



Appendix 2

Basement Excavation Temporary Propping.

**ALL TEMPORARY WORKS TO BE DESIGNED
AND INSTALLED BY SPECIALIST
TEMPORARY WORKS CONTRACTOR**

NEW CONTIGUOUS
PILED WALL TO
SPECIALIST DESIGN

REGENT'S CANAL

5x

PHASE 2

PHASE 2

PLOT C

PLOT A

PHASE 1

13.400 m

PHASE 2

NEW CONTIGUOUS PILED
WALL DESIGNED FOR BLOCK
B/C INTERFACE

**PHASE 1 CONSTRUCTION TO
FORM CENTRAL STIFF CORE /
BASEMENT STRUCTURE UP TO
GROUND FLOOR LEVEL**

(TO PROVIDE TEMPORARY LATERAL
SUPPORT FOR PERIMETER CONTIGUOUS
PILED WALL IN PHASE 2 CONSTRUCTION)

ST. PANCRAS WAY

5x

PHASE 1 - CONSTRUCTION OF INTERNAL STIFF CORE / BASEMENT STRUCTURE:

1. Install new contiguous piled wall around the perimeter of the building.
2. Install main foundation piles over the Phase 2 construction area.
3. Provide temporary diagonal propping between (i) Plot A/B interface contiguous pile wall and Canal side perimeter wall and (ii) Plot A/B interface contiguous pile wall and St. Pancras Way perimeter wall.
4. Tie new Plot B contiguous pile walls / capping beams to already constructed interface wall between Plot A/B.
5. Determine the area for internal excavation for Phase 1 construction maintaining temporary berm around the perimeter of Plot B except Plot A/B interface.
Plot A/B interface contiguous pile wall has already been designed and constructed to allow for Plot B basement.
6. Install basement foundation piles to internal basement structure.
7. Construct foundation pile caps, RC walls / columns, basement and ground floor slabs to complete the stiff core basement structure up to ground floor level.

**PHASE 2 - CONSTRUCTION OF BASEMENT SURROUNDING THE
INTERNAL STIFF CORE:**

8. Install temporary steel tube propping between internal stiff core and perimeter contiguous piled wall at regular centres.
9. Excavate gradually to upper basement slab level approximately and install another set of temporary steel tube props at intermediate level.
10. Excavate gradually to a level just below lower basement level.
11. Construct foundation pile caps, basement slab tied to contiguous perimeter walls and columns up to upper basement level.
12. Construct upper basement slab tied to perimeter contiguous piled wall and raise the walls and columns to ground floor slab.
13. Cast ground floor slab tied to contiguous perimeter walls.

ALTERNATIVELY - MAIN CONTRACTOR MAY ADOPT TOP DOWN CONSTRUCTION.

Client:
REEF ESTATES

Job No:
16-017

Project:
The Ugly Brown Building

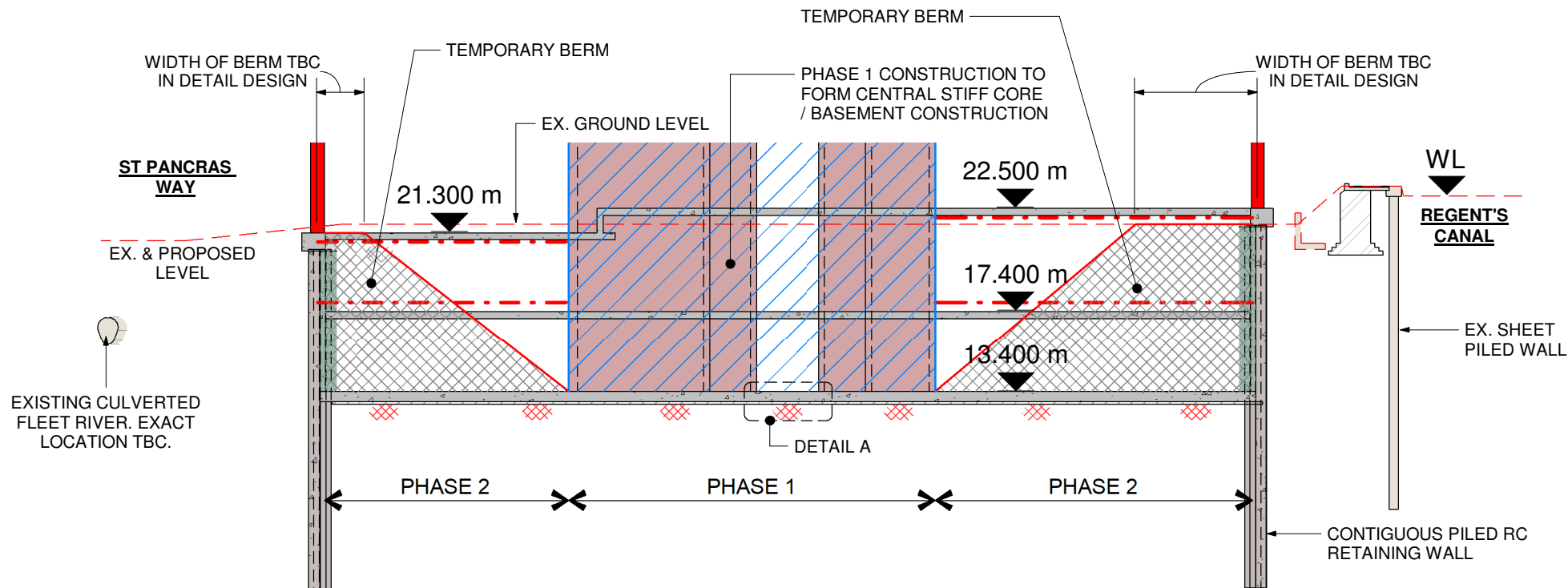
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Date: SEP. 2017

Drawing No:
S(SK) TW-60 B

Drawing:
PLOT B - BASEMENT EXCAVATION TEMPORARY PROPPING

GD Partnership Ltd.
Consulting Engineers

The Cart Lodge, Lullingsstone Lane, Eynsford, Kent, DA4 0HZ
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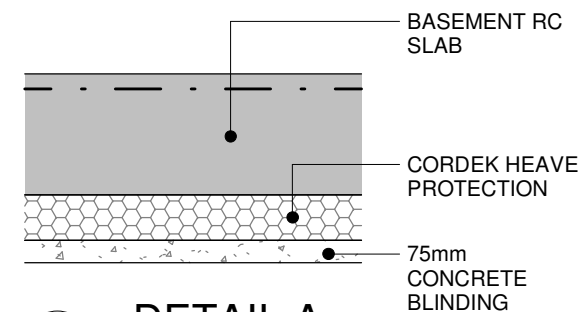


1. CONSTRUCTION OF NEW BASEMENTS TO BE IN PHASES.
2. INTERNAL EXCAVATIONS TO FORM CENTRAL STIFF CORES / BASEMENT STRUCTURES TO GROUND FLOOR LEVEL.
3. TEMPORARY WORKS TO BE PROVIDED TO BE FIXED TO THE CENTRAL STIFF CORES / INTERNAL BASEMENT STRUCTURES.

ALTERNATIVELY - MAIN CONTRACTOR MAY ADOPT TOP DOWN CONSTRUCTION.

SECTION 5x-5x

(SCALE 1:300)



A **DETAIL A**
1 : 25

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Job No:
16-017

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The Ugly Brown Building

Scale: As indicated
Drawn: MM **Checked:** YG
Date: SEP. 2017

Drawing No:
S(SK) TW-61 B

Drawing:
PLOT B - SECTION 5x-5x - BASEMENT EXCAVATION TEMPORARY PROPPING

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Consulting Engineers

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Email: contact@gdteam.co.uk

**ALL TEMPORARY WORKS TO BE DESIGNED
AND INSTALLED BY SPECIALIST
TEMPORARY WORKS CONTRACTOR**

REGENT'S CANAL

10x

PHASE 2

**PHASE 1 CONSTRUCTION TO
FORM CENTRAL STIFF CORE /
BASEMENT STRUCTURE UP TO
GROUND FLOOR LEVEL**

(TO PROVIDE TEMPORARY LATERAL
SUPPORT FOR PERIMETER CONTIGUOUS
PILED WALL IN PHASE 2 CONSTRUCTION)

PHASE 2

NEW CONTIGUOUS PILED
WALL DESIGNED FOR
BLOCK B/C INTERFACE

**ST. PANCRAS
WAY**

NEW CONTIGUOUS PILES
TO SPECIALIST DESIGN

10x

13.400 m

**PHASE 1 - CONSTRUCTION OF INTERNAL STIFF CORE / BASEMENT
STRUCTURE:**

1. Install new contiguous piled wall around the perimeter of the building.
2. Install main foundation piles over the Phase 2 construction area.
3. Provide temporary diagonal propping between (i) Plot B contiguous piled wall and Canal side perimeter wall and (ii) Plot B contiguous wall and St. Pancras Way perimeter wall.
4. Tie new contiguous piled wall / capping beams to new Plot B interface contiguous piled wall / capping beam already constructed.
5. Determine the area for internal excavation for Phase 1 construction maintaining a temporary berm around the perimeter except Plot B/C interface. Plot B/C interface contiguous piled wall has already been designed and constructed to allow for Plot C basement.
6. Install basement foundation piles to internal basement structure.
7. Construct foundation pile caps, basement slabs and ground floor slab to complete the stiff core basement structure up to ground floor level.

**PHASE 2 - CONSTRUCTION OF BASEMENT SURROUNDING THE INTERNAL
STIFF CORE:**

8. Install temporary steel tube propping between internal stiff core and perimeter contiguous piled wall at regular centres.
9. Excavate gradually to upper basement slab level approximately and install another set of temporary steel tube props at intermediate level.
10. Excavate gradually to a level just below lower basement level.
11. Construct foundation pile caps, basement slab tied to contiguous perimeter walls and columns up to upper basement level.
12. Construct upper basement slab tied to perimeter contiguous piled wall and raise the walls and columns to ground floor slab.
13. Cast ground floor slab tied to contiguous perimeter walls.

**GRANARY
STREET**

NEW CONTIGUOUS PILES
TO SPECIALIST DESIGN

Client:

REEF ESTATES

Scale: 1 : 600

Drawn: MM **Checked:** YG

Date: SEP. 2017

Job No:

16-017

Drawing No:

S(SK) TW-110 A

Project:

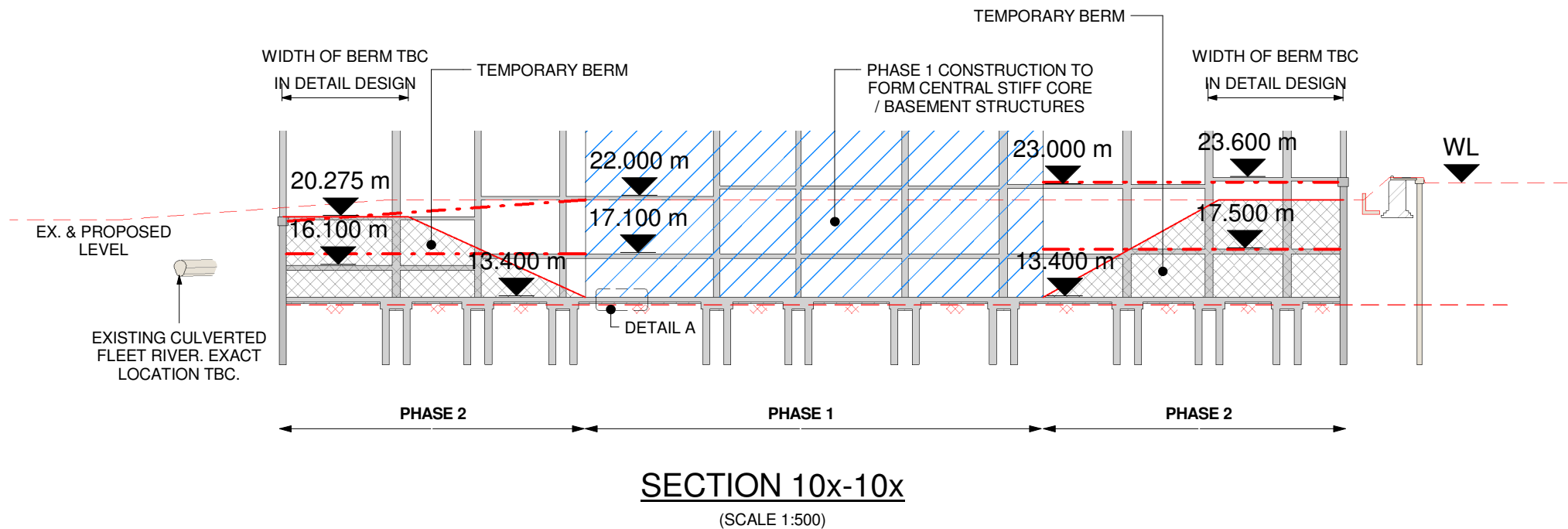
The Ugly Brown Building

Drawing:

**PLOT C - BASEMENT EXCAVATION
TEMPORARY PROPPING**

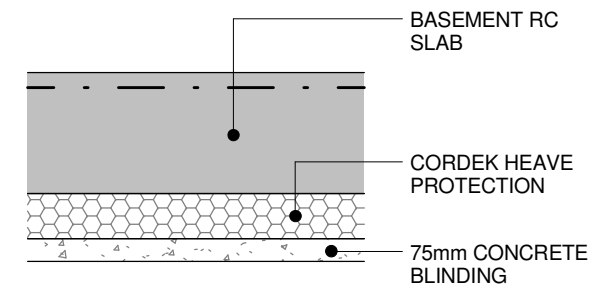
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3. TEMPORARY WORKS TO BE PROVIDED TO BE FIXED TO THE CENTRAL STIFF CORES / INTERNAL BASEMENT STRUCTURES.

ALTERNATIVELY - MAIN CONTRACTOR MAY ADOPT TOP DOWN CONSTRUCTION.



A **DETAIL A**
1 : 25

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AND INSTALLED BY SPECIALIST
TEMPORARY WORKS CONTRACTOR**

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Scale: As indicated
Drawn: MM **Checked:** YG
Date: SEP. 2017

Drawing No:
S(SK) TW-111 A

Drawing:
PLOT C - SECTION 10x-10x - BASEMENT EXCAVATION TEMPORARY PROPPING

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