

**PLAN VIEW - FRAME (F1) LAYOUT**  
 MGF 406UC Tank Brace c/w 1No. 1250kN 400 Series Strut &  
 2No. 1250kN 400 Series Knee Braces

Sheet Piles					
Description	Product ID	Sheet Length	Weight per m	Assembly Weight	Count
MGF GU 21N Sheet Pile	3.14	11000	81.90 kg/m	900.90 kg	28
MGF GU 21N Sheet Pile	3.14	11500	81.90 kg/m	941.85 kg	29

Corner Piles					
Description	Product ID	Sheet Length	Weight per m	Assembly Weight	Count
MGF BS20 Corner Pile	3.005	11500		165.60 kg	2

Frame F1			
Description	Product ID	Assembly Weight	Count
MGF 400 Series 0.25m Extension	9.706	165.00 kg	1
MGF 400 Series 0.50m Extension	9.705	214.00 kg	3
MGF 400 Series 1.00m Extension	9.710	310.00 kg	2
MGF 400 Series 4.00m Extension	9.740	889.00 kg	1
MGF 400 Series 3500kN Type A Swivel	9.704	264.00 kg	4
MGF 400 Series End Cleat	9.703	102.00 kg	2
MGF 406UC 0.60m Extension	8.405	374.00 kg	2
MGF 406UC 3.00m Extension	8.430	1228.00 kg	2
MGF 406UC 4.00m Extension	8.440	1588.00 kg	2
MGF 406UC 6.00m Extension	8.460	2309.00 kg	2
MGF 406UC 1250kN Hydraulic Ram	8.399	1394.00 kg	4
MGF 1250kN Hydraulic Strut	8.400	1047.00 kg	3

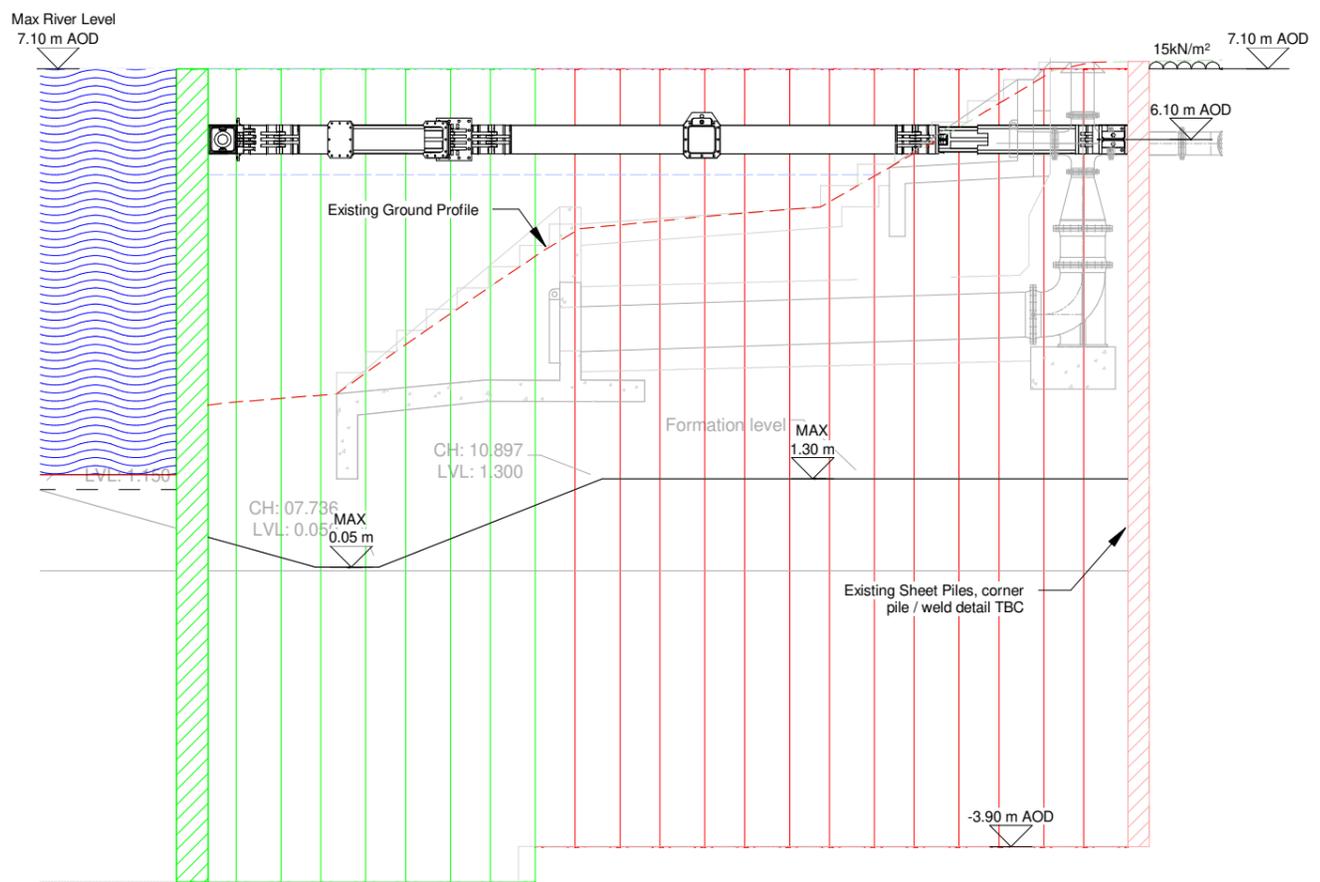
**CONCEPTUAL NOTES**

- Design Assumptions:**
- 15kN/m<sup>2</sup> surcharge has been taken to consider all plant (45Te Max Considered).
  - No further surcharges / loadings have been considered.
  - Crane will not operate during excavation and will be used to install the sheets only. Sheets will be removed by crane after ground inside the cofferdam is reinstated to original levels.
  - Soil profile has been based on BH06 & CPT06.
  - Groundwater anticipated at 7.10m AOD (High Flood Level)
  - River flow assumed to be <2m/s

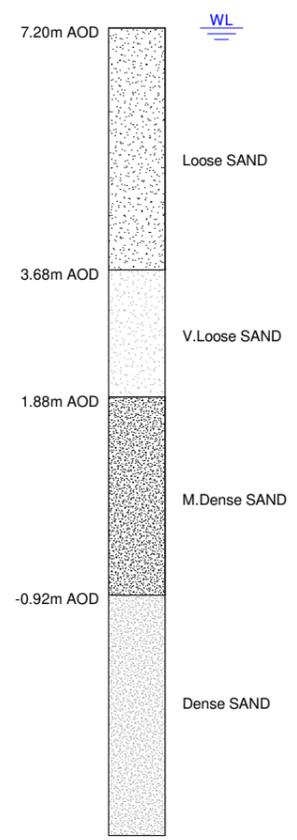
- Excavation Details:**
- Dig Depth: Varies
  - Plan Dimensions: 15.432m x 7.455m (See Plan View)
  - Installation Sequence: Pre-Drive

- Residual Risks:**
- Boiling and stability of the base of the excavation. Internal dewatering system might be considered by the customer.

- Customer Requirements:**
- Customer to confirm all design assumptions are correct.
  - Customer to confirm plant size operating during the excavation until ground is reinstated on completion of permanent works.
  - Customer to provide survey of existing sheet piles.



**SECTION A-A**



**SOIL PROFILE BASED ON BOREHOLE LOG REF: BH06 & CPT06**  
 Groundwater anticipated at 7.10m AOD

Issue	Issue Description	Date	Designed	Drawn	Checked
T3	Length & underlays revised	13.01.23	MD	MAS	SB
T2	Length revised	01.09.22	MD	AK	SB
T1	For Tender	26.08.22	MD	AK	SB

**CONCEPTUAL**

**EXCAVATION SAFETY SOLUTIONS**  
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Customer: **D Morgan**

Site: Airfields, Deeside, The Airfields, Deeside, CH5 2RD

Scheme: Effluent Discharge Cofferdam

Drawing Title: Temporary Cofferdam

Date: 26.08.22	Designed: MD	Drawn: AK	Checked: SB
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Drawing No: **68252 - 100** Rev: **T3**