

Plan A-A

Decks omitted for clarity

Exact Cantilever section to be determined by Connolly stock items

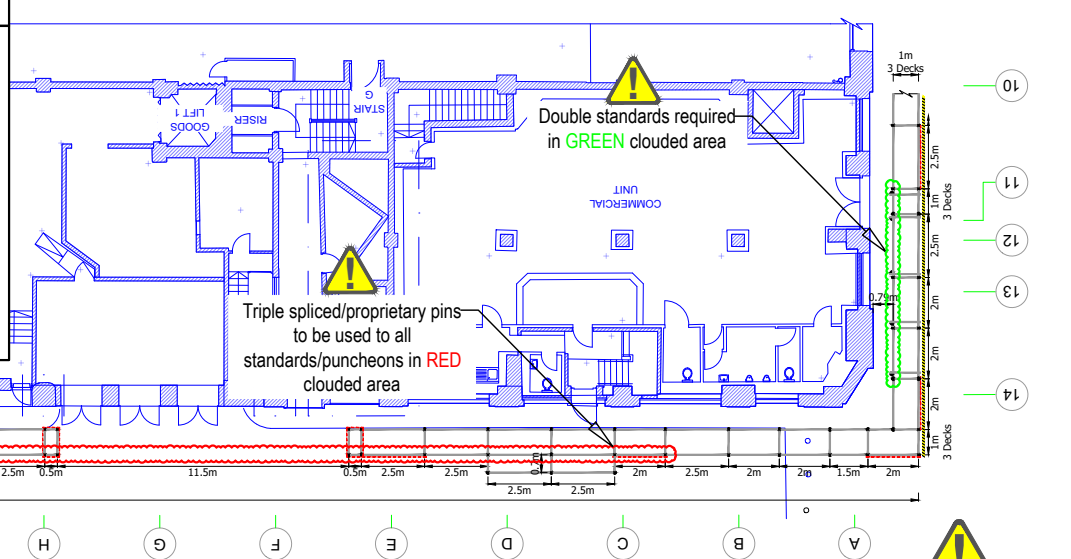
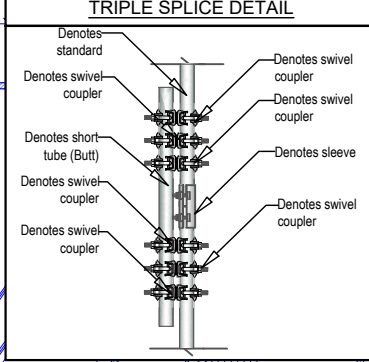
For details please refer to DWG Ref: BDS 10312 - 01 to 04-Latest Revision

Please refer to Blow Up Detail #1

- Notes - 750mm deep Apollo Beam
- All beam/standard connections to be made with load bearing couplers.
 - All beam/puncheon connections to be made with load bearing couplers.
 - Lacing tubes to be fixed to the standards directly below beam/standard connections, thus acting as checker.
 - Lacing tubes to be fixed to the puncheons directly above beam/puncheon connections, thus acting as checker.
 - 'X' brace & Lacing beams together on top & bottom chords at max 1m centres.
 - Plan brace full length of beams on the top chord (compression chord).
 - When lacing multiple beams lacing tube must be fixed to all beams.

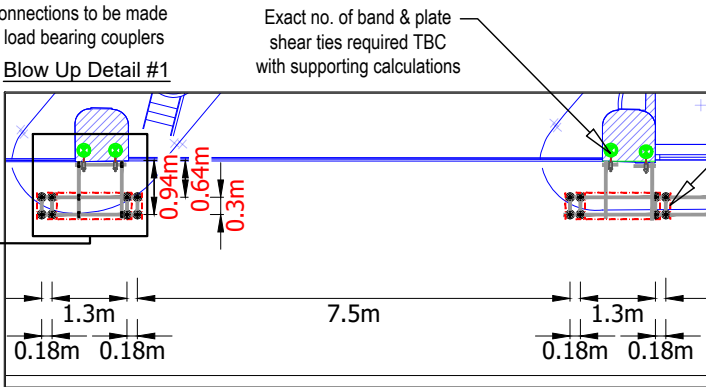
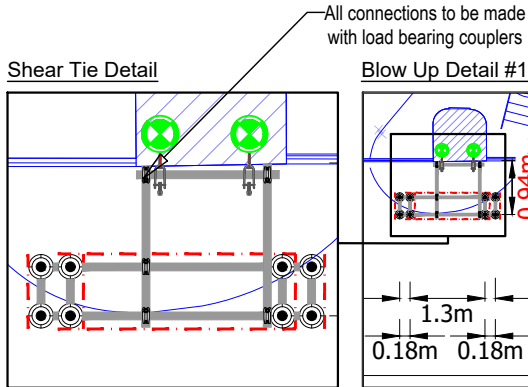
DIMENSIONS
LIMITED SURVEY DRAWINGS SUPPLIED THEREFORE ALL BUILDING DIMENSIONS ARE APPROXIMATE. ALL DIMENSIONS TO BE CHECKED PRIOR TO ERECTION

BACK PROPPING REQUIREMENT
Back propping may be required. Principal Contractor to confirm prior to erection



Plan B-B

Decks omitted for clarity
Boarding, lacing tubes and intermediate transoms omitted for clarity



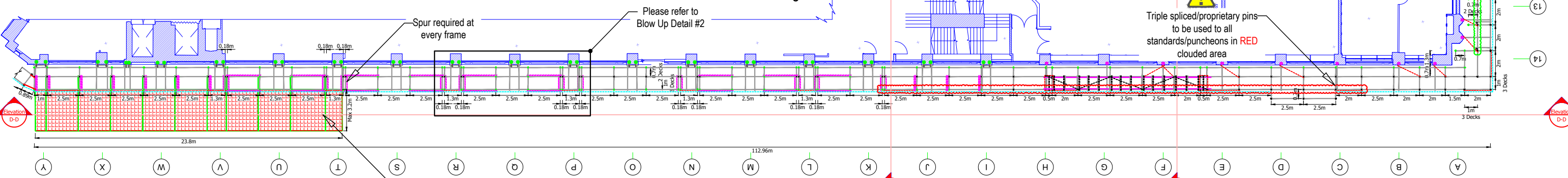
Brace all 4no. sides of support towers

Scaffold to be clad with LPS1215 fire retardant sheeting

- 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 Hole Depth: 115mm
 - Minimum Embedment Depth: 90mm
 - SWL (shear): 15kN per bolt - (tension): 13kN
 - Spacing Distance: Minimum 400mm

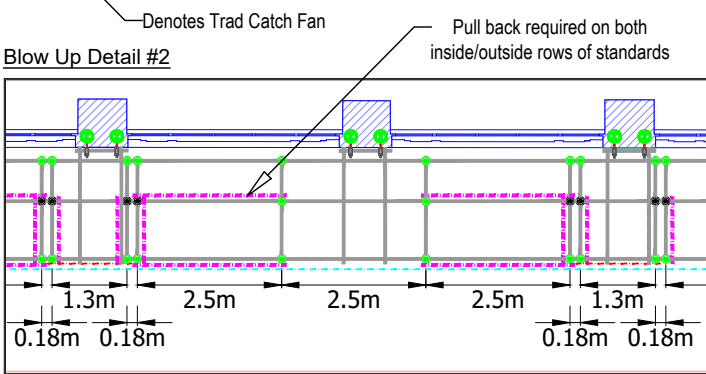
RISK
ADEQUATE TRAFFIC MANAGEMENT MUST BE IN PLACE WHERE SCAFFOLD STRUCTURE CAUSES A RISK FOR MOVING PLANT

For Sole Pad Arrangement please refer to BDS 10313 - 06 - Latest Revision



- Legend**
- Tube
 - 750mm Beam
 - Splay Tube / Banner Frame Tube
 - Hoarding
 - FR Sheeting
 - Saddle Tube
 - Spur/Pull Back Raker
 - Bracing
 - Beam Bracing
 - Standard
 - Roof Founded
 - Standard
 - Puncheon
 - Hanger
 - 12mm ADI Tie
 - Shear Tie

Band & Plate/Saddle Clamp Visual



Exact location of Trad Catch Fan System TBC

Trad Catch Fan System to be installed inline with manufactures guide lines

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

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

SYSTEM STAIR TOWER
ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT

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 8.42kN = 16.84kN If the preliminary load test is successful, then apply the 'proof test' load to the supporting anchors. 1.25 x 8.42kN = 10.53kN 'pull out'.
- Should the test load fail 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)

- Fundamental Notes**
1. Max bay length 2.5m
 2. Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
 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

Doorways to be kept clear at all times

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

RISK
Exact construction of roof unknown. The principal contractor must confirm structure is capable of supporting all imposed loads

RISK
Scaffold contractor to include in their RAMS identification of skylight risks & eliminate

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

RISK
Principal contractor to confirm ground is capable of supporting imposed loads

RISK
Principal contractor to confirm structure is capable of supporting imposed loads

Client:

MAXIMUM LOADINGS
Independent - 1no. Lift - 2kN/m² (200kg/m²)
Independent - 1no. Lift - 1kN/m² (100kg/m²)
All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase One - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase Two - 0.75kN/m² (75kg/m²)

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

Construction Issue

Project: Rylands Building, Manchester

Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 20/10/2023
Signed:	Signed:	Approval: 10/11/2023
Checked by: Mike Brown		Construction: 23/11/2023
Signed:		Date: 23/11/2023

Drawing No.		Revision
BDS-10313-01		B
A	Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval	10/11/2023
B	Drawing Issued For Construction	23/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Notes:

This drawing is confidential and is the exclusive property of BDS Ltd. No unauthorised use, copy or disclosure is to be made, and is to be returned upon request.

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:

- BS1139 Metal Scaffolding
- BS2482 Specification for Timber Boards
- BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
- BS EN 12812-1:2008 Falsework: Performance requirements & general design
- 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.

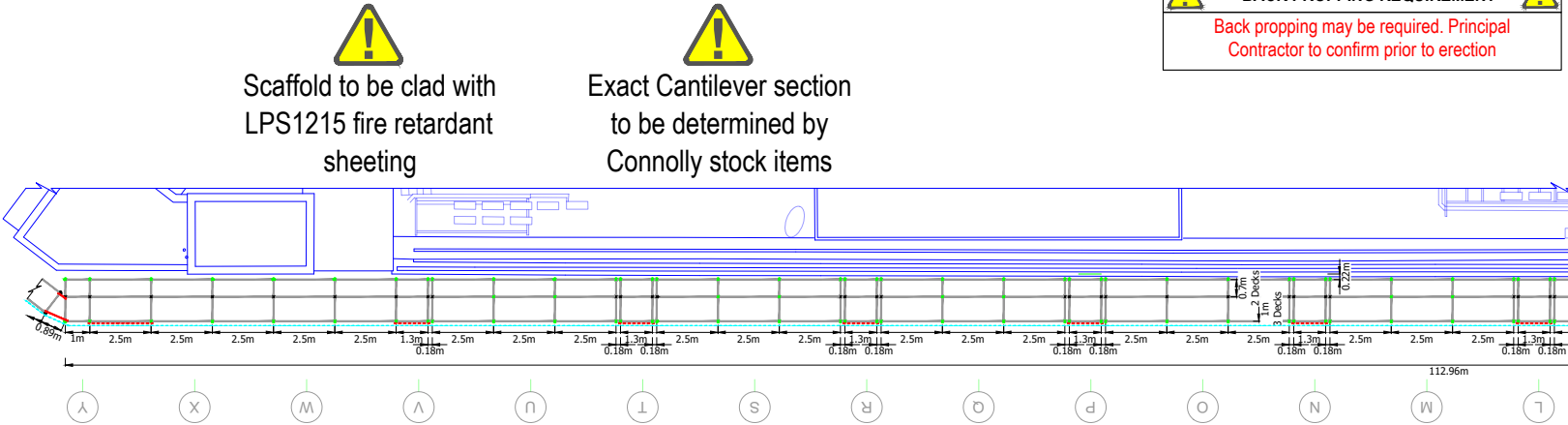
BDS SCAFFOLD DESIGN SPECIALISTS

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

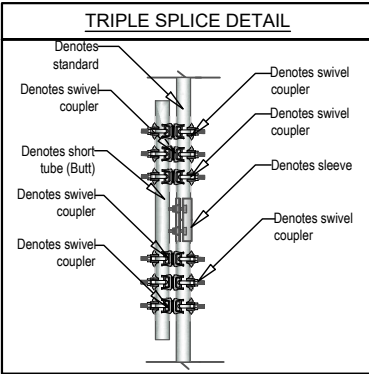
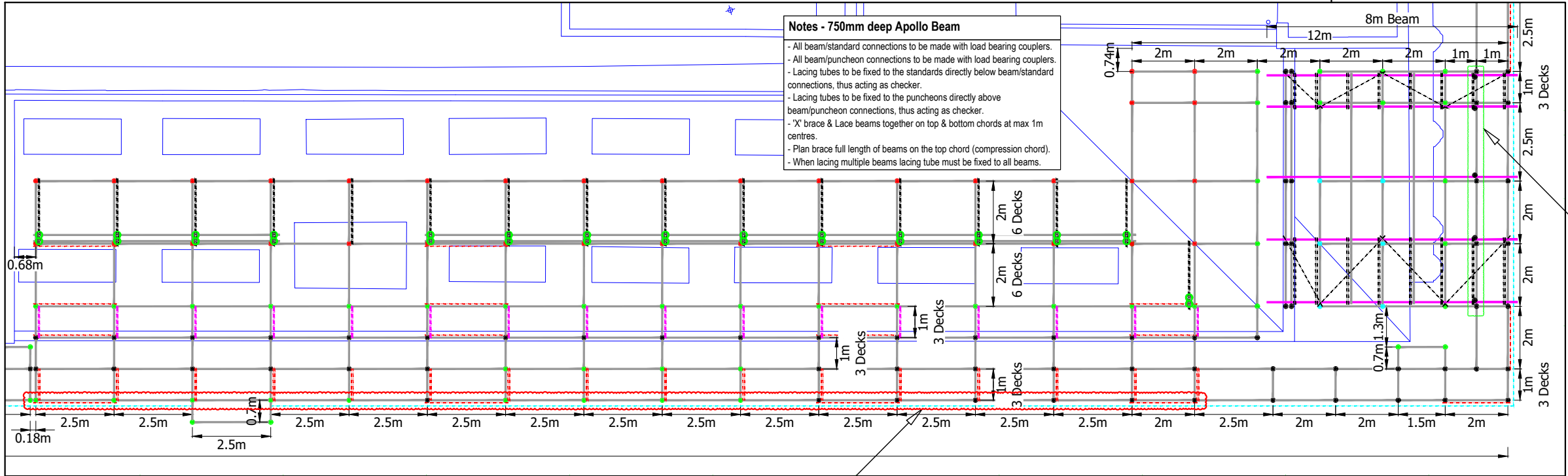
Please print all drawings in colour A3 min
Drawing not to scale
dimensions as per drawing

Plan C-C

Decks omitted for clarity
Boarding, lacing tubes and intermediate transoms omitted for clarity



Blow Up Detail #3



Legend

Tube	750mm Beam	Splay Tube / Banner	Hoarding	FR Sheetting	Saddle Tube	Spur/Pull Back Raker	Bracing	Beam Bracing	Standard	Standard	Standard	Punchoon	Hanger	12mm ADI Tie	Shear Tie
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Band & Plate/Saddle Clamp Visual



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 Hole Depth: 115mm
- Minimum Embedment Depth: 90mm
- SWL (shear): 15kN per bolt - (tension): 13kN
- Spacing Distance: Minimum 400mm

For Sole Pad Arrangement please refer to BDS 10313 - 06 - Latest Revision

Triple spliced/proprietary pins to be used to all standards/punchoons in RED clouded area

Exact location of Trad Catch Fan System TBC

Trad Catch Fan System to be installed inline with manufactures guide lines

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

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

SYSTEM STAIR TOWER
ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT

CDM REGULATIONS 2015
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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 8.42kN = 16.84kN If the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x 8.42kN = 10.53kN '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)

RISK
Exact construction of roof unknown. The principal contractor must confirm structure is capable of supporting all imposed loads

RISK
Scaffold contractor to include in their RAMS identification of skylight risks & eliminate

RISK
Scaffold contractor to include in their RAMS safe system of working on the roof

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

RISK
Principal contractor to confirm ground is capable of supporting imposed loads

RISK
Principal contractor to confirm structure is capable of supporting imposed loads

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

Fundamental Notes

- Max bay length 2.5m
- Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
- 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)
Independent - 1no. Lift - 1kN/m² (100kg/m²)
All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase One - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase Two - 0.75kN/m² (75kg/m²)
THESE LOADINGS MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may affect the scaffolds structural stability to be made without prior written notice from BDS Ltd



Project: Rylands Building, Manchester

Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 20/10/2023
Signed: [Signature]	Signed: [Signature]	Approval: 10/11/2023
Checked by: Mike Brown		Construction: 23/11/2023
Signed: [Signature]		Date: 23/11/2023

Drawing No.
BDS-10313-02

Revision		
A	Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval	10/11/2023
B	Drawing Issued For Construction	23/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Notes:

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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:
BS1139 Metal Scaffolding
BS2482 Specification for Timber Boards
BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
BS EN 12812-1:2008 Falsework: Performance requirements & general design
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.

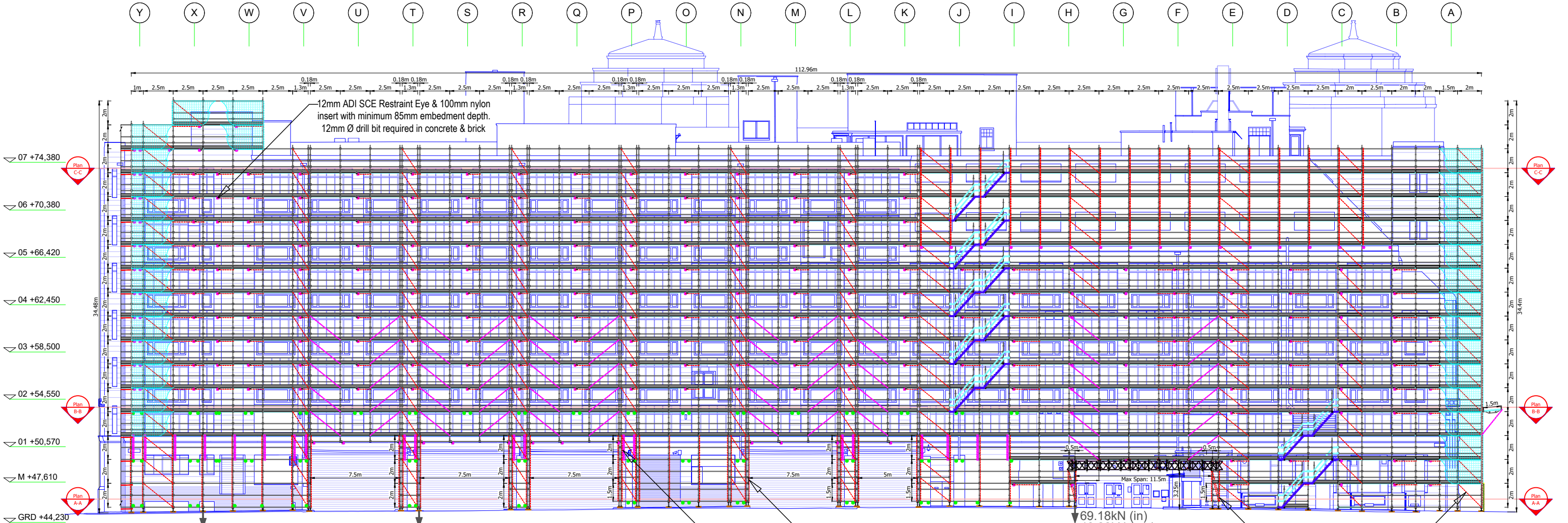


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Drawing not to scale
dimensions as per drawing

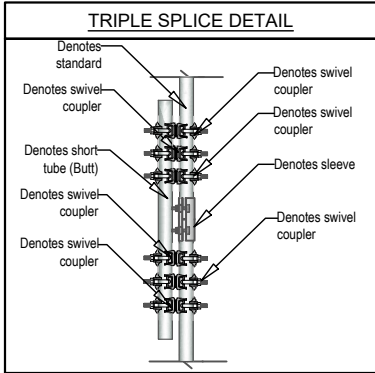
Elevation D-D

Trad catch fan omitted for clarity

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



BACK PROPPING REQUIREMENT
Back propping may be required. Principal Contractor to confirm prior to erection



Scaffold to be clad with LPS1215 fire retardant sheeting

Exact Cantilever section to be determined by Connolly stock items

Doorways to be kept clear at all times

Trad Catch Fan System to be installed inline with manufactures guide lines

For Sole Pad Arrangement please refer to BDS 10313-06 - Latest Revision

Legend

Tube	750mm Beam	Splay Tube / Banner Frame Tube	Hoarding	FR Sheeting	Saddle Tube	Spur/Pull Back Raker	Bracing	Beam Bracing	Standard	Roof Founded Standard	Punchoon	Hanger	12mm ADI Tie	Shear Tie
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SHEAR TIE REQUIREMENTS
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RISK
ADEQUATE TRAFFIC MANAGEMENT MUST BE IN PLACE WHERE SCAFFOLD STRUCTURE CAUSES A RISK FOR MOVING PLANT

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

- Fundamental Notes
- Max bay length 2.5m
 - Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
 - 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

MAXIMUM LOADINGS
Independent - 1no. Lift - 2kN/m² (200kg/m²)
Independent - 1no. Lift - 1kN/m² (100kg/m²)
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Bolt on Stair Tower - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase One - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase Two - 0.75kN/m² (75kg/m²)

Construction Issue

Project: Rylands Building, Manchester

Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place	
Drawn by: Adam McCann	Calculations by: J Hollingworth
Signed: [Signature]	Signed: [Signature]
Checked by: Mike Brown	Date: 23/11/2023

Drawing No.	BDS-10313-03
Revision	B
A	Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval
B	Drawing Issued For Construction
C	N/A
D	N/A
E	N/A

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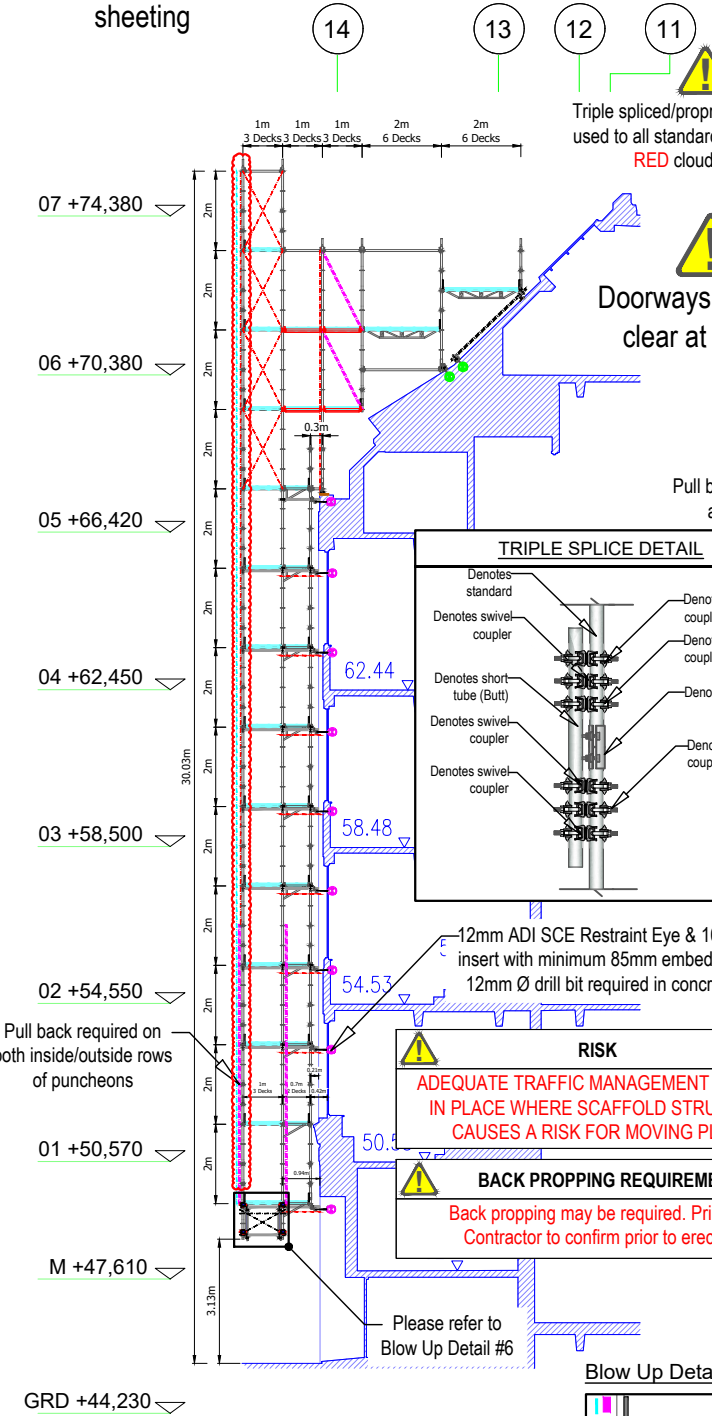
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BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.

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

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Drawing not to scale
dimensions as per drawing

Section E-E

Scaffold to be clad with LPS1215 fire retardant sheeting



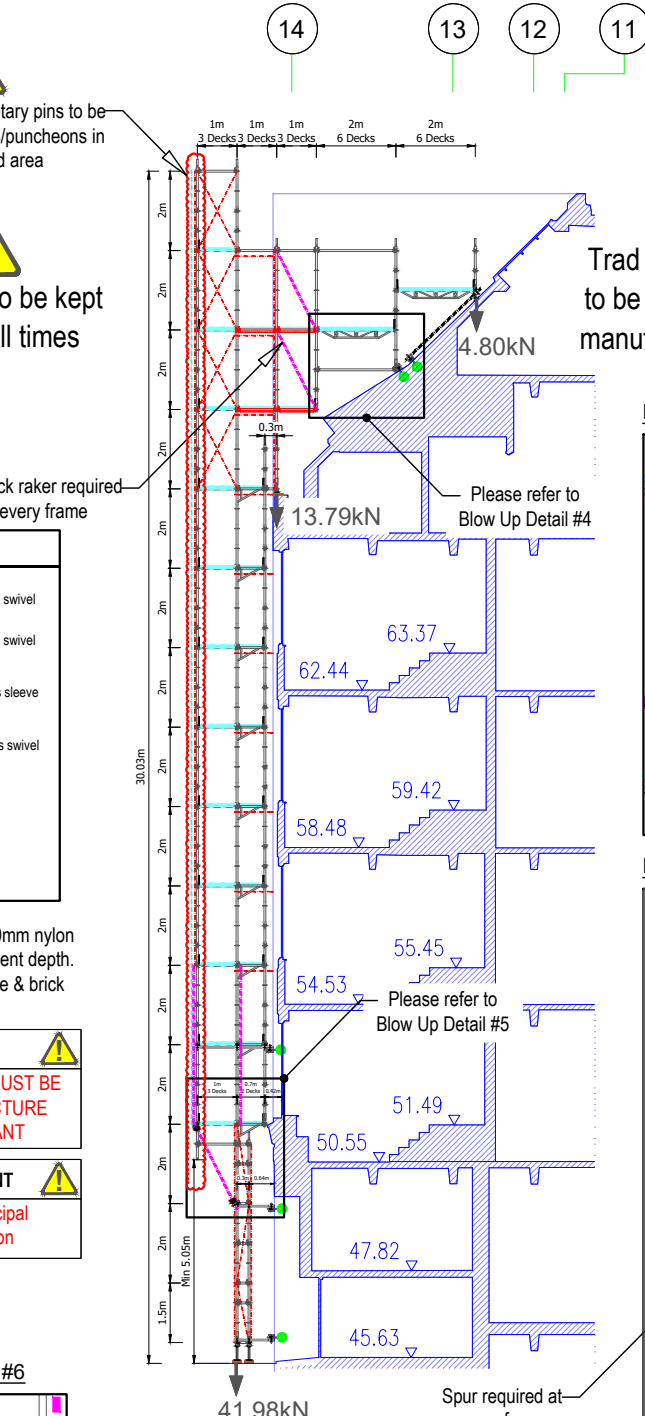
Fundamental Notes

1. Max bay length 2.5m
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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



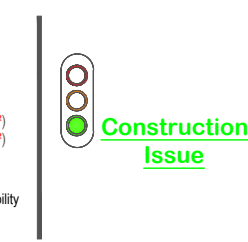
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Bolt on Stair Tower - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase One - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase Two - 0.75kN/m² (75kg/m²)
THESE LOADINGS MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may affect the scaffolds structural stability to be made without prior written notice from BDS Ltd

Section F-F

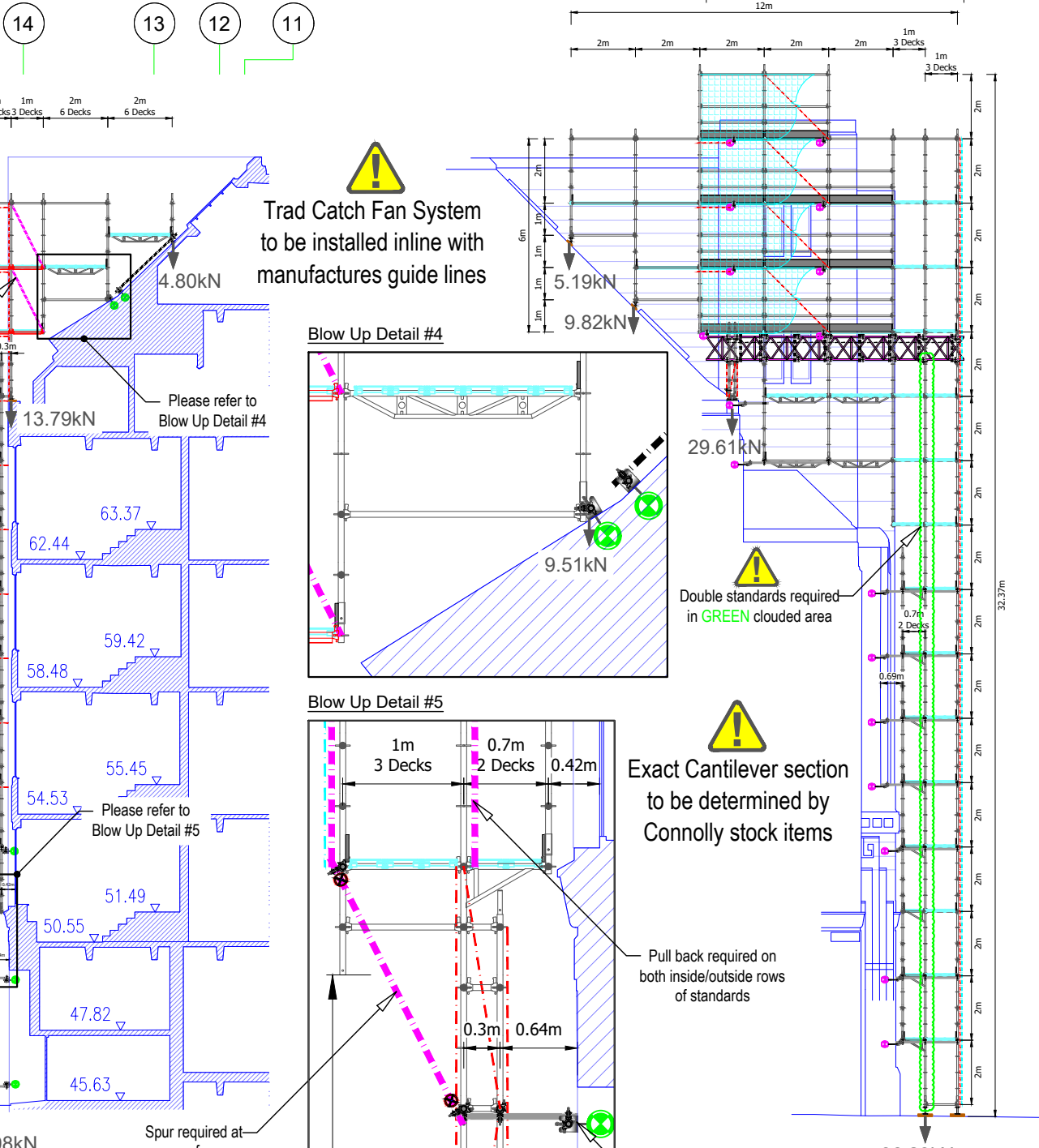


Fundamental Notes

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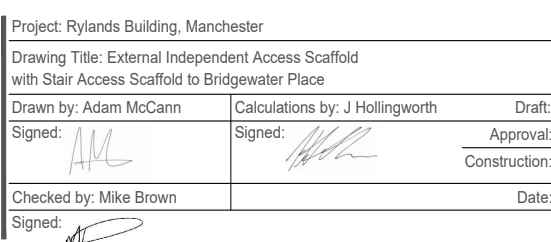


Section G-G

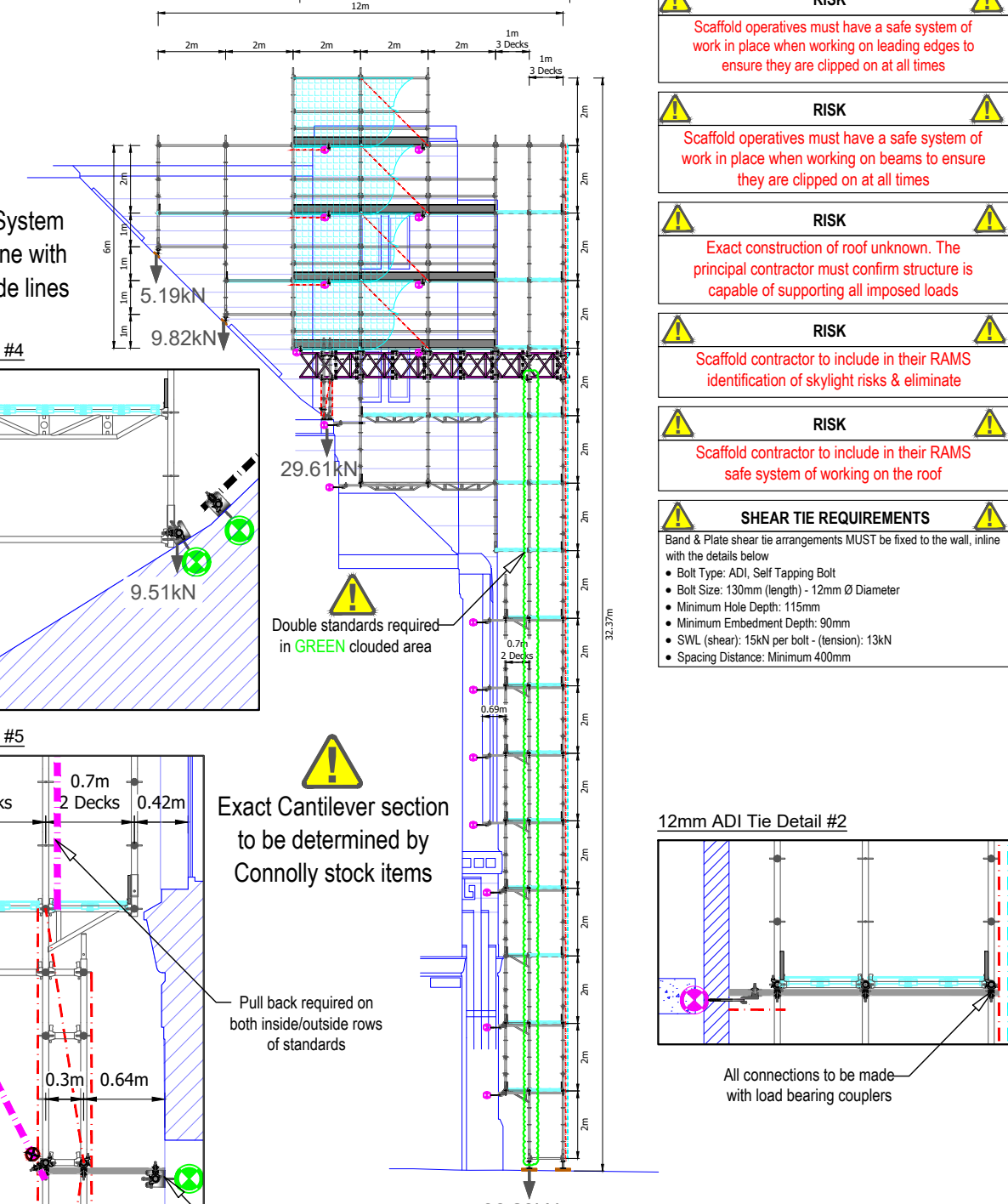


Fundamental Notes

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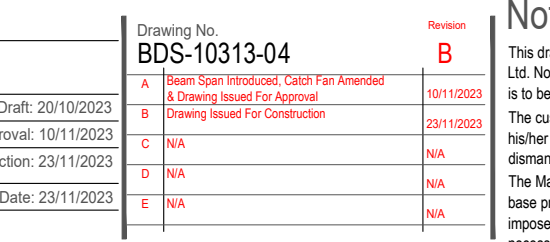


Section H-H

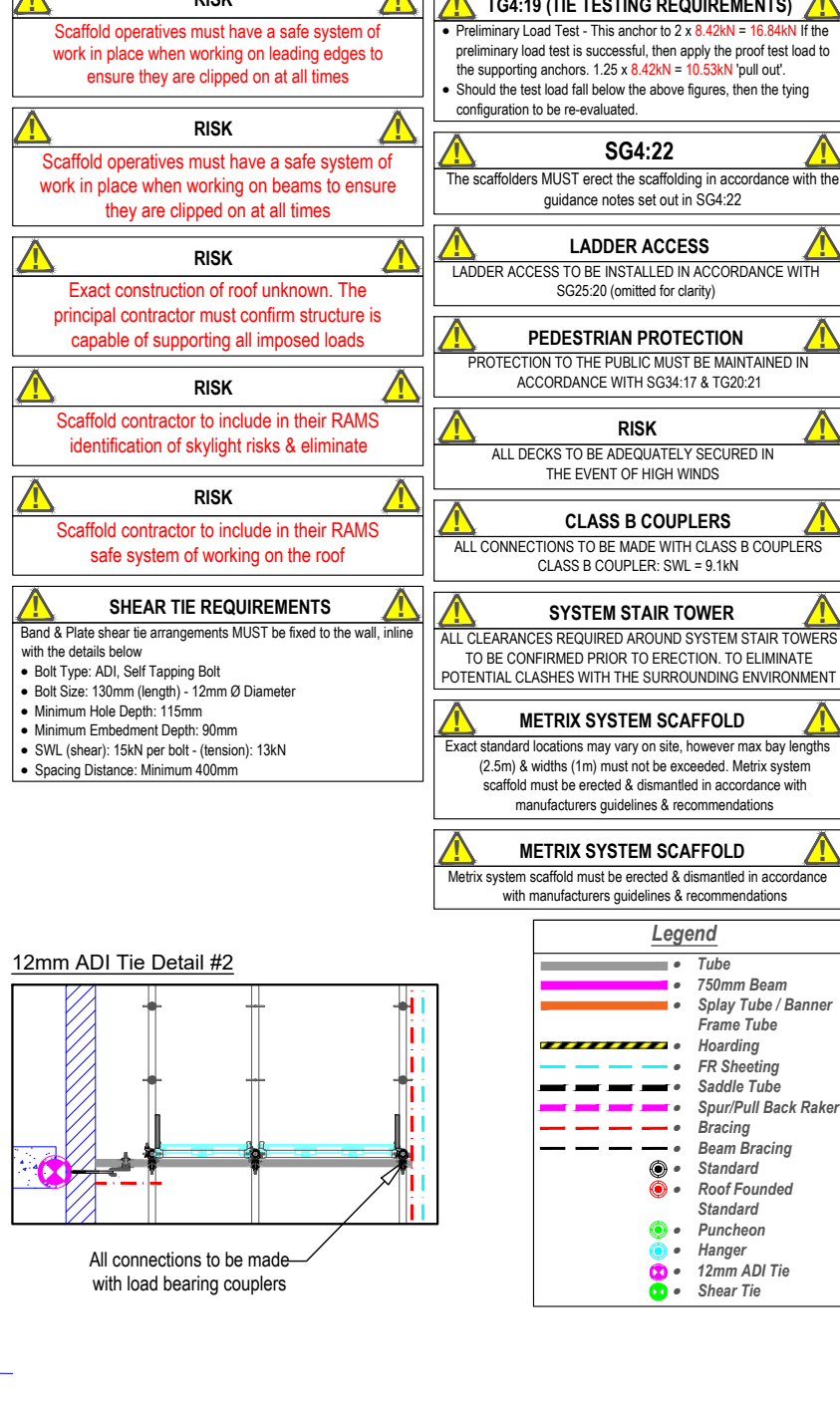


Fundamental Notes

1. Max bay length 2.5m
2. Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
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

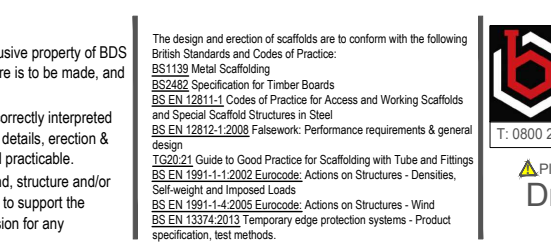


Section I-I

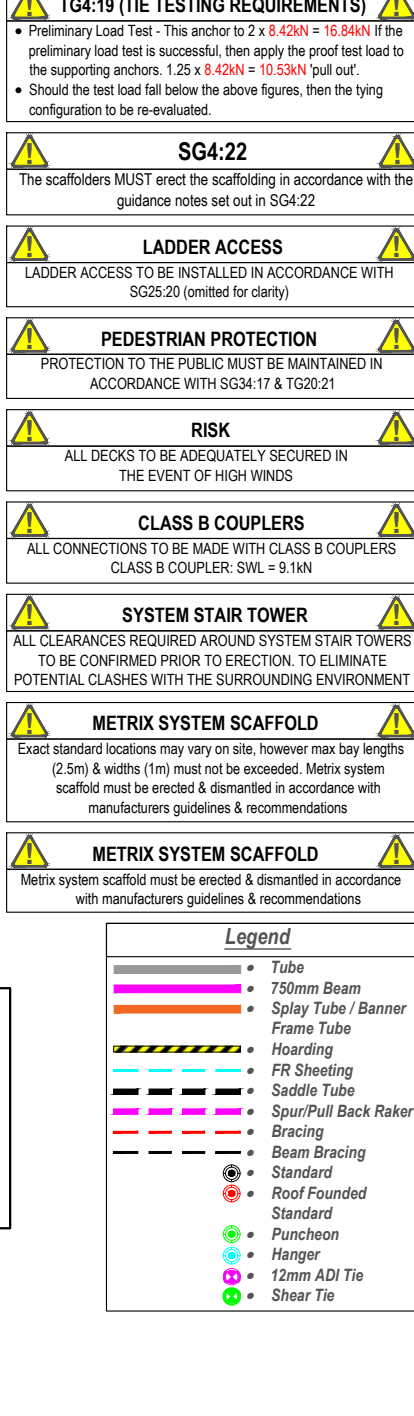


Fundamental Notes

1. Max bay length 2.5m
2. Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
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



Section J-J



Fundamental Notes

1. Max bay length 2.5m
2. Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
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



Client:

CONNOLLY Scaffolding Ltd

Construction Issue

Project: Rylands Building, Manchester

Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place

Drawn by: Adam McCann

Calculations by: J Hollingworth

Draft: 20/10/2023

Signed: [Signature]

Approval: [Signature]

Construction: 23/11/2023

Checked by: Mike Brown

Date: 23/11/2023

Signed: [Signature]

Drawing No. BDS-10313-04

Revision B

A	Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval	10/11/2023
B	Drawing Issued For Construction	23/11/2023
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:

- BS1139 Metal Scaffolding
- BS2482 Specification for Timber Boards
- BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
- BS EN 12812-1:2008 Falsework: Performance requirements & general design
- BS EN 12812-2:2008 Falsework: Performance requirements & general design
- BS EN 12812-3:2008 Falsework: Performance requirements & general design
- BS EN 12812-4:2008 Falsework: Performance requirements & general design
- BS EN 12812-5:2008 Falsework: Performance requirements & general design
- BS EN 12812-6:2008 Falsework: Performance requirements & general design
- BS EN 12812-7:2008 Falsework: Performance requirements & general design
- BS EN 12812-8:2008 Falsework: Performance requirements & general design
- BS EN 12812-9:2008 Falsework: Performance requirements & general design
- BS EN 12812-10:2008 Falsework: Performance requirements & general design
- BS EN 12812-11:2008 Falsework: Performance requirements & general design
- BS EN 12812-12:2008 Falsework: Performance requirements & general design
- BS EN 12812-13:2008 Falsework: Performance requirements & general design
- BS EN 12812-14:2008 Falsework: Performance requirements & general design
- BS EN 12812-15:2008 Falsework: Performance requirements & general design
- BS EN 12812-16:2008 Falsework: Performance requirements & general design
- BS EN 12812-17:2008 Falsework: Performance requirements & general design
- BS EN 12812-18:2008 Falsework: Performance requirements & general design
- BS EN 12812-19:2008 Falsework: Performance requirements & general design
- BS EN 12812-20:2008 Falsework: Performance requirements & general design
- BS EN 12812-21:2008 Falsework: Performance requirements & general design
- BS EN 12812-22:2008 Falsework: Performance requirements & general design
- BS EN 12812-23:2008 Falsework: Performance requirements & general design
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- BS EN 12812-99:2008 Falsework: Performance requirements & general design
- BS EN 12812-100:2008 Falsework: Performance requirements & general design

BDS SCAFFOLD DESIGN SPECIALISTS

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

Section F-F (Phase 1)

DIMENSIONS

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

Section F-F (Phase 2)

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.

RISK

Principal contractor to confirm structure is capable of supporting imposed loads

TG4:19

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

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

TG4:19 (TIE TESTING REQUIREMENTS)

- Preliminary Load Test - This anchor to $2 \times 8.42\text{kN} = 16.84\text{kN}$ if the preliminary load test is successful, then apply the proof test load to the supporting anchors. $1.25 \times 8.42\text{kN} = 10.53\text{kN}$ 'pull out'.
- Should the test load fall below the above figures, then the tying configuration to be re-evaluated.

RISK

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

SG4:22

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

RISK

Exact construction of roof unknown. The principal contractor must confirm structure is capable of supporting all imposed loads

LADDER ACCESS

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

RISK

Scaffold contractor to include in their RAMS identification of skylight risks & eliminate

PEDESTRIAN PROTECTION

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

RISK

Scaffold contractor to include in their RAMS safe system of working on the roof

RISK

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

RISK

Scaffold contractor to include in their RAMS safe system of working on the roof

CLASS B COUPLERS

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

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 Hole Depth: 115mm
- Minimum Embedment Depth: 90mm
- SWL (shear): 15kN per bolt - (tension): 13kN
- Spacing Distance: Minimum 400mm

SYSTEM STAIR TOWER

ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT

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 #2

All connections to be made with load bearing couplers

Legend

- Tube
- 750mm Beam
- Splay Tube / Banner Frame Tube
- Hoarding
- FR Sheetting
- Saddle Tube
- Spur/Pull Back Raker
- Bracing
- Beam Bracing
- Standard
- Roof Founded Standard
- Punchcon
- Hanger
- 12mm ADI Tie
- Shear Tie

12mm ADI Tie Detail #1

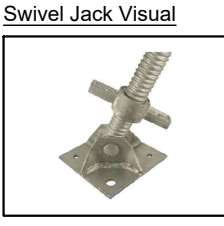
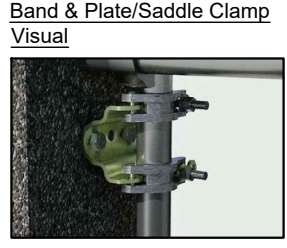
For Sole Pad Arrangement please refer to BDS 10313 - 06 - Latest Revision

Fundamental Notes

- Max bay length 2.5m
- Max bay width 3 decks (Independent) - 6 Decks (Mansard Access Scaffold)
- 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

Exact Cantilever section to be determined by Connolly stock items

Doorways to be kept clear at all times



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

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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.



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Drawing not to scale

dimensions as per drawing



MAXIMUM LOADINGS

Independent - 1no. Lift - 2kN/m^2 (200kg/m²)

Independent - 1no. Lift - 1kN/m^2 (100kg/m²)

All inside decks at - 0.75kN/m^2 (75kg/m²)

Bolt on Stair Tower - 1.5kN/m^2 (150kg/m²)

Mansard Access Scaffold Phase One - 1.5kN/m^2 (150kg/m²)

Mansard Access Scaffold Phase Two - 0.75kN/m^2 (75kg/m²)

THESE LOADING MUST NOT BE EXCEEDED

All Loadings Unfactored

No alterations which may affect the scaffolds structural stability to be made without prior written notice from BDS Ltd

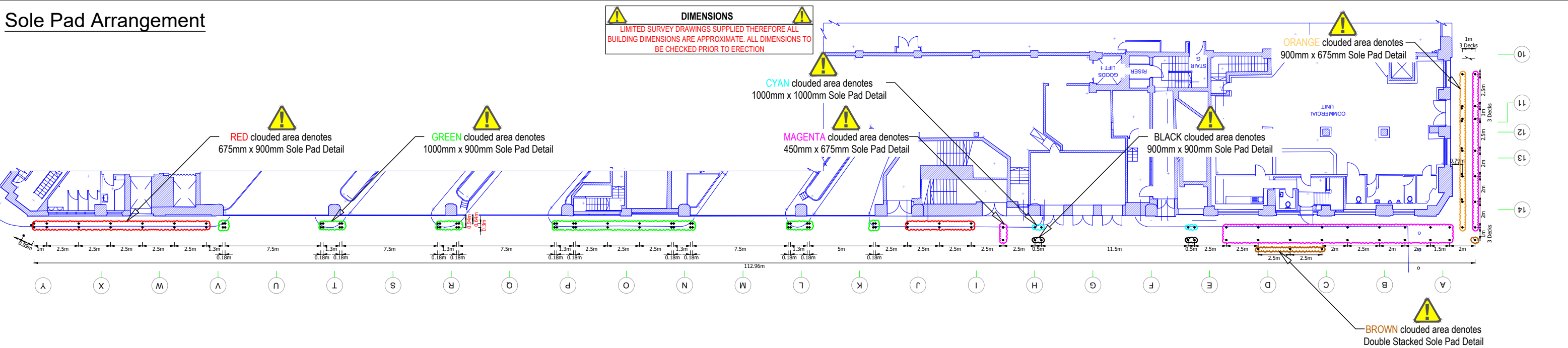
Construction Issue

Project: Rylands Building, Manchester

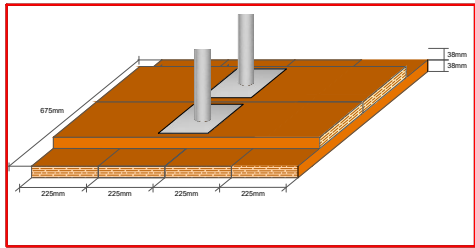
Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place	
Drawn by: Adam McCann	Calculations by: J Hollingworth
Signed:	Draft: 20/10/2023
	Approval: 10/11/2023
Checked by: Mike Brown	Construction: 23/11/2023
Signed:	Date: 23/11/2023

Drawing No.	Revision
BDS-10313-05	B
A Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval	10/11/2023
B Drawing Issued For Construction	23/11/2023
C N/A	N/A
D N/A	N/A
E N/A	N/A

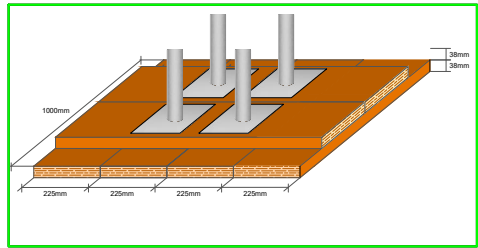
Sole Pad Arrangement



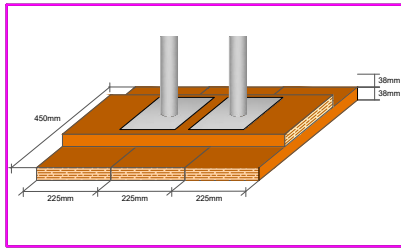
675mm x 900mm Sole Pad Detail
(RED Clouded Area)



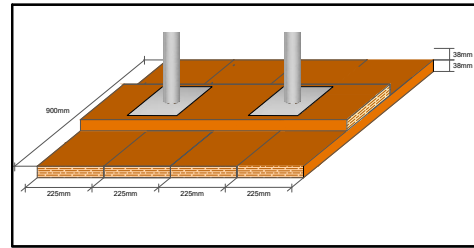
1000mm x 900mm Sole Pad Detail
(GREEN Clouded Area)



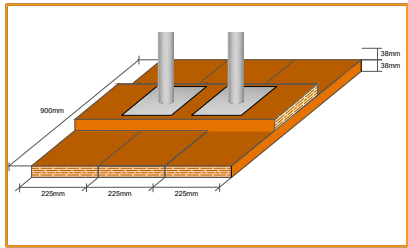
450mm x 675mm Sole Pad Detail
(MAGENTA Clouded Area)



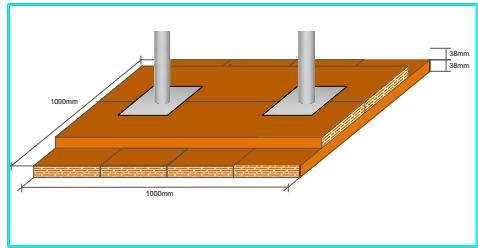
900mm x 900mm Sole Pad Detail
(Black Clouded Area)



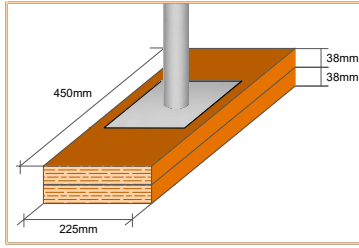
900mm x 675mm Sole Pad Detail
(ORANGE Clouded Area)



1000mm x 1000mm Sole Pad Detail
(CYAN Clouded Area)



Double Stacked Sole Pad Detail



Fundamental Notes

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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

Doorways to be kept clear at all times

RISK ADEQUATE TRAFFIC MANAGEMENT MUST BE IN PLACE WHERE SCAFFOLD STRUCTURE CAUSES A RISK FOR MOVING PLANT
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

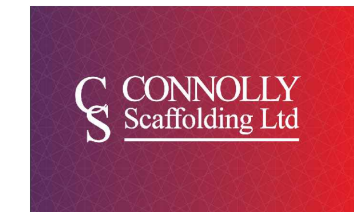
RISK Exact construction of roof unknown. The principal contractor must confirm structure is capable of supporting all imposed loads
RISK Scaffold contractor to include in their RAMS identification of skylight risks & eliminate
RISK Scaffold contractor to include in their RAMS safe system of working on the roof

RISK Scaffold operatives must have a safe system of work in place when working on beams to ensure they are clipped on at all times
RISK Principal contractor to confirm ground is capable of supporting imposed loads
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
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
SYSTEM STAIR TOWER ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT

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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 8.42kN = 16.84kN If the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x 8.42kN = 10.53kN '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)

Client:



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All inside decks at - 0.75kN/m² (75kg/m²)
Bolt on Stair Tower - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase One - 1.5kN/m² (150kg/m²)
Mansard Access Scaffold Phase Two - 0.75kN/m² (75kg/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: Rylands Building, Manchester

Drawing Title: External Independent Access Scaffold with Stair Access Scaffold to Bridgewater Place

Drawn by: Adam McCann	Calculations by: J Hollingworth	Draft: 20/10/2023
Signed:	Signed:	Approval: 10/11/2023
Checked by: Mike Brown		Construction: 23/11/2023
Signed:		Date: 23/11/2023

Drawing No.

BDS-10313-06

A	Beam Span Introduced, Catch Fan Amended & Drawing Issued For Approval	10/11/2023
B	Drawing Issued For Construction	23/11/2023
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Revision

B

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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

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Drawing not to scale
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