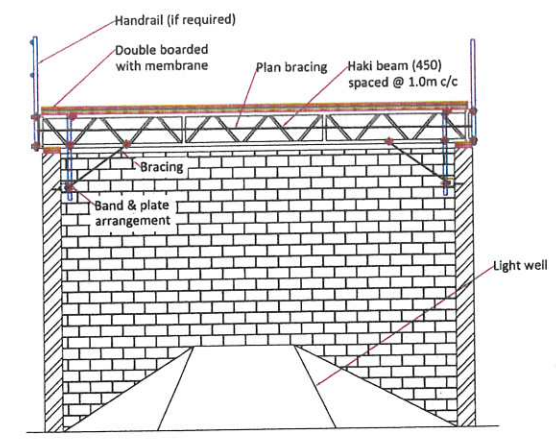
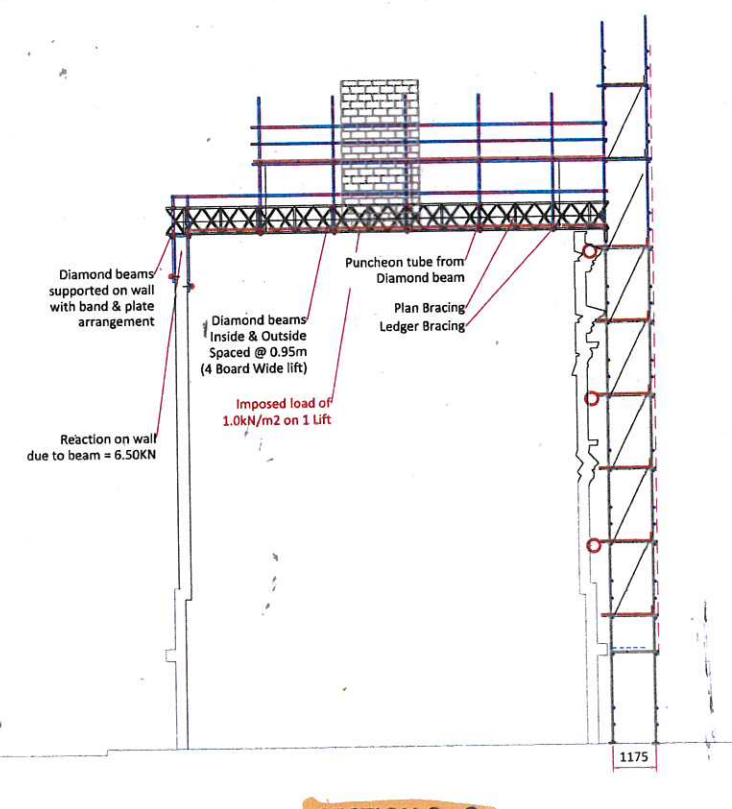
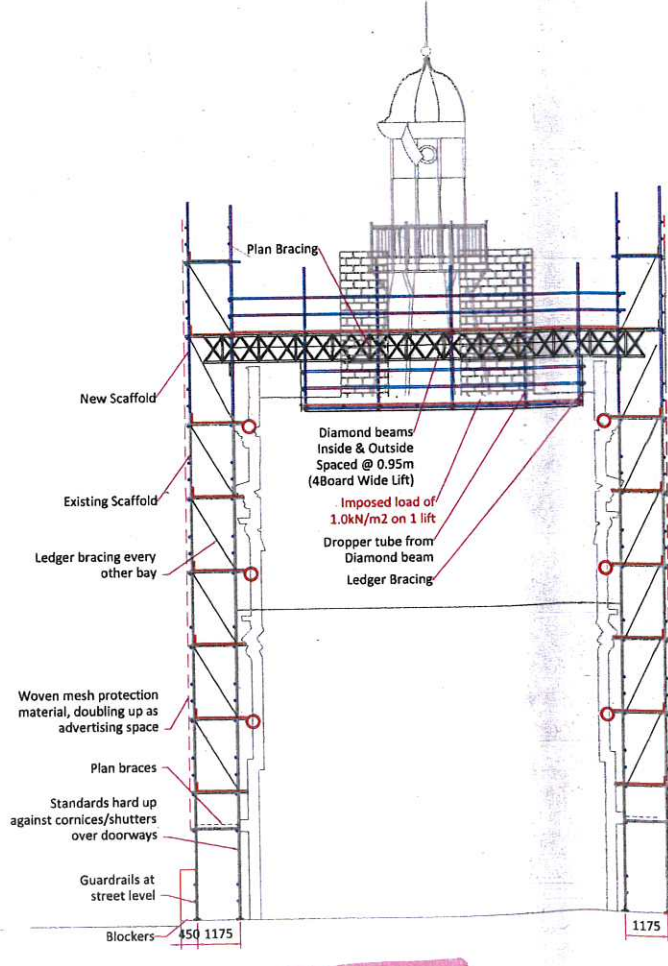
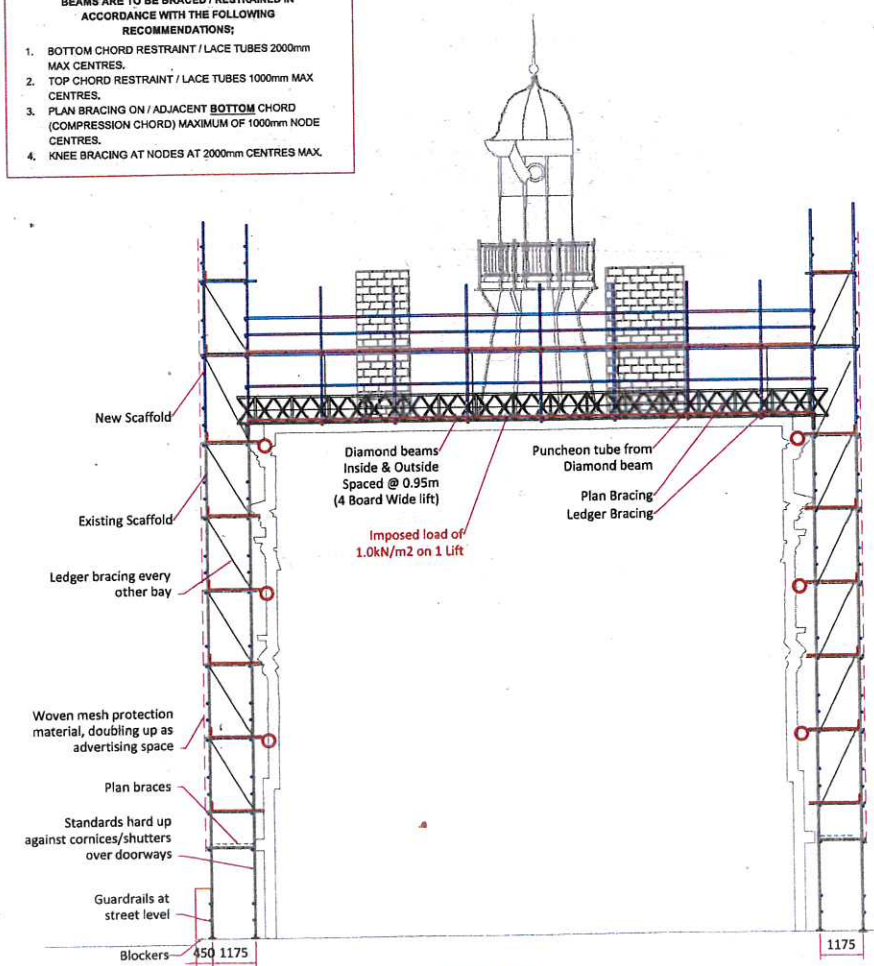


BEAM BRACING

BEAMS ARE TO BE BRACED / RESTRAINED IN ACCORDANCE WITH THE FOLLOWING RECOMMENDATIONS:

1. BOTTOM CHORD RESTRAINT / LACE TUBES 2000mm MAX CENTRES.
2. TOP CHORD RESTRAINT / LACE TUBES 1000mm MAX CENTRES.
3. PLAN BRACING ON / ADJACENT BOTTOM CHORD (COMPRESSION CHORD) MAXIMUM OF 1000mm NODE CENTRES.
4. KNEE BRACING AT NODES AT 2000mm CENTRES MAX.



LOADING

INDEPENDENT SCAFFOLD:

MAIN WORKING LIFTS	1 No. AT	1.50 kN/m ²
	1 No. AT	0.75 kN/m ²
INSIDE BOARDS	2 No. AT	0.75 kN/m ²

CHIMNEY BREAST LEVEL:

MAIN WORKING LIFTS	1 No. AT	1.0 kN/m ²
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CRASH DECK DESIGNED FOR 2.0 kN/m²

LEG LOADS

INDEPENDENT SCAFFOLD WITH ADDITIONAL LIFT = 10.50KN (TYPICAL ON GREYS INN & PENTONVILLE ROAD)

INDEPENDENT SCAFFOLD WITH ADDITIONAL LIFT AND ROOF BEAM SUPPORT = 29.50KN (INSIDE LEG LOAD SUPPORTING THE ROOF BEAM ON GREYS INN & PENTONVILLE ROAD)

INDEPENDENT SCAFFOLD ON EAST ELE. = 7.5KN (BACK PROPPED TO GROUND @ EVERY LEVEL)

BEAMING ON EAST ELE. = 15.70KN (BACK PROPPED TO GROUND @ EVERY LEVEL)

- NOTES**
1. THE DRAWING IS CONFIDENTIAL AND IS EXCLUSIVE PROPERTY OF RDG ENGINEERING LTD. NO UNAUTHORIZED USE, COPY OR DISCLOSURE IS TO BE MADE AND IS TO BE RETURNED UPON REQUEST.
 2. ALL DIMENSIONS ARE IN MILLIMETRES AND CENTRE TO CENTRE UNLESS OTHERWISE STATED. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 3. ALL PLANT SUPPLIED ON THE BASIS IS SUBJECT TO OUR CONDITIONS OF HIRE OR SALE AS APPLICABLE.
 4. THE DRAWING HAS BEEN PREPARED FROM THE DETAILS SUPPLIED TO US BY THE CUSTOMER, WHO SHOULD CHECK THAT THE ENGINEER HAS CURRENTLY INTERPRETED HIS FUNCTIONAL REQUIREMENTS WITH REGARD TO APPLIED LOADINGS AND OVERALL DIMENSIONS.
 5. ALL DESIGN AND ERECTION OF SCAFFOLDS AND COMPONENTS TO CONFORM WITH THE FOLLOWING BRITISH STANDARDS AND CODES OF PRACTICES.
 - BS 1139 METAL SCAFFOLDING.
 - BS EN 39:2001 LOOSE STEEL TUBES FOR COUPLER SCAFFOLDS. TECHNICAL LIBRARY. TYPE 4 TUBE (TABLE A.1)
 - TG 20:08 GUIDE TO GOOD PRACTICE FOR SCAFFOLDING WITH TUBES AND FITTINGS.
 - BS 2482:2009 SPECIFICATION FOR TIMBER SCAFFOLD BOARDS.
 - BS EN 12811 TEMPORARY WORKS EQUIPMENT.
 5. LOAD BEARING COUPLERS TO BE USED ON ALL NON BOARDED PLATFORMS.
 6. LOAD BEARING COUPLERS TO BE USED ON ALL TIES.
 7. THE CUSTOMER IS TO ENSURE THAT THE STRUCTURE, GROUND AND / OR BASE PROVIDED FOR OUR SCAFFOLD IS ADEQUATE TO SUPPORT THE LOADS APPLIED WITHOUT SETTLEMENT, INCLUDING THE PROVISION FOR ANY NECESSARY SPREADERS.
 8. NO ALTERATION IN OR WHICH MAY AFFECT THE LOADING IS TO BE MADE WITHOUT REFERENCE TO THE RDG ENGINEERING LTD DESIGN OFFICE.

IMPOSED LOADS

THE STRUCTURE DETAILED ON THIS DRAWING HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS.

INDEPENDENT SCAFFOLD:

MAIN WORKING LIFTS	1 No. AT	1.50 kN/m ²
	1 No. AT	0.75 kN/m ²
INSIDE BOARDS	2 No. AT	0.75 kN/m ²

CHIMNEY BREAST LEVEL:

MAIN WORKING LIFTS	1 No. AT	1.0 kN/m ²
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CRASH DECK DESIGNED FOR 2.0 kN/m²

(ALL LOADS ASSUMED UNIFORMLY DISTRIBUTED)

FOR APPROVAL

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REV	DATE	DESCRIPTION OF ISSUE	DEN	SL	ENG	RDG
				CHECKED	APPROVED	CLIENT

rdg engineering
consulting engineers

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e-mail: info@rdgengineering.co.uk

PROJECT
The Lighthouse Block,
King's Cross

DRAWING TITLE
Flank scaffolds and bridged lighthouse scaffold Option 1

SCALE	RDG ENGINEERING DNG NO.	REV
AS SHOWN	5007-19-02-003	A

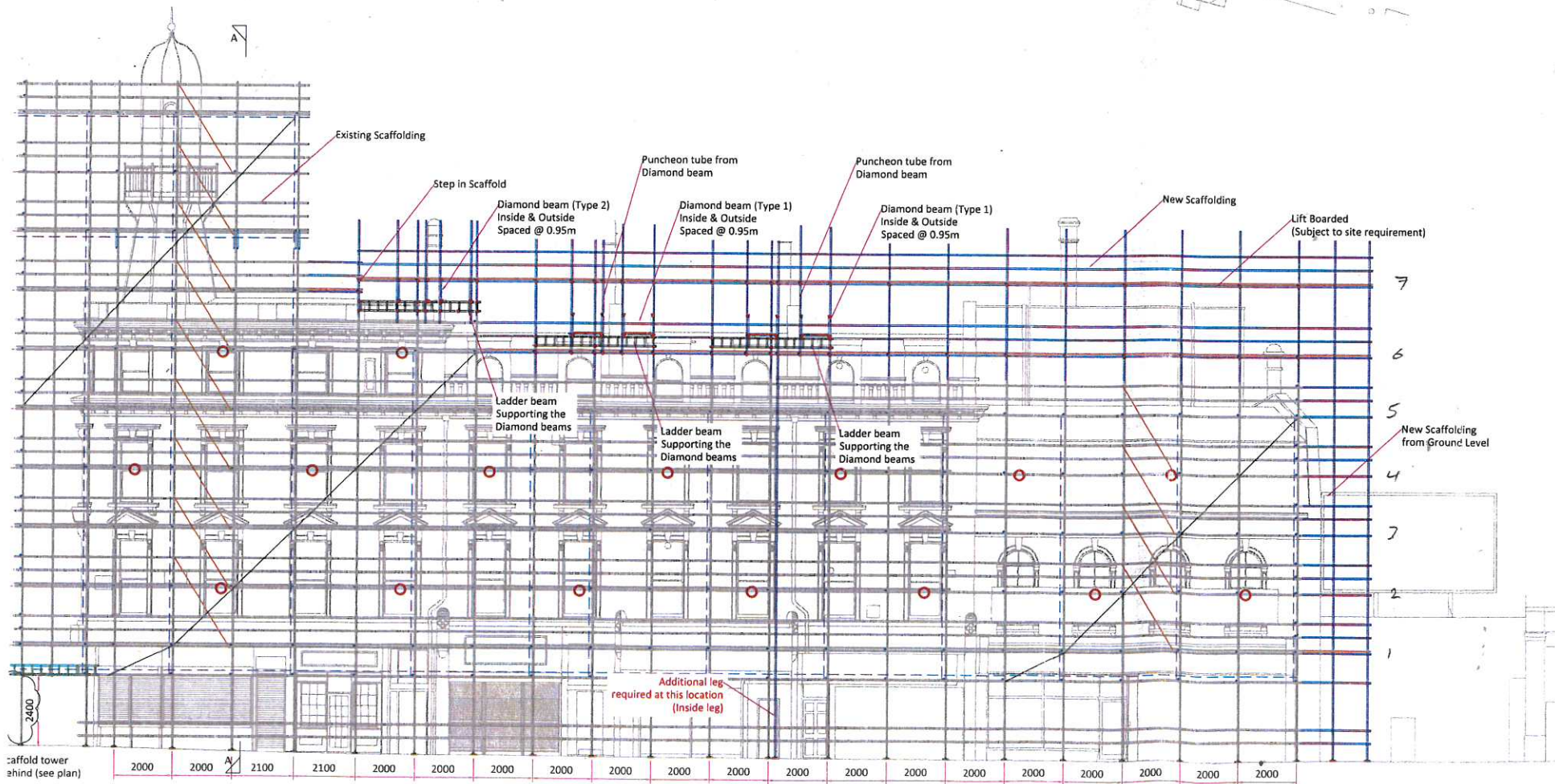
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▲ LIFT @ CHIMNEY LEVEL ▲

NOTE:
- DEAD WEIGHT OF CHIMNEY SHOULD NOT BE STACKED ON THE LIFT AND MOVED TO THE INDEPENDENT SCAFFOLD EITHER ON GRAYS INN OR PENTONVILLE ROAD

Beam No.	Beam Type	Beam Support	
		Grays Inn Road	Pentonville Road
C1	Diamond beam	Ladder beam on new scaffold	Ladder beam on new scaffold
C2	Diamond beam	Ladder beam on new scaffold	Ladder beam on new scaffold
C3	Diamond beam	Ladder beam on new scaffold	Ladder beam on new scaffold
C4	Diamond beam	Supported on Wall	Ladder beam on new scaffold
C5	Diamond beam	Supported on Wall	Ladder beam on new scaffold
C6	Diamond beam	Supported on Wall	Ladder beam on new scaffold
C7	HAKI beam (450)	Supported on 2nd level	
C8	HAKI beam (450)	Supported on Wall	Supported on Wall

GROUND / ROOF PLAN
Scale 1:200



GREYS INN ROAD ELEVATION
Scale 1:100

▲ KEY AREAS ▲

ADDITIONAL SCAFFOLDING
EXISTING SCAFFOLDING

▲ LOADING ▲

INDEPENDENT SCAFFOLD:
MAIN WORKING LIFTS 1 No. AT 1.50 kN/m²
1 No. AT 0.75 kN/m²
INSIDE BOARDS 2 No. AT 0.75 kN/m²
CHIMNEY BREAST LEVEL:
MAIN WORKING LIFTS 1 No. AT 1.0 kN/m²
CRASH DECK DESIGNED FOR 2.0 kN/m²

▲ LEG LOADS ▲

INDEPENDENT SCAFFOLD WITH ADDITIONAL LIFT = 10.50KN
(TYPICAL ON GREYS INN & PENTONVILLE ROAD)
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(INSIDE LEG LOAD SUPPORTING THE ROOF BEAM ON GREYS INN & PENTONVILLE ROAD)
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(BACK PROPPED TO GROUND @ EVERY LEVEL)
BEAMING ON EAST ELE. = 15.70KN
(BACK PROPPED TO GROUND @ EVERY LEVEL)

▲ NOTES ▲

- ALL LOADS PROVIDED ARE UN-FACTORED
- THE DIMENSIONS AND EXISTING FACADE DRAWINGS ARE FROM A BRIEF SURVEY AND PROVIDED PDF'S - THEREFORE, THERE IS ANTICIPATED TO BE A BIT OF INACCURACY - THIS SHOULD BE CONSIDERED WHEN SETTING OUT THE SCAFFOLD

▲ LEDGER BRACING ▲

LEDGER BRACING @ EVERY SECOND BAY

▲ BEAM BRACING ▲

- BEAMS ARE TO BE BRACED / RESTRAINED IN ACCORDANCE WITH THE FOLLOWING RECOMMENDATIONS:
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 - TOP CHORD RESTRAINT / LACE TUBES 1000mm MAX CENTRES.
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 - KNEE BRACING AT NODES AT 2000mm CENTRES MAX.

▲ TIE LOAD ▲

PHYSICAL TIES THROUGH WINDOWS - MAXIMUM FORCE 7.0KN PER TUBE (2no. Tube In Total per Physical tie)

NOTES

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IMPOSED LOADS

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INDEPENDENT SCAFFOLD:

MAIN WORKING LIFTS 1 No. AT 1.50 kN/m²
1 No. AT 0.75 kN/m²
INSIDE BOARDS 2 No. AT 0.75 kN/m²

CHIMNEY BREAST LEVEL:

MAIN WORKING LIFTS 1 No. AT 1.0 kN/m²

CRASH DECK DESIGNED FOR 2.0 kN/m²

(ALL LOADS ASSUMED UNIFORMLY DISTRIBUTED)



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				CHECKED		APPROVED

CLIENT

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consulting engineers

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e-mail: info@rdgengineering.co.uk

PROJECT
The Lighthouse Block,
King's Cross

DRAWING TITLE
Flank scaffolds and
bridged lighthouse scaffold
Option 1

SCALE	RDG ENGINEERING DRG NO.	REV
AS SHOWN	5007-19-02-002	A

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