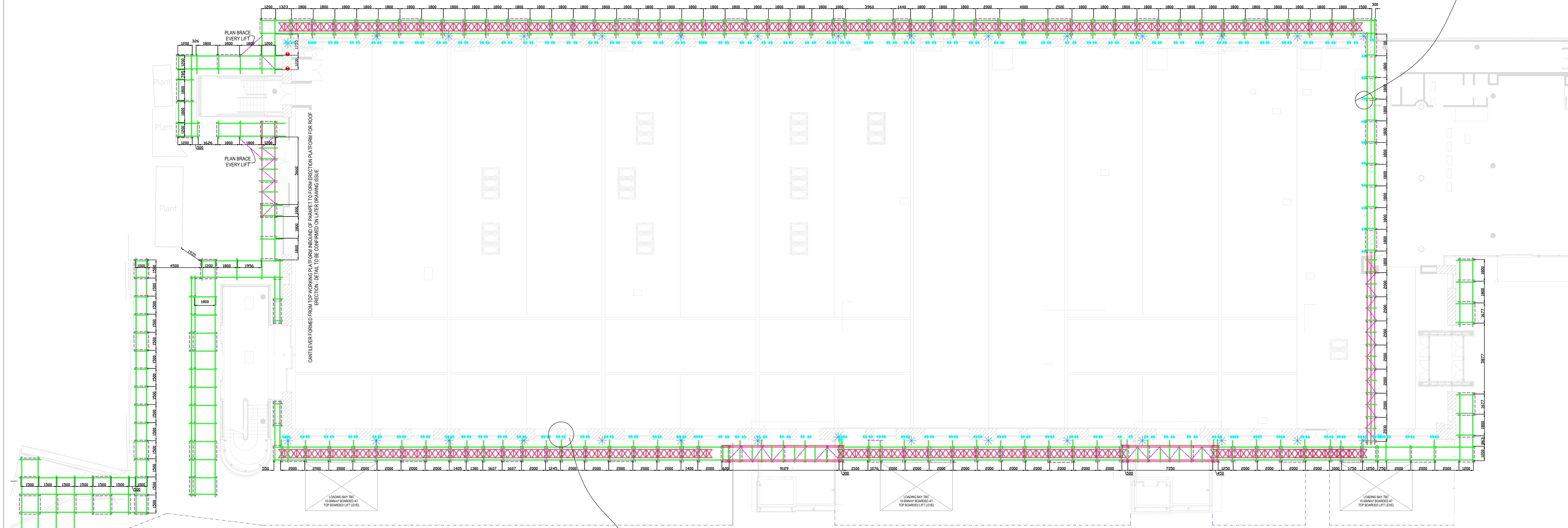
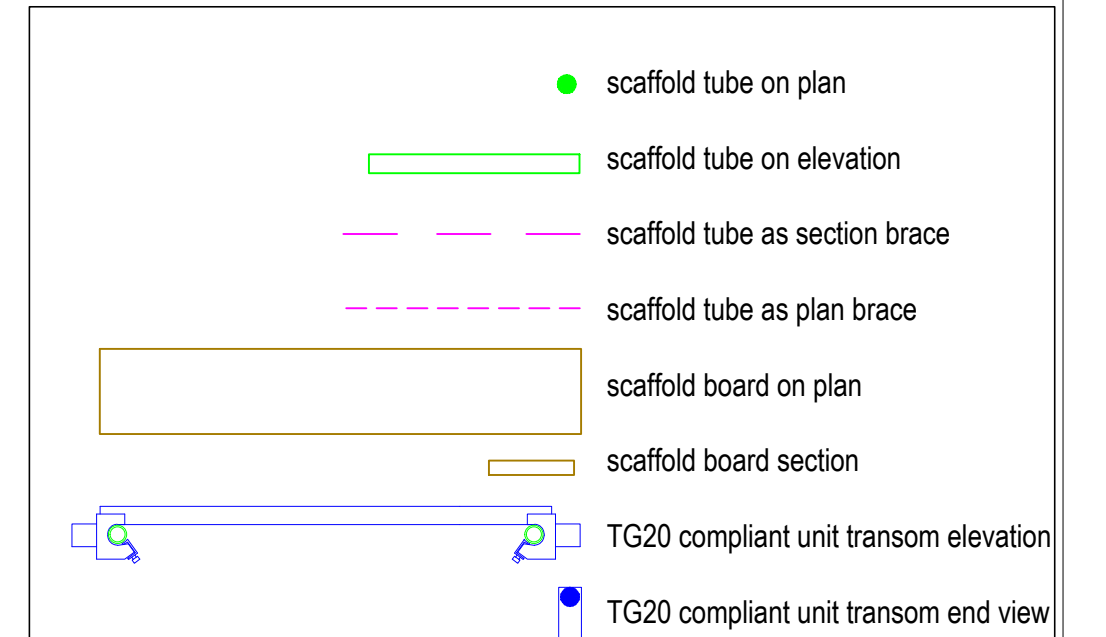
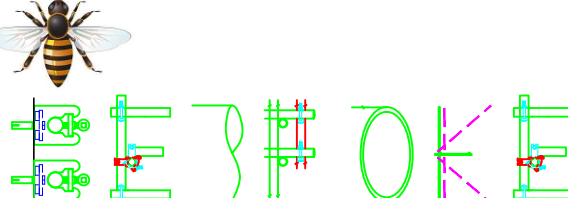


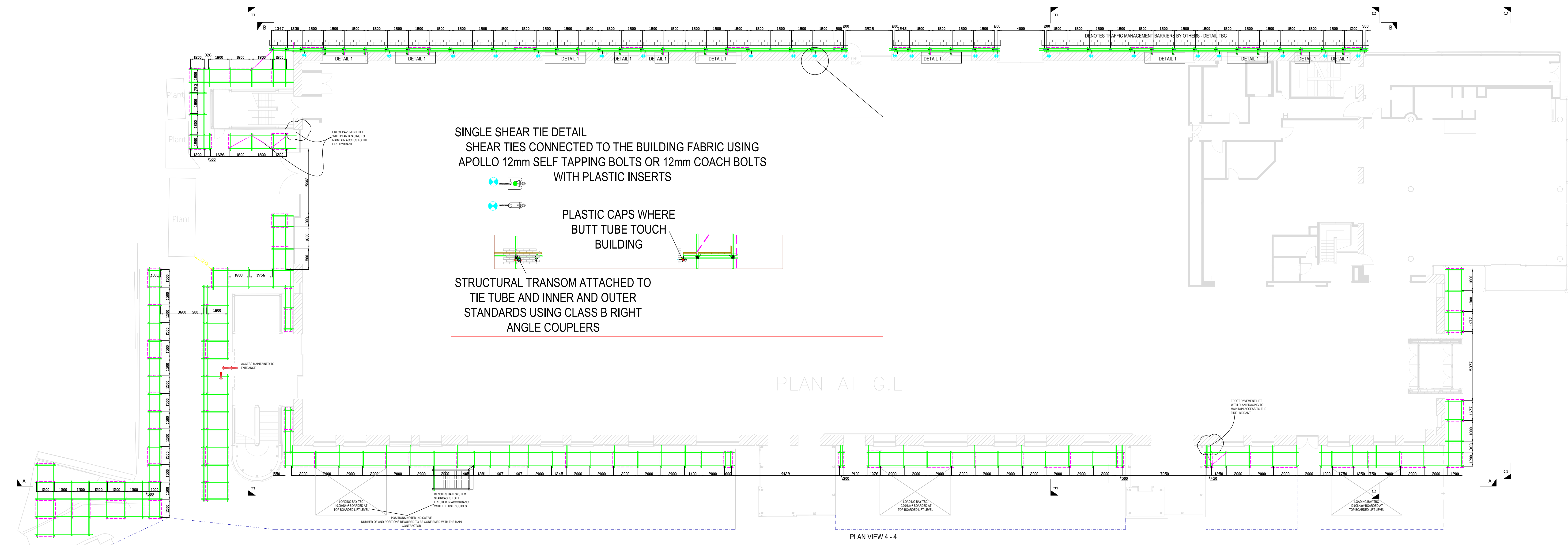
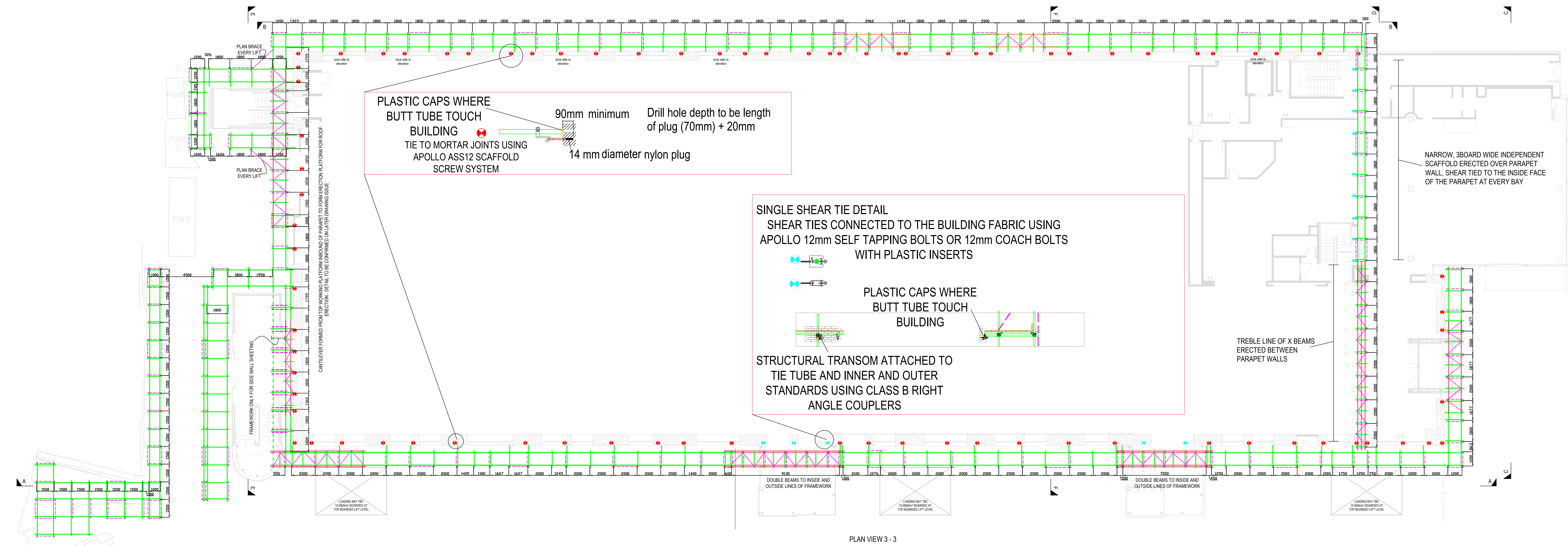


STRUCTURAL



PICTURAL

P03	4.3.24	Tie Key Added	PB. OUT
P02	27.2.24	Updated to Discussions Approval Issue	PB. OUT
P01	5.1.24	Preliminary Issue for Comment	PB. OUT
Rev	Date	Description	Checked
			Drawn
			
SCAFFOLD DESIGN LTD © 2023			
7, Penrhyn Beach East Penrhyn Bay Llandudno LL53 3NT			
		Tel: 07545 295 503 Mail: oliver@bespokecaffolddesign.co.uk	
Job Title	3D Scaffolding Ltd - Museum of Science and Industry Manchester - New Warehouse Project.		
Drawing Title	Perimeter Access Scaffold and Temporary Roof Scheme.		
Scaffolding Contractor to arrange to print drawings as correct paper size as indicated.			
Scale	1:150 @ A0		Drawing Number
	5.1.2024		
Drawn	Checked By	24-BSD-944-01-01- Plan Views Sheet	
OUT			

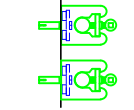


APPROVAL DRAWING

SUBJECT TO APPROVAL

LEGEND

- scaffold tube on plan
- scaffold tube on elevation
- - - scaffold tube as section brace
- - - scaffold tube as plan brace
- scaffold board on plan
- scaffold board section
- TG20 compliant unit transom elevation
- TG20 compliant unit transom end view

P03	4.3.24	Tie Key Added	PB.	OJT
P02	27.2.24	Updated to Discussions Approval Issue	PB	OJT
P01	5.1.24	Preliminary Issue for Comment	PB.	OJT
Rev	Date	Description	Checked	Drawn
BEEBOK SCAFFOLD DESIGN LTD CC BY-NC-ND © 2023				
7, Penryn Bay East Penryn Beach East Llandudno LL30 3NT				
Job Title			Tel: 07545 295 503 Mail: oliver@bespokescaffoldingdesign.co.uk	
3D Scaffolding Ltd - Museum of Science and Industry Manchester - New Warehouse Project.				
Drawing Title				
Perimeter Access Scaffold and Temporary Roof Scheme.				
Scaffold Contractor to arrange to print drawings on correct paper size as indicated.				
Scale	Date		Drawing Number	
1:150 @ A0	5.1.2024			
Drawn	Checked By		24-BSD-944-01-02 - Plan Views	
OUT	PB		Sheet 2 of 4.	



STRUCTURAL
MEMBER

→ 11.75kN 4No Bolts
Tensile = 2.94kN
per Bolt

Preliminary Test to 6.00kN
Proof Test to 3.75kN

UTT TUBE
BUILDING



PICTURAL T



LEGEND

PR	
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Mail: oliver@bespokescaffolddesign.co.uk

ce and Industry Manchester -

Library Roof Scheme.

on correct paper size as indicated.

ing Number	
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-BSD-944-01-03 - Elevation Views

Sheet 3 of 4.

THE OVERALL SCHEME IS COMPRISED OF THE FOLLOWING DRAWING LIST AND ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EACH OTHER AT ALL TIMES
24-BSO-944-01-01 - PLAN VIEWS SHEET 1 OF 4
24-BSO-944-01-02 - PLAN VIEWS SHEET 2 OF 4
24-BSO-944-01-03 - ELEVATION VIEWS SHEET 3 OF 4
24-BSO-944-01-04 - SECTION & ELEVATION VIEWS AND NOTES SHEET 4 OF 4

This drawing is confidential and all the copyright therein are the property of Bespoke Scaffold Design Ltd.
This drawing is issued on the conditions that:-
1) It must not be used except under a contract with Bespoke Scaffold Design Ltd relating to the job in connection with which the drawing was issued.
2) It must not be copied or exhibited without the written permission of Bespoke Scaffold Design Ltd.

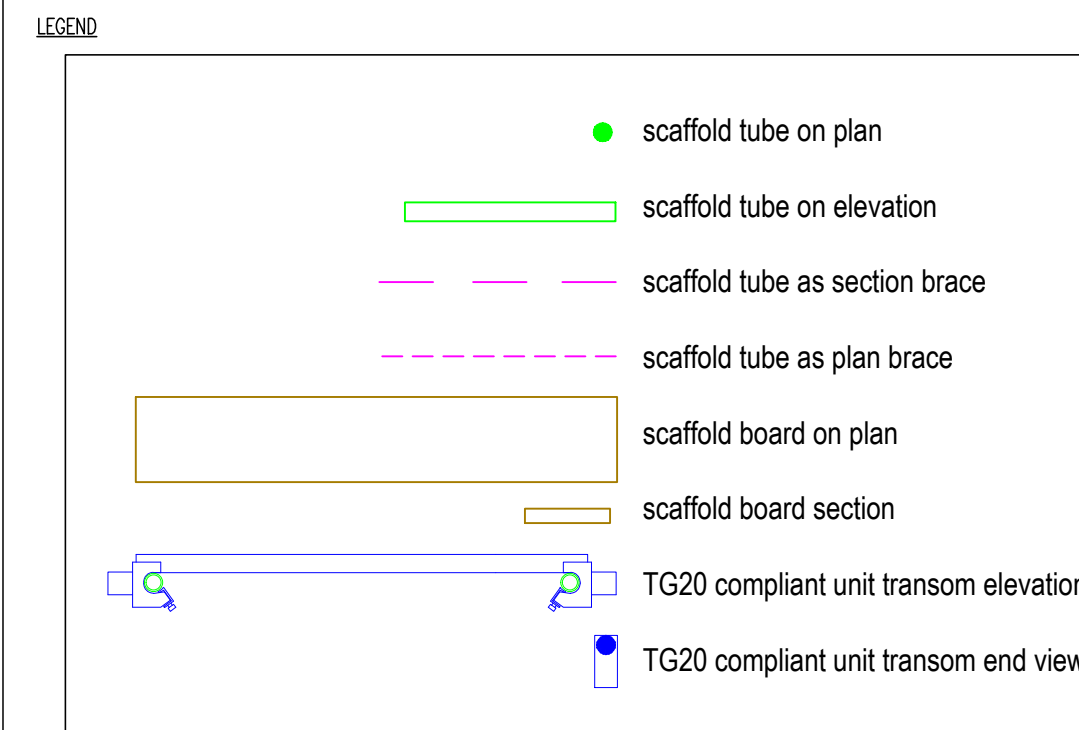
GENERAL NOTES
1. The plotting of an order based on a scheme submitted by Bespoke Scaffold Design Ltd is deemed to imply that the client is satisfied that the technical content of the scheme is in accordance with his requirements. The client is to check that his requirements have been correctly interpreted before erection commences.
2. When indicated, this is not a working drawing and is to be used for quotation or discussion purposes only.
3. When indicated, this is a working drawing and is for construction purposes. No deviation is permitted without written approval from Bespoke Scaffold Design Ltd.
4. This drawing is to be read in conjunction with the following Bespoke Scaffold Design Ltd documents:-
Calculation Document Referencing Specific Drawing Number as Below.
5. Bespoke Scaffold Design Ltd Scheme has been prepared from the following information:-
6. Where a temporary structure, designed by Bespoke Scaffold Design Ltd, imposes loads on a permanent structure, the client must ensure that the permanent structure is of adequate strength to resist such forces.
7. The client is to provide adequate foundations to support the loads imposed by Bespoke Scaffold Design Ltd structure without adverse settlement or deflection.
8. Maximum force per standard = 20.00kN
9. The Main Contractor is to assist the Scaffolding Contractor with, and agree, the setting out of Bespoke Scaffold Design Ltd's temporary structure before erection commences.
10. The client is to ensure that no modifications are made to Bespoke Scaffold Design Ltd's structure without the written approval of Bespoke Scaffold Design Ltd.
11. No welding, shoring or any other load not specified is to be applied to Bespoke Scaffold Design Ltd's structure.
12. No sheeting, fabric setting or any other materials shall be fixed to a structure provided by Bespoke Scaffold Design Ltd unless approved and noted by Bespoke Scaffold Design Ltd.

TIME
1. Client is to permit the scaffolding contractor scaffold to be tied to the permanent structure in accordance with BS 12011 or as indicated on this drawing.
2. Client is to ensure that no ties are removed without the approval of the scaffolding contractor.
3. All ties are to be fixed with load bearing couplers, preferably right angle couplers.
4. Where properly secured are specified, it is assumed that the permanent structure is of suitable condition to provide the required resistance of (one way) tied per anchor. Should this prove not to be the case, then an alternative must be found and may be charged for.
5. Where properly secured are used, client is to carry out making good.
6. Ties are indicated thus: on elevation and on section and plan.

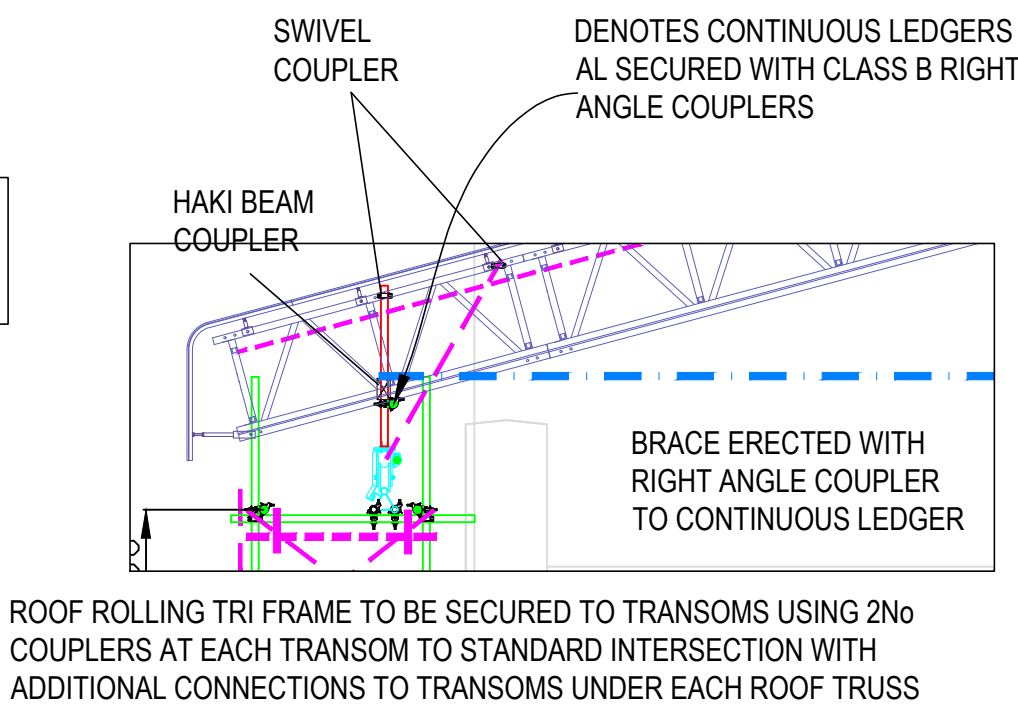
DESIGN LOADS
This scaffold has been designed for the following:-
Load Classification Table 2.10 TG2021 - Load Class 3. Maximum number of working platforms 2kN
Maximum UDL Main Platform: 2.00 kN/m²
Maximum UDL Second Platform: 1.00 kN/m²
Maximum UDL Inside Boards: 0.75 kN/m²
Total number of loaded lifts = As Shown
The contractor must ensure that the loads allowed for are sufficient for the work being undertaken.

BASES OF DESIGN
This scaffold has been designed in accordance with the following:-
NASC TSO Latest Edition
BS 5975:2019 Code of Practice for Temporary Works Procedures & The Permissible Stress Design of Framework
BS EN 1991-1-3:2003+A1:2010 Snow Loads
BS EN 1991-1-4:2003+A1:2010 Wind Actions
MATERIALS
Scaffold Tube as Type 4 Steel Tube to BS EN 39201 or BS 1139-1-1 (as per condition)
Load Bearing Scaffold Fittings to comply with BS EN 742000 Class 4 as a minimum (unless otherwise stated)
Scaffold Boards to BS 2482:2009 (28mm depth x 225mm width)

APPROVAL DRAWING
SUBJECT TO APPROVAL



GENERAL NOTE
DUE TO THE NATURE OF THE TEMPORARY ROOF IT CANNOT BE GUARANTEED TO BE 100% WATERTIGHT



ALL STANDARDS TO BE THE VAN THEIL MANUAL TUBE LOCK SYSTEM
LOCKED TOGETHER AS PER USER GUIDE

ALL BRACES TO BE ERECTED WITH CLASS B RIGHT ANGLE COUPLERS WITH CHECK COUPLERS EITHER SIDE

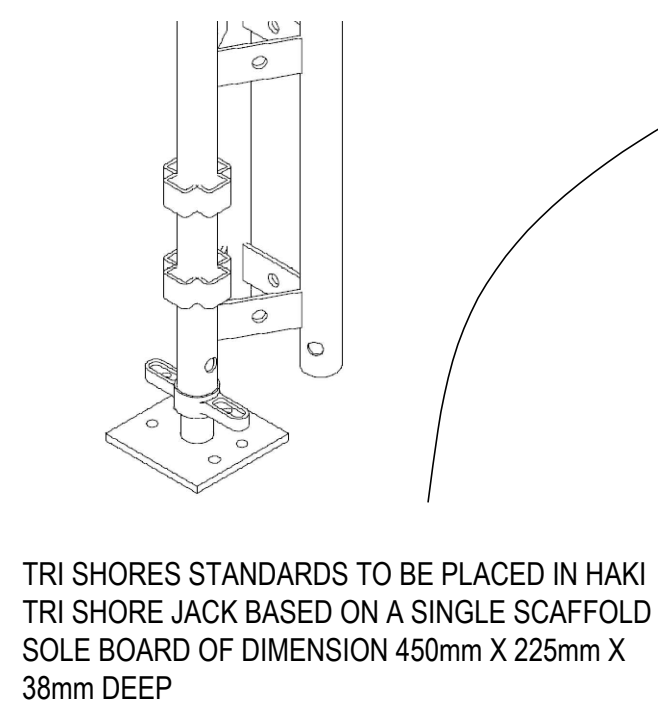
REFER TO TIE DETAIL

APOLLO X BEAM CONNECTED TO THE UNDERSIDE OF THE STRUCTURAL TRANSOM USING RIGHT ANGLED COUPLERS

TRANSOM BOARD SUPPORTS
MAX SPACING 1200mm
MAX OVER HANG 150mm

ANY LIGHTING REQUIREMENT UNDER FAN TO BE ASSESSED AND AGREED BETWEEN MAIN CONTRACTOR AND SCAFFOLD CONTRACTOR

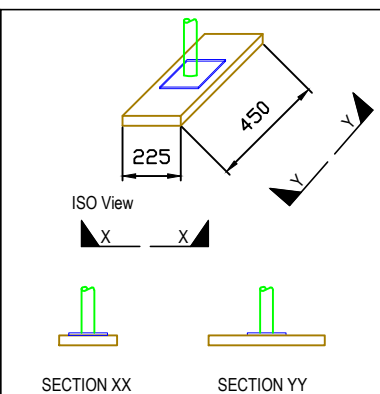
DETAIL 1 - IN AREAS WHERE SHEAR TIE IS NOT ACHIEVABLE
ERECT SUPPORT TO THE UNDERSIDE OF CONCRETE LEDGES



GENERAL NOTE
THE SCAFFOLD IS TO BE CLAD IN MONARFLEX SHEETING
ERECTOR - MAIN INDEPENDENT FULLY ERECTED AND SHEETED PRIOR TO ROOF BEING SHEETED
DISMANTLE - ROOF SHEETS REMOVED BEFORE EXTERNAL SCAFFOLD SHEETING IS REMOVED.

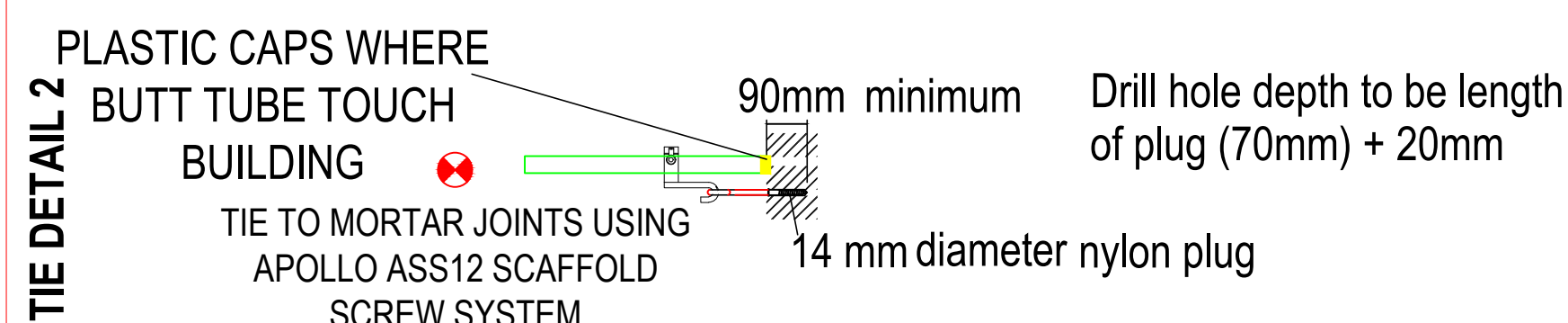
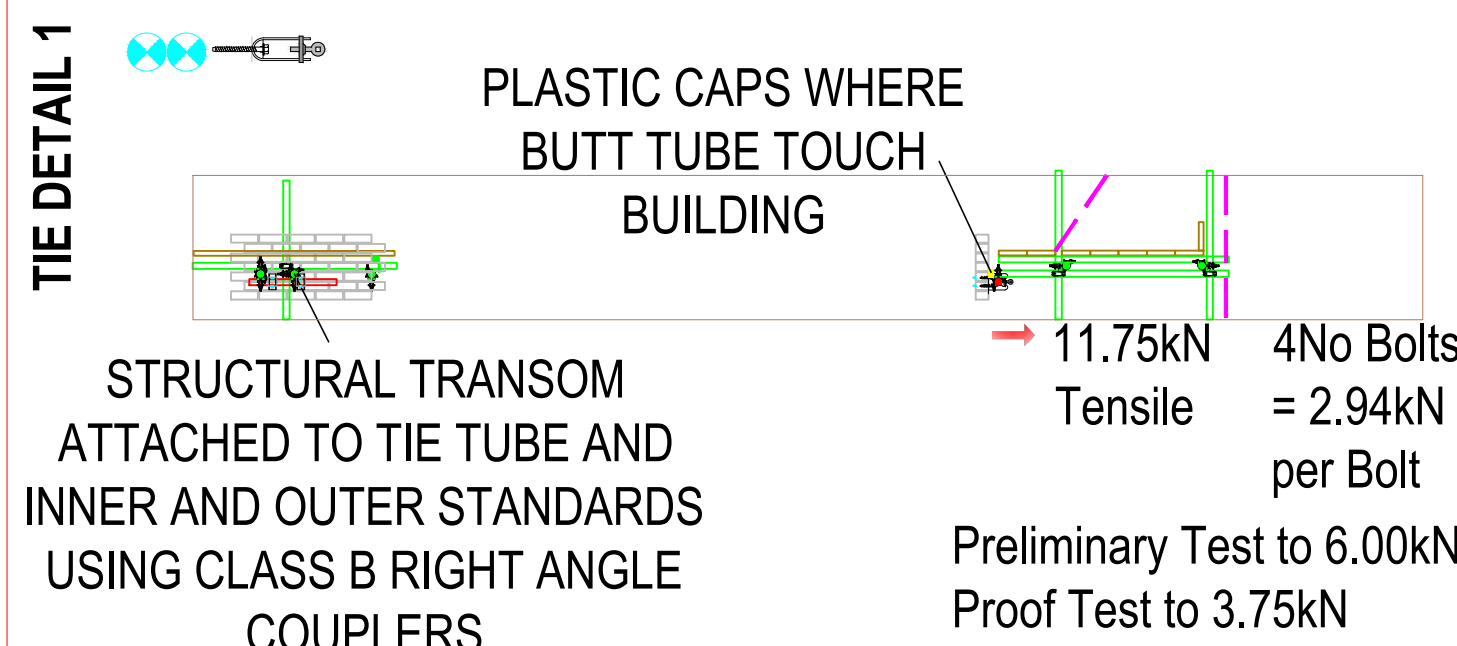
GENERAL NOTE
ALL SCAFFOLDING TO BE ERECTED IN ACCORDANCE WITH SG04-22. THE NASC'S GUIDE TO PREVENTING FALLS IN SCAFFOLDING.
SG04 GUARDRAILS MAY HAVE BEEN OMITTED FROM THIS DRAWING FOR CLARITY HOWEVER THIS DOES NOT GO AGAINST THE RESPONSIBILITY OF THE SCAFFOLDER TO COMPLY WITH THIS GUIDANCE.

FOUNDATION REQUIREMENT - see general note 9
STANDARDS TO BE BASED ON A SINGLE SCAFFOLD SOLE BOARD OF DIMENSION 450mm X 225mm X 38mm DEEP UNDER A 150mm X 150mm EN74-3 BASE PLATE
CONFIRMATION REQUIRED BY CLIENT
THE CLIENT IS TO PROVIDE ADEQUATE FOUNDATIONS TO SUPPORT THE LOADS IMPOSED BY THE SCAFFOLD STRUCTURE WITHOUT ADVERSE SETTLEMENT OR DEFLECTION

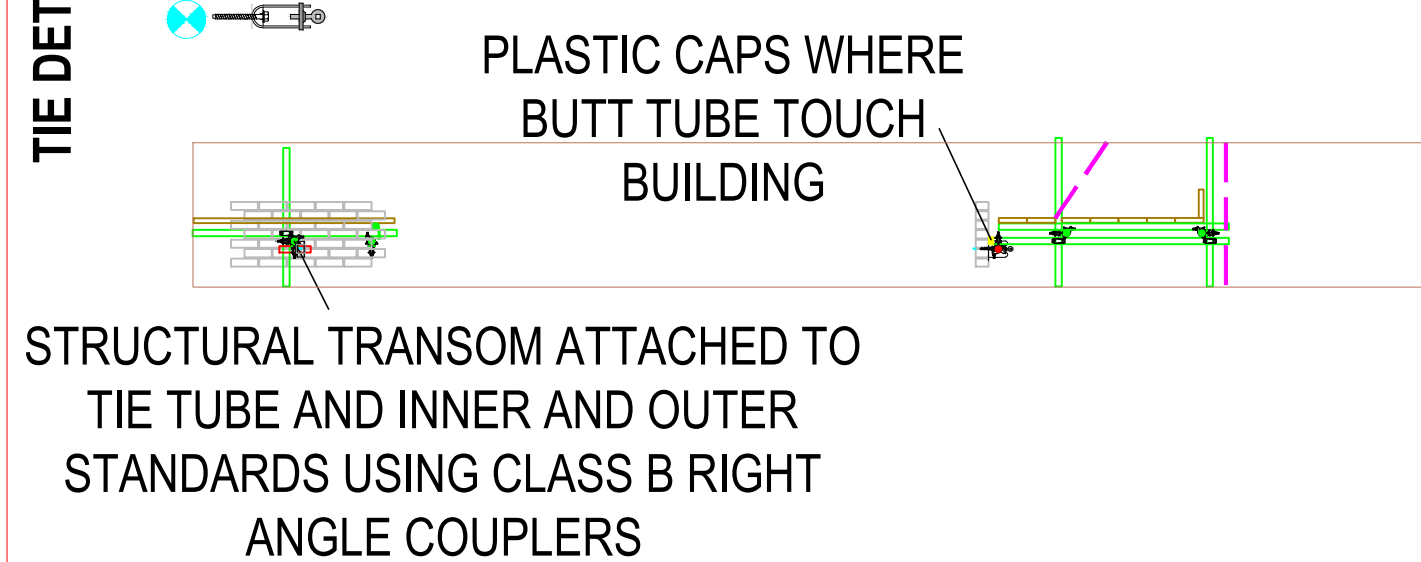


SECTION F - F

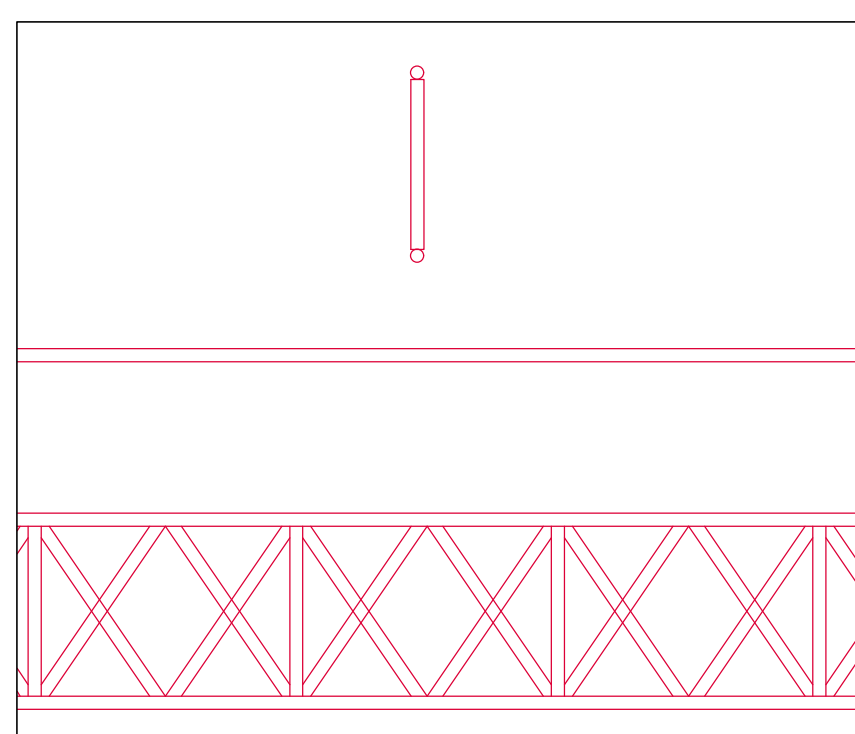
DOUBLE SHEAR TIE DETAIL
SHEAR TIES CONNECTED TO THE BUILDING FABRIC USING APOLLO 12mm SELF TAPPING BOLTS OR 12mm COACH BOLTS WITH PLASTIC INSERTS



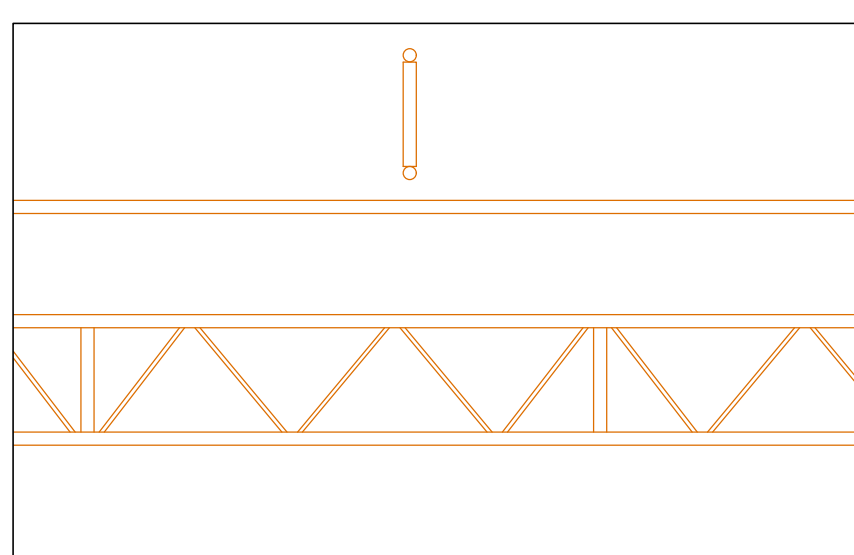
SINGLE SHEAR TIE DETAIL
SHEAR TIES CONNECTED TO THE BUILDING FABRIC USING APOLLO 12mm SELF TAPPING BOLTS OR 12mm COACH BOLTS WITH PLASTIC INSERTS



TEST TIES IN ACCORDANCE WITH TG04-19



AT BRIDGED DETAIL
TOP CHORD LACING TUBE AT MAXIMUM 1.00m c/c
BOTTOM CHORD LACING TUBE AT MAXIMUM 2.00m c/c
PLAN BRACE TOP CHORD USING LOAD BEARING COUPLERS AT MAX 1.00m c/c (to match lacing tube)
SECTION BRACED AT MAX 2.00m c/c (to match every other lacing tube)



AT BRIDGED DETAIL
TOP CHORD LACING TUBE AT MAXIMUM 1.00m c/c
BOTTOM CHORD LACING TUBE AT MAXIMUM 2.00m c/c
PLAN BRACE TOP CHORD USING LOAD BEARING COUPLERS AT MAX 1.00m c/c (to match lacing tube)
SECTION BRACED AT MAX 2.00m c/c (to match every other lacing tube)

P03	4.3.24.	Tie Key Added	PB.	OUT
P02	27.2.24	Updated to Discussions Approval Issue	PB.	OUT
P01	5.1.24	Preliminary Issue for Comment	PB.	OUT.
Rev	Date	Description	Checked	Drawn
 3D SCAFFOLD DESIGN LTD © 2023				
7. Penrhyn Beach East Penrhyn Bay Llandudno LL30 3NT Tel: 07545 295 503 Mail: oliver@bespokescaffolddesign.co.uk				
Job Title 3D Scaffolding Ltd - Museum of Science and Industry Manchester - New Warehouse Project.				
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Scaffold Contractor to arrange to print drawings on correct paper size as indicated.				
Scale 1/75 @ A0	Date 5.1.2024	Drawing Number 24-BSD-944-01-04 Section Views & Notes Sheet 4 of 4.		
Drawn OUT	Checked By PB			