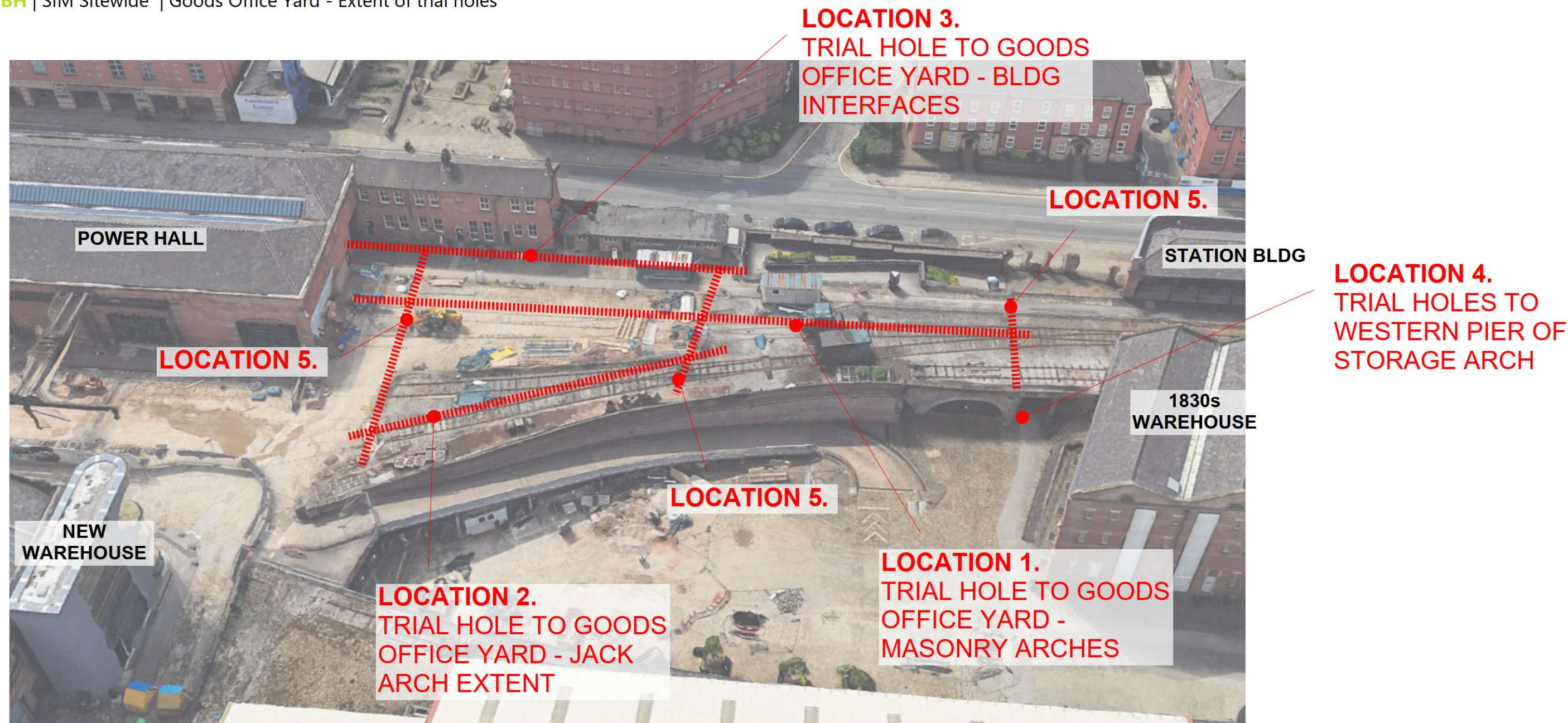




PURPOSE

A SERIES OF TRIAL HOLES ARE PROPOSED TO INFORM WORKS TO REMEDIATE SEVERAL ONGOING ISSUES WITH HISTORIC FABRIC AT SIM - NAMELY ONGOING WATER INGRESS TO THE UNDERCROFT AREA, AND STRUCTURAL DEFICIENCIES OF THE 'STORAGE ARCH'.

METHODOLOGY

LOCATIONS ARE CURRENTLY NOTED AS A WORST CASE 'STRIP' WHICH MAY REQUIRE EXCAVATION. IF REQUIRED THE FULL LENGTH OF EACH STRIP WILL BE EXCAVATED, HOWEVER IT IS ANTICIPATED THAT ONLY DISCRETE TRIAL PITS WILL BE LOCATED ALONG EACH STRIP LENGTH. TBC ON SITE.

STRIPS OR TRIAL HOLES ARE TO BE C. 1.25x1.25m MAX WIDE TO AVOID IMPACTING LOADING ONTO UNDERLYING STRUCTURES.

WHERE 1.25m WIDE EXCAVATIONS ARE NOT ADEQUATE TO SAFELY REACH THE REQUIRED DEPTH, DEEPER INVESTIGATIONS WILL GENERALLY BE UNDERTAKEN BY VERTICAL CORING. METHODOLOGY TBC BY CONTRACTOR.

IN ALL LOCATIONS, SAMPLES MAY BE TAKEN OF EXISTING MASONRY TO DETERMINE MASONRY THICKNESS, STRENGTH, MORTAR ETC. THESE MAY INCLUDE THE REMOVAL OF SINGLE BRICKS OR OF SMALL DIAMETER CORE SAMPLES (MAX 150MM DIAM).

**LOCATION 1
GOODS YARD - MASONRY ARCHES**

PURPOSE:

- IDENTIFY DEPTH OF TOP OF MASONRY ARCHES.

- IDENTIFY CONSTRUCTION TYPE & WEIGHT OF EXISTING ABOVE-ARCH BUILD-UP.

- DETERMINE DETAILS FOR EXISTING WATERPROOFING / DRAINAGE.

- CARRY OUT CONTAMINATION SURVEY OF BACKFILL MATERIAL.

METHODOLOGY:

AS PER NOTES OPPOSITE.

**LOCATION 2
GOODS YARD - JACK ARCHES**

PURPOSE:

AS PER LOCATION 1

METHODOLOGY:

AS PER NOTES OPPOSITE.

**LOCATION 3
GOODS YARD - EXISTING BLDG INTERF.**

PURPOSE:

- IDENTIFY FOUNDATION DETAILS FOR EXISTING BUILDINGS.

- IDENTIFY INTERFACE BETWEEN EXISTING BUILDINGS & ANY UNDERLYING HISTORIC STRUCTURES.

- DETERMINE DETAILS FOR EXISTING WATERPROOFING / DRAINAGE.

METHODOLOGY:

AS PER NOTES OPPOSITE.

**LOCATION 4
WEST PIER OF STORAGE ARCH**

PURPOSE:

- IDENTIFY FOUNDATION DETAILS FOR EXISTING ARCH.

- CROSS CHECK AGAINST HISTORIC REPORTING ON ARCH.

- INVESTIGATE POSSIBLE ISSUES WITH EXISTING FOUNDATIONS.

- ASSESS FEASIBILITY OF POSSIBLE REPAIRS TO ARCH FOUNDATIONS.

METHODOLOGY:

GENERALLY AS PER NOTES OPPOSITE.

TRIAL PITS MAY BE PLACED ANYWHERE ALONG WESTERN PIER - TO BOTH INSIDE & OUTSIDE FACES. DEPTH OF TRIAL PITS TO BE DETERMINED ON SITE TO SUIT DEPTH OF FOUNDATIONS.

WIDTH OF PITS WILL BE LIMITED TO AVOID UNDERMINING EXISTING FOUNDATIONS.

**LOCATION 5
CROSS SECTION TRIAL PITS**

PURPOSE:

- AS PER LOCATION 1/2

METHODOLOGY:

- AS PER LOCATION 1/2