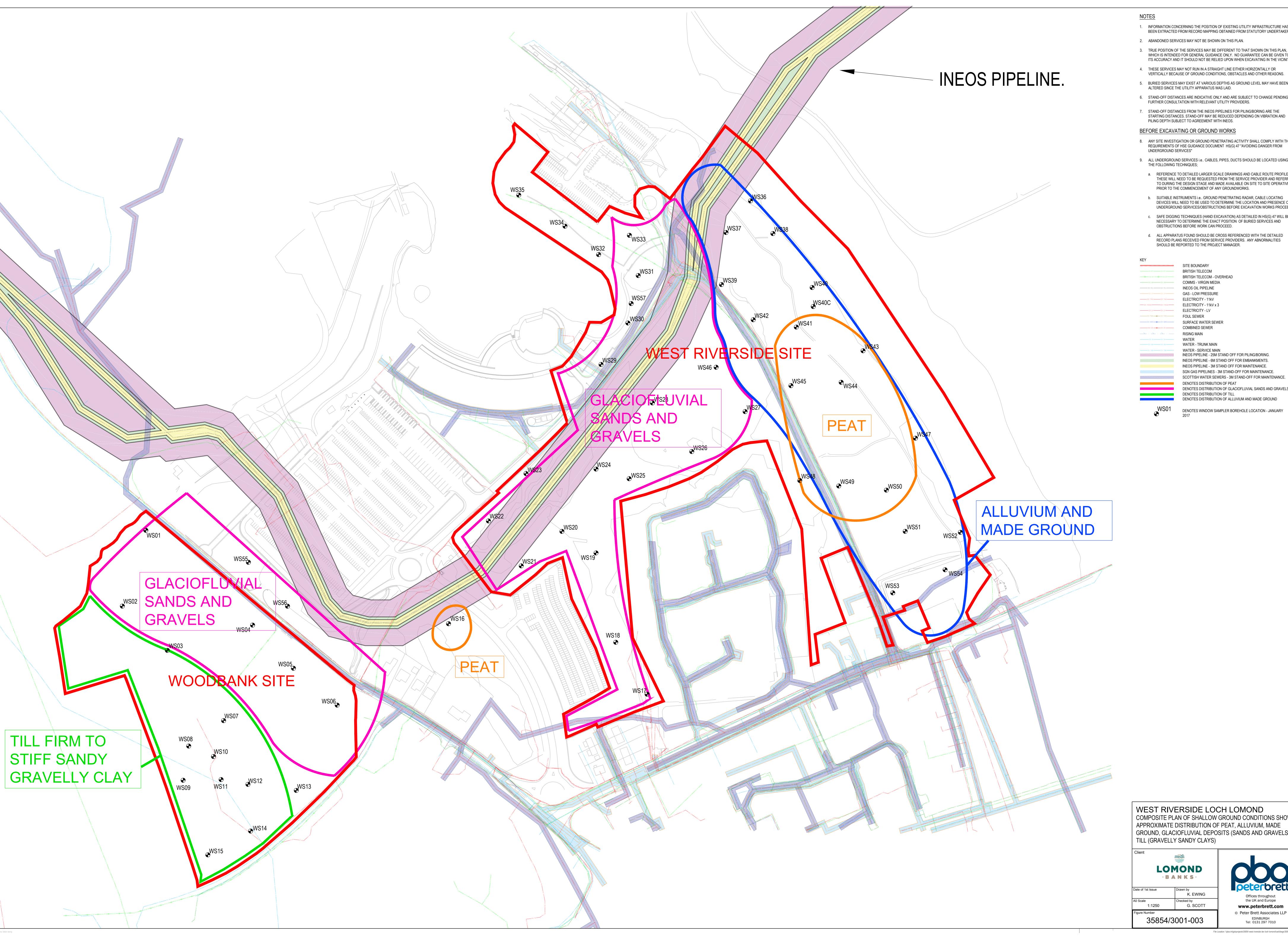


## Appendix 9 – Ground Conditions and Geology

9.1 Figures



1. INFORMATION CONCERNING THE POSITION OF EXISTING UTILITY INFRASTRUCTURE HAS BEEN EXTRACTED FROM RECORD MAPPING OBTAINED FROM STATUTORY UNDERTAKERS.

2. ABANDONED SERVICES MAY NOT BE SHOWN ON THIS PLAN.

3. TRUE POSITION OF THE SERVICES MAY BE DIFFERENT TO THAT SHOWN ON THIS PLAN, WHICH IS INTENDED FOR GENERAL GUIDANCE ONLY. NO GUARANTEE CAN BE GIVEN TO ITS ACCURACY AND IT SHOULD NOT BE RELIED UPON WHEN EXCAVATING IN THE VICINITY.

4. THESE SERVICES MAY NOT RUN IN A STRAIGHT LINE EITHER HORIZONTALLY OR VERTICALLY BECAUSE OF GROUND CONDITIONS, OBSTACLES AND OTHER REASONS.

5. BURIED SERVICES MAY EXIST AT VARIOUS DEPTHS AS GROUND LEVEL MAY HAVE BEEN ALTERED SINCE THE UTILITY APPARATUS WAS LAID.

6. STAND-OFF DISTANCES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE PENDING FURTHER CONSULTATION WITH RELEVANT UTILITY PROVIDERS.

7. STAND-OFF DISTANCES FROM THE INEOS PIPELINES FOR PILING/BORING ARE THE

## BEFORE EXCAVATING OR GROUND WORKS

8. ANY SITE INVESTIGATION OR GROUND PENETRATING ACTIVITY SHALL COMPLY WITH THE REQUIREMENTS OF HSE GUIDANCE DOCUMENT HS(G) 47 "AVOIDING DANGER FROM UNDERGROUND SERVICES"

9. ALL UNDERGROUND SERVICES i.e., CABLES, PIPES, DUCTS SHOULD BE LOCATED USING THE FOLLOWING TECHNIQUES;

a. REFERENCE TO DETAILED LARGER SCALE DRAWINGS AND CABLE ROUTE PROFILES. THESE WILL NEED TO BE REQUESTED FROM THE SERVICE PROVIDER AND REFERRED TO DURING THE DESIGN STAGE AND MADE AVAILABLE ON SITE TO SITE OPERATIVES PRIOR TO THE COMMENCEMENT OF ANY GROUNDWORKS.

b. SUITABLE INSTRUMENTS i.e., GROUND PENETRATING RADAR, CABLE LOCATING DEVICES WILL NEED TO BE USED TO DETERMINE THE LOCATION AND PRESENCE OF UNDERGROUND SERVICES/OBSTRUCTIONS BEFORE EXCAVATION WORKS PROCEED.

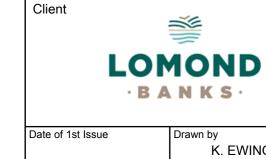
c. SAFE DIGGING TECHNIQUES (HAND EXCAVATION) AS DETAILED IN HS(G) 47 WILL BE NECESSARY TO DETERMINE THE EXACT POSITION OF BURIED SERVICES AND

OBSTRUCTIONS BEFORE WORK CAN PROCEED.

d. ALL APPARATUS FOUND SHOULD BE CROSS REFERENCED WITH THE DETAILED RECORD PLANS RECEIVED FROM SERVICE PROVIDERS. ANY ABNORMALITIES SHOULD BE REPORTED TO THE PROJECT MANAGER.



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