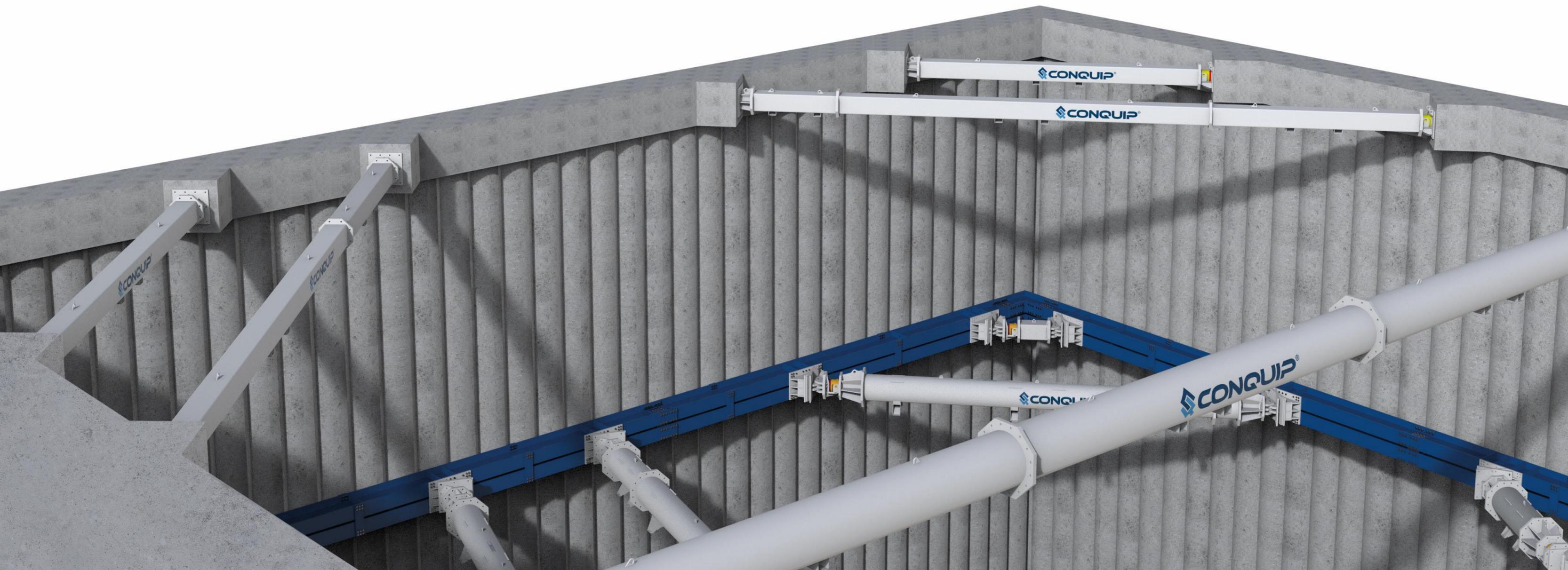


Working in partnership with
deconstructuk.com



Project N°: ZP21-0103
Status: Tender Estimate
Revision N°: 01
Issued: 25th November 2021

Fitzrovia 247 Tottenham Court Rd



Project Information

- Client Brief
- Project Drawings/Reports
- Design Information

Client Brief

Deconstruct UK have invited Conquip Engineering Group to submit an estimate for the supply of the Temporary Propping scheme to provide support in the temporary condition for the Fitzrovia, 247 Tottenham Court Rd project.

Proposal to be based on:

- Client's previous indicative design
- 4190-S-HSK-039_Construction Sequence_P3 by ATK2
- Top level of props to be mounted on RC corbels above the capping beam
- No loading information or piled wall design is available for use in this proposed scheme

Project Drawings/Report

This propping scheme has been produced based on the following documentation / information provided:

- 4190-S-HSK-039_Construction Sequence_P3
- Indicative sketches

Design Information

This proposal is based on the information supplied by Deconstruct UK, and assumptions made by Conquip Engineering Group. This is an initial proposal which will be developed in conjunction with the clients/site design teams. This proposal will be reviewed once further information has been made available and our design has been finalised and approved by Deconstruct UK.

Propping Proposal Assumptions

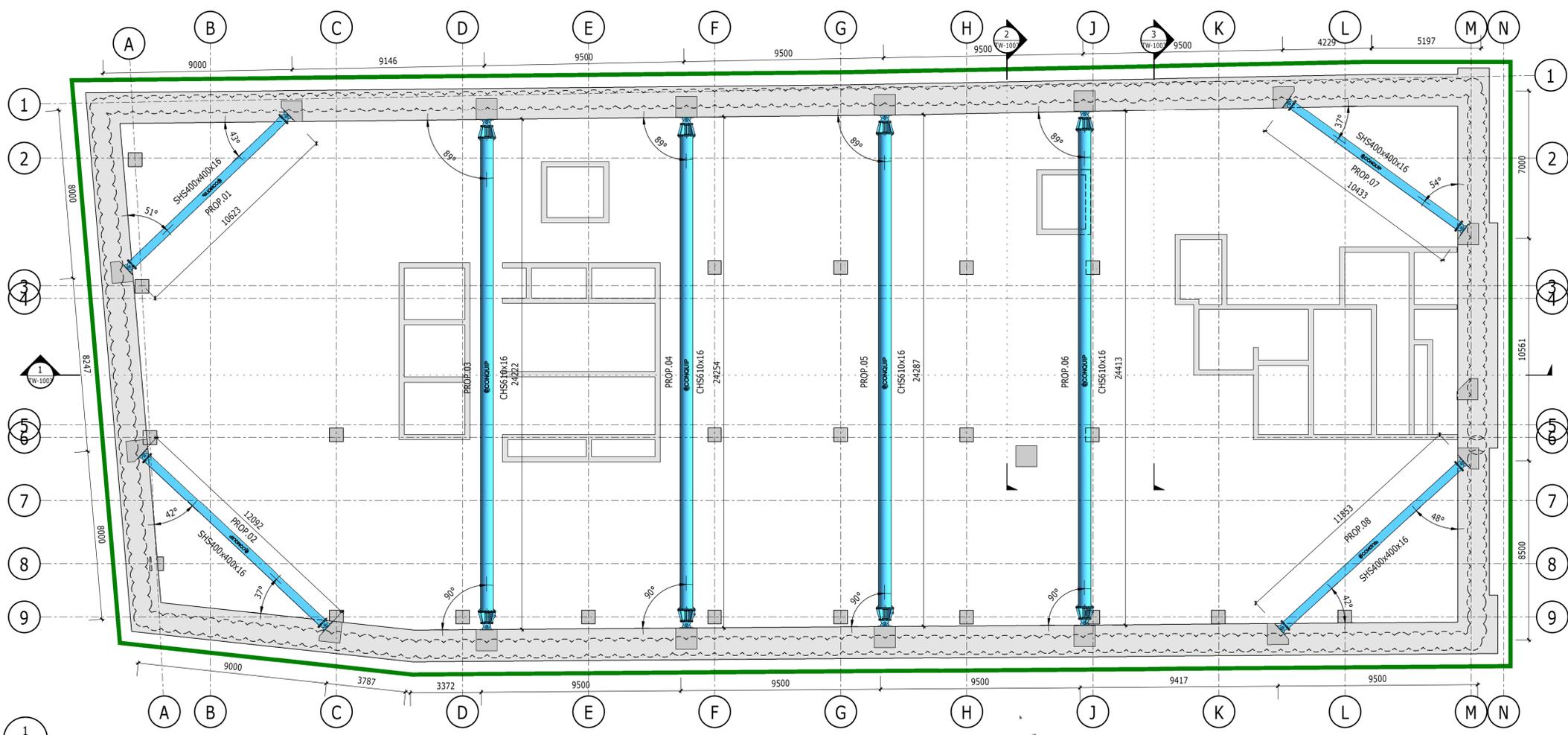
- Double level of propping.
- 1st Level of propping installed above the Ground floor on RC corbels to allow construction of the ground floor prior to prop removal
- Connection to RC Corbels uses standard cast in connection detail
- 2nd Level propping installed on to waling beam installed at ~+22.710m
- Waling beam installed on to gallows brackets post fixed to the piled wall
- See drawings on following pages for the assumed line loads considered.
- It has been assumed load and structural forces can be accommodated using our standard proprietary equipment, no bespoke elements have been allowed for

Assumed Construction Sequence

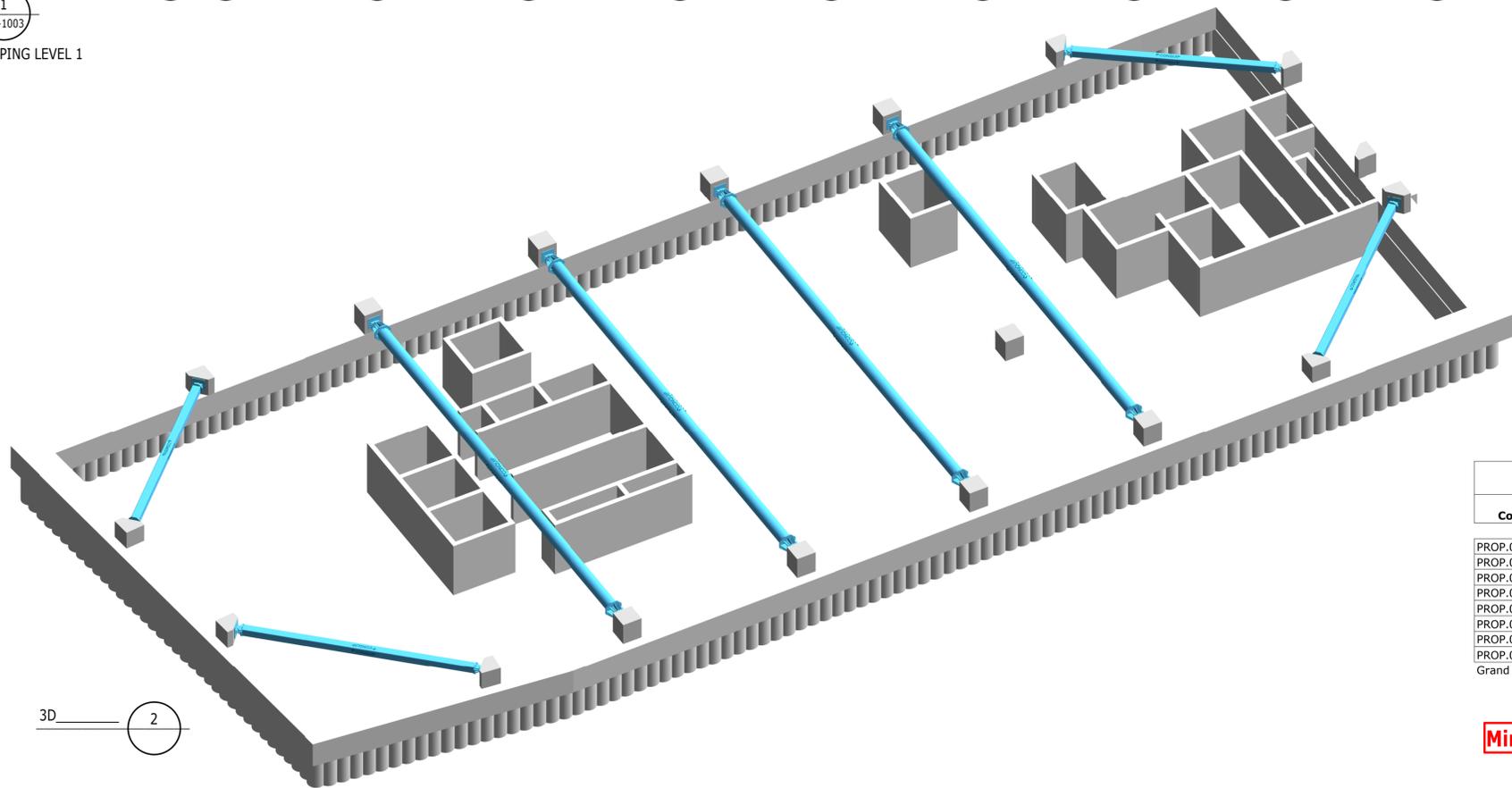
1. To Be Advised

LOAD TABLE LEVEL 1	
Colour	LOADS(SLS)
	130 kN/m

- Notes
- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS ARE MILLIMETRES U.N.O.
 - ALL LEVELS ARE IN METRES ABOVE ORDANCE DATUM U.N.O.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.



PLAN
1 : 125
1 TW-1003
TEMPORARY PROPPING LEVEL 1



CONSTRUCTION SEQUENCE

1. Install secant piles from a platform
2. Construct Capping beam and corbel
3. Install temporary props level 1 at Corbel level
4. Excavate to formal level B1
5. Install secant piles and Construct Capping beam and corbel
6. Install temporary props level 2 at Corbel level and waling beam
7. Excavate to formal level B2
8. Cast basement slab B2
9. Cast liner wall and permanent structure from basement B2
10. Cast basement slab B1
11. Remove temporary props level 2
12. Cast liner wall and permanent structure from basement B1
13. Cast ground floor
14. Remove temporary props level 1

PROPPING LEVEL 1				
Comments	MEMBER SIZE	NO. OFF	LENGTH(mm)	WEIGHT (T)
PROP.01	SHS400x400x16	1	11466	1.904
PROP.02	SHS400x400x16	1	13156	2.185
PROP.03	CHS610x16	1	25875	5.265
PROP.04	CHS610x16	1	25898	5.270
PROP.05	CHS610x16	1	25938	5.278
PROP.06	CHS610x16	1	26082	5.307
PROP.07	SHS400x400x16	1	11247	1.868
PROP.08	SHS400x400x16	1	12880	2.139
Grand total: 8		8		29.216

Minimum stiffness = 50000 kN/m/m

P01	FIRST ISSUED	13-11-2021	ATH	SDU
Rev	Description	Date	By	App

CLIENT LOGO
deconstructuk.com

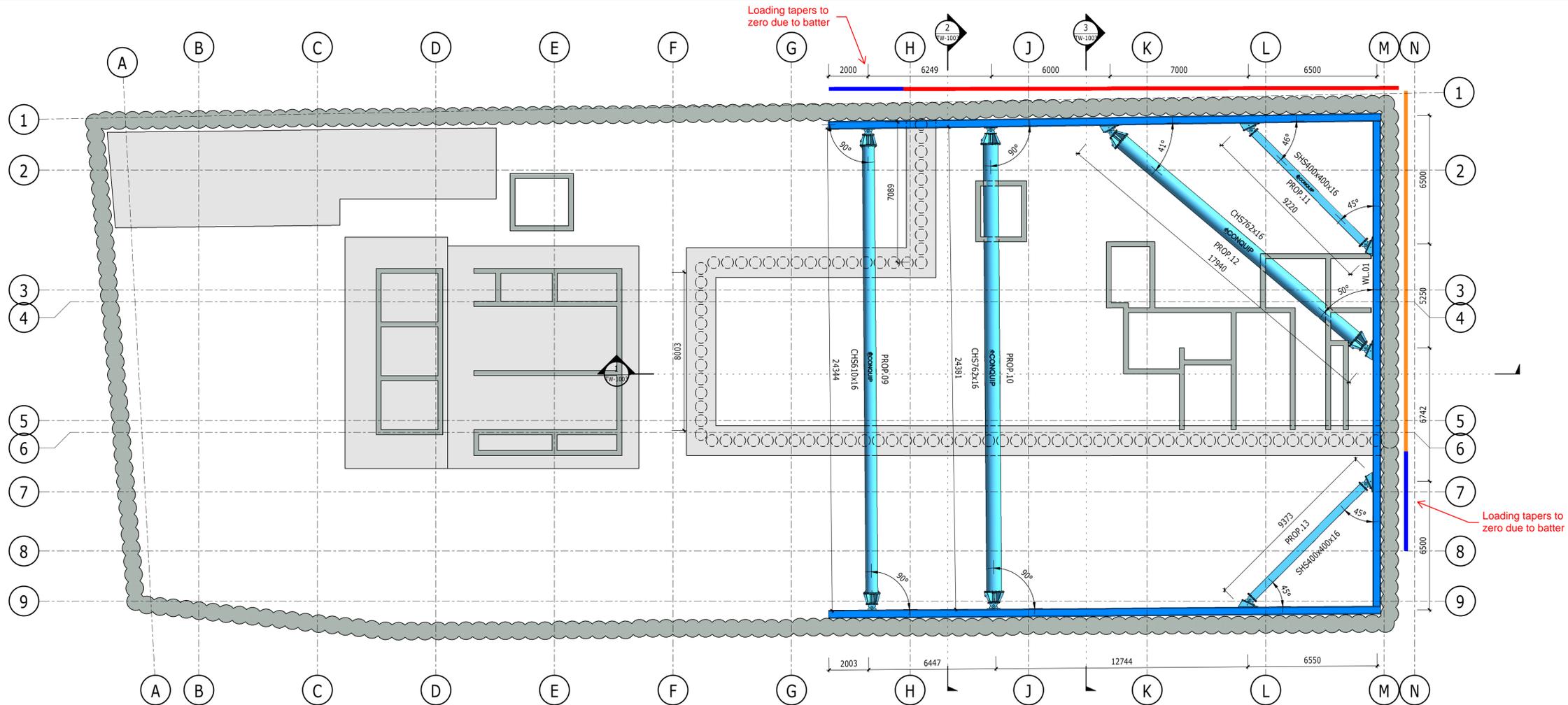
PROPOSED STATUS FOR INFORMATION

PROJECT
247 TOTTENHAM COURT

ORIGINATOR
CONQUIP
ENGINEERING GROUP

DRAWING TITLE
TEMPORARY PROPPING LAYOUT LEVEL 1

Scale:	Date:	Drawn:	Checked:
As indicated	13/11/2021	ATH	SDU
Drawing No.:	TOT-STT-ZZ-ZZ-DR-TW-1001		Rev:
			P01



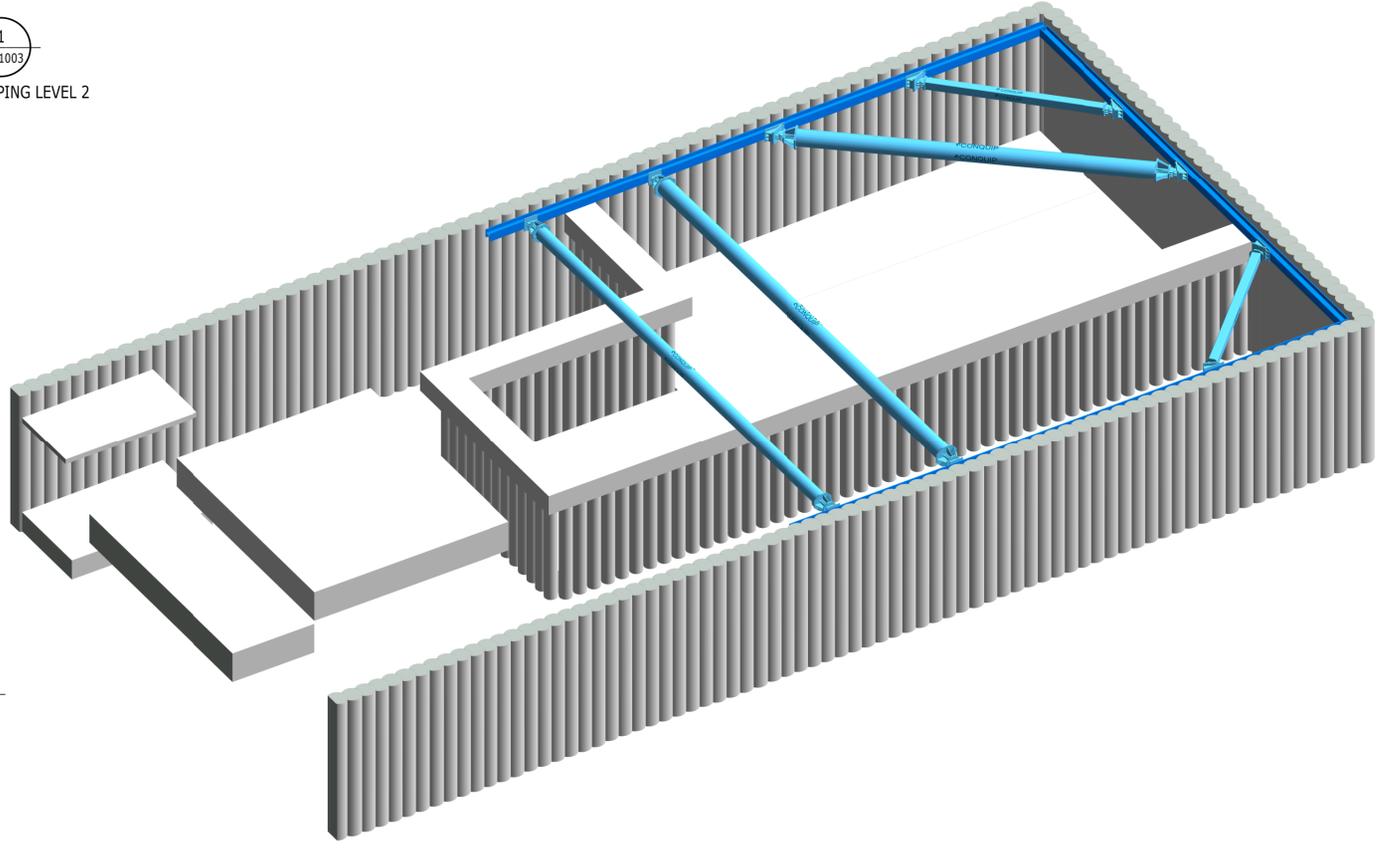
- Notes
- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS ARE MILLIMETRES U.N.O.
 - ALL LEVELS ARE IN METRES ABOVE ORDANCE DATUM U.N.O.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

LOAD TABLE PROP LEVEL 2	
Colour	SLS Level 2 load (kN/m)
	300 kN/m
	325 kN/m

PLAN
1 : 125
TEMPORARY PROPPING LEVEL 2

CONSTRUCTION SEQUENCE

- Install secant piles from a platform
- Construct Capping beam and corbel
- Install temporary props level 1 at Corbel level
- Excavate to formal level B1
- Install secant piles and Construct Capping beam and corbel
- Install temporary props level 2 at Corbel level and waling beam
- Excavate to formal level B2
- Cast basement slab B2
- Cast liner wall and permanent structure from basement B2
- Cast basement slab B1
- Remove temporary props level 2
- Cast liner wall and permanent structure from basement B1
- Cast ground floor
- Remove temporary props level 1



PROPPING LEVEL 2				
Comments	MEMBER SIZE	NO. OFF	LENGTH(mm)	WEIGHT (T)
PROP.09	CHS610x16	1	26036	5.298
PROP.10	CHS762x16	1	26036	6.656
PROP.11	SHS400x400x16	1	9039	1.501
PROP.12	CHS762x16	1	17825	4.557
PROP.13	SHS400x400x16	1	9154	1.520
Grand total: 5		5		19.533

WALLING BEAM LEVEL 2				
MEM REF	MEMBER SIZE	NO. OFF	LENGTH (mm)	WEIGHT (T)
WL.01	UC356x406x340	3	92538	31.463
Grand total: 3		3	92538	31.463

PO2	UPDATED	14-11-2021	ATH	SDU
PO1	FIRST ISSUED	13-11-2021	ATH	SDU
Rev	Description	Date	By	App

CLIENT LOGO
deconstructuk.com

PROPOSED STATUS FOR INFORMATION

PROJECT
247 TOTTENHAM COURT

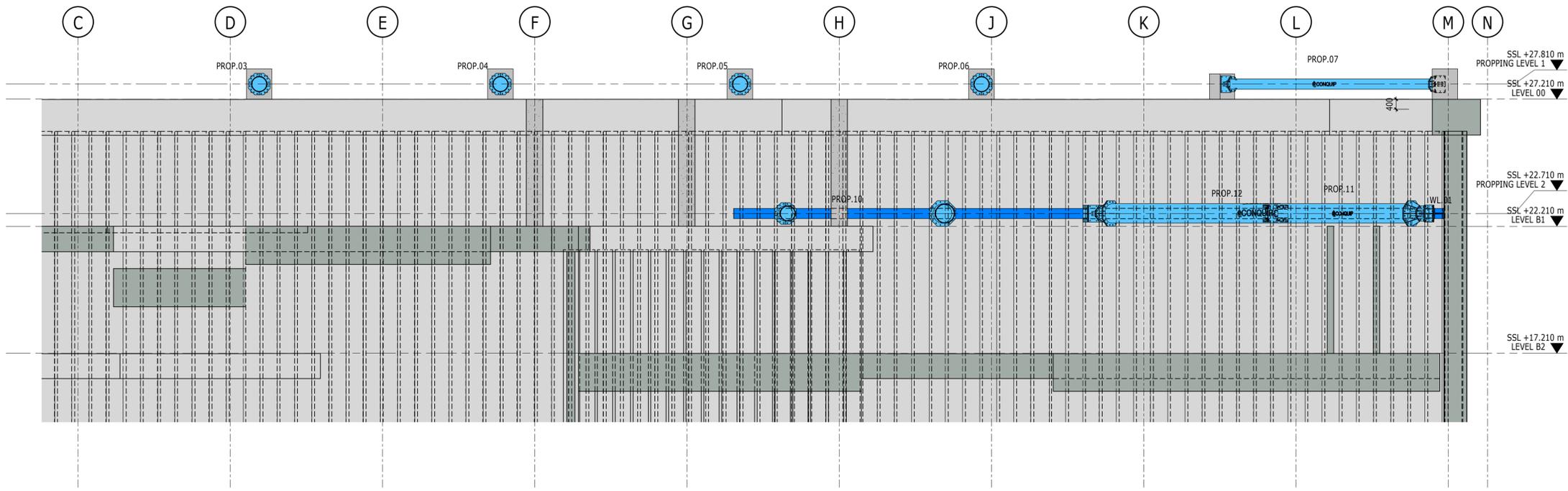
ORIGINATOR
CONQUIP
ENGINEERING GROUP

DRAWING TITLE
TEMPORARY PROPPING LAYOUT
LEVEL 2

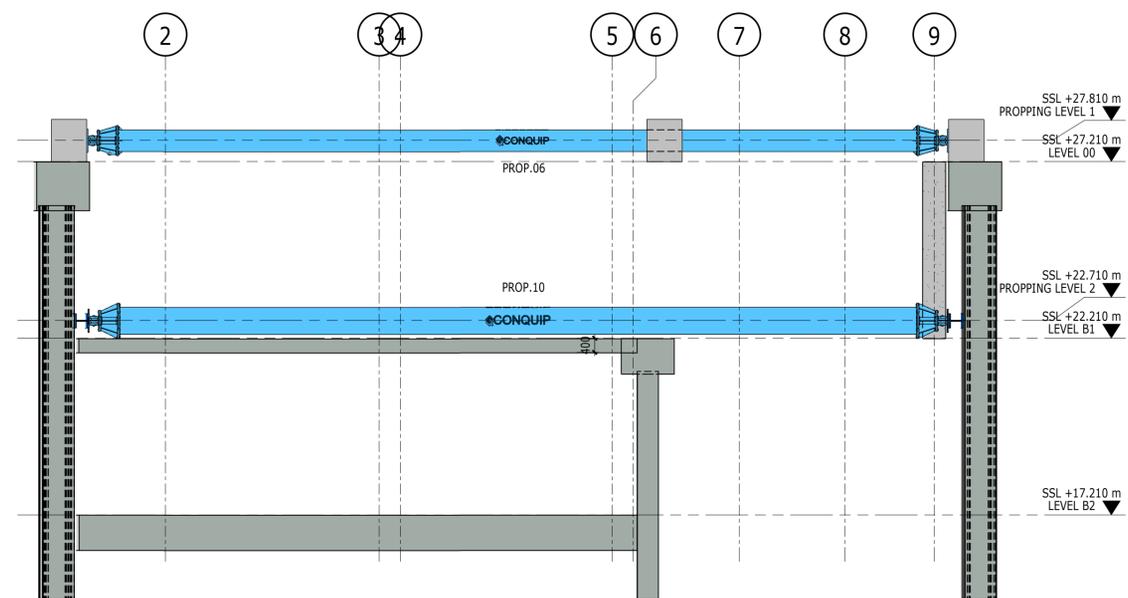
Scale:	Date:	Drawn:	Checked:
As indicated	14/11/2021	ATH	SDU
Drawing No.:	TOT-STT-ZZ-ZZ-DR-TW-1002		Rev:
			P02

3D
2

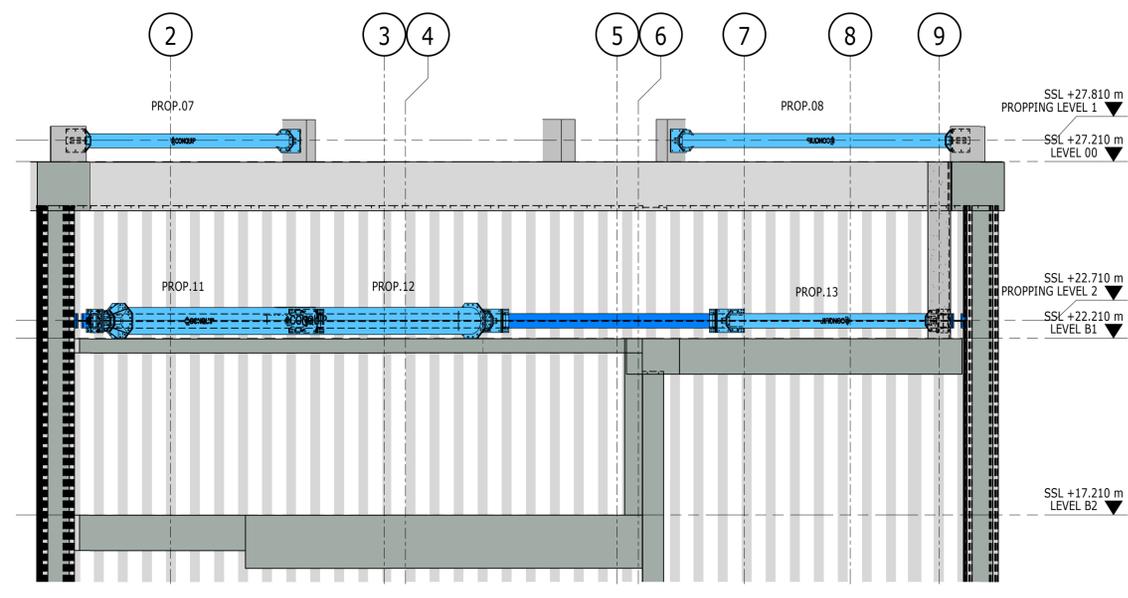
- Notes
- DO NOT SCALE FROM THIS DRAWING
 - ALL DIMENSIONS ARE MILLIMETRES U.N.O.
 - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.



SECTION 1
1 : 100
TW-1001



SECTION 2
1 : 100
TW-1001



SECTION 3
1 : 100
TW-1001

Rev	Description	Date	By	App
P02	UPDATED	14-11-2021	ATH	SDU
P01	FIRST ISSUED	13-11-2021	ATH	SDU

CLIENT LOGO
deconstructuk.com

PROPOSED STATUS FOR INFORMATION

PROJECT
247 TOTTENHAM COURT

ORIGINATOR
CONQUIP
ENGINEERING GROUP

DRAWING TITLE
TEMPORARY PROPPING SECTIONS

Scale:	Date:	Drawn:	Checked:
1 : 100	14/11/2021	ATH	SDU
Drawing No.:	Rev:		
TOT-STT-ZZ-ZZ-DR-TW-1003	P02		