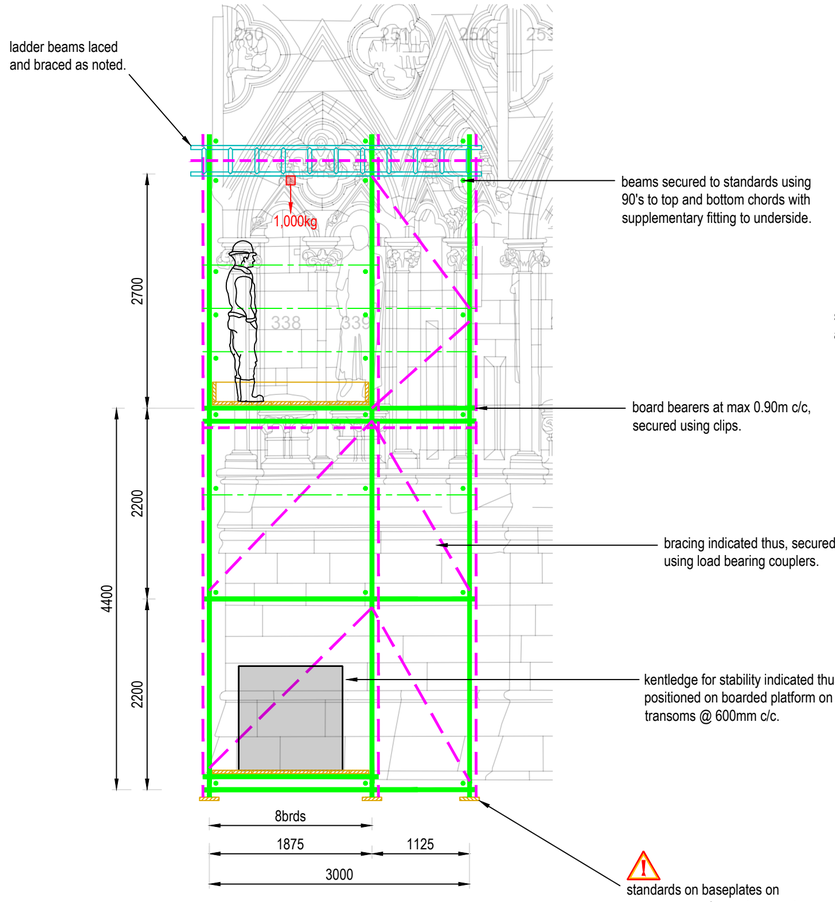
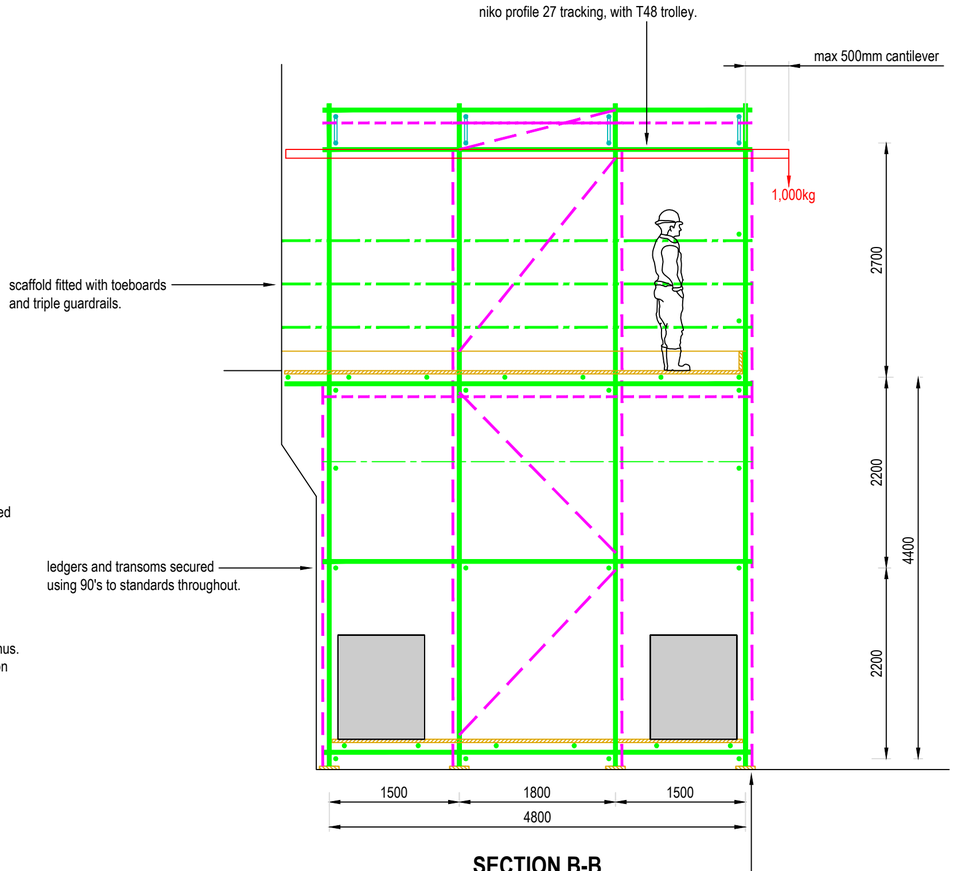
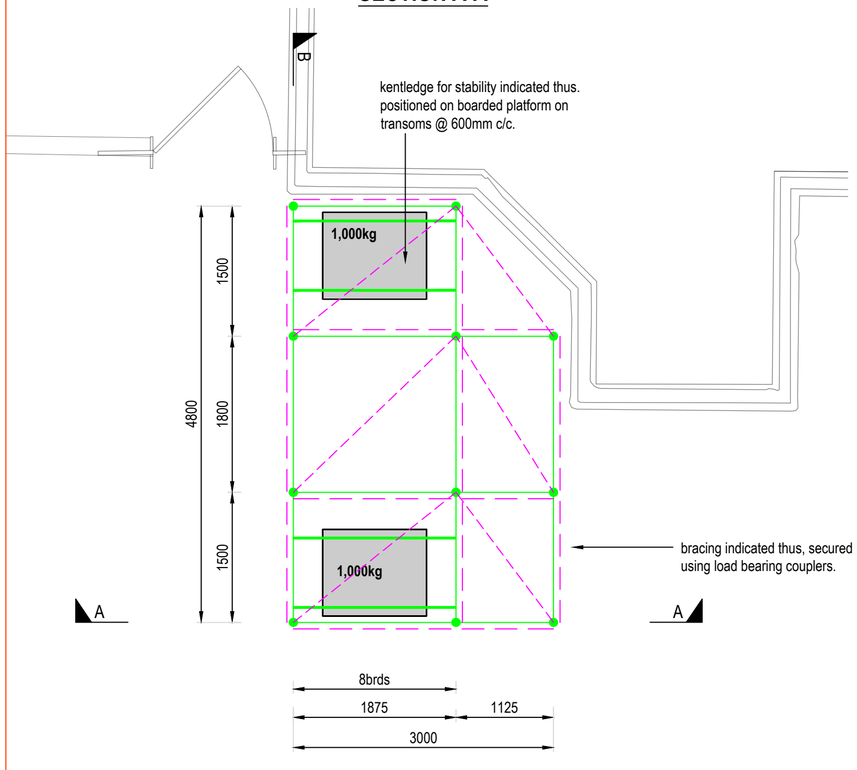


SECTION A-A



SECTION B-B

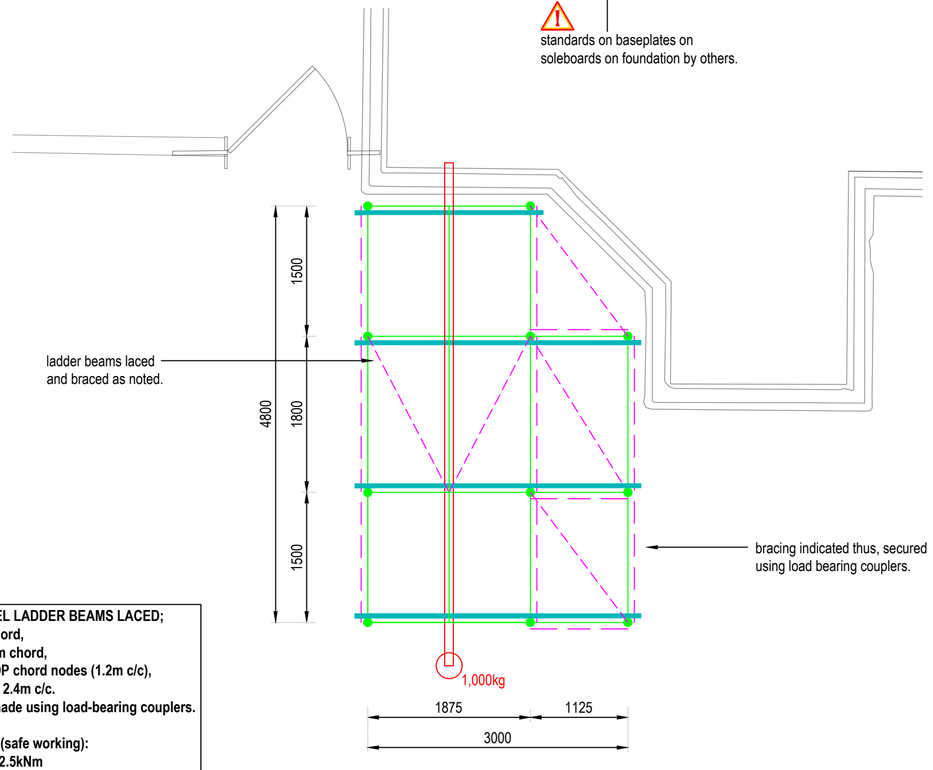


PLAN LAYOUT - base

BRIDGED 305mm STEEL LADDER BEAMS LACED;

- **1.2m c/c to top chord,**
- **2.4m c/c to bottom chord,**
- **plan braced to TOP chord nodes (1.2m c/c),**
- **section braced @ 2.4m c/c.**
- **all connections made using load-bearing couplers.**

Minimum Performance (safe working):
Bending resistance = 12.5kNm
Shear resistance = 15kN



PLAN LAYOUT - lifting

GENERAL NOTES

Property
This drawing is confidential and is the property of Optima Scaffold Designs LLP. No unauthorised use, copy or disclosure is to be made without written permission.

CDM Regulations 2015
The Construction (Design & Management) Regulations 2015, regulation 9, requires that we make the client aware of their duties imposed by the regulations.
Client duties are detailed within The Construction (Design & Management) Regulations 2015.

Basis of Design
This drawing has been prepared from information supplied to us by, or on behalf of the client, who should check that his requirements have been correctly interpreted and that all loading, dimensions, lift heights, bay sizes, erection/striking sequences etc. are as required and practicable.
This drawing has been prepared in accordance with the following:
NASC TG20:21, BS EN 12811-1:2003
BS 5975:2019 Code of practice for temporary works procedures and the permissible stress design of falsework.
BS EN 1991-1-3:2003+A1:2015 Snow Loads
BS EN 1991-1-4:2005+A1:2010 Wind Actions
All scaffolding materials forming this structure are to comply with NASC TG20:21 & BS EN 12811-1:2003.
Scaffold tube taken as BS EN 39:2001 type 4 "as new" condition unless stated otherwise.
All scaffold fittings taken as load-bearing class A fittings unless stated otherwise.
All proprietary equipment must be used in accordance with the manufacturers information.
Scaffolding structure to be erected and maintained by competent operatives in accordance with NASC SG4 and Work at Height Regulations 2005.
Scheme to be read in conjunction with the scaffold contractors quotation, risk assessment and method statement for which the scaffold contractor is responsible.

Wind / Snow Loads
The exposure period to wind and snow loads of this temporary structure is a maximum of 2 years, unless reduced in the text below. Specific advice must be sought if the intended life-span is to exceed 2 years.

Working Platforms
All working platforms must comply with the statutory regulations at all times.
Scaffold boards are to be restrained against movement as per NASC TG12.

Foundations/Supports
The client is responsible for the design of all foundations, below the scaffold baseplate.
Where equipment is supported or suspended from an existing structure the client must ensure that the existing structure is adequate to safely support the scaffold loads.

Tying
The client is responsible for ensuring the existing structure is capable of safely withstanding the scaffold tie loads.
Tie selection should be made by the scaffold contractor using guidance from NASC TG4.
Anchors should be fixed and tested in accordance with NASC TG4.
All ties tubes to be fixed with load-bearing couplers.
The client is to ensure that no ties are removed without the approval of Optima Scaffold Designs LLP.

Shoring Work
Optima Scaffold Designs LLP cannot and will not pass comment on any building being shored as this involves matters beyond our knowledge. It is the clients responsibility to ensure that the permanent structure will safely span between our supports, and can be safely shored in the way indicated.

Temporary Roofs
No temporary roof can be made watertight.
When kentledge or anchorage is specified on the drawing, it must be installed prior to erection of the scaffold above the 1st lift.
For mono-pitch temporary roofs, the minimum slope angle of the roof sheeting is 5° when using CI sheets. For all roof systems the manufacturers recommendations should be followed.
All temporary roofs to be in accordance with NASC TG9.

Sheeting/Fans
No wind protection, sheeting or fans etc. to are to be added to the scaffolding structure unless otherwise stated on this drawing.

Kentledge
Where a scaffold requires kentledge for stability, the kentledge should be placed in position prior to erection of the scaffold above the 1st lift.

Modifications
No alterations are to be made to the scaffold structure detailed on this drawing without written permission from Optima Scaffold Designs LLP.

Dimensions
Written dimensions shall take precedence over scaled dimensions.
The contractor must verify all site dimensions and notify Optima Scaffold Designs LLP of any discrepancies.
The contractor is responsible for accurately setting the position of the scaffold structure.

DESIGN NOTES

Imposed Load
1No. lift @ 1.50kN/m²
Lifting load = 1,000kg.

Environmental Loads
wind (qp) = 0.250kN/m²
exposure period, August only

Foundation Load
maximum load per standard = 15kN

Check Category (BS5975)
category 1

SCAFFOLD TO REMAIN UNCLAD AT ALL TIMES.

FOR CONSTRUCTION

Revision	Date	Description	Prepared	Checked
-	-	-	---	---
-	-	-	---	---
-	-	-	---	---
B	23/8/21	construction drawing	R.M.	R.S.L.
A	14/7/21	platform load reduced	R.M.	R.S.L.

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SHEET SIZE - ISO A2

OPTIMA Scaffold Designs LLP

NASC DESIGN MEMBER

Client: MONTANA SCAFFOLDING LTD.

Project Title: WELLS CATHEDRAL - WEST FRONT.

Drawing Title: LIFTING TOWER.

Scale	Date	Sheet	Drawing Number	Revision
1:50	13/7/2021	1/1	21/OPT/12933-001	B

Prepared by: R.M. Checked by: R.S.L.