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CHN1A GDC

Method Statement for Installation of FRP Cable Support in Trench

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Method Statement for Installation of FRP Cable Support in Trench

Client:	Sino-Thai Engineering and Construction Public Company
	Limited
Project:	CHN1A GDC
Subject:	Method Statement for Installation of FRP Cable Support in
	Trench
Location:	Nong Yai, Chonburi
Document No.:	XXXXXXX

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3.	Equipment and Tool	. 4
4.	Job safety analysis	. 7
5.	Resources	. 8
6.	Procedures of Installation	. 9
	6.1 Preparation	. 9

1. Purpose

The purpose of this method statement contains the details of method statement for fabrication and installation of FRP Cable $_{3 \text{ of } 28}$ ch which shall be done during the execution of work outlined in the title. The document is

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issued, at Project level, as Method statement complete with Project information requirements and contractual obligations.

2. Scope of work

This method command specifies the process for This method statement covers the requirements for preparation, construction and all the other work as required for Installation of installation of FRP Cable Support in Trench in Pomelo Project.

- Personal protective equipment: PPE such as helmet, safety shoes.
- General tools such as gloves, rubber hammer, dust mask

3. Equipment and Tool

All equipment and tools being mobilized on site will be certified and in good running condition.

They must be checked and inspected by PM/CM SHE personnel prior to use. Equipment Operation shall have proper training as required by Thai law.

Tools

- Drill and Suitable Bit
- Measuring Tape and Level
- Wrenches / Socket set

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- Anchors and Bolts
- Personal protective equipment: PPE such as helmet, safety shoes.
- General tools such as gloves, rubber hammer, dust mask

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MATE!	DESCRIPTIONS	MATERIAL
1	FRP RACK COMBINE TYPE	
2	FRP RACK SINGLE TYPE	W 2 72
3	STANCHION	
4	FRP RACK ARM	
5	ANCHOR	I The state of the
6	BOLT	6 of 28

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4. Job safety analysis

JSA's will be developed for all activities and approved JSA's will be attached along with PTW for implementation of controls. Job site supervisor should ensure that all controls are adequately communicated to the work force and controls are implemented.

Personal Protective Equipment (PPE)

All personnel shall wear required P.P.E (safety helmet, safety boots, gloves, reflective vest, and safety glasses, safety harness) all the time. This should include vendors making deliveries to site. Purchase Orders should provide instruction to vendors that delivery drivers shall comply with site PPE requirements.

Lifting Work

All Lifting equipment will be inspected and shall have valid test Certificates. This equipment will be operated and maintained in a safe manner by the certified operators. Copies of inspection certificates and Operator's daily checklists will be kept inside the vehicle / equipment at all times for unannounced and routine audits. Subject to Project requirements, heavy lifts will require a detailed lift plan for the activity. Engineers will check the stability of the ground before positioning any lifting equipment on the ground before attempting any lift. All Mobile equipment will be inspected by the operators on daily basis. Structured checks will be conducted for all the routine lifts. Lifting gear will be inspected and maintained regularly with an appropriate color-coding system and registers. Lifting gears will also be inspected prior to use by the Lifting Safety Manager. All lifting operations shall be controlled by the Lifting Safety Manager. 7 of 28

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Project :		POMELO Data	Center	Project
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: Client Owner

Contractor : Sino-Thai Engineering & Construction Public Company Limited

Discipline : FRP Cable Support in Trench

Document No.

Rev. No. : 0 : 25 October 2025

Date : ITP-E-02 ITP No.

						Participation Lev	rel	
Item	Description of Inspection or Test	Applicable Specifications	ACCEPTANCE CRITERIA	Reporting Format	JEC	SINO-THAI	Owner / Owner's representative	Remarks
1	Main Material Submition							
1.1	Material receive							
	FRP Cable support	Division 26 05 36	MATERIAL APPROVED: CHN1A-003-E-MTA-ZZZ-0013	GN-02	I	I	W*	
	Installation							
2.1	Pre Installation							
	Verify against drawing to ensure latest IFC drawing	IFC Drawing	SPD APPROVED	GN-05	I	Ţ	W*	
	Survey location to installation	Section26 05 45 8023 , SECTION 33 71 19	SPD APPROVED	GN-05 (A,B,C)				
2.2	Install FRP support to trench wall	Division 26 05 36	SPD APPROVED	EE-03	1	1	W*	
3	Final inspection							
3.1	Photo report			GN-03				
					Ĺ			
					1		1	

*** The reference documents and acceptance criteria above may be added, changed, or waived when found later in the contract that had stated in different and then apply such statement instead.

	ction Paguiromente :					
Inspection Requirements :						
- 1	: Inspection					
W	Witness Point					
W*	: Random Witness					
R	Review					
N/A	: Not Applicable					
Α	: Approval					
	: Fill by Owner / Owner's representative					

Responsible Parties				
Owner	: Quartz Computing Co., Ltd.			
Contractor	: SINO-THAI			
SINO-THAI	: Sino-Thai Engineering & Construction Public Company Limited			

Attachment : List of Quality Record Forms

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Equipment

All equipment shall be inspected and certified in line with Owner requirements and applicable Thai regulations. Operators shall be licensed, trained and qualified in applicable Thai regulations. Operators shall conduct daily checks prior to commencement of the job activities.

Hot Works

Adequate Risk Assessment is conducted and controls such as P.P.E, equipment inspections, firefighting equipment, trained fire watchers, etc., are in place. Training required will be provided to personnel involved in hot work activities.

5. Resources

- Field engineer / Project Engineer Field engineer or Project Engineer are on-site technicians who troubleshoot issues and problems with construction work, fully understanding contractual construction requirements. Assist superior to formulate construction plans. ensure that all workers always use the provided PPE, ensure that all workers properly follow the work procedures and ensure that plan is understood by the construction team.
- **Supervisor** / **Foreman** Coordinating construction work according to priorities and plans, Supervise and train workers and trades people, resolve problems when they arise and report to Field Engineer or Project Engineer, ensure that all workers always use the provided PPE, ensure that all workers ^{9 of 28} with the work procedures

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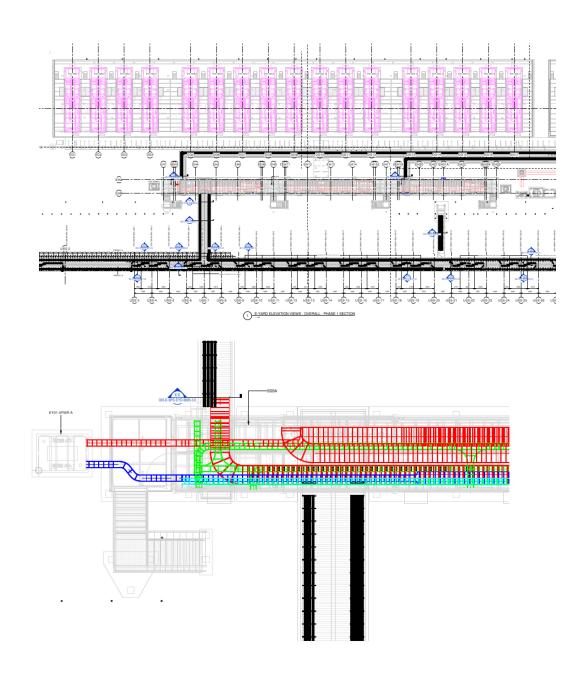
 Site HSE Officer Developing and executing health and safety plans in the workplace according to legal guidelines, Preparing and enforcing policies to establish a culture of health and safety, evaluating practices, procedures and facilities to assess risk and adherence to the law.

6. Procedures of Installation

6.1 Preparation

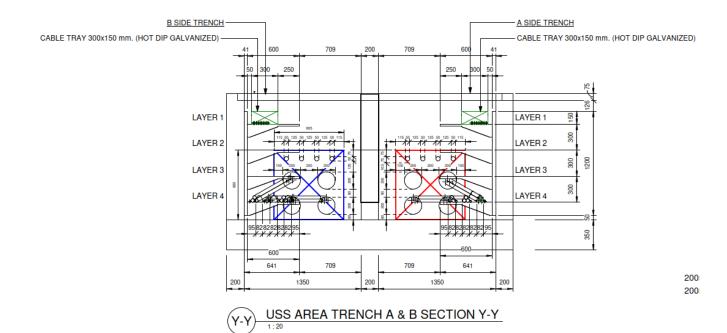
- Ensure that all personnel attending the safety orientation meeting toolbox talk about safety meetings to understand the safety rules and regulation as well as working procedure.
- Ensure that all personnel who are involved in inactivity are equipped with personal protective equipment such as safety helmet, safety shoes, reflective vest, safety full body harness, gloves and safety glasses. Also, PPE shall always be in good condition.
- Ensure that all equipment has passed the safety requirements.
- Define working area, lifting area and provide the access way and install soft barricades or warning signs and traffic signs around the perimeter.
- Maintain housekeeping within the working area.
- Site supervisor/Safety officer must always be on site during erection work.
- Fire extinguisher /Fire Hose shall be provided if necessary.
- 6.2 Verify the latest approved shop drawings and trench dimensions. Determine the FRP rack loc '10 of 28' 'drawing.

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LAYOUT PLAN FOR FRP CABLE SUPPORT INSTALLATION IN TRENCH

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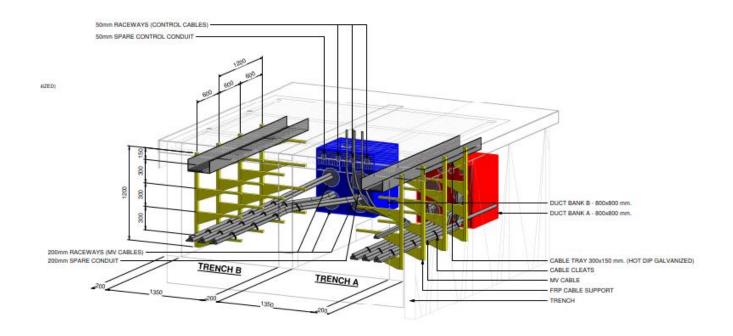
SECTION FOR FRP CABLE SUPPORT INSTALLATION IN TRENCH





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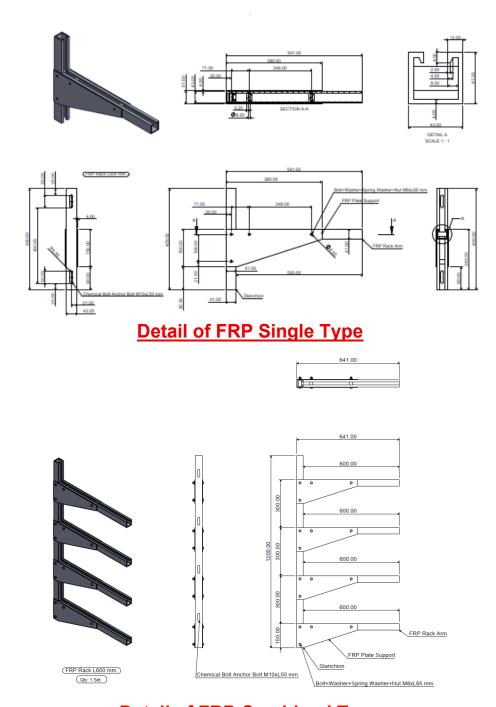
(Y) 3D FOR USS AREA TRENCH A & B SECTION 2

3D OF FRP CABLE SUPPORT INSTALLATION IN TRENCH

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SURVEYING RECORD (LAY OUT OF REFERENCE POINT)					Page of
SURVE	TING RECORD (LAT OUT OF REF	ERENCE POII	NI)	Date :
Project :			Report No.	:	
Client :			Drawing No.	:	
Contractor :			Rev. No.	:	
Area/Unit :			ITP No.	:	
Location :			_		
A. Description & location	:		D. Instrument No./Se	erial No. :	
B. Bench mark used	:				
C. Surveying data	:				
Requested by		Inspected by		Witness by	
SINO-THAI	Sign / Date	SINO-THAI [QC]	Sign / Date	Owner/Owner representative	Sign / Date

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REQUEST FOR INSPECTION

То	:		Request No.	:	
Project	: POMELO PROJEC	Г	Discipline	:	
Area/Unit	:		Request Date	:	
Ref. Dwg. No.	:				
We hereby notify	you of following inspections	and tests for your witness inspec	tion		
Ins	pection Item	Location		Date &	Time
1 2 3 4 5 6 7 8 9 10 Attachments: Note:	☐ Yes □				
Requested by : SINO-THAI	Sign / Date	Received by : SINO-THAI [QC] Sign /	Date	Acknowage Owner / Owner's representative	Sign / Date
Note :					

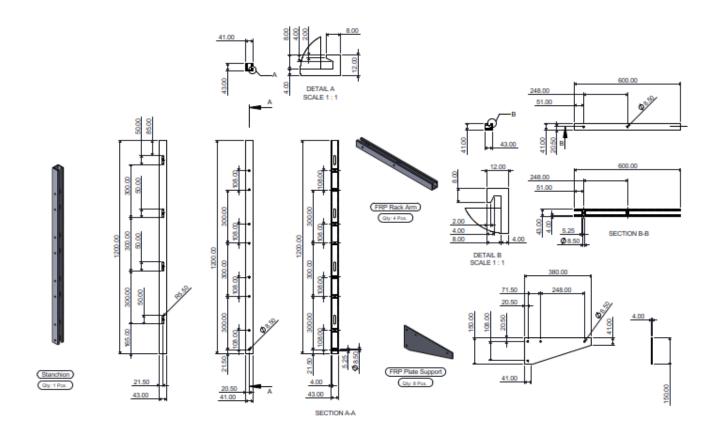
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Item	Material Description	Quantity	Unit	Class / Length / Weight	Certification No.	Heat No.	Result	Remark			
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	-										
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	Requested by	Inspected b	у		Withness by						
	Sino-Thai Sign/Date	Sino-Thai(Q0	3)	Sign/Date	Client / Client'	3	Date				

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- 6.3 Ensure trench base is clean, level, and free from debris.
- 6.4 Mark anchor positions for stanchion installation using chalk line or laser level. Maintain correct centerline spacing and ensure horizontal level.
- 6.5 FRP Cable Support Installation Procedure
 - a) Fix the Stanchion
 - Drill holes into the structure (floor, wall, or beam) for M10×L50 chemical anchor bolts
 - Clean holes and inject approved chemical adhesives.
 - Insert anchors and fix the FRP Stanchion (U-Strut 41×41×t4×L1300 mm) vertically.
 - Check plumb alignment and allow curing time for the chemical anchor.

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Detail of FRP Stachion and Arm

b) Install the FRP Rack Arms

- Attach the FRP Rack Arms (L600 mm) horizontally to the stanchion using M8×L65 bolts with washers.

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LIST OF QUALITY RECORD FORMS

No.	Description	Form No.	Rev.	Used	Remarks
	GENERAL				
1	REQUEST FOR INSPECTION	GN-01	00	1	
2	MATERAIL RECEIVE AND INSPECTION REPORT	GN-02	00	1	
3	PHOTO REPORT	GN-03	00	1	
4	SURVEYING RECORD (LAY OUT OF REFERENCE POINT)	GN-04 (A)	00	1	
5	SURVEYING RECORD (ELEVATION)	GN-04 (B)	00	1	
6	SURVEYING RECORD (POSITION)	GN-04 (C)	00	1	
	ELECTRICAL				
1	FRP CABLE SUPPORT IN TRENCH	EE-03	00	1	

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- Each stanchion supports multiple rack arms at spacing defined in the drawing (typically 300 mm vertical spacing)
- Ensure arms are level and aligned.

c) Fix the FRP Plate Supports

- Install FRP Plate Supports (L600 mm) on the rack arms using the same bolt sets.
- These provide additional support for cables and trays.
- Tighten bolts to secure but avoid overtightening to prevent FRP damage.

d) Final Inspection

- Verify vertical and horizontal alignment.
- Ensure all bolts and nuts are properly tightened.
- Confirm all FRP surfaces are free of cracks or delamination.
- Clean the installed rack and prepare for laying cables.

-

7. CLEAN UP

When all inspection has been completed and clean all the installed rack and prepare for laying cables.

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Sino-Thai Engineering & Construction Public Company Limited Page of **PHOTO REPORT** Date : Project Report No. : Client Drawing No: Contractor : Rev. No. ITP No. Area/Unit Location Description : Description : Description : Description:

Form: GN-04 (A) R00 issue 10/10/2025

*	STECON>

		SURVE	YING RECO	ORD (ELEV	ATION)		Page	of
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Project	:				Report N	o. :		
Client	:				Drawing	No. :		
Contractor	:				Rev. No.	:		
Area/Unit	:				ITP No.	:		
Location	:							
A. Descripti	on & location	:			D. Instrument N	lo./Serial No. :		
B. Bench m	ark used	:						
C. Surveyin	g data	:			T		1	
STATION	BS	ні	IFS	FS	DWG.	ACTUAL	DIFF. (mm.)	REMARK
				-				
 	<u> </u>					Form: GN-MED 01 P0		
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Form: GN-04 (B) R00 issue 10/10/2025

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SURVEYING RECORD (POSITION)									Page	of	
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Location	:						='				
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C. Surveying	g data	:	<u> </u>				F. Time & Weat	ther	:		
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	Е		1		Е						
No./STA.	НО	R. ANGLE /AZIMUTH	HOR. DIST.	ACTUAL PN	COOF	PE	PN	ORDINATE PE	PN	PE	REMARK
				PN		PE	PN	PE	PN	PE	
Requested				Inspected				Witnes			
SINO-TH	IAI	Sign / Date		SINO-THAI	[QC]	Sig	n / Date	Owner/O represent	wner tative	Sigi	n / Date

STECON	>	Sino-Thai Eng	ineering & Constructi	on Public Compan	y Limit	ed				
EXCAVATION WORK INSPECTION REPORT								Page	of	
Project : Owner : Contractor : Area/Unit : Location :						Report No. : Drawing No. : Rev. No. : ITP No. :			Date :	
No.	Items to be Ch		ked	Inspection Meth	Inspection Method Pas		sult Not Pass	Rema	ırk	
1	Pre Install	ation (Verify against drawing to e	nsure latest IFC drawing)	Visual Check						
2	Installatio		<u></u>							
2.1	Excavation	ı work		Visual Check						
	- Ched	ck location and direction correct as p	er IFC drawing	Survey Record	ı					
	- Ched	ck width and depth of trench in accor	ding IFC drawing.	Visual Check						
	- Ched	ck elevation of trench and compacted	d soil with clean condition	Visual Check						
3	Final Inspectiion									
	- BackFill and Compact			Visual Check						
	- Photo report			Visual Check						
	- Final survey report		Visual Check							
Note:										
	ested by	0: 15:	Inspected by	0: /5 /						
SIN	O-THAI	Sign / Date	SINO-THAI [QC]	Sign / Date		Ow	nowage by _ ner/Owner	Sign / Da	te	

STECON

Sign / Date

STECON	Sino-Thai Engineering & Constr	uction Public Company	Limited		
	FRP CABLE SUPPORT INSTALLATION IN	ISPECTION REPORT			Page of
	THE GABLE GOTT ON INGTALLATION II	tor Earlow REF ORT			Date :
Project	:		Report No.	:	
Owner	:		Drawing No.	:	
Contractor	:	-	Rev. No.	:	
Area/Unit	:		TP No.	:	
Location	:		•		
No.	Items to be Checked	Inspection Metho	d Re Pass	Sult Not Pass	Remark
1	Anchor Installation		Pass	NOLPASS	
1.1	Anchor Brand, Type	Visual Check			
1.2		Visual Check			
1.3		Measuring			
1.0	- Collisii and morvai	Modedaning			
2	FRP cable support installation				
2.1	Type	Visual Check			
2.2	Arm Length	Measuring			
2.3	Arm Level	Measuring			
2.4	Position and Interval	Measuring			
2.5		Visual Check			
2.6		Visual Check			
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SINO-THAI	Sign / Date	SINO-THAI [QC]	Sign / Date	Acknowage by	
				Owner/Owner	Sign / Date

Sign / Date

STECON