ENERGY FIJI LIMITED

BIDDING DOCUMENT

MR 204/2025

CONSTRUCTION OF TRANSFORMER PAD AT PRECAST SUBSTATION, MOKOSOI ROAD, PACIFIC HARBOUR, DEUBA

Tender Closing Date: 1600hrs, Wednesday, 18th June, 2025
Site Visit Date: 1300hrs, Wednesday, 11th June, 2025 at Mokosoi Road Junction, Pacific Harbor, Deuba

Section 1. Instructions to Bidders

1. Scope of Bid	The Energy Fiji Limited (hereinafter referred to as "the Employer"), wishes to receive bids for Construction of Transformer Pad at Precast Substation, Mokosoi Road, Pacific Harbour, Deuba as specified in these bidding documents
2. Eligible Bidders	This Invitation to Bid is open to bidders who have sound financial background and have previous experience. Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer shall reasonably request. Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent.
3. Eligible Materials, Equipment and Services	The materials to be used in the construction of Transformer Pad at Precast Substation, Mokosoi Road, Pacific Harbour, Deuba under the Contract shall have their origin. The bidders may be required to provide evidence of the past experience in construction and civil works.
4. Qualification of the Bidder	To be qualified for award of Contract, bidders shall submit proposals regarding work methods, scheduling and resourcing which shall be provided in sufficient detail to confirm the bidder's capability to fulfil the contract.
5. Cost of Bidding	The bidder shall bear all costs associated with the preparation and submission of its bid and the Employer will in no case be responsible or liable for those costs. Bidders are requested to upload electronic copies via Tender Link by registering their interest at: https://www.tenderlink.com/efl . **EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.**
6. Deadline for Submission of Bids	Bids must be submitted on the tender link no later than 1600 hours (Fiji Time) (Wednesday 18/06/2025). The Employer may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadlines extended.
7. Late Bids	Any hard copy bid received by the Employer after the deadline for submission of bids prescribed will be rejected and returned unopened to the bidder.
9. Employer's Right to Accept any Bid and to Reject any or all Bids	The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action.

10. Notification of Award	Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder by fax/email, confirmed by registered letter, that its bid has been accepted. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") shall name the sum which the Employer will pay the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price"). The notification of award will constitute the formation of the Contract. Upon the furnishing by the successful bidder of a performance security, the Employer will promptly notify the other bidders that their bids have been unsuccessful.
11. Signing of Contract Agreement	At the same time that he notifies the successful bidder that its bid has been accepted, the Employer will send the bidder the Form of Contract Agreement provided in the bidding documents, incorporating all agreements between the parties. Within 7 days of receipt of the Form of Agreement, the successful bidder shall sign the Form and return it to the Employer.
12. Corrupt or Fraudulent Practices	The Employer requires that the Contractor observe the highest standard of ethics during the procurement and execution of such contracts. In Pursuance of this policy, the Employer: (a) defines, for the purposes of this provision, the terms set forth below as follows: (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition; (b) The EFL will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

Technical Specifications for Construction of Transformer Pad at Precast Substation, Mokosoi Road, Pacific Harbour, Deuba

1.0 General Description

The successful bidder is to demolish the existing outdoor transformer and switchgear plinth and construct a new 500kVA transformer pad mount and switchgear plinth and fence including HV/LV earthing for Energy Fiji Limited, whilst maintaining the quantity specified in the table below (Pad mount and Switchgear Dimension). In addition, the bidder shall carry out all construction works in order to construct concrete plinth, fence and HV/LV earthing. This work is inclusive of fence earthing as well. In addition, the bidder's proposal shall address all functional and performance requirements in terms of timeline, man power and resource allocation within the specification and shall include sufficient information and supporting documentation in order to determine compliance with this specification without further necessary inquiries. Also note that the bidder is required to use own materials and resources for the civil works and is required to provide traffic and pedestrian management with FRA appropriate barricades, cone and signs for as long as the project persists.

2.0 Specifications

The civil works to be carried out is to be divided into 5 phases and to be completed within 5 consecutive weeks from phase 1 (week 1). Below is the strict EFL timeline to be complied by the bidder. Under no circumstances is the bidder to differ any works -the postponement of works and alterations in the timeline will be dictated by the employer only. If the bidder fails to comply with the time line then the bidder will be required to increase their materials and resources in order to compensate for the days lost at no cost to the employer (EFL).

Listed below are the various phases of the project, their scope of works and stipulated completion period- **The bidder is to list their bid price in VIP FJD with respect to each of the 4 phases followed by a total cost in FJD VIP**;

Phase	EFL Scope of Works	Week	Bidder Price (FJD VIP)
1	**Demolition** Carry out demolition works on the existing transformer and switchgear plinth. Existing fence to be demolished as well, remove waste and debris from site and legally dispose. **Conditioning and preparation of foundation for new padmount and switchgear;** A NDM at 98% compaction is to be achieved prior to construction of plinth. (Note that the conditioning and preparation of the foundation to be in accordance with Standard EFL Pad-mount and switchgear Plinth dimensions and loading capacity.)	1	$_____
2	**Construction of Concrete Base (Plinth) for 500kVA Pad-mount Transformer;** 1. Concrete shall be high grade 30MPa in accordance with NZS 3104 and shall have a maximum particle size of 20mm. 2. Reinforcement shall be high grade 430 Deformed steel bar in accordance with NZS 3402	2 & 3	$_____

	3. The concrete inserts shall be 316 Grade stainless steel. 4. The Top and Sides of the plinth shall have a surface finish of class F4 if cast against the mould. 5. The top and sides of the plinth shall have a surface finish of class U3 if the top of the plinth is poured in accordance with NZS 3114 6. Refer to DWG No. A3 01 C12 010 and A3 01 C12 011 for plinth foundation construction details. 7. Earthing conductors shall be installed in cable trenches before the base is installed 8. Normal trench backfilling shall not be used in the area to be covered by the reinforced concrete plinth 9. Area extending 300mm outside the edges of the RC Plinth shall be excavated to the level as follows; 10. In stiff clay, sandstone or fully compacted (mech) to dig around 200mm below finished ground level. 11. In firm clay to dig around 350mm below finished ground level. 12. In soft clay or soil to dig around 450mm below finished ground level 13. This area shall be backfilled with compacted granular hard fill then covered with a 50mm level layer of sand. 14. Construction must be as per EFL standards – refer to DWG No. A3 01 C12 010 and A3 01 C12 011 15. If EFL standard design is not followed on site then bidder must submit stamped modified drawing for EFL approval prior to construction and inspection. **Construction of Concrete Base (Plinth) for Outdoor Switchgear;** 1. The plinth shall be manufactured in accordance with NZS 3109. 2. The reinforcement steel used shall be in accordance with NZS 3402 & NZS 3422, where HD bars = 430mpa & mesh = 485mpa. 3. Concrete shall not be less than high grade 30mpa in accordance with NZS 3104 and shall have a maximum particle size of 20mm. 4. The concrete inserts shall be within 2mrn of dimensions shown. 5. Concrete inserts of m20 shall be provided for lifting the plinth. The inserts shall be welded to the reinforcement steel for extra strength. 6. all surface finishes shall be in accordance with NZS 3114, where formed surface shall be f4 finish and trowelled surface shall be i-j2 finish 7. The plinth is designed for a maximum weight of 1 tonne. The overall weight of the plinth shall be clearly marked for lifting purpose. 8. All joints to be epoxied. 9. All dimensions are in mm. 10. Construction must be as per EFL standards – refer to DWG No. A3 01 C12 015 11. If EFL standard design is not followed on site then bidder must submit stamped modified drawing for EFL approval prior to construction and inspection. Phase 2 to complete before the end of week 3.		
3	**Trenching and Cable diversion** 1. Dig and expose all incoming and outgoing cable on the existing temporary transformer padmount and switchgear 2. Carry out trenching from temporary Transformer Padmount and Switchgear to new Transformer Padmount and Switchgear plinth 3. Re-divert HV and LV Cables from Temporary Transformer Padmount and Switchgear to new Transformer Padmount and Switchgear. 4. Trenching of approximately 10m as per EFL standard A3 01 E24 028 3. 5. Sand, slab, backfill and reinstate as per FRA Requirements.	4	

	Phase 3 to complete before the end of week 4.		
4	**Construction of Fence to secure 500kVA Pad-mount Transformer and Switchgear;** 1. The fence should be constructed on lines shown on site plan. 2. Fencing is to fully encompass both the transformer padmount and switchgear 3. Chain link to be PVC Coated 4. All Fence Posts to have PVC End Caps. 5. All metal work and welding shall be thoroughly wire brush cleaned and coated with two coats of zinc primer and one coat of enamel finish. 6. All Welding shall be 6mm continuous fillet weld 7. Earthing conductor to run in the same trench to the earthing rods 8. Danger notices to be attached to the fence 9. Cable route to be traced prior to commencing with digging works. 10. Refer to DWG No. A3 01 C15 005 as reference, contractors to take measurement during site visit. 11. Spread 20mm screened crushed metal around the transformer and switchgear inside the fence. Phase 4 to complete before the end of week 5.	5	$_____
5	**Earthing of Padmount Transformer ,Switchgear and Fence** 1. The typical HV & LV Segregated earthing details provided as per DWG: A3 01 E08 007 is to be complied as a guide. This may be modified/Changed to suit installation location to meet earthing requirement provided it is accepted by EFL. 2. The minimum separation distance allowable from the earth cable to HV/LV power cable is to be 500mm at locations where the earth grid is crossing over the HV&LV trenches. 3. The earth electrode depth from ground level shall be a minimum of 500mm. Refer to all the details in DWG: A3 01 E08 007. 4. The minimum spacing distance between earth electrodes are to be 1500mm 5. The minimum separation distance between the HV and LV earth grid at any point shall be 1000mm 6. Earthing conductor to run in the same trench to the earthing rods for fence 7. Earthing conductors shall be installed in cable trenches before the base is installed for the plinth 8. If the minimum HV & LV resistances are not achieved, ground enhancing material is to be used to improve the earthing resistivity. Earthing resistivity must be as per EFL standards at all times. 9. Earthing must be as per EFL standards – and comply with DWG No's: A3 01 C15 005, A3 01 E08 007, A3 01 C12 010 and A3 01 C12 011 Phase 5 to complete within 1 week during phase 3 and phase 4.	5	$_____
TOTAL BID PRICE FJD VIP			$_____

2.1 Site Detail

Below are indications of the proposed works site;

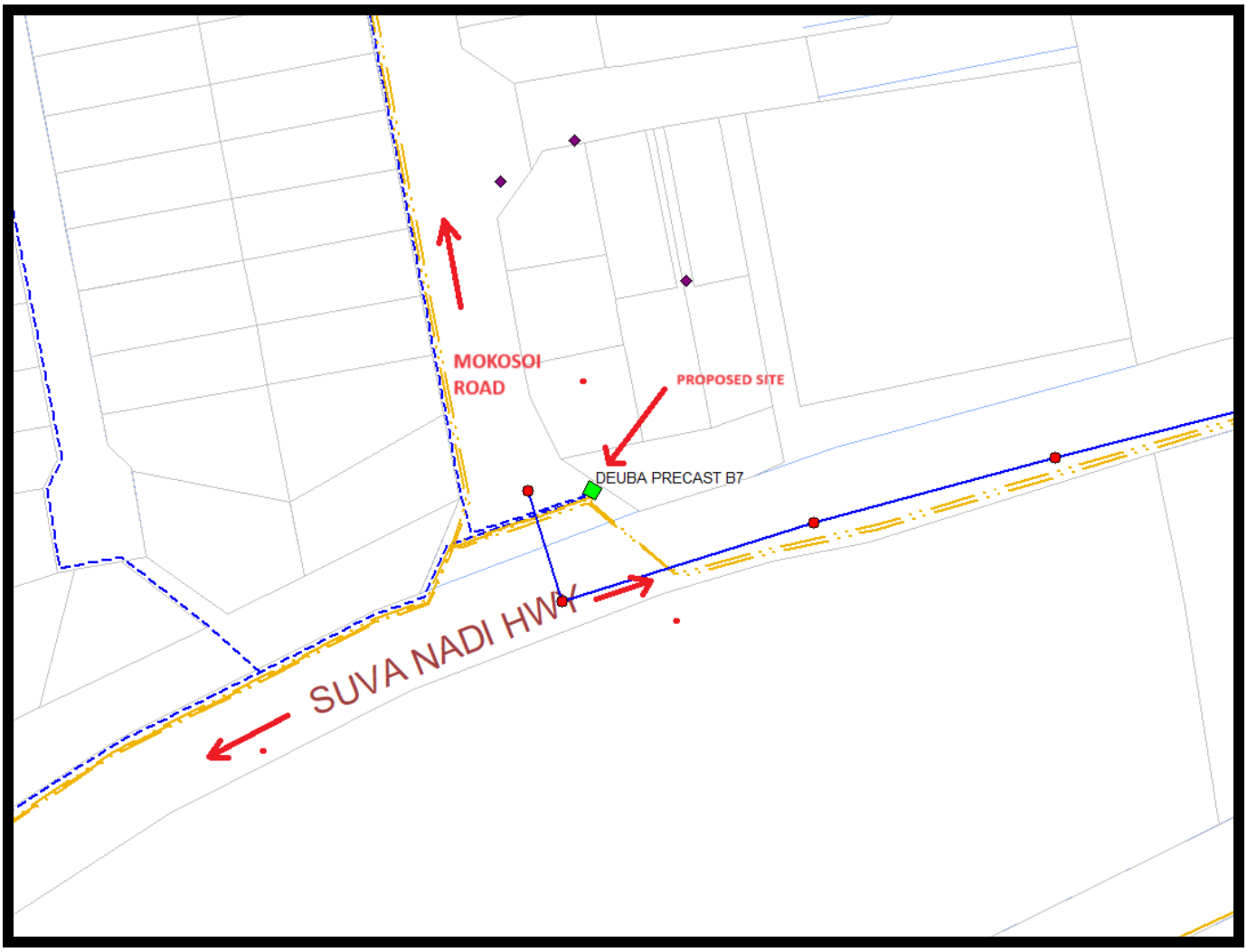

Figure 1: MAP Location of Proposed Pad-mount Transformer and Switchgear

2.2 500kVA Padmount Transformer Foundation Preparation and Conditioning Criteria

The 500kVA Padmount Transformer Foundation shall be prepared and conditioned to withstand weight of 5000kg. The dimension of the transformer plinth/ foundation is as follows:

Size	Overall Length	Overall Width	Overall Height	Total Withstand Mass
500kVA	3230mm	2000mm	600mm	5000kg

Note: The dimensions may vary for the proposed 500kVA Padmount Transformer Foundation, however, the ability of the foundation to withstand the mass of the Pad-mount must hold. Any deviation from the EFL standards and Drawings must be notified to EFL. Works must only commence prior to approval from EFL

3.0 Relevant Standards

While construction, the Bidder should comply with NZS3104 (Specification for concrete production), NZS 3402 (Steel bars for the reinforcement of concrete) and NZS 3114 (Specification for concrete surface finishes) standards.

4.0 Technical Specification Criteria

Note to bidders: Please submit a copy of the table below with your products details (in the BIDDERS PRODUCT DETAILS column) in comparison to what is required by the employer.

No.	Requirements	EFL Requirements	Bidder to Submit
1	Tax Compliance Certificate	Submit Valid certificate	
2	FNPF Compliance Certificate	Submit Valid certificate	
3	Business Registration Certificate	Submit Valid certificate	
5	Public Liability Insurance	Submit Valid certificate	
	Contractor All Risk Insurance	Submit Valid certificate	
6	Past Experience in construction of Pad mount Plinth or similar concrete construction works	Bidder to Specify	
7	Concrete Ready Mix	30MPa	
8	Standards compliance	NZS3104,NZS3402,NZS3114	
9	Materials	Bidder to use own resources	
10	Reinforcing Grade	430 deformed steel bar	
11	Maximum Particle Size	20mm	
	Concrete Inserts	316 Grade Stainless Steel	
13	Provide Engineer's Certificate for plinth	Passing of plinth by registered engineer and certificate to be given to EFL	
14	Civil Engineer / Consultant	Bidder to provide detail of which engineering company or engineer will be utilized for providing engineering certificate and ensuring construction is to standard	
15	Construction timeframe	To be done, cured and ready for transformer installation within 35days (bidder to state timeframe)	
16	Installation of earthing conductors in the trench	Earthing rod & materials will be provided by EFL. Bidder to confirm to carry out earthing works	
17	Work Schedule	Contractor to submit work schedule to for the next 4 months for all jobs undertaken and show capability to carry out project within the time frame of 5 weeks	
18	Man Power Listing	Also state how many employees will be dedicated to the project on a full time basis.	

5.0 Payment Schedule

Payment shall be made as per payment schedule:

Phase	Description	Percentage payment
1	Construction of Concrete Base (Plinth) for 500kVA Pad-mount Transformer;	20%
2	Construction of Concrete Base (Plinth) for High Voltage Switchgear;	20%
3	Construction of Fence to secure 500kVA Pad-mount Transformer;	20%
4	HV Cable Trenching and cable diversion to new transformer and switchgear	10%
5	HV/LV Earthing of Padmount Transformer and Fence	10%
6	Sand, Slab, Backfill and Reinstatement	10%
7	Retention	10% to be released after 6 months pending zero defects.

6.0 Mandatory Compliance

i. FNPF Compliance
ii. Tax Compliance
iii. FNU Compliance
iv. Insurance Certificate
v. Company Registration Certificate
vi. Labor Details
vii. Machinery, Tools & Equipment Details
viii. OHS Compliance
ix. Traffic Management Plan
x. Cable jointer certificate

TENDER SUBMISSION CHECK LIST

The Bidders must ensure that the details and documentation mention below must be submitted as part of their tender Bid

Tender Number _____

Tender Name _____

Full Company Business Name: _____

(Attach copy of Registration Certificate)

Director/Owner(s):_____

Postal Address:_____

Phone Contact:_____

Fax Number:_____

Email address: _____

Office Location: _____

TIN Number:_____
(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only (Mandatory)

FNPF Employer Registration Number: _____
(For Local Bidders only) (Mandatory)

Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bidders only)

Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory Local Bidders only)

Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bidders only)

Provide a copy of Valid Contractors all Risk and Public Liability Insurance (Mandatory Local Bidders only)

Provide a list of machinery, labor and previous work history (Mandatory Local Bidders only)

Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

Tender submission

Bidders are requested to upload electronic copies via Tender Link by registering their interest at: https://www.tenderlink.com/efl

EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.

This tender closes at 4.00pm (1600hrs) on Wednesday 18th June, 2025.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360 or (+679) 9992400** or email us on tenders@efl.com.fj

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act. Bidders are to clearly state the percentage of VAT that is applicable to the bid prices.

The lowest bid will not necessarily be accepted as the successful bid.

The Tender Bids particularly the "Price" must be typed and not hand written.

Any request for the extension of the closing date must be addressed to EFL in writing three (3) working days prior to the tender closing date.

Tender Submission via email or fax will not be accepted.

Appendix 1. Recommended Foundation Plan for Transformer Plinth is as Follows:

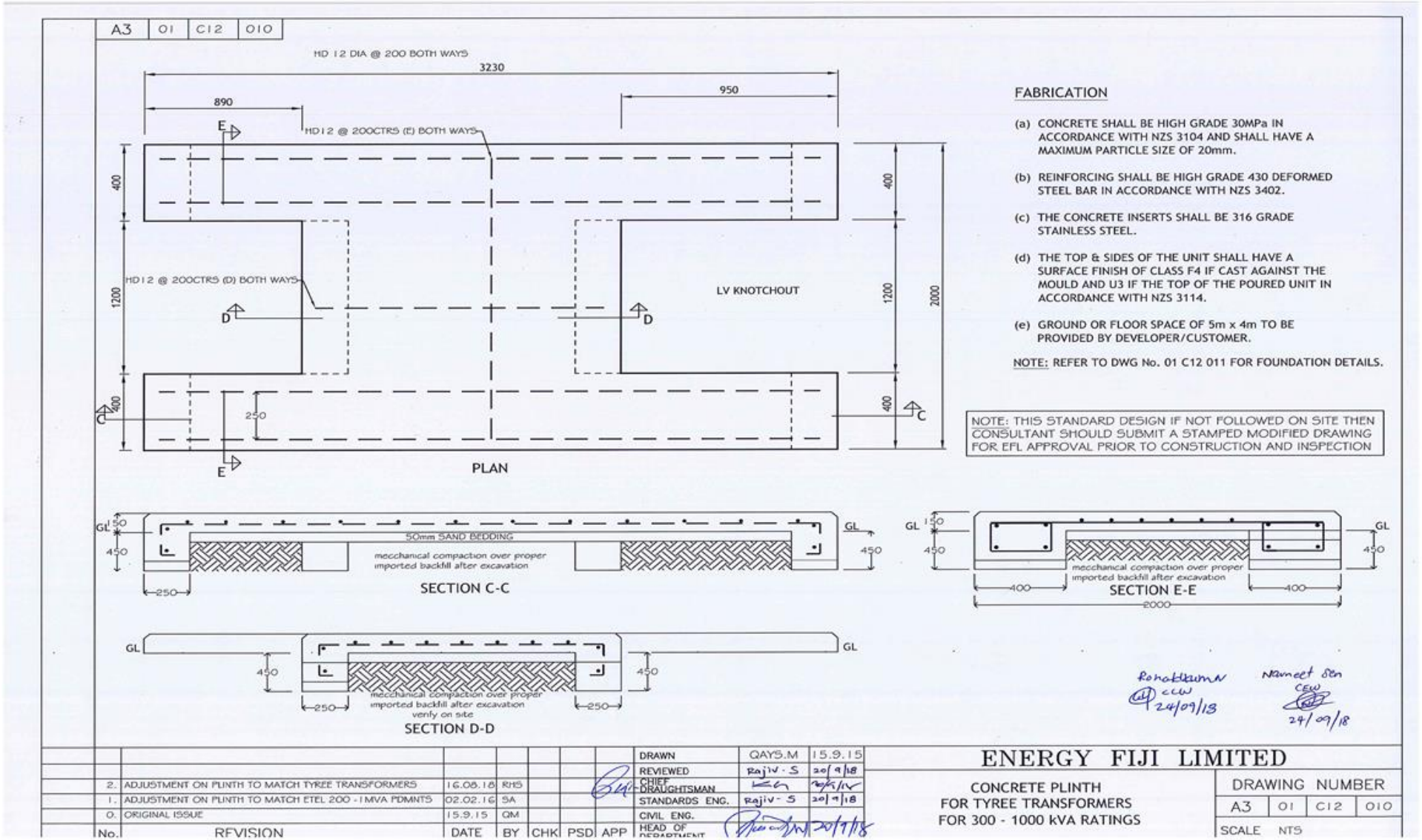

Figure 2 - Foundation plan for a standard transformer plinth

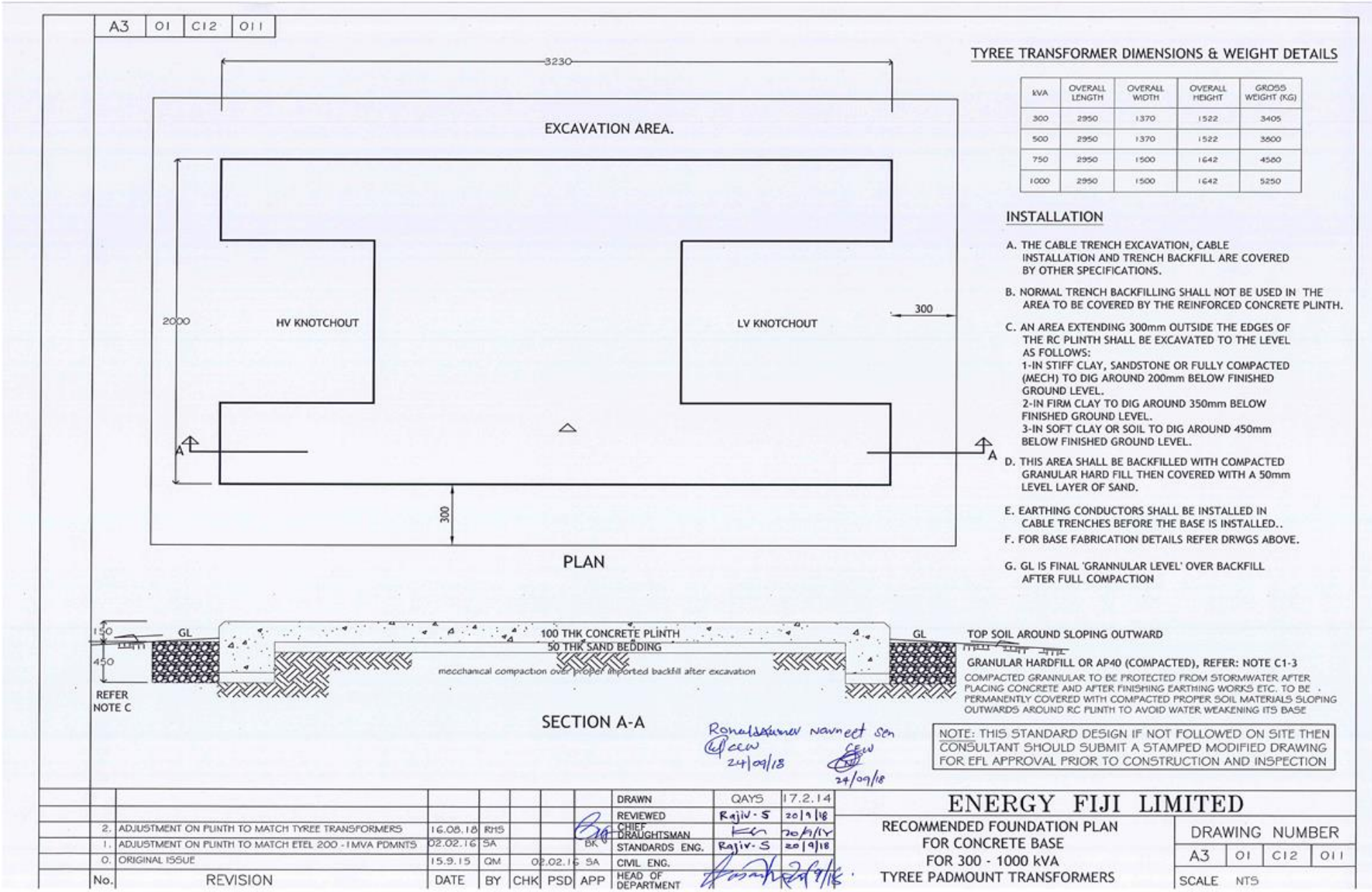

Figure 3- Foundation plan and elevation for a standard transformer plinth

Appendix 2. Recommended Foundation Plan for Switchgear Plinth is as Follows;

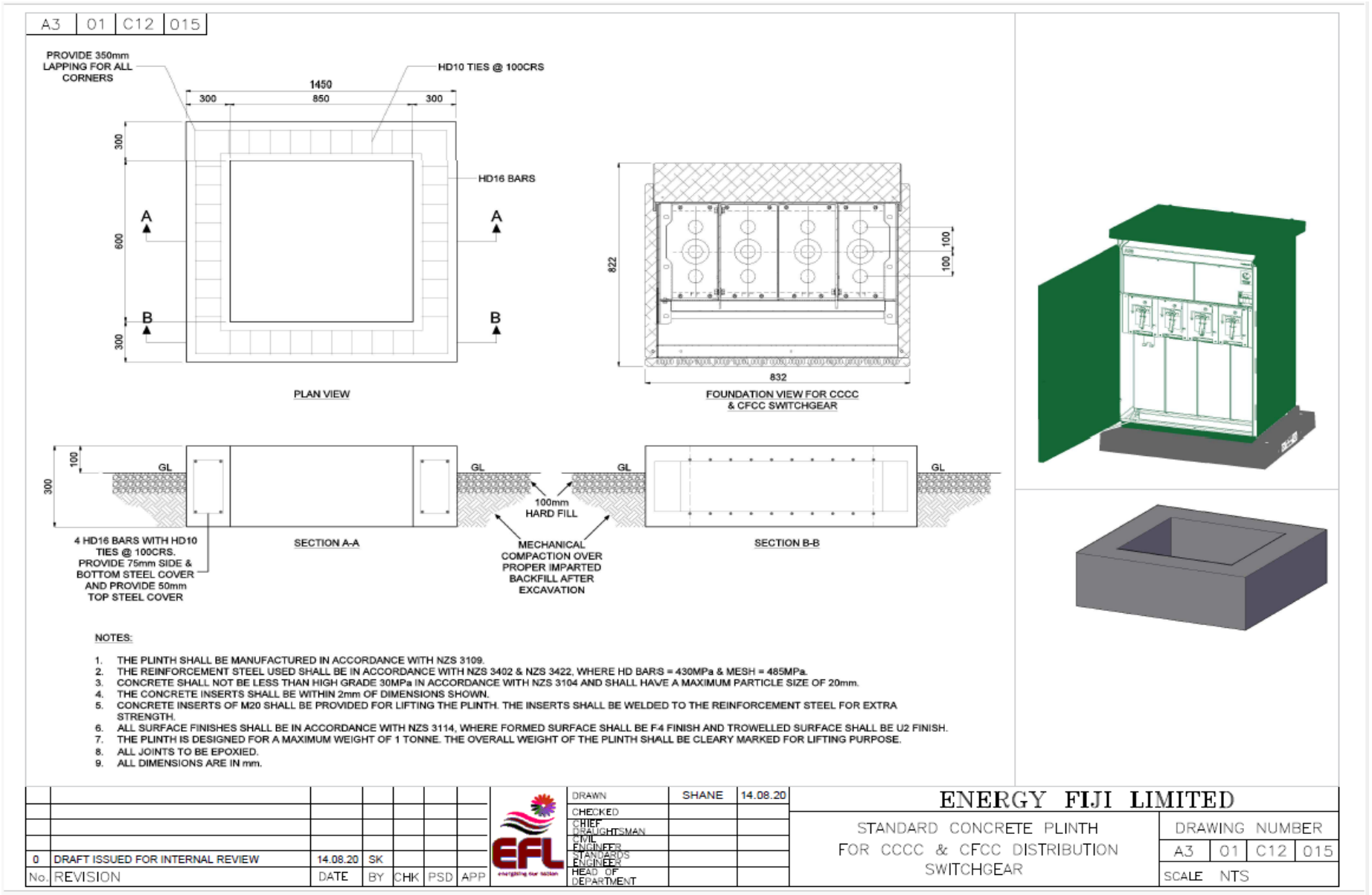

Figure 4: Foundation plan and elevation for a standard switchgear plinth

Appendix 3. Fence Construction shall be conditioned and prepared as per attached plan.

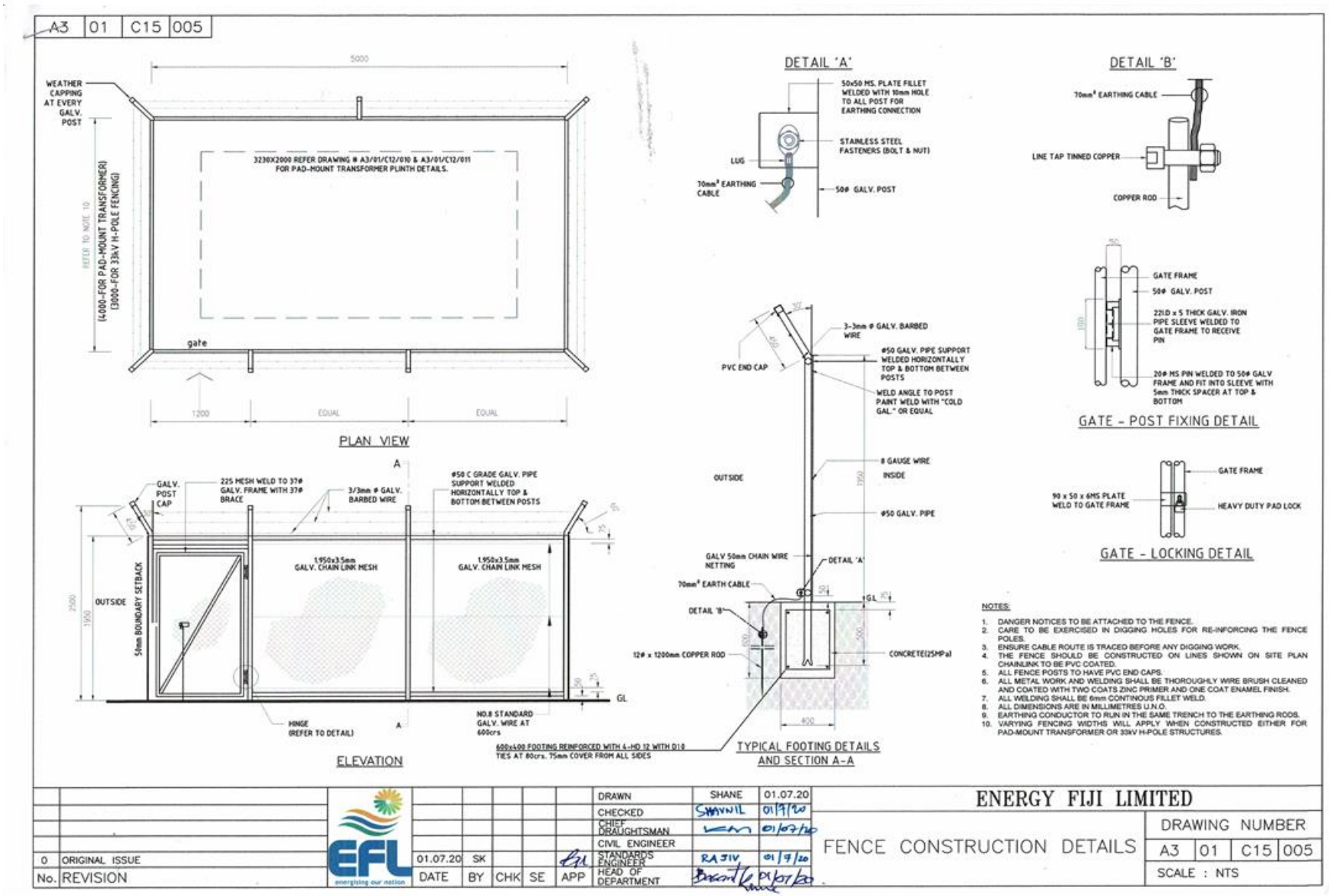

Figure 5 - Fence construction plan and elevation

Appendix 4. HV/LV Earthing Details for Padmount Transformers shall be prepared as per attached plan.

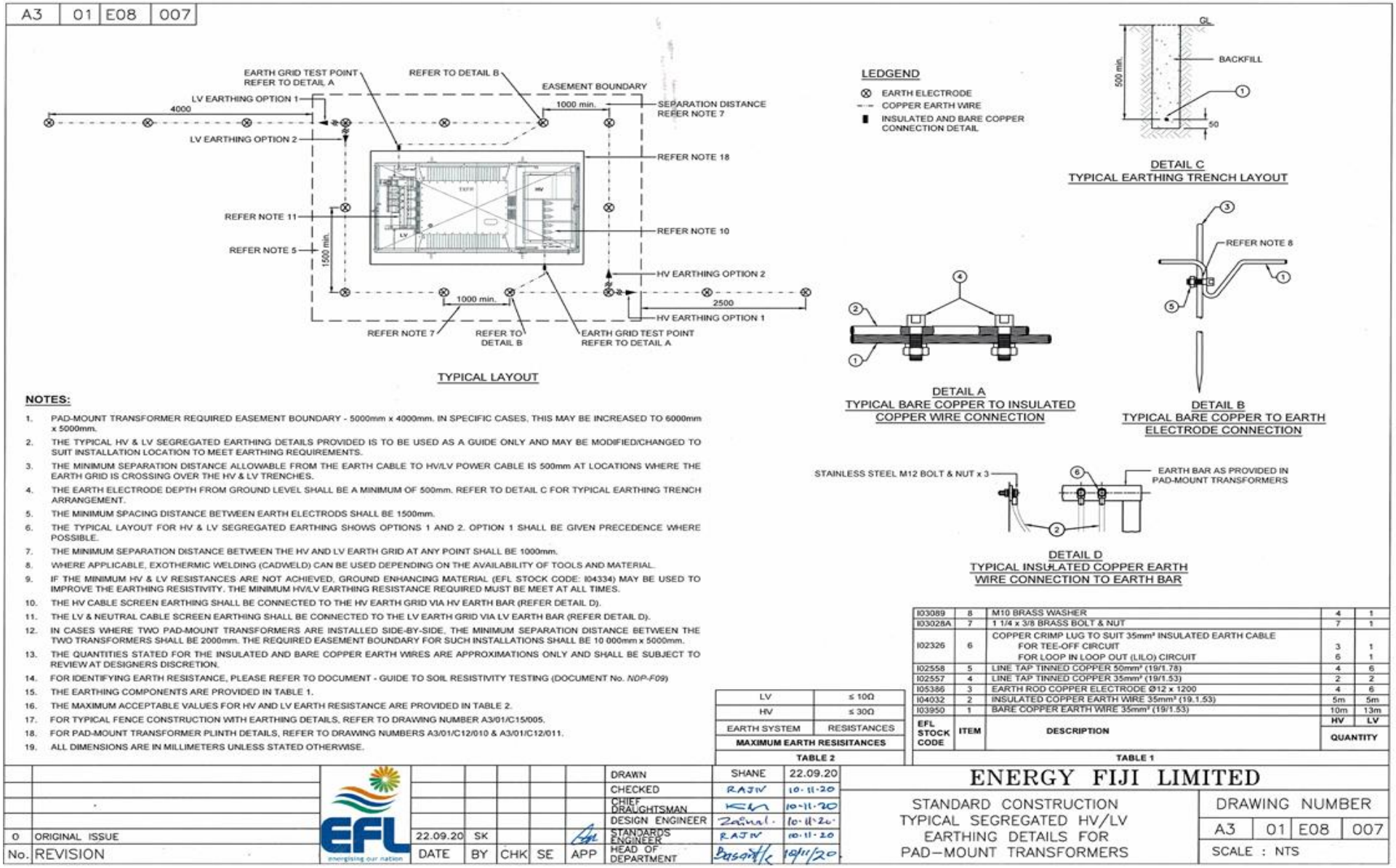

Figure 6 - HV/LV earthing details for padmount transformer

Appendix 5. All trenching of buried cables shall be prepared as per attached plan.

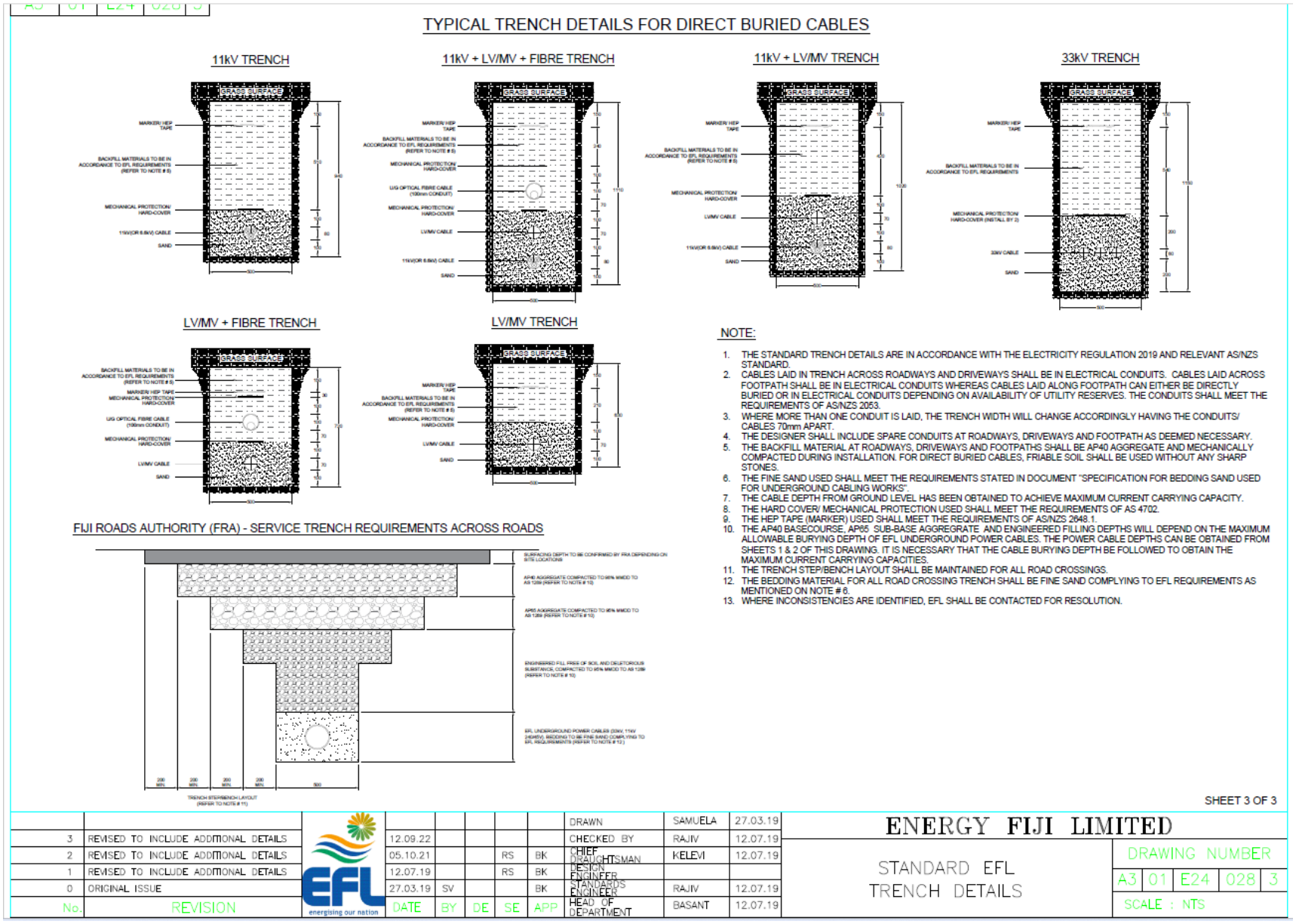

Figure 7: Trench Details