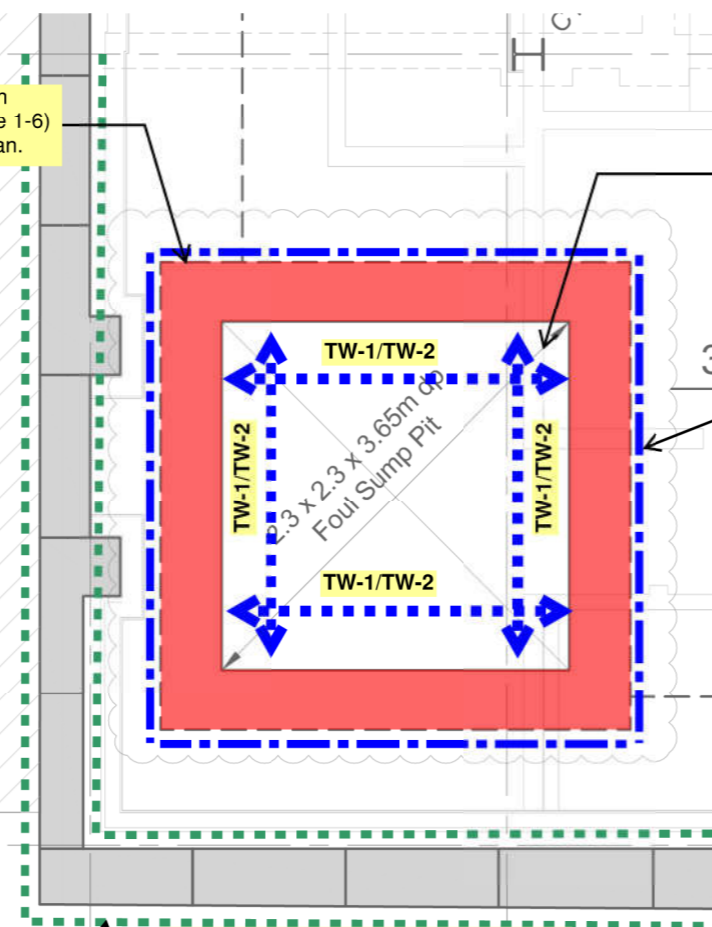
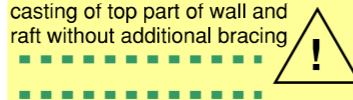


**FOUL SUMP PIT SHORING DETAILS PLAN**  
Scale 1:50

Existing walls to be underpinned before Sump Pit works commences. Min. depth of underpinning = 1.8m bgl to unload shaft and allow for casting of top part of wall and raft without additional bracing



**FOUL SUMP PIT SEQUENCE OF WORKS - TYPICAL PLAN**  
Scale 1:50

**SHORING CONSTRUCTION NOTES:**

Checking regime competent and trained contractor's site personnel to conduct regular excavation inspections. Inspections are recorded and any safety concerns immediately reported to the contracts manager

**SHORING**  
no sacrificial timber shoring to be installed under the party/boundary walls. Should shoring be necessary then use MGF trench sheets or equivalent to form close sheeting at rear of underpinning excavation

**EDGE PROTECTION**  
Edge protection must be installed to a minimum height of 1m above existing ground level

Hand rails to be at spacing not exceeding 450mm

Toe boards to be installed with a minimum of height of 150mm above existing ground level.

**SCHEDULE OF TEMPORARY WORKS: SUMP PIT**

**TRENCH SHEETS:**  
MGF STANDARD S275 overlapped and driven min. 300mm into bottom ground

**WALING BEAMS:**  
WB-01/02/03 = RMD Superslim Waling Beam soldier props with end base (SWL=100kN). Number of shores as per plans

- Corner fixings to be via RMD pivot connectors (SWL=100kN), bolts to RMD specification

- vertical support of WB to contractors proposal, allow for chains/props or angle cleats.

**SHORES (BACK PROPPING TO AS BUILT RC):**

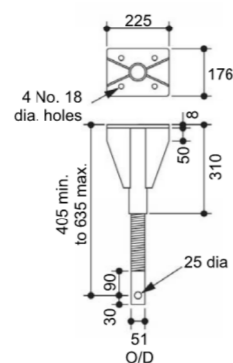
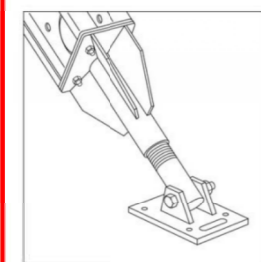
TW-1 & TW-2 = Push pull RMD Superslim soldier props with jack end base (SWL=100kN). Number of shores as per plans

- Fix to concrete with 2M16 8.8 Rawl R-KEX Anchor bolts at 200crs (200mm embedment) (SWL total = 80kN). UNO

Any doubt please ASK

**1.2.33. Superslim Prop Jacks**

Used in pairs to provide length adjustment to Push Pull Props.



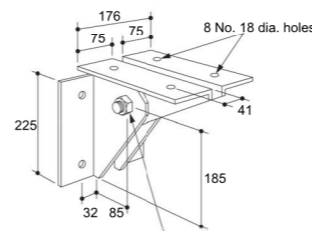
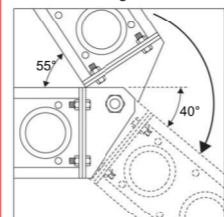
Allowable Working Load ± 100kN

Code	Description	Weight
SSU10007	Superslim Prop Jack (L.H)	14.48 kg
SSU10008	Superslim Prop Jack (R.H)	14.48 kg

**TW-1 & TW-2 FIXING TO CONCRETE**

**1.2.40. Superslim Pivot Cleat Set (SSU10028) Weight 8.75kg**

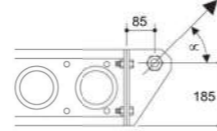
Used as a hinged connector for Soldiers.



Captive M24 x 110 Bolt with M24 Hex Nut

The table below gives the allowable loads which may be applied to the Pivot Cleat Set at the angle and direction shown in the diagram.

Angle Degrees	Allowable Load P (kN)	Angle Degrees	Allowable Load P (kN)
0	59	290	73
10	66	300	63
20	77	310	57
25	85	320	55
30	97	330	53
32-275	100	340	53
280	88	350	55
285	79	360	59



**FIXING BETWEEN WALING BEAMS**

TEMPORARY WORKS CO-ORDINATOR = KNOWLES AND ASSOCIATES  
SE = PERMANENT WORKS ENGINEER = MA ENGINEERS

**MGF Light Sheet Pile Range**

The MGF light sheet pile is a lighter option to our standard range, its usage is the same but can be more versatile when used in smaller excavations. It is available in both overlapping and interlocking options.



Profile	Steel Grade	B (mm)	H (mm)	Weight (kg/m)	Section Modulus Z (cm <sup>3</sup> /m)	Moment Capacity (kNm/m)	
Overlapping Standard 235	S235	330	35	11.35	34.4	45.7	7.3
Overlapping Standard 275	S275	330	35	11.35	34.4	45.7	9.3
Overlapping FKD-400/B	S275	400	50	22.1	55.3	98.8	19.0

**TRENCH SHEETS**

READ IN CONJUNCTION WITH TW-421

READ IN CONJUNCTION WITH TEMPORARY WORKS SEQUENCE OF WORKS

**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.

Rev	Date	Amendments	By	Chk'd
B1	30.01.19	Issued for Approval	AS	AP

**APPROVAL**

**AXIOM STRUCTURES**

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Project: **THE BULL AND LAST PH LONDON, NW5 1QS**

Drawing title: **TEMPORARY WORKS SHAFT SHORING DETAILS AND PLANS**

Date:	Scale at A1:	Scale at A3:
01/2019	AS	AS SHOWN
Drawn by:	Designed by:	Chk'd by:
AS	AS	AP
Drawing No:	Revision:	
18542-TW-422	B1	