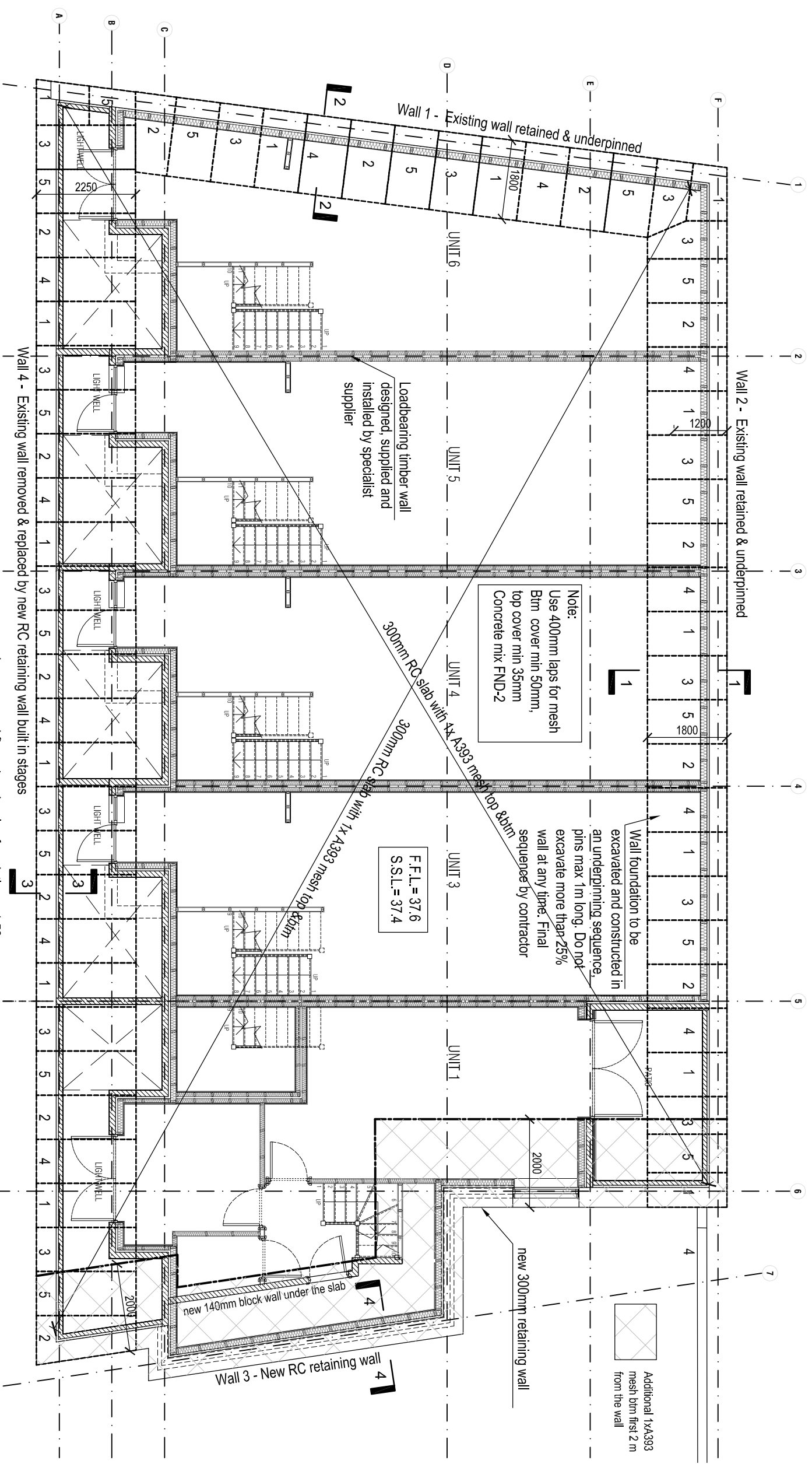# UNDERPINNING NOTE:

1. Do not scale - all dimensions are to be checked on site before any work commences. All dimensions are in mm unless otherwise noted.

2. Concrete mix: Strength to be 20N/mm at 28 days using 20mm max. aggregate and sulphate resisting cement. (min. 280 kg/m3 and water cement ratio: 0.55, for Class 2 sulphates).

3. No concrete is to be poured until excavation bottoms have been checked and approved by the Local Authority.

4. The underside of existing foundations are to be thoroughly cleaned and all loose particles removed to receive dry pack.

5. Mass conc. pins to be constructed in the order determined by contractor but agreed with the Engineer, before the commencement of work.

6. Not more than 25% of wall is to be opened up at any one time.

7. Dry Pack Mix: (1:3) Sulphate Resisting Cement; sharp sand to damp earth consistency to be thoroughly rammed into position.

8. Allow 48 hours for dry pack to mature before excavating adjoining areas.

9 Backfill of access holes to be 1:20 lean mix concrete to paved areas.

10. All soft material is to be removed to ensure a firm sound founding material - to be agreed on site, with Building Control.

11. Underpinning works to be inaccordance with B.S. 8004. If directed by Local Authority or Engineer concrete cubes to be taken in accordance with the current B.S. 1881: Part 108; B.S. 5328: Part 4, or as Part 108: B.S. 5328: Part 4, or as instructed by the Engineer; 3 No. in total 2 for 7 day test and 1 for 28 days and results forwarded to the Engineer

12. The Contractor is responsible for the stability of all excavations and the building during the course of the works and therefore shall have planking and strutting on site at all times to comply with current health and safety regulations.

Wall 1 - Existing wall retained & underpinned

Wall 2 - Existing wall retained & underpinned

Wall 3 - New RC retaining wall

Wall 4 - Existing wall removed & replaced by new RC retaining wall built in stages

UNIT 6
UNIT 5
UNIT 4
UNIT 3
UNIT 1

Loadbearing timber wall designed, supplied and installed by specialist supplier

Note:
Use 400mm laps for mesh
Btm cover min 50mm,
top cover min 35mm
Concrete mix FND-2

Wall foundation to be excavated and constructed in an underpinning sequence, excavate more than 25% wall at any time. Final sequence by contractor

pins max 1m long. Do not excavate more than 25% wall at any time. Final sequence by contractor

F.F.L= 37.6
S.S.L.= 37.4

300mm RC slab with 4x A393 mesh top &btm

300mm RC slab with 1x A393 mesh top &btm

new 140mm block wall under the slab

new 300mm retaining wall

Additional 1x A393 mesh btm first 2 m from the wall

LIGHT WELL

Lower ground floor plan showing foundations 1:50

2250
1800
1200
1800
2000
2000

Note: For section and details see dwg 1213/05 - 06

A   Section & notes added   9.9.15

DO NOT SCALE
All dimensions and levels must be checked on site and verified prior to construction

date: September 2015
drawn by: WS
cad dir:
file name:

NN
ENGINEERING
CONSULTANTS LTD
SUITE 3B
WENTA BUSINESS CENTRE
1 ELECTRIC AVENUE
INNOVA SCIENCE PARK
ENFIELD
EN37XU
TEL 07931 204177

1-8 College Yard
London NW5

Lower ground floor plan
showing foundations

scale: 1:100 @ A3

drawing no:
1213 / 01

revisions
A

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