

BOILER ROOM PLAN – DEMOLITION
SCALE : 1:50

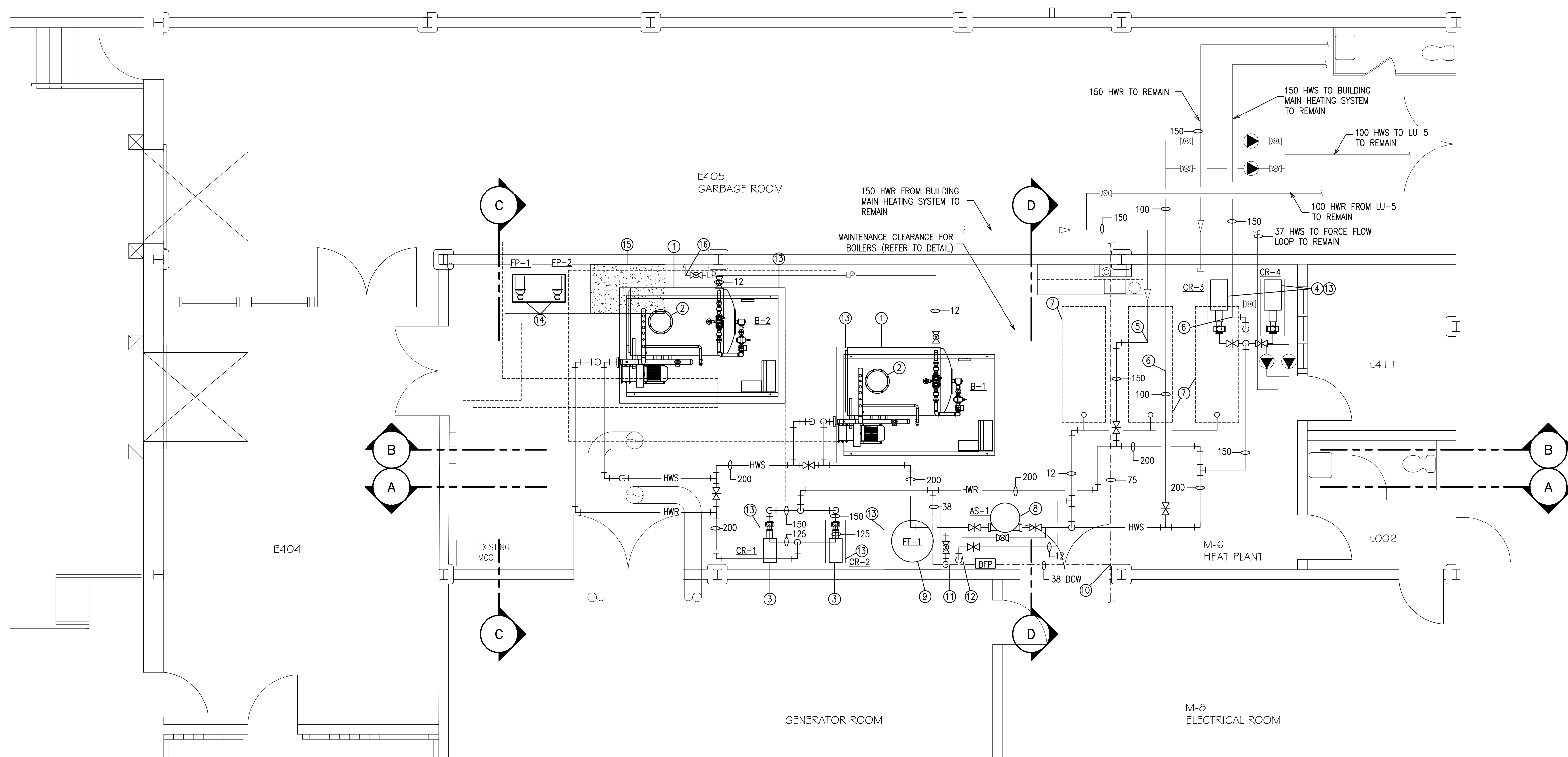
GENERAL DEMOLITION NOTES

IN ADDITION TO THAT SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL COMPONENTS, FITTINGS AND EQUIPMENT ASSOCIATED WITH THE EXISTING BOILERS UNLESS OTHERWISE SHOWN TO REMAIN.

ALL EQUIPMENT, PIPING, ETC THAT IS TO BE REMOVED SHALL BE DISASSEMBLED AS REQUIRED SO THAT THEY CAN BE ROUTED THROUGH MAIN DOUBLE DOORS AT THE BACK OF THE MECHANICAL ROOM.

DEMOLITION NOTES

- EXISTING HOT WATER SUPPLY IN-LINE CIRCULATING PUMPS TO BE REMOVED. DISCONNECT PIPING UPSTREAM AND DOWNSTREAM AS SHOWN FOR RECONNECTION TO NEW BASE MOUNTED PUMP SET. REFER TO NEW WORK PLAN FOR LOCATION.
- EXISTING 2943 KW OIL FIRED HOT WATER BOILER TO BE REMOVED IN ITS ENTIRETY. REMOVE EXISTING BOILER, FLUE AND HOUSEKEEPING PAD. CONTRACTOR TO PATCH AND SEAL ROOF PENETRATIONS FROM DEMOLISHED CHIMNEYS WATERTIGHT.
- EXISTING 1000 KW ELECTRIC BOILER, HOUSEKEEPING PAD AND ASSOCIATED HWS AND HWR PIPING TO MAINS TO BE REMOVED IN ITS ENTIRETY.
- EXISTING LOW PRESSURE STEAM BOILER TO BE REMOVED IN ITS ENTIRETY. REMOVE EXISTING BOILER FLUE AND HOUSEKEEPING PAD.
- ALL EXISTING STEAM LINES WITHIN BOILER ROOM TO BE REMOVED. ALL REMAINING STEAM LINES OUTSIDE THE BOILER ROOM SHALL BE DRAINED AND CAPPED INSIDE BOILER ROOM AND ABANDONED IN PLACE. STEAM LINES IN KITCHEN TO BE REMOVED BY OTHERS.
- EXISTING CHEMICAL POT FEEDER AND ASSOCIATED PIPING TO BE REMOVED IN ITS ENTIRETY.
- EXISTING OIL SUPPLY PUMPS (4) TO BE REMOVED AND REPLACED. DISCONNECT OIL PIPING FROM EXISTING BOILERS AND PREPARE SUPPLY PIPING FROM TANKS FOR CONNECTION TO NEW PUMPS.
- EXISTING WATER SOFTENER SYSTEM TO BE REMOVED.
- EXISTING AIR HANDLING UNIT MOUNTED AT CEILING TO REMAIN.
- EXISTING EXPANSION TANKS (3) MOUNTED AT CEILING AND ASSOCIATED PIPING TO BE REMOVED IN ITS ENTIRETY.
- EXISTING FUEL OIL PIPING TO/FROM UNDERGROUND TANKS TO REMAIN. DISCONNECT PIPING FROM TRENCH TO EXISTING OIL PUMPS.
- EXISTING FUEL OIL PIPING IN TRENCH. REMOVE ALL PIPING TO/FROM EXISTING BOILERS BACK TO PUMPS.
- EXISTING MOTOR CONTROL CENTER TO REMAIN.
- EXISTING FLUE FROM EMERGENCY GENERATORS AND UP THROUGH ROOF TO REMAIN.
- EXISTING HOT WATER RETURN IN-LINE CIRCULATING PUMPS TO BE REMOVED. DISCONNECT PIPING UPSTREAM AND DOWNSTREAM AS REQUIRED FOR RECONNECTION TO NEW BASE MOUNTED PUMP SET. REFER TO NEW WORK PLAN FOR LOCATION.
- DISCONNECT EXISTING SUPPLY AND RETURN PIPING TO OIL FIRED BOILER. PIPING WILL BE CONNECTED TO NEW BOILERS AS SHOWN ON NEW WORK PLAN.
- EXISTING WORK BENCH AND SINK TO REMAIN.
- EXISTING MOTOR CONTROL CENTER SERVING ELECTRIC BOILERS TO BE REMOVED.
- EXISTING CONDENSATE RETURN UNIT AND PIPING WITHIN BOILER ROOM TO BE REMOVED IN ITS ENTIRETY. ALL REMAINING CONDENSATE LINES OUTSIDE THE BOILER ROOM SHALL BE DRAINED AND CAPPED INSIDE BOILER ROOM AND ABANDONED IN PLACE. TAG AND IDENTIFY AS "ABANDONED PIPE".
- EXISTING BOILER MAKE UP WATER LINE TO BE REMOVED IN ITS ENTIRETY.
- EXISTING AIR SEPARATOR TO BE REMOVED. DISCONNECT AND REMOVE BOILER FEED WATER PIPING IN ITS ENTIRETY.
- EXISTING CIRCULATOR PUMPS TO REMAIN. DISCONNECT PIPING FROM MAIN AND MAKE READY FOR RECONNECTION TO NEW PIPING.
- EXISTING CHEMICAL FEED SYSTEM TO BE REMOVED.
- EXISTING 75mm DOMESTIC WATER LINE IN THIS APPROXIMATE LOCATION TO REMAIN.



BOILER ROOM PLAN – BOILER PIPING NEW LAYOUT
SCALE : 1:50

GENERAL NOTES

ALLOW FOR EXTRA PIPE AND FITTINGS FOR OFFSETS TO COMPLETE INSTALLATION AND AVOID INTERFERENCES.

PROVIDE ADDITIONAL PIPE HANGERS ON EXISTING PIPING PER SPECIFICATION.

CONTRACTOR TO VERIFY EXISTING PIPING DIMENSIONS ON SITE.

PROVIDE PIPE IDENTIFICATION AS PER SPECIFICATION.

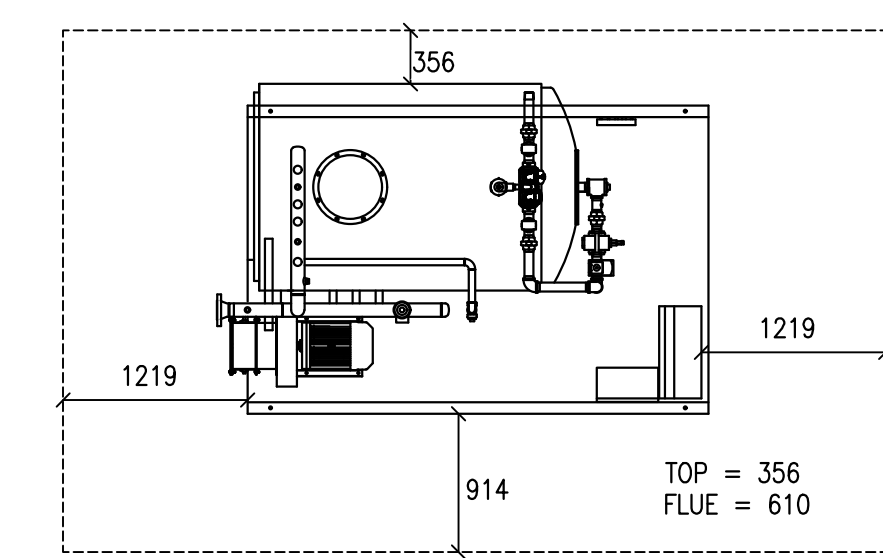
PIPING LOCATIONS SHOWN TO AND FROM LU-5 ARE APPROXIMATE. VERIFY EXACT LOCATION ON SITE.

LEGEND

— HWS	HEATING WATER SUPPLY (EXIST)
— HWR	HEATING WATER RETURN (EXIST)
- - - - -	EXISTING EQUIPMENT/PIPING TO BE REMOVED
— HWS	HEATING WATER SUPPLY
— HWR	HEATING WATER RETURN
- - - - -	FUEL OIL SUPPLY
- - - - -	FUEL OIL RETURN
- - - - -	DOMESTIC COLD WATER
↑	PIPES UP
↓	PIPES DOWN
⌵	RELIEF VALVE
⊡	THERMOMETER
⌵	BALL VALVE
⌵	BUTTERFLY VALVE
⌵	TRIPLE DUTY VALVE
⌵ NC	NORMALLY CLOSED GLOBE VALVE
⌵ PG	PRESSURE GAUGE
⌵	STRAINER
⌵	CHECK VALVE
⌵	AUTOMATIC AIR VENT
⌵	UNION
⌵	PUMP
⌵	OIL LEAK SENSOR

DRAWING NOTES

- NEW OIL-FIRED HOT WATER COIL TUBE BOILER. FOR DESCRIPTION SEE SCHEDULE AND SPECIFICATIONS. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- NEW 4000 STACK UP THROUGH ROOF. CONTRACTOR TO COORDINATE EXACT LOCATION OF ROOF PENETRATION ON SITE. PROVIDE ALL REQUIRED SUPPORTS AND SEAL ROOF PENETRATION WATERTIGHT.
- NEW BASE MOUNTED HWS CIRCULATOR PUMP. FOR DESCRIPTION SEE SCHEDULE AND SPECIFICATIONS.
- NEW BASE MOUNTED HWR CIRCULATOR PUMP. FOR DESCRIPTION SEE SCHEDULE AND SPECIFICATIONS.
- CONNECT NEW HWR PIPING TO EXISTING IN THIS APPROXIMATE LOCATION.
- CONNECT NEW HWS PIPING TO EXISTING IN THIS APPROXIMATE LOCATION.
- NEW 1514 LITER EXPANSION TANK MOUNTED AT CEILING.
- NEW AIR SEPARATOR
- NEW SYSTEM FILL TANK.
- CONNECT TO EXISTING 75mm DOMESTIC WATER LINE IN THIS APPROXIMATE LOCATION. ALL NEW DOW PIPING TO BE CPVC OR PP-R MATERIAL ONLY.
- 25MM FILL VALVE ASSEMBLY C/W BACKFLOW PREVENTOR, NORMALLY CLOSED, USED FOR COMPLETE SYSTEM FILL.
- 12MM COLD WATER MAKE UP TO SYSTEM FILL TANK C/W SHUT-OFF VALVE, AND UNION FOR INDIRECT CONNECTION OF HOSE TO TANK.
- NEW 100mm HIGH HOUSEKEEPING PAD.
- NEW FUEL OIL PUMPS (REFER TO DRAWING H-101 FOR PIPING LAYOUT)
- REMOVE SECTION OF EXISTING CONCRETE PAD AS SHOWN TO ACCOMMODATE NEW BOILER HOUSEKEEPING PAD IN THIS LOCATION.
- CONNECT NEW LP GAS PIPING TO EXISTING PIPING IN LOCATION SHOWN. PIPE TO EACH BOILER FOR BURNER PILOT OPERATION.



MINIMUM BOILER CLEARANCES
SCALE : 1:50



0	ISSUED FOR TENDER	NOV 04 2019
revisions		date
project		project

ATLANTIC INSTITUTION HEATING PLANT UPGRADE

BOILER ROOM PIPING PLANS

designed B.S.M.	concur
date NOVEMBER 2019	date
drawn S.E.B.	designed
date NOVEMBER 2019	date
approved	approved
date	date
Tender	Submission
PAWISC Project Manager	Administrateur de projets TPISC
project number	no. du projet
R.087698.001	
drawing no.	no. du dessin
H-100	