

SCALE: 1 : 1250 USER ID: LongR DATE: 23/04/2012 EXTRACT DATE: 10/12/2011 MAP REF: TQ2685 CENTRE: 526673, 185653		LP MAINS MP MAINS IP MAINS LHP MAINS NHP MAINS	<p>This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm). A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.6.6.0 Local Machine This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.
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Some examples of Pipe Items:

Valve

Depth of Cover

Syphon

Diameter Change

Material Change

SCHEME DESIGN ONLY: FINAL
DESIGN SUBJECT TO FURTHER
INVESTIGATIONS & TEMPORARY
WORKS BY CONTRACTOR

REINFORCED CONCRETE
BEAMS / CONCRETE
ENCASED STEELS OVER.

MIN 200 MG R.C BASE
SLAB TIED INTO R.C.
RETAINING WALLS DESIGNED
TO RESIST HEAVE FROM
LONDON CLAY.

Min $2N^0$
TRANSITION UNDER PINS

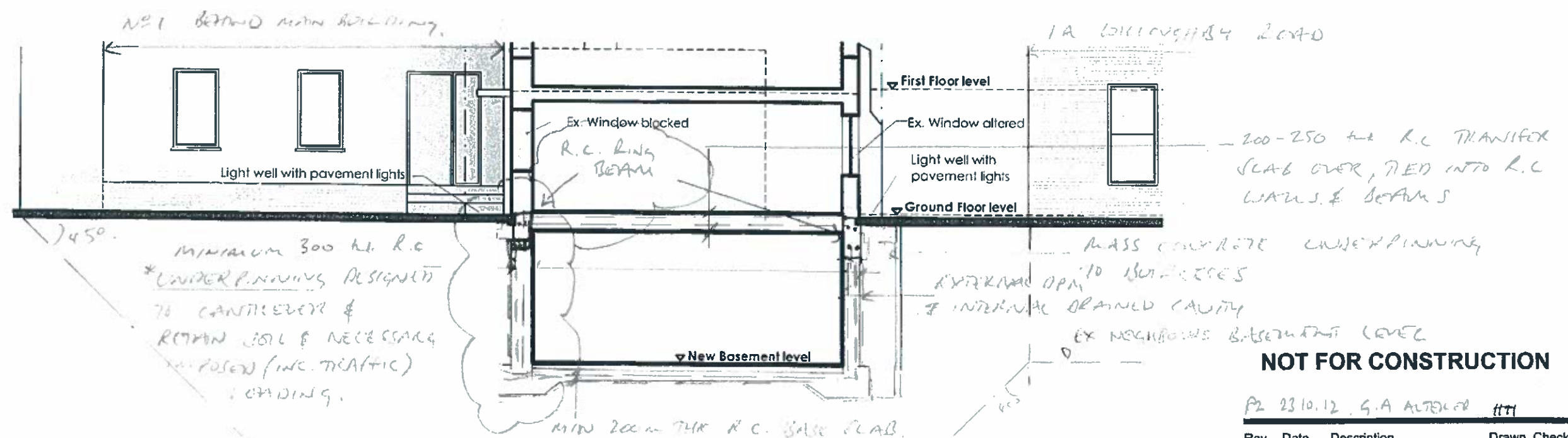
This drawing must be read in conjunction with the specification and all other relevant drawings. Do not scale from this drawing.

MIN 300 kg L.C
UNDERPINNED REMAINING
- 1.00M FOOTING WIDTH
= EXISTING.

LOTH REPAIRING INTERNAL PAXATIONS:
150m. THICK R.C. LAMINAE ON SLAB
THICKENINGS

MIN 300 mm REINFORCED
UNDERPINNING / RETAINING WALL WITH
600 sq x 4500 RC LINK BEAM OVER
INTERNAL TANKING / DRAINED CAVITY &
INSULATION BY ARCHITECT

REINFORCED CONCRETE SLAB
OVER SUPPORT STRUCTURE
ABOVE & RES CHANDS FLOOR
BASE OR WATER TOGETHER
DURING CONSTRUCTION & IN
PERMANENT CONDITION.



* STAGED CONSTRUCTION PROCESS IN MAX. 1000 m SECTIONS TO AVOID UNDERTAKING EXISTING CONSTRUCTION & SURROUNDING TRAFFICKED AREAS.

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Project
3 TRINITY CLOSE

Title
STRUCTURAL SCHEME
BASEMENT PLAN & SECTION S'TH-N'TH

P2 23.10.12 G.A. ALTECER HTH

Rev	Date	Description	Drawn	Check
Drawing Status			Project No	
PRELIMINARY			120445	
Date	Drawn		Drawing No	
JUNE 2012	HH		S100	
Scale	Engineer		Revision	
1:100@A3	HH		P2	

SCHEME DESIGN ONLY: FINAL
DESIGN SUBJECT TO FURTHER
INVESTIGATIONS

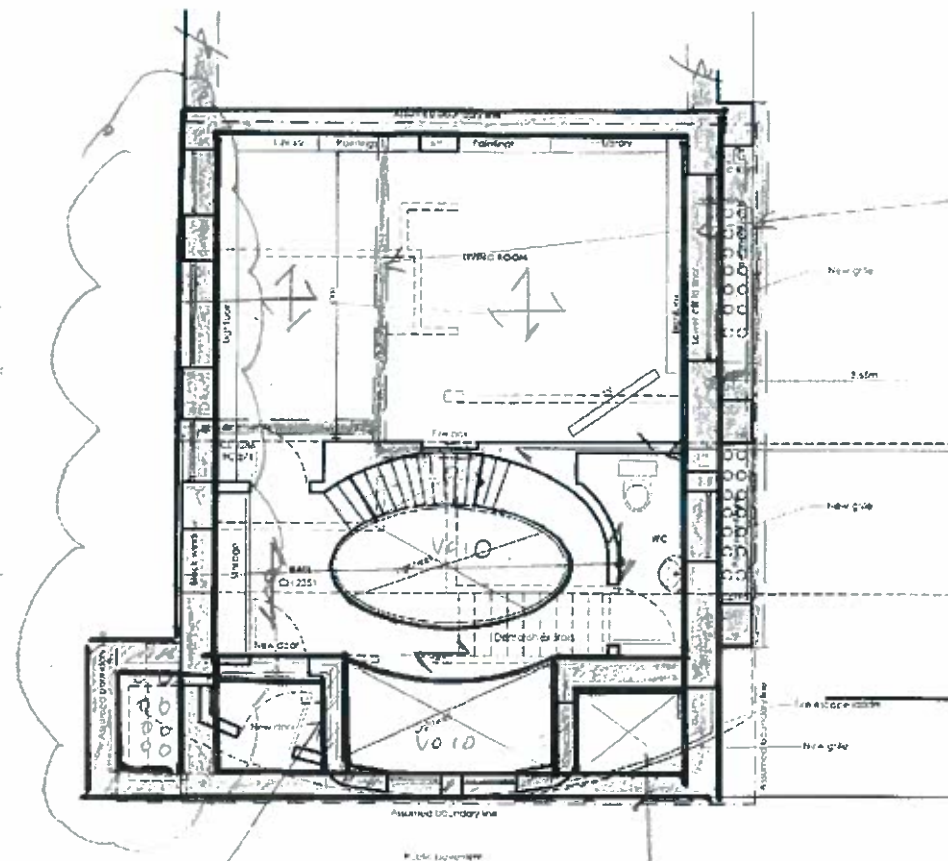
TEMPORARY WORKS W/LL
LATERAL RESTRAINT BY
CONTRACTOR: TO BE CHECKED
BY S.E.

150-200 mm
R.C. SLABS.

100-250mm THICK
R.C. TRANSFER SLAB
PICK UP LOAD BEARING
WALL

R.C. BEAM TIED
INTO SLAB BEING NEW REINFORCED
BLOCKWORK / BLOCKWORK WALL

R.C. RING BEAM
FORMED PRIOR TO
BASEMENT WORKS
(SACRIFICIAL STUBS TO
ENABLE CONTINUOUS BEAM
TO BE FORMED)



ALL SHADED AREAS ARE
LOAD BEARING ELEMENTS
FROM BELOW, NEW R.C.
SLAB & BEAM TIED
INTO ALL SUPPORTING ELEMENTS

R.C. UPSTAND BEAM
SUPPORTS GROUND FLOOR
SLABS.

NOT FOR CONSTRUCTION

P2 23/10/12 LAYOUT CHANGE HH

Rev	Date	Description	Drawn	Check
Drawing Status			Project No	
PRELIMINARY			120445	
Date		Drawn	Drawing No	
JUNE 2012		HH	S101	
Scale		Engineer	Revision	
1:100@A3		HH	P2	

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Project
3 TRINITY CLOSE

Title
STRUCTURAL SCHEME
GROUND FLOOR PLAN



P2 23.10.12. Ling & Gamm

74

Rev	Date	Description	Drawn	Check
Drawing Status			Project No	
PRELIMINARY			120445	
Date		Drawn	Drawing No	
JUNE 2012		HH	S200	
Scale		Engineer	Revision	
1:100@A3		HH	P2	

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Title
STRUCTURAL SCHEME
SECTION EAST-WEST

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Consulting Structural Engineers
Consulting Civil Engineers

project
3 Trinity Close

job no.
120445

drg no.
SSK001

title
**Suggested sequencing and approach
to construction of basement**

scale **NTS**
date **OCT'12**
drawn **HH**
checked

rev

date

SUGGESTED CONSTRUCTION TECHNIQUES / SEQUENCING.

It is proposed to dig an approx 3m deep basement below no 3 Trinity Close. This will entail reinforcement concrete retaining walls to all four sides of the property below existing load-bearing walls. This is designed to retain soil passive pressures and active pressures of water and imposed highway loading.

It is proposed to create a reinforced concrete ring beam about the top of the new wall, below the existing walls, and the main ground floor slab prior to digging out the basement. This will act as a restraint to the top of the (propped) cantilever wall and enable a large part of the construction to be 'top down' as the material is excavated below.

The ring beam would be constructed using a pynford style sequence, with a number of sacrificial stubs being fitted and packed up to the walls to enable the existing structure to be supported whilst the ring beam is formed and cast. By the highway, the sacrificial stud may be horizontal rather than vertical to retain the pavement in a similar manner. The ring beam is then dry packed up to the existing structure.

Internally, the existing floor is dug out and the new ground floor reinforced slab is cast in situ, tied into the ring beam. Mini-piling techniques will be advised to enable load bearing walls to be constructed in the basement prior to the digout, which will be faced in concrete.

The dig out to the front of the basement may now take place, with the reinforced concrete retaining wall being dug out and formed in no more than 1m sections, with a 1m toe. It is tied and packed up to the ring beam.

The basement slab is then cast, tied into the toe of the retaining wall to offer sliding resistance, and so that the slab as a whole may resist any (although slight) anticipated heave from the removal of the dead weight over clay, for which the reinforcement in the slab would be designed.

This form of construction is without the louder vibration, impact and machinery noise associated with techniques such as sheet or driven piling. Where mini-piles are appropriate, e.g. for the internal basement walls, these would be screw or bored piles, which have less or minimal local vibration.

A final construction sequence and method statement would be by the contractor prior to construction, with detailed design of the ring beam, retaining walls, piling and any temporary propping required to ensure the existing building and all party structures and surfaces are properly retained and supported during and after the works.