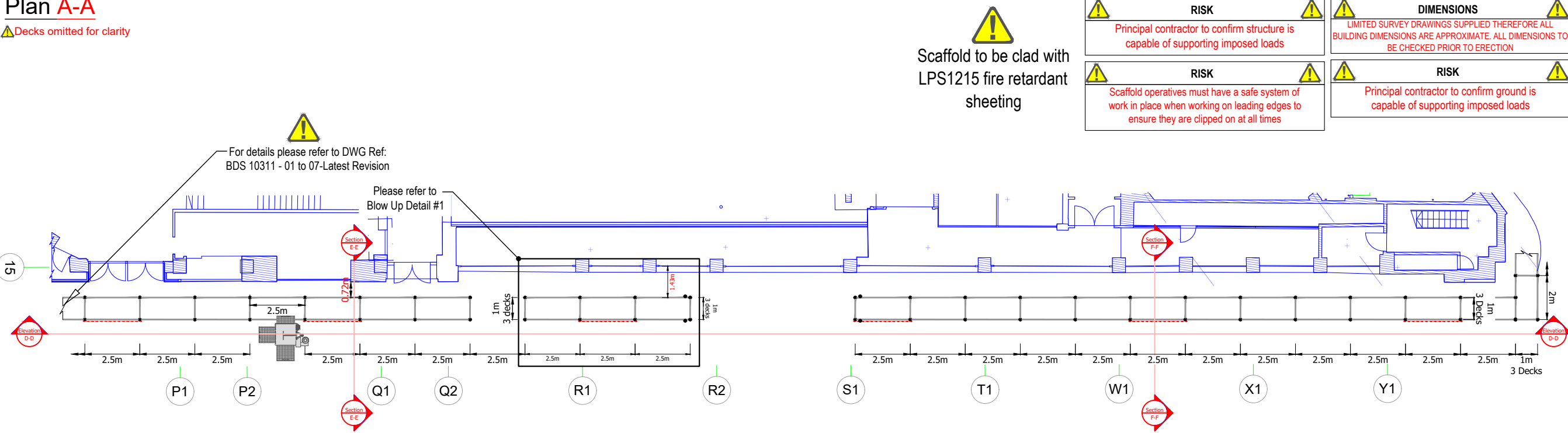


Plan A-A

Decks omitted for clarity



RISK

Principal contractor to confirm structure is capable of supporting imposed loads

RISK

Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times

DIMENSIONS

LIMITED SURVEY DRAWINGS SUPPLIED THEREFORE ALL BUILDING DIMENSIONS ARE APPROXIMATE. ALL DIMENSIONS TO BE CHECKED PRIOR TO ERECTION

RISK

Principal contractor to confirm ground is capable of supporting imposed loads

CDM REGULATIONS 2015

The Construction (design & management) Regulations 2015, Require that we make customers aware of their duties imposed by the regulations. Guidance on your duties are published by the HSE in the form of an approved code of practice.

TG4:19

Scaffold tie arrangements must be erected/tested in accordance with the guidance notes set out in TG4:19 (Anchorage Systems for Scaffolding)

TG4:19 (TIE TESTING REQUIREMENTS)

- Preliminary Load Test - This anchor to 2 x 4.28kN = 8.56kN If the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x 4.28kN = 5.35kN 'pull out'.
- Should the test load fall below the above figures, then the tying configuration to be re-evaluated.

SG4:22

The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:22

LADDER ACCESS

LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity)

PEDESTRIAN PROTECTION

PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:21

RISK

ALL DECKS TO BE ADEQUATELY SECURED IN THE EVENT OF HIGH WINDS

CLASS B COUPLERS

ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS CLASS B COUPLER: SWL = 9.1kN

METRIX SYSTEM SCAFFOLD

Exact standard locations may vary on site, however max bay lengths (2.5m) & widths (1m) must not be exceeded. Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

METRIX SYSTEM SCAFFOLD

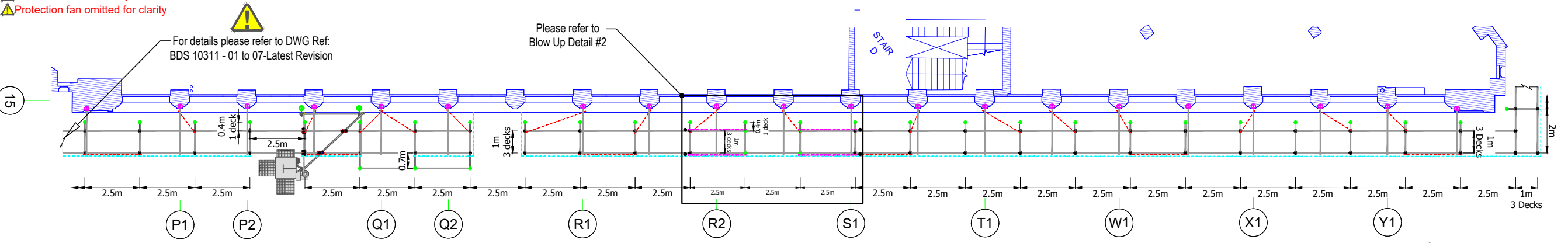
Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

Legend

- Tube
- Spur/Pull Back
- FR Sheeting
- Bracing
- Standard
- Puncheon
- Shear Tie
- 12mm ADI Tie
- Check Coupler

Plan B-B

Decks omitted for clarity
Protection fan omitted for clarity



12mm ADI SCE Restraint Eye & 100mm nylon insert with minimum 85mm embedment depth. 12mm Ø drill bit required in concrete & brick

17.13kN
4.28kN

12mm ADI Tie Detail #1

Blow Up Detail #1

12mm ADI Tie Detail #2

Blow Up Detail #2

12mm ADI Tie Detail #3

Double standards required to both inside & outside frames up to the 7th lift

4no. pull backs required to both inside & outside frames

Double standards required to both inside & outside frames up to the 7th lift

Brace required to all tie tube that exceed 300mm from node point

All connections to be made with load bearing couplers

- Fundamental Notes**
- Max bay length 2.5m
 - Max bay width 3 Decks
 - Max transom spacing N/A
 - Max lift height 2m
 - All connections except board bearers to be made using load bearing fittings
 - Exact standard locations may vary on site, however max bay lengths/widths etc must not be exceeded
 - Max tie grid - As Shown

Client:

MAXIMUM LOADINGS

Independent - 1no. Lift - 2kN/m² (200kg/m²)
All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)

THESE LOADING MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may effect the scaffolds structural stability to be made without prior written notice from BDS Ltd

Project: Ryland Building, Manchester

Drawing Title: External Independent Access with Stair Access Scaffold to Tib St

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 06/10/2023
Signed:	Signed:	Approval: 16/10/2023
Checked by: Mike Brown		Date: 01/11/2023
Signed:		

Drawing No. BDS-10312-01

Revision B

A	Issued For Approval	16/10/2023
B	Waste Removal Gap Introduced. Issued For Construction	01/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Notes:

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The design and erection of scaffolds are to conform with the following British Standards and Codes of Practice:

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- BS2482 Specification for Timber Boards
- BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
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- TG20:21 Guide to Good Practice for Scaffolding with Tube and Fittings
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- BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind
- BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.

T: 0800 270 7998 E: info@buckleydesigns.co.uk

Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing

Plan C-C

Decks omitted for clarity



Scaffold to be clad with LPS1215 fire retardant sheeting

RISK

Principal contractor to confirm structure is capable of supporting imposed loads

RISK

Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times

DIMENSIONS

LIMITED SURVEY DRAWINGS SUPPLIED THEREFORE ALL BUILDING DIMENSIONS ARE APPROXIMATE. ALL DIMENSIONS TO BE CHECKED PRIOR TO ERECTION

RISK

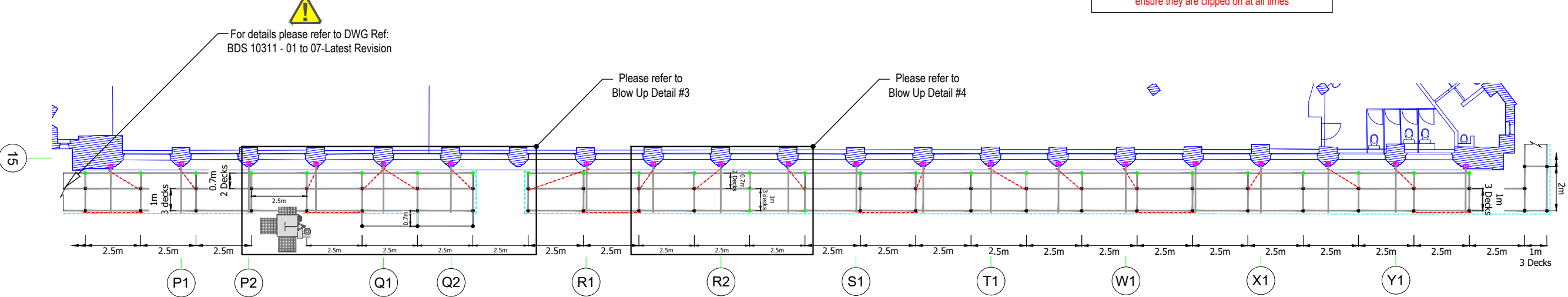
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- Should the test load fall below the above figures, then the tying configuration to be re-evaluated.

SG4:22

The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:22

LADDER ACCESS

LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity)

PEDESTRIAN PROTECTION

PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:21

RISK

ALL DECKS TO BE ADEQUATELY SECURED IN THE EVENT OF HIGH WINDS

CLASS B COUPLERS

ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS
CLASS B COUPLER: SWL = 9.1kN

METRIX SYSTEM SCAFFOLD

Exact standard locations may vary on site, however max bay lengths (2.5m) & widths (1m) must not be exceeded. Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

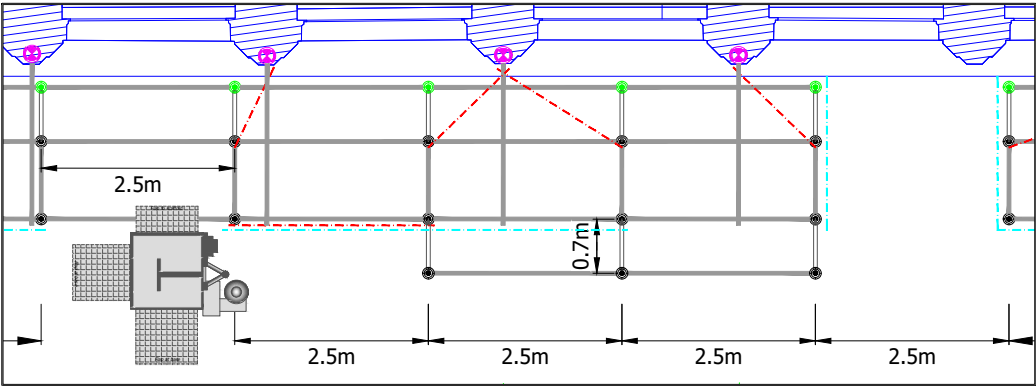
METRIX SYSTEM SCAFFOLD

Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

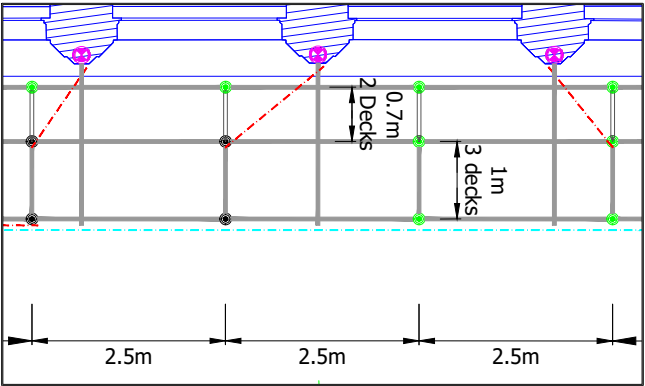
Legend

- Tube
- Spur/Pull Back
- FR Sheeting
- Bracing
- Standard
- Puncheon
- Shear Tie
- 12mm ADI Tie
- Check Coupler

Blow Up Detail #3

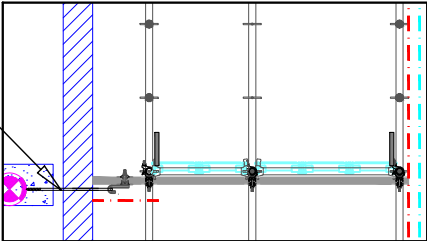


Blow Up Detail #4

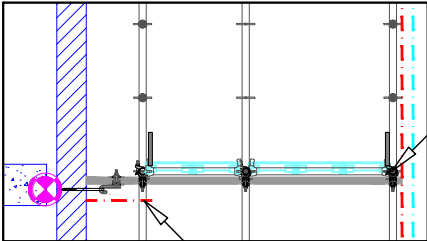


12mm ADI SCE Restraint Eye & 100mm nylon insert with minimum 85mm embedment depth. 12mm Ø drill bit required in concrete & brick

12mm ADI Tie Detail #1



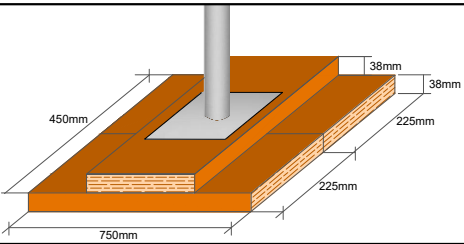
12mm ADI Tie Detail #2



All connections to be made with load bearing couplers

Brace required to all tie tube that exceed 300mm from node point

750 x 450mm Sole Pad Detail



Fundamental Notes

- Max bay length 2.5m
- Max bay width 3 Decks
- Max transom spacing N/A
- Max lift height 2m
- All connections except board bearers to be made using load bearing fittings
- Exact standard locations may vary on site, however max bay lengths/widths etc must not be exceeded
- Max tie grid - As Shown

Client:



MAXIMUM LOADINGS

Independent - 1no. Lift - 2kN/m² (200kg/m²)
All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)

THESE LOADING MUST NOT BE EXCEEDED

All Loadings Unfactored
No alterations which may effect the scaffolds structural stability to be made without prior written notice from BDS Ltd



Construction Issue

Project: Ryland Building, Manchester

Drawing Title: External Independent Access with Stair Access Scaffold to Tib St

Drawn by: Adam McCann

Calculations by: J Hollingworth

Draft: 06/10/2023

Signed:

Signed:

Approval: 16/10/2023

Construction: 01/11/2023

Checked by: Mike Brown

Date: 01/11/2023

Signed:

Drawing No.

BDS-10312-02

Revision

B

A Issued For Approval

16/10/2023

B Waste Removal Gap Introduced. Issued For Construction

01/11/2023

C N/A

N/A

D N/A

N/A

E N/A

N/A

Notes:

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The customer should check that we have correctly interpreted his/her requirements, and that all loadings, details, erection & dismantling sequences etc, are correct and practicable.

The Main Contractor is to ensure the ground, structure and/or base provided for our scaffold, is adequate to support the imposed loads applied, including the provision for any necessary spreaders.

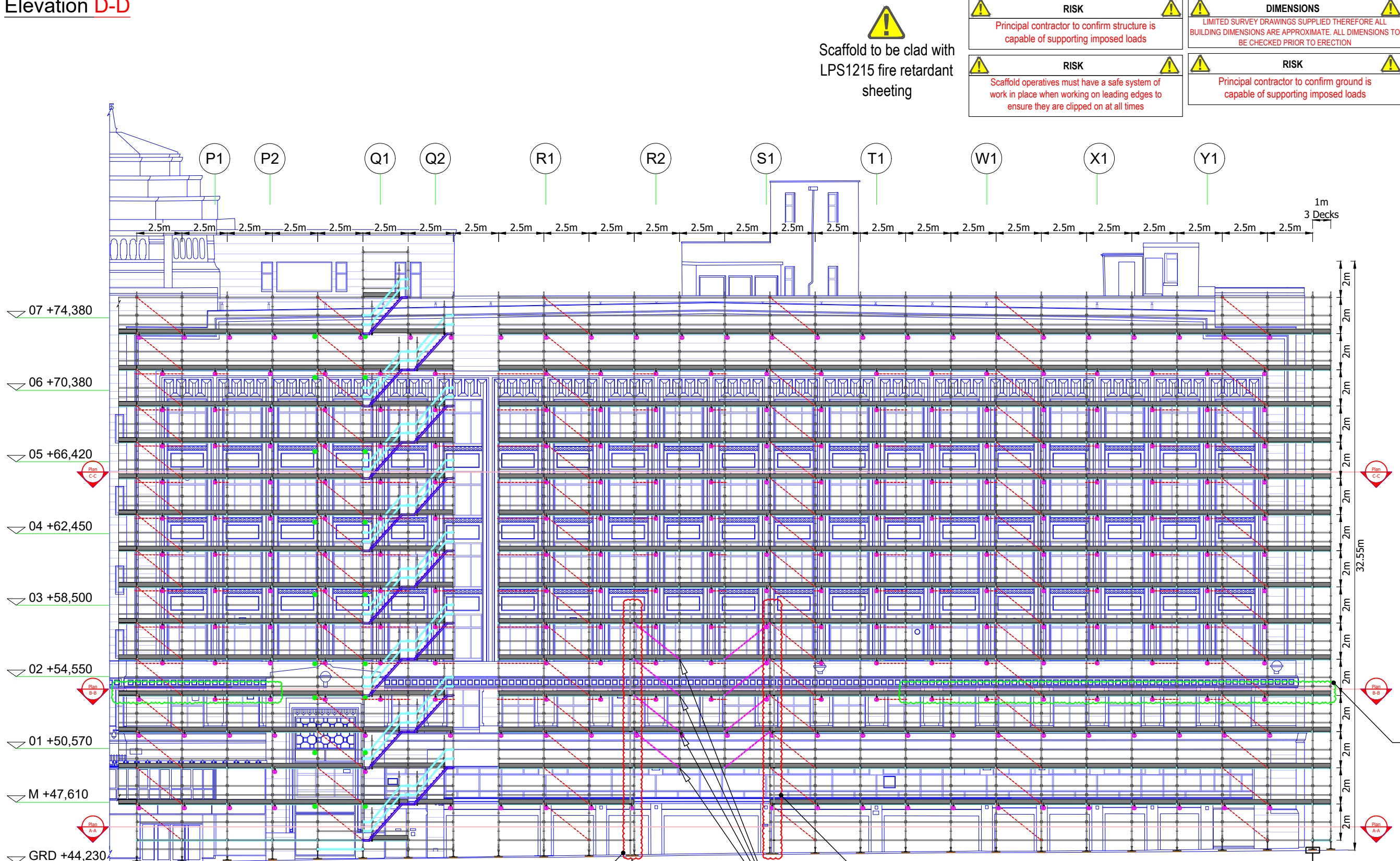
The design and erection of scaffolds are to conform with the following British Standards and Codes of Practice:
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BS2482 Specification for Timber Boards
BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
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TG20:21 Guide to Good Practice for Scaffolding with Tube and Fittings
BS EN 1991-1-1:2002 Eurocode: Actions on Structures - Densities, Self-weight and Imposed Loads
BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind
BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.



Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing

Elevation D-D



RISK

Principal contractor to confirm structure is capable of supporting imposed loads

RISK

Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times

DIMENSIONS

LIMITED SURVEY DRAWINGS SUPPLIED THEREFORE ALL BUILDING DIMENSIONS ARE APPROXIMATE. ALL DIMENSIONS TO BE CHECKED PRIOR TO ERECTION

RISK

Principal contractor to confirm ground is capable of supporting imposed loads

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TG4:19

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TG4:19 (TIE TESTING REQUIREMENTS)

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SG4:22

The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:22

LADDER ACCESS

LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity)

PEDESTRIAN PROTECTION

PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:21

RISK

ALL DECKS TO BE ADEQUATELY SECURED IN THE EVENT OF HIGH WINDS

CLASS B COUPLERS

ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS
CLASS B COUPLER: SWL = 9.1kN

METRIX SYSTEM SCAFFOLD

Exact standard locations may vary on site, however max bay lengths (2.5m) & widths (1m) must not be exceeded. Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

METRIX SYSTEM SCAFFOLD

Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

Legend

- Tube
- Spur/Pull Back
- FR Sheetting
- Bracing
- Standard
- Puncheon
- Shear Tie
- 12mm ADI Tie
- Check Coupler

Protection fan required within GREEN clouded areas

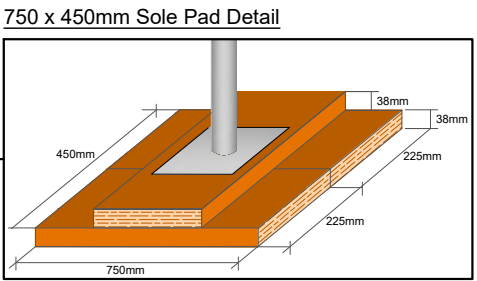
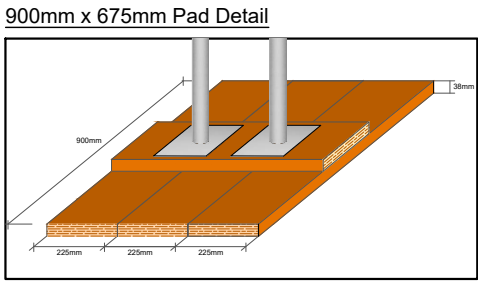
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 - Max tie grid - As Shown

Double standards required to both inside & outside frames up to the 7th lift. Please refer to 900mm x 675mm Pad Detail

**39.39kN (In)
26.13kN (Out)**

4no. pull backs required

Double standards required to both inside & outside frames up to the 7th lift. Please refer to 900mm x 675mm Pad Detail



Client:

CONNOLLY Scaffolding Ltd

MAXIMUM LOADINGS

Independent - 1no. Lift - 2kN/m² (200kg/m²)
All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)

THESE LOADING MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may effect the scaffolds structural stability to be made without prior written notice from BDS Ltd

Construction Issue

Project: Ryland Building, Manchester

Drawing Title: External Independent Access with Stair Access Scaffold to Tib St

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 06/10/2023
Signed: <i>AMC</i>	Signed: <i>JH</i>	Approval: 16/10/2023
Checked by: Mike Brown		Construction: 01/11/2023
Signed: <i>MB</i>		Date: 01/11/2023

Drawing No. **BDS-10312-03**

A	Issued For Approval	16/10/2023
B	Waste Removal Gap Introduced. Issued For Construction	01/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Notes:

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BDS SCAFFOLD DESIGN SPECIALISTS

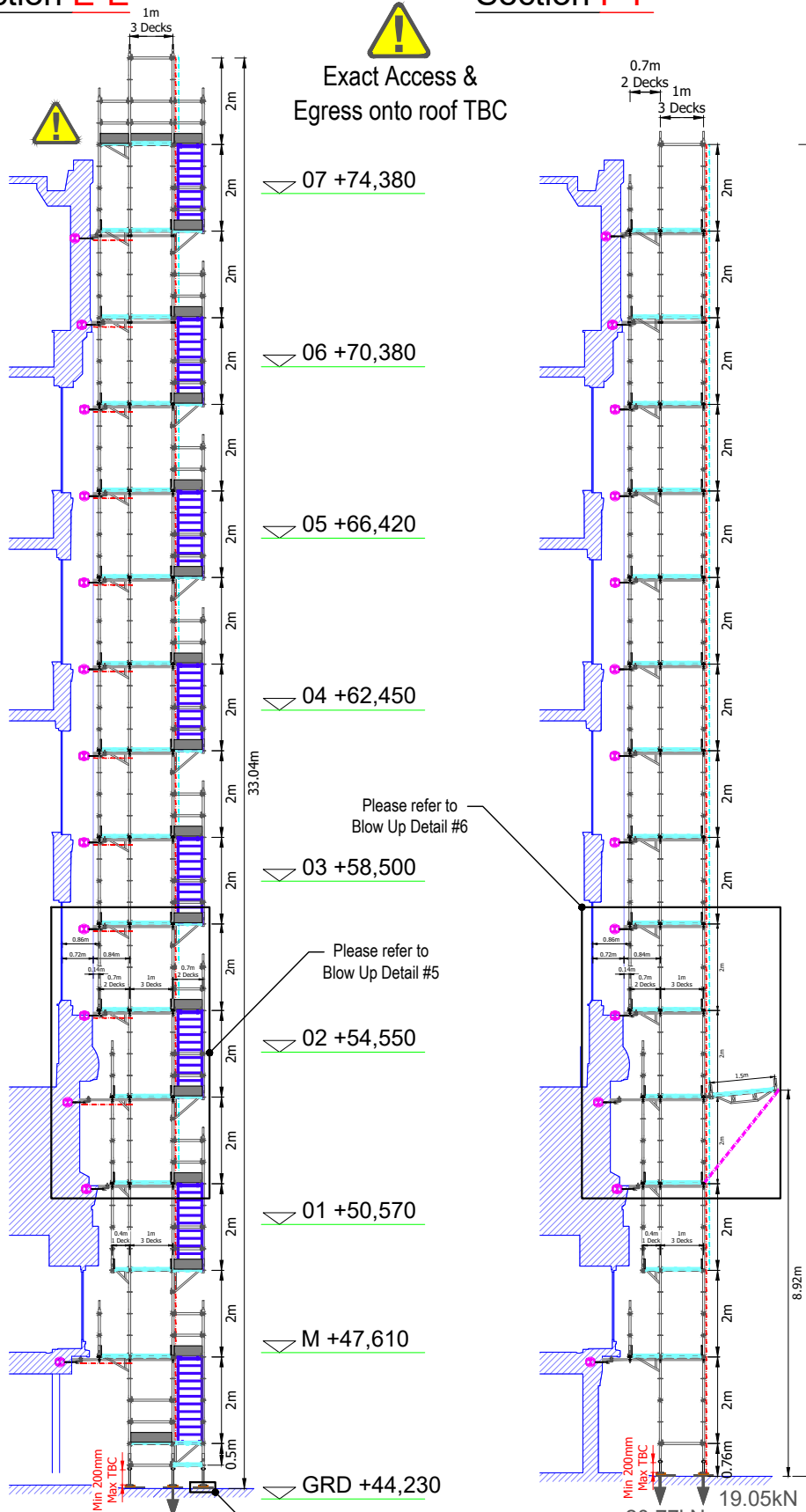
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Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing

Section E-E

Section F-F



Fundamental Notes

1. Max bay length 2.5m
2. Max bay width 3 Decks
3. Max transom spacing N/A
4. Max lift height 2m
5. All connections except board bearers to be made using load bearing fittings
6. Exact standard locations may vary on site, however max bay lengths/widths etc must not be exceeded
7. Max tie grid - As Shown

Please refer to 750mm x 450mm Sole Pad Detail

Client:



MAXIMUM LOADINGS
Independent - 1no. Lift - 2kN/m^2 (200kg/m^2)
All inside decks at - 0.75kN/m^2 (75kg/m^2)
Bolt on Stair Tower - 1.5kN/m^2 (150kg/m^2)

THESE LOADINGS MUST NOT BE EXCEEDED
All Loadings Unfactored
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Construction Issue

Project: Ryland Building, Manchester

Drawing Title: External Independent Access with Stair Access Scaffold to Tib St

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 06/10/2023
Signed:	Signed:	Approval: 16/10/2023
Checked by: Mike Brown		Construction: 01/11/2023
Signed:		Date: 01/11/2023

Drawing No.
BDS-10312-04

A	Issued For Approval	16/10/2023
B	Waste Removal Gap Introduced. Issued For Construction	01/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Revision

B

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Please print all drawings in colour A3 min
Drawing not to scale
dimensions as per drawing

Scaffold to be clad with LPS1215 fire retardant sheeting

RISK
Principal contractor to confirm structure is capable of supporting imposed loads
RISK
Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times

DIMENSIONS
LIMITED SURVEY DRAWINGS SUPPLIED THEREFORE ALL BUILDING DIMENSIONS ARE APPROXIMATE. ALL DIMENSIONS TO BE CHECKED PRIOR TO ERECTION
RISK
Principal contractor to confirm ground is capable of supporting imposed loads

Legend
• Tube
• Spur/Pull Back
• FR Sheeting
• Bracing
• Standard
• Puncheon
• Shear Tie
• 12mm ADI Tie
• Check Coupler

CDM REGULATIONS 2015
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The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:22

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PEDESTRIAN PROTECTION
PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:21

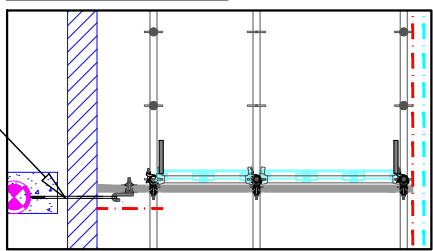
RISK
ALL DECKS TO BE ADEQUATELY SECURED IN THE EVENT OF HIGH WINDS

CLASS B COUPLERS
ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS CLASS B COUPLER: SWL = 9.1kN

METRIX SYSTEM SCAFFOLD
Exact standard locations may vary on site, however max bay lengths (2.5m) & widths (1m) must not be exceeded. Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

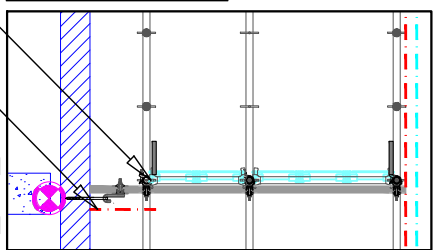
METRIX SYSTEM SCAFFOLD
Metrix system scaffold must be erected & dismantled in accordance with manufacturers guidelines & recommendations

12mm ADI Tie Detail #1



12mm ADI SCE Restraint Eye & 100mm nylon insert with minimum 85mm embedment depth. 12mm Ø drill bit required in concrete & brick

12mm ADI Tie Detail #2

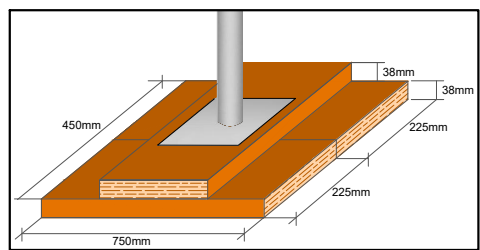


All connections to be made with load bearing couplers

Brace required to all tie tube that exceed 300mm from node point

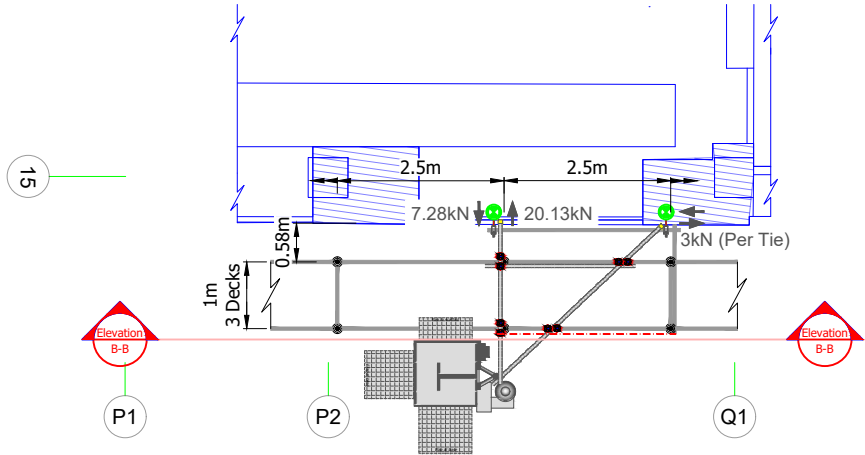
17.13kN
4.28kN

750 x 450mm Sole Pad Detail



Typical Hoist Plan

Decks omitted for clarity



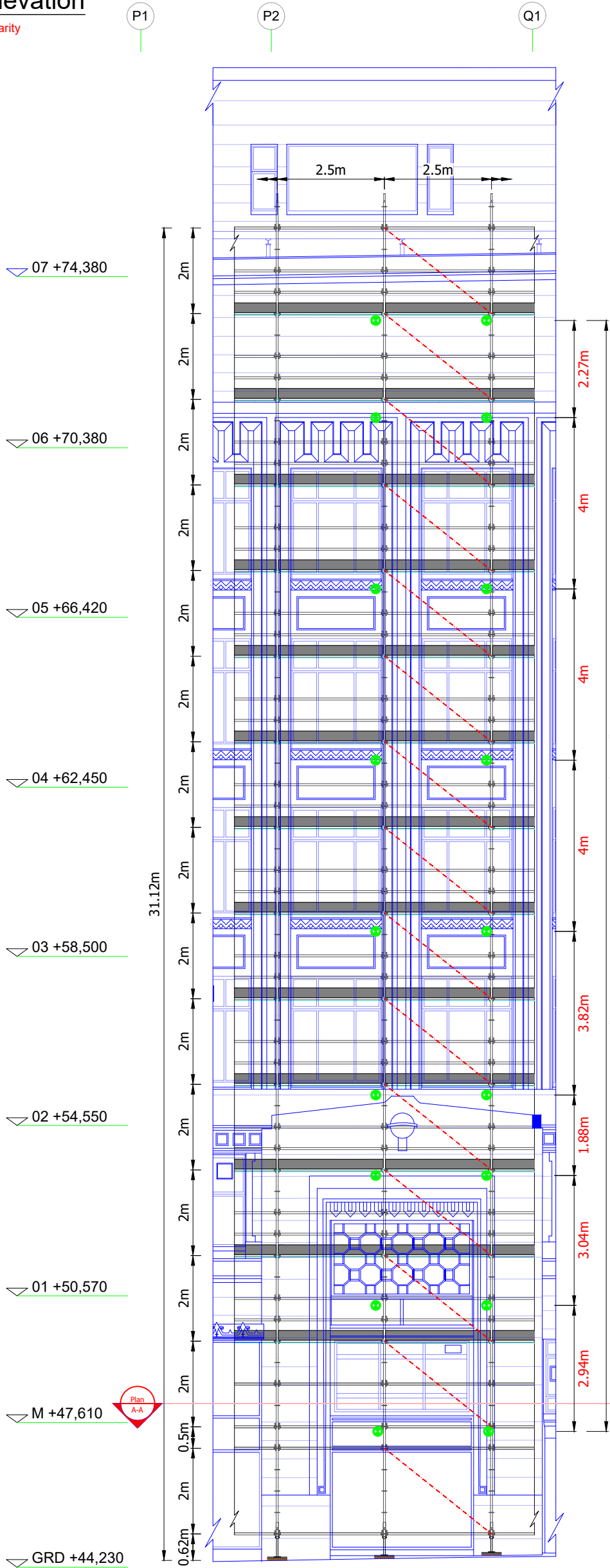
Legend	
	Tube
	Standard
	Shear Tie
	Check Coupler

SHEAR TIE REQUIREMENTS	
Band & Plate shear tie arrangements MUST be fixed to the wall, inline with the details below	
• Bolt Type: ADI, Self Tapping Bolt	
• Bolt Size: 130mm (length) - 12mm Ø Diameter	
• Minimum Embedment Depth: 115mm	
• SWL (shear): 15kN per bolt - (tension): 13kN	
• Spacing Distance: Minimum 400mm	

TG4:19 (SHEAR TIE TESTING REQUIREMENTS)	
• Preliminary Load Test - This anchor to 2 x 7.28kN = 14.56kN If the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x 7.28kN = 9.1kN 'pull out'.	
• Should the test load fall below the above figures, then the tying configuration to be re-evaluated.	

Typical Hoist Elevation

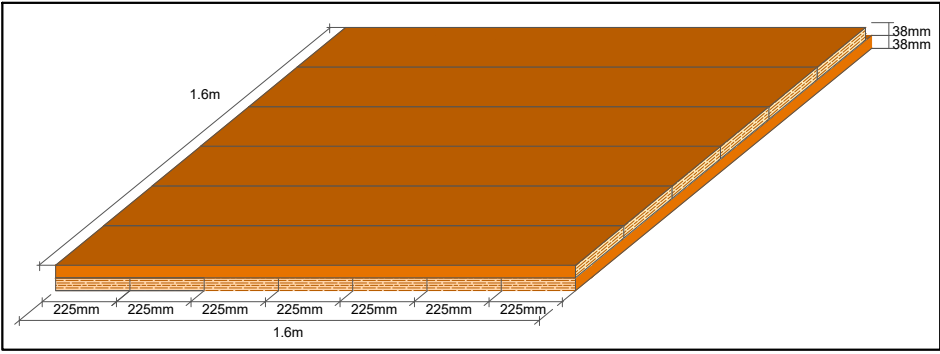
Geda 300z hoist omitted for clarity



Geda 300z Visual



Sole Pad Detail For Hoist
1.6m x 1.6m



Fundamental Notes

1. Max bay length 2.5m
2. Max bay width 3 Decks
3. Max transom spacing N/A
4. Max lift height 2m
5. All connections except board bearers to be made using load bearing fittings
6. Exact standard locations may vary on site, however max bay lengths/widths etc must not be exceeded
7. Max tie grid - As Shown