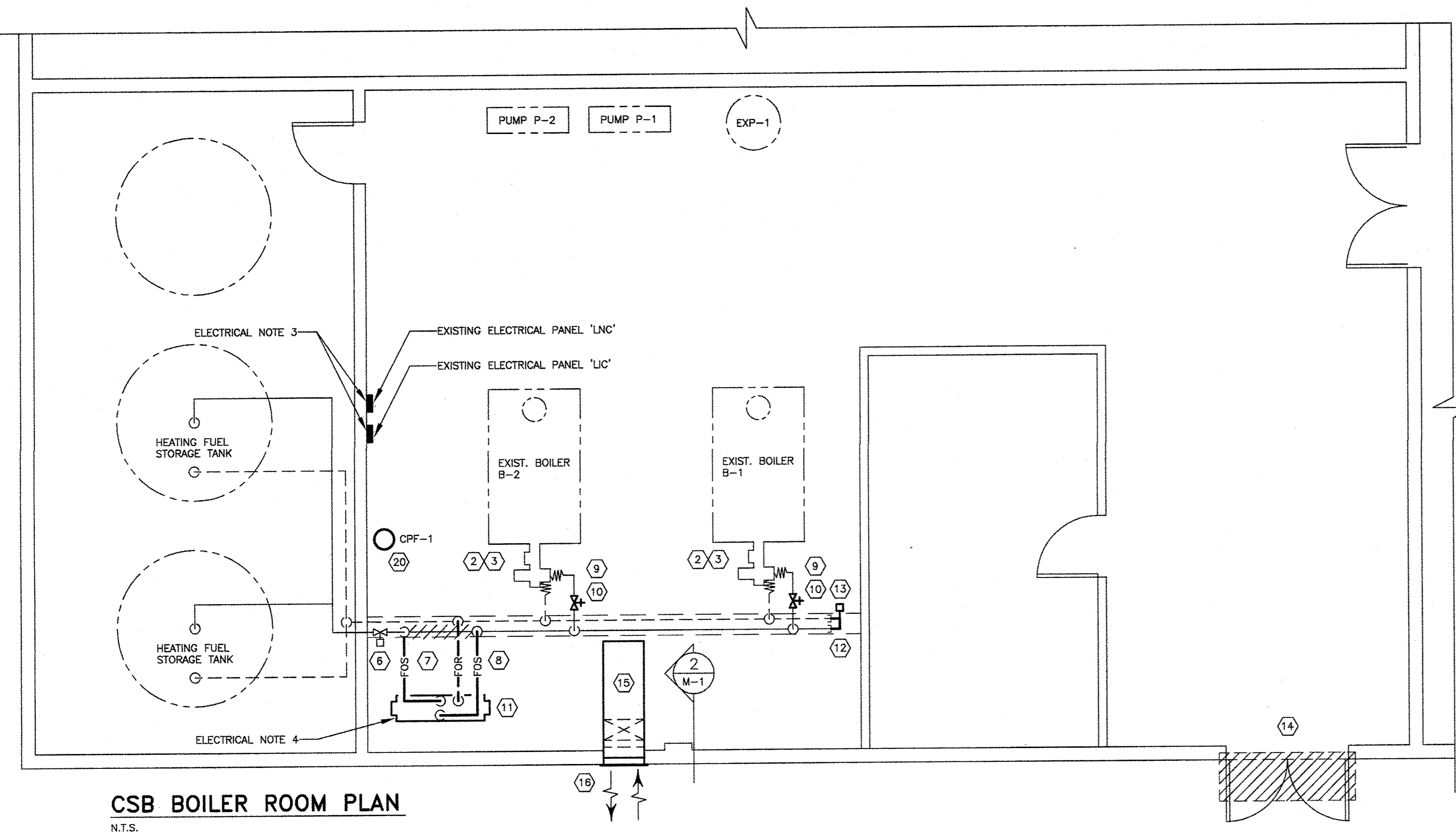


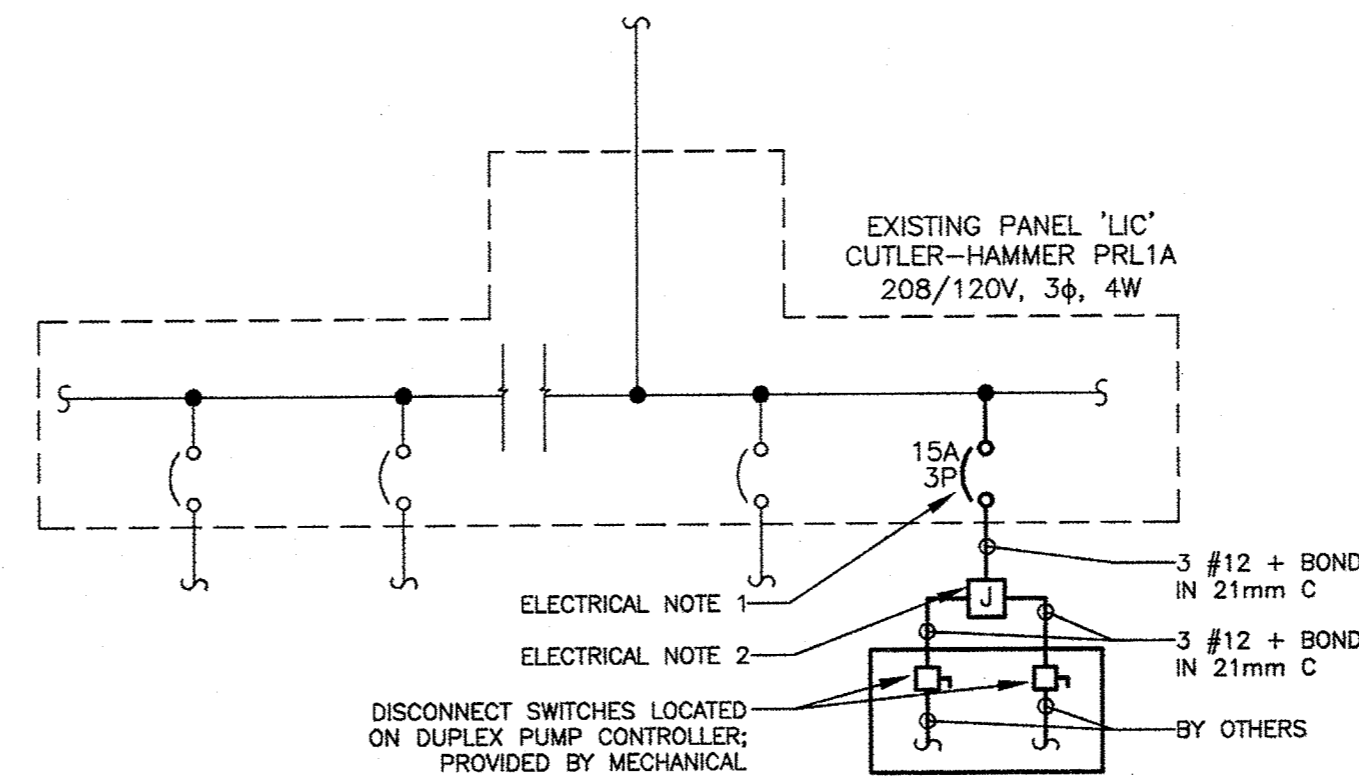
**BOILER PIPING ISOMETRIC © CSB**  
N.T.S.



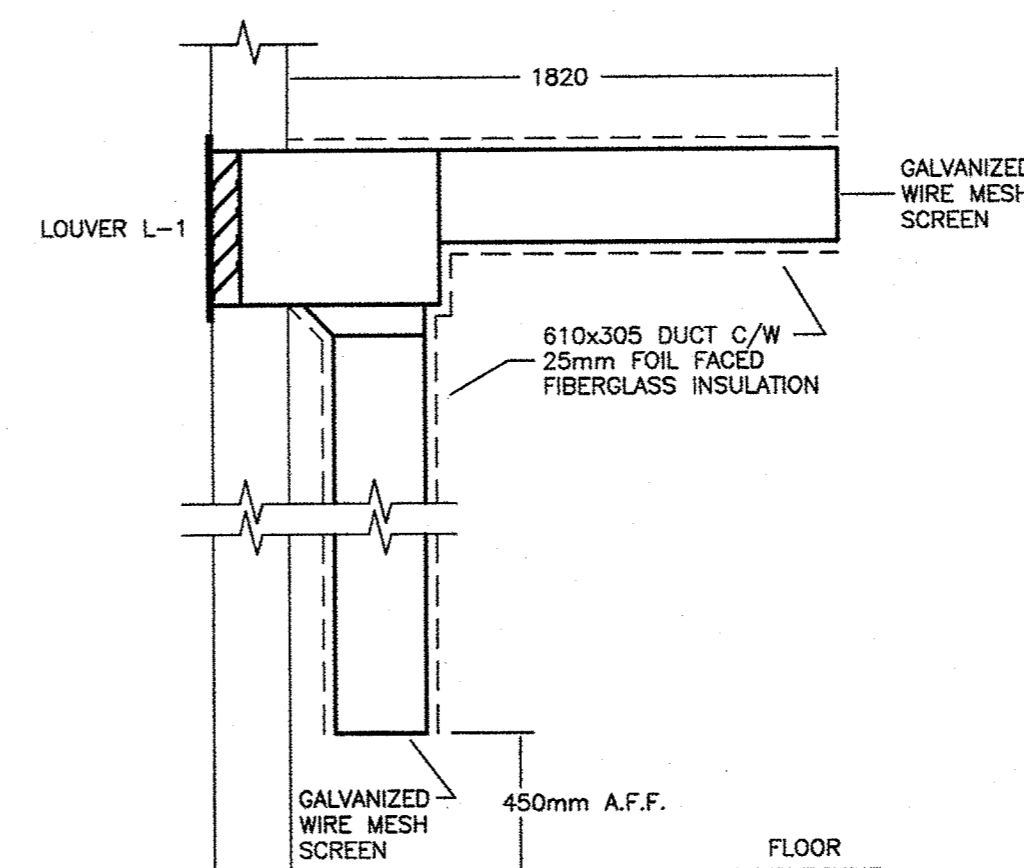
**CSB BOILER ROOM PLAN**  
N.T.S.

### GENERAL NOTES – ELECTRICAL

1. PROVIDE 15A, 3P BREAKER IN EXISTING PANEL 'LIC', CIRCUITS 26,28,30.
2. PROVIDE JUNCTION BOX, SIZED AS REQUIRED, TO SPLIT FEED FROM BREAKER TO DISCONNECT SWITCHES.
3. APPROXIMATE LOCATION OF EXISTING PANELS. CONFIRM EXACT LOCATION ON SITE.
4. APPROXIMATE LOCATION OF DUPLEX PUMPS. FOR EXACT LOCATION, COORDINATE ON SITE WITH MECHANICAL CONTRACTOR.

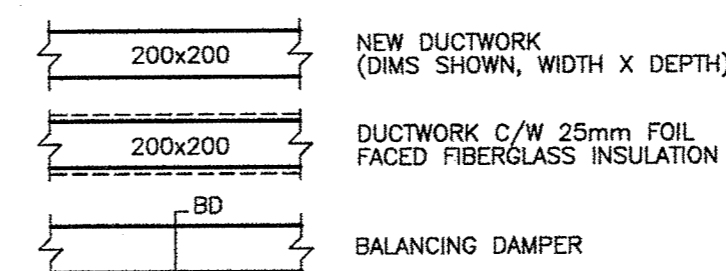


**1 PARTIAL SINGLE LINE DIAGRAM**  
M-1 N.T.S.

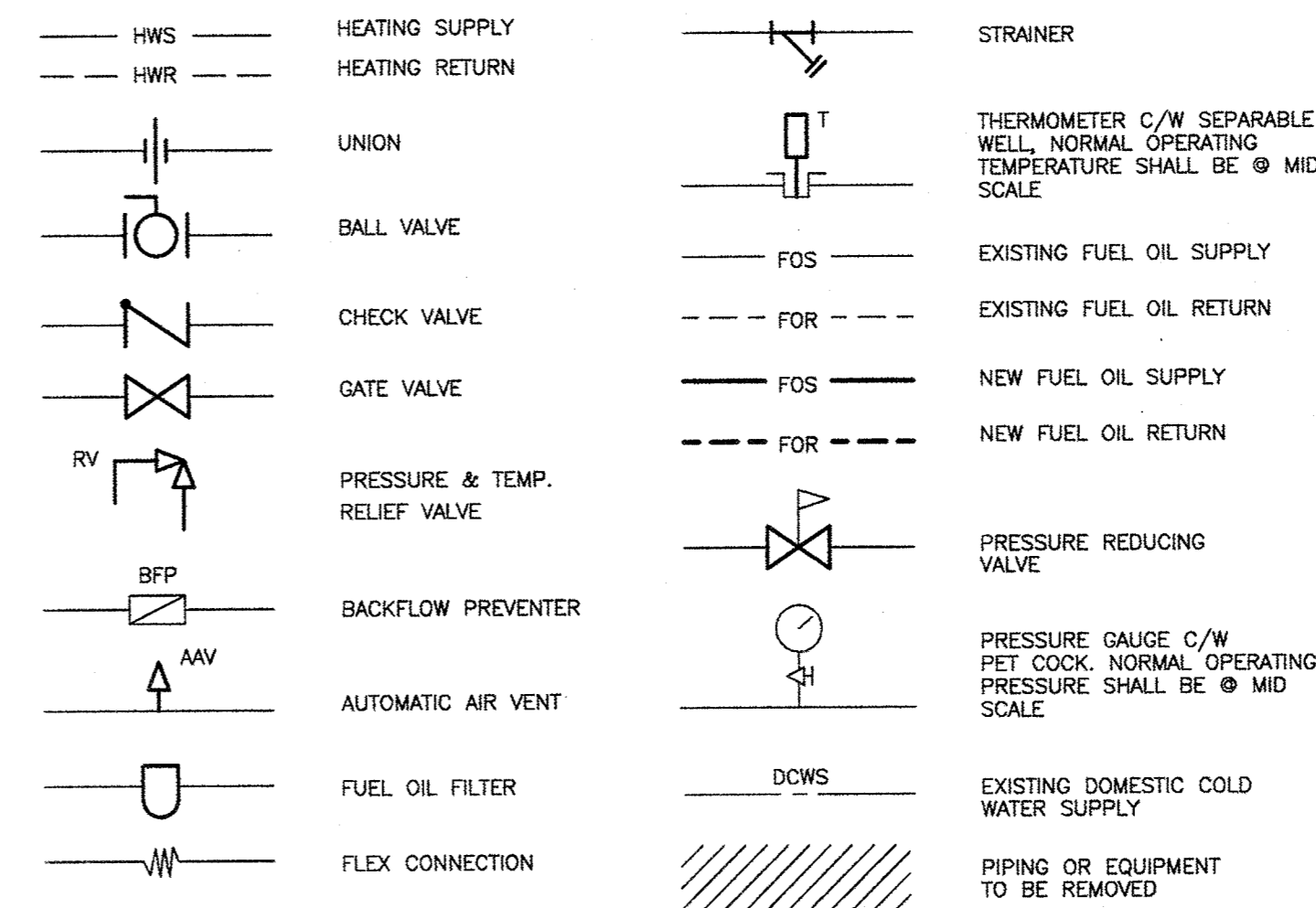


**2 CSB COMBUSTION AIR DETAIL**  
M-1 N.T.S.

### VENTILATION LEGEND



### HEATING LEGEND

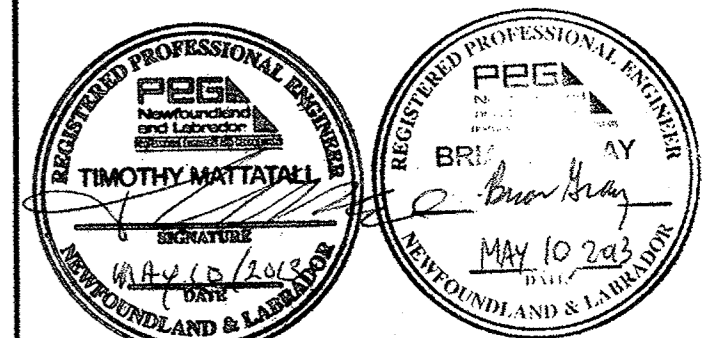
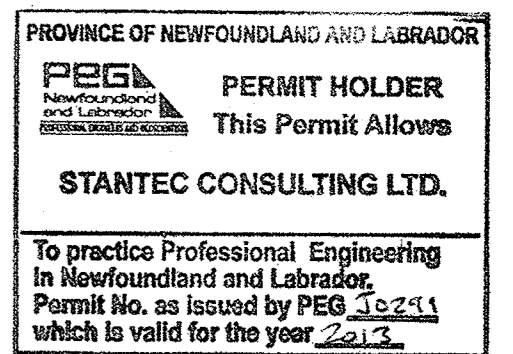


### GENERAL NOTES – MECHANICAL

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PROVINCIAL AND MUNICIPAL CODES.
2. CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, CO-ORDINATE WITH OTHER TRADES AND SCHEDULE WORK TO THE SATISFACTION OF TRANSPORT CANADA.
3. INSTALLATION OF EQUIPMENT ASSOCIATED WITH OIL FIRED EQUIPMENT SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA B-139.
4. ANY CONTROL WIRING ASSOCIATED WITH THE MECHANICAL EQUIPMENT SHALL BE CARRIED OUT BY A QUALIFIED CONTROLS CONTRACTOR.
5. DO NOT ALLOW CONSTRUCTION DEBRIS TO ACCUMULATE. LEAVE SITE CLEAN AT THE END OF EACH DAY AND AT THE END OF THE PROJECT.
6. ALL EXISTING PIPE INSULATION ASSOCIATED WITH THIS PROJECT SHALL BE CONSIDERED TO CONTAIN ASBESTOS. REMOVAL OR ALTERATION OF THIS MATERIAL SHALL BE CARRIED OUT PER THE REQUIREMENTS OF SPECIFICATION SECTION 02 82 00.02 – ASBESTOS ABETMENT – INTERMEDIATE PRECAUTIONS.
7. SUBMIT PDF COPIES OF SHOP DRAWINGS TO DEPARTMENTAL REPRESENTATIVE FOR ALL SPECIFIED EQUIPMENT BEFORE PLACING ORDERS. REFER TO SPECIFICATION SECTION 01 33 00.
8. NEW GALVANIZED DUCTING SHALL BE MANUFACTURED AND INSTALLED PER THE LATEST ASHRAE AND SMACNA STANDARDS.
9. ALL NEW DUCTWORK SHALL BE SEALED AND MADE AIRTIGHT.
10. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.

### KEYNOTES – MECHANICAL

1. REPLACE EXISTING THERMOMETER WITH NEW. REFER TO SPECIFICATION SECTION 23 05 19.01.
2. REPLACE EXISTING PRESSURE GAUGE WITH NEW. REFER TO SPECIFICATION SECTION 23 05 19.01.
3. REPLACE EXISTING BOILER MOUNTED ROTARY THERMOMETER REFER TO SPECIFICATION SECTION 23 05 19.01.
4. REMOVE DAMAGED SECTION OF EXISTING PIPING INSULATION. REFER TO SPECIFICATION SECTION 02 82 00.02 FOR ASBESTOS HANDLING AND DISPOSAL PROCEDURES.
5. INSTALL NEW INSULATION AND JACKET WHERE DAMAGED INSULATION WAS REMOVED. REFER TO SPECIFICATION SECTION 23 07 15.
6. EXISTING FOS SOLENOID VALVE SHALL REMAIN.
7. REMOVE INDICATED SECTION OF EXISTING FOS MAIN IN PIPE TRENCH.
8. CONNECT NEW 3/4 NPS FOS BRANCH INTO EXISTING 3/4 NPS FOS MAIN.
9. REPLACE EXISTING FLEXIBLE FOS AND FOR HOSES TO BURNER. REFER TO SPECIFICATION SECTION 23 11 13.
10. PROVIDE NEW FIRE SAFETY VALVE IN EXISTING FOS LINE AT BURNER. REFER TO SECTION 23 11 13.
11. PROVIDE NEW DUPLEX FUEL OIL TRANSFER PUMP SET AND CONTROL PANEL. REFER TO WRITTEN SPECIFICATION SECTION 23 11 13.
12. REMOVE CAPS FROM EXISTING FOS AND FOR MAINS AND PIPE MAINS TOGETHER AS INDICATED.
13. PROVIDE NEW BYPASS RELIEF VALVE REFER TO SPECIFICATION SECTION 23 11 13.
14. REMOVE EXISTING COMBUSTION AIR HOOD AND LOUVER ABOVE DOORS. REPAIR EXTERIOR WALL CLADDING TO MATCH EXISTING.
15. NEW COMBUSTION AIR DUCTING ASSEMBLY MOUNTED AS HIGH AS POSSIBLE. AVOID EXISTING ROOF STRUCTURE.
16. NEW COMBUSTION AIR LOUVER MOUNTED IN OUTSIDE WALL. REFER TO SPECIFICATION SECTION 23 37 20.
17. REMOVE EXISTING 3-WAY DIVERT VALVE AND ACTUATOR AT MAKE-UP AIR UNIT HEATING COIL AND REPLACE WITH NEW. REFER TO SPECIFICATION SECTION 25 30 02.
18. REMOVE EXISTING 3-WAY MIXING VALVE AND ACTUATOR AT PUMPS P-3 AND P-4 AND REPLACE WITH NEW. REFER TO SPECIFICATION SECTION 25 30 02.
19. PROVIDE NEW BOILER WATER MAKE-UP ASSEMBLY. REFER TO SPECIFICATION SECTION 23 21 14.
20. PROVIDE NEW CHEMICAL POT FEEDER AT FLOOR LEVEL. CONNECT NEW 3/4 NPS BRANCHES INTO EXISTING HWS AND HWR PIPING. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



0	ISSUED FOR TENDER	10 MAY 2013
A	ISSUED FOR 99% REVIEW	28 MAR 2013
revisions		date
project		project

**HEATING SYSTEM IMPROVEMENTS WABUSH AIRPORT**

**COMBINED SERVICES BUILDING MECHANICAL/ELECTRICAL PLAN**

designed C.J.	conçu
date 03/28/2013	
drawn B.C.	dessiné
date 03/28/2013	
approved	approuvé
date	
Tender	Soumission
PWOSC Project Manager	Administrateur de projets TPSCG
project number	no. du projet
R.055512.001	
drawing no.	no. du dessin
M-1	