

GENERAL NOTES

1. THIS PROJECT INVOLVES WORK IN AN EXISTING BUILDING; THEREFORE CAREFUL EXAMINATION OF THE SITE & LOCAL CONDITIONS WILL BE REQUIRED TO DETERMINE THE COMPLETE SCOPE ASSOCIATED WITH CARRYING OUT THE WORK AS INDICATED. ANY EXISTING MECHANICAL WORK INDICATED ON THESE DRAWINGS SHALL NOT BE CONSIDERED AS "AS-BUILT" THE MECHANICAL CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCES IDENTIFIED BETWEEN THESE DRAWINGS AND THE EXISTING CONDITIONS.
2. PLANS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY TO SHOW GENERAL ARRANGEMENT OF SYSTEM. THE EXACT LOCATION OF PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDINGS SECTIONS AND DETAILS PROVIDED ARE FOR INFORMATION ONLY AND DO NOT RELIVE THE CONTRACTOR FORM PERFORMING FINAL COORDINATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.
3. ALL DUCTWORK AND PIPE DIMENSIONS ARE SHOWN IN MILLIMETERS.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO ENSURE THE INSTALLATION OF COMPLETE AND FULLY OPERATIONAL SYSTEM.
5. ADEQUATE SERVICE / MAINTAINED CLEARANCE AROUND EQUIPMENT SHALL BE PROVIDED AND EQUIPMENT INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURE'S RECOMMENDATIONS AND INSTALLATION CRITERIA. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICE REQUIRED FOR A COMPLETED WORKING INSTALLATION.
6. ALL SUPPORTS, SPACE ARRANGEMENTS, EQUIPMENT FOOTPRINTS, AND EQUIPMENT PADS BASED ON PRELIMINARY INFORMATION FROM THE BASIS OF DESIGN MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING DATA FROM SUBMITTED SHOP DRAWINGS AND SHALL MAKE MODIFICATIONS REQUIRED.

EXISTING SYSTEM CONDITION / UNKNOWNNS

THE EXISTING HEATING DISTRIBUTION SYSTEM, PUMPS, CONTROLS, VALVES, PIPEWORK ARRANGEMENTS, AND HYDRAULIC CHARACTERISTICS ARE EXISTING INSTALLATIONS AND MAY DIFFER FROM AVAILABLE RECORD INFORMATION.

EXISTING SERVICES INFORMATION SHOWN ON THE DRAWINGS IS INDICATIVE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SITE INVESTIGATIONS AND SURVEYS TO CONFIRM THE CONDITION, CAPACITY, ARRANGEMENT, AND SUITABILITY OF THE EXISTING HEATING SYSTEM COMPONENTS PRIOR TO INSTALLATION WORKS.

THE CONTRACTOR SHALL ALLOW FOR REASONABLE MODIFICATIONS AND ADJUSTMENTS TO THE EXISTING SYSTEM NECESSARY TO ACHIEVE SATISFACTORY OPERATION OF THE NEW AND EXISTING PLANT OPERATING IN BIVALENT MODE.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHERE EXISTING CONDITIONS DIFFER MATERIALLY FROM THE TENDER DOCUMENTATION.

HYDRAULIC INTEGRATION / BALANCING

THE CONTRACTOR SHALL ALLOW FOR COMMISSIONING, BALANCING, AND OPTIMISATION OF THE COMPLETE HEATING SYSTEM FOLLOWING INTEGRATION OF THE NEW HEAT PUMPS WITH THE EXISTING BOILER SYSTEM.

THE CONTRACTOR SHALL ALLOW FOR ADJUSTMENT AND FINE-TUNING OF EXISTING DISTRIBUTION PUMPS, CONTROL VALVES, BALANCING VALVES, VARIABLE SPEED DRIVES, AND ASSOCIATED CONTROLS AS REQUIRED TO ACHIEVE STABLE AND EFFICIENT OPERATION.

THE CONTRACTOR SHALL ALLOW FOR MINOR PIPEWORK MODIFICATIONS, VALVE ADJUSTMENTS, SENSOR RELOCATION, CONTROL SETPOINT OPTIMISATION, AND ASSOCIATED ANCILLARY WORKS REQUIRED TO ACHIEVE SATISFACTORY HYDRAULIC AND CONTROL PERFORMANCE.

FINAL BALANCING AND COMMISSIONING SHALL BE UNDERTAKEN WITH BOTH HEAT PUMP AND BOILER SYSTEMS OPERATIONAL UNDER REPRESENTATIVE LOAD CONDITIONS.

CONTROLS / SEQUENCING

THE CONTRACTOR SHALL COORDINATE ALL CONTROLS INTEGRATION WORKS NECESSARY TO ENSURE CORRECT SEQUENCING AND STABLE OPERATION OF THE BIVALENT HEATING SYSTEM.

THE CONTRACTOR SHALL REVIEW AND OPTIMISE OPERATING PARAMETERS INCLUDING FLOW TEMPERATURES, PUMP DUTIES, STAGING, SEQUENCING, WEATHER COMPENSATION, AND CHANGEOVER LOGIC DURING COMMISSIONING.

THE CONTRACTOR SHALL ENSURE THAT SYSTEM CONTROLS ARE CONFIGURED TO PRIORITISE HEAT PUMP OPERATION WHEREVER PRACTICAL WHILE MAINTAINING SYSTEM STABILITY AND BUILDING HEATING PERFORMANCE.

THE FINAL CONTROL STRATEGY AND OPERATING PARAMETERS SHALL BE AGREED WITH THE ENGINEER FOLLOWING COMMISSIONING AND SEASONAL OPTIMISATION.

COMMISSIONING / SOFT LANDINGS

THE CONTRACTOR SHALL INCLUDE FOR AN EXTENDED COMMISSIONING AND OPTIMISATION PERIOD FOLLOWING PRACTICAL COMPLETION TO ALLOW FOR ADJUSTMENT OF THE INTEGRATED HEATING SYSTEM UNDER LIVE OPERATING CONDITIONS.

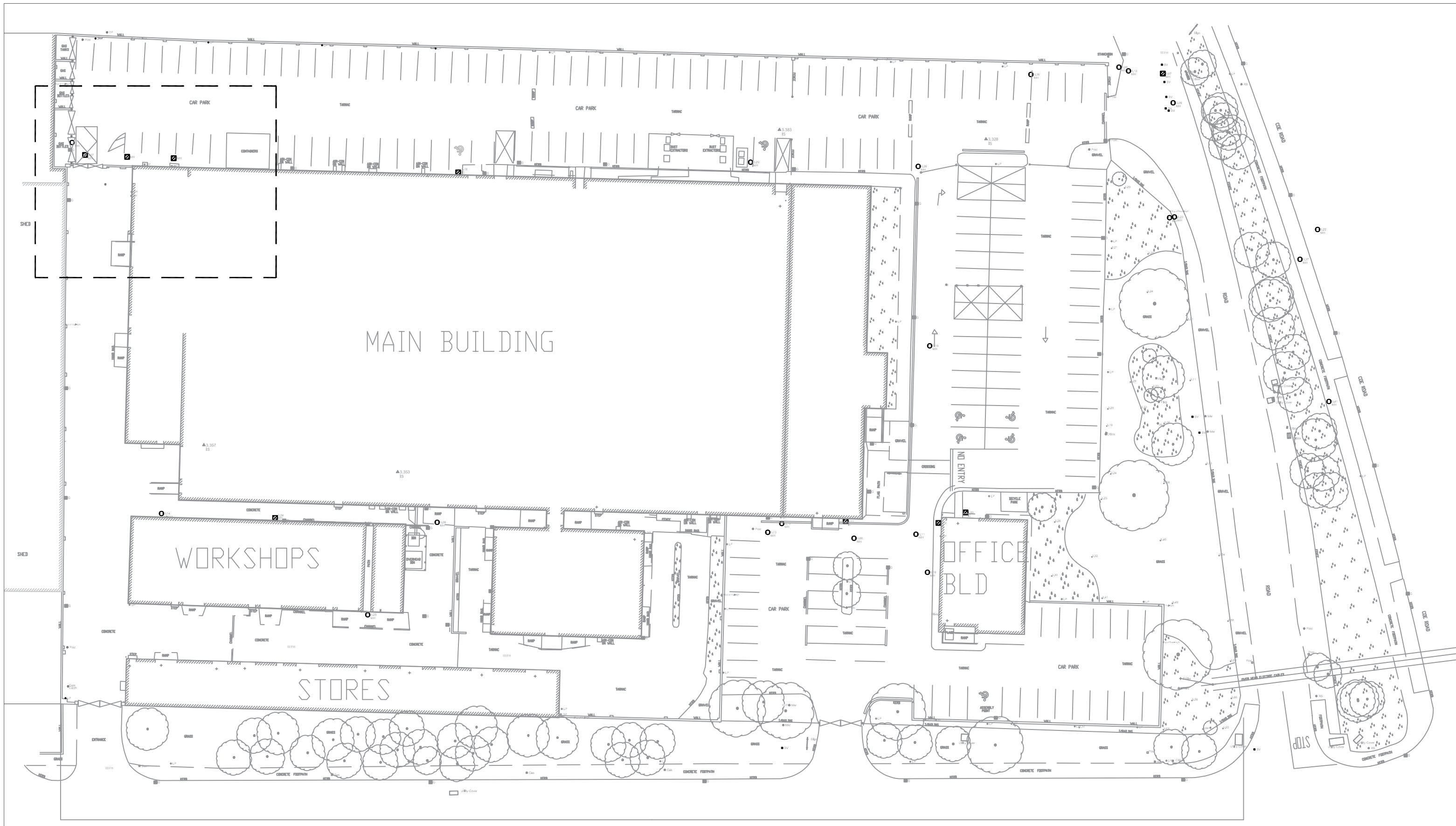
SEASONAL COMMISSIONING SHALL BE INCLUDED TO VERIFY OPERATION DURING REPRESENTATIVE HEATING CONDITIONS.

THE CONTRACTOR SHALL ALLOW FOR RETURN VISITS (x2) FOLLOWING INITIAL OPERATION TO ADJUST BALANCING, CONTROLS, PUMP SETTINGS, AND SEQUENCING AS NECESSARY.

THE HEATING INSTALLATION SHALL NOT BE CONSIDERED COMPLETE UNTIL STABLE OPERATION OF THE INTEGRATED HEAT PUMP AND BOILER SYSTEM HAS BEEN DEMONSTRATED TO THE SATISFACTION OF THE ENGINEER.

Mechanical Sheet List

Sheet Number	Sheet Name
10005-IRB-XX-ZZ-D-M-57-01	DRAWING LIST, KEYPLAN, GENERAL NOTES
10005-IRB-XX-GF-D-M-57-02	SITE PLAN - ASHP COMPOUND
10005-IRB-XX-GF-D-M-57-03	BOILER ROOM & MEZZ LEVEL - MECHANICAL MODIFICATIONS
10005-IRB-XX-ZZ-D-M-57-04	MECHANICAL HYDRONIC SCHEMATIC
10005-IRB-XX-ZZ-D-M-57-05	MECHANICAL CONTROLS SCHEMATIC



1 KEYPLAN - SCOPE OF WORK
1: 500

A1 ORIGINAL SIZE DRAWING

03	ISSUED FOR TENDER	AM	28/08/26
02	STAGE 2b FOR FINAL REVIEW	AM	05/08/26
01	STAGE 2b FOR REVIEW	AM	17/07/26
No.	REVISION	CHK	DATE

**Introba**

INTROBA IRELAND LTD
CATHEDRAL COURT
NEW ST SOUTH
THE LIBERTIES
DUBLIN 8
D08 C525

CLIENT
LMETB

PROJECT
RSTC DUNDALK

TITLE
DRAWING LIST, KEYPLAN,
GENERAL NOTES

DATE28.08.2026SCALEAS NOTED

DESIGNEDSPMCHECKEDAMAPPROVEDAM

SUITABILITY CODEA3SUITABILITY DESCRIPTIONFOR TENDER

DRAWING STATUSSTAGE 2b

DRAWING No.10005-IRB-XX-ZZ-D-M-57-01REVISIONT01