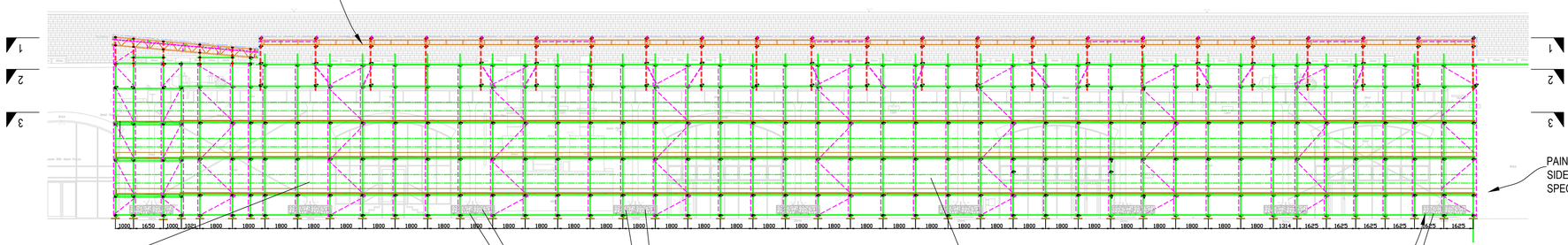
DENOTES HAKI 450 BEAMS HAKI ROOF SYSTEM
ERECTED USING PURLIN FRAMES FOR SECTION BRACING AT 1.00mcrs AND
PLAN BRACED AT 2.00m crs
TO BE ERECTED AS PER THE USER GUIDE FOR THE HAKI ROOF SYSTEM

THIS DRAWING MUST BE READ IN CONJUNCTION WITH DRAWING 19-BSD-337-03-01 AT ALL TIMES



ELEVATION A - A

BRIDAL SCAFFOLD TUBE TO ALL
SIDES OF STEEL COLUMNS
EVERY LIFT

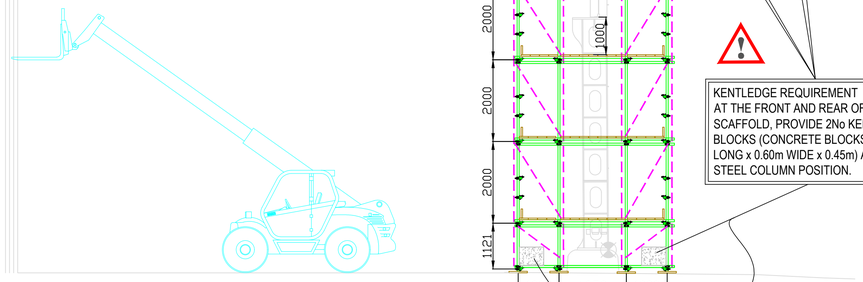
PAINTED PLYBOARD TO
SIDES TO CLIENT
SPECIFICATIONS

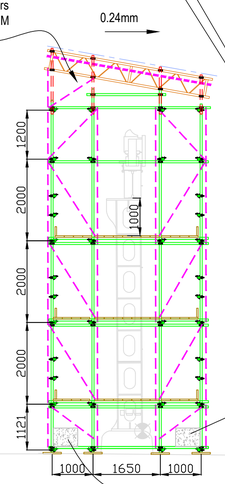
DENOTES HAKI 450 BEAMS HAKI ROOF SYSTEM
ERECTED USING PURLIN FRAMES FOR SECTION BRACING AT 1.00mcrs AND
PLAN BRACED AT 2.00m crs
TO BE ERECTED AS PER THE USER GUIDE FOR THE HAKI ROOF SYSTEM

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

SCAFFOLD MAY BE CLAD IN HOARDING TO
A LEVEL OF 2.40m IN HEIGHT WITH
MONARFLEX SHEETING ERECTED TO THE
SCAFFOLD ABOVE HOARDING LINE

TRANSOMS SUPPORTING KENTLEDGE
TO BE PLACED AT MAX 450mm CRS
IE 3NO PER BLOCK

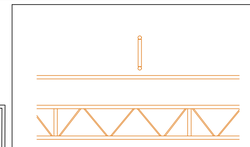




SECTION B - B

KENTLEDGE REQUIREMENT
AT THE FRONT AND REAR OF THE
SCAFFOLD, PROVIDE 2No KENTLEDGE
BLOCKS (CONCRETE BLOCKS 1.20m
LONG x 0.60m WIDE x 0.45m) AT EACH
STEEL COLUMN POSITION.

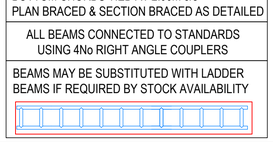
GENERAL NOTE
DUE TO THE NATURE OF THE TEMPORARY ROOF IT CANNOT BE
GUARANTEED TO BE 100% WATERTIGHT



DENOTES ALUMINIUM 450mm LATTICE BEAM
TOP CHORDS TIED AT 1.00m crs
BOTTOM CHORDS TIED AT 2.00m crs
PLAN BRACED & SECTION BRACED AS DETAILED

ALL BEAMS CONNECTED TO STANDARDS
USING 4No RIGHT ANGLE COUPLERS

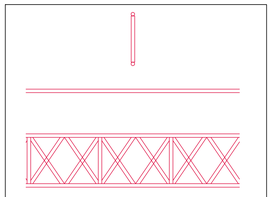
BEAMS MAY BE SUBSTITUTED WITH LADDER
BEAMS IF REQUIRED BY STOCK AVAILABILITY



AT ALL PLATFORM LEVELS THE LEDGERS ARE TO BE ERECTED
USING RIGHT ANGLED COUPLERS ABOVE A STRUCTURAL
TRANSOM AT EACH STANDARD POSITION.

STRUCTURAL TRANSOMS ARE ALSO TO BE ERECTED WITH
RIGHT ANGLE COUPLERS.

IF A BOARDED PLATFORM THEN SINGLE COUPLERS ERECTED
ABOVE THE LEDGERS SECURING THE BOARD SUPPORT
TRANSOMS AT 1.200m crs.



DENOTES ALUMINIUM 750mm "X" TYPE BEAM
TOP CHORDS TIED AT 1.00m crs
BOTTOM CHORDS TIED AT 2.00m crs
PLAN BRACED & SECTION BRACED AS DETAILED

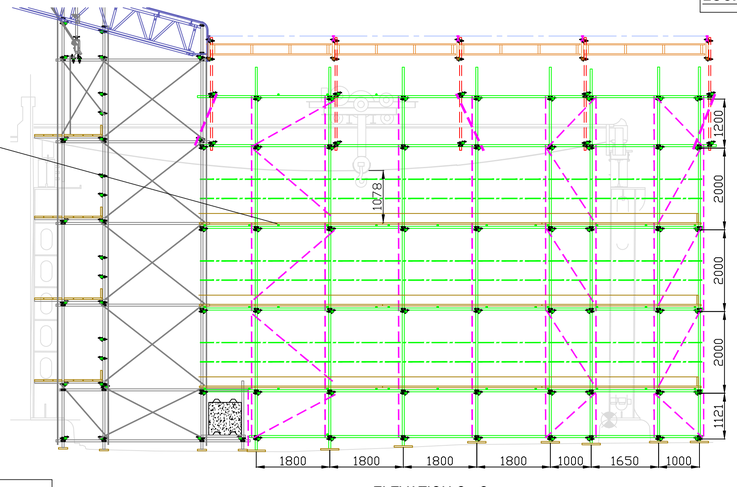
ALL BEAMS CONNECTED TO STANDARDS
USING 4No RIGHT ANGLE COUPLERS

GENERAL NOTE
ALL SCAFFOLDING TO BE ERECTED IN ACCORDANCE WITH SG04:15, THE NASC's
GUIDE TO PREVENTING FALLS IN SCAFFOLDING.

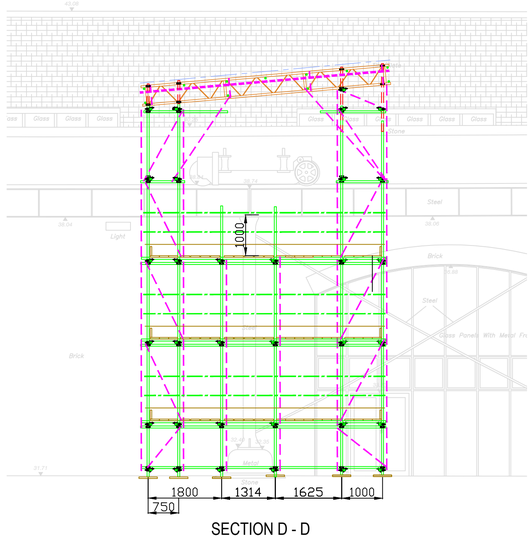
SG04 GUARDRAILS MAY HAVE BEEN OMITTED FROM THIS DRAWING FOR CLARITY
HOWEVER THIS DOES NOT GO AGAINST THE RESPONSIBILITY OF THE SCAFFOLDER
TO COMPLY WITH THIS GUIDANCE.

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

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



ELEVATION C - C



SECTION D - D

FOUNDATION REQUIREMENT - see general note 8
STANDARDS TO BE BASED ON A SINGLE SCAFFOLD
SOLE BOARD OF DIMENSION 450mm X 225mm X 38mm
DEEP

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.

This drawing is confidential and it and 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 placing 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 =10.40 kN
9. The Main Contractor is to 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 wedging , strutting or any other load not specified is to be applied to Bespoke Scaffold Design Ltd's structure.
12. No sheeting, debris netting 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

TYING
1. Client is to permit the scaffolding contractors scaffold to be tied to the permanent structure in accordance with BS 12811 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 propriety anchors are specified , it is assumed that the permanent structure is of suitable condition to provide the required restraint of 1.5kN per anchor. Should this prove not to be the case, then an alternative must be found and may be charged for.
5. Where propriety anchors are used, client is to carry out making good.

DESIGN LOADS
This scaffold has been designed for the following:-
Load Classification Table 2.10 TG20:13 - Load Class X, Maximum number of working platforms 2No
Maximum U.D.L Main Platform: 1.50kN/m²
Maximum U.D.L Second Platform: 0.75kN/m²
Maximum U.D.L Inside Boards: N/AkN/m²
total number of boarded lifts = As shown.
The contractor must ensure that the loads allowed for are sufficient for the work being undertaken.

BASIS OF DESIGN
This scaffold has been designed in accordance with the following:-
NASC TG20 Latest Edition
BS 5975:2008+A1:2011 Code of Practice for Temporary Works Procedures & The Permissible Stress Design of Falsework
BS EN 1991-1-3:2003+C1:2010 Snow Loads
BS EN 1991-1-4:2005A1:2010 Wind Actions
MATERIALS
Scaffold Tube as Type 4 Steel Tube to BS EN 39:2001 or BS 1139-1-1 (as new condition)
Load Bearing Scaffold Fittings to comply with BS EN 74:2005 Class A as a minimum (unless otherwise stated)
Scaffold Boards to BS 2482:2009 (38mm depth x 225mm width)

DRAWING STATUS
WORKING DRAWING
ISSUED FOR CONSTRUCTION

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

Rev	Date	Description	Checked	Drawn
C	28/01/20	Updated to Onsite Conditions	PB	OJT
B	26/9/19	Updated to Working	PB	OJT
A	20/8/19	Updated to Clients Comments	PB	OJT

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Job Title
3D Scaffolding - Power Hall, Museum of Science and Industry, Liverpool Road, Manchester

Drawing Title
External Scaffold to Gantry Steelwork - Drawing 2 0f 2

Scaffold Contractor to arrange to print drawings on correct paper size as indicated.

Scale	Date	Drawing Number	Rev
1:150 & 1:75 @ A1	07/08/2019	19-BSD-337-03-02	C
Drawn: Oliver Turner	Checked By: PB		