL. ALL PANEL COVERS AND TRIMS SHALL BE REINSTALLED. SEAL ALL HOLES IN SLABS AND WALLS WITH APPROVED FIRE RATED MATERIAL.

J. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING THE ACTUAL NUMBER OF CONDUCTORS REQUIRED FOR ALL BRANCH CIRCUIT WIRING TO SERVE THE INTENDED FUNCTION.

K. ALL WORK REQUIRING ELECTRICAL SHUTDOWNS WHICH WILL AFFECT OTHER FLOORS OF THE BUILDING OR WHICH WILL AFFECT TENANTS LOCATED ON THE FLOORS UPON WHICH THE WORK IS BEING DONE, SHALL BE PERFORMED ON PREMIUM TIME TO MAINTAIN CONTINUITY OF ELECTRICAL SERVICE TO ALL TENANTS IN THE BUILDING.

L. THE CONTRACTOR SHALL REMOVE/RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.

M. PANEL DIRECTORIES SHALL BE COMPLETELY FILLED IN AT THE CONSTRUCTION COMPLETION (FOR EXISTING AND NEW PANELS).

N. ANY EXISTING WORK DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED AS REQUIRED. MATERIAL AND FINISH TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

O. ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY THIS WORK SHALL BE RECONNECTED AND RESTORED TO ITS CURRENT FUNCTION.

P. ALL RACEWAYS WHICH BECOME EXPOSED BEYOND FINISHED SURFACES DUE TO ALTERATION WORK SHALL BE REMOVED AND RE-ROUTED BEHIND THE FINISHED SURFACES.

Q. CUT BACK TO FLOOR, WALL OR CEILING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. REMOVE EXPOSED CONDUITS, OUTLET BOXES AND HANGERS MADE OBSOLETE BY ALTERATION UNLESS DESIGNATED TO REMAIN. ALL UNUSED WIRE SHALL BE REMOVED.

3.2 SHOP DRAWINGS.

A. SUBMIT SIX (3) SETS OF SHOP DRAWINGS FOR THE FOLLOWING:

1. WIRING DEVICES.
2. OVERCURRENT PROTECTION DEVICES.
3. ENCLOSED DISCONNECTION SWITCHES.

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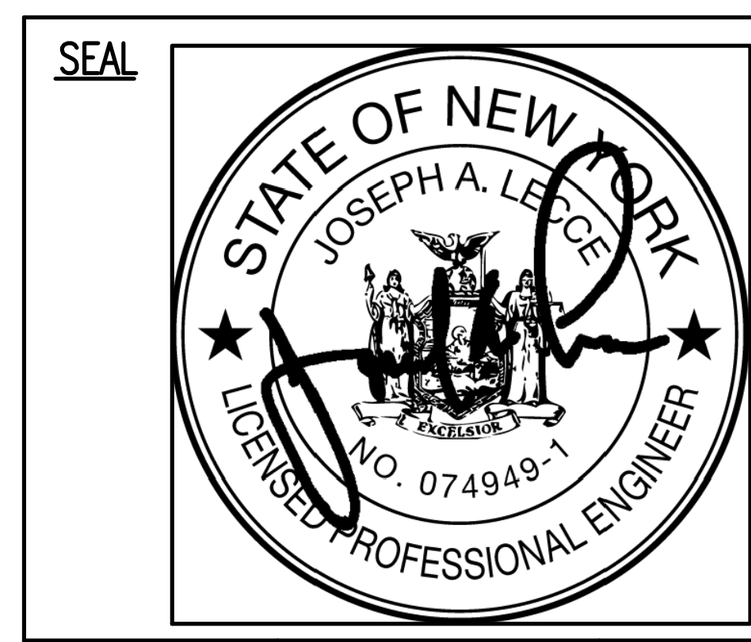
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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

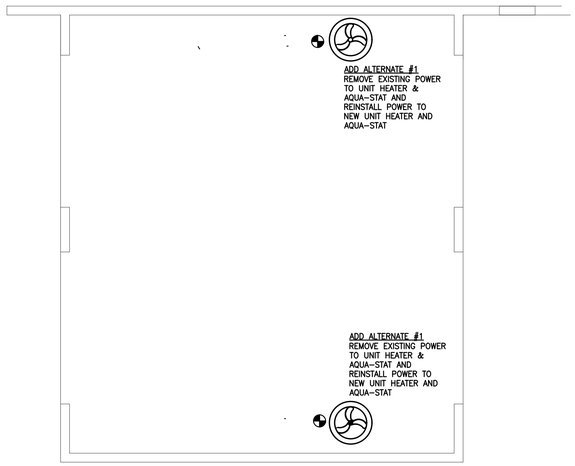
NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
1.	ISSUED FOR BID	10/30/26

SEAL


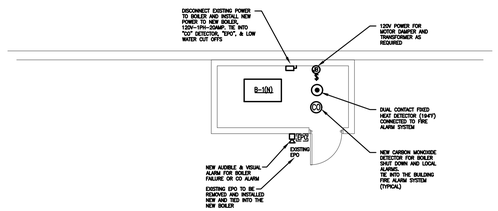
SCALE: 1=1	DATE: 08/03/2026	PROJECT NO.: #2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
ELECTRICAL SPECIFICATIONS SHEET #1

DRAWING NO:
E-201



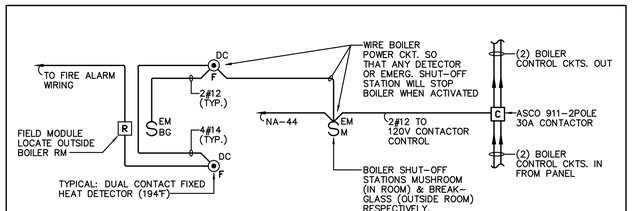
GARGE SOUTH PART PLAN- NEW WORK PLAN



BOILER ROOM PART PLAN- NEW WORK PLAN

NOTES:

1. MECHANICAL CONTRACTOR IS THE PRIME CONTRACTOR AND ALL WORK SHALL BE FULLY BID AND COORDINATED BASED ON THE MECHANICAL CONTRACTORS PHASING AND SCHEDULE
2. ALL WIRING, INCLUDING CONTROL WIRING, TO BE IN EMT CONDUIT



BOILER SHUTDOWN WIRING DIAGRAM

NOT TO SCALE

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PROJECT:
PROPOSED BOILER REPLACEMENT
85 OLD SAW MILL RIVER ROAD
BRIARCLIFF MANOR, NEW YORK

NO.	ISSUE	DATE
1.	ISSUED FOR 100% REVIEW	08/14/26
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SEAL



SCALE:	DATE:	PROJECT NO.:
1/8"=1'-0"	08/03/2026	#2026-087
DRAWN BY: EB	CHECKED BY: JAL	APPROVED BY: JAL

DRAWING TITLE:
ELECTRICAL
BOILER ROOM & GARAGE
NEW WORK PART PLAN

DRAWING NO:
E-301