

- NOTES:**
1. If in doubt please ask.
  2. Do not scale this drawing.
  3. This drawing is to be read in conjunction with all Engineers, Architects or other relevant drawings and specifications. Any discrepancy is to be reported to the engineer immediately.
  4. The contractor must ensure and will be held responsible for the overall stability of the building/structure/ /excavation at all stages of the work.
  5. All existing details shown are based on limited opening up. Assumptions have been made regarding existing construction. Framing and spans of existing slab joist and walls to be confirmed on site.

**THE DETAIL SEQUENCE OF WORKS OF ITEM B3 IN THE "TEMPORARY WORKS STRUCTURAL ENGINEER'S NOTES AND SEQUENCE OF WORKS" DOCUMENT**

- Subject to findings on site and contractors proposals
- Read in conjunction with the Temporary works structural engineer's notes and sequence of works document.

Note 1: Refer to sequence document for stage A  
 Note 2: at this stage the existing building is to be stripped out and any repairs completed to ensure that the facade is sufficiently stable for the works. TWC and SE to inspect and give permit to work.

B3. Install temporary works to restraint the existing wall in temporary stage. The temporary works of the superstructure refer to drawing TW-403.

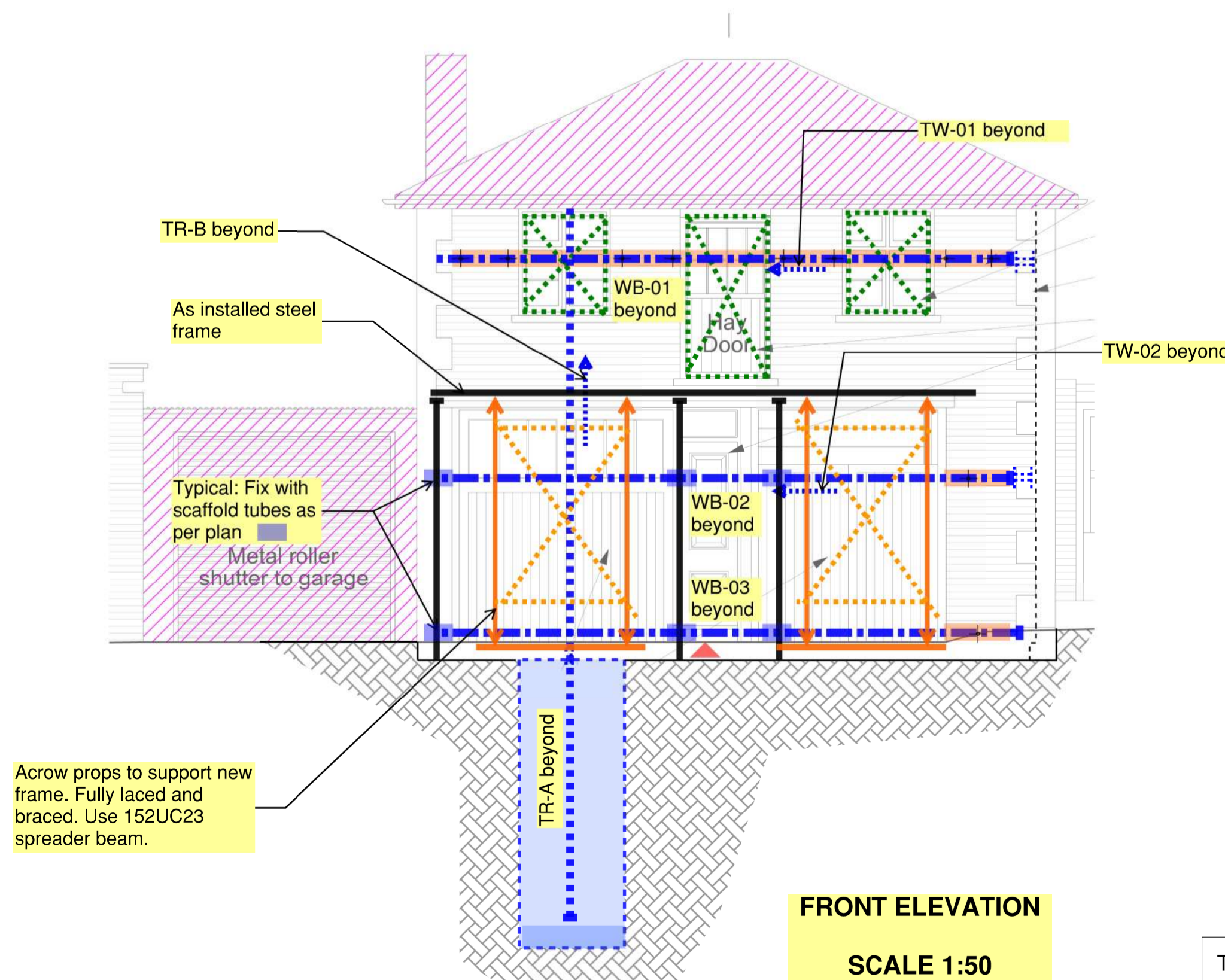
- B3.1. Install steel frame to front facade and back prop:  
 B3.1.1 Install conventional needles and props from temporary bases or spreader beams to support existing facade along GL 1 (and timber roof and floor). TWC to contact TWD if any design or detailed sequence is required.  
 B3.1.2 Permit to load. TWC to inspect the temporary works and sign off arrangement.  
 B3.1.3 Remove the existing structure under temporary works and install steel framing.  
 B3.1.4 Back prop as build steelwork on spreader steel beam and propping. All to be braced to ensure that load is spread during excavation works. Refer to drawing for elevation.  
 B3.1.5 TWC to give permit to unload, remove temporary needles and props (only)  
 B3.2. Carry the enabling works underpins along GL 1 and GL C (item B1 and B2) in fully shored shafts at raking shores location.  
 B3.2.1 Excavate, cast pad foundation and back prop. Refer to drawing TW-401 for underpin locations, sequence document and shoring table for further details.  
 B3.3. Install the proposed temporary columns and raking struts fix to the existing walls and as built foundation.  
 B3.4. Install the proposed waling beams and diagonal struts at each level.

B4. TWC to inspect the temporary works, give PERMIT TO LOAD before proceeding.

B5. Carry out demolition to the existing structure down to ground floor level. Ground floor slab is to be retained.

**PROPOSED SEQUENCE OF WORKS**

We highlight the proposed sequence that we feel will be best for site production, safety and programme. It may be that the contractor wishes to change this sequence in certain areas to accommodate what may be found, as the building work progresses. Seek approval from Temporary Works engineer prior to any change to the above sequence.



**SCHEDULE OF SHORING:**

**STEEL/RMD SHORES:**

- TR-A = RAKE=152UC30 S275
- TR-B = RAKE = 152UC30 S275
- TR-C = STRUT = 150PFC24 S275

- All steel to steel connections to be with min. 4M16 8.8 bolts with 10thk full depth end plates and 6CFW.

TW-01/TW-02= RMD S/Slim soldiers with jack end base (SWL=100kN)

- Bolt to WB- (Waling beams) with min. 4M16 8.8 via full depth 10thk stiffeners to suit.

**WALING BEAMS:**

WB-01/WB-02/WB-03 = RMD S/Slim soldiers laid flat up against wall. LAID FLAT BEAMS AGAINST EXISTING WALLS

- Bolted joints with 10thk end plates and 4M16 bolts (swl=12kNm)
- All corners to be tied with corner pivot (swl=65kN) as per RMD or 4M16 end plates.
- Fix to existing party wall with M12 resin bolts at 0.6m crs or to existing front facade with M12 dywidag bolts as per plan and details. Gaps to be filled in with timber packing to achieve full bearing.
- All resin bolts to be fixed max. 100mm into party wall

Any doubt please ASK

**DENOTES**  
 RED = SELECTED PERMANENT WORKS  
 BLUE - TEMPORARY WORKS

TEMPORARY WORKS CO-ORDINATOR = TBC  
 SE = PERMANENT WORKS ENGINEER = AXIOM STRUCTURES

B1	21.12.2018	Issued for Approval	KK	AP
Rev	Date	Amendments	By	Chk'd

**APPROVAL**

**AXIOM STRUCTURES**

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Project:  
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Drawing title:  
**TEMPORARY WORKS**

Date:	Scale at A1:	Scale at A3:
11/2018	1:50	1:100
Drawn by:	Designed by:	Chk'd by:
KK	KK	AP

Drawing No: **15005/TW/403** Revision: **B1**