

Temporary works design brief

Contract/ Project title:	Newbuild Project Newtownshire	Contract number:	007
Issue date:	14/03/2019	Design required: [Date]	01/06/2019
Site contact name:	A. Bronzeshield	Site contact telephone:	01234 5678910
Site contact email:	Abronzeshield@thesite.com		
Scope and description of temporary works required:			
What are the temporary works? Describe them			
Telescopic crane pad on existing highway road to provide support for Liebherr LTM1350, 350 Tonne lifting capacity heavy all terrain mobile telescopic crane			
Temporary works design allocated to: Provide name and contact details (internal)	Archie Tectoro		
Proposed design company/engineer: Provide name and contact details (internal/external)	Designed Designs Inc		
TW design brief reference:	NPN24	Revision:	01
Information to assist the designer			
Design check category: [0, 1, 2, 3]	3	Implementation risk class: [Very low, low, medium, high]	Medium
Drawings: e.g. dimensioned general arrangement drawings, sections, foundations, services	Traffic management; road closure and approved diversion drawings Telescopic crane pad design drawings. Attached survey and utility drawings.		
Specifications: e.g. permissible stress or limit state	Plate bearing tests on the road surface in the location where the crane pads are to be positioned have indicated an ultimate bearing pressure of 290kPa with 0.2mm settlement. Additional plate bearing tests on the made ground in the location where the crane pads are to be positioned have indicated an ultimate bearing pressure of 246kPa with 5.0mm settlement.		
Design or performance standards: e.g. British Standard or Eurocode, codes of practice, client requirements	British Standards document BS 7121-3 Code of practice for safe use of cranes. Mobile cranes		
Survey and existing information: e.g. site investigation, services information, topographical survey	See attached site investigation survey report and utility drawings. Telescopic crane pad design appendices. A1 Crane outrigger loads A2 Plate bearing test results A3 Road surface crane pad calculations – rigging crane A4 Made ground (former pavement area) crane pad calculations – rigging crane A5 Road surface crane pad calculations – erection of crane		

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Construction restraints/sequence: e.g. hold points, timing of striking/removal, considerations for reuse	Hold points 1. Final inspection of set up location area prior to rigging and erection of crane to ensure suitable protection of underground services. 2. Inspection of crane and rigging making sure the type and capacity of the crane and the rigging equipment used is appropriate for the load. 3. Network Rail Engineer to inspect confirm final set up location regarding proximity to railway infrastructure.
Duration or programme: e.g. phasing	1 week
Third party conditions, licences and approvals: e.g. highways, rail, utility services, environmental	Road closure. Network Rail watching brief due to location proximity to Rail infrastructure.
Preferred method and/or plant/equipment/materials: e.g. sequence and timing for reuse, position of joints, settlement limits, access required	Liebherr LTM1350, 350 tonne lifting capacity heavy all terrain mobile telescopic crane Articulated low loader carrying counterbalance weights and crane rigging.
Extracts from construction project plan: e.g. identified risks and requirements for the health and safety file	RAMS and lift plan. Crane pad set up design and location drawings required for health and safety file.
_____ : (other considerations)	

All TW designs must be provided back to the originator/TWC with the following deliverables:

- An output drawing/technical note/specification – suitable to construct from
- A schedule of any residual risks produced by the design that are considered by the designer to be significant, unusual or not something a competent contractor would normally anticipate
- Details of any specific sequencing/inspections/hold points required to inform the contractor's safe system of work
- A completed TW design and check certificate.

Additional deliverables requested:

Design programme:	Yes/ No	Calculations:	Yes/ No	Other (specify):		Yes/ No
Deliverables issue date:						

Sign off

Design brief originator

Signature:	<i>B.E. Nice</i>	Print:	B.E. Nice	Date:	25/04/2019
TWC					
Signature:	<i>K. Bee</i>	Print:	K. Bee	Date:	25/04/2019
PC's TWC					
Signature:	<i>B.E. Nice</i>	Print:	B.E. Nice	Date:	25/04/2019