

Plan A-A

Boarding and intermediate transoms omitted for clarity

TVCB to be supplied,
managed & fitted by others

Canopy glass panels to be
removed by principal contractor
prior to scaffold erection

Windows either side of steel
columns to be removed by
principal contractor to allow box
ties to be fitted

Temporary security alarm
to be supplied, managed &
fitted by others

Raised floor panels to rear
elevation to be removed by
principal contractor prior to
scaffold erection

Internal fall risk to open edges
to be controlled & managed by
principal contractor

Blow up Detail #1

Band & plate shear tie required
at every set of standards

Ledger brace every
row of standards

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

TG4:19 (SHEAR TIE TESTING REQUIREMENTS)

- Preliminary Load Test - This anchor to 2 x 6.61kN = 13.22kN If the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x 6.61kN = 8.26kN 'pull out'.
- Should the test load fall below the above figures, then the tying configuration to be re-evaluated.

Shear Tie Connection
Detail

All connections to be made
with load bearing couplers

RISK

Please Refer To Page BDS-10984-05 For
Highlighted Risks & Hazards

Legend

- Tube
- Debris Netting
- Shrink Wrap
- Spur/Pull Back Raker
- Bracing
- Standard
- Puncheon
- Shear Tie
- 12mm Excalibur EYB Eyebolt (or similar)
- Box Tie
- Lip Tie
- Contact Point
- Check Coupler

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:

- 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.

MAXIMUM LOADINGS

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

Roof Canopy - 1no. Lift - 1kN/m² (100kg/m²)

All inside boards at - 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

Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing

Approval Only

Client:



BDS SCAFFOLD DESIGN SPECIALISTS

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

Project: 117 - 119 Portland St, Manchester

Drawing Title: External Independent Access Scaffold

Drawn by: Adam McCann Draft: 14/03/2024

Signed: Approval: 25/03/2024

Construction: TBC

Calculations by: J Hollingworth

Signed: Approval: 25/03/2024

Construction: TBC

Checked by: Mike Brown Draft: 14/03/2024

Signed: Approval: 25/03/2024

Construction: TBC

Drawing No. BDS-10984-01

Revision A

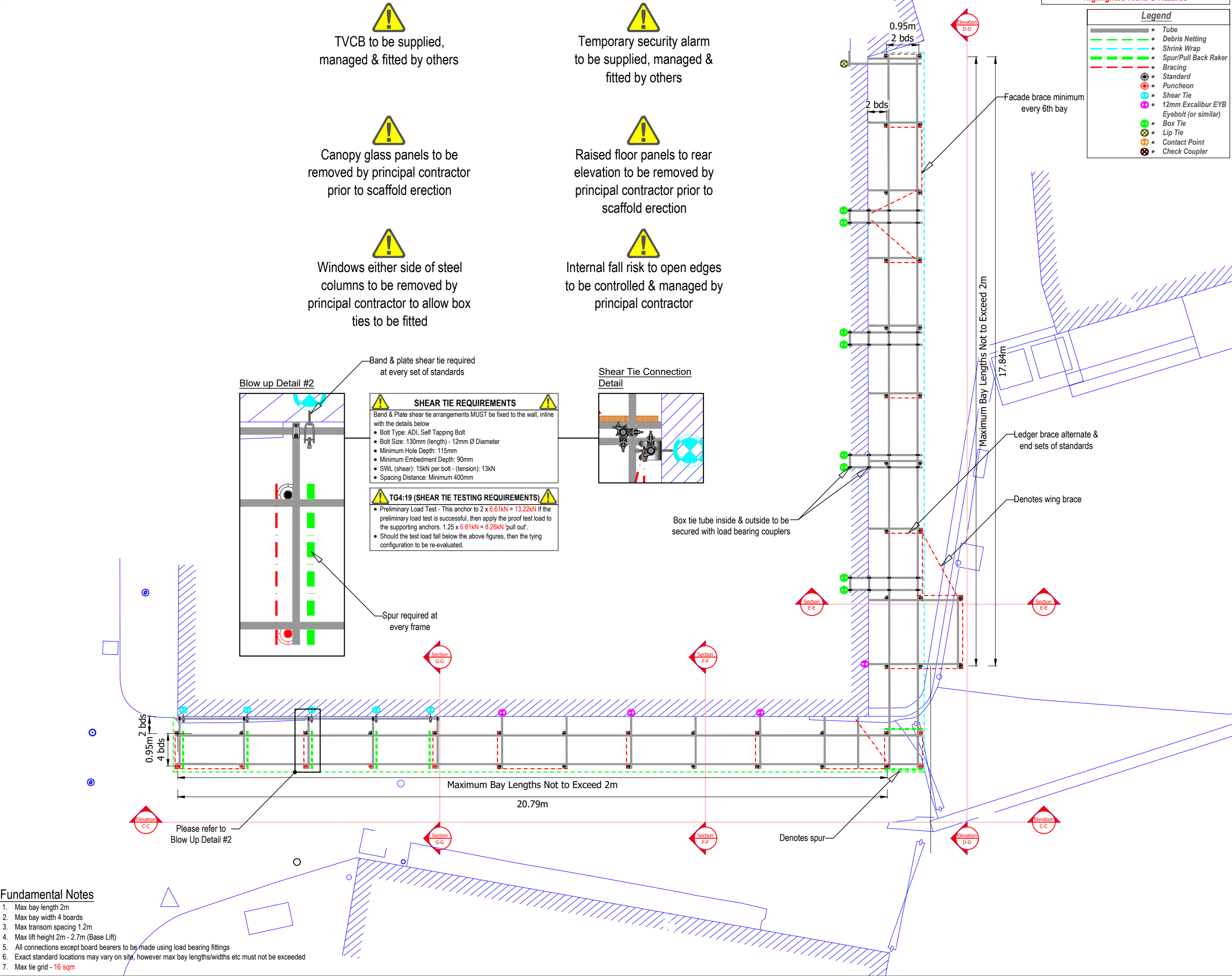
Revisions:		
A	Drawing Issued For Approval	25/03/2024
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Fundamental Notes

- Max bay length 2m
- Max bay width 4 boards
- Max transom spacing 1.2m
- Max lift height 2m - 2.7m (Base Lift)
- 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 - 16 sqm

Plan B-B

Boarding and intermediate transoms omitted for clarity



Fundamental Notes

1. Max bay length 2m
2. Max bay width 4 boards
3. Max transom spacing 1.2m
4. Max lift height 2m - 2.7m (Base Lift)
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 - 16 sqm

RISK
Please Refer To Page BDS-10984-05 For Highlighted Risks & Hazards

Legend	
	Tube
	Debris Netting
	Shrink Wrap
	Spur/Pull Back Raker
	Bracing
	Standard
	Puncheon
	Shear Tie
	12mm Excalibur EYB Eyebolt (or similar)
	Box Tie
	Lip Tie
	Contact Point
	Check Coupler

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MAXIMUM LOADINGS

Independent - 1no. Lift - **2kN/m² (200kg/m²)**
Roof Canopy - 1no. Lift - **1kN/m² (100kg/m²)**
All inside boards at - **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

Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing



Client:



BDS
SCAFFOLD DESIGN SPECIALISTS

Project: 117 - 119 Portland St, Manchester
Drawing Title: External Independent Access Scaffold

Drawn by: Adam McCann Draft: 14/03/2024
Signed: Approval: 25/03/2024
Construction: TBC

Calculations by: J Hollingworth
Signed: Approval: 25/03/2024
Construction: TBC

Checked by: Mike Brown Draft: 14/03/2024
Signed: Approval: 25/03/2024
Construction: TBC

Drawing No.	Revision
BDS-10984-02	A

Revisions:		
A	Drawing Issued For Approval	25/03/2024
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Elevation C-C

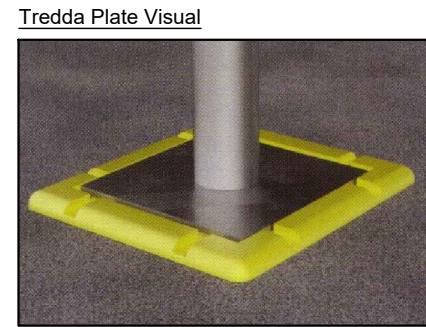
⚠️ SHEAR TIE REQUIREMENTS ⚠️

Band & Plate shear tie arrangements MUST be fixed to the wall, inline with the details below

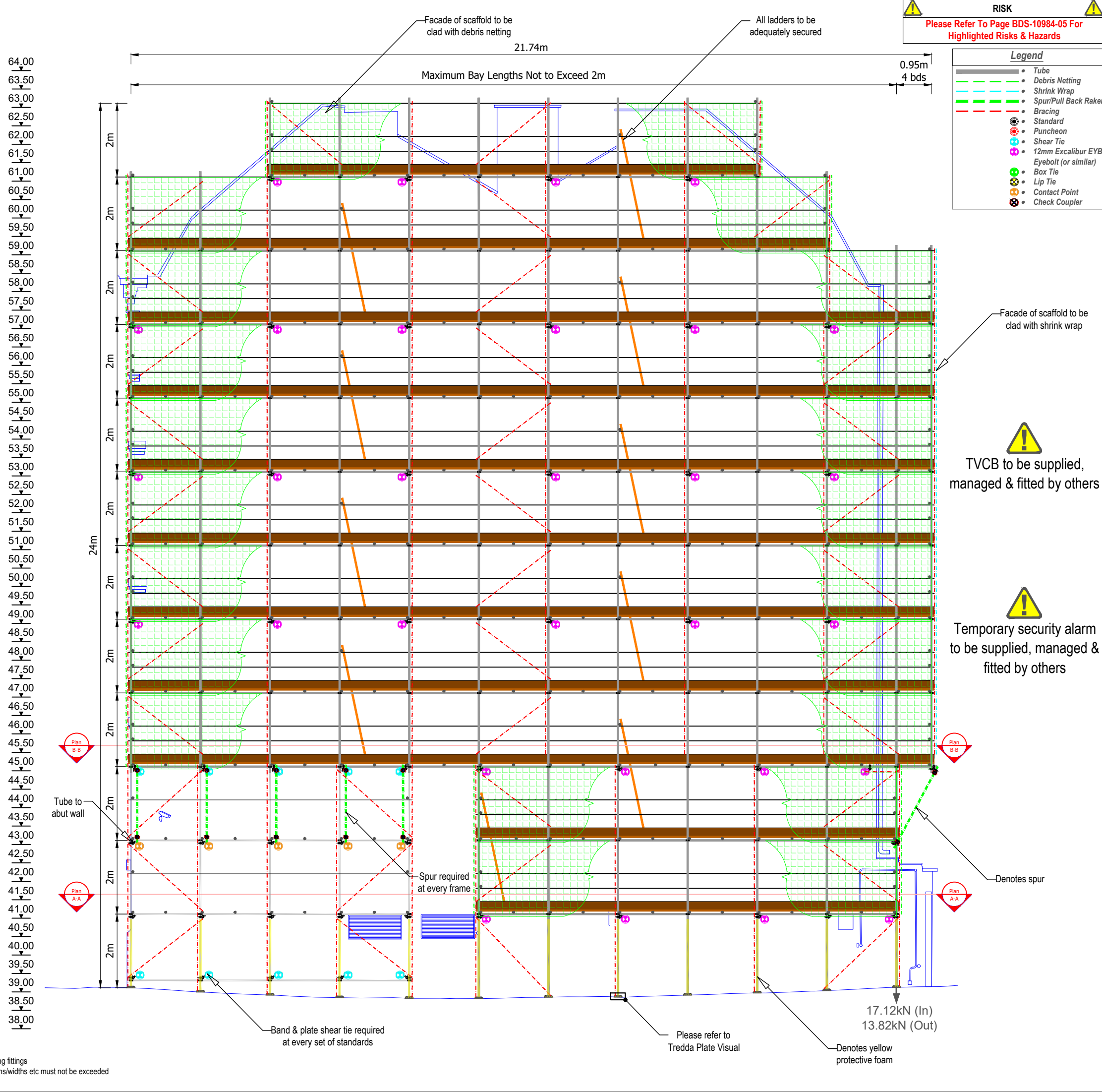
- Bolt Type: ADI, Self Tapping Bolt
- Bolt Size: 130mm (length) - 12mm Ø Diameter
- Minimum Hole Depth: 115mm
- Minimum Embedment Depth: 90mm
- SWL (shear): 15kN per bolt - (tension): 13kN
- Spacing Distance: Minimum 400mm

⚠️ TG4:19 (SHEAR TIE TESTING REQUIREMENTS) ⚠️

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- Fundamental Notes
1. Max bay length 2m
 2. Max bay width 4 boards
 3. Max transom spacing 1.2m
 4. Max lift height 2m - 2.7m (Base Lift)
 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 - 16 sqm



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MAXIMUM LOADINGS

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

Roof Canopy - 1no. Lift - **1kN/m² (100kg/m²)**

All inside boards at - **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

⚠️ Please print all drawings in colour A3 min

Drawing not to scale
dimensions as per drawing

Approval Only

Client:

HORIZON SCAFFOLDING

BDS SCAFFOLD DESIGN SPECIALISTS

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

Project: 117 - 119 Portland St, Manchester

Drawing Title: External Independent Access Scaffold

Drawn by: Adam McCann Draft: 14/03/2024

Signed: [Signature] Approval: 25/03/2024 Construction: TBC

Calculations by: J Hollingworth

Signed: [Signature] Approval: 25/03/2024 Construction: TBC

Checked by: Mike Brown Draft: 14/03/2024

Signed: [Signature] Approval: 25/03/2024 Construction: TBC

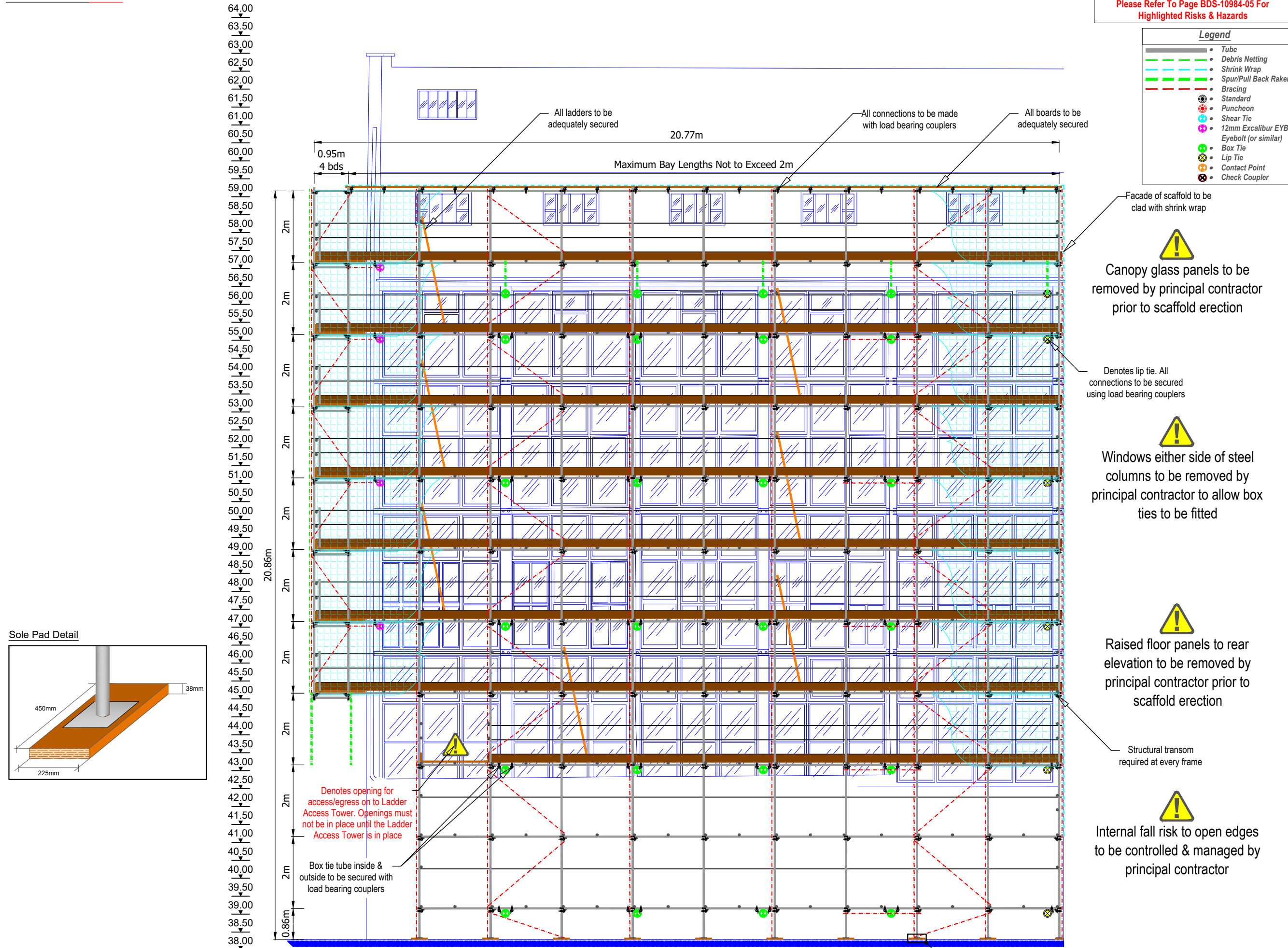
Drawing No. **BDS-10984-03** Revision **A**

Drawing Scale: N/A

Revisions:

Revision	Description	Date
A	Drawing Issued For Approval	25/03/2024
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Elevation D-D



Fundamental Notes

1. Max bay length 2m
2. Max bay width 4 boards
3. Max transom spacing 1.2m
4. Max lift height 2m - 2.7m (Base Lift)
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 - 16 sqm

RISK

Please Refer To Page BDS-10984-05 For Highlighted Risks & Hazards

Legend

- Tube
- Debris Netting
- Shrink Wrap
- Spur/Pull Back Raker
- Bracing
- Standard
- Puncheon
- Shear Tie
- 12mm Excalibur EYB Eyebolt (or similar)
- Box Tie
- Lip Tie
- Contact Point
- Check Coupler

Facade of scaffold to be clad with shrink wrap

Canopy glass panels to be removed by principal contractor prior to scaffold erection

Denotes lip tie. All connections to be secured using load bearing couplers

Windows either side of steel columns to be removed by principal contractor to allow box ties to be fitted

Raised floor panels to rear elevation to be removed by principal contractor prior to scaffold erection

Structural transom required at every frame

Internal fall risk to open edges to be controlled & managed by principal contractor

Please refer to Sole Pad Detail

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Roof Canopy - 1no. Lift - **1kN/m² (100kg/m²)**

All inside boards at - **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

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Drawing not to scale

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Approval Only

Client:

HORIZON SCAFFOLDING

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Drawing Title: External Independent Access Scaffold

Drawn by: Adam McCann Draft: 14/03/2024

Signed: Approval: 25/03/2024 Construction: TBC

Calculations by: J Hollingworth

Signed: Approval: 25/03/2024 Construction: TBC

Checked by: Mike Brown Draft: 14/03/2024

Signed: Approval: 25/03/2024 Construction: TBC

Drawing No. BDS-10984-04 Revision A

Drawing Scale: N/A

Revisions:

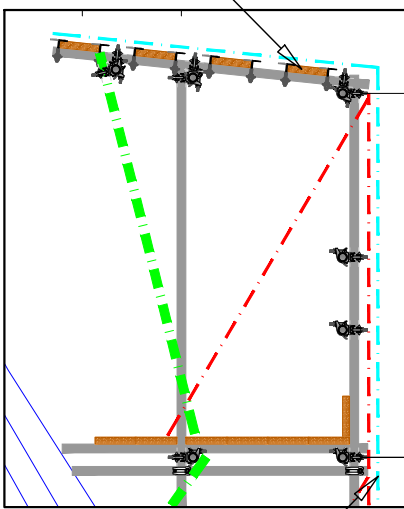
Revision	Description	Date
A	Drawing Issued For Approval	25/03/2024
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

Section E-E

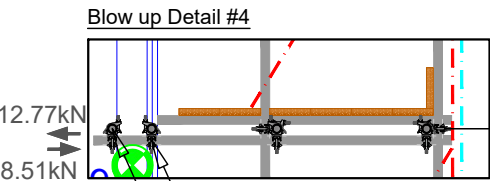
⚠ Ladder access omitted for clarity

⚠
Windows either side of steel columns to be removed by principal contractor to allow box ties to be fitted

All boards to be adequately secured
Blow up Detail #3



Facade of scaffold to be clad with shrink wrap



Box tie tube inside & outside to be secured with load bearing couplers
Adequate protection may be required around box tie tube

⚠
Raised floor panels to rear elevation to be removed by principal contractor prior to scaffold erection

Fundamental Notes

1. Max bay length 2m
2. Max bay width 4 boards
3. Max transom spacing 1.2m
4. Max lift height 2m - 2.7m (Base Lift)
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 - 16 sqm

Section F-F

⚠ Ladder access omitted for clarity

⚠
Internal fall risk to open edges to be controlled & managed by principal contractor

