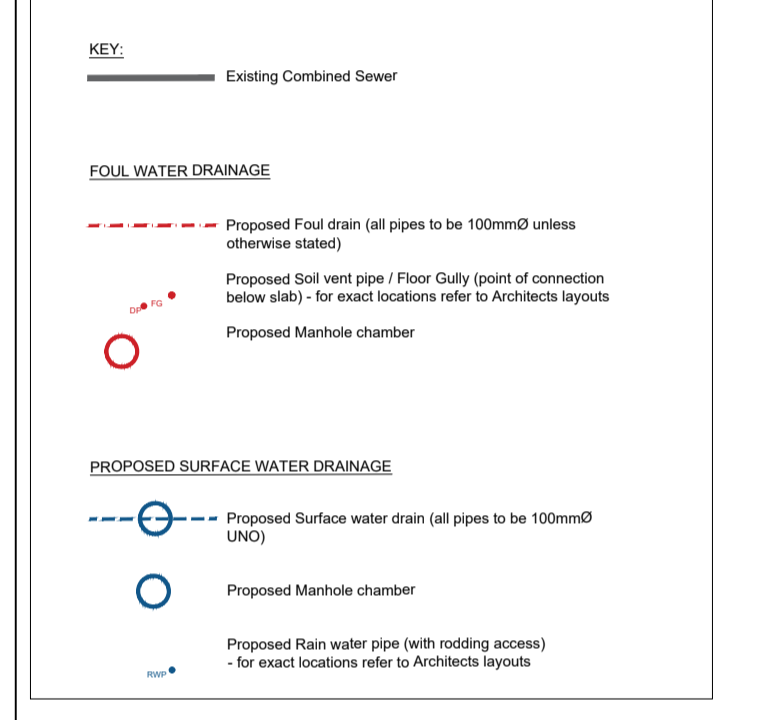


Existing combined sewer connection to be re-used.
Exact invert to be confirmed via trial pitting

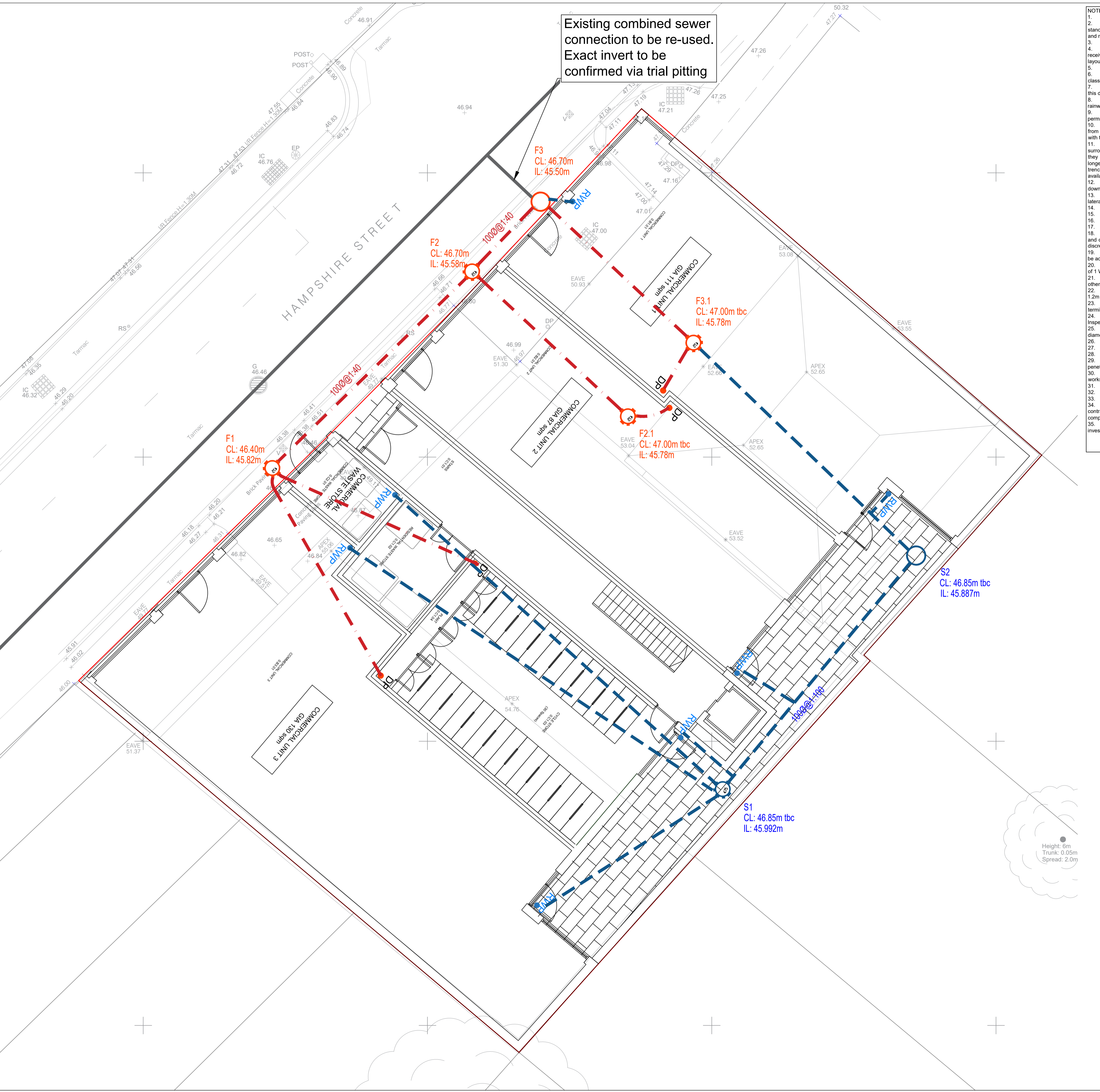
- NOTES:**
- This drawing should be read in conjunction with the standard details.
 - All building drainage works shall be carried out in accordance with the current British/European standards BS EN 752, the current building regulations and the local authority building control specifications and requirements.
 - For external finished ground levels refer to architects external works drawing.
 - External covers installed in areas of paving to be square with recessed cover and frames suitable for receiving the appropriate paved surface. Cover positions to be co-ordinated with the architects external layout drawings to minimise paving cutting.
 - Covers to all internally located chambers and access points to be double sealed and bolted down.
 - Cover in vehicular trafficked areas to be class D400, covers in non-vehicular trafficked areas to be class B125.
 - For all setting out, dimensions and current site layout refer to architects drawing. Do not scale from this drawing.
 - Exact location of rainwater downpipes and all internal drainage points to be confirmed by architect, rainwater pipe outlets to be rodable.
 - Exact location of rainwater downpipes and all internal drainage points to be confirmed by architect, rainwater pipe outlets to be rodable.
 - The contractor shall allow for the protection, temporary and permanent support, and temporary and permanent diversion works, as necessary to all existing services.
 - The contractor shall allow for keeping trenches and excavations as dry as practicable by pumping from temporary sumps and de-watering as appropriate. The point and method of discharge to be agreed with the drainage authority and environment agency.
 - Disused foul and surface water drains up to 225mm diameter, together with any bed or haunch or surround within 1m of formation level shall be removed, drains over 1m below formation shall be left unless they conflict with proposed foundations of structural footprints. The ends of existing drains and sewers no longer required because of alterations to the drainage layout shall be sealed with gen3/c20 concrete, all trenches formed to removed abandoned drains shall be backfilled with selected site won material where available.
 - Contractor to verify the route, level and connectivity of the receiving foul and surface water sewers downstream of the site and obtain all necessary approvals from w/p prior to commencement.
 - Root barrier where with 5.0m of mature tree canopy.
 - Inspection chambers to have min class B125 single seal cover and frame externally.
 - Refer to drainage details.
 - Invert levels of all outfall points to be confirmed prior to commencing drainage works. Position size and depth of all existing drains and services shall be established prior to commencement on site and any discrepancies reported to engineer.
 - All abandoned sewers to be surveyed by CCTV to identify and confirm presence of any retained/live lateral connection.
 - Room use and required drainage fixtures to be confirmed by architect.
 - Root barrier where with 5.0m of mature tree canopy.
 - Inspection chambers to have min class B125 single seal cover and frame externally.
 - Refer to drainage details.
 - Invert levels of all outfall points to be confirmed prior to commencing drainage works. Position size and depth of all existing drains and services shall be established prior to commencement on site and any discrepancies reported to engineer.
 - All drainage works to be constructed from the outfall towards the head of run to ensure the outfall can be achieved.
 - All foul private pipes to be 100mm diameter unless otherwise stated. Where connected to a minimum of 1 WC pipes to be laid at a minimum gradient of 1:80, otherwise min 1:40.
 - All surface private drainage pipes to be 100mm diameter with a min gradient of 1:100 unless otherwise stated.
 - Type Z pipe bedding to be applied where cover is less than 1.2m. For pipe with a cover greater than 1.2m a type S bedding is to be applied. Additionally pipes in the vicinity of buildings.
 - All SVP stacks to terminate with an air admittance valve at the head of a run where the SVP should terminate above roof level.
 - All drainage arrangements are to be carried out to the satisfaction of the Local Authority building Inspector onsite.
 - All pipes below 300mm diameter to be vitrified clay or similar approved. All pipes above 300mm diameter to be concrete or similar.
 - Vitrified clay pipes and fittings shall comply with the relevant provisions of BS EN 295-1.
 - Concrete pipes and fittings shall comply with the relevant provisions of BS EN 1916 and BS 5911-1.
 - All private drainage works to be carried out in accordance with Building Regulations Part H.
 - Private foul water drainage route under slab are shown inductively, bedding, pipe material and penetration of proposed wall details by others.
 - Locations and levels of existing manholes and outfalls to be verified onsite prior to commencement of works - very important.
 - Gradients are indicated for hydraulic not setting-out purposes.
 - Minimum backstop height shall be 1m.
 - All levels shown are levels above Ordnance Datum.
 - Prior to infilling of ditches or abandonment of any existing drainage courses or piped sewers the contractor shall put in place measures to maintain or divert existing drainage routes and sewers pending completion of proposed drainage systems.
 - The presence of services on site should be verified prior to any construction work or intrusive investigations.

DO NOT SCALE DRAWING -
IF IN DOUBT, ASK

- GENERAL**
- Do not scale from drawing.
 - All dimensions are in metres, unless stated otherwise.
 - This drawing to be read & printed in colour.
 - This drawing to be read in conjunction with other contract drawings.
- CONSTRUCTION**
- Works shall comply with the current Department of Transport Specification for Highway Works.
 - Filling of voids formed by site clearance operations shall be measured under Series 600 of the Specification.
 - Contractor is to ensure that all voids are to be filled with granular sub base material Type 1.
 - All hard material broken out under the Contract is to be disposed of to contractor's tip.
- CDM (RISKS & HAZARDS)**
- Prior to commencement of construction the contractor is to liaise with all relevant statutory undertakers and protect / divert apparatus and to protect the workforce during the works. Any damage caused to the apparatus to be the responsibility of the contractor.
 - Contractor to undertake their own statutory plant checks on site prior to the commencement of excavation exercise.
 - The contractor is to make sure that any excavation should be adequately covered at night to protect both public and wildlife from becoming trapped.
 - Appropriate health and safety measures should be adhered to while working in close proximity to the existing overhead power lines.
- DISCLAIMERS**
- The information contained in this drawing is based on a combination of OS and survey data provided by others and we shall not be liable for any inaccuracies or deficiencies.



F1	COVER	I	A	45.82m
		N	B	
		V	C	
	DIAMETER	E	D	
F2	COVER	I	A	45.58m
		N	B	45.58m
		V	C	
	DIAMETER	E	D	
F3	COVER	I	A	45.50m
		N	B	45.50m
		V	C	45.50m
	DIAMETER	E	D	
S1	COVER	I	A	45.992m
		N	B	45.992m
		V	C	45.992m
	DIAMETER	E	D	45.992m
S2	COVER	I	A	45.887m
		N	B	45.887m
		V	C	
	DIAMETER	E	D	
F2.1	COVER	I	A	45.78m
		N	B	
		V	C	
	DIAMETER	E	D	
F3.1	COVER	I	A	45.78m
		N	B	
		V	C	
	DIAMETER	E	D	



P1	AN	AN	10.12.19	Preliminary Issue
Rev	Drawn	App'd	Date	Revision Description

Issue **PRELIMINARY**

Client

Project
1 Hampshire Street London

Title
Drainage GA

Scale: 1:75 @ A1
Date: Dec '19

Drawn By: A.Norris
Checked By: A.Norris

Drng. No. **J1769-6001** Rev. **P1**