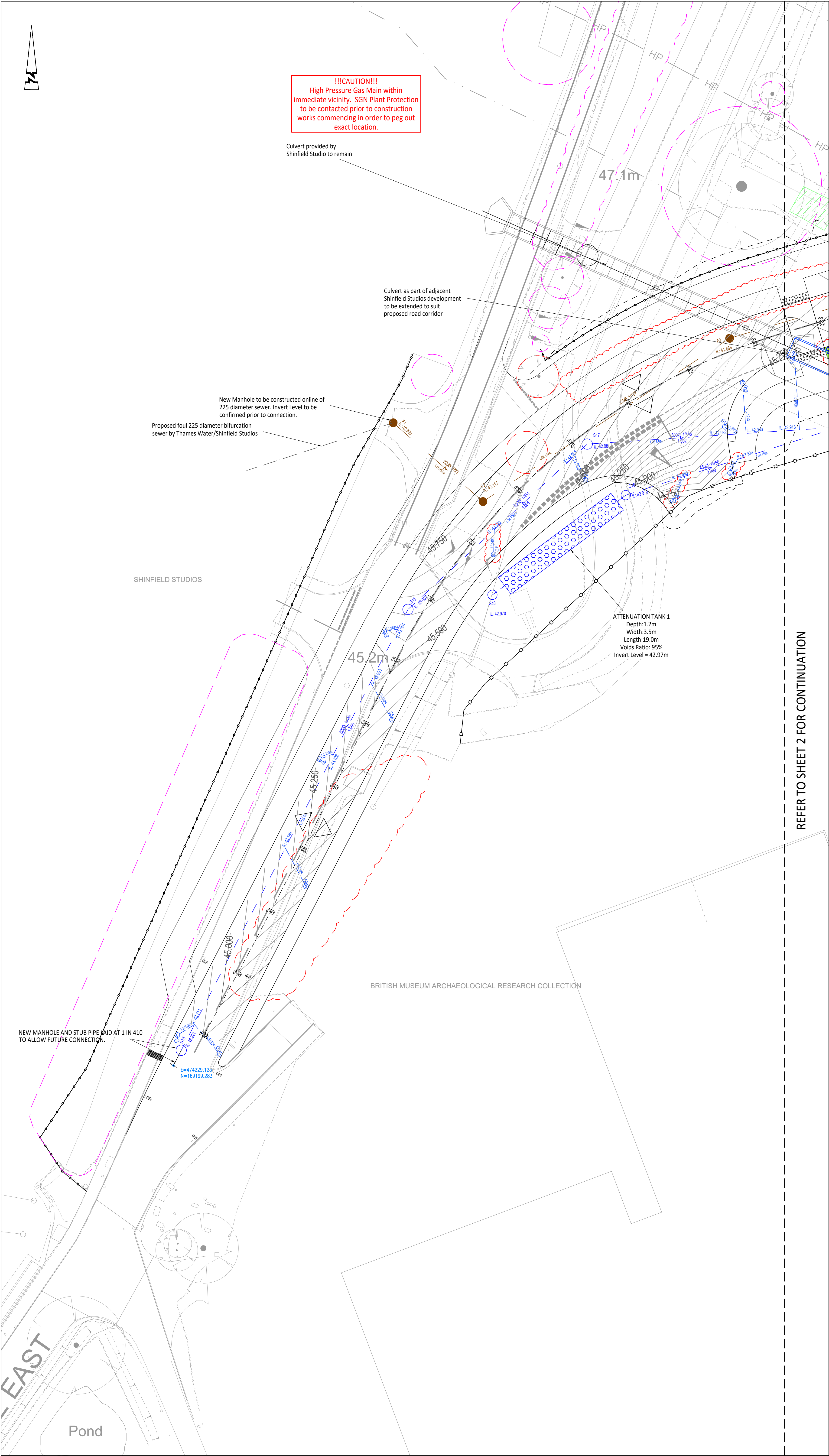




!!!CAUTION!!!
High Pressure Gas Main within
immediate vicinity. SGN Plant Protection
to be contacted prior to construction
works commencing in order to peg out
exact location.

Culvert provided by
Shinfield Studio to remain

Culvert as part of adjacent
Shinfield Studios development
to be extended to suit
proposed road corridor

New Manhole to be constructed online of
225 diameter sewer. Invert Level to be
confirmed prior to connection.

Proposed foul 225 diameter bifurcation
sewer by Thames Water/Shinfield Studios

SHINFIELD STUDIOS

BRITISH MUSEUM ARCHAEOLOGICAL RESEARCH COLLECTION

NEW MANHOLE AND STUB PIPE Laid AT 1 IN 410
TO ALLOW FUTURE CONNECTION.

E=474229.123
N=169199.283

ATTENUATION TANK 1
Depth:1.2m
Width:3.5m
Length:19.0m
Voids Ratio: 95%
Invert Level = 42.97m

© ABLE LETCHFORD PARTNERSHIP LTD.
This drawing should not be reproduced without
consent.

DRAINAGE NOTES:

- Do not scale.
- This drawing is to be read in conjunction with and checked against all other drawings, Engineering details, Specification and any structural, Geotechnical or other specialist document provided.
- Site layout shown for context only, refer to other project drawings for details.
- All adoptable drainage works to be constructed as detailed in design and construction guidance or as stipulated in the water authorities addendum.
- All public sewers are to be the subject of a section 104 agreement of the water industry act 1991.
- Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
- The contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
- All drainage ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below:
- Carriageways and Roads - E600/D400
- Driveways and Verges - C250
- Footways and Pedestrian areas - B125
- Gardens/Landscaping - A15
- All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to be concrete pipes to BS EN1916. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN1404.
- All drainage shall be installed and tested strictly in accordance with the manufacturers' printed instructions, BS EN 752, BS EN 1501, local water authority requirements and the building regulations.
- All bedding shall be class s unless noted otherwise.
- All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted type 1 granular sub-base material.
- Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
- Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
- The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
- All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the engineer.
- All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with document h of the building regulations, together with nbc standards chapter 5.3 and BS8301.
- Geocellular storage tanks to have 2 manholes either side, as per manufacturer's specifications.

ALL STUB PIPES TO BE SECURELY SEALED
AGAINST INGRESS OF GROUNDWATER. STUB
PIPES LOCATION/DEPTH TO BE SURVEYED AS
PART OF AS BUILT RECORDS BY CONTRACTOR.

KEY:

- Proposed Surface Water Network
- Proposed Foul Water Network
- Proposed section of pipe with concrete protection (where cover less than 1.2m)
- Proposed Road gully and connection
- Proposed ACO Kerb Drain HB405 (or similar) with silt traps/access units every 20m.
- Proposed ACO Kerb Drain HB405 flush drainable unit (or similar) with associated drop kerb units as required.
- Proposed Road side Filter drain
- Proposed Pre-cast concrete Headwall
- Proposed stone pitched headwall
- Attenuation Basin
- Existing Foul Sewer
- Foul Water sewer by others
- Existing ditch to be regraded
- Surface water lateral to be sealed and capped with plastic capping unit
- Foul water lateral to be sealed and capped with plastic capping unit
- Proposed Road crossfall
- Attenuation Tank
- Tree Root Protection Zones
- Trees to be removed to facilitate development
- Swale (Depth: 0.3m)

0 2 4 6 8 10m
Scale 1:250

P6	08/24	Updated following WBC comments; crossfall adjusted around bend with kerbs and swale amended to suit, cycle lane to join carriageway removed. Gully references and lengths added, pipe lengths added and lateral connections updated with key updated to suit.	LC	SM
P5	07/24	Fence line adjusted west side of Calbush Lane	SM	SM
P4	07/24	BM access updated with drainage amended to suit. Gullies & MH moved accordingly.	LC	SM
P3	05/24	Amended following design team review	AS	SM
P2	04/24	Amended following review	LC	SM
P1	04/24	First issue	AS	SM
Rev	Date	Description	Drawn	Checked



3 Tealgate, Charnham Park
Hungerford, Berkshire RG17 0YT
www.alpce.co.uk Tel: 01488 684390

Client	UNIVERSITY OF READING		
Project	THAMES VALLEY SCIENCE PARK PRIMARY INFRASTRUCTURE		
Title	NHM ACCESS ROAD DRAINAGE LAYOUT SHEET 1		
Status			
Scale	1:250 @ A1	Date	APRIL 2024
Drawn	AS	Checked	SM
Drawing No	HD065-501		Revision
			P6