

IMPORTANT: PLEASE NOTE

Excavation and Underground Services

Extensive underground services are located near and around the perimeter of the buildings. Before work begins, underground cables must be located, identified and clearly marked. When digging or disturbing the earth take care to avoid damaging underground services. Excavation work should be properly managed to control risks.

Underground cables may need to be disconnected for the work to proceed safely. Allow for sufficient notice to be given prior to disconnection of supply.

Careful planning and risk assessments are essential before the work starts. Risk assessments should consider how the work is to be carried out, ensuring local circumstances are taken into account.

Plans and other information about all buried services in the area should be inspected and reviewed to identify locations of services before any excavation work starts. Plans give only an indication of the location and number of underground services. It is essential that a survey is undertaken by a competent person to trace services and cables using suitable locating devices.

The position of the cables in or near the proposed work area should be pinpointed as accurately as possible by means of a locating device. Locators should be used frequently and repeatedly during the course of the work.

Once a locating device has been used to determine cable positions and routes, excavation may take place, with trial holes dug using suitable hand tools where necessary to confirm this.

Excavation work should be carried out carefully and follow recognised safe digging practices.

Excavate alongside the service rather than directly above it. Final exposure of the service by horizontal digging is recommended, as the force applied to hand tools can be controlled more effectively.

Insulated tools should be used when hand digging near electric cables.

General Electrical Information

HSE and other organisations have produced guidance on electrical safety.

The HSE booklet HSG47 "Avoiding danger from underground services" gives guidance on how to manage the risks of digging near underground cables.

The Electricity Networks Association (ENA) publication "Watch Out, Cables About!" also provides advice when digging in the vicinity of underground electric cables.

PROPOSED SCOPE OF WORKS



Areas of roofs to Palace Green Library, (over the Wolfson Gallery, Deane Room and Library Stairwell), & the Education and Learning Centre to be fully refurbished. Refer to drawing 2001 for full extent of works.



Lightning Protection System previously installed under Phase 1 of Works



Phase 2 Works

Supply and Installation and Testing of Structural Lightning Protection to Part 3 of BS EN62305 Allow for connections to previously completed Phase 1 system
On completion of the installation the resistance to earth of the complete installation and of each earth termination to be separately measured and the electrical continuity of all bonds, joints and conductors verified.

Roofing Contractor to affix LPS roof tape to roof membranes to ensure warranty is maintained where required.



Earth Electrode Rods
Driven to a depth of 2.4m by means of hand held percussion hammer.

Locations shown are indicative.

PLANS AND OTHER INFORMATION ABOUT ALL BURIED SERVICES IN THE AREA SHOULD BE INSPECTED AND REVIEWED TO IDENTIFY LOCATIONS OF SERVICES BEFORE ANY EXCAVATION WORK STARTS

Final locations to be determined on site and agreed with DU prior to excavations.

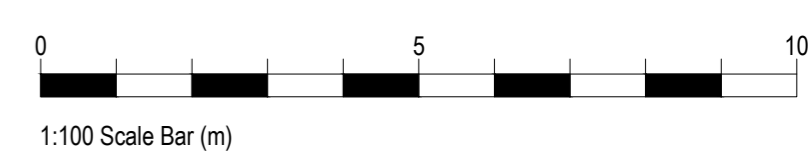
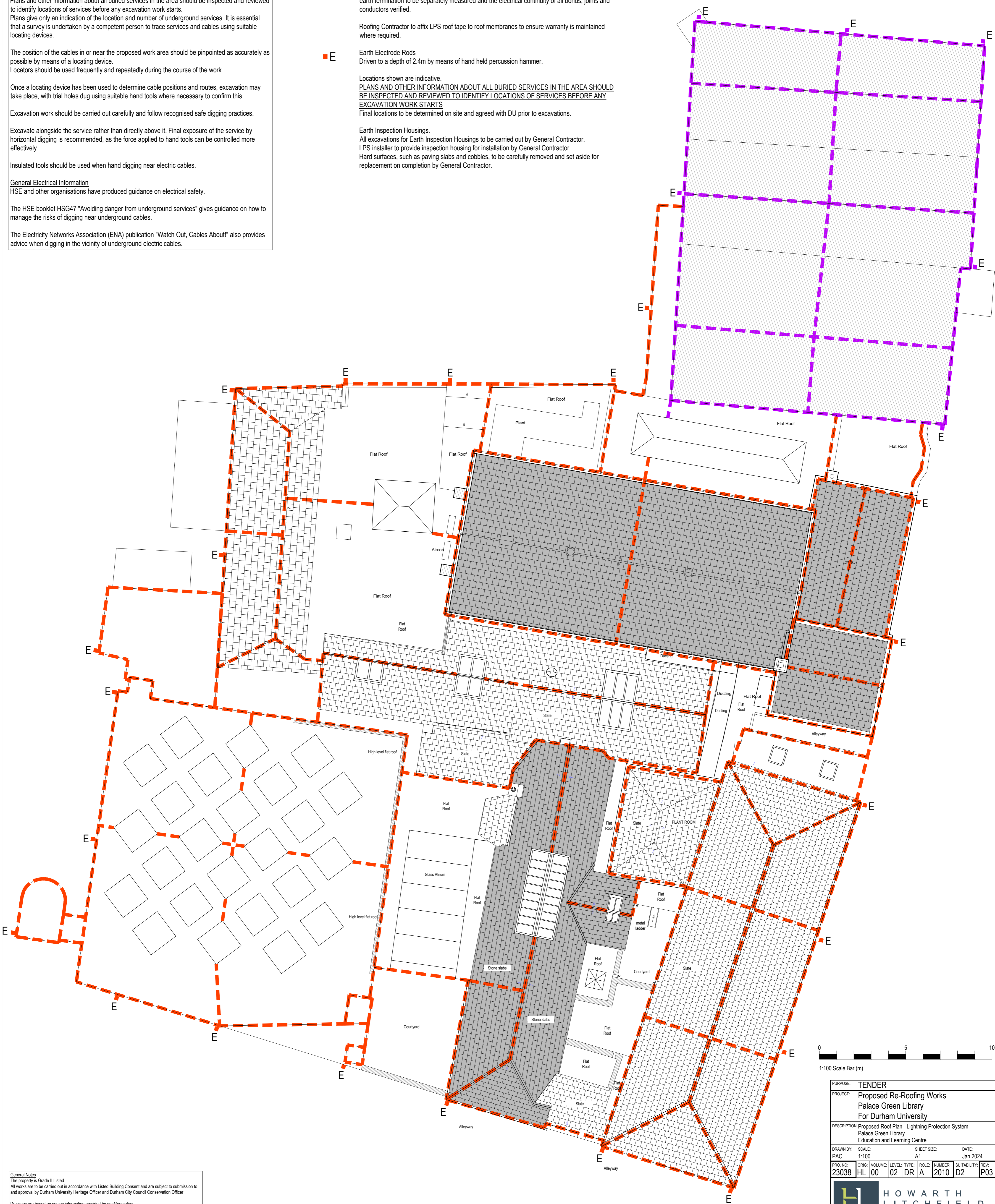
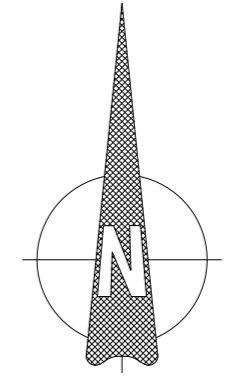
Earth Inspection Housings.

All excavations for Earth Inspection Housings to be carried out by General Contractor. LPS installer to provide inspection housing for installation by General Contractor.

Hard surfaces, such as paving slabs and cobbles, to be carefully removed and set aside for replacement on completion by General Contractor.

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REV	DESCRIPTION	BY	CHKD	DATE
P01	STAGE 3 APPROVAL	PAC	DH	21/02/2024
P02	STAGE 4 APPROVAL	PAC	DH	15/03/2024
P03	Scope of Works extended to include full completion of Phase 2 of LPS installation Locations of Earth Electrode Rods and Inspection Housings indicated Location of Services and Safety Notes added TENDER ISSUE	PAC	DH	05/04/2024



General Notes
The property is Grade II Listed.
All works are to be carried out in accordance with Listed Building Consent and are subject to submission to and approval by Durham University Heritage Officer and Durham City Council Conservation Officer.
Drawings are based on survey information provided by amrGeomatics.
Any surveyed information incorporated within this drawing cannot be guaranteed as accurate unless confirmed by site measurement.
All dimensions given in the descriptions and drawings are approximate.
The Contractor, sub-contractors and suppliers must examine the existing site and drawings to ascertain the full extent of the works and take all necessary dimensions before preparing the tender submission.

PURPOSE:		TENDER	
PROJECT:		Proposed Re-Roofing Works Palace Green Library For Durham University	
DESCRIPTION:		Proposed Roof Plan - Lightning Protection System Palace Green Library Education and Learning Centre	
DRAWN BY:	SCALE:	SHEET SIZE:	DATE:
PAC	1:100	A1	Jan 2024
PROJ. NO.:	ORIG.:	VOLUME:	LEVEL:
23038	HL	00	02
DR:	DR:	NO.:	SUITABILITY:
DR	DR	2010	D2
REV:	REV:	REV:	REV:
			P03

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