



**DELIBERASAUN N. 121/VIII/CAFI/2025**

*Conselho de Administração do Fundo das Infraestruturas – CAFI, bazeia ba artigo 10º (1) e (3) DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, realiza reuniaun Extraordinária iha loron Segunda-feira, 25 de Agosto de 2025, e halo deliberasaun ba assunto tuir mai ne'e:*

**Asuntu:** Pedidu Aprovasaun no autorizasaun despesas no konfirmasaun Finansiamentu iha FI 2025 ba Projetu New Construction Work of Wall at DNNT Posto Fronteira Batugade, Municipio Bobonaro.

**Proponente: Ministério do Transportes e Comunicações - MTC**

**Notas/justifikasaun:**

- Asuntu refere apresenta no aprova ona iha reuniaun extraordinaria CAFI iha loron Segunda-feira, 25 de Agosto de 2025;
- Bazeia ba karta ne'ebe SGP simu husi chefe Gabinete MTC no. Ref.: 383/IX-GOV/G-MTC/IX/2025, data 22 de setembro de 2025, ho asuntu pedidu atu emite deliberasaun CAFI loron 25 de agostu de 2025 kona ba aprovasaun New Construction Work of Wall DNNT Postu Fronteira Batugade
- DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projetu FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor;
- Modalidade aprovisionamento bazeia ba kustu projetu no sei lao tuir Decreto-Lei No.22/2022 de 11 de Maio;
- Resultadu verifikasiadu ADN, I.P. ho no. Ref.: 1631/ADN, I.P./VIII/2025, data 25 de agosto de 2025 ho asuntu Resultado da Verificação – New Construction Work of Wall DNNT Postu Fronteira Batugade, Municipality Bobonaro, ho montante \$102,037.63;
- Projetu New Construction Work of Wall DNNT Postu Fronteira Batugade, Municipality Bobonaro apresenta ona iha reuniaun dia 25 de agosto de 2025, no agenda hikas ba reuniaun CAFI dia 25 de setembro de 2025 ba aprovasaun no autorizasaun despezas bazeia ba montante verifikasiadu husi ADN, I.P.;
- Projetu nain sei assume responsabilidade hodi assegura orsamantu ba Ezekusaun no Implementasaun projetu;



**IX GOVERNO CONSTITUCIONAL**  
**MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO**  
**FUNDO DAS INFRAESTRUTURAS**



**Conselho de  
Administração**

- Projetu nain konfirma katak sei assume responsabilidade ba monitorizasaun e akompanhamentu ba ezekusaun projetu ne'e no sei garante kualidade servisu nian tuir padraun no espesifikasi saun ne'ebi aprova ona;
- Lista Proposta:

Naran Projeto	Resultadu Verifikasi saun ADN, I.P./referensia	Alokasaun orsamentu iha FI 2025
New Construction Work of Wall at DNTT Posto Fronteira Batugade, Municipio Bobonaro	\$102,037.63 no. Ref.: 1631/ADN, I.P./VIII/2025, data 25 de agosto de 2025	<ul style="list-style-type: none"><li>• Alokasaun FI: \$0</li><li>• Programa 502: Transportes;</li><li>• Kodigu Atividade 5020334: Construction of wall for DNTT office in Batugade</li></ul>

**Rekomendasaun:**

- 1) CAFI atu aprova no autoriza despezas no kustu total nune'e mos konfirma finansiamentu iha FI 2025 bazeia ba pedidu husi MTC;
- 2) Desizaun kona ba abertura ka inisiasi saun prosesu aprovisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
- 3) CAFI nudar orgão competente ba aprovisaun no autorizasaun despezas bazeia ba DL no. 23/2022, de 19 de maio;
- 4) DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projetu FI nian sei lao tuir Regime Jurídico Aprovizionamento em vigor;
- 5) Decreto-Lei Nº. 22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções, artigo 42º Regras Espaciais, desizaun kona ba modalidade aprovisionamentu determina bazeia ba kustu projetu no justifikasi saun tekniku no legal husi MTC hanisan entidade adjudikante;
- 6) Projetu nain sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projetu;
- 7) Projetu nain sei assume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu nian tuir espesifikasi saun nebe aprova ona;

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Pájina 2 hosi 5



**IX GOVERNO CONSTITUCIONAL**  
**MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO**  
**FUNDO DAS INFRAESTRUTURAS**



**Conselho de  
Administração**

**Desizaun:**

1. CAFI aprova no autoriza despeza no kustu total ba projetu nune'e mos konfirma finansiamentu iha FI 2025 bazeia ba pedidu husi projeto nain MTC;
2. Desizaun kona ba abertura ka inisiasaun prosesu aprovisionamentu bazeia, Artigo 24 & 25, Decreto Lei No.43/2024, de 20 de Dezembro, regra ezekusaun OGE 2025;
3. CAFI nudar orgão competente ba aprovasaun no autorizasaun despezas bazeia ba DL no. 23/2022, de 19 de maio;
4. DL N°. 25/2024, de 22 de maio, Primeira Alteração ao DL N°.13/2016, 18 de Maio, kona ba Regulamentu Fundo da Infraestrutura, determina katak aprovisionamento projetu FI nian sei lao tuir Regime Juridiku Aprovizionamento em vigor;
5. Decreto-Lei N°. 22/2022 de 11 de Maio, o regime jurídico do aprovisionamento, dos contratos públicos e das respectivas infracções, artigo 42º Regras Espaciais, desizaun kona ba modalidade aprovisionamentu determina bazeia ba kustu projetu no justifikasaun tekniku no legal husi MTC hanesan entidade adjudikante;
6. Projeto nain sei assume responsabilidade hodi assegura orsamentu ba Ezekusaun no Implementasaun projeto;
7. Projeto nain sei assume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projeto ne'e, e ba supervizaun, monitorizaun e akompanhamentu ba projeto ne'e iha faze implementasaun, e sei garante kualidade servisu nian tuir espesifikasiada nebe aprova ona;
8. Lista aprovasaun CAFI:

Naran Projeto	Verifikasiada ADN, I.P.	Alokasaun orsamentu iha FI 2025	Orgaun Kompetênti - DL No. 23/2022, 19 de Maio
New Construction Work of Wall at DNTT Posto Fronteira Batugade, Municipio Bobonaro	\$102,037.63 no. Ref.: 1631/ADN, I.P./VIII/2025, data 25 de agosto de 2025	<ul style="list-style-type: none"><li>• Alokasaun FI: \$0</li><li>• Programa 502: Transportes;</li><li>• Kodigu Atividade 5020334: Construction of wall for DNTT office in Batugade</li></ul>	<ul style="list-style-type: none"><li>• CAFI : Konfirmasasaun Finansiamentu;</li><li>• CAFI: alinea 1 (b) Artigo Artigo 5.º Competência para a autorização da despesa.</li></ul>

*M / C / F*



IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO  
FUNDO DAS INFRAESTRUTURAS



Conselho de  
Administração

Aprovado husi CAFI iha loron 25 de Agosto de 2025.

O Conselho de Administração do Fundo das Infraestruturas  
O presidente,



Gastão Francisco de Sousa

Ministro do Planeamento e Investimento Estratégico

Santina José Rodrigues Ferreira Viegas Cardoso

Ministra das Finanças  
(La Partisipa iha Reumaun)



Miguel Marques Gonçalves Manetelu

Ministro dos Transportes e Comunicações



Samuel Marçal

Ministro das Obras Públicas



IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO  
FUNDO DAS INFRAESTRUTURAS



Conselho de  
Administração

**Annexo:**



# MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES

## GABINETE DO MINISTRO

Avenida Presidente Francisco Xavier do Amaral - Caicoli, Dili, Timor-Leste  
(+670 77364453 / 77756383)



Dili, 22 de setembro de 2025

No.: 383 /IX-GOV/G-MTC/IX/2025

Hato' o ba: Excia Senhor Maurício Borges  
Diretor do Secretariado dos Grandes Projetos do Fundo das Infraestruturas SGP-FI

Asuntu: Pedidu atu emite delibera saun CAFI loron 25 Agostu 2025 konaba Aprova saun "New Construction work of Wall at DNTT Postu Fronteira Batugade, Municipality Bobonaro"

Exelénsia,

Haktuir ba Desizaun CAFI iha loron 25 fulan Agostu 2025, konaba "New Construction work of Wall at DNTT Postu Fronteira Batugade, Municipality Bobonaro", ne'ebé CAFI autoriza ona ho modalidade "Single Source", mak liu husi pedidu ida ne'e, solisita delibera saun CAFI ba desizaun mensionadu hodi bele prosede ba selebra saun kontratu husi CNA.

Dokumentus nesesarius hetan ona verifikasi saun husi ADN, no obras públikas, no valor ba projetus nian ne'e'bé verifikasi adu no rekomenda husi ADN mak \$ 102.037,63 (Rezultadu verifikasi saun ADN ho dokumentus nesesariu sira seluk iha anexu).

Konsidera ba urjensia husi projetus ida ne'e nian, mak sei apresia ba emite delibera saun desizaun CAFI nian no envia ba MTC ho karater urjente hodi bele hatutaun ba CNA ba selebra saun kontratu nian.

Ba ita boot nia atensaun no servisu hamutuk, hato' o obrigadu wain.

Kordialmente,



Asesór Polítika, Planeamentu, Relasaun Pública, Kooperasaun no Parseria



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

Dili, 25 de Agosto de 2025

Ref : 1631/ADN, I.P./VIII/2025

Para : **Sr. Constantino Ferreira Soares**  
Diretor Geral dos Transportes e Comunicações- MTC

Assunto : **Resultado da Verificação – New Construction Work of Wall at DNTT Posto Fronteira Batugade, Municipality Bobonaro**

Com os nossos Respeitos,

Com base no pedido de verificação com a referência n.º 350/DGTC/VIII/2025, datado de 04 de Agosto de 2025 relacionado ao assunto mencionado acima, informamos que a Equipa de Verificação da Unidade de Avaliação de Projetos da ADN, I.P. procedeu à análise dos documentos submetidos para apreciação. Desta forma, vimos por este meio encaminhar, em anexo, o resultado da verificação efetuada.

Agradecemos a vossa atenção e subscrevemo-nos com a mais elevada consideração.

Januario Maia Guterres  
Director Adjunto e Director Executivo Interino - ADN, I.P.





AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

## FORMULARIO DE DESPACHO

Data de Entrada Documentos : 11/08/2025

Data do Documentos : 04/08/2025

Husi : MTC - DGTC

No. Ref : 350 / DGTC / VIII / 2025

Projecto : New Construction Works of Wall at  
DNTT Postu - fronteira Batugade -  
Mota Aín

Quantidade Documentos : ..... 1

Anexo : BOQ + Desenho I

NB: SOFT COPY Anexo iha Doc  
No. Rep # 349

Assuntos :

Pedido Verifikasiun

No.Tlf :

Companhia :

Despacho :

- Unidade de Gestão Administrativa
- Unidade de Avaliação de Projectos
- Unidade de Controlo e Validação de Qualidade
- Unidade de Estudos e Desenvolvimento de Competências

Verifikasiamento  
anexo

- Adjunto
- Assessor/a
- Gabinete DE / Base de Dadus
- Other

Data : 11/08/2025

Januario Maia Guterres  
Diretor Adjunto e Diretor Executivo  
Interino ADN I.P.



MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES  
DIREÇÃO GERAL DOS TRANSPORTES E COMUNICAÇÕES  
GABINETE DO DIRECTOR GERAL

Avenida Xavier do Amaral, Cai-coli, Dili Timor Leste



Dili, 04 de Agosto de 2025

Excelentíssimo : Sr. Januario Maia Guterres  
Diretor Adjunto e Diretor Executivo Interino ADN.IP  
Ofício : 350 /DGTC/VIII/2025  
Assunto : *Pedidu Verifikasiun ba Documentos “Construir Murro da DNTT em Batugede”*

Ho respeito,

Liu husi ofício ne'e, Direção Geral Transportes e Comunicações – MTC, husu ba ekipa ADN.IP atu halo verifikasiun ba Dezeñu, BoQ no ToR ba projetu **“Construir Murro da DNTT em Batugede”**. Projetu aloka iha tinan 2025 iha Fundus Infraestrutura (FI), ho Kode Atividade **5020331**. Documentus iha anexa.

Ba ita nia kolaborasaun ami hato'o obrigado wa'in.

Ha'u nia kumprimentus,

Constantino Ferreira Soares  
2025/08/04  
MTC

Constantino Ferreira Soares

Diretor – Geral



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
Avenida 20 de Maio Dili, Timor -Leste



Hato' o ba : Exmo, Diretor Geral Transportes e Cumunicações  
Sr. Constantino Ferreira Soares

No.Ofisiu : 311 / DGHU/MOP/VIII/2025

Assunto : Entrega Dokumentos projeto “ New Construction Works of Wall at DNTT Postu Fronteira, Batugade ”

Ho respeito,

Bazeia ba karta husi Ministerio Transportes e Cumunicações , ne'ebé submete mai Diresaun Geral Habitasaun e Urbanismo hodi halo verifikasi, no hetan ona aprovasaun husi DGHU-MOP ba Revizaun projeto ho titulo“ New Construction Works of Wall at DNTT Postu Fronteira, Batugade ”. Nune'e ohin Loron Sesta – Feira, 08 de Agusto de 2025, DGHU-MOP entrega fali dokumentos ne'ebé kompleto hanesan tuir mai ne'e :

- |                            |             |
|----------------------------|-------------|
| 1. Desenho                 | : Unidade 1 |
| 2. Cost Estimation         | : Unidade 1 |
| 3. BoQ                     | : Unidade 1 |
| 4. Technical Specification | : Unidade 1 |

Diresaun Geral Habitasaun e Urbanismo- MOP husu mos ba Dono do projeto atu submete fali dokumento: Desenho, Cost Estimation, BoQ, Technical Specification, nia file moris Original, Scan no Foto Copy mai DGHU-MOP. Atu fo hatene mos katak Diresaun Nasional Edifikasiun tenki envolve iha supervizaun ba projeto ne'ebé mak hetan ona aprovasaun husi DGHU – MOP.

Mak ne'e deit ba .Exmo. Diretora Geral nia servisu hamutuk hato'o obrigado wa'in

Dili, 08 de Agusto de 2025  
  
Eng. Domingos de Jesus Sequeira  
Director Geral Habitasaun e Urbanismo- MOP

Cc:

- 1 .Diretor Nasional DNE-MOP
2. Arquivo



DIREÇÃO GERAL DE HABITAÇÃO E  
URBANISMO

Avenida Presidente Nicolau  
 Lobato, Mandarim,Dili - Timor Leste

+670 3310111



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

### CHECK LIST DOKUMENTOS BA VERIFIKASAUN

NARAN PROJECTO : *New Construction Works of Wall at DNTT Postu -  
Fronteira Batugade Mota Ain*

No	DOKUMENTOS NIA NARAN	
1.	Karta Akompanhamento Husi Projecto Nain	✓
2.	Fundo Husi : (LM <del>FL</del> PDIM)	✓
	A. Kapital de Desenvolvimento	
	B. Bens de Servico	
	C. Transferencia Public	
	D. Other :	
3.	Alokasaun Orsamento ba Sa Tinan	✓
4.	Programa Orsamento	✓
5.	TOR ou Justifikasau kona ba projetu ne'be atu implementa.	
6.	Titik Koordinat husi Projecto neébe atu implementa	
7.	Desenhu tenke iha HVS Medida A3 no hetan Aprovasaun husi Projetu Nain no Ministerio (MOP)	✓
8.	Cost Estimasaun ho BOQ Tenke Hetan Aprovasaun Husi Projectu Nain ou Ministerio (MOP)	✓
9.	Unit Price Analisis	✓
10.	Backup Quantidade	✓
11.	Spesifikasi Teknik	✓
12.	Soft Copy (BOQ iha Excel) no (Desenho iha Auto Cad) USB <i>Anexo iha DDC No. Ref 349</i>	✓
14.	Desenhu tenke Aneksu Mapa Quarry no hetan Aprovasaun husi Projetu Nain	

**Project Title** : New Construction Works of Wall at DNTT Postu Fronteira Batugede  
**Project Type** : Construction Works  
**Project Location** : Municipio Bobonaro, Batugede (*Mota-Ain*)  
**Project Owner** : Direção Nacional Transportes Terrestres (DNTT)

### S U M M A R Y

NO.	ITEM DESCRIPTION	VERIFIED BY OWNER	VERIFIED BY A DN
		AMOUNT(USD)	AMOUNT(USD)
I	PREPARATION WORK	\$ 16.748,32	\$ 8.237,71
II	EARTH WORKS	\$ 1.712,83	\$ 1.035,68
III	FOUNDATION WORKS	\$ 9.228,17	\$ 9.848,78
IV	CONCRETE WORKS	\$ 28.292,31	\$ 20.909,37
V	WALL WORKS	\$ 8.560,07	\$ 7.753,22
VI	PLASTER WORKS	\$ 11.158,07	\$ 10.169,01
VII	FINISHING WORKS	\$ 7.369,93	\$ 6.225,14
VIII	STEEL AND ALLUMINIUM WORKS	\$ 13.301,38	\$ 4.563,86
IX	PAINTING WORKS	\$ 7.348,04	\$ 6.824,87
X	ELECTRICAL WORKS	\$ 903,20	\$ 1.440,42
XI	MICELNIOS WORKS	\$ 1.500,00	\$ 1.731,00
A	TOTAL PRICE ( I + II + III + IV + V + VI + VII + VIII + IX + X + XI )	\$ 106.122,31	\$ 78.739,08
B	CONTRACTOR FEE (A x 10%)	\$ 10.612,23	\$ 7.873,91
C	OVERHEAD	\$ 5.250,00	\$ 5.550,00
D	CONTIGENCY (A x 10%)	\$ 10.612,23	\$ 7.873,91
E	CONSTRUCTION & REHABILITATION TAX (A + B + C + D) x 2%	\$ 2.439,69	\$ 2.000,74
F	GRAND TOTAL PRICE (A + B + C + D + E)	\$ 135.036,46	\$ 102.037,63

Dili, 22/Augustus/2025

Verified By :

Eng. Angelica da Costa  
 Electrical Eng. UAP - ADN, I.P.

Eng. Angelita M. de J. Cardoso  
 Civil Engineer UAP - ADN, I.P.

Checked By :

Eng. Johannes Hornay  
 Chefe Departamento do EPMETIC. UAP -  
 ADN, I.P.

Certified By :

Arch. José Fernando Liu Soares  
 Coordenador UAP - ADN, I.P.  
22/8/25

**Project Title** : New Construction Works of Wall at DNTT Posto Fronteira Batugede  
**Project Type** : Construction Works  
**Project Location** : Municipio Bobonaro, Batugede (*Mota-Ain*)  
**Project Owner** : Direção Nacional Transportes Terrestres (DNTT)

**BILL OF QUANTITY**

NO.	ITEM DESCRIPTION	VERIFIED BY OWNER				VERIFIED BY ADN				
		UNIT	QUANTITY	UNIT PRICE (USD)	TOTAL PRICE (USD)	UNIT	QUANTITY	UNIT PRICE (USD)	TOTAL PRICE (USD)	
<b>I PREPARATION WORK</b>										
1	Temporary fence of corrugated iron, 2 m high	M'	292,00	\$ 46,96	\$ 13.712,16	M'	292,00	\$ 12,85	\$ 3.752,20	
2	Provide board for project name	Ls	1,00	\$ 66,65	\$ 66,65	Ls	1,00	\$ 77,51	\$ 77,51	
3	Make barrack labor, build cement warehouse tools & site office (5 x 5 m)	M <sup>2</sup>	25,00	\$ 58,78	\$ 1.469,50	M <sup>2</sup>	25,00	\$ 116,32	\$ 2.908,00	
4	Mobilization and demobilization works	Ls	1,00	\$ 1.500,00	\$ 1.500,00	Ls	1,00	\$ 1.500,00	\$ 1.500,00	
					<b>Sub-Total I</b>	<b>\$ 16.748,32</b>			<b>Sub-Total I</b>	<b>\$ 8.237,71</b>
<b>II EARTH WORKS</b>										
1	Soil excavation with heavy equipment	M <sup>3</sup>	154,48	\$ 6,02	\$ 929,25	M <sup>3</sup>	154,48	\$ 2,83	\$ 436,51	
2	Soil backfilling of excavated area	M <sup>3</sup>	19,01	\$ 1,99	\$ 37,75	M <sup>3</sup>	19,01	\$ 1,70	\$ 32,31	
3	Sand filling 10 cm	M <sup>3</sup>	23,73	\$ 31,43	\$ 745,83	M <sup>3</sup>	23,73	\$ 23,89	\$ 566,86	
					<b>Sub-Total II</b>	<b>\$ 1.712,83</b>			<b>Sub-Total II</b>	<b>\$ 1.035,68</b>
<b>III FOUNDATION WORKS</b>										
1	Construction of Stone Masonry Foundation (1 Pc : 3 Sand)	M <sup>3</sup>	110,40	\$ 83,59	\$ 9.228,17	M <sup>3</sup>	110,40	\$ 89,21	\$ 9.848,78	
					<b>Sub-Total III</b>	<b>\$ 9.228,17</b>			<b>Sub-Total III</b>	<b>\$ 9.848,78</b>
<b>IV CONCRETE WORKS</b>										
1	Concrete f'c = 24 Mpa (K 275) for footing plate									
a	Concrete	M <sup>3</sup>	9,36	\$ 128,18	\$ 1199,80	M <sup>3</sup>	9,36	\$ 137,71	\$ 1.288,97	
b	Steel reinforcement									
Ø 12 mm		Kg	75,85	\$ 13,63	\$ 1033,83	Kg	75,85	\$ 1,62	\$ 123,10	
c	Formwork	M <sup>2</sup>	5,90	\$ 29,50	\$ 174,18	M <sup>2</sup>	5,90	\$ 17,77	\$ 104,91	
2	Concrete f'c = 24 Mpa (K 275) for pedestal colum									
a	Concrete	M <sup>3</sup>	8,75	\$ 128,18	\$ 1121,35	M <sup>3</sup>	8,75	\$ 137,71	\$ 1.204,69	
b	Steel reinforcement									
Ø 12 mm		Kg	68,33	\$ 13,63	\$ 931,38	Kg	68,33	\$ 1,62	\$ 110,91	
Ø 10 mm		Kg	20,23	\$ 13,63	\$ 275,69	Kg	20,23	\$ 1,62	\$ 32,83	
Ø 8 mm		Kg	23,38	\$ 13,63	\$ 318,71	Kg	23,38	\$ 1,62	\$ 37,95	
c	Formwork	M <sup>2</sup>	48,39	\$ 24,21	\$ 1171,59	M <sup>2</sup>	48,39	\$ 38,62	\$ 1.868,82	
3	Concrete f'c = 24 Mpa (K 275) for colum and colum variatio									
a	Concrete	M <sup>3</sup>	26,72	\$ 128,18	\$ 3425,00	M <sup>3</sup>	26,72	\$ 137,71	\$ 3.679,53	
b	Steel reinforcement									
Ø 12 mm		Kg	119,58	\$ 13,63	\$ 1629,92	Kg	119,58	\$ 1,62	\$ 194,08	
Ø 10 mm		Kg	35,40	\$ 13,63	\$ 482,46	Kg	35,40	\$ 1,62	\$ 57,45	
Ø 8 mm		Kg	51,02	\$ 13,63	\$ 695,38	Kg	51,02	\$ 1,62	\$ 82,80	
c	Formwork	M <sup>2</sup>	53,86	\$ 24,21	\$ 1304,03	M <sup>2</sup>	53,86	\$ 38,62	\$ 2.080,07	
4	Concrete f'c = 24 Mpa (K 275) for sloof									
a	Concrete	M <sup>3</sup>	37,57	\$ 128,18	\$ 4815,87	M <sup>3</sup>	37,57	\$ 137,71	\$ 5.173,76	
b	Steel reinforcement									
Ø 12 mm		Kg	206,25	\$ 13,63	\$ 2811,18	Kg	206,25	\$ 1,62	\$ 334,74	
Ø 10 mm		Kg	75,89	\$ 13,63	\$ 1034,39	Kg	75,89	\$ 1,62	\$ 123,17	
Ø 8 mm		Kg	113,26	\$ 13,63	\$ 1543,68	Kg	113,26	\$ 1,62	\$ 183,81	
c	Formwork	M <sup>2</sup>	101,53	\$ 28,40	\$ 2883,04	M <sup>2</sup>	101,53	\$ 28,99	\$ 2.943,45	
5	Concrete f'c = 24 Mpa (K 275) for floor in gate area									
a	Concrete	M <sup>3</sup>	8,64	\$ 128,18	\$ 1107,51	M <sup>3</sup>	8,64	\$ 137,71	\$ 1.189,81	
b	Steel reinforcement									
Ø 10 mm		Kg	20,00	\$ 13,63	\$ 272,53	Kg	20,00	\$ 1,62	\$ 32,45	
c	Formwork	M <sup>2</sup>	2,14	\$ 28,40	\$ 60,77	M <sup>2</sup>	2,14	\$ 28,99	\$ 62,04	
					<b>Sub-Total IV</b>	<b>\$ 28.292,31</b>			<b>Sub-Total IV</b>	<b>\$ 20.909,37</b>
<b>V WALL WORKS</b>										
1	Supply & install brick (concrete block) 40 x 20 x 10 cm, spec. 1 Pc : 4 sand	M <sup>2</sup>	568,88	\$ 14,68	\$ 8.352,69	M <sup>2</sup>	568,88	\$ 13,28	\$ 7.554,69	
2	Supply and install new wall non sliped 989 granite black color size 600 x 600 mm	M <sup>2</sup>	7,28	\$ 28,50	\$ 207,39	M <sup>2</sup>	7,28	\$ 27,28	\$ 198,53	
					<b>Sub-Total V</b>	<b>\$ 8.560,07</b>			<b>Sub-Total V</b>	<b>\$ 7.753,22</b>
<b>VI PLASTER WORKS</b>										
1	Plastering 1 Pc : 3 sand , 20 mm thick	M <sup>2</sup>	1519,36	\$ 7,30	\$ 11.086,45	M <sup>2</sup>	1519,36	\$ 6,65	\$ 10.103,74	
2	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of columns	M <sup>2</sup>	8,30	\$ 7,30	\$ 60,53	M <sup>2</sup>	8,30	\$ 6,65	\$ 55,16	
3	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of wall	M <sup>2</sup>	1,52	\$ 7,30	\$ 11,09	M <sup>2</sup>	1,52	\$ 6,65	\$ 10,11	
					<b>Sub-Total VI</b>	<b>\$ 11.158,07</b>			<b>Sub-Total VI</b>	<b>\$ 10.169,01</b>
<b>VII FINISHING WORKS</b>										
1	Render works	M <sup>2</sup>	1921,34	\$ 3,84	\$ 7.369,93	M <sup>2</sup>	1921,34	\$ 3,24	\$ 6.225,14	
					<b>Sub-Total VII</b>	<b>\$ 7.369,93</b>			<b>Sub-Total VII</b>	<b>\$ 6.225,14</b>
<b>VIII STEEL AND ALLUMINIUM WORKS</b>										
1	Supply and install new fence alluminiun hollow (SHS 50 x 50 x 1,5 mm)	M'	101,60	\$ 6,63	\$ 673,58	Kg	231,65	\$ 2,16	\$ 500,36	
2	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm)	M'	2,40	\$ 6,63	\$ 15,91	Kg	5,47	\$ 2,16	\$ 11,82	
3	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	129,20	\$ 9,64	\$ 1.244,85	Kg	233,85	\$ 2,16	\$ 505,12	
4	Supply & install frame rectangular hollow square (SHS 10 x 10 x 1 mm)	M'	797,40	\$ 5,62	\$ 4.481,39	Kg	119,61	\$ 2,16	\$ 258,36	
5	Supply and install new razor wire thickness Ø 450 mm 16 m coverage CBT-65	M'	226,00	\$ 6,63	\$ 1.497,31	M'	226,00	\$ 2,23	\$ 503,98	
<b>STEEL AND ALLUMINIUM FOR GATE</b>										
6	Supply and install new gate wheel 100 mm main gate, gate I and gate 2	Pes	25,00	\$ 16,25	\$ 406,25	Pes	25,00	\$ 10,00	\$ 250,00	
7	Supply and install new chain locks includine accessories	Pes	3,00	\$ 38,50	\$ 115,50	Pes	3,00	\$ 15,00	\$ 45,00	
8	Supply & install angle bar size 50 x 50 x 4 mm x 6 m	M'	36,00	\$ 12,95	\$ 466,31	Kg	108,36	\$ 2,16	\$ 234,06	
9	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	296,70	\$ 9,64	\$ 2.858,73	Kg	537,03	\$ 2,16	\$ 1.159,98	
10	Supply & install frame rectangular hollow square (SHS 60 x 60 x 1,5 mm)	M'	82,50	\$ 6,93	\$ 571,85	Kg	227,70	\$ 2,16	\$ 491,83	
11	Supply & install frame rectangular hollow square (SHS 30 x 30 x 1,5 mm)	M'	18,00	\$ 6,28	\$ 113,13	Kg	24,12	\$ 2,16	\$ 52,10	
12	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm)	M'	108,64	\$ 6,63	\$ 720,26	Kg	247,70	\$ 2,16	\$ 535,03	
13	Anchor bars D10 mm (deformed)	kg	10,00	\$ 13,63	\$ 136,30	kg	10,00	\$ 1,62	\$ 16,23	
					<b>Sub-Total VII</b>	<b>\$ 13.301,38</b>			<b>Sub-Total VII</b>	<b>\$ 4.563,86</b>

<b>IX</b>	<b>PAINTING WORKS</b>									
1	New wall painting (1 layer of plamir, 1 layer of primer, 2 coats cover)	M <sup>2</sup>	1921,34	\$ 3,73	\$ 7.169,78	M <sup>2</sup>	1921,34	\$ 3,44	\$ 6.609,41	
2	Painting steel surfaces with zincromate (priming)	M <sup>2</sup>	53,46	\$ 3,35	\$ 178,26	M <sup>2</sup>	53,46	\$ 4,03	\$ 215,46	
					<b>Sub-Total IX</b>	<b>\$ 7.348,04</b>			<b>Sub-Total IX</b>	<b>\$ 6.824,87</b>
<b>X</b>	<b>ELECTRICAL WORKS</b>									
1	Supply and install Philips essential 18 watt (cool daylight)	Unit	20,00	\$ 8,39	\$ 167,74	Unit	20,00	\$ 11,73	\$ 234,60	
	Garden Light Balls TO 1 DLX					Unit	20,00	\$ 22,75	\$ 455,00	
2	Supply and install MCB 32 A	Unit	1,00	\$ 50,00	\$ 50,00					
	Supply and install MCB 10 A 1 phase					Unit	1,00	\$ 10,68	\$ 10,68	
3	Supply and install wall double switch	Unit	2,00	\$ 24,75	\$ 49,50	Unit	2,00	\$ 9,87	\$ 19,74	
4	Supply and install NYMHY cable 2x2.5 mm <sup>2</sup> with conduit pipe	M'	200,00	\$ 3,18	\$ 635,96	M'	200,00	\$ 3,60	\$ 720,40	
					<b>Sub-Total X</b>	<b>\$ 903,20</b>			<b>Sub-Total X</b>	<b>\$ 1.440,42</b>
<b>XI</b>	<b>MICELNIOUS WORKS</b>									
1	Supply and install new logo acrylic and stainless embosed letter refer to detail drawing	Ls	1,00	\$ 1.500,00	\$ 1.500,00	Ls	1,00	\$ 1.731,00	\$ 1.731,00	
					<b>Sub-Total XI</b>	<b>\$ 1.500,00</b>			<b>Sub-Total XI</b>	<b>\$ 1.731,00</b>
<b>A</b>	<b>TOTAL PRICE ( I + II + III + IV + V + VI + VII + VIII + IX + X + XI + XII + XIII + IX + X + XI)</b>				<b>\$ 106.122,31</b>				<b>\$ 78.739,08</b>	



**Project Title** : New Construction Works of Wall at DNTT Postu Fronteira Batugede  
**Project Type** : Construction Works  
**Project Location** : Município Bobonaro, Batugede (*Mota-Ain*)  
**Project Owner** : Direção Nacional Transportes Terrestres (DNTT)

### O V E R H E A D

NO.	ITEM DESCRIPTION	VERIFIED BY OWNER				VERIFIED BY ADN			
		UNIT	QUANTITY	UNIT PRICE (USD)	AMOUNT (USD)	UNIT	QUANTITY	UNIT PRICE (USD)	AMOUNT (USD)
1	Site Engineer	Ls	1,00	\$ 1.500,00	\$ 1.500,00	Ls	1,00	\$ 3.000,00	\$ 3.000,00
2	Large first aid kit for site & camp	No.	1,00	\$ 500,00	\$ 500,00	No.	1,00	\$ 250,00	\$ 250,00
3	Personal workers safety equipment and protection	Ls	1,00	\$ 500,00	\$ 500,00	Ls	1,00	\$ 250,00	\$ 250,00
4	Supply electric power and water for works	Ls	1,00	\$ 1.000,00	\$ 1.000,00	Ls	1,00	\$ 300,00	\$ 300,00
5	Report & project document	Ls	1,00	\$ 250,00	\$ 250,00	Ls	1,00	\$ 250,00	\$ 250,00
6	Material sampling and testing	Ls	3,00	\$ 500,00	\$ 1.500,00	Ls	3,00	\$ 500,00	\$ 1.500,00
<b>T O T A L</b>					<b>\$ 5.250,00</b>				<b>\$ 5.550,00</b>



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
DIREÇÃO NACIONAL DE EDIFICAÇÃO

Avenida Presidente Nicolau Lobato, Mandarin - Dili. Tlf. 3310121-3310122



# COST ESTIMATION

## PROJECT TITLE

**NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE**

## PROJECT OWNER



**DIREÇÃO NACIONAL TRANSPORTES TERRESTRES (DNTT)**

## PROJECT LOCATION

**BOBONARO MUNICIPALITY**



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
Avenida Presidente Nicolau Lobato, Mandarim-Dili. Tlf. 3310111



# COST ESTIMATION

## \$ 135,036.46

### PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE

NO. ....68....DGHU/MOP/VIII/2025

### APPROVAL SHEET

APPROVED BY:

  
ENG. DOMINGOS DE JESUS SEQUEIRA  
DIRECTOR GENERAL, DGHU - MOP



**MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES**

Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste



Project Title : New Construction Works of Wall at DNTT Postu Fronteira Batugede

Project Type : Construction Works

Project Location : Municipio Bobonaro, Batugede (*Mota-Ain*)

Project Owner : Direção Nacional Transportes Terrestres (DNTT)

**SUMMARY OF COST ESTIMATION**

NO.	ITEM DESCRIPTION	UNIT PRICE (USD)
I	PREPARATION WORK	\$ 16,748.32
II	EARTH WORKS	\$ 1,712.83
III	FOUNDATION WORKS	\$ 9,228.17
IV	CONCRETE WORKS	\$ 28,292.31
V	WALL WORKS	\$ 8,560.07
VI	PLASTER WORKS	\$ 11,158.07
VII	FINISHING WORKS	\$ 7,369.93
VIII	STEEL AND ALLUMINIUM WORKS	\$ 13,301.38
IX	PAINTING WORKS	\$ 7,348.04
X	ELECTRICAL WORKS	\$ 903.20
XI	MICELNIOUS WORKS	\$ 1,500.00
A	TOTAL PRICE (I + II + III + IV + V + VI + VII + VIII + IX + X + XI)	\$ 106,122.31
B	CONTRACTOR FEE (A x 10%)	\$ 10,612.23
C	OVERHEAD	\$ 5,250.00
D	CONTIGENCY (A x 10%)	\$ 10,612.23
E	CONSTRUCTION & REHABILITATION TAX (A + B + C + D) x 2%	\$ 2,439.69
F	GRAND TOTAL PRICE (A + B + C + D + E)	\$ 135,036.46

Dili, ...../...../2025

Prepared by:

(Eng. Ronaldino da Costa Oliveira)

Technical Staff of MTC



Approved by: 30/07/2025  
(Constantino Ferreira Soares)

Director Geral Transportes e Comunicações



Certified by:  
(Maria Antónia Vitor da Costa)

Directora DNTT



Approved by:  
(Arq. Agostinho de Deus)

Director DNE

Checked by:  
6/8/25  
(Eng. Hermenegildo Guterres)  
Chefe Dep. De Edificações Públicas



**MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES**

Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste



Project Title : New Construction Works of Wall at DNTT Postu Fronteira Batugede

Project Type : Construction Works

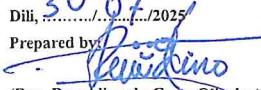
Project Location : Municipio Bobonaro, Batugede (*Mota-Ain*)

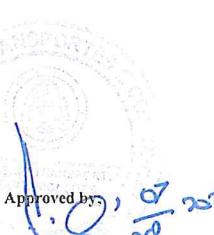
Project Owner : Direção Nacional Transportes Terrestres (DNTT)

**COST ESTIMATION**

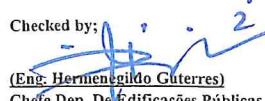
NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (USD)	TOTAL PRICE (USD)
I	<b>PREPARATION WORK</b>				
1	Temporary fence of corrugated iron, 2 m high	M <sup>1</sup>	292.00	\$ 46.96	\$ 13,712.16
2	Provide board for project name	Ls	1.00	\$ 66.65	\$ 66.65
3	Make barrack labor, build cement warehouse tools & site office (5 x 5 m)	M <sup>2</sup>	25.00	\$ 58.78	\$ 1,469.50
4	Mobilization and demobilization works	Ls	1.00	\$ 1,500.00	\$ 1,500.00
				Sub-Total I	\$ 16,748.32
II	<b>EARTH WORKS</b>				
1	Soil excavation	M <sup>3</sup>	154.48	\$ 6.02	\$ 929.25
2	Soil backfilling of excavated area	M <sup>3</sup>	19.01	\$ 1.99	\$ 37.75
3	Sand filling 10 cm	M <sup>3</sup>	23.73	\$ 31.43	\$ 745.83
				Sub-Total II	\$ 1,712.83
III	<b>FOUNDATION WORKS</b>				
1	Construction of Stone Masonry Foundation (1 Pc : 3 Sand)	M <sup>3</sup>	110.40	\$ 83.59	\$ 9,228.17
				Sub-Total III	\$ 9,228.17
IV	<b>CONCRETE WORKS</b>				
1	Concrete f <sup>c</sup> c = 24 Mpa (K 275) for footing plate				
a	Concrete	M <sup>3</sup>	9.36	\$ 128.18	\$ 1199.80
b	Steel reinforcement				
	Ø 12 mm	Kg	75.85	\$ 13.63	\$ 1033.83
c	Formwork	M <sup>2</sup>	5.90	\$ 29.50	\$ 174.18
2	Concrete f <sup>c</sup> c = 24 Mpa (K 275) for pedestal colum				
a	Concrete	M <sup>3</sup>	8.75	\$ 128.18	\$ 1121.35
b	Steel reinforcement				
	Ø 12 mm	Kg	68.33	\$ 13.63	\$ 931.38
	Ø 10 mm	Kg	20.23	\$ 13.63	\$ 275.69
	Ø 8 mm	Kg	23.38	\$ 13.63	\$ 318.71
c	Formwork	M <sup>2</sup>	48.39	\$ 24.21	\$ 1171.59
3	Concrete f <sup>c</sup> c = 24 Mpa (K 275) for colum and colum variatio				
a	Concrete	M <sup>3</sup>	26.72	\$ 128.18	\$ 3425.00
b	Steel reinforcement				
	Ø 12 mm	Kg	119.58	\$ 13.63	\$ 1629.92
	Ø 10 mm	Kg	35.40	\$ 13.63	\$ 482.46
	Ø 8 mm	Kg	51.02	\$ 13.63	\$ 695.38
c	Formwork	M <sup>2</sup>	53.86	\$ 24.21	\$ 1304.03
4	Concrete f <sup>c</sup> c = 24 Mpa (K 275) for sloof				
a	Concrete	M <sup>3</sup>	37.57	\$ 128.18	\$ 4815.87
b	Steel reinforcement				
	Ø 12 mm	Kg	206.25	\$ 13.63	\$ 2811.18
	Ø 10 mm	Kg	75.89	\$ 13.63	\$ 1034.39
	Ø 8 mm	Kg	113.26	\$ 13.63	\$ 1543.68
c	Formwork	M <sup>2</sup>	101.53	\$ 28.40	\$ 2883.04
5	Concrete f <sup>c</sup> c = 24 Mpa (K 275) for for floor in gate area				
a	Concrete	M <sup>3</sup>	8.64	\$ 128.18	\$ 1107.51
b	Steel reinforcement				
	Ø 10 mm	Kg	20.00	\$ 13.63	\$ 272.53
c	Formwork	M <sup>2</sup>	2.14	\$ 28.40	\$ 60.77
				Sub-Total IV	\$ 28,292.31

<b>V</b>	<b>WALL WORKS</b>						
1	Supply & install brick (concrete block) 40 x 20 x 10 cm, spec. 1 Pc : 4 sand	M <sup>2</sup>	568.88	\$	14.68	\$	8,352.69
2	Supply and install new wall non sliped 989 granite black color size 600 x 600 mm	M <sup>2</sup>	7.28	\$	28.50	\$	207.39
						<b>Sub-Total V</b>	<b>\$ 8,560.07</b>
<b>VI</b>	<b>PLASTER WORKS</b>						
1	Plastering 1 Pc : 3 sand, 20 mm thick	M <sup>2</sup>	1519.36	\$	7.30	\$	11,086.45
2	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of columns	M <sup>2</sup>	8.30	\$	7.30	\$	60.53
3	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of wall	M <sup>2</sup>	1.52	\$	7.30	\$	11.09
						<b>Sub-Total VI</b>	<b>\$ 11,158.07</b>
<b>VII</b>	<b>FINISHING WORKS</b>						
1	Render works	M <sup>2</sup>	1921.34	\$	3.84	\$	7,369.93
						<b>Sub-Total VII</b>	<b>\$ 7,369.93</b>
<b>VIII</b>	<b>STEEL AND ALLUMINUM WORKS</b>						
1	Supply and install new fence alluminium hollow (SHS 50 x 50 x 1,5 mm)	M'	101.60	\$	6.63	\$	673.58
2	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm)	M'	2.40	\$	6.63	\$	15.91
3	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	129.20	\$	9.64	\$	1,244.85
4	Supply & install frame rectangular hollow square (SHS 10 x 10 x 1 mm)	M'	797.40	\$	5.62	\$	4,481.39
5	Supply and install new razor wire thickness Ø 450 mm 16 m coverage CBT-65	M'	226.00	\$	6.63	\$	1,497.31
<b>STEEL AND ALLUMINUM FOR GATE</b>							
6	Supply and install new gate wheel 100 mm main gate, gate 1 and gate 2	Pcs	25.00	\$	16.25	\$	406.25
7	Supply and install new chain locks including accessories	Pcs	3.00	\$	38.50	\$	115.50
8	Supply & install angle bar size 50 x 50 x 4 mm x 6 m	M'	36.00	\$	12.95	\$	466.31
9	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	296.70	\$	9.64	\$	2,858.73
10	Supply & install frame rectangular hollow square (SHS 60 x 60 x 1,5 mm)	M'	82.50	\$	6.93	\$	571.85
11	Supply & install frame rectangular hollow square (SHS 30 x 30 x 1,5 mm)	M'	18.00	\$	6.28	\$	113.13
12	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm)	M'	108.64	\$	6.63	\$	720.26
13	Anchor bars D10 mm (deformed)	kg	10.00	\$	13.63	\$	136.30
						<b>Sub-Total VII</b>	<b>\$ 13,301.38</b>
<b>IX</b>	<b>PAINTING WORKS</b>						
1	New wall painting (1 layer of plamir, 1 layer of primer, 2 coats cover)	M <sup>2</sup>	1921.34	\$	3.73	\$	7,169.78
2	Painting steel surfaces with zincromate (priming)	M <sup>2</sup>	53.46	\$	3.33	\$	178.26
						<b>Sub-Total IX</b>	<b>\$ 7,348.04</b>
<b>X</b>	<b>ELECTRICAL WORKS</b>						
1	Supply and install Philips essential 18 watt (cool daylight)	Unit	20.00	\$	8.39	\$	167.74
2	Supply and install MCB 32 A	Unit	1.00	\$	50.00	\$	50.00
3	Supply and install wall double switch	Unit	2.00	\$	24.75	\$	49.50
4	Supply and install NYMHY cable 2x2.5 mm <sup>2</sup> with conduit pipe	M'	200.00	\$	3.18	\$	635.96
						<b>Sub-Total X</b>	<b>\$ 903.20</b>
<b>XI</b>	<b>MICELNIOUS WORKS</b>						
1	Supply and install new logo acrylic and stainless embossed letter refer to detail drawing	Ls	1.00	\$	1,500.00	\$	1,500.00
						<b>Sub-Total XI</b>	<b>\$ 1,500.00</b>
<b>A</b>	<b>TOTAL PRICE (I + II + III + IV + V + VI + VII + VIII + IX + X + XI + XII + XIII + IX + X + XI)</b>						<b>\$ 106,122.31</b>

Dili, ...../...../2025  
 Prepared by:  
  
 (Eng. Ronaldino da Costa Oliveira)  
 Technical Staff of MTC

Approved by:  
  
 (Constantino Ferreira Soares)  
 Director Geral Transportes e Comunicações



Checked by:  
  
 (Eng. Hermenegildo Guterres)  
 Chefe Dep. De Edificações Públicas



**MINISTÉRIO DOS TRANSPORTES E COMMUNICAÇÕES**

*Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste*



**Project Title** : New Construction Works of Wall at DNTT Postu Fronteira Batugede  
**Project Type** : Construction Works  
**Project Location** : Município Bobonaro, Batugede (*Mota-Ain*)  
**Project Owner** : Direção Nacional Transportes Terrestres (DNTT)

OVERHEAD					
NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (USD)	AMOUNT (USD)
1	Site Engineer	Ls	1.00	\$ 1,500.00	\$ 1,500.00
3	Large first aid kit for site & camp	No.	1.00	\$ 500.00	\$ 500.00
4	Personal workers safety equipment and protection	Ls	1.00	\$ 500.00	\$ 500.00
5	Supply electric power and water for works	Ls	1.00	\$ 1,000.00	\$ 1,000.00
6	Report & project document	Ls	1.00	\$ 250.00	\$ 250.00
7	Material sampling and testing	Ls	3.00	\$ 500.00	\$ 1,500.00
<b>TOTAL OVERHEAD</b>					<b>\$ 5,250.00</b>

Dili, ...../...../2025

Prepared by:

(Eng. Ronaldino da Costa Oliveira)  
Technical Staff MTC



(Constantino Ferreira Soares)  
Director Geral Transportes e Comunicações



Certified by:  
(Maria Antonia Vitor da Costa)  
Directora DNTT

Checked by:

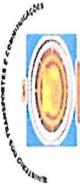
(Eng. Hermenegildo Guterres)  
Chefe Dep. De Edificações Públicas





## MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES

Avenida de Xavier do Amaral, catemaco, Dili, Timor Leste



Project Title : New Construction Works of Wall at DNTT Posto Fronteira Buitugele  
 Project Type : Construction Works  
 Project Location : Município Bobonaro, Buitugele (Mau-din)  
 Project Owner : Direção Nacional Transportes e Comunicações (DNTT)

## TIME SCHEDULE &amp; S - CURVE (SCHEDULES OF IMPLEMENTATION)

NO.	ITEM DESCRIPTION	PRICE (USD)	WEIGHT (%)	WORKING TIMES (WEEKLY)	MONTH I				MONTH II				MONTH III				MONTH IV				MONTH V				MONTH VI			
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
I	PREPARATION WORK	\$ 16,748.32	15.78	1.00	15.78																							100
II	EARTH WORKS	\$ 1,712.33	1.61	2.00	0.81	0.81																						
III	FOUNDATION WORKS	\$ 9,228.17	8.70	4.00		2.17	2.17																					
IV	CONCRETE WORKS	\$ 28,392.31	26.66	4.00																								
V	WALL WORKS	\$ 3,560.07	3.07	4.00																								
VI	PLASTER WORKS	\$ 11,158.07	10.51	4.00																								
VII	FURNISHING WORKS	\$ 7,369.93	6.94	1.00																								
VIII	STEEL AND ALUMINUM WORKS	\$ 13,501.38	12.53	1.00																								
IX	PAINTING WORKS	\$ 7,348.04	6.92	1.00																								
X	ELECTRICAL WORKS	\$ 903.20	0.85	1.00																								
XI	MICELANEOUS WORKS	\$ 1,500.00	1.41	1.00																								0
<b>TOTAL</b>		<b>\$ 106,122.31</b>	<b>100.00</b>	<b>24.00</b>	Daily Progress (%)	15.78	0.81	2.17	2.17	6.67	6.67	6.67	6.67	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	
	Works Progress Planning				Cumulative Progress (%)	15.78	16.59	17.40	19.57	21.74	23.92	26.09	32.76	39.42	52.75	54.77	56.79	58.80	60.82	63.45	66.08	68.70	71.33	78.28	80.81	97.74	98.59	100.00
	Realization				Daily Progress (%)																							
					Cumulative Progress (%)																							

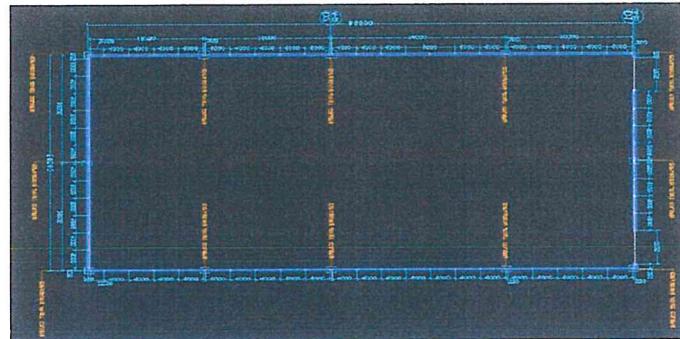
30/09/2025  
 Prepared by:  
  
 (Enio Ribeiro da Costa Oliveira)  
 Technical Staff of MTC

Checked by:  
  
 (Eng. Henrique Guterres)  
 Chef Da De Zificacões Públicas

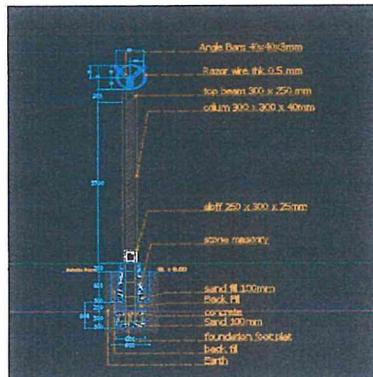


## BACK UP DATA

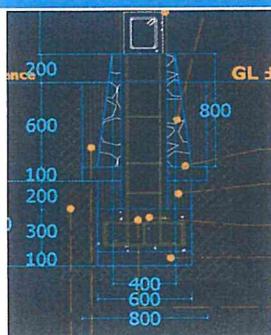
I	PREPARATION WORK				
1	Temporary fence of corrugated iron, 2 m high	54	92	54	92 292.0



II	EARTH WORKS				
1	Soil excavation				
	footing dilatation				
	lebar	panjang	tinggi	jumlah tian	
	1.25	1.25	0.65	12	12.1875
	footing normal				
	0.6	0.6	0.6	48	10.368
	footing infront				
	lebar	panjang	tinggi	jumlah tian	
	0.7	0.6	0.6	10	2.52
	foundation				
	lebar	panjang	tinggi		
	0.8	269.6	0.6		129.408
2	Soil backfilling of excavated area				
	vol soil excav=vol stone masson=soil back fill				
	129.408	110.4			19.008
3	Sand filling 10 cm				
	lebar	panjang	tinggi		
	0.8	296.6	0.1		23.728



III	FOUNDATION WORKS				
1	Construction of Stone Masonry Foundation (1 Pc : 3 Sand)	lebar A	lebar B	tinggi	panjang
		0.4	0.6	0.8	276 110.4

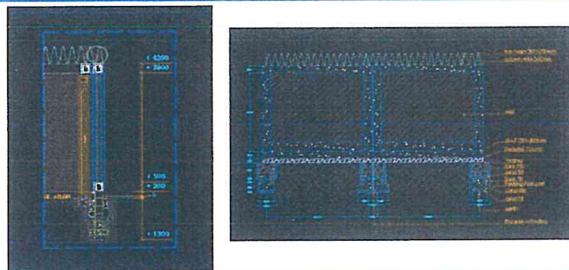


#### IV CONCRETE WORKS

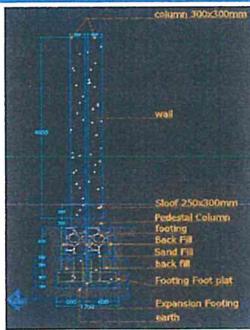
Concrete f'c = 24 Mpa (K 275) for footing plate						
Concrete	lebar	panjang	tinggi		m3	
type 1	0.7	0.6	0.3	16	2.016	
type 2	0.6	0.6	0.3	68	7.344	
					9.36	
Steel reinforcement		m/foot	total foot			
type 1		8.88	68	603.84		
type 2 infront		8.88	14	124.32		
Ø 12 mm				728.16 m		
					758.5 KG	
Formwork	0.72	82				
		59.04				



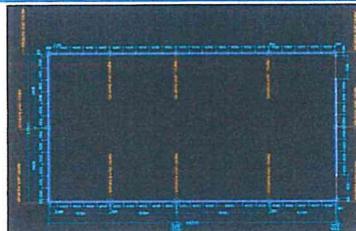
Concrete f'c = 24 Mpa (K 275) for pedestal colom						
Concrete	lebar	panjang	tinggi	banyak		
type 1	0.3	0.3	1.1	68	6.732	8.748
type 2	0.3	0.4	1.2	14	2.016	
Steel reinforcement					bj(kg/m)	
Ø 12 mm	544 m		112 m	1.04	683.333 kg	
Ø 10 mm	272 m		56 m	0.62	202.267 kg	
Ø 8 mm	m/stirrup	stirrup/cln	jmlh clmn			bj
type 1	0.98	7.33	68	488.693	599.573 m	
type 2	1.08	7.33	14	110.88	233.834 kg	
Formwork	93.84	2.94	96.78	m2		



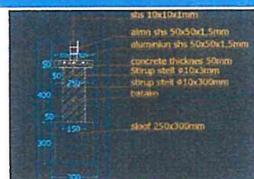
Concrete f'c = 24 Mpa (K 275) for colom						
Concrete	lebar	panjang	tinggi	banyak	m3	m3 total
type 1	0.3	0.3	3.4	68	20.808	26.52
type 2	0.3	0.4	3.4	14	5.712	
Steel reinforcement					bj(kg/m)	
Ø 12 mm	952 m		196 m	1.04167	1195.83 kg	
Ø 10 mm	476		98 m	0.61667	353.967 kg	
Ø 8 mm	m/stirrup	stirrup/cln	jmlh clmn			bj
type 1	0.98	16	68	1066.24	1308.16 m	
type 2	1.08	16	14	241.92	510.182 kg	
Formwork	97.92	5.25	4.55	107.72 m2		



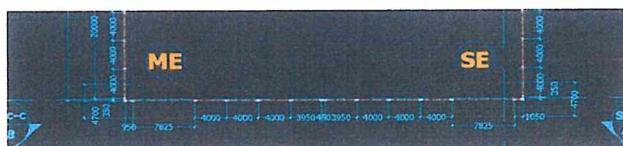
Concrete f'c = 24 Mpa (K 275) for sloof						
Concrete	lebar	panjang	tinggi	m3		
	0.25	494.6	0.3	37.095		
Steel reinforcement					bj(kg/m)	
Ø 12 mm	1980 m		1.04167	2062.5 kg		
Ø 10 mm	990 m		0.61667	610.5 kg		
Ø 8 mm	m/stirrup	stirrup/cln	jmlh clmn	1132.56 kg		
	0.88	3300	2904 m			
Formwork		297	m2			



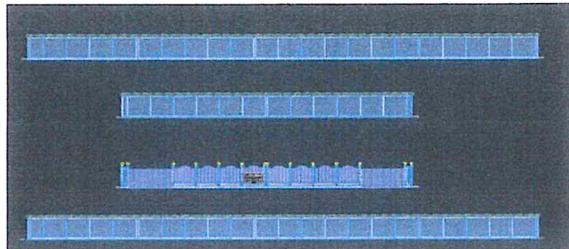
Concrete f'c = 24 Mpa (K 275) for mini sloof						
Concrete	lebar	panjang	tinggi	m3		
	0.25	38	0.05	0.475		
Steel reinforcement					kg	
Ø 10 mm	114 m		0.21	126.667	240.667 m	
Formwork		7.6	m2			



Concrete f'c = 24 Mpa (K 275) for floor in gate area						
Concrete	lebar	panjang	tinggi	m3		
	2.7	8	0.2	8.64		
Steel reinforcement						
Ø 12 mm	8m	13.5 btng	7.7	103.95 m		
	2,7m	40 btng	2.4	96 m		
				199.95 m		
Formwork		4.28				



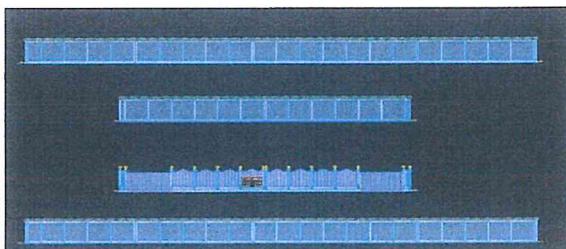
V WALL WORKS						
1 Supply & install brick (concrete block) 40 x 20 x 10 cm, spec. 1 Pc : 4 sand						
a panjang	tinggi					
228	2.4	547.2 KOTUK NO SORIN-SORIN				
p klm						
b panjang	15	568.878 m2				
32	0.45	14.4 PARTE OIN				
p klm						
panjang	2					
3.55	2.05	7.2775 HAKERK NARAN				
panjang	tinggi					



2 Supply and install new wall non slipped 989 granite black color size 600 x 600						
panjang	tinggi					

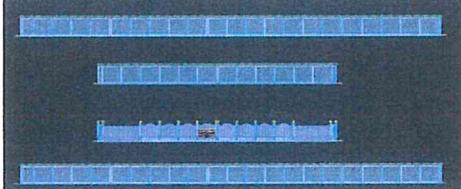
3.55                    2.05      7.2775 m2

VI PLASTER WORKS						
1 Plastering 1 Pc : 3 sand, 20 mm thick						
KOTUK NO SORIN-SORIN						
panjang	tinggi					
456	4	total				
19.8	0.6	kolumn				
436.2	3.4	1483.08				
OIN						
2 panjang	tinggi					
64	0.45	28.8	1519.36 m2			
0.55	3.4	7.48				

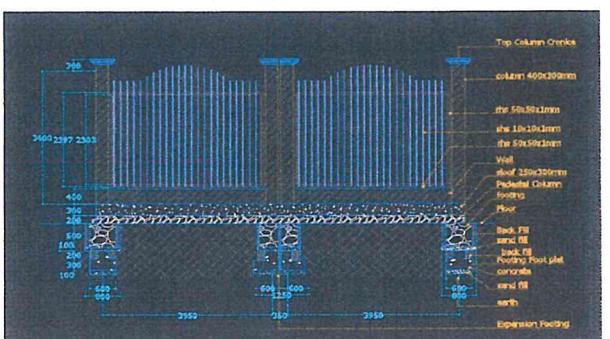


3 Rough plastering 1 pc : 4 sand (thick 10 mm) for variation of columns						
panjang	tinggi	ttl klm				
0.25	2.37	14	8.295 m2			
Rough plastering 1 pc : 4 sand (thick 10 mm) for variation of wall						
panjang	tinggi					
0.1	7.6	2	1.52 m2			

VII FINISHING WORKS						
1 Render works						
panjang	tinggi					
456	4	1824	1921.34 m2			
panjang	tinggi					
64.8	0.8	51.84				
kolumn in front						
1.4	3.25	10	45.5			

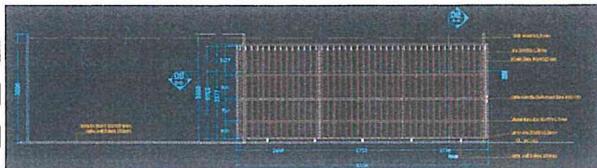


VIII STEEL AND ALLUMINUM WORKS						
1 Supply and install new fence alluminium hollow SHS 50 x 50 x 1.5 mm						
2	64	m				
	37.6	m				
	101.6	m				
3 Supply & install frame rectangular hollow square (SHS 50 x 50 x 2 mm)						
	2.4	m <sup>3</sup>				
4 Supply & install angle bar size 40 x 40 x 3 mm x 6 m						
1.9	68	129.2 M				
5 Supply & install frame rectangular hollow square (SHS 10 x 10 x 1 mm)						
756	M	41.4	m	797.4	M	
8 Supply & install razor wire 4 mm						
	226	m				



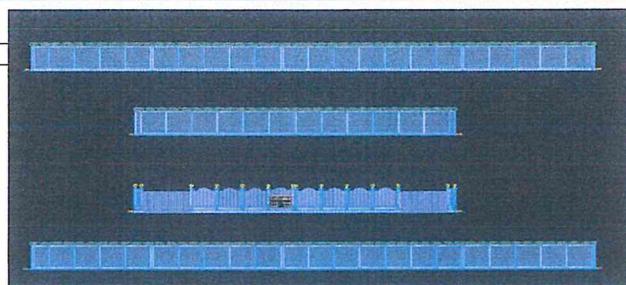
STEEL AND ALLUMINUM FOR GATE

9	Supply & install angle bar size 50 x 50 x 4 mm x 6 m 36 m
10	Supply & install angle bar size 40 x 40 x 3 mm x 6 m 296.7 m
11	Supply & install frame rectangular hollow square (SHS 60 x 60 x 1,5 mm) 82.5 m
12	Supply & install frame rectangular hollow square (SHS 30 x 30 x 1,5 mm) 18 m
13	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm) 108.64 m



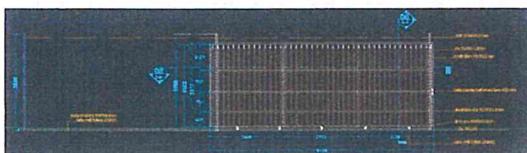
IX PAINTING WORKS

1	New wall painting (1 layer of plamir, 1 layer of primer, 2 coats cover)
panjang	tinggi
456	4
panjang	tinggi
64.8	0.8
kolom infront	
1.4	3.25
	10
	45.5



2 Painting steel surfaces with zincromate (priming)

panjang	tinggi
area to be paint	
50x50	104
10x10	41.4
ang 40x40x3	129.2
	20.8
	1.656
	53.464 m2
	31.008



X ELECTRICAL WORKS

3	Supply and install MCB 16 A
5	Supply and install wall double switch
6	Supply and install NYMHY cable 2x2.5 mm 2 70 50 80 200 m

XII MICELNIOUS WORKS

No.	ACTIVITIES				Unit Rate (USD)	Amount (USD)
	Coefficient	Description of works				
1	1 M	Temporary Fence of Corrugated Iron, 2 m high				
A	<b>Material</b>					
1	2.5000	Kg	Portland Cement	\$ 0.12	\$ 0.30	
2	1.2158	Sheet	0.2 Corrugated Iron	\$ 4.43	\$ 5.38	
3	0.0050	M3	Concrete Sand	\$ 23.95	\$ 0.12	
4	0.0090	M3	Aggregate	\$ 58.88	\$ 0.53	
5	0.0410	M3	Wooden Rafters 5/7	\$ 821.10	\$ 33.67	
6	0.0829	Kg	Common Nail 2" - 5"	\$ 2.28	\$ 0.19	
				<b>Sub Total A</b>	\$ 40.18	
B	<b>Labor</b>					
1	0.2495	Day	Unskilled Labor	\$ 8.00	\$ 2.00	
2	0.2858	Day	Carpenter	\$ 14.00	\$ 4.00	
3	0.0200	Day	Skilled Head	\$ 14.00	\$ 0.28	
4	0.0200	Day	Foreman	\$ 15.00	\$ 0.30	
5	3.0000	%	PPE & Equipment	\$	\$ 0.20	
				<b>Sub Total B</b>	\$ 6.77	
				<b>Total Unit Price (A + B)</b>	\$ 46.96	
6	1.00	Piece Installation of Project Signage				
A	<b>Material</b>					
1	1.0000	Piece	Project Name Plate	\$ 44.23	\$ 44.23	
2	0.0235	M3	5/7 Wooden Rafter	\$ 821.10	\$ 19.30	
3	0.1665	Kg	Common Nail 2"-5"	\$ 2.28	\$ 0.38	
				<b>Sub Total A</b>	\$ 63.90	
B	<b>Labor</b>					
1	0.2503	Day	Unskilled Labor	\$ 8.00	\$ 2.00	
2	0.0443	Day	Foreman	\$ 15.00	\$ 0.66	
3	3.0000	%	PPE & Equipment	\$	\$ 0.08	
				<b>Sub Total B</b>	\$ 2.75	
				<b>Total Unit Price (A + B)</b>	\$ 66.65	
7	1 M <sup>2</sup>	Make Barrack Labor				
A	<b>Material</b>					
1	0.3000	Kg	Nail 2"-5"	\$ 2.28	\$ 0.68	
2	18.0000	Kg	Portland Cement	\$ 0.12	\$ 2.15	
3	0.0300	M3	Concrete Sand	\$ 23.95	\$ 0.72	
4	0.0500	M3	Aggregate	\$ 58.88	\$ 2.94	
5	1.5401	Sheet	Corrugated BJLS 28	\$ 4.66	\$ 7.17	
6	0.5883	Sheet	Plywood 4 mm	\$ 7.44	\$ 4.38	
				<b>Sub Total A</b>	\$ 18.04	
B	<b>Labor</b>					
1	1.0000	Day	Unskilled Labor	\$ 8.00	\$ 8.00	
2	2.0000	Day	Carpenter	\$ 14.00	\$ 28.00	
3	0.2000	Day	Skilled Head	\$ 14.00	\$ 2.80	
4	0.0500	Day	Foreman	\$ 15.00	\$ 0.75	
5	3.0000	%	PPE & Equipment	\$	\$ 1.19	
				<b>Sub Total A</b>	\$ 40.74	
				<b>Total Unit Price (A + B)</b>	\$ 58.78	
1	1 M <sup>3</sup>	Ordinary Soil Excavation of 1 Meter Depth				
B	<b>Labor</b>					
1	0.6700	Day	Unskilled Labor	\$ 8.00	\$ 5.36	
2	0.0320	Day	Foreman	\$ 15.00	\$ 0.48	
3	3.0000	%	PPE & Equipment	\$	\$ 0.18	
				<b>Sub Total B</b>	\$ 6.02	
				<b>Total Unit Price B</b>	\$ 6.02	
9	1 M <sup>3</sup>	Backfilling of Excavated Area				
B	<b>Labor</b>					
1	0.2142	Day	Unskilled Labor	\$ 8.00	\$ 1.71	
2	0.0143	Day	Foreman	\$ 15.00	\$ 0.21	
3	3.0000	%	PPE & Equipment	\$	\$ 0.06	
				<b>Sub Total A</b>	\$ 1.99	
				<b>Total Unit Price B</b>	\$ 1.99	
11	1 M <sup>3</sup>	Sand Filling				
A	<b>Material</b>					
1	1.2000	M3	Filled Sand	\$ 23.95	\$ 28.75	
				<b>Sub Total A</b>	\$ 28.75	

Construction of Stone Masonry Foundation (1 Pc : 3 Sand)						
B	<b>Labor</b>					
1	0.3023	Day	Unskilled Labor	\$ 8.00	\$ 2.42	
2	0.0127	Day	Foreman	\$ 15.00	\$ 0.19	
3	3.0000	%	PPE & Equipment		\$ 0.08	
				Sub Total A	\$ 2.69	
				Total Unit Price (A + B)	\$ 31.43	
Concrete f'c = 24 Mpa (K 275)						
A	<b>Material</b>					
1	1.1490	M3	Stone Masondry 15/20 cm	\$ 26.83	\$ 30.83	
2	202.0000	Kg	Portland Cement	\$ 0.12	\$ 24.09	
3	0.4850	M3	Sand	\$ 10.00	\$ 4.85	
B	<b>Labor</b>					
1	1.5000	Oh	Unskilled Labor	\$ 8.00	\$ 12.00	
2	0.6000	Oh	Stonemason	\$ 14.00	\$ 8.40	
3	0.0910	Oh	Skilled Head	\$ 14.00	\$ 1.27	
4	0.0970	Oh	Foreman	\$ 15.00	\$ 1.46	
5	3.0000	%	PPE & Equipment		\$ 0.69	
22	1 M <sup>3</sup>	Concrete f'c = 24 Mpa (K 275)				\$ 128.18
A	<b>Material</b>					
1	412.0000	Kg	Portland Cement	\$ 0.12	\$ 49.13	
2	0.7800	M3	Aggregate	\$ 58.88	\$ 45.93	
3	0.5560	M3	Concrete Sand	\$ 23.95	\$ 13.32	
B	<b>Labor</b>					
1	1.6820	Day	Unskilled Labor	\$ 8.00	\$ 13.46	
2	0.3125	Day	Stonemason	\$ 14.00	\$ 4.38	
3	0.0500	Day	Skilled Head	\$ 14.00	\$ 0.70	
4	0.0500	Day	Foreman	\$ 14.00	\$ 0.70	
5	3.0000	%	PPE & Equipment	\$ 15.00	\$ 0.58	
1	10 Kg	Steel Reinforcement				\$ 13.63
A	<b>Material</b>					
1	10.5000	Kg	Steel Reinforced	\$ 1.05	\$ 10.98	
2	0.1500	Kg	Concrete Wire	\$ 1.84	\$ 0.28	
B	<b>Labor</b>					
1	0.0949	Day	Unskilled Labor	\$ 8.00	\$ 0.76	
2	0.0757	Day	Blacksmith	\$ 14.00	\$ 1.06	
3	0.0109	Day	Skilled Head	\$ 14.00	\$ 0.15	
4	0.0223	Day	Foreman	\$ 15.00	\$ 0.33	
5	3.0000	%	PPE & Equipment		\$ 0.07	
2	1 M <sup>2</sup>	Formwork for Foundation				\$ 29.50
A	<b>Material</b>					
1	0.0329	M3	Wood Class III	\$ 610.65	\$ 20.09	
2	0.1586	Kg	Nail 5'- 10'	\$ 2.88	\$ 0.46	
3	0.0168	Ltr	Formwork Oil	\$ 8.63	\$ 0.14	
B	<b>Labor</b>					
1	0.5200	Day	Unskilled Labor	\$ 8.00	\$ 4.16	
2	0.2600	Day	Carpenter	\$ 14.00	\$ 3.64	
3	0.0260	Day	Skilled Head	\$ 14.00	\$ 0.36	
4	0.0260	Day	Foreman	\$ 15.00	\$ 0.39	
5	3.0000	%	PPE & Equipment		\$ 0.26	
4	1 M <sup>2</sup>	Formwork for Columns				\$ 24.21
A	<b>Material</b>					
1	0.0400	M3	Wood Class III	\$ 150.00	\$ 6.00	
2	0.4000	Kg	Nail 5'-12'	\$ 1.00	\$ 0.40	
3	0.0555	Liter	Formwork Oil	\$ 8.63	\$ 0.48	
4	0.0150	M3	Wooden Beams Class II	\$ 200.00	\$ 3.00	
5	0.3500	Sheet	9 mm Thick Plywood	\$ 9.00	\$ 3.15	
6	2.0000	Piece	Dolken Wood 8"-10"/4 m	\$ -	\$ -	
B	<b>Labor</b>					
1	0.6600	Day	Unskilled Labor	\$ 8.00	\$ 5.28	
2	0.3300	Day	Carpenter	\$ 14.00	\$ 4.62	
3	0.0330	Day	Skilled Head	\$ 14.00	\$ 0.46	
4	0.0330	Day	Foreman	\$ 15.00	\$ 0.50	
5	3.0000	%	PPE & Equipment		\$ 0.33	
6	1 M <sup>2</sup>	Formwork for Floor				\$ 28.40

Formwork for Beams						
A		Material				
1	0.0400	M3	Wood Class III	\$	150.00	\$ 6.00
2	0.4000	Kg	Nail 5'-12'	\$	1.00	\$ 0.40
3	0.0536	Liter	Formwork Oil	\$	8.63	\$ 0.46
4	0.0360	M3	Wooden Beams Class II	\$	200.00	\$ 7.20
5	0.3500	Sheet	9 mm Thick Plywood	\$	9.00	\$ 3.15
6	2.0000	Piece	Dolken Wood 8"-10"/4 m	\$	-	\$ -
B		Labor				
1	0.6600	Day	Unskilled Labor	\$	8.00	\$ 5.28
2	0.3300	Day	Carpenter	\$	14.00	\$ 4.62
3	0.0330	Day	Skilled Head	\$	14.00	\$ 0.46
4	0.0330	Day	Foreman	\$	15.00	\$ 0.50
5	3.0000	%	PPE & Equipment	\$		\$ 0.33
5	1 M <sup>2</sup>		Formwork for Beams			\$ 28.40
A		Material				
1	0.0400	M3	Wood Class III	\$	150.00	\$ 6.00
2	0.4000	Kg	Nail 5'-12'	\$	1.00	\$ 0.40
3	0.0536	Liter	Formwork Oil	\$	8.63	\$ 0.46
4	0.0360	M3	Wooden Beams Class II	\$	200.00	\$ 7.20
5	0.3500	Sheet	9 mm Thick Plywood	\$	9.00	\$ 3.15
6	2.0000	Piece	Dolken Wood 8"-10"/4 m	\$	-	\$ -
B		Labor				
1	0.6600	Day	Unskilled Labor	\$	8.00	\$ 5.28
2	0.3300	Day	Carpenter	\$	14.00	\$ 4.62
3	0.0330	Day	Skilled Head	\$	14.00	\$ 0.46
4	0.0330	Day	Foreman	\$	15.00	\$ 0.50
5	3.0000	%	PPE & Equipment	\$		\$ 0.33
6	1 M <sup>2</sup>		Formwork for Floor			\$ 28.40
A		Material				
1	0.0400	M3	Wood Class III	\$	150.00	\$ 6.00
2	0.4000	Kg	Nail 5'-12'	\$	1.00	\$ 0.40
3	0.0536	Liter	Formwork Oil	\$	8.63	\$ 0.46
4	0.0360	M3	Wooden Beams Class II	\$	200.00	\$ 7.20
5	0.3500	Sheet	9 mm Thick Plywood	\$	9.00	\$ 3.15
6	2.0000	Piece	Dolken Wood 8"-10"/4 m	\$	-	\$ -
B		Labor				
1	0.6600	Day	Unskilled Labor	\$	8.00	\$ 5.28
2	0.3300	Day	Carpenter	\$	14.00	\$ 4.62
3	0.0330	Day	Skilled Head	\$	14.00	\$ 0.46
4	0.0330	Day	Foreman	\$	15.00	\$ 0.50
5	3.0000	%	PPE & Equipment	\$		\$ 0.33
1	1 M <sup>2</sup>		Installing Brick (Concrete Block) 40x20x10 cm, spec. 1 Pc : 4 Sand			\$ 14.68
A		Material				
1	12.5000	Piece	Brick/Concrete Block	\$	0.61	\$ 7.62
2	12.0000	Kg	Portland Cement	\$	0.12	\$ 1.43
3	0.0380	M3	Sand	\$	10.00	\$ 0.38
B		Labor				
1	0.3518	Day	Unskilled Labor	\$	8.00	\$ 2.81
2	0.1131	Day	Stonemason	\$	14.00	\$ 1.58
3	0.0193	Day	Skilled Head	\$	14.00	\$ 0.27
4	0.0288	Day	Foreman	\$	15.00	\$ 0.43
5	3.0000	%	PPE & Equipment	\$		\$ 0.15
9	1 M <sup>2</sup>		Installing of Ceramic Floor Tile Size 60x60 cm			\$ 28.50
A		Material				
1	3.0000	Piece	Ceramics	\$	4.76	\$ 14.27
2	8.0000	Kg	Portland Cement	\$	0.12	\$ 0.95
3	0.0450	M3	Sand	\$	23.95	\$ 1.08
4	0.9320	Kg	Cement Color	\$	0.36	\$ 0.33
B		Labor				
1	0.7000	Day	Unskilled Labor	\$	8.00	\$ 5.60
2	0.3500	Day	Stonemason	\$	14.00	\$ 4.90
3	0.0350	Day	Skilled Head	\$	14.00	\$ 0.49
4	0.0350	Day	Foreman	\$	15.00	\$ 0.53
5	3.0000	%	PPE & Equipment	\$		\$ 0.35
4	1 M <sup>2</sup>		Plastering 1 PC : 3 Sand, 20 mm Thick			\$ 7.30
A		Material				
1	10.3500	Kg	Portland Cement	\$	0.12	\$ 1.23

2	0.0310	M3	Sand	\$	10.00	\$	0.31
<b>B Labor</b>							
1	0.3500	Day	Unskilled Labor	\$	8.00	\$	2.80
2	0.1500	Day	Stonemason	\$	14.00	\$	2.10
3	0.0200	Day	Skilled Head	\$	14.00	\$	0.28
4	0.0270	Day	Foreman	\$	15.00	\$	0.41
5	3.0000	%	PPE & Equipment			\$	0.17
4	1 M <sup>2</sup>	Render Works				\$	3.84
<b>A Material</b>							
1	3.4990	Kg	Portland Cement	\$	0.12	\$	0.42
<b>B Labor</b>							
1	0.1750	Day	Unskilled Labor	\$	8.00	\$	1.40
2	0.1060	Day	Stonemason	\$	14.00	\$	1.48
3	0.0150	Day	Skilled Head	\$	14.00	\$	0.21
4	0.0150	Day	Foreman	\$	15.00	\$	0.23
5	3.0000	%	PPE & Equipment			\$	0.10
 <b>24 1 M'</b> Supply & Install alluminium for ladder Shs 60 x 60 x 1.5 mm							
<b>A Material</b>							
1	1.0000	M'	Alluminium for ladder rhs 60 x 40 x 1.5 mm	\$	1.74	\$	1.74
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)				
<b>B Labor</b>							
1	0.2500	Day	Unskilled Labor	\$	8.00	\$	2.00
2	0.2500	Day	Blacksmith	\$	10.00	\$	2.50
3	0.0250	Day	Skilled Head	\$	14.00	\$	0.35
4	0.0130	Day	Foreman	\$	15.00	\$	0.20
5	3.0000	%	PPE & Equipment			\$	0.15
24	1 M'	Supply & Install alluminium for ladder Shs 50 x 50 x 1.5 mm				\$	6.63
<b>A Material</b>							
1	1.0000	M'	Alluminium for ladder rhs 60 x 40 x 1.5 mm	\$	1.43	\$	1.43
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)				
<b>B Labor</b>							
1	0.2500	Day	Unskilled Labor	\$	8.00	\$	2.00
2	0.2500	Day	Blacksmith	\$	10.00	\$	2.50
3	0.0250	Day	Skilled Head	\$	14.00	\$	0.35
4	0.0130	Day	Foreman	\$	15.00	\$	0.20
5	3.0000	%	PPE & Equipment			\$	0.15
24	1 M'	Supply & Install new razor wire thickness Ø 450 mm 16 m coverage CBT-65				\$	6.63
<b>A Material</b>							
1	1.0000	M'	Alluminium for ladder rhs 60 x 40 x 1.5 mm	\$	0.40	\$	0.40
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)				
<b>B Labor</b>							
1	0.2500	Day	Unskilled Labor	\$	8.00	\$	2.00
2	0.2500	Day	Blacksmith	\$	14.00	\$	3.50
3	0.0250	Day	Skilled Head	\$	14.00	\$	0.35
4	0.0130	Day	Foreman	\$	15.00	\$	0.20
5	3.0000	%	PPE & Equipment			\$	0.18
24	1 M'	Supply & Install aluminium for ladder Shs 10 x 10 x 1 mm				\$	6.97
<b>A Material</b>							
1	1.0000	M'	Alluminium for ladder rhs 60 x 40 x 1.5 mm	\$	0.74	\$	0.74

2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)		
<b>B Labor</b>					
1	0.2500	Day	Unskilled Labor	\$ 8.00	\$ 2.00
2	0.2500	Day	Blacksmith	\$ 14.00	\$ 3.50
3	0.0250	Day	Skilled Head	\$ 14.00	\$ 0.35
4	0.0130	Day	Foreman	\$ 15.00	\$ 0.20
5	3.0000	%	PPE & Equipment	\$	0.18
24	1 M'	Supply & Install alluminium for ladder rhs 30 x 30 x 1.5 mm			\$ 6.28
<b>A Material</b>					
1	1.0000	M'	Alluminium for ladder rhs 60 x 40 x 1.5 mm	\$ 1.09	\$ 1.09
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)		
<b>B Labor</b>					
1	0.2500	Day	Unskilled Labor	\$ 8.00	\$ 2.00
2	0.2500	Day	Blacksmith	\$ 10.00	\$ 2.50
3	0.0250	Day	Skilled Head	\$ 14.00	\$ 0.35
4	0.0130	Day	Foreman	\$ 15.00	\$ 0.20

5	3.0000	%	PPE & Equipment	\$	0.15
22	1 M'	Supply & Install angle bar size 50 x 50 x 4 mm x 6 m		\$	12.95
A	Material				
1	1.0000	M'	Angle bar size 50 x 50 x 4 mm x 6 m	\$	4.98
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)	\$	1.74
B	Labor				
1	0.2500	Day	Unskilled Labor	\$	8.00
2	0.2500	Day	Blacksmith	\$	14.00
3	0.0250	Day	Skilled Head	\$	14.00
4	0.0130	Day	Foreman	\$	15.00
5	3.0000	%	PPE & Equipment	\$	0.18
21	1 M'	Supply & Install angle bar 40/40 x 3 mm x 6 m		\$	8.61
A	Material				
1	1.0000	M'	Square Hollow 40/40 x 3 mm x 6 m	\$	2.53
2	35.0000	%	Accessories (reinforcement, welding and others, 35 % from material price)	\$	0.88
B	Labor				
1	0.2500	Day	Unskilled Labor	\$	8.00
2	0.2500	Day	Blacksmith	\$	10.00
3	0.0250	Day	Skilled Head	\$	14.00
4	0.0130	Day	Foreman	\$	15.00
5	3.0000	%	PPE & Equipment	\$	0.15
3	1 M <sup>2</sup>	New Wall Painting (1 Layer of Plamir, 1 Layer of Primer, 2 Coats Cover)		\$	3.73
A	Material				
1	0.1150	Kg	Foundation (Plamir)	\$	13.80
2	0.0920	Kg	Priming	\$	3.92
3	0.2600	Kg	Cover Paint (2 Times)	\$	8.79
4	0.0294	Piece	Paint Brush	\$	3.08
B	Labor				
1	0.0360	Day	Unskilled Labor	\$	6.00
2	0.0630	Day	Painter	\$	10.00
3	0.0060	Day	Skilled Head	\$	10.00
4	0.0060	Day	Foreman	\$	10.00
5	3.0000	%	PPE & Equipment	\$	0.03
5	1 M <sup>2</sup>	Painting Steel Surfaces with Zincromate (Priming)		\$	3.33
A	Material				
1	0.1230	Kg	Zincromate	\$	3.45
3	0.0140	Piece	Paint Oil	\$	4.60
4	0.0230	M3	Brush	\$	3.08
B	Labor				
1	0.0640	Day	Unskilled Labor	\$	6.00
2	0.2000	Day	Painter	\$	10.00
3	0.0200	Day	Skilled Head	\$	10.00
4	0.0110	Day	Foreman	\$	10.00
5	3.0000	%	PPE & Equipment	\$	0.08
14	1 ITEM	Installing Wall Double Switch		\$	24.75
A	Material				
1	1.0000	Item	Double Switch	\$	22.12
B	Labor				
1	0.2000	Day	Electrical Specialist Assistant	\$	10.00
2	0.0200	Day	Electrical Specialist	\$	14.00
3	0.0200	Day	Skilled Head	\$	14.00
4	3.0000	%	PPE & Equipment	\$	0.08
28	1 M'	Intalling NYMHY Cable 2x2.5 mm <sup>2</sup>		\$	3.18
A	Material				
1	1.0000	M'	NYMHY Cable 2x2.5 mm <sup>2</sup>	\$	1.44
2	1.0000	M'	Conduit Pipe	\$	0.50
3	5.0000	%	Accessories	\$	0.10
B	Labor				
1	0.0300	Day	Electrical Specialist Assistant	\$	8.00
2	0.0300	Day	Electrical Specialist	\$	14.00
3	0.0170	Day	Skilled Head	\$	14.00
4	0.0140	Day	Foreman	\$	15.00
5	3.0000	%	PPE & Equipment	\$	0.03



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
DIREÇÃO NACIONAL DE EDIFICAÇÃO  
Avenida Presidente Nicolau Lobato, Mandarim - Dili. Tlf. 3310121-3310122



# BILL OF QUANTITY

## PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE

## PROJECT OWNER



DIREÇÃO NACIONAL TRANSPORTES TERRESTRES (DNTT)

## PROJECT LOCATION

BOBONARO MUNICIPALITY



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
Avenida Presidente Nicolau Lobato, Mandarim - Dili. Tlf. 3310121-3310122



# BILL OF QUANTITY

## PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE

NO. 68.....DGHU/MOP/..VIII./2025

## APPROVAL SHEET

APPROVED BY:  
  
ENG. DOMINGOS DE JESUS SEQUEIRA  
DIRECTOR GERAL, DGHU - MOP



**MINISTÉRIO DOS TRANSPORTES E COMMUNICAÇÕES**

*Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste*



**Project Title** : New Construction Works of Wall at DNTT Postu Fronteira Batugede  
**Project Type** : Construction Works  
**Project Location** : Municipio Bobonaro, Batugede (*Mota-Ain*)  
**Project Owner** : Direção Nacional Transportes Terrestres (DNTT)

**SUMMARY BILL OF QUANTITY**

NO.	ITEM DESCRIPTION	UNIT PRICE (USD)
I	PREPARATION WORK	
II	EARTH WORKS	
III	FOUNDATION WORKS	
IV	CONCRETE WORKS	
V	WALL WORKS	
VI	PLASTER WORKS	
VII	FINISHING WORKS	
VIII	STEEL AND ALLUMINUM WORKS	
IX	PAINTING WORKS	
X	ELECTRICAL WORKS	
XI	MICELNIOUS WORKS	
A	<b>TOTAL PRICE ( I + II + III + IV + V + VI + VII + VIII + IX + X + XI )</b>	\$ -
B	CONTRACTOR FEE (A x 10%)	\$ -
C	OVERHEAD	
D	CONTIGENCY (A x 10%)	\$ -
E	CONSTRUCTION & REHABILITATION TAX (A + B + C + D) x 2%	\$ -
F	<b>GRAND TOTAL PRICE ( A + B + C + D + E )</b>	\$ -

Dili, ...../...../2025

Prepared by;

(Eng. Ronaldino da Costa Oliveira)

Technical Staff of MTC



Approved by;  
(Constantino Ferreira Soares)

Director Geral Transportes e Comunicações



Certified by;  
  
(Maria Antonia Vitor da Costa)  
 Directora DNTT

Checked by;

(Eng. Heimenegildo Guterres)  
 Chefe Dep. De Edificações Públicas





**MINISTÉRIO DOS TRANSPORTES E COMMUNICAÇÕES**

*Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste*



Project Title : New Construction Works of Wall at DNTT Postu Fronteira Batugede

Project Type : Construction Works

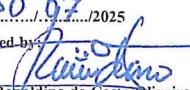
Project Location : Município Bobonaro, Batugede (*Mota-Ain*)

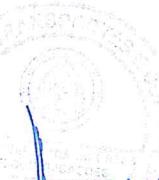
Project Owner : Direção Nacional Transportes Terrestres (DNTT)

**BILL OF QUANTITY**

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (USD)	TOTAL PRICE (USD)
<b>I PREPARATION WORK</b>					
1	Temporary fence of corrugated iron, 2 m high	M'	292.00	\$	-
2	Provide board for project name	Ls	1.00	\$	-
3	Make barrack labor, build cement warehouse tools & site office (5 x 5 m)	M <sup>2</sup>	25.00	\$	-
4	Mobilization and demobilization works	Ls	1.00	\$	-
				<b>Sub-Total I</b>	<b>\$ -</b>
<b>II EARTH WORKS</b>					
1	Soil excavation	M <sup>3</sup>	154.48	\$	-
2	Soil backfilling of excavated area	M <sup>3</sup>	19.01	\$	-
3	Sand filling 10 cm	M <sup>3</sup>	23.73	\$	-
				<b>Sub-Total II</b>	<b>\$ -</b>
<b>III FOUNDATION WORKS</b>					
1	Construction of Stone Masonry Foundation (1 Pc : 3 Sand)	M <sup>3</sup>	110.40	\$	-
				<b>Sub-Total III</b>	<b>\$ -</b>
<b>IV CONCRETE WORKS</b>					
1	Concrete f'c = 24 Mpa (K 275) for footing plate				
a	Concrete	M <sup>3</sup>	9.36		0.00
b	Steel reinforcement				
	Ø 12 mm	Kg	75.85		0.00
c	Formwork	M <sup>2</sup>	5.90		0.00
2	Concrete f'c = 24 Mpa (K 275) for pedestal colum				
a	Concrete	M <sup>3</sup>	8.75		0.00
b	Steel reinforcement				
	Ø 12 mm	Kg	68.33		0.00
	Ø 10 mm	Kg	20.23		0.00
	Ø 8 mm	Kg	23.38		0.00
c	Formwork	M <sup>2</sup>	48.39		0.00
3	Concrete f'c = 24 Mpa (K 275) for colum and colum variatio				
a	Concrete	M <sup>3</sup>	26.72		0.00
b	Steel reinforcement				
	Ø 12 mm	Kg	119.58		0.00
	Ø 10 mm	Kg	35.40		0.00
	Ø 8 mm	Kg	51.02		0.00
c	Formwork	M <sup>2</sup>	53.86		0.00
4	Concrete f'c = 24 Mpa (K 275) for sloof				
a	Concrete	M <sup>3</sup>	37.57		0.00
b	Steel reinforcement				
	Ø 12 mm	Kg	206.25		0.00
	Ø 10 mm	Kg	75.89		0.00
	Ø 8 mm	Kg	113.26		0.00
c	Formwork	M <sup>2</sup>	101.53		0.00
5	Concrete f'c = 24 Mpa (K 275) for floor in gate area				
a	Concrete	M <sup>3</sup>	8.64		0.00
b	Steel reinforcement				
	Ø 10 mm	Kg	20.00		0.00
c	Formwork	M <sup>2</sup>	2.14		0.00
				<b>Sub-Total IV</b>	<b>\$ -</b>

V	<b>WALL WORKS</b>					
1	Supply & install brick (concrete block) 40 x 20 x 10 cm, spec. 1 Pc : 4 sand	M <sup>2</sup>	568.88		\$	-
2	Supply and install new wall non sliped 989 granite black color size 600 x 600 mm	M <sup>2</sup>	7.28		\$	-
						<b>Sub-Total V</b> \$ -
VI	<b>PLASTER WORKS</b>					
1	Plastering 1 Pc : 3 sand, 20 mm thick	M <sup>2</sup>	1519.36		\$	-
2	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of columns	M <sup>2</sup>	8.30		\$	-
3	Rough plastering 1 pc : 3 sand (thick 10 mm) for variation of wall	M <sup>2</sup>	1.52		\$	-
						<b>Sub-Total VI</b> \$ -
VII	<b>FINISHING WORKS</b>					
1	Render works	M <sup>2</sup>	1921.34		\$	-
						<b>Sub-Total VII</b> \$ -
VIII	<b>STEEL AND ALLUMINUM WORKS</b>					
1	Supply and install new fence alluminium hollow (SHS 50 x 50 x 1.5 mm)	M'	101.60		\$	-
2	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1.5 mm)	M'	2.40		\$	-
3	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	129.20		\$	-
4	Supply & install frame rectangular hollow square (SHS 10 x 10 x 1 mm)	M'	797.40		\$	-
5	Supply and install new razor wire thikness Ø 450 mm 16 m coverage CBT-65	M'	226.00		\$	-
						<b>Sub-Total VIII</b> \$ -
<b>STEEL AND ALLUMINUM FOR GATE</b>						
6	Supply and install new gate wheel 100 mm main gate, gate 1 and gate 2	Pcs	25.00		\$	-
7	Supply and install new chain locks incluiding accessories	Pcs	3.00		\$	-
8	Supply & install angle bar size 50 x 50 x 4 mm x 6 m	M'	36.00		\$	-
9	Supply & install angle bar size 40 x 40 x 3 mm x 6 m	M'	296.70		\$	-
10	Supply & install frame rectangular hollow square (SHS 60 x 60 x 1.5 mm)	M'	82.50		\$	-
11	Supply & install frame rectangular hollow square (SHS 30 x 30 x 1.5 mm)	M'	18.00		\$	-
12	Supply & install frame rectangular hollow square (SHS 50 x 50 x 1.5 mm)	M'	108.64		\$	-
13	Anchor bars D10 mm (deformed)	kg	10.00		\$	-
						<b>Sub-Total VII</b> \$ -
IX	<b>PAINTING WORKS</b>					
1	New wall painting (1 layer of plamir, 1 layer of primer, 2 coats cover)	M <sup>2</sup>	1921.34		\$	-
2	Painting steel surfaces with zincromate (priming)	M <sup>2</sup>	53.46		\$	-
						<b>Sub-Total IX</b> \$ -
X	<b>ELECTRICAL WORKS</b>					
1	Supply and install Philips essential 18 watt (cool daylight)	Unit	20.00		\$	-
2	Supply and install MCB 32 A	Unit	1.00		\$	-
3	Supply and install wall double switch	Unit	2.00		\$	-
4	Supply and install NYMHY cable 2x2.5 mm <sup>2</sup> with conduit pipe	M'	200.00		\$	-
						<b>Sub-Total X</b> \$ -
XI	<b>MICELNIOS WORKS</b>					
1	Supply and install new logo acrylic and stainless embosed letter refer to detail drawing	Ls	1.00		\$	-
						<b>Sub-Total XI</b> \$ -
A	<b>TOTAL PRICE (I+II+III+IV+V+VI+VII+VIII+IX+X+XI+XII+XIII+IX+X+XO)</b>				\$	-

Dili, ...../2025  
 Prepared by:  
  
(Eng. Ronaldino da Costa Oliveira)  
 Technical Staff of MTC

Approved by:  
  
(Constantino Ferreira Soares)  
 Director Geral Transportes e Comunicações



Checked by:  
  
(Eng. Hermenegildo Guterres)  
 Chef. Dep. De Edificações Públcas



**MINISTÉRIO DOS TRANSPORTES E COMMUNICAÇÕES**

*Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste*



Project Title : New Construction Works of Wall at DNTT Postu Fronteira Batugede

Project Type : Construction Works

Project Location : Município Bobonaro, Batugede (*Mota-Ain*)

Project Owner : Direção Nacional Transportes Terrestres (DNTT)

OVERHEAD					
NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (USD)	AMOUNT (USD)
1	Site Engineer	Ls	1.00	\$	-
3	Large first aid kit for site & camp	No.	1.00	\$	-
4	Personal workers safety equipment and protection	Ls	1.00	\$	-
5	Supply electric power and water for works	Ls	1.00	\$	-
6	Report & project document	Ls	1.00	\$	-
7	Material sampling and testing	Ls	3.00	\$	-
TOTAL OVERHEAD					\$ -

Dili, 30/07/2025

Prepared by:

(Eng. Ronaldino da Costa Oliveira)  
 Technical Staff MTC



(Constantino Ferreira Soares)  
 Director Geral Transportes e Comunicações

Checked by:

(Eng. Hernanegildo Guterres)  
 Chefe Dep. De Edificações Públicas

Certified by:

(Maria Antonia Vitor da Costa)  
 Directora DNTT

Approved by:

(Arq. Agostinho de Deus)  
 Director DNE



**MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES**  
Avenida de Xavier do Amaral, Cacolo, Dili, Timor-Leste

Project Title : New Construction Works of Wall at DNNTT Posto Fronteira Baugode  
 Project Type : Construction Works  
 Project Location : Municipio Bobonaro, Baugode (Mota-Ain)  
 Project Owner : Direcção Nacional Transportes e Telecomunicações (DNNTT)

**TIME SCHEDULE & S-CURVE (SCHEDULES OF IMPLEMENTATION)**

NO.	ITEM DESCRIPTION	PRICE (USD)	WEIGHT (%)	WORKING TIMES (WEEKLY)	MONTH I				MONTH II				MONTH III				MONTH IV				MONTH V				MONTH VI			
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
I	PREPARED WORK																											100
II	EARTH WORKS																											
III	FOUNDATION WORKS																											
IV	CONCRETE WORKS																											
V	WALL WORKS																											
VI	PLASTER WORKS																											
VII	FINISHING WORKS																											
VIII	STEEL AND ALUMINUM WORKS																											
IX	PAINTING WORKS																											
X	ELECTRICAL WORKS																											
XI	MICELANEOUS WORKS																											
	<b>TOTAL</b>				24,00																							0
	Works Progress Planning				Daily Progress (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	Realization				Cumulative Progress (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
					Daily Progress (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
					Cumulative Progress (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	

30/07/2015  
 Preparatório  
 (Eduardo Mendonça da Costa Silveira)  
 Technical Staff of MTC



Approved by:  
 (Constâncio Ferreira Soares)  
 Director General of Transport and Communications

Approved by:  
 (Maria Antonia Vitor da Costa)  
 Director DNNTT



Checked by:  
 (Eduardo Mendonça da Costa Silveira)  
 Chefe Dip. De Edificações Públicas

Checked by:  
 (Eduardo Mendonça da Costa Silveira)  
 Chefe Dip. De Edificações Públicas



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
DIREÇÃO NACIONAL DE EDIFICAÇÃO

Avenida Presidente Nicolau Lobato, Mandarin - Dili. Tlf. 3310121-3310122

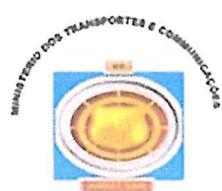


# TECHNICAL SPECIFICATION

## PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE

## PROJECT OWNER



DIREÇÃO NACIONAL TRANSPORTES TERRESTRES (DNTT)

DESIGN BY

ENG. AGUSTINHA FREITAS BELO



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
Avenida Presidente Nicolau Lobato, Mandarin-Dili. Tlf. 3310111



# TECHNICAL SPECIFICATION

## PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTU  
FRONTEIRA BATUGEDE

NO. ....68.....DGHU/MOP/...../2025 VIII

## APPROVAL SHEET

  
APPROVADO PELO  
DIRECÇÃO GERAL DE HABITAÇÃO E URBANISMO  
REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
ENG. DOMINGOS DE JESUS SEQUEIRA  
DIRECTOR GENERAL, DGHU - MOP



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO  
DIREÇÃO NACIONAL DE EDIFICAÇÃO  
Avenida Presidente Nicolau Lobato, Mandarin - Dili. Tlf. 3310121-3310122



# TECHNICAL SPECIFICATION

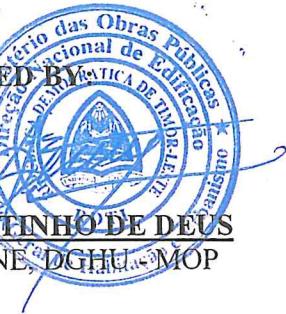
## PROJECT TITLE

NEW CONSTRUCTION WORKS OF WALL AT DNTT  
POSTU FRONTEIRA, BATUGEDE

CHECKED BY:

  
ENG. HERMENEGILDO GUTERRES  
CHIEF DEPARTMENT OF PUBLIC BUILDING

APPROVED BY

  
ARCH. AGOSTINHO DE DEUS  
DIRECTOR DNE, DGHU, MOP



## MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES

*Avenida de Xavier do Amaral, Caicoli, Dili, Timor Leste*



### NEW CONSTRUCTION WORKS Of WALL AT DNTT POSTU FRONTEIRA BATUGEDE

#### I. BACKGROUND

The framework for the fence in the Transportation Agency office needs to consider several aspects, including function, material, design, and budget. The fence functions to limit the office area, maintain security, and create a neat appearance.

Purpose and Function of Fences:

Area Restriction:

Ensure that the Transportation Agency office area is identified and delimited from the public area.

Security:

Prevent unauthorized access to office areas, protect assets, and improve personnel security.

Appearance:

Create a neat, professional appearance that meets the standards of the Department of Transportation.

Environmental Causes:

Preventing external disturbances, such as noise or dust.

#### 2. Material and Design:

Material:

The choice of material must consider durability, safety, and aesthetics. For example:

Iron Fence: Strong, durable, and easy to install.

Stone/Concrete Fence: Durable and provides a more solid appearance.

Wooden Fence: Has a natural and environmentally friendly appearance.

Combination Fence: Allows a combination of several materials to achieve the desired appearance.

Design:

The fence design must consider:

Height: The fence height must be sufficient to provide adequate security, but also consider visual comfort.

Color and Shape: The color and shape of the fence must be in harmony with the office design and logo of the Transportation Agency.

Network: The fence can be equipped with barbed wire fences or other barriers to increase security.

3. Budget:

Cost Estimate: Calculation of material costs, labor, and other additional costs.

Source of Funds: Funding can come from the Transportation Agency budget or other sources of funds.

4. Implementation Procedure:

Planning: Making a thorough plan, including fence design, materials, and budget.

Procurement: Procurement of necessary materials and equipment.

Work: Installation of the fence by skilled workers.

Supervision: Strict supervision during the fence installation process.

## II. OBJECTIVES OF ACTIVITIES

Purpose: The purpose of this work is to achieve the rehabilitation of the transportation service fence.

Objective: The objective of this development is to create a representative, safe and comfortable working atmosphere so that it is expected to optimize the performance of the Transportation Service employees.

### III. PROJECT LOCATION

Activity Location : Balidi



### V. ITEM DESCRIPTION

#### I. PREPARATION WORK

1. Temporary fence of corrugated iron, 2 m high
2. Provide board for project name
3. Make barrack labor, build cement warehouse tools & site office (5 x 5 m)
4. Mobilization and demobilization works

#### II. EARTH WORKS

1. Soil excavation
2. Soil backfilling of excavated area
3. Sand filling 10 cm

### **III. FOUNDATION WORKS**

Construction of Stone Masonry Foundation (1 Pc : 3 Sand)

### **IV. CONCRETE WORKS**

**1. Concrete  $f^*c = 24 \text{ MPa}$  (K 275) for footing plate**

a. Concrete

b. Steel reinforcement

$\emptyset 12 \text{ mm}$

**2. Concrete  $f^*c = 24 \text{ MPa}$  (K 275) for pedestal colum**

a. Concrete

b. Steel reinforcement

$\emptyset 12 \text{ mm}$

$\emptyset 10 \text{ mm}$

$\emptyset 8 \text{ mm}$

c. Formwork

**3. Concrete  $f^*c = 24 \text{ MPa}$  (K 275) for colum and colum variation**

a. Concrete

b. Steel reinforcement

$\emptyset 12 \text{ mm}$

$\emptyset 10 \text{ mm}$

$\emptyset 8 \text{ mm}$

c. Formwork

**4. Concrete  $f^*c = 24 \text{ Mpa (K 275)}$  for sloof**

- a. Concrete
- b. Steel reinforcement

$\emptyset 12 \text{ mm}$

$\emptyset 10 \text{ mm}$

$\emptyset 8 \text{ mm}$

- c. Formwork

**5. Concrete  $f^*c = 21.7 \text{ Mpa (K 250)}$  for floor in gate area**

- a. Concrete
- b. Steel reinforcement

$\emptyset 10 \text{ mm}$

- c. Formwork

## **V. WALL WORKS**

1. Supply & install brick (concrete block)  $40 \times 20 \times 10 \text{ cm}$ , spec. 1 Pc : 4 sand
2. Supply and install new wall non slipped 989 granite black color size  $600 \times 600 \text{ mm}$

## **VI. PLASTER WORKS**

1. Plastering 1 Pc : 3 sand, 20 mm thick
2. Rough plastering 1 pc : 4 sand (thick 10 mm) for variation of columns
3. Rough plastering 1 pc : 4 sand (thick 10 mm) for variation of wall.

## **VII. FINISHING WORKS**

1. Render works

## **VIII. STEEL AND ALUMINIUM WORKS**

1. Supply and install new fence aluminum hollow (SHS  $50 \times 50 \times 1,5 \text{ mm}$ )
2. Supply and install new chain locks including accessories

3. Supply & install angle bar size 50 x 50 x 4 mm x 6 m
4. Supply & install angle bar size 40 x 40 x 3 mm x 6 m
5. Supply & install frame rectangular hollow square (SHS 60 x 60 x 1,5 mm)
6. Supply & install frame rectangular hollow square (SHS 30 x 30 x 1,5 mm)
7. Supply & install frame rectangular hollow square (SHS 50 x 50 x 1,5 mm)
8. Anchor bars D10 mm (deformed)

## **IX. PAINTING WORKS**

1. New wall painting (1 layer of plamir, 1 layer of primer, 2 coats cover)
2. Painting steel surfaces with zincromate (priming)

## **X. ELECTRICAL WORKS**

1. Supply and install Philips essential 18 watt (cool daylight)
2. Supply and install MCB 32 A
3. Supply and install wall conduit pipe 1"
4. Supply and install wall double switch
5. Supply and install NYMHY cable 2x2.5 mm 2

## **XI. MISCELLANEOUS WORKS**

1. Supply and install new logo acrylic and stainless embossed letter refer to detail drawing



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS

DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO

Avenida Presidente Nicolau Lobato, Mandarin - Dili, Timor-Leste. Tlf. 3310111



**CONTENTS**

**CONSTRUCTION DRAWING DOCUMENT**

**PROJECT TITLE**

**NEW CONSTRUCTION WORKS OF WALL  
AT DNTT POSTO FRONTEIRA, BATUGEDE**

**PROJECT OWNER**



**MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES - MTC**



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE  
IX GOVERNO CONSTITUCIONAL  
MINISTÉRIO DAS OBRAS PÚBLICAS  
DIREÇÃO GERAL DE HABITAÇÃO E URBANISMO

Avenida Presidente Nicolau Lobato, Mandarim - Dili, Timor-Leste. Tlf. 3310111



## PROJECT TITLE

**NEW CONSTRUCTION WORKS OF WALL  
AT DN TT POSTO FRONTEIRA, BATUGEDE**

NO.:.....<sup>68</sup> DGHU/MOP/...../2025

## APPROVAL SHEET

APPROVED BY:

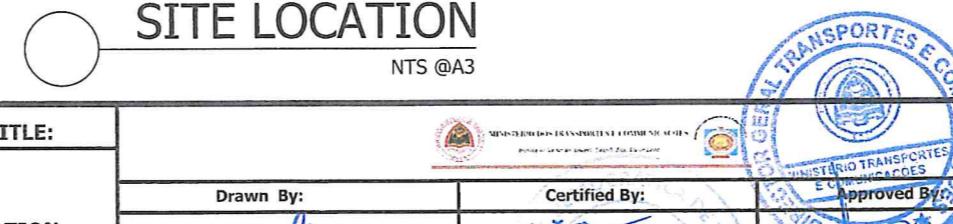
  
**ENG. DOMINGOS DE JESUS SEQUEIRA**  
**DIRECTOR GENERAL, DGHU - MOP**

**SITE MAPS**  
LOCATION: BATUGEDE



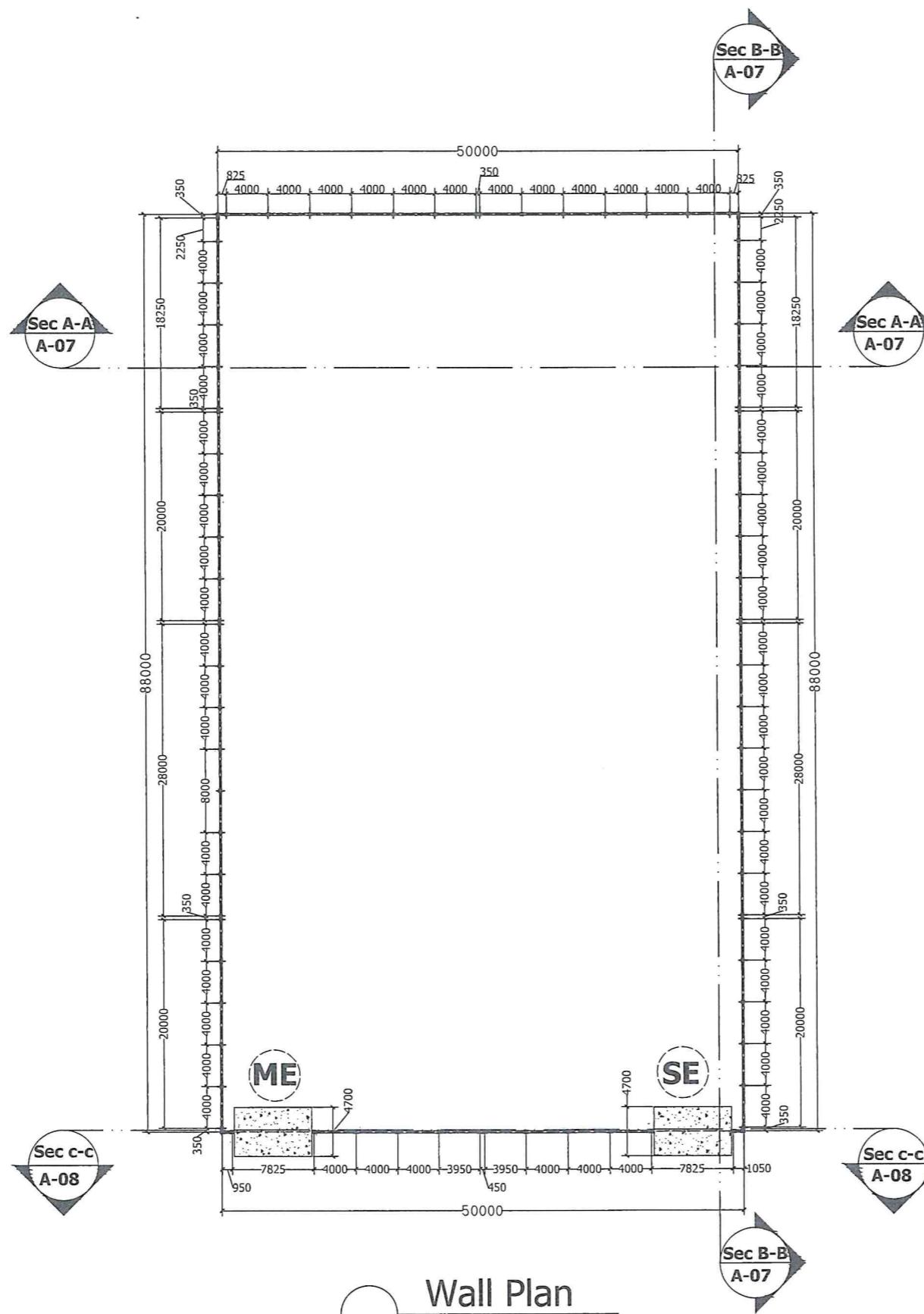
**SITE LOCATION**

NTS @A3



PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	Drawn By:	Certified By:	Approved By:	Certified By:	Approved By:	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Av. da Xavante, Anatal, Caicod, Dili, Timor-Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	SITE LOCATION	Natalino P. de Ressurreição, Lic.Tec Technical Staff	Maria Antonia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arg. Agostinho De Deus Director DNE	A-01

LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : NTS @A3	DATE : 30/03/2025	DATE : 31/03/2025	DATE : ...../...../2025	DATE : ...../...../2025
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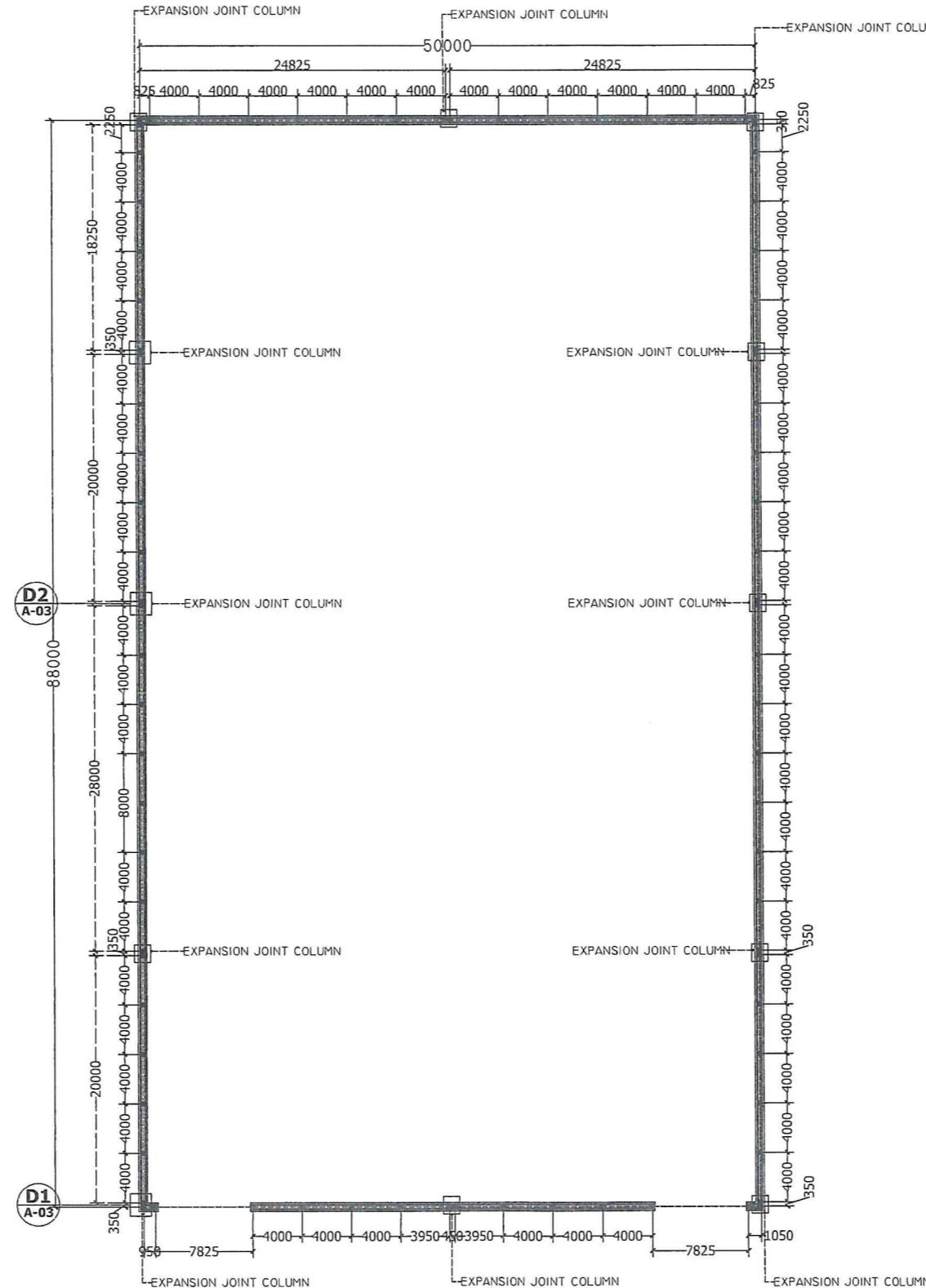
Wall Plan

Scale 1 : 550 @A3

LEGEND	
SYMBOLS	REMARKS
ME	MAIN ENTRANCE
SE	SITE EXIT

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Gabinete do Ministro dos Transportes e Comunicações Gabinete de Vizinhos do Amistad, Cidade, Distrito, Fazenda, Leste	GERAL DE EDIFICAÇÕES PÚBLICAS DIRETOR GERAL DE EDIFICAÇÕES PÚBLICAS DIRETOR GERAL DE EDIFICAÇÕES PÚBLICAS DIRETOR GERAL DE EDIFICAÇÕES PÚBLICAS	DRAWING NO:
	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	WALL PLAN	Drawn By:  Natalino P. de Ressurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE 1 : 550 @A3	DATE ...../...../2025	DATE ...../...../2025	DATE ...../...../2025

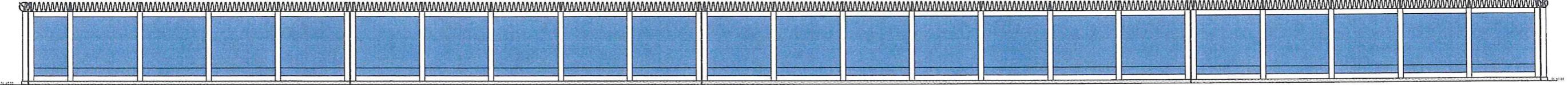
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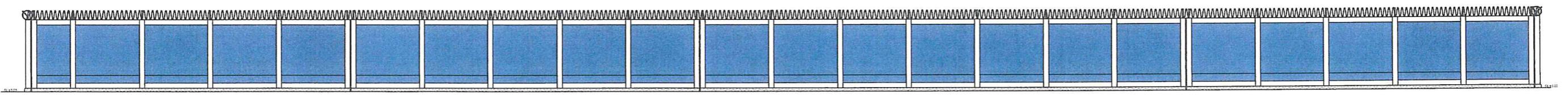
### FOOTING PLAN

Scale 1 ; 500 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES			REPUBLICA DEMOCRATICA DE TIMOR-LESTE MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES AGÊNCIA GERAL DE INFRAESTRUTURA PÚBLICAS DIRECÇÃO GERAL DE EDIFICAÇÃOS E GESTÃO DE PROJETOS NACIONAIS DE INVESTIMENTO	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Danda de Viver do Amanhã, Cidade, Dili, Timor-Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	FOOTING PLAN	Drawn By:	Certified By:	Approved By:	Certified By:	Approved By:
			Natalino P. de Ressureição, Lic.Tec Technical Staff	Maria Antónia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dépt. de Edificações Públcas	Arg. Agostinho De Deus Director DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 500 @A3	DATE : 30/03/2025	DATE : 07/03/2025	DATE : ...../...../2025	DATE : 07/03/2025	DATE : ...../...../2025

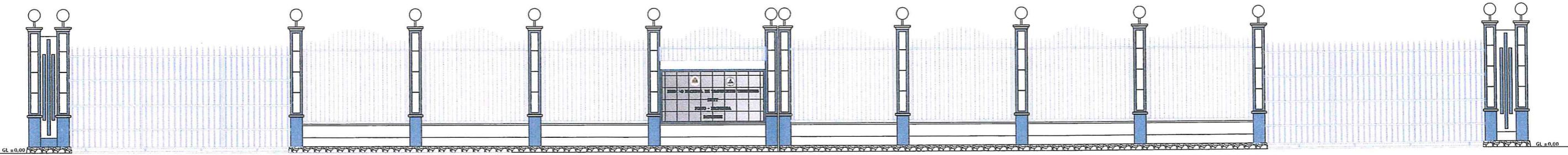


**RIGHT SIDE ELEVATION**

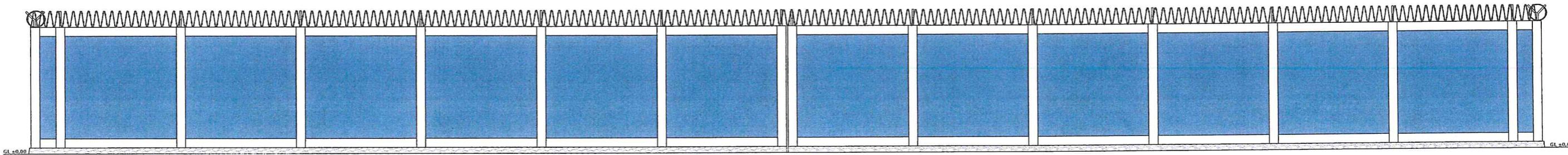


**LEFT SIDE ELEVATION**

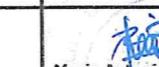
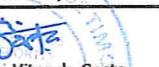
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			 <p><u>Natalino P. de Ressureição, Lic.Tec</u> Technical Staff</p>	 <p><u>Maria Antonia Vitor da Costa</u> Directress DNTT</p>	 <p><u>Constantino Ferreira Soares</u> DG - Transports and Communication</p>	 <p><u>Eng. Hermenegildo Guterres</u> Chefe Dept. de Edificações Públicas</p>	 <p><u>Arl. Adestinhu De Deus</u> Director DNE</p>
LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 : 250 @A3	DATE : 30/03/2025	DATE : 31/03/2025	DATE : ...../...../2025	DATE : ...../...../2025	DATE : ...../...../2025	

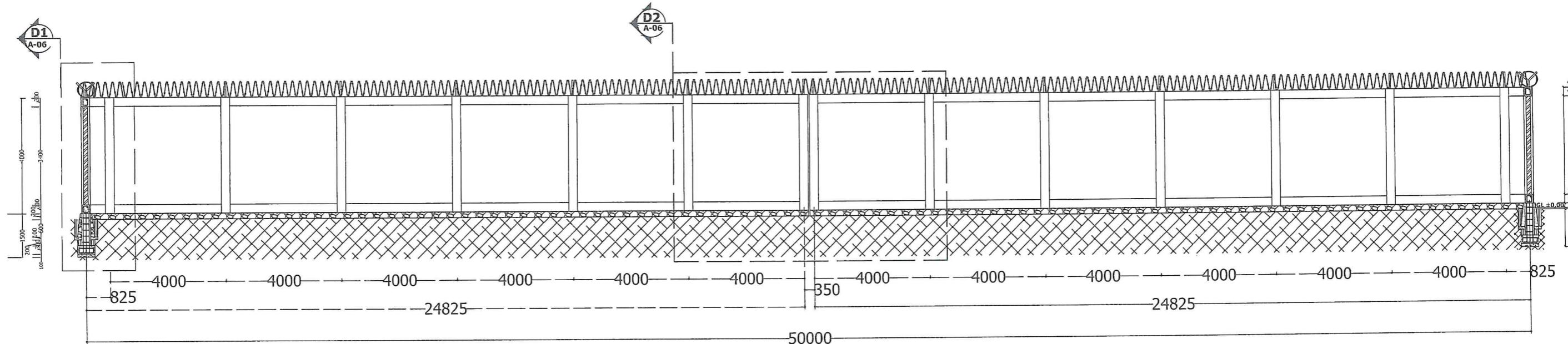


FRONT ELEVATION  
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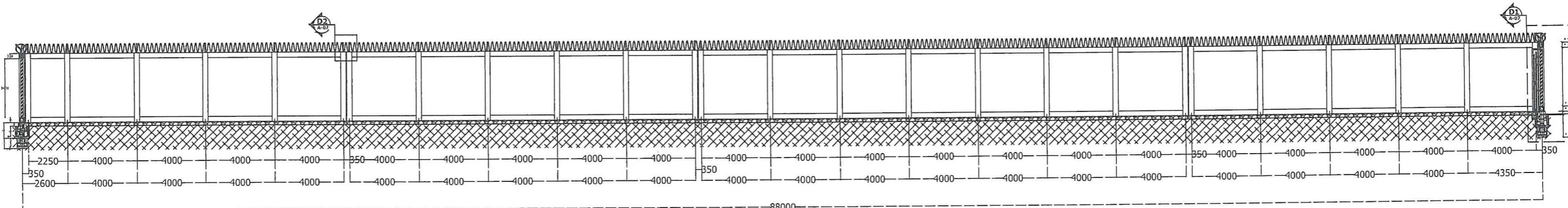


REAR ELEVATION  
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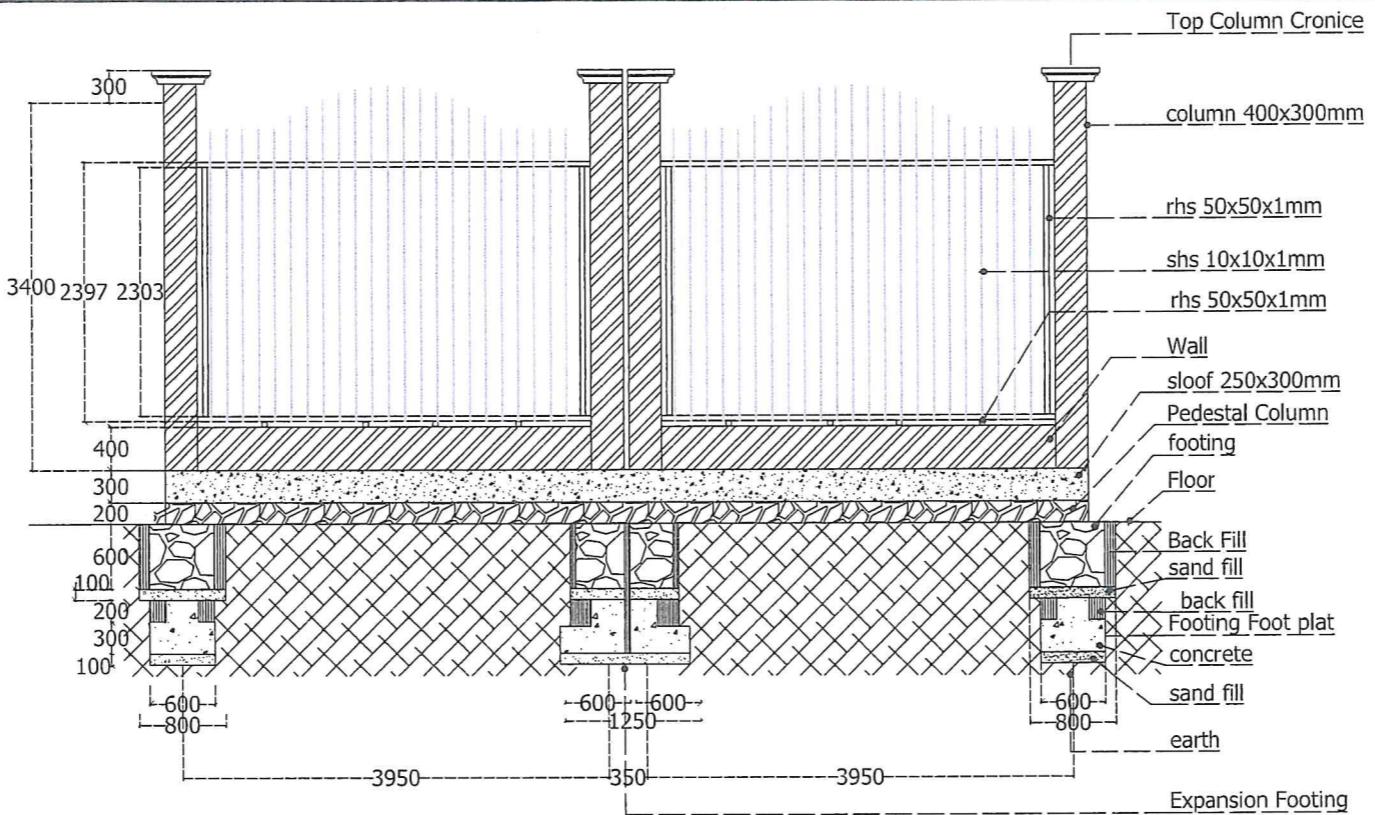
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 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES DIRECÇÃO GERAL DE INFRAESTRUTURAS E TECNOLOGIAS DA INFORMAÇÃO	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	ELEVATION	Drawn By: 	Certified By: 	Approved By: 	Certified By: 	Approved By: 	A-05	
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 140 @A3	Natalino P. de Ressureição, Lic.Tec Technical Staff	Maria Antonia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arq. Agostinho De Deus Director DNE		
		DATE : 30 / 07 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : 06 / 08 / 2025	DATE : 11 / 08 / 2025		



**WALL SECTION A - A**

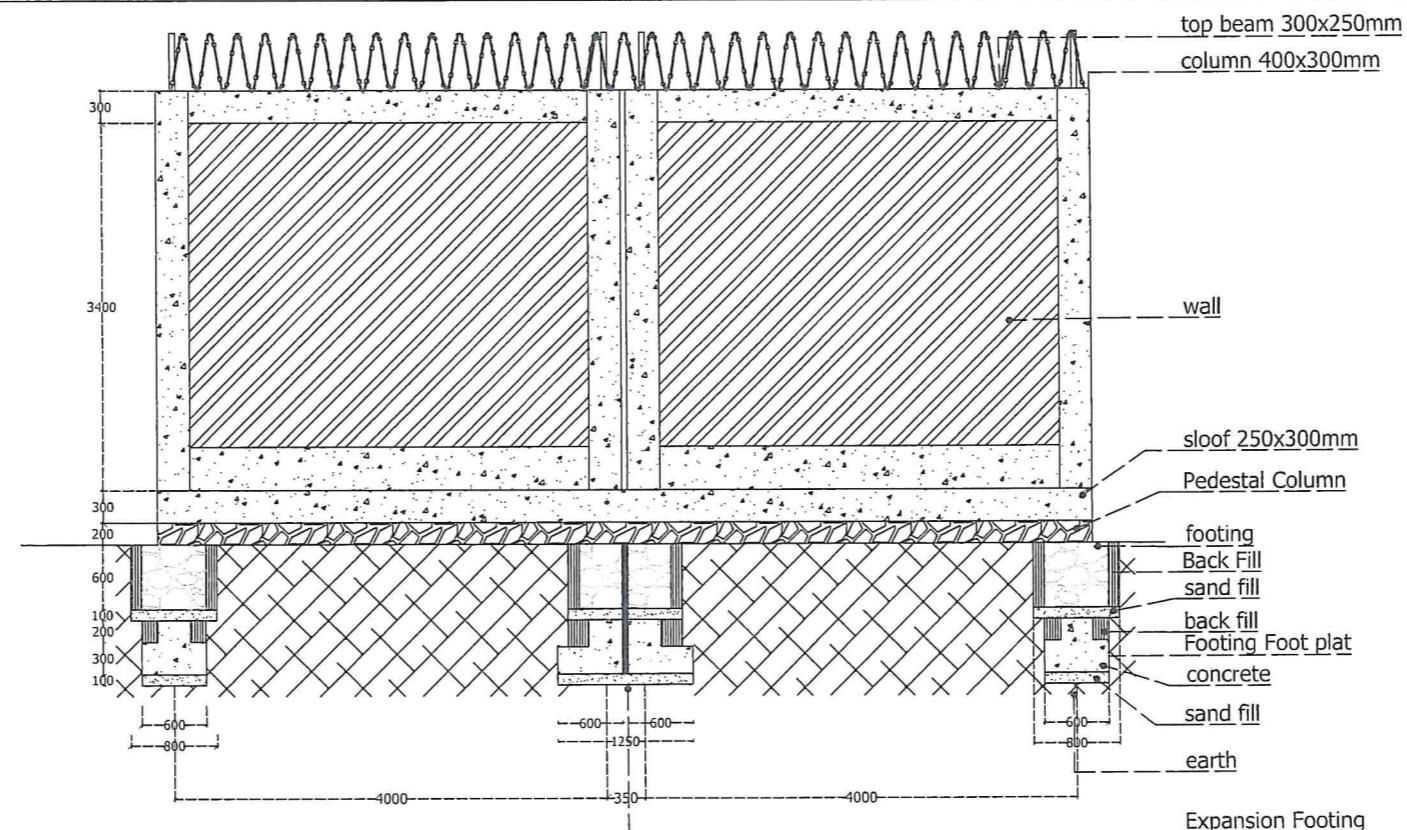


WALL SECTION B-B  
Scale 1 ; 145 @A3



DETAIL SECTION TYPICAL WALL FENCE

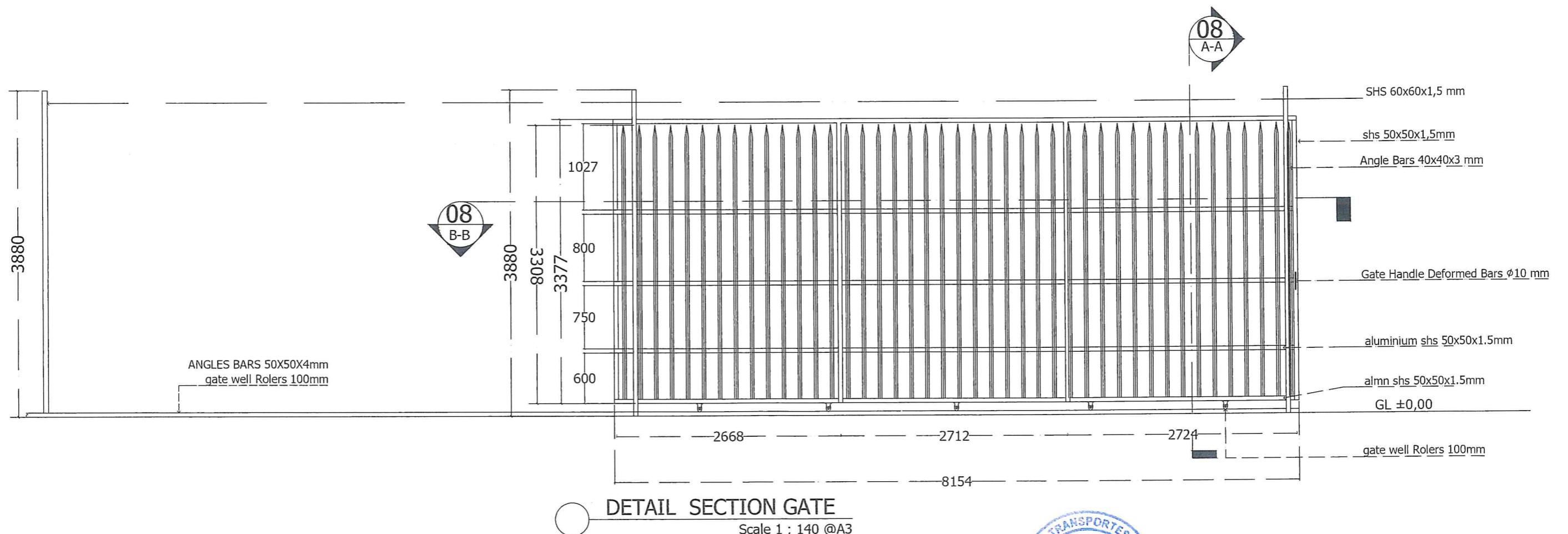
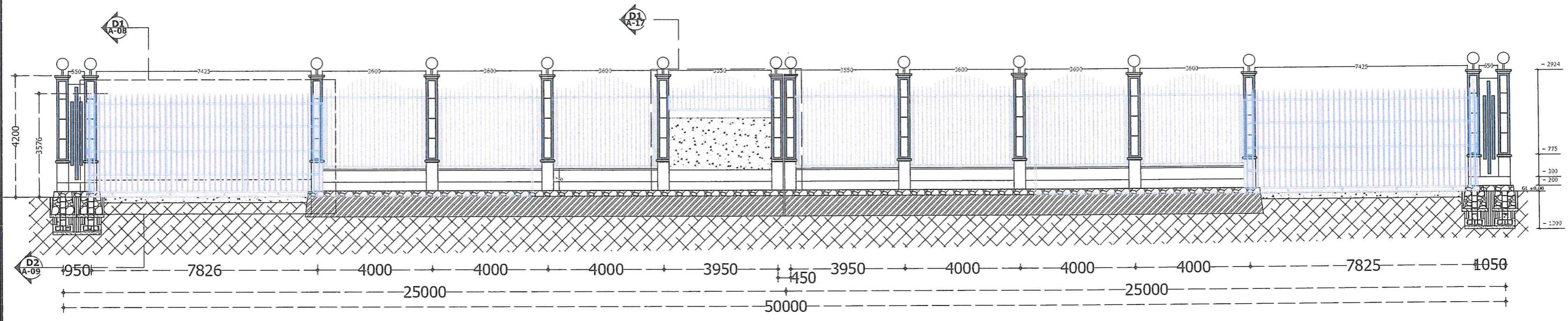
Scale 1 : 50 @A3



DETAIL WALL SECTION

Scale 1 : 50 @A3

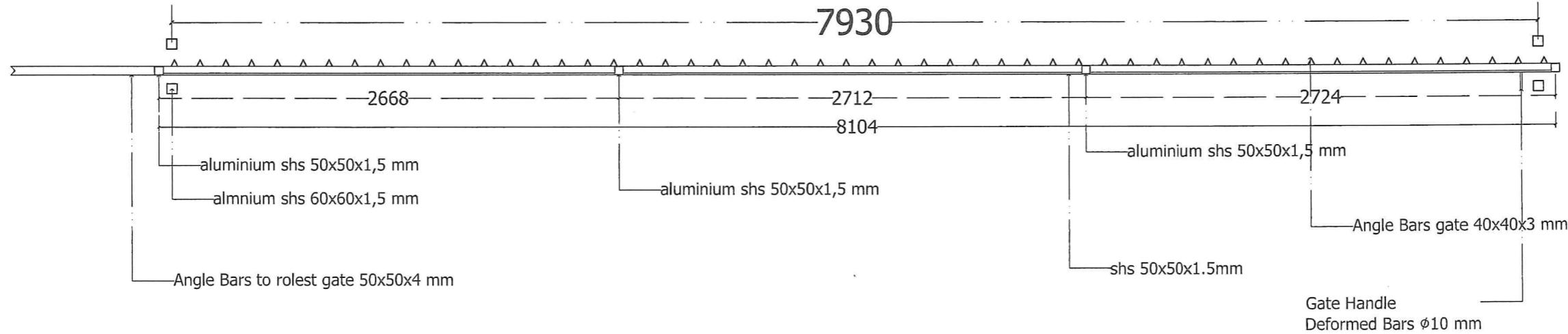
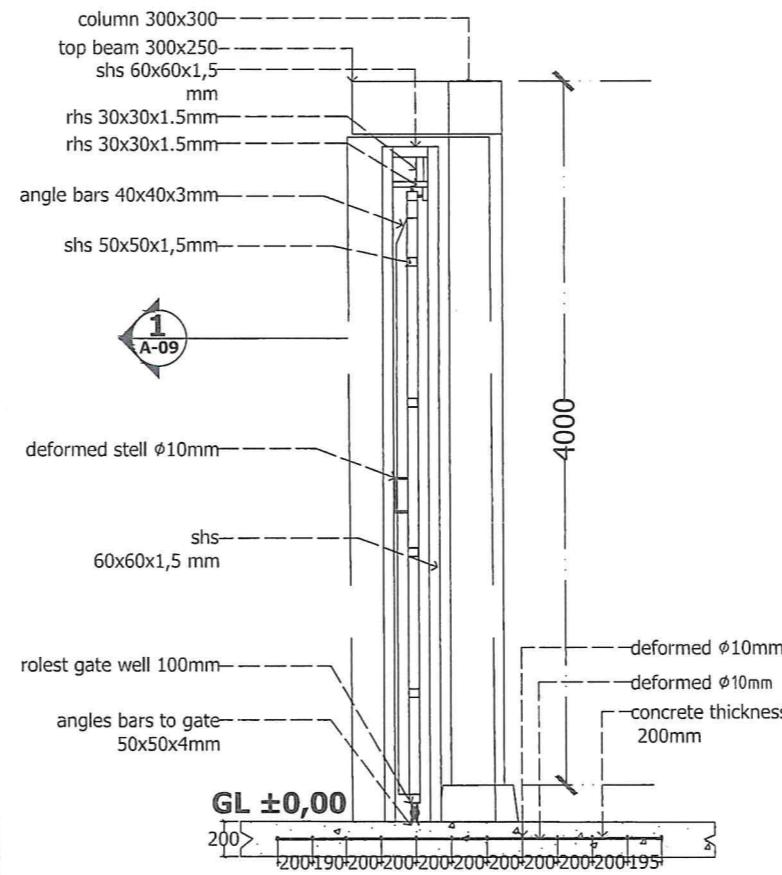
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	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	DETAIL TYPICAL SECTION DETAIL SEC WALL	Drawn By: 	Certified By: 	Approved By: 	Certified By: 	Approved By: 
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 : 50 @A3	Natalino P. de Resurreição, Lic.Tec Technical Staff	Maria Antonia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arq. Agostinho De Deus Director DNE DNTT



PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES DIRETORIA DE AVIAÇÃO DA INFRAESTRUTURA, DIRECÇÃO GERAL DE INFRAESTRUTURA, DIRECÇÃO NACIONAL DE TRANSPORTES				DRAWING NO:
	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	SECTION C - C DETAIL SECTION GATE	Drawn By: 	Certified By: 	Approved By: 	Certified By: 	Approved By: 
		Technical Staff	Maria Antonia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arq. Agostinho De Deus Director DNE	
MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES DIRETORIA DE AVIAÇÃO DA INFRAESTRUTURA, DIRECÇÃO GERAL DE INFRAESTRUTURA, DIRECÇÃO NACIONAL DE TRANSPORTES	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 140 @A3	DATE : 30 / 07 / 2025	DATE : 30 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025

**SECTION A-A TYPICAL GATE**

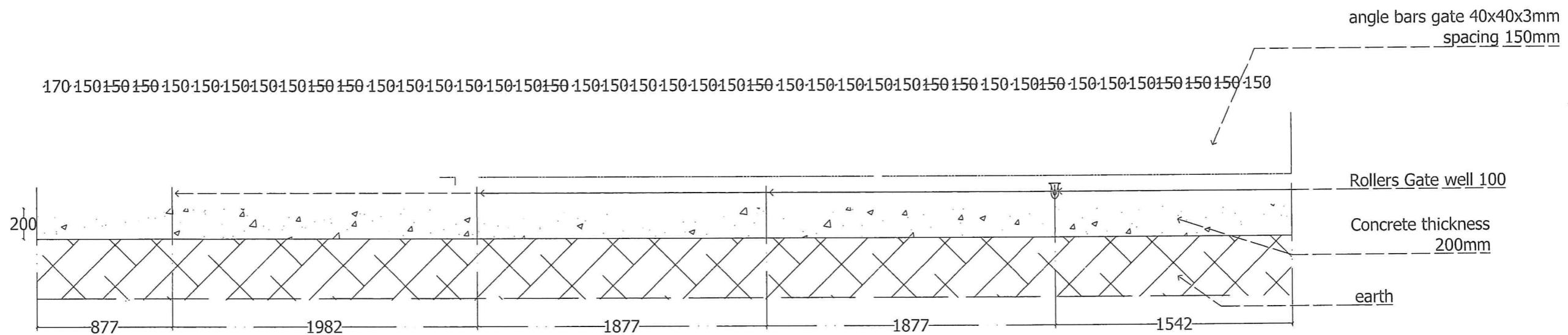
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**SECTION B-B TYPICAL GATE**

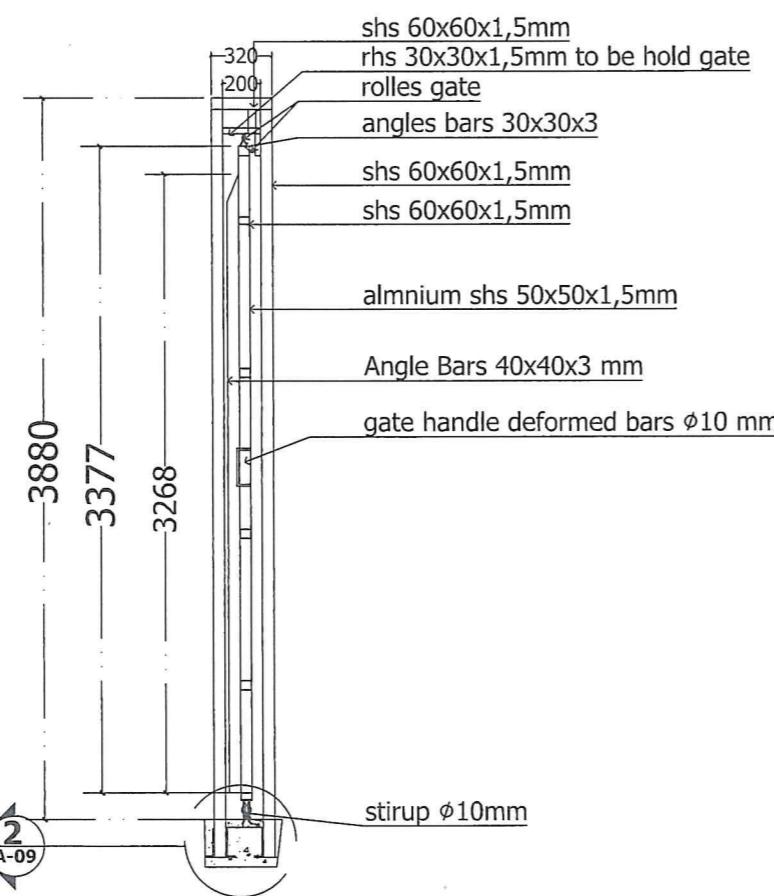
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PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES			REPUBLICA DEMOCRATICA DE TIMOR-LESTE MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES MINISTÉRIO DAS OBRAS PÚBLICAS DIRECÇÃO GERAL DE INFRAESTRUTURA E DESenvolvimento DIRECÇÃO GERAL DE ENGENHARIA			DRAWING NO:
	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	SECTION TYPICAL GATE A-A SECTION TYPICAL GATE B-B	Drawn By:	Certified By:	Approved By:	Drawn By:	Certified By:	Approved By:	A-09
MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Av. da Xerida do Inatel, Cidade, Dist. Díli, Timor Leste	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 40 @A3	Natalino P. de Ressureição, Lic.Tec Technical Staff	Maria Antonia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transports and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Eng. Agostinho De Deus Director DNE	DATE : ...../...../2025	DATE : ...../...../2025



## DETAIL SECTION GATE

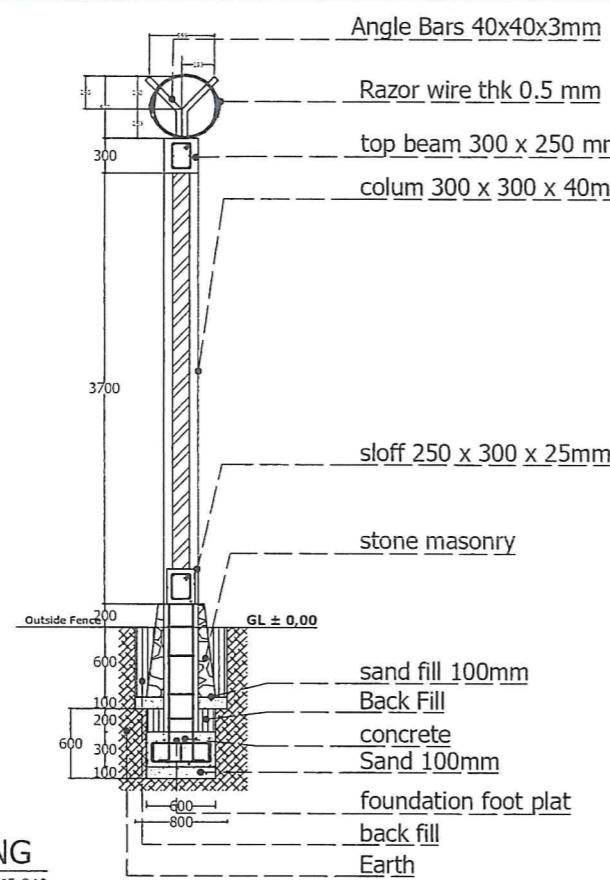
Scale 1 : 40 @A3



## DETAIL SECTION GATE ROLLERS

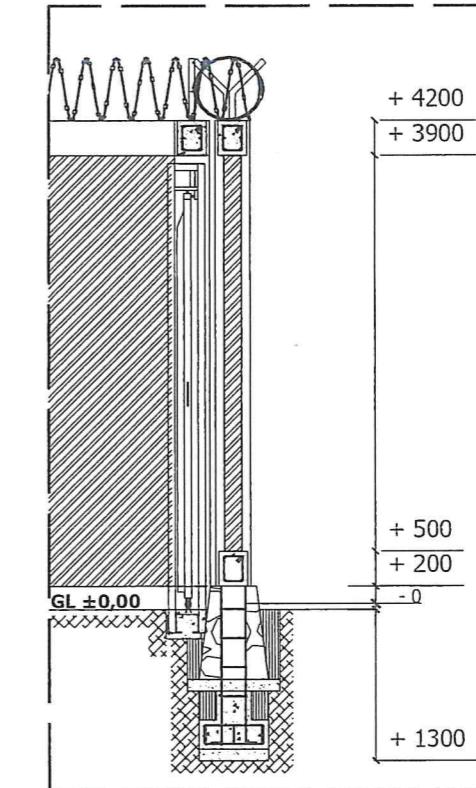
Scale 1 : 40 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Portaria do Ministro nº 100, de 20 de Fevereiro de 2007				REPARTIÇÃO FEDERATIVA DE TIMOR-LESTE CONSELHO CONSTITUCIONAL MINISTÉRIO DAS OBRAS PÚBLICAS DIRETOR GERAL DE EDIFICAÇÕES E PLANEJAMENTO ESTADO DA VILA NOVA DE LOBIS, 03 DE JUNHO DE 2010	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Av. da Vitoria do Iratral, Cidade, Dili, Timor Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	DETAIL SECTION GATE	Drawn By:	Certified By:	Approved By:	Certified By:	Approved By:	A-10
	Natalino P. de Ressurreição, Lic.Tec Technical Staff		Maria Antonia Vitor da Costa Directress DNIT	Constantino Ferreira Soares DG - Transportes and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arq. Agostinho De Deus Director DNE		
LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 40 @A3	DATE : 30 / 02 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	



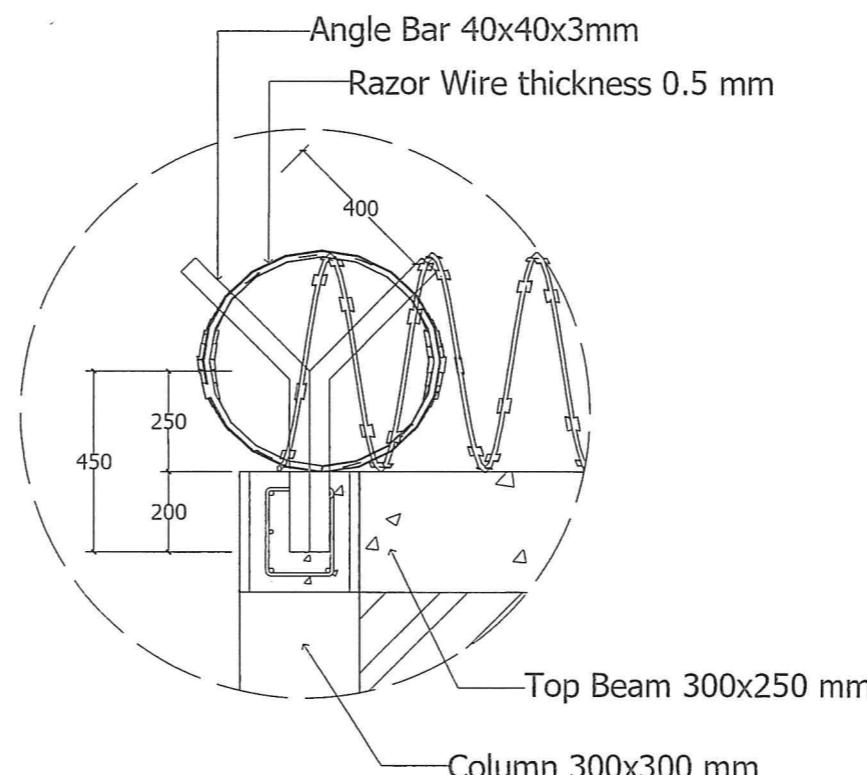
## DETAIL SECTION FOOTING

Scale 1 : 65 @A3



## DETAIL SECTION FOOTING AND GATE

Scale 1 : 65 @



#### DETAIL RAZOR WILE

Scale 1 : 65 @

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Avançar é Avançar de Verdade! Calor, DED, Dignidade!				REPUBLICA DEMOCRATICA DE TIMOR-LESTE IN GOVERNO CONSOLIDADO MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES DIRETORIA DE EDIFICAÇÕES E CUSTAS 2024 ANO SOCIAL DA DIRETORIA	DRAWING NO:
 <b>MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES</b> <i>Avançar é Avançar de Verdade! Calor, DED, Dignidade!</i>	<b>NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDA</b>	<b>DETAIL SECTION FOOTING DETAIL SECTION FOOTING AND GATE DETAIL RAZOR WILE</b>	Drawn By:	Certified By:	Approved By <sup>es</sup>	Certified By:	Approved By:	
			 <u>Natalino P. de Resurreição, Lic.Tec</u> <u>Technical Staff</u>	 <u>Maria Antónia Vitor da Costa</u> <u>Directress DNTT</u>	 <u>Constantino Ferreira Soares</u> <u>DG - Transports and Communication</u>	 <u>Eng. Hermenegildo Guterres</u> <u>Chefe Dept. de Edificações Públicas</u>	 <u>Arq. Agostinho De Deus</u> <u>Director DNE</u>	
LOCATION: BATUGEDA, BALIBO, BOBONARO	SCALE : 1 : 65 @A3	DATE : <u>30</u> / <u>07</u> / <u>2025</u>	DATE : <u>31</u> / <u>07</u> / <u>2025</u>	DATE : ..... / ..... / <u>2025</u>	DATE : ..... / ..... / <u>2025</u>	DATE : ..... / ..... / <u>2025</u>	DATE : ..... / ..... / <u>2025</u>	



A-011

A-011

## column

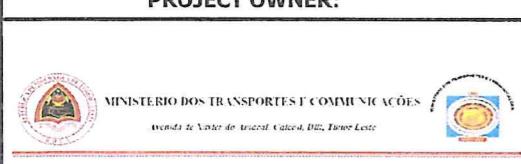
### Floor Plan Footing

## ESPASION FOOTING

DETAIL PLAN EXPANSION FOOTING FOOT PLAT

---

Scale 1 ; 65 @A3



**NEW CONSTRUCTION WORKS OF WALL  
AT DNTT POSTO FRONTEIRA,  
BATUGEDE**

**DRAWING TITLE:**  
**DETAIL PLAN EXPANSION**  
**FOOTING FOOT PLAT**  
**PLAN EXPANSION FOOTING**

**LOCATION: BATUGEDE, BALIBO, BOBONARO**

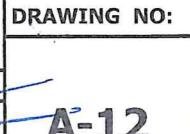
SCALE : 1 ; 65 @A



## EXPANSION FOOTING PLAN

---

Scale 1 ; 65 @A3



Expansion Footing

Concrete

Deformed φ10mm

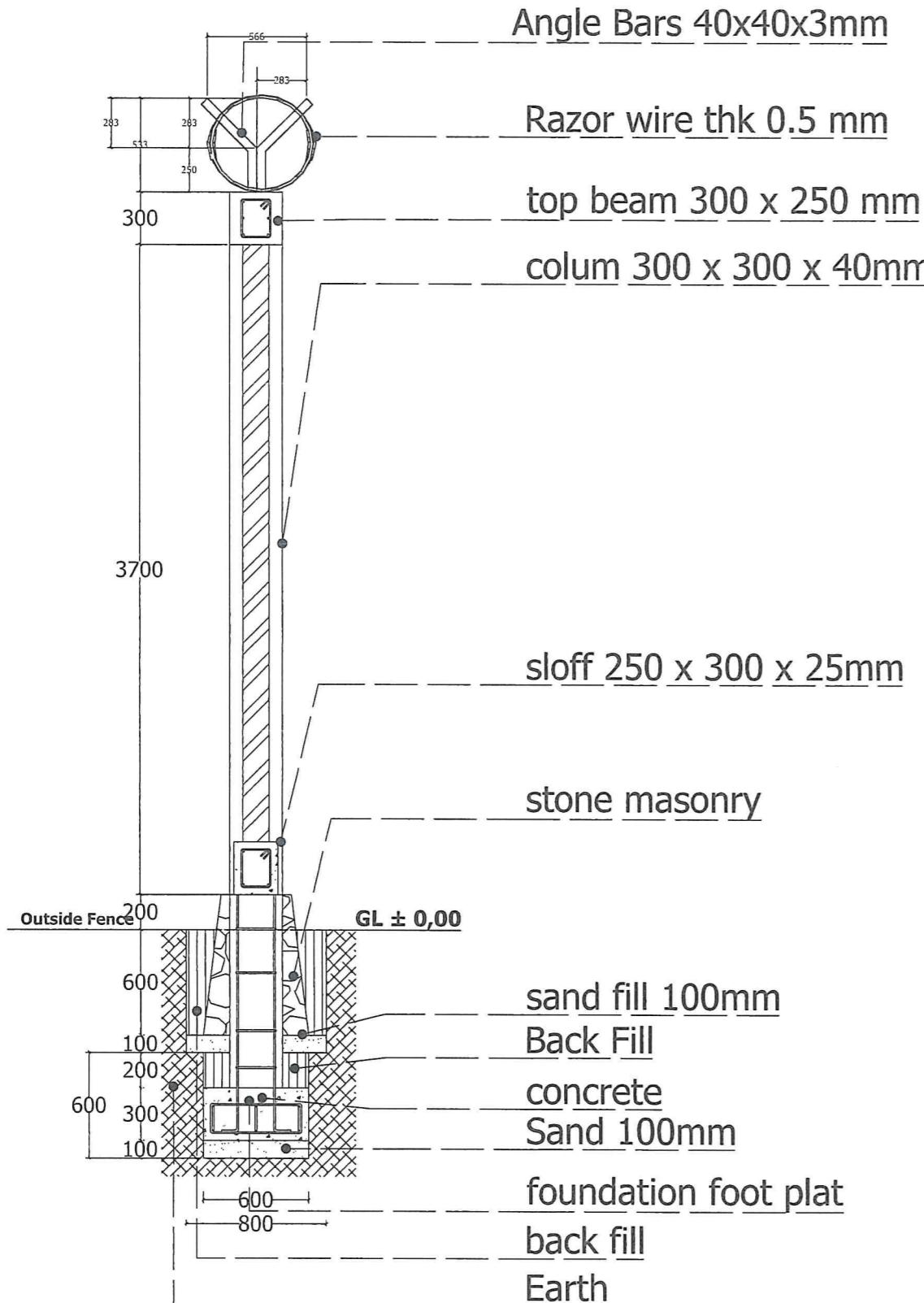
Deformed φ10mm

Sec A-A  
A-11

Sec B-B  
A-11

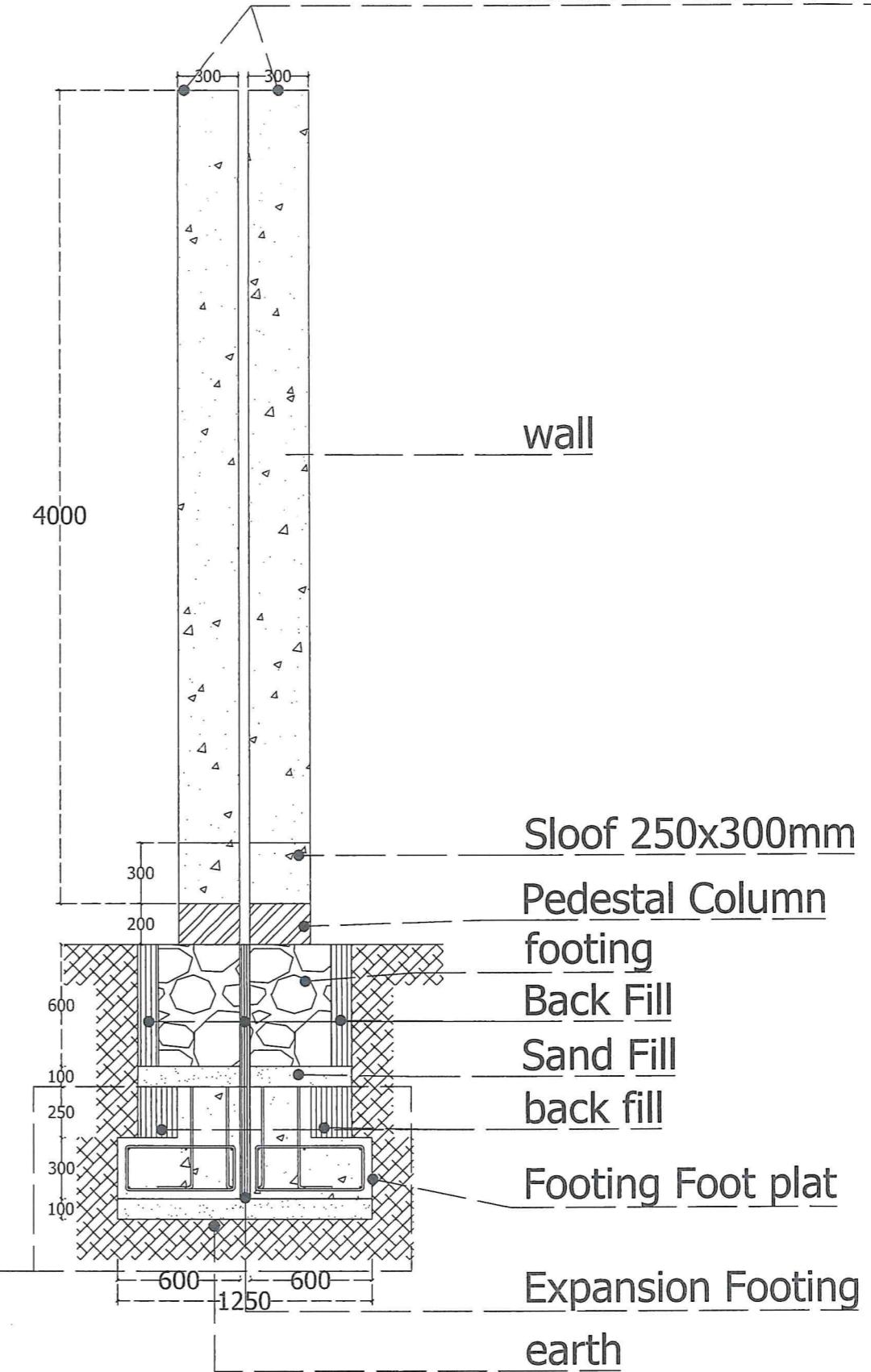
column 300x400mm

column 300x300mm



SECTION A - A FOOTING

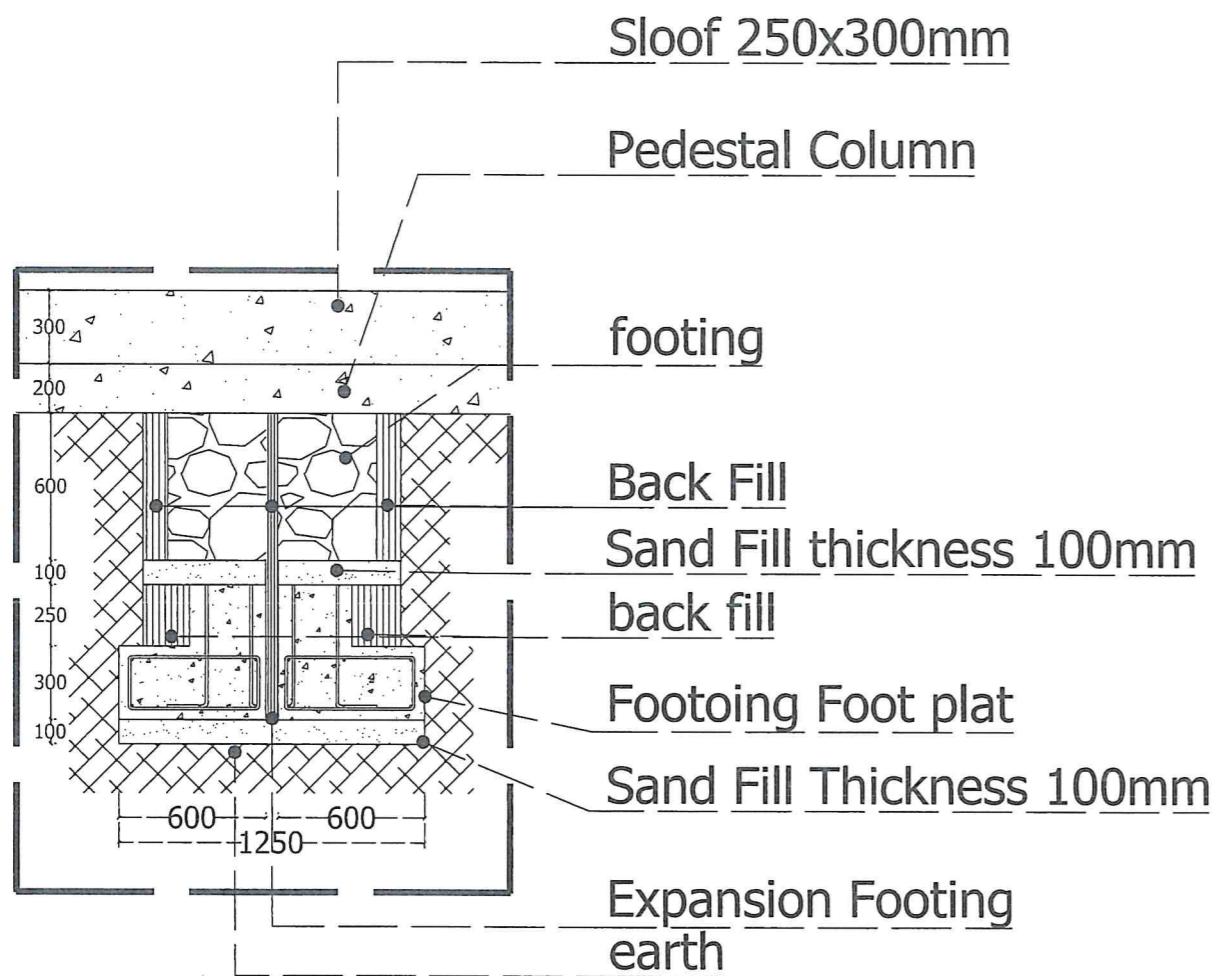
Scale 1 ; 30 @A3



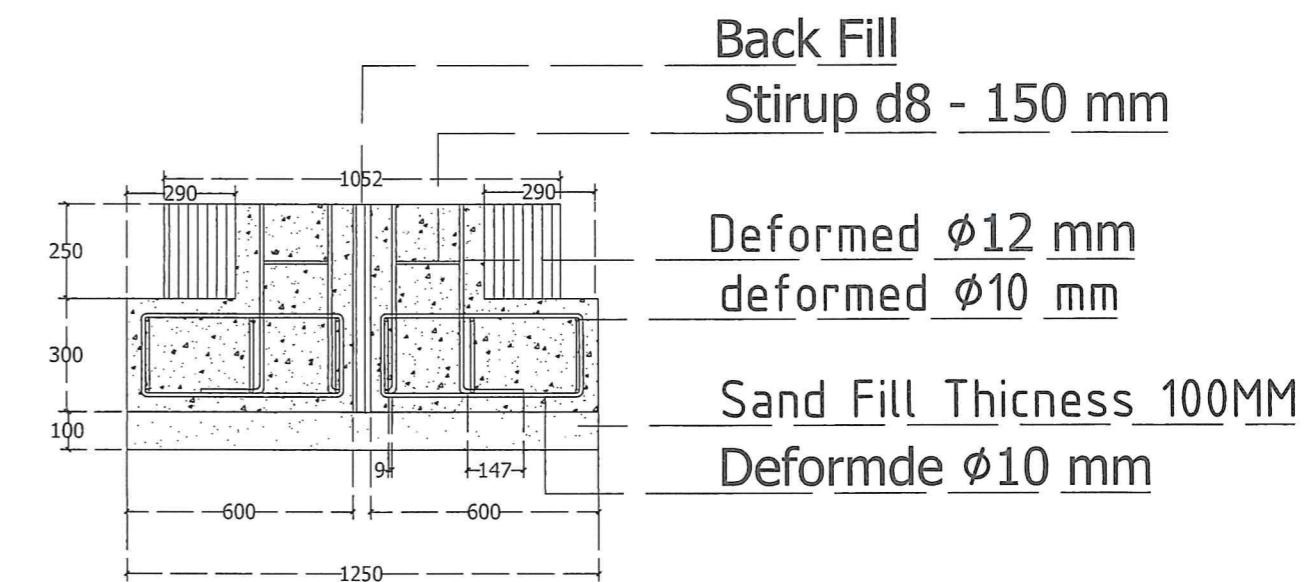
SECTION B - B FOOTING EXPANSION

Scale 1 ; 30 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES				DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Avenda da Árvore do Brasil, Cacela, Dili, Timor Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	SECTION A - A FOOTING SECTION B - B FTING EXPANSION	Drawn By:  Natalino P. de Resurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication	Certified By:  Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 30 @A3	DATE : 30/04/2025	DATE : 01/07/2025	DATE : ...../...../2025	DATE : 06/07/2025	DATE : ...../...../2025

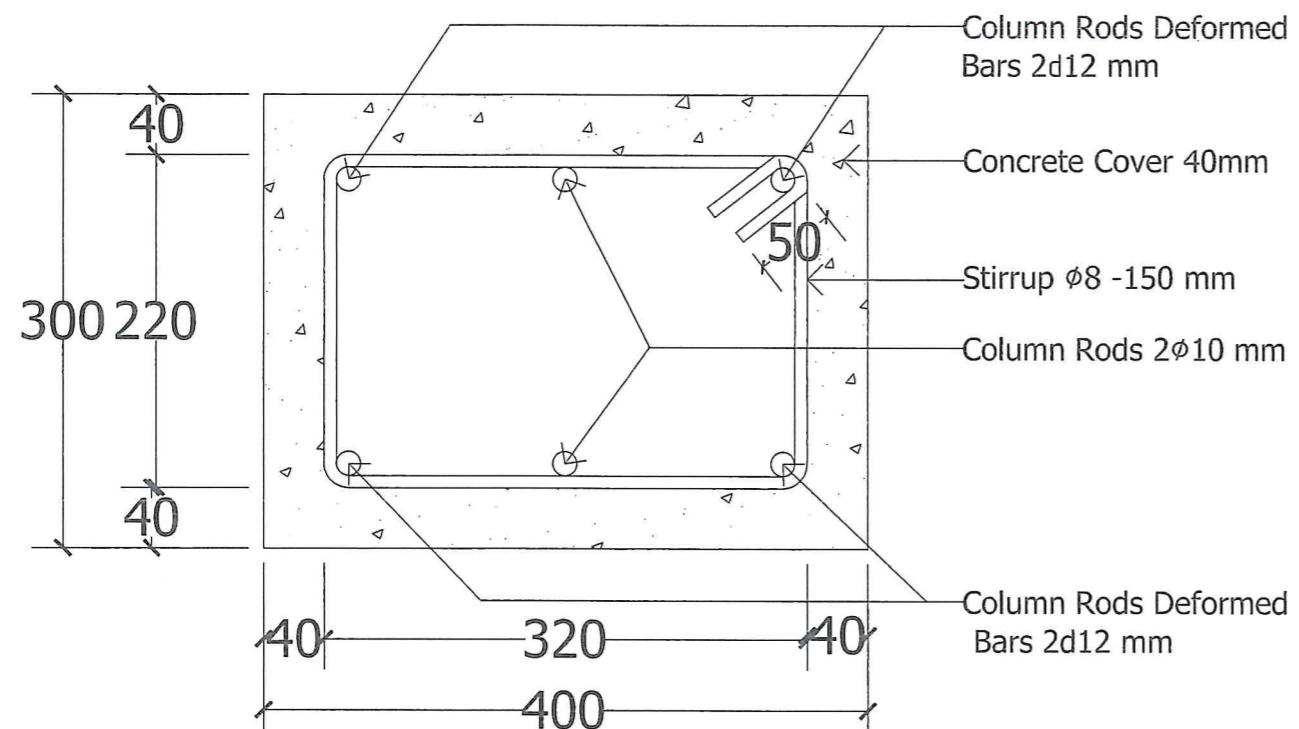


DETAIL 1 FOOTING EXPANSION  
Scale 1 ; 30 @A3

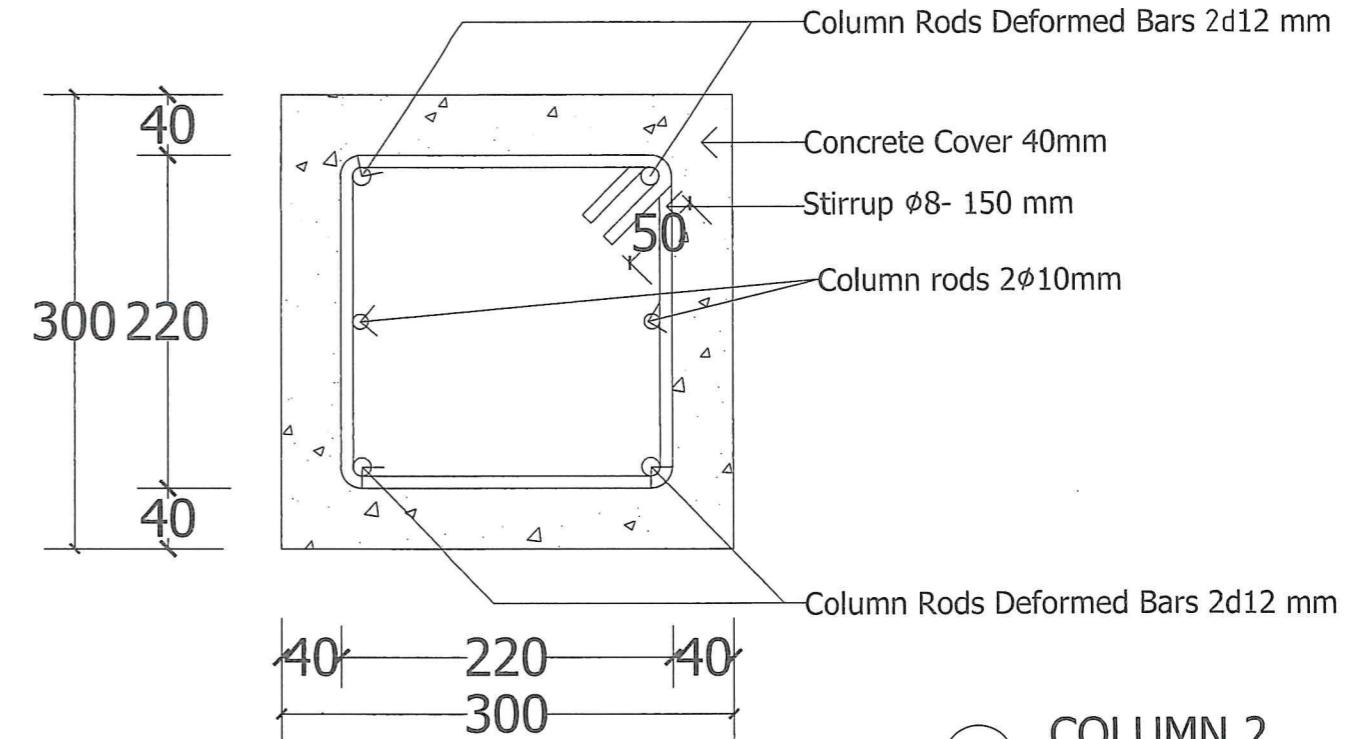


DETAIL 2 FOOTING EXPANSION  
Scale 1 ; 30 @A3

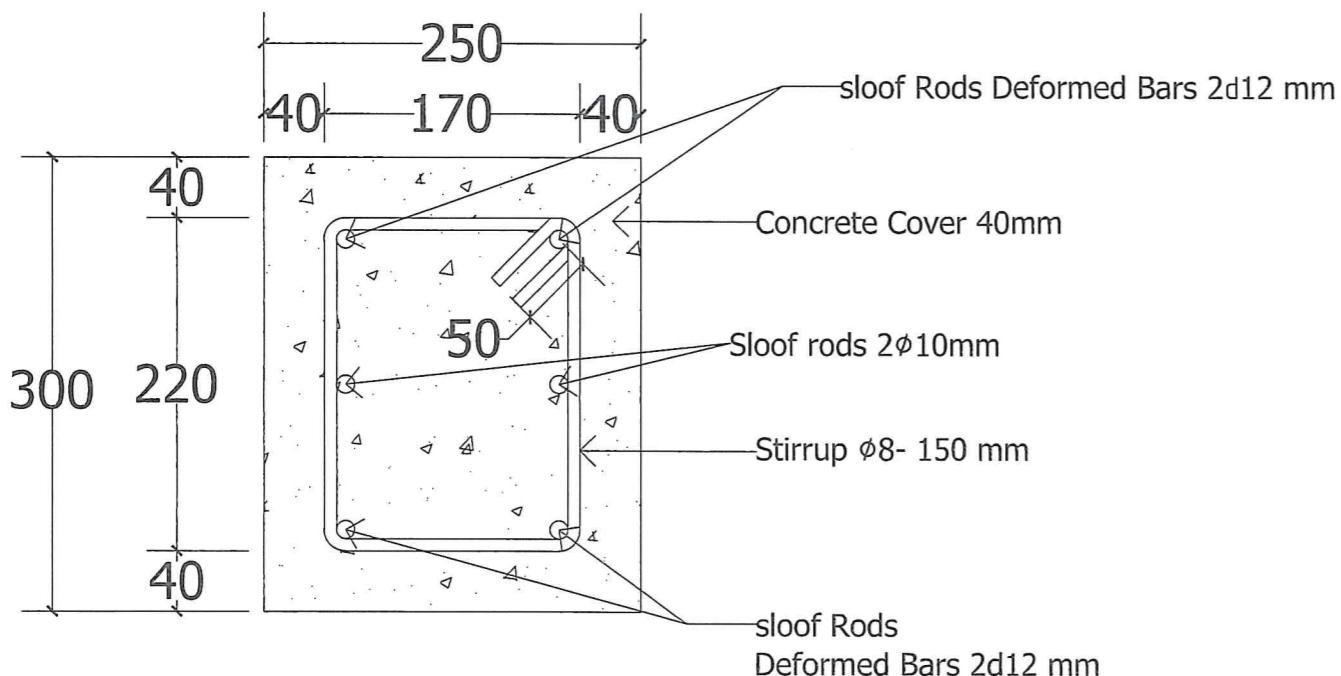
PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES				REPUBLICA DEMOCRATICA DE IMPERATRIZ DO GOVERNO CONSTITUCIONAL DIRETORIA GERAL DE HABITAÇÃO E URBANISMO DEPARTAMENTO NACIONAL DE EDIFICAÇÃO	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Governo do Estado do Amazonas, Cidadão, Digno, Fazendo Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	DETAIL 1 DETAIL 2	Drawn By:  Natalino P. de Resurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transportes and Communication	Certified By:  Eng. Hermenegildo Gutierrez Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director DNE	A-14
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 30 @A3	DATE : 20 / 02 / 2025	DATE : 31 / 02 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	



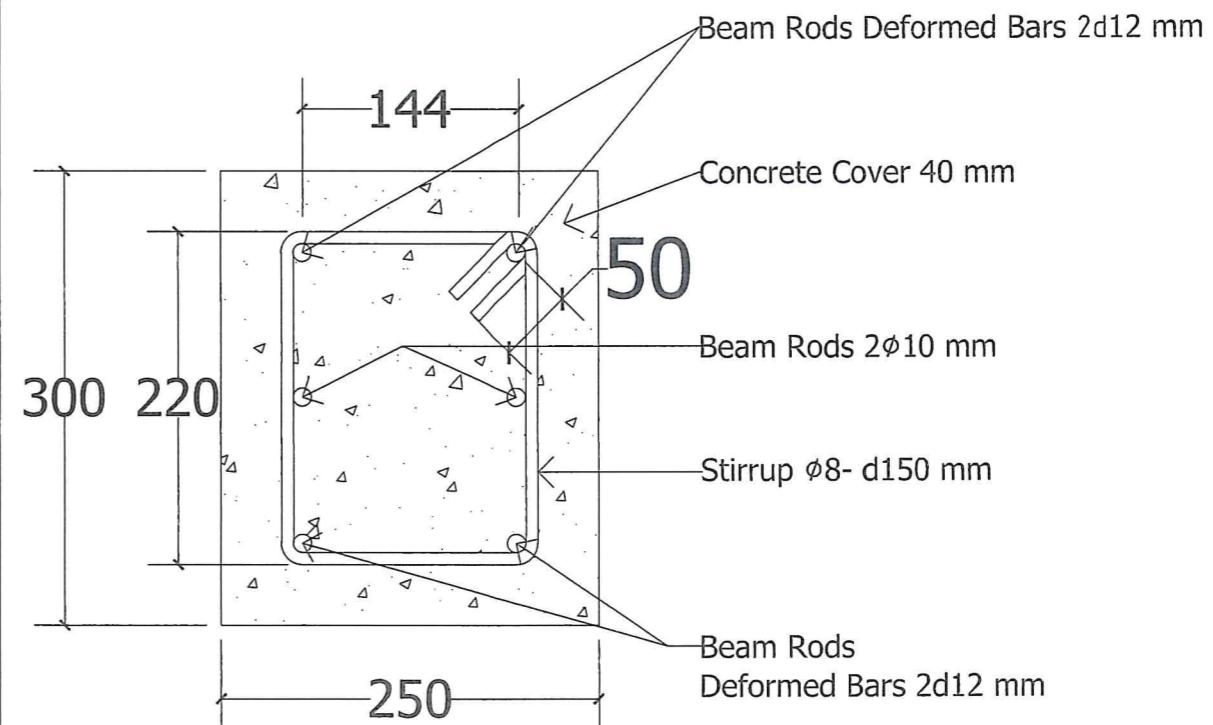
Scale 1 ; 15 @A3



Scale 1 ; 15 @A3

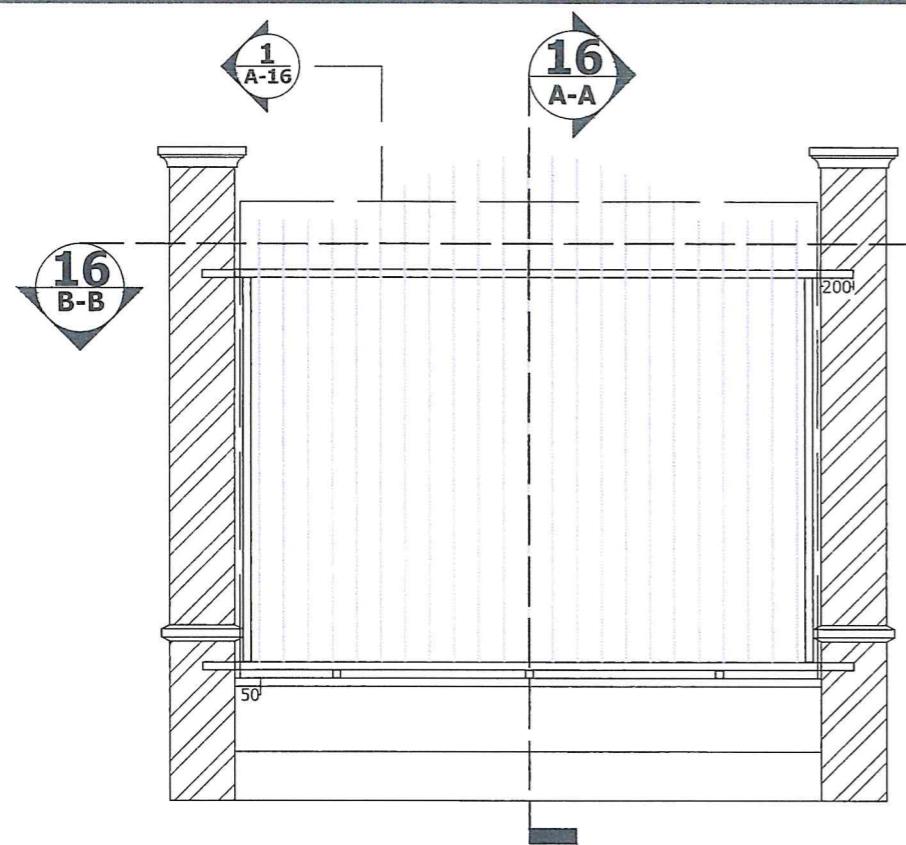


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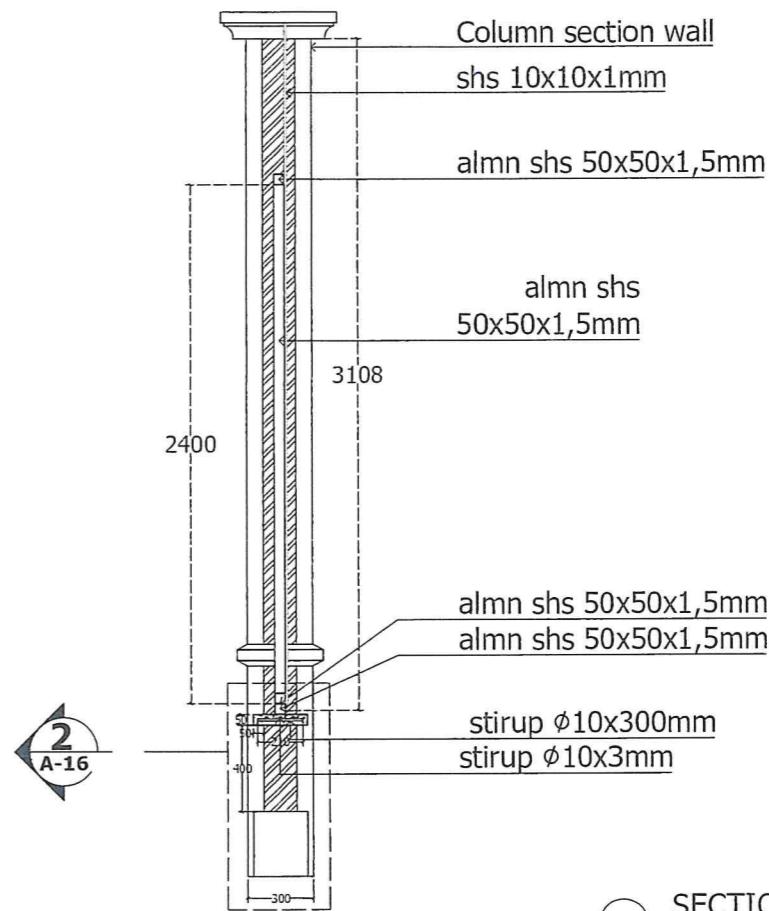


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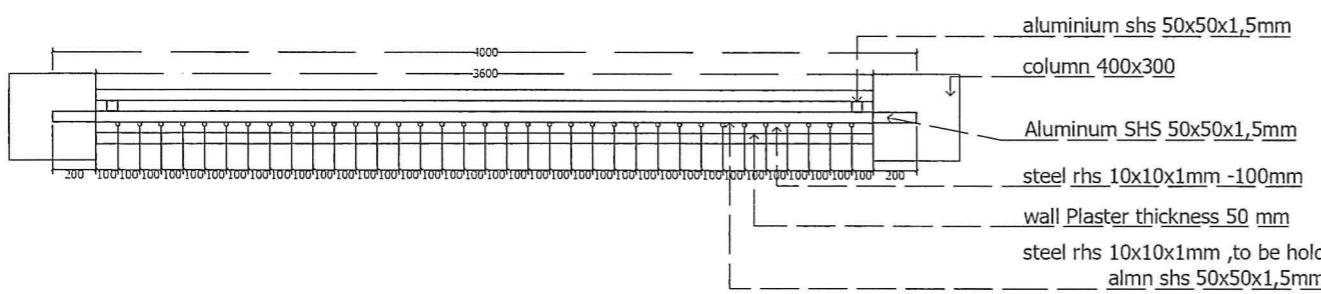
PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES			MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Avenda da União Africana, Caxias, Dili, Timor Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	COLUMN 1 COLUMN 2 SLOOF TOP BEAM	Drawn By:  Natalino P. de Resurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication	Certified By:  Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 15 @A3	DATE ..... / ..... /2025	DATE ..... / ..... /2025	DATE ..... / ..... /2025	DATE ..... / ..... /2025	DATE ..... / ..... /2025



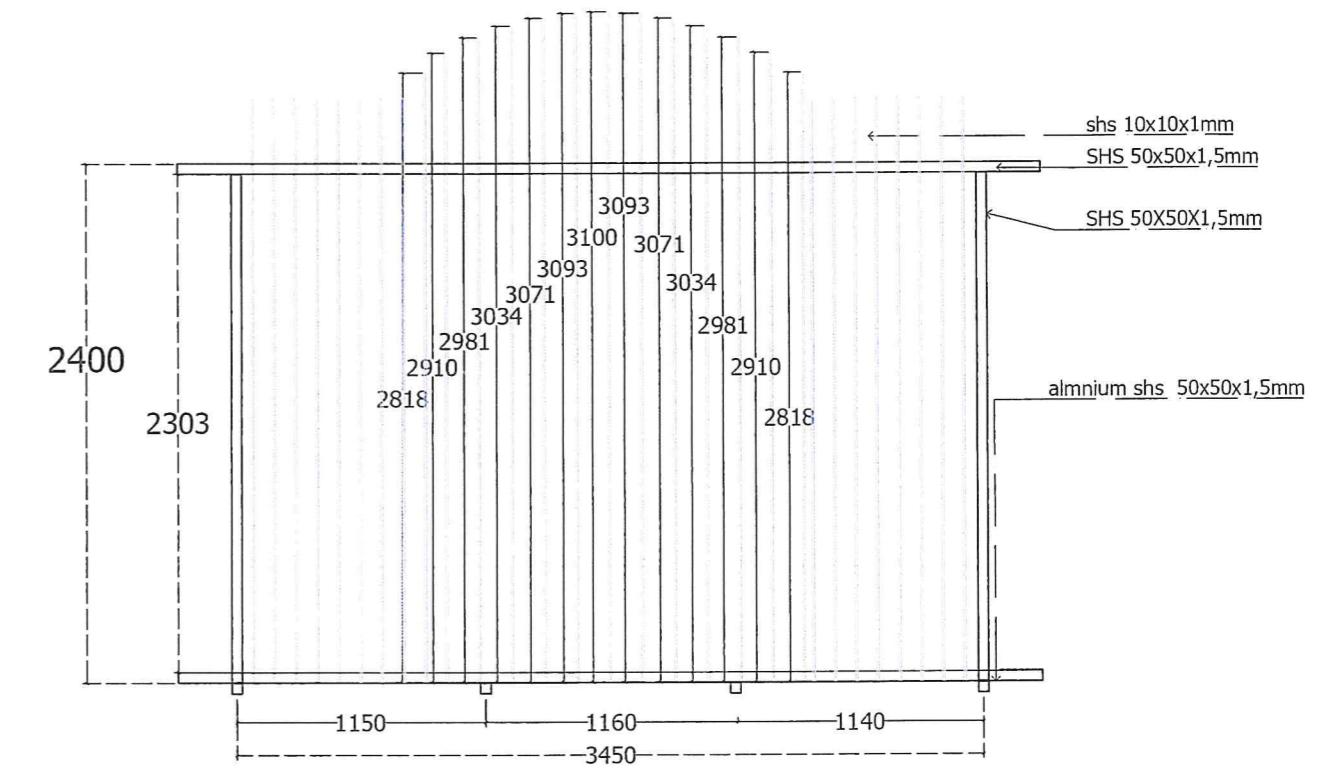
DETAIL SECTION TYPICAL  
Scale 1 ; 45 @A3



SECTION A - A STELL FENCE  
Scale 1 ; 45 @A3

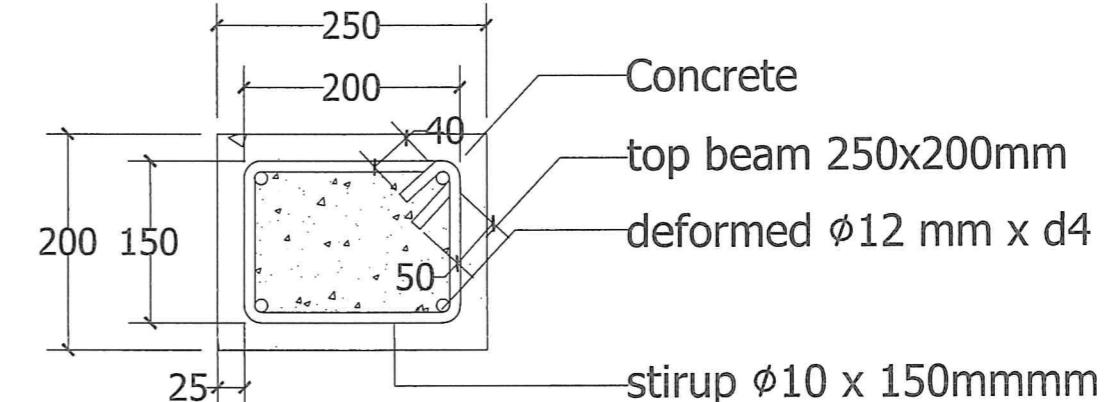
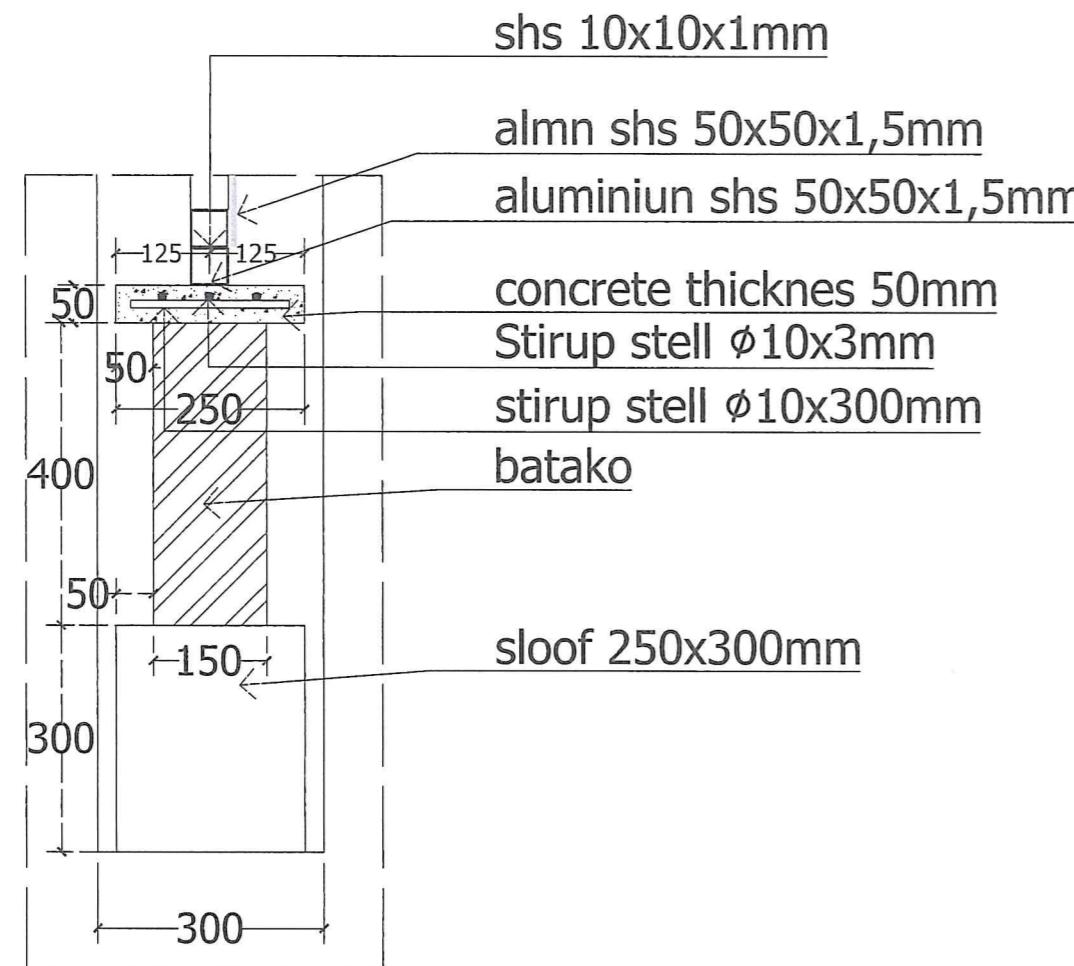


SECTION B-B TYPICAL  
Scale 1 ; 45 @A3



DETAIL 2 TYPICAL  
Scale 1 ; 45 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES				DRAWING NO:
MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Av. da Vitoria, 1000-1450 Lisboa, Portugal	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	DETAIL SEC TYPICAL FENCE SEC A - A STELL FENCE SEC B - B TYPICAL FENCE DETAIL TYPICAL	Drawn By:  Natalino P. de Resurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication	Certified By:  Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Diretor DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 45 @A3	DATE : 30 / 07 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025



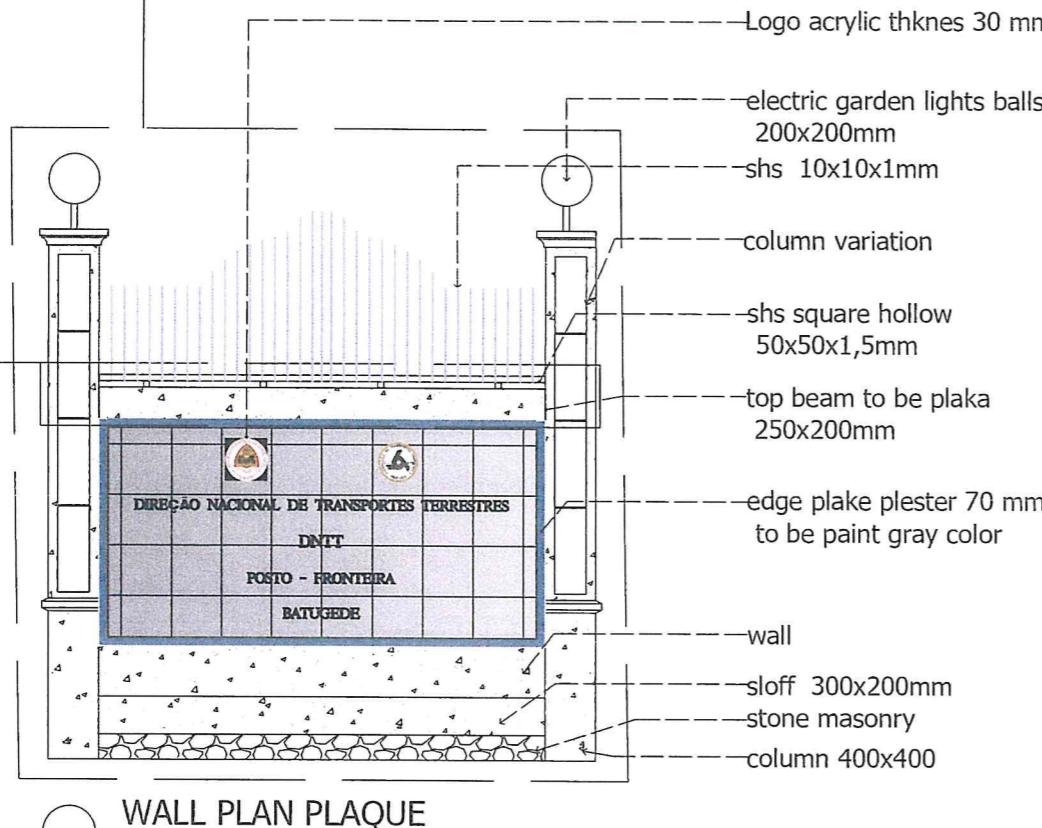
### DETAIL SECTION WALL

Scale 1 ; 35 @A3

### DETAIL 3 TOP BEAM PLAQUE

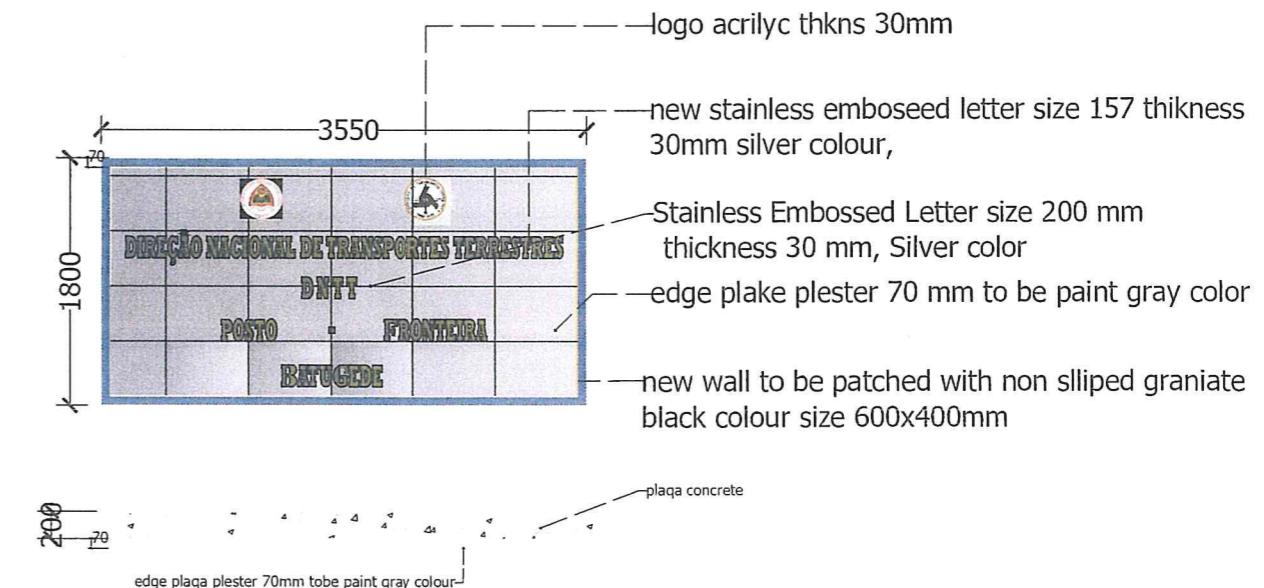
Scale 1 ; 35 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES			REPUBLICA DE GUINEA-BISSAU PROJETO INSTITUTO CONSULTORIAL MINISTÉRIO DA EDIFICAÇÃO PÚBLICAS DIRECÇÃO GERAL DE HABITAÇÃO E EDIFICAÇÃO DIRECÇÃO NACIONAL DE EDIFICAÇÃO		DRAWING NO:
	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	DETAIL SEC WALL DETAIL 3 TOP BEAM	Drawn By:  Natalino P. de Ressureição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication	Certified By:  Eng. Hermenegildo Gutierrez Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director-DINE	A-17
MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Avenda X. Avenida do Arcozelo, Cidade, Distrito Leste	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 35 @A3	DATE : 30 / 07 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	

D1  
A-17

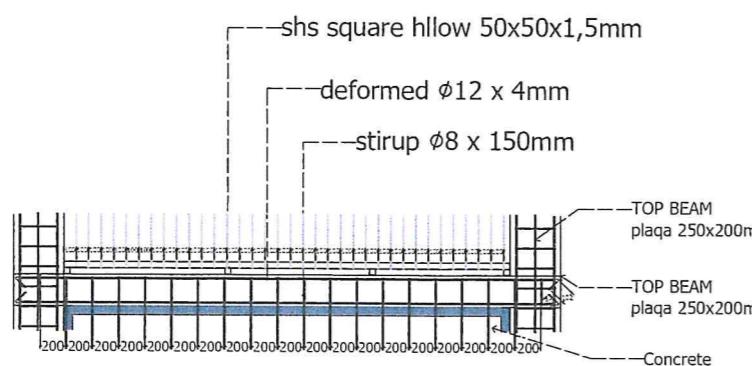
WALL PLAN PLAQUE

Scale 1 ; 60 @A3



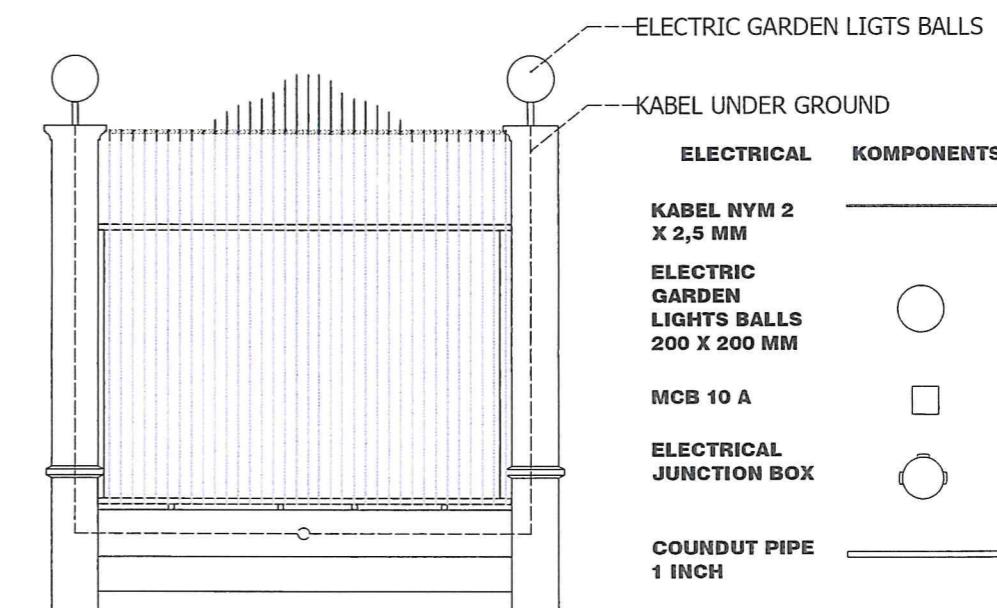
WALL PLAN EMBOSSED LETTER

Scale 1 ; 60 @A3



BEAM STELL PLAQUE

Scale 1 ; 60 @A3

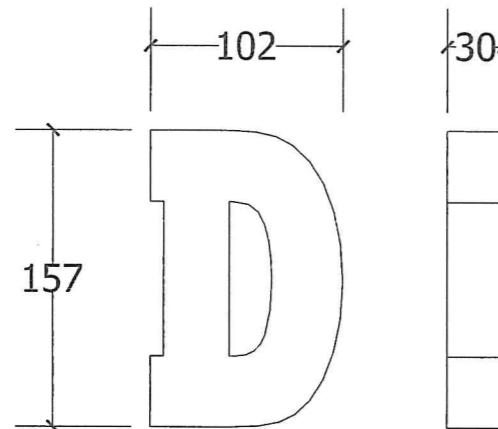


ELECTRICAL

Scale 1 ; 60 @A3

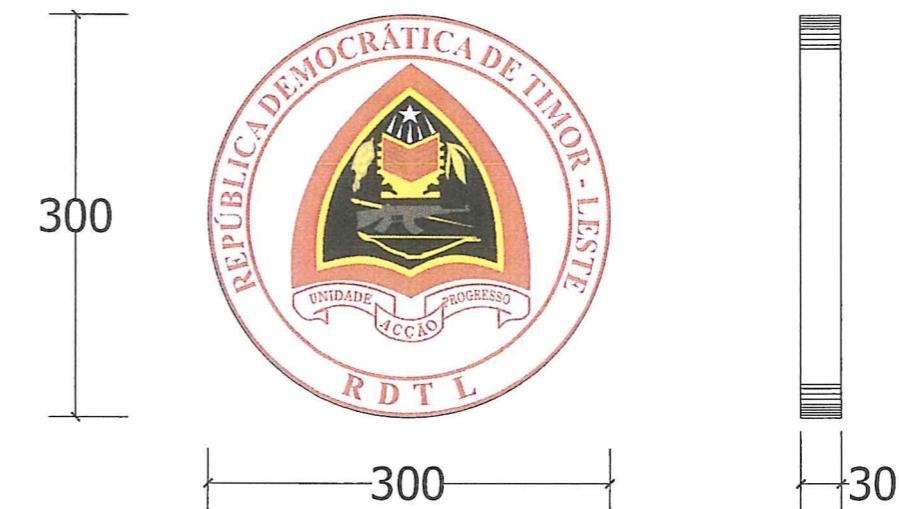
PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	DRAWING NO:			
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Instituto de Administração Pública da Pátria Leste	<b>NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE</b>	WALL PLAN PLAQUE WALL PLAN EMBOSSED LETTER BEAM STELL PLAQUE ELECTRICAL PLAN	Drawn By:	Certified By:	Approved By:	Certified By:
			 Natalino P. de Resurreição, Lic.Tec Technical Staff	 Maria Antónia Vitor da Costa Directress DNTT	 Constantino Ferreira Soares DG - Transports and Communication	 Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas
LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 60 @A3	DATE : 30 / 07 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025

A-18



Front Elevation   Left Elevation

- New Stainless Embossed Letter  
Size 157 mm thickness 30 mm Silver Color



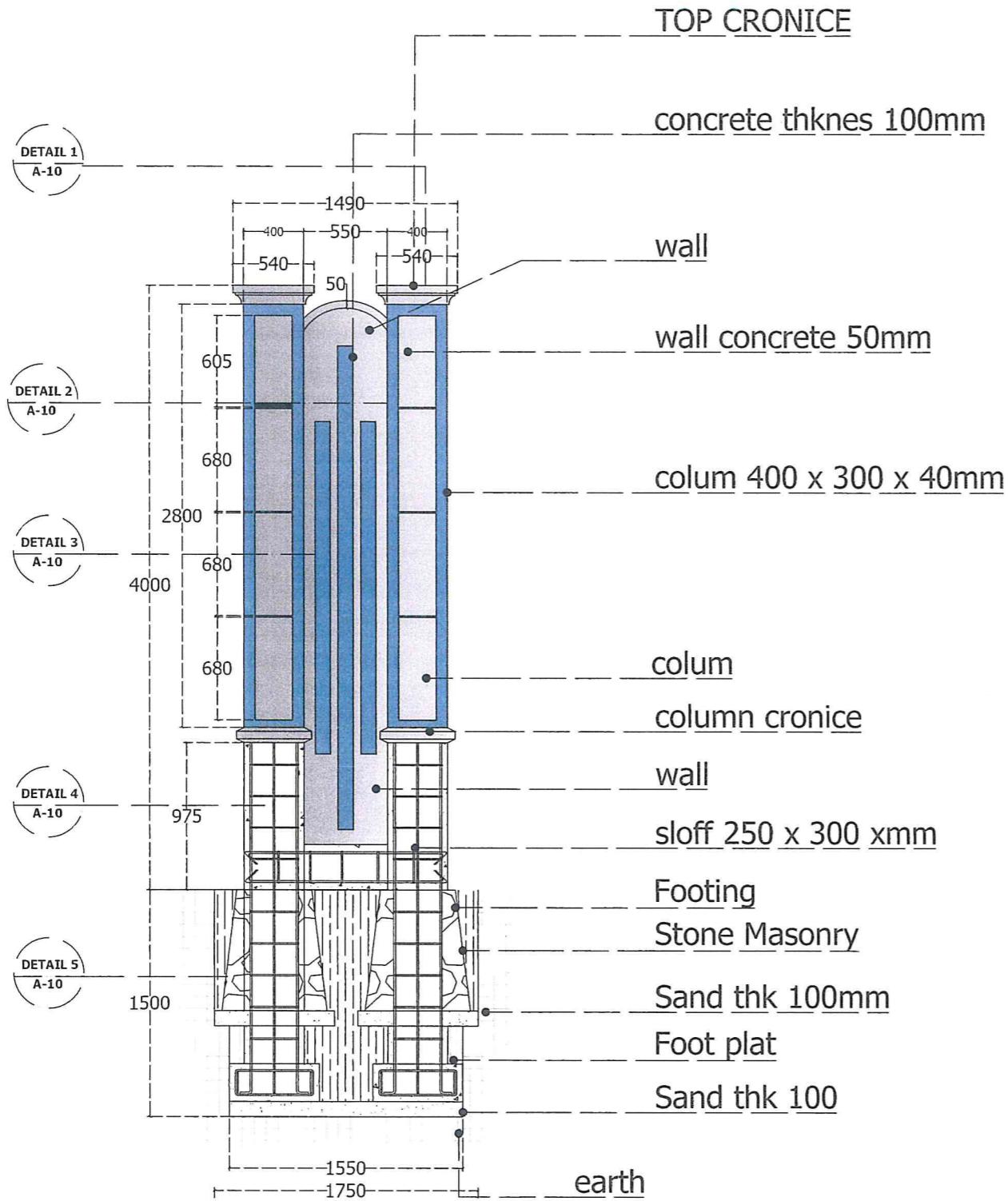
Front Elevation   Left Elevation

- Loco Acrylic thickness  
3 mm & logo thickness  
30 mm

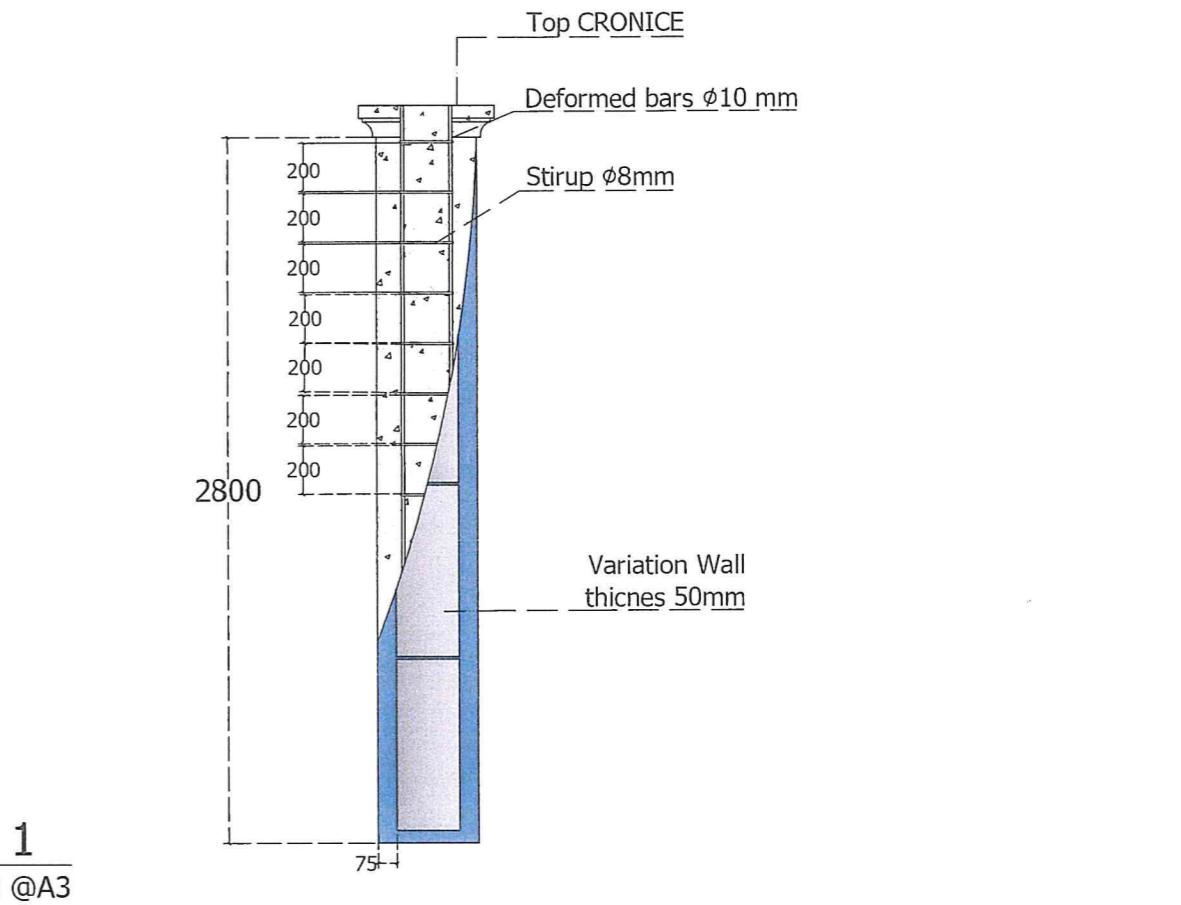
**EMBOSSED LETTER**  
Scale 1 ; 10 @A3

**LOGO ACRYLIC**  
Scale 1 ; 10 @A3

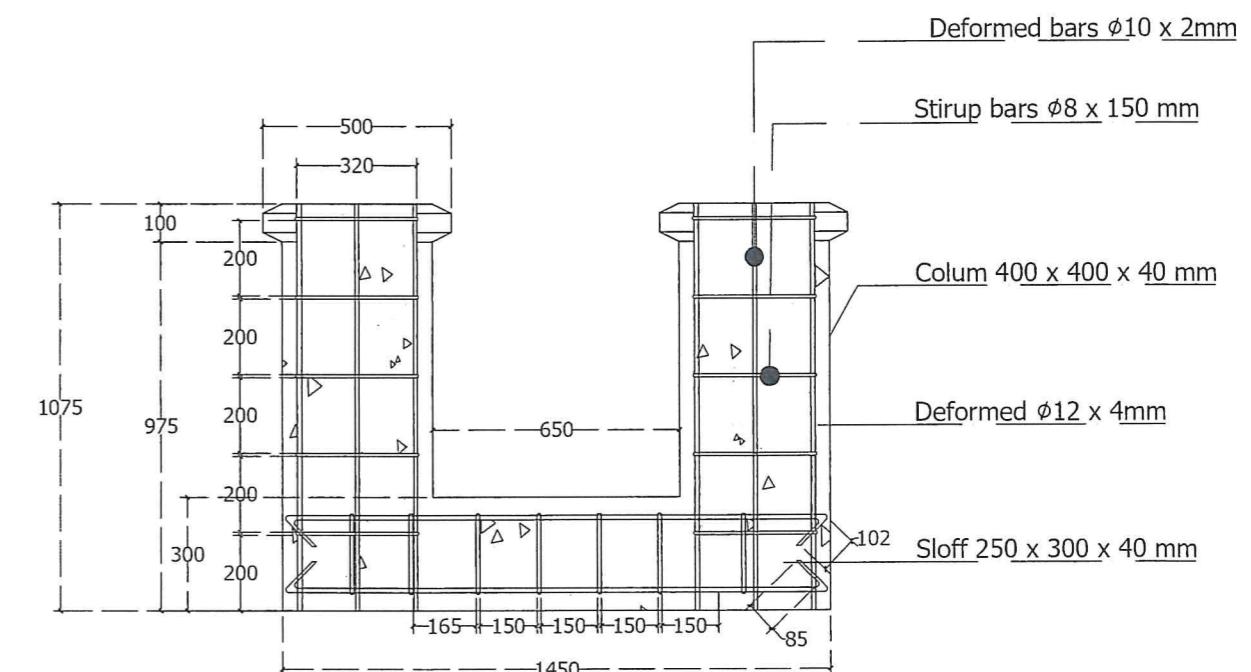
PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE				REPUBLICA DEMOCRATICA DE TIMOR LESTE IN GOVERNO CONSOLIDADO MINISTERIO DOS TRANSPORTES E COMUNICAÇÕES DIRETORIA GERAL DA HABITAÇÃO, MIGRAÇÃO E DESENVOLVIMENTO HUMANO	DRAWING NO:
 MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES República Democrática de Timor-Leste	<b>NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDÉ</b>	EMBOSSED LETTER LOGO ACRILIC	Drawn By:  Natalino P. de Resurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transports and Communication	Certified By:  Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director DNE	A-19
	LOCATION: BATUGEDÉ, BALIBO, BOBONARO	SCALE : 1 ; 10 @A3	DATE : 30 / 07 / 2025	DATE : 31 / 07 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	



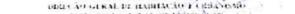
**DETAIL SECTION FOOTING**

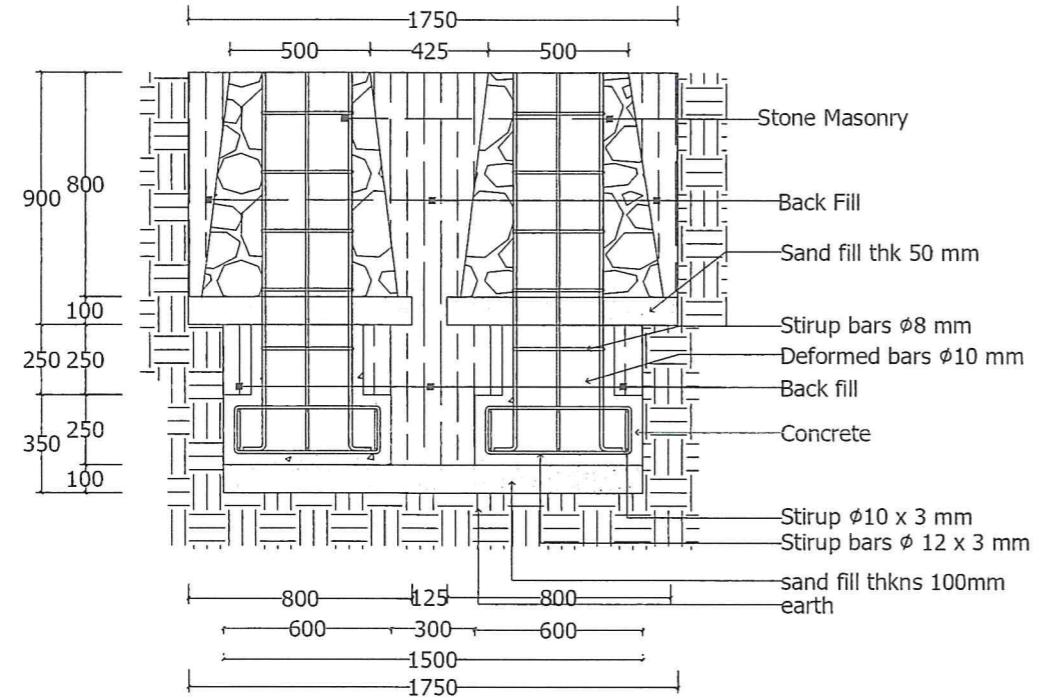


DETAIL 1  
Scale 1 ; 40 @A3



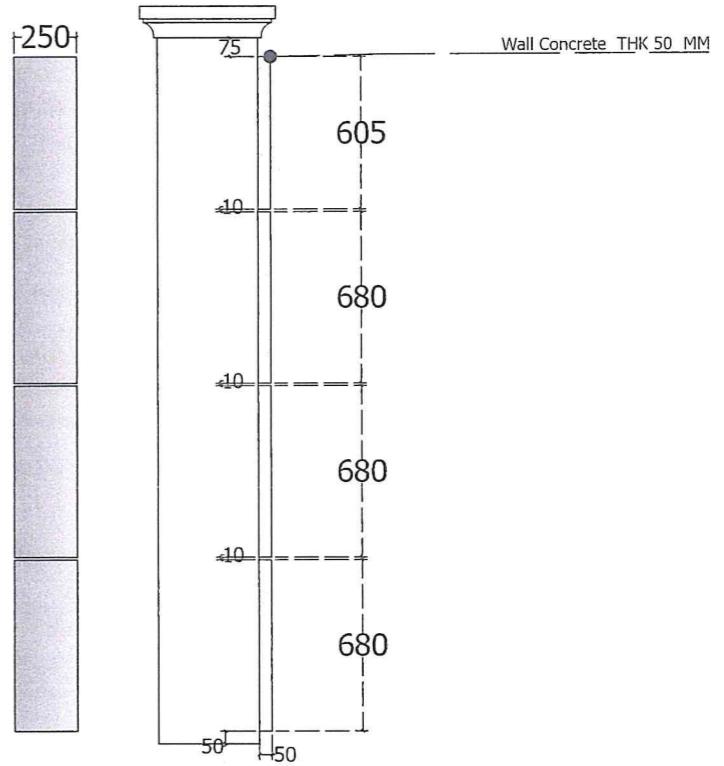
DETAIL 2  
Scale 1 ; 40 @A

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES AGÊNCIA NACIONAL DE INFRAESTRUTURA				DRAWING NO:
 <p>MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Agência Nacional de Infraestrutura</p>	<b>NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE</b>	DETAIL FOOTING	Drawn By:	Certified By:	Approved By:	Certified By:	Approved By:
			 <p>Natalino P. de Resurreição, Lic.Tec Technical Staff</p>	 <p>Maria Antonia Vitor da Costa Directress DNTT</p>	 <p>Constantino Ferreira Soares DG - Transports and Communication</p>	 <p>Engr. Henrique Guterres Chefe Dept. de Edificações Públicas</p>	 <p>Ara Agostinho De Deus Director DNE</p>
LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 : 40 @A3	DATE : 30 / 01 / 2025	DATE : 31 / 01 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025



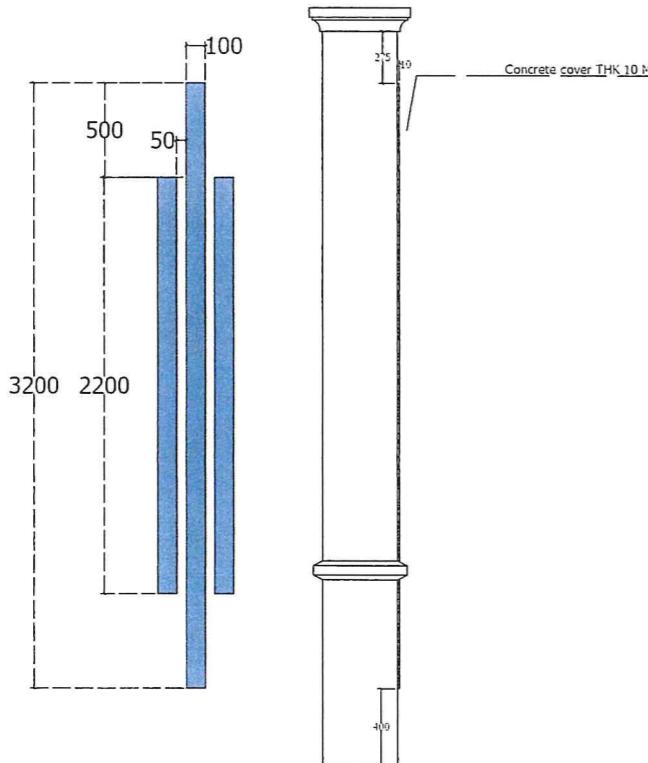
**DETAIL 3**

Scale 1 ; 40 @A3



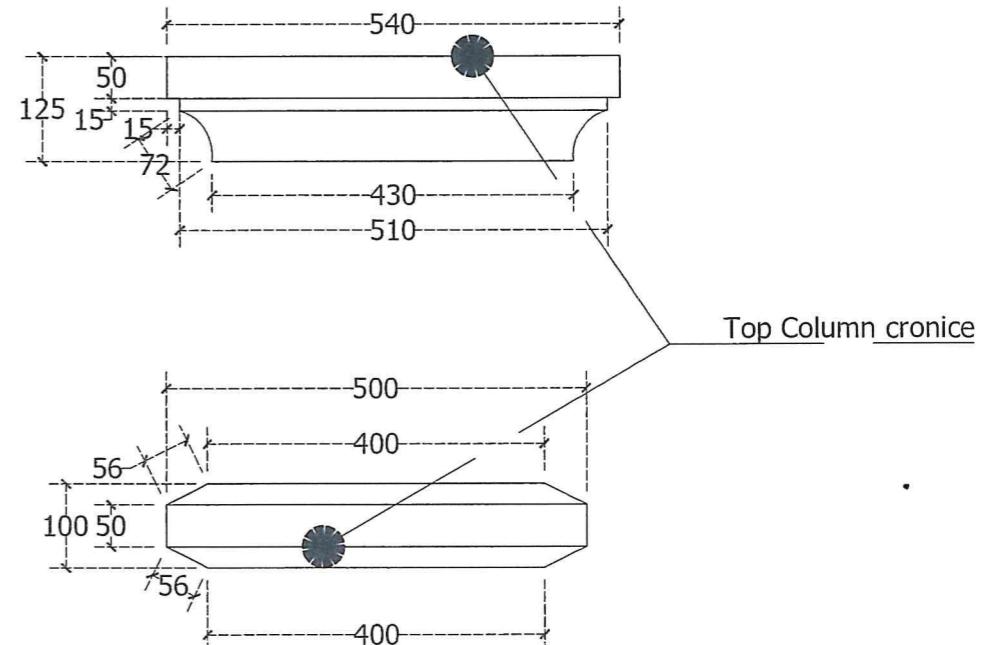
**DETAIL 4**

Scale 1 ; 40 @A3



**DETAIL 5**

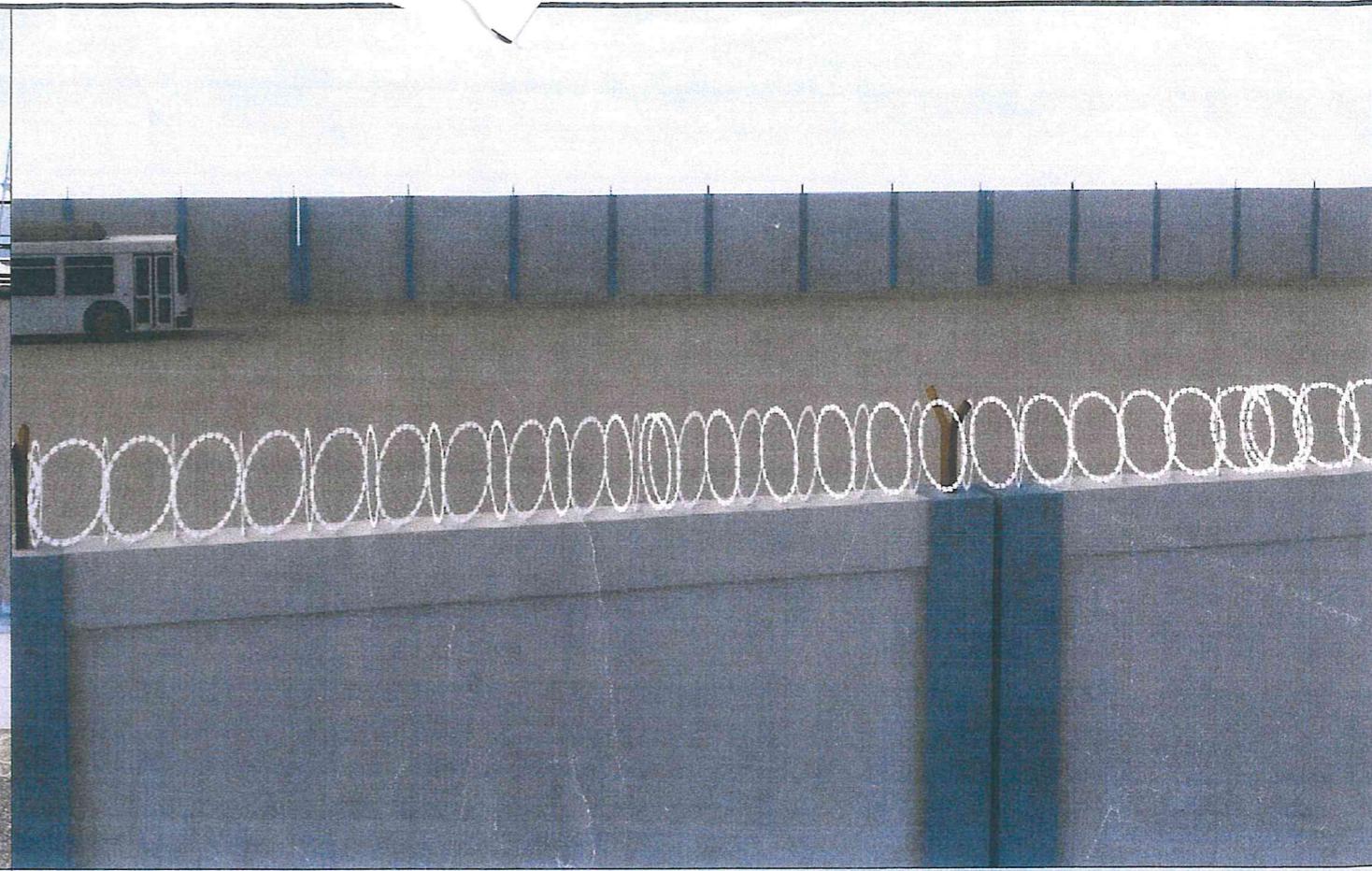
Scale 1 ; 40 @A3



**DETAIL 2**

Scale 1 ; 40 @A3

PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES				DRAWING NO:
	<b>NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE</b>	DETAIL FOOTING	Drawn By: 	Certified By: 	Approved By: 	Certified By: 	Approved By: 
			Natalino P. de Ressureição, Lic.Tec Technical Staff	Maria Antónia Vitor da Costa Directress DNTT	Constantino Ferreira Soares DG - Transportes and Communication	Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Arq. Agostinho De Deus Director DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; 40 @A3	DATE : 20 / 01 / 2025	DATE : 31 / 01 / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025	DATE : ..... / ..... / 2025



PROJECT OWNER:	PROJECT TITLE:	DRAWING TITLE:	MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Bemposta, Avenida da Constituição, Dili, Timor Leste				DRAWING NO:
XI MINISTÉRIO DOS TRANSPORTES E COMUNICAÇÕES Bemposta, Avenida da Constituição, Dili, Timor Leste	NEW CONSTRUCTION WORKS OF WALL AT DNTT POSTO FRONTEIRA, BATUGEDE	3D	Drawn By:  Natalino P. de Ressurreição, Lic.Tec Technical Staff	Certified By:  Maria Antonia Vitor da Costa Directress DNTT	Approved By:  Constantino Ferreira Soares DG - Transportes and Communication	Certified By:  Eng. Hermenegildo Guterres Chefe Dept. de Edificações Públicas	Approved By:  Arq. Agostinho De Deus Director DNE
	LOCATION: BATUGEDE, BALIBO, BOBONARO	SCALE : 1 ; NON SCALE @A3	DATE : 30/07/2025	DATE : 31/07/2025	DATE : ...../...../2025	DATE : 06/08/2025	DATE : ...../...../2025