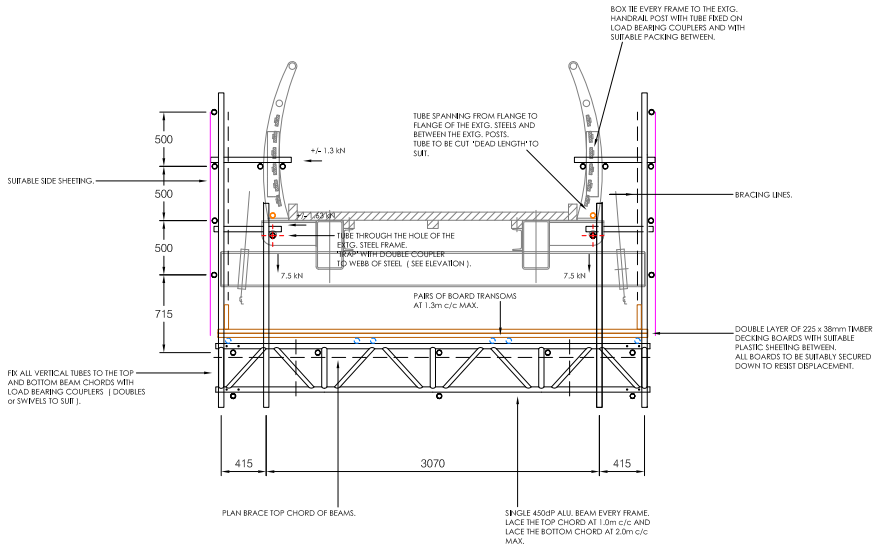
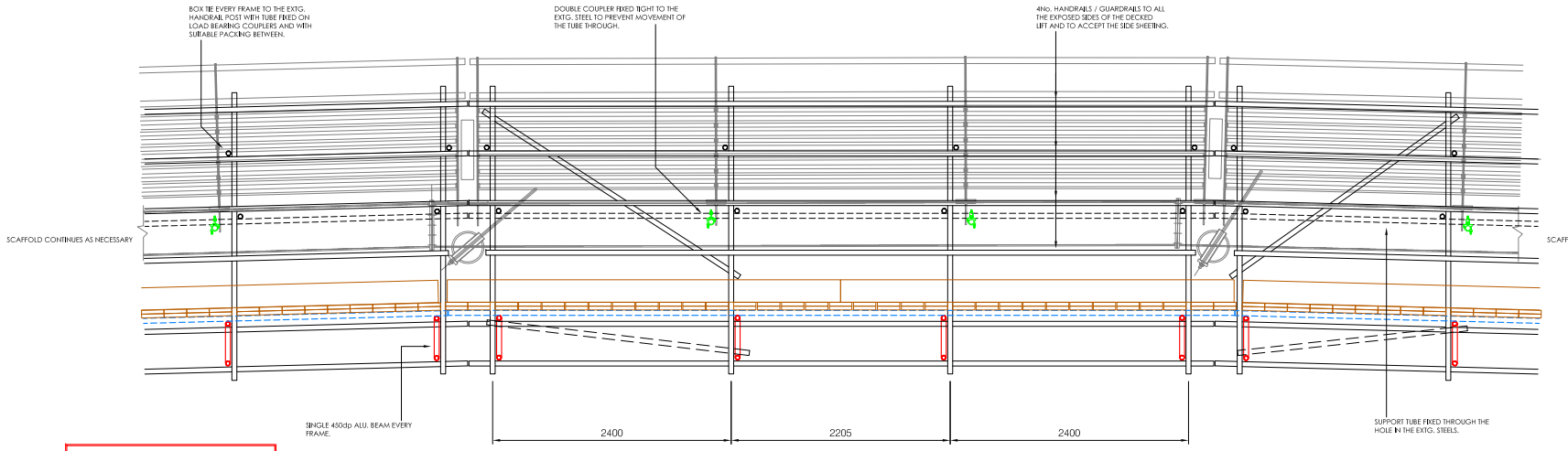
** NOTE !
THIS SCAFFOLD HAS NOT BEEN DESIGNED TO BE SUBMERGED IN RIVER or RESIST IMPACT FROM FLOODING (DEBRIS FROM SAME) AT ANY TIME.



TYPICAL SECTION

** NOTE !
LOADS SHOWN OCCUR EVERY FRAME.
LOAD ARE UNFACTORED.
THE PRINCIPAL CONTRACTOR MUST CHECK AND CONFIRM THAT THE EXTG. STRUCTURE SAFELY SUPPORT ALL LOADS PRIOR TO ANY ERECTION OF THE SCAFFOLD.

** NOTE !
USE LOAD BEARING CLASS A (6.1 kN swl) COUPLERS THROUGHOUT.



PART ELEVATION

** NOTE !
1No. SINGLE BAY (2400 WIDTH) TO BE LIVE LOADED (0.75 kN/sq.m) AT ANY TIME MAX.
PRINCIPAL CONTRACTOR TO MANAGE ON SITE.

** NOTE !
DUE TO SLIGHT SLOPE, IT MAY BE NECESSARY TO INSTALL LATHES ON THE DECK TO PREVENT OPERATIVES FROM SLIPPING - ALL BY OTHERS.

PRINCIPAL CONTRACTOR: PROJECT PRINCIPAL CONTRACTOR (PC)

BASIS OF DESIGN
This design has been prepared from information supplied to us by, or on behalf of the principal contractor, who should check that his requirements have been correctly interpreted and that all dimensions, loadings, clearances, lift heights, bay sizes, platform levels and erection/striking sequences etc, are practicable and as required.

This design has been prepared in accordance with the procedures, technical aspects and design approaches in BS 5975:2008+A1:2011. A permissible stress approach has been adopted.

LOADS FROM SCAFFOLD TO PERMANENT WORKS
It is the responsibility of the principal contractor to ensure the ground and / or the structure, including its fabric, will safely support the loads applied from the scaffold or supply new.

Maximum calculated tie load (horizontal, away from bldg.):
Maximum calculated leg/standard load (vertical, downwards): AS NOTED
Maximum calculated built load (horizontal, towards bldg):

SCAFFOLD DESIGN LOADS
The principal contractor must ensure that all loadings allowed for are sufficient.

Imposed Loads: 1 Level at 0.75 kN/sq.m

Dead Loads:

Maximum calculated windloading: 0.74 kN/sq.m (q at 8.0m)
Working windloading (TG20, cl. 4.2.3): 0.20 kN/sq.m

Maximum number of boarded levels: ONE

TIES & BUTTING
The principal contractor is to supply and maintain all tie & butt positions capable of resisting horizontal and lateral loads. Scaffolds complying to NASC TG20:13 must be butted at every node (every lift x every frame) unless stated or shown otherwise.
Unless noted otherwise all ties to be standard (class A) duty compliant with NASC TG20:13.

DIMENSIONS
Do not scale from this drawing. Use written dimensions only. All dimensions in mm and centre to centre except where stated or shown otherwise.
All dimensions to be checked and verified prior to erection.

MODIFICATION
The structure shown herein is not to be altered without prior written consent from Apex Scaffold Design Ltd.

PERMITS AND PERMISSIONS
It is the responsibility of the principal contractor to obtain all permits and permissions prior to erection.

PROPERTY
This document is the exclusive property of Apex Scaffold Design Ltd and must be returned upon request.

FOUNDATIONS
The principal contractor must design, supply and maintain a suitable flat, load bearing base to all legs / standards / rakers & braces and provide suitable base details / spreaders to suit.

SHEETING & DEBRIS NETTING
Unless noted otherwise sheeting or debris netting is not to be attached to the scaffold.
Where debris netting is specified, high permeability debris netting is assumed.

CONSTRUCTION NOTES
Unless noted otherwise load bearing couplers to be used throughout.

The use of class A load bearing couplers has been assumed unless noted otherwise. Ensure all couplers comply with the following minimum specification:

Double Coupler = 6.1 kN SWL in slip
Double Coupler + 1No. supplementary coupler = 12.2 kN SWL in slip
Double Coupler + 2No. supplementary couplers = 18.3 kN SWL in slip
Swivel Coupler = 6.1 kN SWL in slip
Sleeve Coupler = 3.6 kN SWL in tension

Putlog and Band & Plate couplers to be used only where specifically stated.

Joints in all horizontal tubes to be formed using sleeve couplers and be positioned not more than 300mm from a supporting member.

Where beams are used the following minimum specification has been assumed:

Beam	Permissible Bending Moment	Permissible Shear
Steel Unit Beams	26 kNm	15.6 kN
Steel Ladder Beams	12.7 kNm	12.5 kN
450 Dp. Aluminium Lattice Beams	13.8 kNm	12.1 kN
700 Dp. Aluminium Lattice Beams	33.5 kNm	23.1 kN

All beams to be laced, braced & jointed compliant with the manufacturers specification in order to achieve the above minimum values.

Unless noted or shown otherwise all construction to be compliant with the latest issue of NASC TG20 & SG4.

MATERIALS
Tube: All tube to be type 4 galvanised steel tube compliant with BS EN39 with a minimum yield stress of 235 N/sq.mm. be free from corrosion and in "as new" condition.
Couplers: All couplers to have a minimum safe working load compliant with NASC TG20, Table 5.15. The use of class A couplers has been assumed throughout.
Timber Scaffold Boards: 225mm x 38mm. To be compliant with the latest requirements of NASC TG20 & BS 2482 Pt1. Where board spans are between 1.2m and 1.5m then BS 2482+1. 38+1.0m machine stress graded boards are required. For board spans upto 1.2m NASC TG5 compliant boards are allowed.

Rev.	Date	By	Checked	Description

STATUS
WORKING - SUBJECT TO PRINCIPAL CONTRACTOR APPROVAL

Apex Scaffold Design Ltd
Unit 5
Basepoint Business Centre
Isidore Rd
Bromsgrove. B60 3ET
t: 01527 888975
www.apexscaffolddesign.com

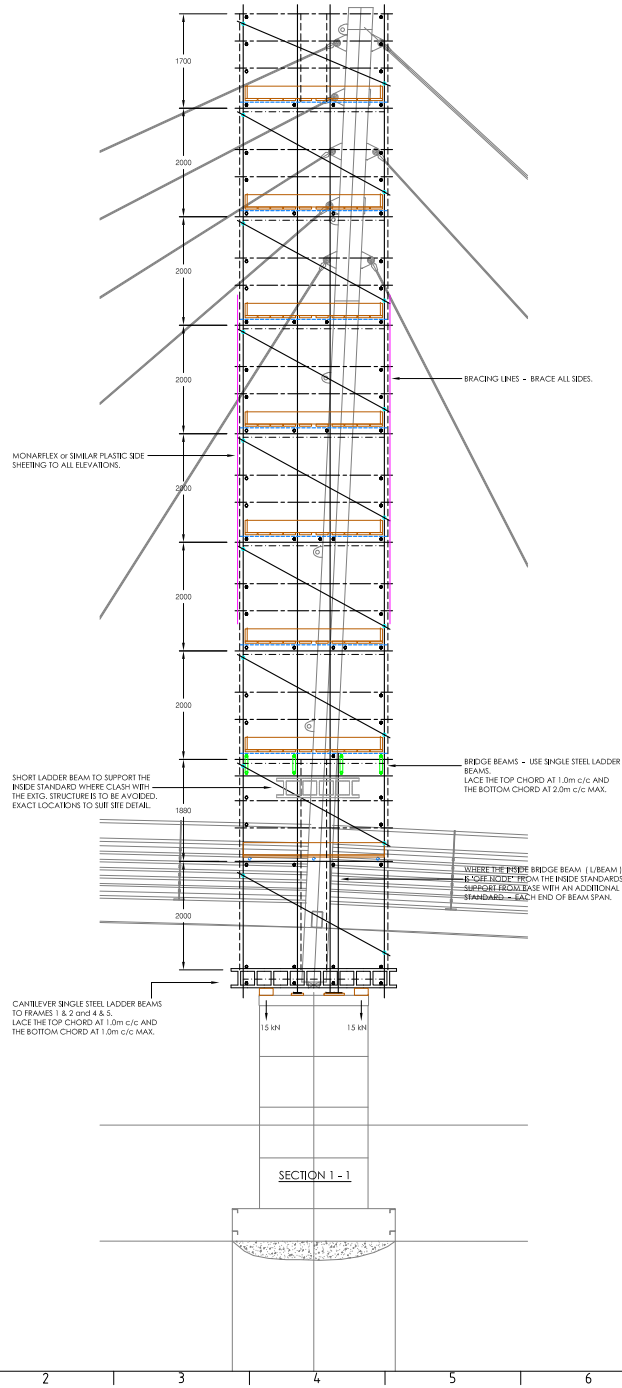
CLIENT
MW SCAFFOLDING LTD

PROJECT
TREFECHAN FOOTWAY / CYCLEWAY BRIDGE
ABERYSTWYTH

TITLE
PROPOSED ACCESS SCAFFOLD
Access to Span

DRAWN	DATE	CHECKED	DATE
C.B.K.	13 - 02 - 20	C.H.	14 - 02 - 20

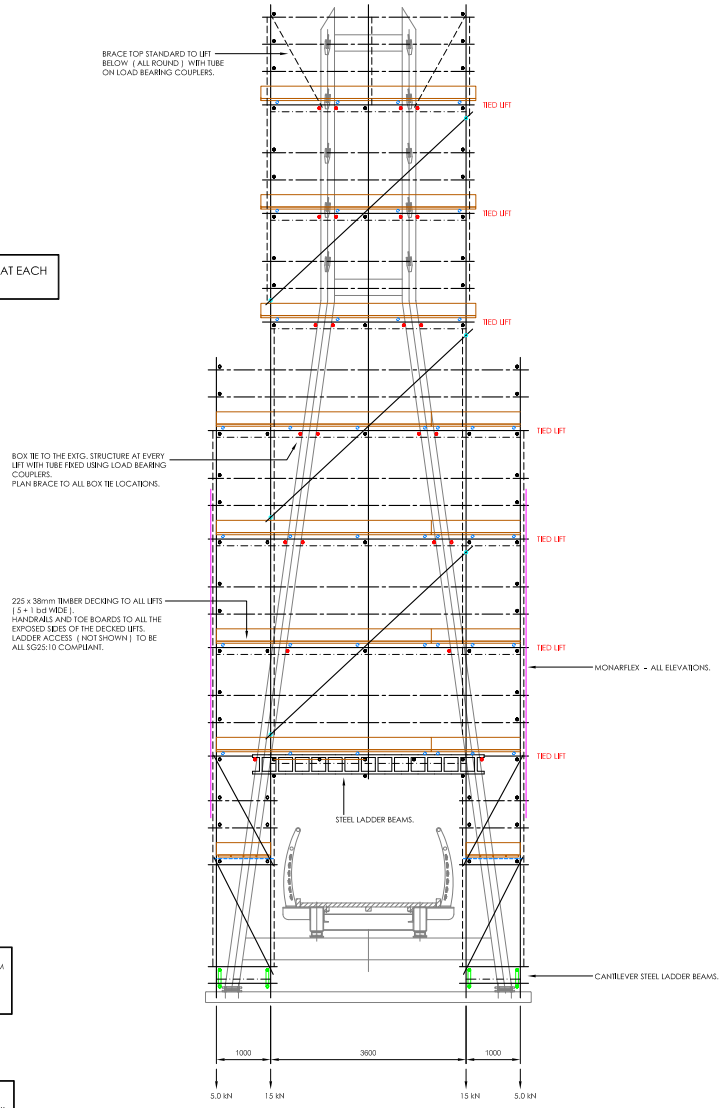
SCALES (AT A1)	DRAWING No.	REV.
1 : 25	D / 20 / 3118 / 100	



MAX. TIE LOAD = 5.4 kN - AT EACH TIE POSITION (ALL LIFTS)

** NOTE !
FIX ALL STANDARDS TO THE TOP & BOTTOM BEAM CHORDS USING LOAD BEARING COUPLERS.
LADDER ACCESS (NOT SHOWN) TO BE ALL SG25:10 COMPLIANT.

LOADS :
LOADS SHOWN ARE UNFACTORED.
THE PRINCIPAL CONTRACTOR MUST CHECK AND CONFIRM THAT THE EXTG. STRUCTURE WILL SAFELY SUPPORT THE IMPOSED LOADS SHOWN / NOTED PRIOR TO ANY ERECTION OF THE SCAFFOLD.



SECTION 2 - 2

** NOTE !
THIS SCAFFOLD HAS NOT BEEN DESIGNED TO BE SUBMERGED IN RIVER or RESIST IMPACT FROM FLOODING (DEBRIS FROM SAME) AT ANY TIME.

PRINCIPAL CONTRACTOR: PROJECT PRINCIPAL CONTRACTOR (PC)

BASIS OF DESIGN
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This design has been prepared in accordance with the procedures, technical aspects and design approaches in BS 5975:2008+A1:2011. A permissible stress approach has been adopted.

LOADS FROM SCAFFOLD TO PERMANENT WORKS
It is the responsibility of the principal contractor to ensure the ground and / or the structure, including its fabric, will safely support the loads applied from the scaffold or supply new.

Maximum calculated tie load (horizontal, away from bldg.):
Maximum calculated leg/standard load (vertical, downwards): AS NOTED
Maximum calculated built load (horizontal, towards bldg):

SCAFFOLD DESIGN LOADS
The principal contractor must ensure that all loadings allowed for are sufficient.

Imposed Loads: 1 Level at 0.75 kN/sq.m

Dead Loads:

Maximum calculated windloading: 0.74 kN/sq.m (q at 8.0m)
Working windloading (TG20, cl. 4.2.3): 0.20 kN/sq.m

Maximum number of boarded levels: ONE

TIES & BUTTING
The principal contractor is to supply and maintain all tie & butt positions capable of resisting horizontal and lateral loads. Scaffolds complying to NASC TG20:13 must be butted at every node (every lift x every frame) unless stated or shown otherwise.
Unless noted otherwise all ties to be standard (class A) duty compliant with NASC TG20:13.

DIMENSIONS
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MODIFICATION
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FOUNDATIONS
The principal contractor must design, supply and maintain a suitable flat, load bearing base to all legs / standards / rakers & braces and provide suitable base details / spreaders to suit.

SHEETING & DEBRIS NETTING
Unless noted otherwise sheeting or debris netting is not to be attached to the scaffold.
Where debris netting is specified, high permeability debris netting is assumed.

CONSTRUCTION NOTES
Unless noted otherwise load bearing couplers to be used throughout.

The use of class A load bearing couplers has been assumed unless noted otherwise. Ensure all couplers comply with the following minimum specification:

Double Coupler = 6.1 kN SWL in slip
Double Coupler + 1No. supplementary coupler = 12.2 kN SWL in slip
Double Coupler + 2No. supplementary couplers = 18.3 kN SWL in slip
Swivel Coupler = 6.1 kN SWL in slip
Sleeve Coupler = 3.6 kN SWL in tension

Putlog and Band & Plate couplers to be used only where specifically stated.

Joints in all horizontal tubes to be formed using sleeve couplers and be positioned not more than 300mm from a supporting member.

Where beams are used the following minimum specification has been assumed:

Beam	Permissable Bending Moment	Permissable Shear
Steel Unit Beams	26 kNm	15.6 kN
Steel Ladder Beams	12.7 kNm	12.5 kN
450 Dp. Aluminium Lattice Beams	13.8 kNm	12.1 kN
700 Dp. Aluminium Lattice Beams	33.5 kNm	23.1 kN

All beams to be laced, braced & jointed compliant with the manufacturers specification in order to achieve the above minimum values.

Unless noted or shown otherwise all construction to be compliant with the latest issue of NASC TG20 & SG4.

MATERIALS
Tube: All tube to be type 4 galvanised steel tube compliant with BS EN39 with a minimum yield stress of 235 N/sq.mm. be free from corrosion and in "as new" condition.
Couplers: All couplers to have a minimum safe working load compliant with NASC TG20, Table 5.15. The use of class A couplers has been assumed throughout.
Timber Scaffold Boards: 225mm x 38mm. To be compliant with the latest requirements of NASC TG20 & BS 2482 Pt1. Where board spans are between 1.2m and 1.5m then BS 2482-1. 38~1.0m machine stress graded boards are required. For board spans upto 1.2m NASC TG5 compliant boards are allowed.

Rev.	Date	By	Checked	Description

STATUS
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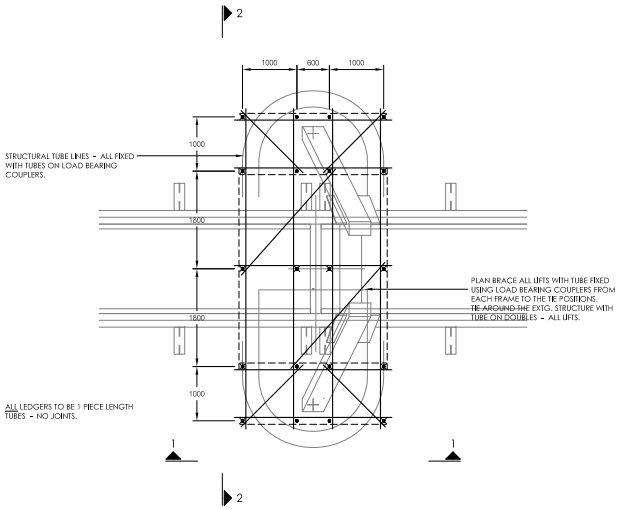
ABERYSTWYTH

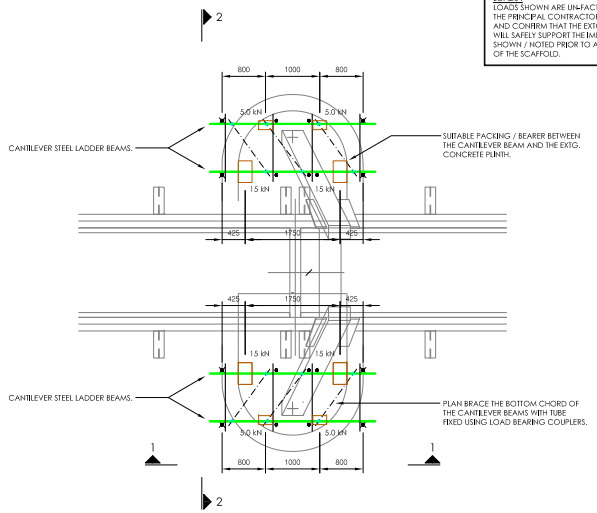
TITLE
PROPOSED ACCESS SCAFFOLD
Access to Column - Sections

DRAWN	DATE	CHECKED	DATE
C.B.K.	13 - 02 - 20	C.H.	14 - 02 - 20

SCALES (AT A1)	DRAWING No.	REV.
1 : 50	D / 20 / 3118 / 200	



PLAN - SCAFFOLD



PLAN - CANTILEVER BEAMS

LOADS :-
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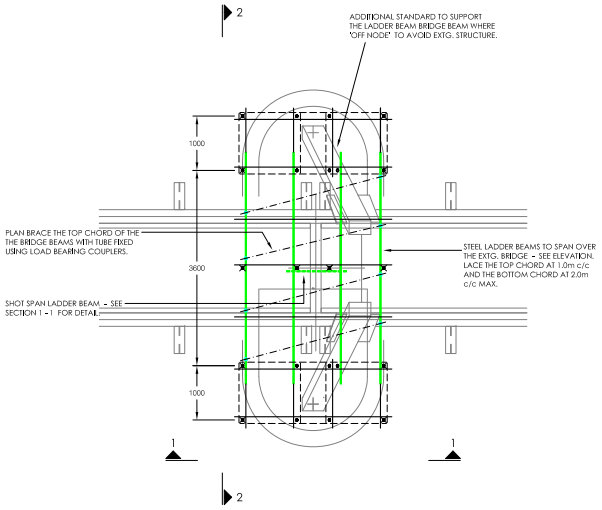
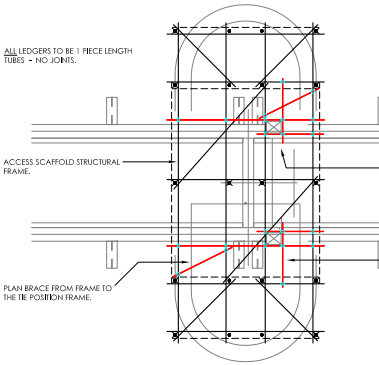
THE PRINCIPAL CONTRACTOR MUST CHECK AND CONFIRM THAT THE EXTG. STRUCTURE WILL SAFELY SUPPORT THE IMPOSED LOADS SHOWN / NOTED PRIOR TO ANY ERECTION OF THE SCAFFOLD.

KEY / LEGEND:

- STANDARDS - FROM SOLID BASE / FOUNDATION
- STANDARDS - OFF BEAMS
- STRUCTURAL TUBE LINES - FIXED WITH LOAD BEARING COUPLERS
- BRACING LINES
- PLAN BRACING LINES
- STEEL LADDER BEAM LINES



PLAN - BRIDGE BEAMS



PLAN - TIE ARRANGEMENT

** NOTE !
THE EXACT LAYOUT WILL / MAY VARY LIFT x LIFT.
DETAIL SHOWN HERE TO BE FOLLOWED TO ALL TIE LIFTS AS PRINCIPAL ARRANGEMENT OF FIXING ETC.

PRINCIPAL CONTRACTOR: PROJECT PRINCIPAL CONTRACTOR (PC)

BASIS OF DESIGN
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SCAFFOLD DESIGN LOADS
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Imposed Loads: 1 Level at 0.75 kN/sq.m

Dead Loads:

Maximum calculated windloading: 0.74 kN/sq.m (q at 8.0m)
Working windloading (TG20, cl. 4.2.3): 0.20 kN/sq.m

Maximum number of boarded levels: ONE

TIES & BUTTING
The principal contractor is to supply and maintain all tie & butt positions capable of resisting horizontal and lateral loads. Scaffolds complying to NASC TG20:13 must be butted at every node (every lift x every frame) unless stated or shown otherwise.
Unless noted otherwise all ties to be standard (class A) duty compliant with NASC TG20:13.

DIMENSIONS
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SHEETING & DEBRIS NETTING
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Where debris netting is specified, high permeability debris netting is assumed.

CONSTRUCTION NOTES
Unless noted otherwise load bearing couplers to be used throughout.

The use of class A load bearing couplers has been assumed unless noted otherwise. Ensure all couplers comply with the following minimum specification:

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Double Coupler + 1No. supplementary coupler = 12.2 kN SWL in slip
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Swivel Coupler = 6.1 kN SWL in slip
Sleeve Coupler = 3.6 kN SWL in tension

Putlog and Band & Plate couplers to be used only where specifically stated.

Joints in all horizontal tubes to be formed using sleeve couplers and be positioned not more than 300mm from a supporting member.

Where beams are used the following minimum specification has been assumed:

Beam	Permissable Bending Moment	Permissable Shear
Steel Unit Beams	26 kNm	15.6 kN
Steel Ladder Beams	12.7 kNm	12.5 kN
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700 Dp. Aluminium Lattice Beams	33.5 kNm	23.1 kN

All beams to be laced, braced & jointed compliant with the manufacturers specification in order to achieve the above minimum values.

Unless noted or shown otherwise all construction to be compliant with the latest issue of NASC TG20 & SG4.

MATERIALS
Tube: All tube to be type 4 galvanised steel tube compliant with BS EN39 with a minimum yield stress of 235 N/sq.mm. be free from corrosion and in "as new" condition.
Couplers: All couplers to have a minimum safe working load compliant with NASC TG20, Table 5.15. The use of class A couplers has been assumed throughout.
Timber Scaffold Boards: 225mm x 38mm. To be compliant with the latest requirements of NASC TG20 & BS 2482 Pt1. Where board spans are between 1.2m and 1.5m then BS 2482+1. 38+1.5m machine stress graded boards are required. For board spans upto 1.2m NASC TG5 compliant boards are allowed.

Rev.	Date	By	Checked	Description

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PROJECT
TREFECHAN FOOTWAY / CYCLEWAY BRIDGE
ABERYSTWYTH

TITLE
PROPOSED ACCESS SCAFFOLD
Access to Columns - Plans

DRAWN	DATE	CHECKED	DATE
C.B.K.	13 - 02 - 20	C.H.	14 - 02 - 20

SCALES (AT A1)	DRAWING No.	REV.
1 : 50	D / 20 / 3118 / 201	