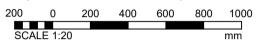
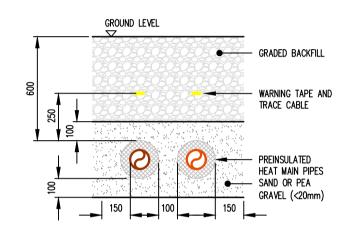


<u>DETAIL 01 — HEATING MAINS TRENCH DETAIL</u>





<u>DETAIL 02 - HEATING MAINS TRENCH DETAIL</u>

200 0 200 400 600 800 1000

#### General Notes:

This drawing should be read in conjunction with the relevant Etch Associates specifications and technical schedule documents.

This drawing should be read in conjunction with all relevant design

All apparent drafting errors or discrepancies with other design documents shall be identified as soon as possible and brought to the attention of Etch

Do not scale from this drawing.

#### Project Notes:

THIS DESIGN CONSTITUTES A PERFORMANCE SPECIFICATION FOR A DESIGN & BUILD CONTRACT, THE INDICATIVE SERVICES LAYOUTS/ARRANGEMENTS ARE PROVIDED TO CONVEY DESIGN INTENT ONLY. THE APPOINTED CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLETING THE DESIGN, INSTALLATION AND SETTING TO WORK OF THE DESCRIBED SYSTEMS.

<u>DO NOT USE THIS DRAWING FOR CONSTRUCTION</u> — THE CONTRACTOR SHALL PRODUCE A COMPLETE SET OF COORDINATED INSTALLATION DRAWINGS THAT SHALL BE SUBMITTED TO THE CLIENT TEAM FORE REVIEW BEFORE COMMENCEMENT OF WORKS.

3. THE WORKS ARE TO BE COMPLETED IN TWO PHASES;
3.1. THE FIRST SHALL INCLUDE ALL EXTERNAL WORKS WITH PIPEWORK AS DETAILED ON

THE EXTERNAL SERVICES LAYOUT, INSTALLED UP TO THE POINT OF ENTRY TO THE PLANT ROOM AND TESTING OF THE PIPEWORK. 3.2. THE SECOND SHALL INVOLVE INSTALLING PIPEWORK THROUGH THE BASEMENT WALL AND CONNECTING INTO THE PLANT ROOM, INSTALLATION OF ALL PLANT ROOM SERVICES AS DETAILED ON THE PLANT ROOM LAYOUT, TESTING AND COMMISSIONING OF THE INSTALLATION AND DOCUMENTATION AND DEMONSTRATION

THE FIRST PHASE OF WORKS SHALL BE CARRIED OUT AS A STANDALONE ELEMENT OF WORK, REFER TO THE CONTRACT PRELIMINARIES FOR DETAILS.

THE SECOND PHASE OF WORKS WILL BE CARRIED OUT AS PART OF A MAIN REFURBISHMENT PROJECT FOR THE BUILDING. SEPARATE MECHANICAL & ELECTRICAL CONTRACTORS SHALL BE APPOINTED FOR THESE WORKS AND SHALL INSTALL NEW HEATING, DOMESTIC HOT & COLD WATER SERVICES AND BMS SERVICES AS WELL AS POWER SUPPLIES THAT WILL INTERFACE WITH THE GROUND SOURCE HEAT PUMP INSTALLATION. THE DELINEATION OF SCOPE IS IDENTIFIED ON THE SYSTEM SCHEMATIC. IN GENERAL THE GSHP CONTRACTOR SHALL INSTALL ALL NECASSARY PLANT FOR THE OPERATION AND COMMISSIONING OF THE GSHP, THIS INCLUDES THE LTHW BUFFER VESSEL AND THE CALORIFIER AND ASSOCIATED EXPANSION VESSELS, SAFETY RELIEF VALVES AND ISOLATION VALVES. THIS SHALL ALLOW THE SYSTEM TO BE COMMISSIONED AND OPERATION DEMONSTRATED. THIS DELINEATION WILL SERVE AS THE BOUNDARY OF RESPONSIBILITY WITH THE SYSTEM IN THE EVENT THAT THERE IS A SYSTEM FAULT THAT NEEDS TO BE RECTIFIED. ALLOW FOR ALL NECESSARY COORDINATION WITH THE OTHER PARTIES TO DELIVER A FULLY COORDINATED SYSTEM, COMMISSIONED AND LEFT IN FULL

. THE SERVICES TO BE INSTALLED BY OTHERS HAVE BEEN GREYED OUT ON THE DRAWINGS, THEY DO NOT FORM PART OF THE SCOPE OF WORKS BUT ARE SHOWN FOR CONTEXT.

#### System Notes:

CONTRACTOR SHALL ALLOW TO CARRY OUT A TOPOGRAPHICAL SURVEY FOR THE ENTIRE AREA TO ENSURE PIPEWORK TRENCHES ARE FULLY COORDINATED. PIPEWORK ROUTES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY, THEY HAVE BEEN COORDINATED WITH THE CURRENT TOPO WHICH DOES NOT FULLY REPRESENT THE SITE ANYMORE.

PIPEWORK ROUTES TO BE COORDINATED WITH EXISTING SEWER & SURFACE WATER DRAINAGE, TREE ROOT PROTECTION ZONES, OTHER LANDSCAPING FEATURES, EXISTING BURIED SERVICES AND BUILDINGS/FOUNDATIONS.

DEPTH OF SERVICES WITHIN TRENCHING TO BE CONFIRMED BY CONTRACTOR BUT TO AT LEAST MEET MINIMUM DEPTHS GIVEN IN TYPICAL DETAILS.

CONTRACTOR TO ALLOW FOR ALL MAKING GOOD TO BUILDINGS AND LANDSCAPING WHERE BUILDERS WORK OR EXCAVATION IS CARRIED OUT TO FACILITATE THE PROPOSED

ALL POLYETHYLENE TUBE AND FITTINGS SHALL BE INSTALLED FULLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ELECTRO-FUSION WELDED.

EACH AND EVERY WELD (BUTT OR ELECTO-FUSION) SHALL BE RECORDED USING AN AUTOMATIC FUSION WELDING KIT LOGGER, REPORTS DETAILING EACH WELD SHALL BE INCLUDED WITH THE O&M MANUAL.

ALL UNDERGROUND BENDS AND SERVICES ENTRIES TO BUILDINGS SHALL BE LONG RADIUS BENDS, AT LEAST 8x THE OUTER PIPE DIAMETER OR IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS — WHICHEVER IS THE GREATER.

8. ALL NEW PIPEWORK SHALL BE PRESSURE TESTED, TEST RESULTS DOCUMENTED AND ISSUED BEFORE SYSTEM BECOMES OPERATIONAL.

9. REFER TO SPECIFICATION FOR FURTHER DETAILS.

T02	RIBA STAGE 3 ISSUE	DRH	LK	DB	11/23
T01	RIBA STAGE 3 ISSUE	DRH	LK	DB	06/23
P02	RIBA STAGE 3 ISSUE	DRH	LK	DB	12/22
P01	RIBA STAGE 2 ISSUE	DB	LK	DB	05/22
Index	Description	Designed	Reviewed	Authorised	Date

## **REVISIONS:**



## ARCHITECT:

LEE/FITZGERALD ARCHITECTS

## CLIENT:



# PROJECT TITLE:

FREWIN HALL REFURBISHMENT FREWIN HALL BRASENOSE COLLEGE

#### OXFORD DRAWING TITLE:

MECHANICAL ENGINEERING SYSTEMS EXTERNAL SERVICES GENERAL ARRANGEMENT SITE PLAN

## RIBA STAGE 3 ISSUE

	DOCUMENT QA:		
	Design:	Review:	Authorising Issue:
	DRH	LK	DB
ć	Office:	Date:	Scale:
·	Office: OXFORDSHIRE	Date: JUN 2023	Scale: 1:100 @ A1

Project Code Orig. Zone Level Type Rate Class Number Revision 011014 EAL EX 00 GA M 390 0001 T02