

Document Information						
Document Title:	cument Title: Pile Installation ITP					
Document Title:	Γ	ITP-ME-01				
Subcontractor:	k	K&T Construction Australia/United Civil				
Client:	(	Chint				
Project:	roject: Maungaturoto Solar Farm					
	Revision History					
Rev	Date	Description	cription Originator Checked		Approved	
1	25/10/2024	For Approval	GS	ML	ML	



## **PILE INSTALLATION ITP**

Contract: Maungaturoto Solar Farm ITP Number: ITP-ME-01

Contact Details		Summary of Requirements	Reference Drawings/Manuals/Standards	Records		
Customer		Pile Installation	• 520_02_01_Maungaturoto_FS2V-23°-	(MDR Insert as marked 3)		
Client PM			12_DUO_EX	Inspect Release Cert		
Construction Manager			• 520_02_02_Maungaturoto_FS2V-23°- 24_DUO_EX	Deviations/Concessions		
Project Manager			• DD-2412.011-REP-C1	Material Certificates		
Subcontractors		Traceability:	Maungaturoto SF NZ_Layout	Conformance Certificate		
Design:		Material Alloy Verification:	Schletter_30.07.24	Welding Records		
Drafting:		Heat Treatment Pressure Testing:	• MSF-EN-GEN-DRG-001_1.2	Welder Qual. Register		
NDT:		Consumable: NDT	MSF-EN-GEN-DRG-001_1.3	NDT Reports		
Pressure Test:		Welder ID: WPS		Report on Repairs		
Surface Treatment:		Electrical: Instrumentation		Heat Treatment Records		
Surveillance / Inspectio	n Key	Heat Treatment: N/A		Non-Conformance Report		
HOLD POINT (H): Nomina	ated point beyond which			Pressure Test Records		
	ithout verified acceptance	Dimensional Control: N/A		Drawing & Data Sheets		
by nominee. 48 hours of notice must				Misc. Verification Records		
be provided prior to commencement of works.  WITNESS POINT (W): Points at which the nominee		Testing (NDT): N/A		Dimensional Records		
shall be notified and invite				Position		
but further work may proceed without the presence		Acceptance Specification: IFC Drawings				
of the nominee.	•					
				Construction Manager	CM	
	mination of documentary			Project Manager	PM	
evidence that inspection /	tests have been	Pressure Testing: N/A	Procedures /Reports	Quality Representative	QR	
satisfactorily conducted.			Piling SWMS	Technician	T	
SURVEILLANCE (S): Continuing evaluation of the status		Elect. / Instrumentation: N/A	<ul> <li>AS-BUILT Pile Stake Out Report</li> </ul>	Document Controller DO		
of methods, analysis of records and monitoring of				Subcontractor SC		
activities on a random basis to ensure quality of requirements will be met.		Notes:			E /I	
VISUAL (V): 100% Visual inspection of work / item to				Elect. / Instrumentation	E/I	
ensure compliance with code / spec						
DIMENSIONAL (D): Measurement of critical						
dimensions to ensure wor						
tolerance						

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ITEM NO:	PROCESS ACTIVITY	PROCEDURE / INSTRUCTION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	VERIFICATION		REMARKS
					EPC	CLIENT	
1.1	Permits and Approvals	Ensure Permits are in place including, but not limited to:  • Excavation Permits	Excavation Permit	Working Party to have access and sign onto permits where required.	Н	R	
1.2	Identification of underground services	Use of DBYD and other methods to positively identify underground services.	Engineer to verify DBYD	DBYD / Excavation Permit Survey (if required)	Н	R	
1.3	Approval of SWMS	Submission, review, and approval of all SWMS for the works	SWMS Approved		Н	NA	
1.4	Conformance of Materials	All delivered materials and procured items conform to project specifications and IFC drawings.	As per Drawings and specifications	Delivery Docket	R	S	
1.5	Inspection Measuring and Test Equipment (IMTE) Registers	Supply of all calibration certificates to the engineer including but not limited to: Survey Equipment	Visual	Calibration Certificates	R	S	
2.1	Survey and set out of piles	Mark the ground in accordance with Schletter pile location	Visual as per Schletter pile location spreadsheet.	Survey As Constructed record     Pile location spreadsheet	Н	S	
2.2	Pile distribution to respective blocks	Distribute colour coded piles, dimensions, and length into allocated location	<ul> <li>Visual. Piles distributed as per Schletter drawings i.e., correct colour code, dimensions, and length.</li> <li>Pile location CSV file</li> </ul>	Survey As Constructed record	R	S	

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2.3	Pile refusal	Drive piles to depth until it reached point of refusal.	Record pile location and mark on the drawing Record actual pile embedment depth Pile refusal in accordance with Pile Refusal Procedure Pile Testing Procedure Piles cut and holes drilled as per Schletter documentation	Survey record Pile marked on the drawing 1. Schletter - ITC - Piling ITC Data Tracker Excel Pile Monitoring Sheet - Embedment Depth - Reveal Height Pile test result documentation	S	S	
2.4	Piles installation	Install pile on correct location as per Schletter drawing     Install pile within the design tolerances     Piles should have no damage or deformation and in correct orientation	Tolerances as per Schletter Installation Manual Section 7.2 Installation Tolerances:  • North-South 3°  • East-West ± 3°  • Pile Twisting from axis:± 5°  • Distance E/W: ±100mm  • N/S: ±50mm Reveal Height: ±100mm  • Height difference foundation posts within one row: ±50mm  • Piles have no damage deformation and in correct orientation.	Schletter - ITC – Piling Surveyset-out data ITC Data Tracker Excel Pile Monitoring Sheet Pile(s) marked on the As- Constructed drawing/Red Line Mark- up Punchlist Survey record	R	S	

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2.5	Cold Galvanising Repair, if required	Use two coats of zinc rich galvanising paint on damage, deform, and top of piles	<ul> <li>Galvanising repaired as per manufacturer's recommendation and procedure.</li> <li>Visual</li> </ul>	• Schletter - ITC — Piling	R	S	
2.6	As Constructed records  – Red Line Mark-Up (RLMU) Drawings.	Engineer to compile and record changes on IFC Drawings, to be issued to Client .	Visual	RLMU Drawings	R	S	
2.7	Develop Punchlist	Development of punch list with PM/CM and/or Supervisor	Punchlist closed in a timely manner	Punchlist	R	S	
2.8	Final Walk Down	100% visual verification required for each pile upon ITP sign off	Visual	Punchlist, if required	Н	Н	

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Sub-Contractor Representative	Client Representative
Name:	Name:
Signature:	Signature:
Date:	Date: