

GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF TRANSPORT & HIGHWAYS



ROAD DEVELOPMENT AUTHORITY

INVITATION FOR BID (IFB)

The Chairman, Ministry Procurement Committee, on behalf of the Road Development Authority (RDA), invites sealed bids from eligible and qualified bidders for the project described below:-

Contract No.	Contract Name	Engineer's Estimate w/o contingencies (Rs. Mn)	CIDA Grade	Bid Security (Rs. Mn)	Contract Period (Calendar days)
RDA/DC/UVA/FD/ GOSL/2023/02	CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km	498.3	C1 or above	7.0	546
	TO CH 9+300km), INCLUDING TWO BRIDGES AT CH 07+960km AND CH 08+380km	143 1 243 1	inger et Joseph	nawania Lenidan	

The work consists of construction of road and two bridges at CH:07+960 and CH: 08+380 km on Rajamawatha Extension Road from Ketawala to Maspanna in Badulla District.

The above work includes subbase, base, shoulder, surfacing, drainage, structures, incidental construction of road section and substructure, superstructure and approach roads of bridges.

- Bidding will be conducted through the National Competitive Bidding Procedure.
- To be eligible for contract award, the successful bidder shall be currently registered with the Construction Industry Development Authority (CIDA) in grade given in the above table in Bridges and Highways specialty.
- Interested bidders may obtain further information from the following offices and inspect the bidding documents via www.rda.gov.lk from 10/04/2023.
 - a. Provincial Director (Uva), Road Development Authority, No. 40, Dharmapala Mawatha, Bandarawela. Fax: 057-2222170 T.P.: 057-2222170
 - b. Director (Construction), Road Development Authority, 3rd Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

TP:011-2864388 Fax: 011-2861821

- The Pre-Bid meeting will be held at 10:00 hrs on 19/04/2023 at the office of the Provincial Director (Uva), Road Development Authority, No. 40, Dharmapala Mawatha, Bandarawela and a site visit will be arranged thereafter if necessary.
- A complete set of Bidding Document in English language shall be purchased by the interested bidders via email on submission of a written application and valid cash deposit slip of non - refundable tender fee (contract number and name of the contractor should be indicated on the cash deposit slip) to Director Construction, RDA via email from 10/04/2023 until 02/05/2023 during 09:00 hrs to 15:00 hrs for above contract. The email address is construction.rda@gmail.com

Non-refundable tender fee of Rs. 69,000.00 (with VAT) for the bidding document can be paid by depositing cash to the following bank account.

Account Name

Director General - RDA

Account Number

0000001943

Bank Name

Bank of Ceylon - Corporate Branch

Original/valid cash deposit slips should be submitted with the Bids at the submission of bids and it will be checked. The bids without the original/valid cash deposit slip will be rejected.

As per the Public Contract Act No. 3 of 1987, only the Agents and Successful winners of tenders shall be registered in Department of Registrar of Companies.

- Bid shall be accompanied by a Bid-Security for an amount given in the above table. Bid-Security shall be valid up to 25/10/2023.
- Bids shall be delivered in duplicate to the Chairman, Ministry Procurement Committee, Ministry of Transport and Highways, Procurement Division, 7th Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla on or before 14:00 hrs on 03/05/2023. Late bids will be rejected. Bids will be opened soon after the closing, in the presence of the bidders' or their representatives who choose
- 10. Bid shall be valid up to 27/09/2023

The Chairman, Ministry Procurement Committee, Ministry of Transport & Highways, **Procurement Division,** 7th Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla.

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF TRANSPORT AND HIGHWAYS

ROAD DEVELOPMENT AUTHORITY



BIDDING DOCUMENT

FOR

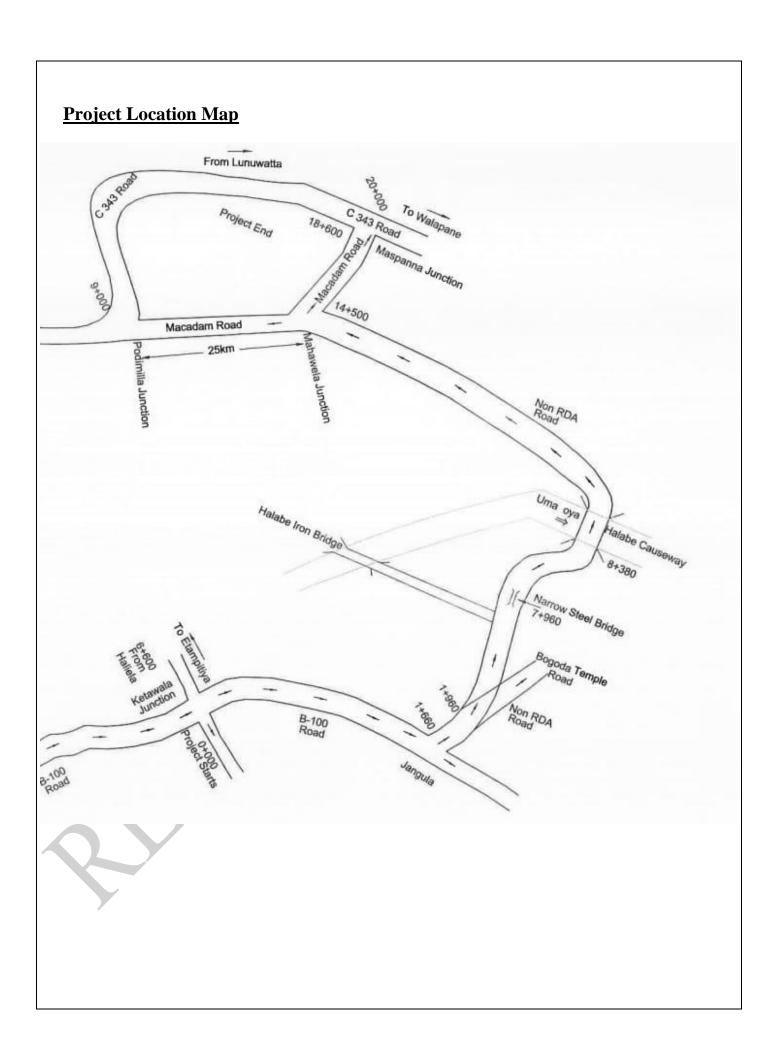
CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km

CONTRACT NO. RDA/DC/UVA/FD/GOSL/2023/02

BID SUBMITTED BY	
[Name of the Bidder]	

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Introduction

This Bidding Document has two parts, namely, Volume 1 and Volume 2.

The bidders are expected to buy the following Standard Bidding Document from the Construction Industry Development Authority (CIDA) (former ICTAD): -

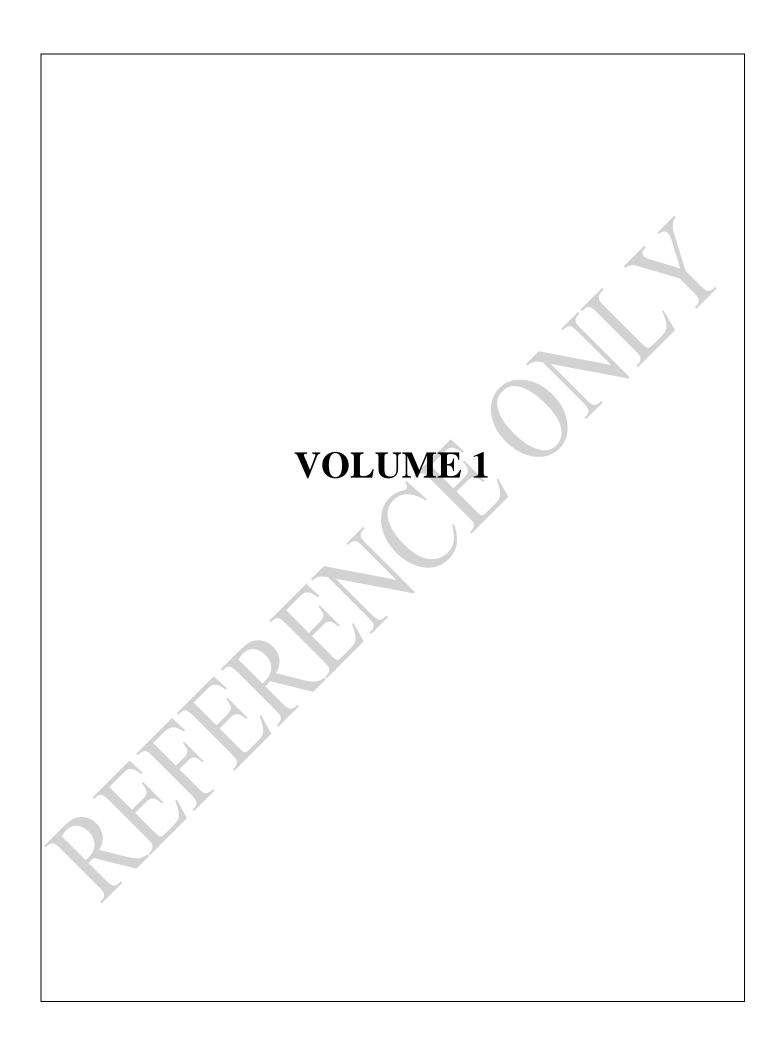
STANDARD BIDDING DOCUMENT
PROCUREMENT OF WORKS
MAJOR CONTRACTS
SECOND EDITION – JANUARY 2007 with addendum issued in October 2009 by ICTAD

ICTAD PUBLICATION NO. – ICTAD/SBD/02

This Bidding Document shall be read in conjunction with the above Standard Bidding Document.

The Address of CIDA is

Construction Industry Development Authority 'Savsiripaya' 123, Wijerama Mawatha, Colombo-07

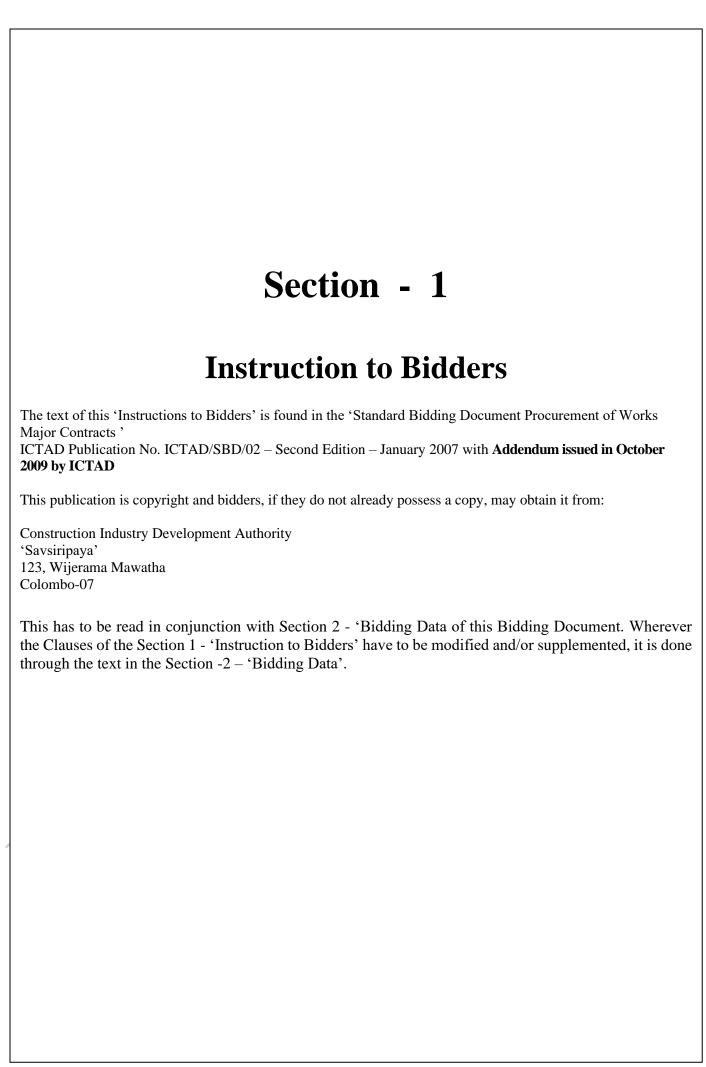


VOLUME 1

Section 1 Instruction to Bidders

Section 3 Conditions of Contract

Section 5 Standard Forms (Contract)



Section - 5 Standard Forms (Contract) • Letter of Acceptance • Performance Guarantee • Form of Agreement • Advance Payment Security • Retention Money Guarantee

FORM OF LETTER OF ACCEPTANCE

[Date]
[Contractor's Name & Address]
This is to notify you that your bid dated for the construction and remedying the defects of the 'CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km ' under Contract No: RDA/DC/UVA/FD/GOSL/2023/02 for the Contract Price of Rupees
You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract Documents.
The Commencement Date shall be
The amount of Performance Security is
The Performance Security shall be submitted on or before
Director General Road Development Authority

FORM OF PERFORMANCE SECURITY

(Unconditional)

[Issuing Agency's Name, and Address of Issuing Branch or Office]
Beneficiary: Director General, Road Development Authority (hereinafter called and referred to as "the Employer") 1 st floor, "Maganeguma Mahamedura", 216, Denzil Kobekaduwa Mawatha, Battaramulla.
Date:
PERFORMANCE GUARANTEE No.:
We have been informed that
(hereinafter called, "the Contractor") has entered into Contract No RDA/DC/UVA/FD/GOSL/2023/02date
Furthermore, we understand that, according to the Conditions of the Contract, a performance guarantee required.
At the request of the Contractor, we
This guarantee shall expire, no later than the day of2023. [28 days beyond the time for Completion] and any demand for payment under it must be received by us at this office on or before that data
Name, Signature and the Seal of the Agency: Name of the Organization Designation Date: Witness: Name NIC No Signature Nic No Signature
Signature

FORM OF AGREEMENT

Developm "Maganeg referred to	ent Authority established by the Road Devel uma Mahamedura", 216, Denzil Kobbekaduv	of[Month] 2023, between the Road opment Authority Act No. 73 of 1981, situated at wa mawatha, Battaramulla, (hereinafter called and d						
9+300 km Contract N Employer	TION ROAD FROM KETAWALA TO n), INCLUDING TWO BRIDGES AT No: RDA/DC/UVA/FD/GOSL/2023/02 (herein	e 'CONSTRUCTION OF RAJAMAWATHA MASPANNA (FROM CH 7+560km TO CH CH 7+960 km AND CH 8+380 km ', under nafter called and referred to as "the Works") and the the execution and completion of such Works and						
Th	e Employer and the Contractor agree as follows:	lows:						
1.	In this Agreement words and expressions sassigned to them in the Contract.	shall have the same meanings as are respectively						
2.	2. In consideration of the payments to be made by the Employer to the Contractor as indicated in the Agreement, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.							
3.	3. The Employer hereby covenants to pay the Contractor in consideration of the execution are completion of the Works and remedying any defects therein, the Contract Price or such other surface as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.							
	ss whereof the parties hereto have caused the ioned in accordance with laws of Sri Lanka.	is Agreement to be executed on the day and year						
Name: .		Chairman Road Development Authority						
Authorised	Signatory of Contractor							
Common S	Common Seal Board Member, RDA On behalf of the Employer							
		Common Seal						
In the pres	ence of Witness:	In the presence of Witness:						
Name .	/	Name						
		NIC No.						
		Address						

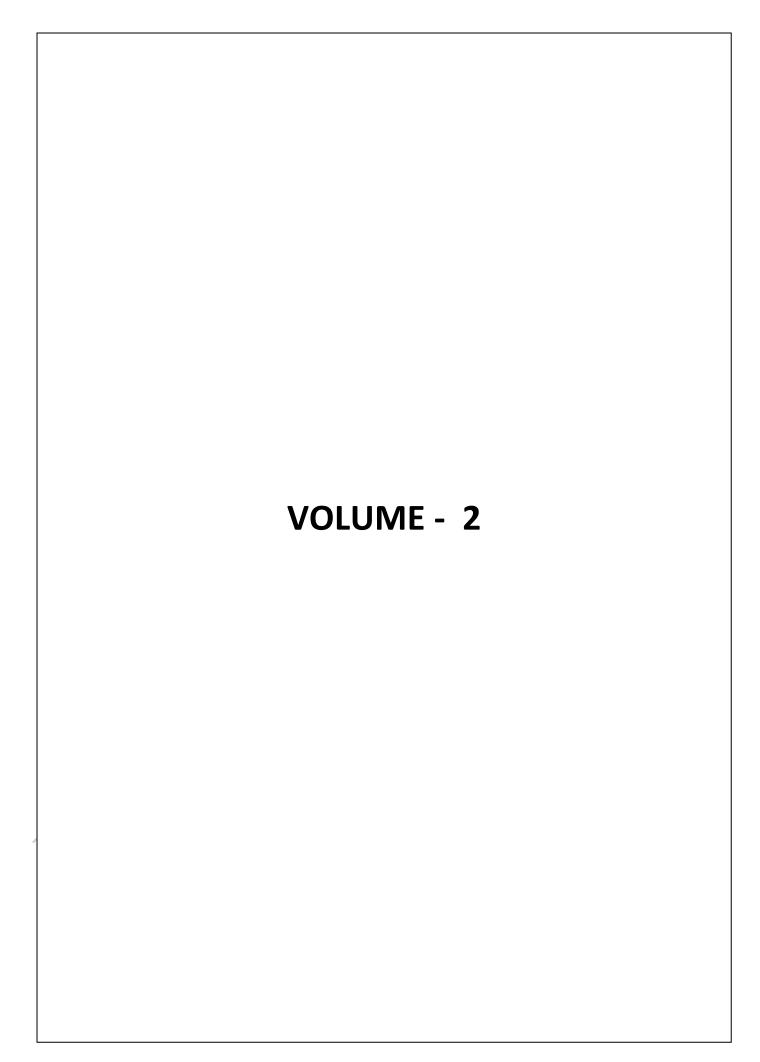
FORM OF ADVANCE PAYMENT SECURITY

[Name and address of Agency, and Address of Issuing Branch or Office]
Beneficiary: Director General, Road Development Authority (hereinafter called and referred to as "the Employer") 1 st floor, "Maganeguma Mahamedura", 216, Denzil Kobekaduwa Mawatha, Battaramulla.
Date:
ADVANCE PAYMENT GUARANTEE No.:
We have been informed that
Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum
At the request of the Contractor, we
The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor.
This guarantee shall expire on[insert the date, 28 days beyond the Time for Completion]
Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.
Name, Signature and the Seal of the Agency: Designation
Witness: NameSignature
Name NIC No Signature

FORM OF RETENTION MONEY GUARANTEE

(Issuing Agency's Name and Address of Issuing Branch or Office

·	-	ority, 1st Floor, Maganeguma Mahamedura",216
Denzil Kobekaduwa Mawath	ia, Battaramuna.	
Date:		
RETENTION MONEY GO	JARANTEE No.:	
entered into Contract No: R execution of 'CONSTE KETAWALA TO MASP	DA/DC/UVA/FD/GOSL/202 RUCTION OF RAJAMA ANNA (FROM CH 7+560)	ontractor) (hereinafter called "the Contractor") had 23/02 dated
over and the first half of the	•	ions of Contract, when the works have been taken trified for payment, payment of the second half of oney guarantee.
any sum or sums not exceedi	ng in total an amount of	of agency) hereby irrevocably undertake to pay you contain figures)
accompanied by a written sta		eceipt by us of your first demand in writing ctor is in breach of its obligation under the Contract ecordance with the Contract.
_		28 days after the end of the Defects Notifications guarantee must be received by us at this office of
Name, Signature and the Seal or Name of the Organization Designation		
		Signature
Nama	NIC No.	Signature



- Invitation For Bids
- Section 2 Bidding Data
- Section 4 Contract Data
- Section 6 Specifications
- Section 7 Form of Bid
- Section 8 Bill of Quantities
- Section 9 Schedules
- Section 11 Standard Forms (Bid)
- Section 10 Drawings

GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF TRANSPORT AND HIGHWAYS ROAD DEVELOPMENT AUTHORITY INVITATION FOR BIDS

1. The Chairman, Ministry Procurement Committee, on behalf of the Road Development Authority (RDA), invites sealed bids from eligible and qualified bidders for the *project* described below:-

Contract No.	Contract Name	Engineer's Estimate w/o contingencies (Rs. Mn)	CIDA Grade	Bid Security (Rs. Mn)	Contract Period (Calendar days)
RDA/DC/UVA/FD/ GOSL/2023/02	CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km), INCLUDING TWO BRIDGES AT CH 07+960km AND CH 08+380km	498.3	C1 or above	7.0	546

 The work consists of construction of road and two bridges at CH:07+960 and CH: 08+380 km on Rajamawatha Extension Road from Ketawala to Maspanna in Badulla District.

The above work includes subbase, base, shoulder, surfacing, drainage, structures, incidental construction of road section and substructure, superstructure and approach roads of bridges.

- 3. Bidding will be conducted through the National Competitive Bidding Procedure.
- 4. To be eligible for contract award, the successful bidder shall be currently registered with the Construction Industry Development Authority (CIDA) in grade given in the above table in **Bridges and Highways** specialty.
- Interested bidders may obtain further information from the following offices and inspect the bidding documents via www.rda.gov.lk from 10/04/2023
 - a. Provincial Director (Uva), Road Development Authority, No. 40, Dharmapala Mawatha, Bandarawela. T P 057-2222170 & Fax: 057-2222170
 - b. Director (Construction), Road Development Authority, 3rd Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla. T P:011-2864388 Fax: 011-2861821
- 6. The Pre-Bid meeting will be held at 10:00 hrs. on 19/04/2023 at the office of the Provincial Director (Uva), Road Development Authority, No. 40, Dharmapala Mawatha, Bandarawela and a site visit will be arranged thereafter if necessary.
- 7. A complete set of Bidding Document in English language shall be purchased by the interested bidders via email on submission of a written application and valid cash deposit slip of non refundable tender fee (contract number and name of the contractor should be indicated on the cash deposit slip) to Director Construction, RDA via email from 10/04/2023 until 02/05/2023 during 09:00 hrs to 15:00 hrs for above contract. The email address is construction.rda@gmail.com

Non-refundable tender fee of Rs.69, 000.00 (with VAT) for the bidding document can be paid by depositing cash to the following

bank account.

Account Name : Director General – RDA

Account Number : 0000001943

Bank Name : Bank of Ceylon - Corporate Branch

Original/valid cash deposit slips should be submitted with the Bids at the submission of bids and it will be checked. The bids without the original/valid cash deposit slip will be rejected.

As per the Public Contract Act No. 3 of 1987, only the Agents and Successful winners of tenders shall be registered in Department of Registrar of Companies.

- 8. Bid shall be accompanied by a Bid- Security for an amount given in the above table. Bid- Security shall be valid up to 25/10/2023.
- 9. Bids shall be delivered in duplicate to the Chairman, Ministry Procurement Committee, Ministry of Transport and Highways, Procurement Division, 7th Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla on or before 14:00 hrs on 03/05/2023 Late bids will be rejected. Bids will be opened soon after the closing, in the presence of the bidders' or their representatives who choose to attend.
- 10. Bid shall be valid up to 27/09/2023

The Chairman,
Ministry Procurement Committee
Ministry of Transport & Highways,
Procurement Division
7th Floor, "Maganeguma Mahamedura", Denzil Kobekaduwa Mawatha, Battaramulla.

SECTION - 2

BIDDING DATA

This Section shall be read in conjunction with Section 1- 'Instruction to Bidders', and is intended to provide specific information in relation to corresponding clauses in Section 1. Wherever there is a discrepancy, the provisions of Section-2-.Bidding Data shall supersede those provided in the Section 1 – Instructions to Bidders.

The Clause numbers given in this Section correspond to the Clauses with the same numbers in the Section 1 – 'Instruction to Bidders'.

Whenever a Clause number appears in this Section, it means the information in the corresponding Clause in Section 1 is supplemented and/or modified according to the information in the Clause in Section 2.

If a Clause number does not appear in this Section, it means the Clause with the corresponding number in Section 1, remains unchanged.

BIDDING DATA

Instructions to Bidders Clause Reference

1.1 Employer's Name and Address

Employer is the Director General, Road Development Authority established by the Road Development Authority Act No. 73 of 1981.

Address of the Employer is

Director General

Road Development Authority

1st Floor, "Maganeguma Mahamedura" 216, Denzil Kobbekaduwa Mawatha, Battaramulla. Telephone: 0112862795 Fax: 0112872272

E-mail:

Scope of Works

'CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km '

The work consists of construction of road section and two bridges at CH:07+960 and CH: 08+380 km on Rajamawatha Extension Road from Ketawala to Maspanna.

The road construction includes subbase, base, shoulder, surfacing, drainage, structures and incidental construction.

The two-bridge construction includes construction of substructure and superstructure (with 9.5 m and 13.5m PSC concrete beams respectively) and construction of approaches.

1.2 Time for Completion

The Time for Completion of the whole of the Works shall be **546 Days** from the Commencement Date.

2.1 Source of funds

Budget allocation under Flood damage rehabilitation for Road Development Authority. The source of funds is Government of Sri Lanka (GOSL)

3 Add a new sub-Clause 3.3

Clause 3.3

A misrepresentation or omission of facts in order to influence the procurement process shall make the Bid non-responsive and if detected after the award the bidder could be subjected to legal prosecution.

4.1 **Qualification Information**

The following information shall be provided in Section -9 – Schedules;

•	CIDA registration										
	Registration number	 	 			 	 				
	Grade	 	 			 	 				
	Specialty	 	 	 	 	 	 		 		
	Expiry date			 		 		 	 	 	

- If not VAT registered, self declaration on VAT registration
- VAT registration number
- If a Joint Venture, the agreement

- Construction Programme with critical path and cash flow forecast.
- Legal status of the bidder (sole proprietor, Partnership, Company etc.)
- Authentication signatory (written Power of Attorney)
- Total monetary value of construction work performed for each of the last five years.
- Experience in works of a similar nature and size for last ten years.
- Availability of Construction equipment.
- Availability of Staff
- Work plan and methods
- Information on current work in hand
- **4.2(a)** The bidders shall have a valid registration in Grade **C1 or above** in **Bridges and Highways** Specialty, on the date of closing of bids.
- **4.2(b)** Average annual volume of construction work performed during last five years shall be at least **Rs. 608.0 million.**

Annual Average Construction Turnover (AACT) is calculated as follows,

AACT =
$$\sum$$
ACTn where, n= 1st5th year (last five years)

ACTn - Annual Construction Turnover of nth year (from the audited financial report)

4.2(c) The Bidder should have experience as prime contractor in the construction of at least one work of a nature and complexity similar to the Works, the value of which should be at least Rs. 426.0 million during the last ten years and at least one bridge of pre-tensioning deck along with beam launching and road construction experience. (To comply with this requirement, works cited should be at least 70 percent complete).

Capacity

4.2(d) Essential equipment

Machinery

Proposals for the timely acquisition (own, lease, hire, etc.) of the following essential equipment shall be ,

<u>Maciliner y</u>	Capacity
1. Dump Truck	4-10 Ton
2. Excavator	120 Hp
3. wheel Loader	1.5 Cum or above
4. Generator Set	10-100 KVA
5 Mobile Crane	20-25 MT
6. Crawler Cranes	100-150 MT
7. Backhoe Loader	50 - 100 Hp/1.0Cum
8 Breakers	
9. Asphalt Pavers	10MT
10. Pneumatic tired roller	8-10 Ton
12.Concrete mixture	400 ltr
13. Air compressors	250 CFM
14. Cargo truck with Crane	10 Ton
15. Beam Launchers	
Vibrating roller	10Ton
17. Motor Grader	120-140 HP

4.2 (e)

The Project Manager shall have following qualification & experience,

Four Years B.Sc Engineering (Civil) Degree from a University in Sri Lanka or equivalent Civil Engineering Qualification recognized by the UGC and Institution of Engineers, Sri Lanka (IESL). OR Passed Part I, II and III examinations of the Institution of Engineers, Sri Lanka(IESL) OR B.Tech Degree in Civil Engineering from the Open University of Sri Lanka. The person shall have Corporate membership (Charted Engineer) of the Institution of Engineers, Sri Lanka (IESL) or any other recognized institution by the Institution of Engineers, Sri Lanka (IESL) with 5 years experience in post charter in Bridge and Highway Construction and shall have ability to lead and direct multi-disciplinary teams and experience in proper deployment and efficient management of human and other resources.

4.2(f) Liquid assets and / or credit facilities required

The minimum amount of liquid assets available shall be Rs 102.0 million.

The minimum amount of liquid assets available is calculated as follows.

$$X = (A - L) - 0.1 W + C$$

Where,

X = Minimum amount of liquid assets available,

A = Current assets as given in the latest audited financial statements,

L = Current liabilities as given in the latest audited financial statements,

W = Outstanding contractual commitments as supported by an affidavit as per Form No. 07,

C = Project specific revolving line of credit given by a bank as per given Form

Note: Available Working Capital of bidder should be equal or greater than 50% of minimum amount of the Liquid Asset (i.e. Rs. 51.0 million). Line of Credit shall be provided only to satisfy the balance amount of the required amount of the Liquid Asset.

Non - Performing Contracts

4.2 (h)

Criteria		Compliance Requirements							
		Joint Venture							
Requirement	Single Entity	All Partners Combined	Each Partner	One Partner	Submission Requiremen ts				
Non-performance* in a contract has not been occurred as a result of Contractor's default	must meet requirement by itself or as partner of JV	not applicable	must meet requirement by itself or as partner of JV	not applicable	Schedule No. 09 (a) & 09 (b)				

- * All RDA projects (foreign & local funded) shall be considered for assessment of Non-performing Contracts (single entity contractor / any JV / any each partner of the JV, nominated sub contractor) based on the following criteria.
- Any bidder who submits bid to this contract shall be disqualified for the award of
 the contract, if Notice to Correct (NC) has been issued as per Clause 15.1 of SBD 2
 Condition of Contracts on the poor performance of the Contractor or similar notice
 as per the relevant Conditions of Contract (COC) and is imposed before 28 days
 prior to date of bid opening, unless the Engineer certifies that Contractor has
 corrected the contents of the Notice to Correct. This certificate shall be accompanied
 with the bid; or

If any Contract has been terminated due to the Contractor's default within last five years prior to 05/04/2023, he shall be disqualified for the award of contract.

Add a new sub clause 4.2 (i) Pending Litigation and Arbitration

4.2 (i)

Criteria	Compliance Requirements			Documents	
		Joint Venture		Submission	
Requirement	Single Entity	All Partners Combined	Each Partner	One Partner	Requiremen ts
All pending litigation and arbitration, if any, shall be treated as resolved against the Bidder and so shall in total not represent more than fifty (50%) percent of the Bidder's net worth calculated as the difference between total assets and total liabilities.	must meet requireme nt by itself or as partner to past or existing Joint Venture	not applicable	must meet requirement by itself or as partner to past or existing Joint Venture	not applicable	Schedule No. 10

10.1 Clarification of Bidding Documents

Employer's address for clarification of bidding documents is.

Director (Construction),

RDA, 3rd Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla

Phone: 011 – 2864388 Fax No. 011 – 2861821.

14.3 Add following to this clause

All taxes except VAT shall be incorporated to the rates.

14.4 Adjustment for change in cost

The Contract is subjected to price adjustments.

Period of Bid validity:

The Bid shall be valid up to 27/09/2023.

17.1 Amount of Bid security:

The amount of Bid Security is Sri Lanka Rs. 7.0 Mn.

17.2 Validity of Bid Security

The Bid Security shall be valid up to 25/10/2023.

The form of Bid Security shall be strictly in the format given in the Bidding Document.

Any unconditional guarantee issued by a bank registered bank in the Central Bank of Sri Lanka or CGF or Insurance company except ABC Insurance Company (Pvt) Ltd is acceptable.

18. Alternative Proposals by Bidders

Delete entire Clause and substitute with the following:-"Bidders are not allowed to submit alternate proposals"

19.1 Pre – Bid meeting

Pre-bid meeting will be held on **19/04/2023** at Provincial Director (Uva), Road Development Authority, No. 40, Dharmapala Mawatha, Bandarawela at 10:00 hrs. The site visit shall be arranged thereafter with RDA representative, if necessary.

20.4 Add new Sub Clause 20.4

All pages of the Bidding documents shall be signed by the bidder and his seal affixed.

21.2 Submission of Bid

21.2(a) Employer's address for the purpose of bid submission is;

Chairman,
Ministry Procurement Committee,
Ministry of Transport and Highways,
Procurement Division

7th floor, "Maganeguma Mahamedura" 216, Denzil Kobbekaduwa Mawatha,

Battaramulla

21.2(b) Name and Identification number of Contract

The name of the Contract 'CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km ' Contract Number is RDA/DC/UVA/FD/GOSL/2023/02

22.1 Deadline for submission of Bids

The deadline for submission of bids is 14:00 hrs on 03/05/2023.

Any bid received after the deadline for submission of bid will be returned unopened to the bidder.

25.1 Bid Opening

The Bids shall be opened immediately after the deadline for submission of Bids, mentioned in sub-clause 21.2 & 22.1

30.6 Add new sub clause 30.6

To ensure that the bids made not unrealistic, following criteria will be adopted,

- a) If the bid value is 11% to 19% less than the engineer's estimate, the performance bond will be increased by 5%.
- b) If the bid value is 20% to 29% less than the engineer's estimate, the performance bond will be increased by 10%.

C)If the bid value is 30% or higher percentage less than the engineer's estimate, the bid will be rejected.

Add new sub clause 30.7

30.7

Considering the role of the State Owned Enterprises (SOE) in these industries, when such SOE submits a bid for a contract then such SOE will be given 5% preference over all other contractors. This will be considered only when the Financial Evaluation and not in Technical Evaluation.

32.3 Add new sub Clause 32.3

After evaluation of Bids in accordance with the procedures described under Clauses 28, 29, 30 and 31, the Employer will inform to all the bidders in writing the selection of the successful bidder and the intention of contract award to such bidder. The unsuccessful bidders if they so wish, within one week of such notice may make representation to the Procurement Appeal Board at the address given below. Such representation shall be self-contained to enable the Appeal Board to arrive at a conclusion and a cash deposit to an amount given below shall be made. The Appeal Board may request the bidder who had made representation to submit further evidence during investigations. The cash deposit will be forfeited unless the Employer has changed the original contract award decision in favour of the bidder who has made such representation.

Address: The Secretary

Ministry of Transport & Highways, 8th floor, "Maganeguma Mahamedura", 216, Denzil Kobekaduwa Mawatha,

Battaramulla.

Cash Deposit: Rupees 25,000/=

34.0 Authority for Signing the Agreement

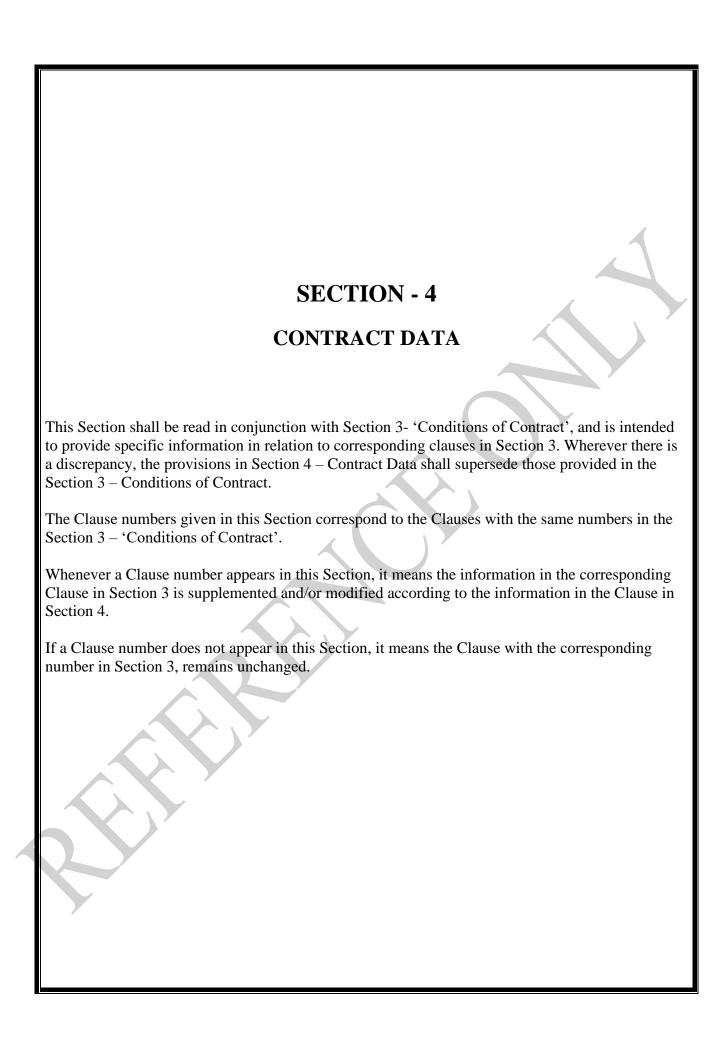
Add RDA Circular RDA/DPR-AD-01/06 dated 15th June 2020 regarding empowered officers for signing the contract agreement

35.1 Amount of Performance Security

The format of the security shall be strictly in accordance with the format given in Section 5.

The amount of Performance Security is 5% of the Initial Contract Price, subject to sub clause 3.1 (v) of Public Finance Circular No. 03/2020 (i) dated 11.01.2021 issued by Ministry of Finance.

The Performance Security shall be valid until 28 Days beyond the time for completion. Any unconditional bank guarantee issued by registered bank in the Central bank of Sri Lanka or CGF is acceptable.



CONTRACT DATA

Employer's Name: Director General, Road Development Authority Employer's Address: Director General, Road Development Authority 18 Floor, "Maganeguna Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla 1.1.2.4 The Engineer: The Engineer will be notified later. 1.1.3.3 Time for Completion is 546 Days 1.1.3.7 Add following, The Defects Notification Period is one Year. 1.3 (b) Employer's Address Road Development Authority, 1st Floor,"Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla. 2.1 Engineer's Address: will be notified later 3.1 The Start Date shall be 14 Days from the receipt of the Letter of Acceptance The Engineer shall obtain the specific approval of the Employer before taking action under the following Sub — Clauses of these Conditions. I. Clause 13. 3 - Variation Procedure II. Clause 4.4 - Subcontractors III. Clause 4.4 - Subcontractors III. Clause 8.5 - Suspension of Work VI. Clause 8.8 - Suspension of Work VI. Clause 8.1 - Prolonged Suspension VII. Clause 11.3 - Extension of Time for Completion V. Clause 8.1 - Extension of Defects Notification Period IX. Clause 11.3 - Extension of Defects Notification Period IX. Clause 11.4 - Performance Certificate X. Clause 13.6 - Adjustments in Changes in Legislation XI. Clause 16.4 - Payment on Termination Notwithstanding any obligations set out elsewhere in this Contract to obtain approval from the Employer, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties or responsibilities under the Contract, instruct the Contractor to descent all such work or to do such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor rise, in respect of such instruction, in accordance with Clause 13 and the Works or to describe the response proteins with the contract to for any of the Employer, with any such instruction of the Engineer. The Engineer shall determine a	COC Clause Number/s	
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4.2 Performance Security

Amount of Performance Security is 5% of the Initial Contract Price, subject to sub clause 3.1 (v) of Public Finance Circular No. 03/2020 (i) dated 11.01.2021 issued by Ministry of Finance.

The acceptable format of the Performance Security is given in this Bidding Document.

Any unconditional bank guarantee issued by registered bank in the Central bank of Sri Lanka or CGF is acceptable.

Change the Heading from 'Quality Assurance' to 'Quality Control'

Replace the text of the Sub-Clause 4.17 with the following text:

4.17

4.17(a) Identifying Defects

The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found and shall specify a time within which the defects are to be rectified. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

4.17(b) Tests

If the Engineer instructs the Contractor to carry out a test which is not specified in the Specification or Bills of Quantities in sufficient details to enable the Contractor to have priced or allowed for the same in the Bid and the test shows that the workmanship or Material is defective then the Contractor shall pay for the tests and samples.

If the test shows that the workmanship and Materials is in accordance with the Contract and if the Contractor suffers delay and /or incurs Cost from complying with these instructions or as a result of delay for which the Employer is responsible, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 19 (Contractor's Claims) to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 (Extension of Time for Completion): and
- (b) payment of any such Cost plus reasonable profit, which shall be included in the Contract Price.

After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.4 (Determinations) to agree or determine these matters.

The Contractor shall promptly forward to the Engineer duly certified reports of the tests. When the specified tests have been passed, the Engineer shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Engineer has not attended the tests, he shall be deemed to have accepted the readings as accurate.

4.17(c) Correction of Defects

4.17(c-1)

The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Notification Period, which begins at completion, and is defined in the Contract Data.

4.17(c-2)

Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer's notice.

	A 4.57 ()		
	On completion of the Defects Notification Period and correction of Defects in accordance with Sub-Clause 4.17(c-2) or 4.17(d), and on certification of the final payment, the Engineer shall issue the Final Payment Certificate to the Contractor		
	4.17(d) Uncorrected Defects If the Contractor has not corrected a Defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.		
8.7	Liquidated Damages		
	The Liquidated Damages for the whole of the works shall be Rs. 304,000.00 per Day.		
	The maximum amount of Liquidated Damages for the whole of the works shall be 10% (ten percent) of the Initial Contract Price.		
12.2(b)	The method of Measurement shall be as per the Contract		
13.3	<u>Variation Procedure</u>		
	Replaced with		
	Variation Exceeding 25 percent		
	If on the issue of the Taking Over Certificate for the whole of the Works it is found that there is a reduction or increase of more than 25% in the Quantity of any unit priced items in the original Bill of Quantities for which the total cost based on the rate for that item in the Bill of Quantities is more than 5% of the "effective Contract Price" (which for the purpose of this sub- clause shall be the contract price, excluding the provisional sums and allowances for day works, if any, and the adjustment of price under sub clauses 13.6 and 13.7 at statement at completion) then,		
	a. The excess quantity of particular item shall be paid as describes in following table		
	Excess quantity Up to 25% Original Bill of Quantity rate Between more than 25% and less than 50% Quantity rate more than 50% 83% of Original Bill of Quantity rate Quantity rate		
	b. Quantity reduction of particular item shall be paid as described below		
	If the final quantity of work done in particular item is 75% of the original Bill of Quantities or less shall be paid at the rate shown in the Bill of Quantities. In addition a payment of 17% of the difference between 75% of the estimated amount for that item and the final amount for that item shall be made to the Contractor.		

13.4(b) Percentage for adjustment of Provisional Sums

- 1. For the works executed by Utility Authorities 10%
- 2. For the works directly executed by the Contractor -20%
- 3. For supplying and services-10%

13.7 Price Adjustment

The contract is subjected to price adjustment

Input	Input Name	Percentage
M3	Cement	15.32
L3	Unskilled Labour	9.85
L2	Semi-skilled Labour	9.04
P2	Heavy Equipment	8.53
M8	Sand	7.57
M7	Metal	7.34
M13	Reinforcement	6.49
P3	Fuel	6.40
L1	Skilled Labour	5.96
M21	Form Work Timber	5.58
M45	Earth	4.23
M30C	Bitumen	2.38
P1	Small Equipment	1.31
		90.00

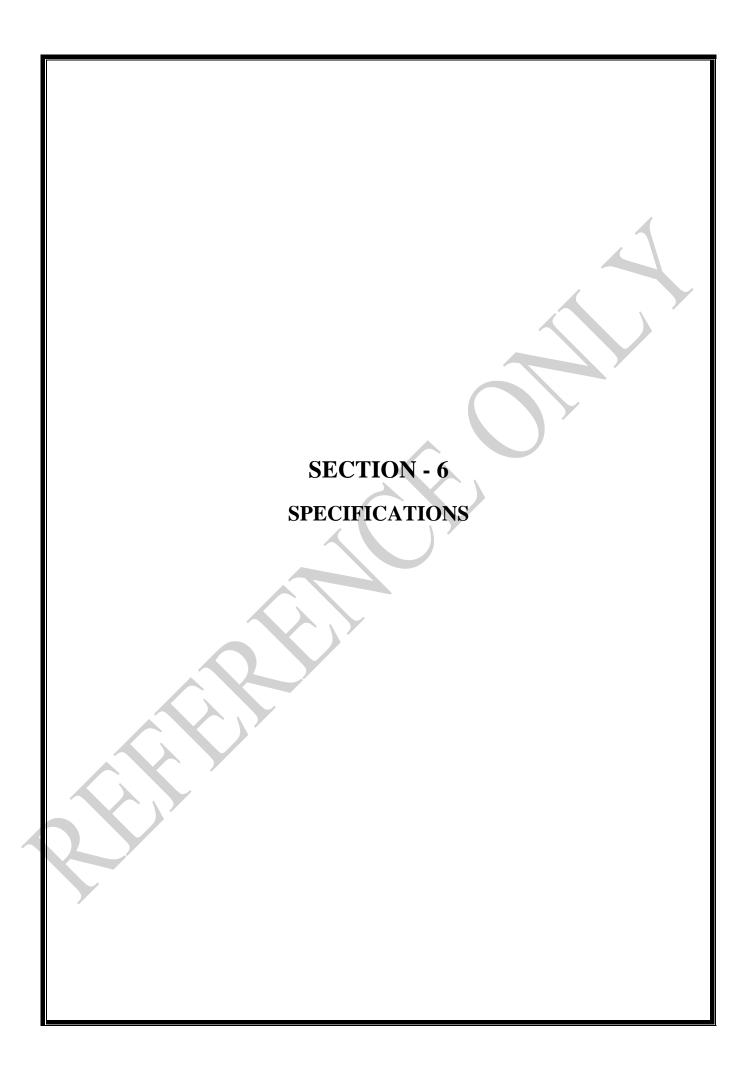
Non-adjustable items shall be Bill no. 01 (Preliminaries & Generals), Bill no. 05 (Day Works), and all PS & LS items.

14.2 Advance Payment

A total Advance Payment of **20%** of the Initial Contract Price net of Contingencies and Provisional Sums would be made in two equal instalments on submission of an advance payment guarantee. The second instalment would be paid only after establishing that the first instalment of the advance payment has been used exclusively for mobilization of this project and submission and approval of detailed construction programme with network analysis and resource scheduling. The advance payment guarantee shall only be from a Bank registered in the Central Bank of Sri Lanka or CGF. **First part of the advance payment would only be paid after signing of a formal contract agreement.**

14.3(c)	Percentage of retention Limit of Retention Money	10% 5% of the Initial Contract Price
14.5	Minimum amount of Interim Payment Certificates	Rs 17.0 Mn.

15.2(h)	Add following Termination by Employer If the delay is more than the period, for which the Maximum Delay Damage is allowed applied, the Employer may consider this situation as Contractor's fundamental breach Contract, and the Employer may consider Termination of the Contract. The De determined by updating the approved program with actual progress, after saving the approgram as a Baseline.	
18.2	Third Party Insurance	This amount of third party insurance per occurrence is Rupees 5,000,000. 00



SPECIFICATION

Standard Specifications

The Standard Specifications comprise 'Standard Specifications for Construction and Maintenance of Roads and Bridges' issued under the authority of the Director General of the Road Development Authority and published by the Institute of Construction Training and Development.

The ICTAD Publication No. of this publication is SCA/5 Second Edition –June 2009

Bidders who are not in possession of this publication can purchase it from the CIDA.

PARTICULAR SPECIFICATIONS

PREAMBLE

These Particular Specifications should be read in conjunction with the Standard Specifications for Construction and Maintenance of Roads and Bridges, ICTAD Publication No SCA/5Second Edition –June 2009, which are applicable in all cases not covered herein.

The Particular Specifications for some sections of the works are comprehensive and cover the full extent of the works in these sections. In other sections they apply in conjunction with the Standard Specifications. Finally in some sections not covered in the Particular Specifications, the Standard Specifications shall apply in full.

Where there is an ambiguity or discrepancy between the Particular Specifications and the Standard Specifications, the Particular Specifications shall prevail.

PRELIMINARIES & GENERAL

P(001) Mobilization & Demobilization

The Contractor shall submit to the Engineer within 14 days from the date of Letter of Acceptance his mobilization and demobilization plan for equipment, plant and machinery required for the Project. Plan shall include the location of plant, machinery and equipment and mode of transport. Engineer shall approve the mobilization and demobilization plan and payment shall be based on schedule of mobilization.

Payment

Payment shall be made according to the schedule submitted by bidder and within the lump sum amount agreed in the Bill of Quantities.

Item No	Description	Pay Unit
P (001)	Allow for mobilization & demobilization	L.S.

P(002) Provide Office for the Engineer

The Contractor shall provide furnished buildings area of 75 sqm for the use of the Engineer according to the Contract. The buildings shall be to the satisfaction of the Engineer.

The Contractor shall submit for the Engineer's approval for general layout plan of the facilities, showing their position, the access and internal roads, fences and gates and proposed waste water/sewerage disposal system before any of this work starts.

The Contractor shall be responsible for earthworks and site grading required for the site facilities and parking areas including boundary fence, gate and watchman's hut. In addition, any access to the site facilities by means of roads from a public road shall be provided and maintained by the Contractor.

The site shall be graded and properly drained so that there are no depressions where water will collect.

All wastewater shall be disposed underground and as approved by the Engineer. The Contractor shall perform percolation tests at the location of leach field, and the size of the leach field or pit will be subject to the results of these tests and the approval of the Engineer.

The septic tanks of size approved by the Engineer shall be of reinforced concrete or glass fiber equipped with proper inlet and outlet baffles and sealed access batch. The size shall be sufficient to operate at least three years without solids overflowing into the leach field. The leach field or pits shall penetrate through the catch layer if there is one. The space below the distribution pipes shall be backfilled with a pervious material and compacted prior to installing the distribution pipes.

The design of the leach field or pits shall take into consideration only the area of the side walls of the trench or pit below the level of the inlet pipes. The area of the bottom of the trench or pit may not be used for percolation calculations as it will be continuously saturated. The Contractor shall submit full details of the proposed system for the approval of the Engineer.

No permanent work shall be allowed to start on Site until the offices for the Engineer are completed and equipped as specified and fully operational.

Upon completion of the Contract, Engineer's offices shall be become property of the Contractor. The Contractor is requested to submit with his bid, Literature & Specifications of the facilities in sufficient details to enable their quality to be assessed.

Canopies shall be provided using an approved type of Construction to shade the roofs and external walls and windows of the facilities during the day.

Covered carports shall be provided at the office areas to accommodate 2 cars/cabs in each area.

Payment

Payment shall be made at the unit price as contained in the BOQ

Item No.	Description	Pay Unit
P(002)	Provide office for the Engineer during the	month
	Construction period.	

P(003) Maintenance of Office for the Engineer

Description

The Contractor shall maintain in good decorative and working order all the buildings and the contents thereof supplied under the Contract. The Contractor shall be responsible for supplying all power, water and telephone services and all the facilities and shall meet all costs for these services and settlement of all bills for these services.

The Contractor shall maintain all facilities for the duration of the Contract, such maintenance shall include but not be limited to:-

keeping buildings in good repair and decorative order, and free from pests, insects etc; cleaning offices and laboratory daily; maintaining the grounds around buildings; supplying kitchen-ware and crockery and cleaning materials; supplying toilet and cleaning equipment and materials; providing power, water, telephone services, fax and e-mail facilities; servicing and repairing all fittings and equipment installed, eg: air-conditioners, fans, etc;

Measurement and Payment

a. Measurement

Maintenance of each facility shall be measured as the number of months during which the maintenance for each facility is satisfactorily provided. Maintenance shall not be measured during any period occurring between the expiration of the contract period and the date the works are certified as complete.

Measurement will be made for maintenance performed after the completion of the works, during the time the facilities are required by the Engineer's staff for post-construction contract completion activities.

b. Payment

Payment for maintenance for each facility shall include all labour, materials and equipment required for satisfactory maintenance of the facilities and shall include all other costs including but not limited to supply of electricity, water and telephone facilities, cleaning, guarding, disposal of rubbish, repairing equipment and all other work required to ensure the facilities and equipment provided are in good operational order.

Pay Item Do	Pay Unit	
P (003)	Maintain Office for the Engineer	Month

P(004) Provide Furniture & Equipment for the Engineer's Office

The Contractor shall provide & maintain the office equipment and furniture for use of Engineer. At the completion of Contract all furniture and office equipment shall become the property of the RDA

Payment

Payment shall be made from the pay item in the Bill of Quantities

Item No Description Pay Unit P (004) Provide office furniture & Equipment for the Engineer's office PS

P (005) Provide Stationary for the Engineer's Office

The Contractor shall provide stationary for the engineer as required and duly requisition by the engineer. Stationary includes office consumable items such as paper, paper printing material and general office requisites. Payment for the stationary shall be the actual net price of stationary provided and equipment provided. Payment for invoiced cost with 10% administrative charge shall be the full payment for stationary provided and shall be made from the provisional sum item in the bill of quantities.

Item No. Description Pay Unit P (005) Provide stationary for the Engineer's Office PS

1.01 LAND AVAILABLE

The land available to the Contractor free of charge shall be the land occupied by the permanent works or the existing road right of way, whichever is greater in width.

1.02 DAMAGE TO LAND AND CROPS

Where land is made available to the Contractor free of charge, the Contractor shall under no circumstances interfere with this land whether for Permanent or Temporary works until the evaluation of all compensation has taken place and permission to proceed has been received from the Engineer. Care shall be taken during the Works to ensure that no unnecessary damage is caused to the land or crops and that all reasonable precautions are taken to prevent soil erosion and mosquito breeding. On completion of the work, the land shall be left in a tidy condition as directed by the Engineer.

1.03 GRAVES, TOMBS, RELIGIOUS OR TRADITIONAL MONUMENTS

Areas which contain graves, tombs and religious or traditional monuments within the Site shall be cleared by the Contractor in accordance with the written instructions of the Engineer.

1.04 CONTRACTOR'S HOUSING, STORES AND WORKSHOP AREAS

The location and layout of housing, stores and workshop areas together with their use and detailed dimensions shall be approved by the Engineer. The Contractor shall not erect any structures on the Site without the approval of the Engineer.

On the commencement of the Contract the Contractor shall fence off all areas designated for housing, plant-yard, workshops, offices and the like. By the end of the Period of Defects Notification Period or at such earlier time as the Engineer may instruct or approve, the Contractor shall clear all structures, plant and rubble from these areas and leave them in a condition acceptable to the Engineer.

1.05 FIRST AID FACILITIES

The first aid, welfare and safety standards to be provided and observed shall be at least equal to those laid down by the Ministry of Health/Labour for Industrial sites of similar size and remoteness and approved by the Engineer.

The Contractor shall, within 24 hours of the occurrence of any accident at or about the Site or in connection with the execution of the Works, report such accident to the Engineer and to the Competent Authority where required by Law. At least one person permanently on the Site shall have been trained in first aid and the person so designated shall have been made known to the Engineer in writing and to all employees by the posting of his name and designation in a prominent position on the Site.

1.06 SECURITY SERVICES FOR ENGINEER

The Contractor shall be responsible for all matters of security concerning the vehicles and housing, offices for the Engineer. The costs in connection with this clause shall be deemed to be included in the Contractor's tendered rates.

1.07 WATER SUPPLY

The Contractor shall make his own arrangements and at his own costs for the provision from approved sources of adequate clear water for use in construction of the Works or otherwise. Quantities of water withdrawn from the approved sources shall be such that the requirements of the local population in respect of water for irrigation, drinking purposes, etc., are not interfered with. The Contractor shall have obtained permission from the appropriate Authorities in each case for the abstraction of water from any natural source, before the Engineer approves the use of such source.

1.08 **SERVICES**

The Contractor shall make his own arrangements for the supply of electricity for power and light and of any other services required in order to carry out the Works and he shall make his own arrangements, subject to the approval of the Engineer, for the disposal of sewage and all waste materials during the execution of the Works. All such services shall be at the Contractor's own expense.

1.09 PROTECTION OF MAINS AND SERVICES

The Contractor shall protect and support at his own costs during the construction of the Works, all pipes, mains, cables, overhead lines and other apparatus, which might be endangered by his operations.

In the event of any pipes, mains or cables being exposed at any time, the Contractor shall immediately notify the Authority or proprietor concerned and shall not cover the exposed pipe, main or cable until it has been examined and approved by the appropriate Authority or proprietor.

Before commencing any section of the Works the Contractor shall at his own expense obtain full information with regard to the position and depth of all pipes, mains and cables.

The Contractor is responsible for making arrangements with the Public Authorities and other duly constituted bodies for the phasing into his programme of works, of all the work which needs to be done by them or their contractors concurrently with the Works. If in the execution of the Works, any damage to any service or apparatus or any interruption of or delay to the provision of any service is caused, the Contractor shall bear and pay the cost reasonably incurred by the Authority or body concerned in making good such damage and shall make full compensation to the Authority or other body for any loss sustained by reason of such interruption or delay.

In the case of damage caused to water mains, pipes or fittings less than 2 inches in diameter the Contractor shall repair the damage himself at his own expense without delay. The Contractor shall be responsible for any damage caused to the permanent works or to adjacent property by water flooding due to damage caused by him to water mains, pipes or fittings.

1.10 QUARRIES AND BORROW PITS

The Contractor shall be responsible for opening up any quarry or borrow pit and shall organize his methods of operation so that only material of a type and quality approved by the Engineer shall be selected for use in the Works. The Contractor shall provide, erect, operate and maintain all plant necessary for their proper operation, together with any access roads, temporary bridges or the like necessary for the supply to the Works of the aforementioned and pay all charges incurred, including the rights for entering the land and extracting the material, or for any other compensation.

No claim shall be allowed for delays or for any other reason in this respect.

1.11 **OTHER WORKS**

During the course of the Contract the Employer may cause other works such as the installation or removal or resetting of services to be carried out, on through or adjacent to the Site.

The Contractor shall at all times comply with the requirements of the relevant Clauses of the Conditions of Contract in respect of these and any other Works not included in the Contract and shall allow reasonable access as approved by the Engineer on and through the Site of the Works to any other contractor or workmen who may be working on or near the Site for this reason at no extra cost.

1.12 **POSSESSION OF THE SITE**

Possession of the site will be in accordance with the General Conditions of Contract. Possession will be granted in accordance with the Contractor's Programme referred to in the Conditions of Contract and the Specifications and approved by the Engineer.

1.13 **BOREHOLE INFORMATION**

Information regarding the position and depth of boreholes and the results obtained are shown on the drawings and Contractor shall be deemed to have considered this information and checked its accuracy during the Tender Period, and to have satisfied himself of the characteristics of the materials and the suitability of the plant and the methods of working on which he has based his rates.

1.14 WEATHER CONDITIONS

The Contractor shall not be entitled to extra payment by reason of the occurrence or effect of high winds, excessive rainfall, temperature, humidity or any other meteorological phenomena.

1.15 **PROGRAMME**

In addition to the requirements of the Conditions of Contract the Contractor shall furnish to the Engineer within one calendar month from the commencement date a detailed programme of the order in which he proposes to carry out the Works. The programme shall include time and progress charts so that actual progress on each operation can be shown against anticipated progress. Due allowance should be made for the seasonal rains and also in accordance with the relevant clauses in this specifications.

The Contractor shall keep the progress of the Works under continuous review. When necessary the programme shall be updated at regular intervals as required by the Engineer.

1.16 CONTRACT DOCUMENTS AND DRAWINGS

The Contractor shall be issued Contract Documents and Drawings. When necessary the Contractor shall also be supplied with two copies of any further drawings, which may be issued in accordance with the Contract.

1.17 PRESERVATION OF SURVEY MARKERS

The Contractor shall locate and where possible preserve or else relocate all survey markers established for the execution of the Works. Where such survey markers will be disturbed, the Contractor shall accurately reference these to permanent concrete markers before such work is commenced.

Where it is likely that any survey marker which is the property of the Survey Department will be disturbed, the Contractor shall inform the appropriate Survey Authorities at least 14 days before the marker is endangered and ensure that the Survey Authorities take appropriate action.

1.18 **DIMENSIONS AND LEVELS**

The Contractor on the Site shall verify all Dimensions and levels shown on the Drawings or mentioned in documents forming part of or issued under the Contract and he shall immediately inform the Engineer of any apparent errors or discrepancies in such dimensions or levels.

1.19 **NIGHT WORKING**

The Contractor may be permitted to carry out work during the night and shall submit full details of the methods of working and lighting, control of traffic and any other information, which the Engineer may request. No night working shall be carried out without the Engineer's approval, and the Engineer has the right to withhold or withdraw approval if, in his opinion, such work presents undue hazard or disturbance to the public, or is in any other way unsatisfactory.

The Contractor's intentions on night working shall be made known to the Employer on the programme of Works supplied with his tender.

1.20 **AMENITY AND ACCESS**

The Contractor shall ensure that, in carrying out the Works, he causes no damage by plant, workmen, flooding, subsidence or otherwise to any property. He shall take all precautions to the satisfaction of the Engineer to ensure that such hazards are avoided and public amenity maintained, and he shall be responsible for any damage that may occur.

The Contractor shall be responsible for providing and maintaining access to and along the Site for his own purposes, including any temporary river or swamp crossings he may require.

1.21 WORKS DURING DEFECTS NOTIFICATION PERIOD

After the Commencement of the Defects Notification Period, which shall normally, the Contractor shall do nothing which might endanger the safety of the public and he shall complete any outstanding works and undertake the correction of all defects as instructed by the Engineer or any other duly authorized person or

Authority. Throughout the Defects Notification Period the Contractor shall notify the Engineer of the work or operations he intends to carry out and he shall obey any instructions which the Engineer may give as to the times and manner of working so that any inconvenience to the public is kept to a minimum.

1.22 CLEARING AND TRIMMING OF SITE ON COMPLETION

On completion of the Works the Contractor shall leave the Site in a tidy condition to the satisfaction of the Engineer. Particular attention shall be paid to the final levelling, grading, making good of erosion gulleys and routings, landscaping and drainage of the Site, the borrow areas and any other places adjacent to the Site interfered with by the Contractor during the Construction or the Defects Notification Period.

1.23 SPILLAGES

The Contractor shall be responsible throughout the Contract and Defects Notification Period for any spillage of fuels, bitumen, hydraulics, oils, and other lubricants or materials caused by his activities on the Works and any such spillage shall be removed and any damage repaired to the satisfaction of the Engineer at the Contractor's expense.

1.24 APPROVAL OF SUPPLIERS OF MATERIALS AND GOODS

Before entering into any agreement for the supply of any materials or goods, the Contractor shall obtain the Engineer's approval in writing of the supplier from whom he proposes to obtain such materials or goods. Should the Engineer at any time be dissatisfied with such materials or goods or with the method or operations carried out by such sub-contractor's work or place of business, the Engineer shall be empowered to cancel his previously given approval of such sub-contractor/supplier. The Contractor shall then obtain such said materials or goods from other supplier as may be approved by the Engineer and shall bear any additional cost thereof.

1.25 COPIES OF ORDERS

The Contractor and sub-contractors shall provide the Engineer with copies of all orders, which they may place for the supply of materials or goods required in connection with the Works.

1.26 **SAMPLES**

In addition to any special provisions herein for the sampling and testing of materials, the Contractor shall submit to the Engineer as he may require, samples of all materials and goods, which he proposes to use or employ in or for the Works. Such samples, if approved, will be retained by the Engineer, and no materials or goods of which samples have been submitted shall be used on the Permanent Works unless and until such samples have been approved in writing by the Engineer. Notwithstanding the Engineer's approval as provided for herein the Contractor shall be solely responsible for the quality of all materials and goods supplied.

The cost of supplying all such samples and of conveying the same to such place of inspection or testing as the Engineer may designate within the country of origin and of complying with the requirements of this clause shall be deemed to be included in the rates and prices in the Contract.

1.27 TEST CERTIFICATES

Should the Engineer so require, the Contractor shall obtain Certificates of Tests from the suppliers of any Goods and shall send such Certificates to the Engineer. Such Certificates shall certify that the Goods concerned have been tested in accordance with the requirements of the Specification and shall give the results of all the tests carried out. The Contractor shall provide adequate means of identifying the Goods delivered to the Site with the corresponding Certificates.

The test certificates shall not release the Contractor of any of his obligations under the Contract in connection with the specifications of the relevant Goods when incorporated to the Permanent Works, nor of the necessity for further testing as required in the Specifications or directed by the Engineer.

1.28 WORKS TO BE IN THE DRY

Unless otherwise specified all the works are to be carried out in the dry and they shall be kept free from water coming from whatsoever source to the satisfaction of the Engineer.

1.29 PAYMENT FOR COMPLYING WITH ITEMS 1.01 TO 1.28

There will be no separate payment for complying with the Items 1.01 to 1.28 of this section, and the cost of complying with all the requirements stated herein shall be deemed to be included in the Contractor's rates in the remainder Bills of the Bills of Quantities.

1.20 AS BUILT DRAWINGS

120.1 Description

The work shall consists of preparation of As Built Drawings necessary for performance of the completion of the work covered by the Contract, the Contractor shall supply them by the dates stated in the Contract Data.

The Contractor shall retain, at his sole expense, a qualified engineer for appropriate on site construction inspections to ensure that all improvements as set forth required, pursuant to RDA standards and specification, and as-built shall be provided. The contractor shall certify, in writing, to the Engineer that the improvements were done in compliance with the approved plan or agreement pursuant to RDA Standards & Specifications and as-built shall be provided.

Field managed record drawings should be provided to the Engineer with indicating additions and deletions for approval before preparation of the final as-built Drawings.

The following requirements shall be applied to each as-built drawing developed for the project and a hard copy together with an electronic CAD drawing file in digital format on CD shall submit for the Engineer.

120.2 Construction Requirement

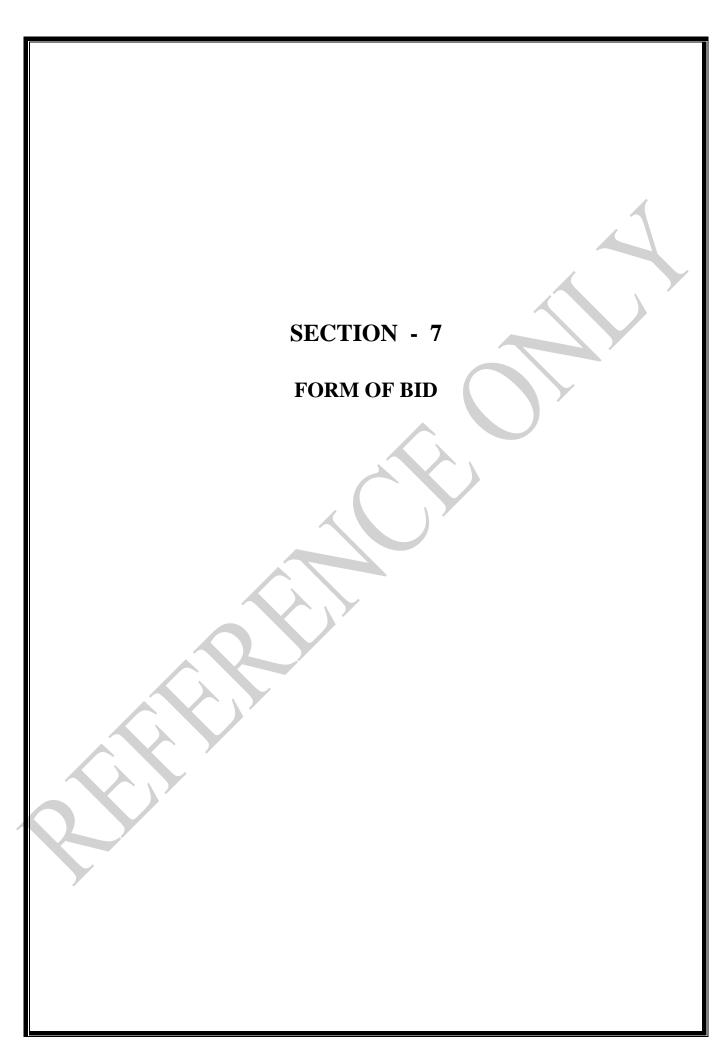
The following items shall be required for all "As-Built Drawings.

- (a) All as-built for projects are required to be on A1 or similar size of construction drawings and shall bear the name and address, of the person who preparing the drawings and the date the as-built data is added to the original via the revision block. Electronic Auto CAD drawing files, based on the GPS coordinate, are also required (if the construction drawings are prepared based on GPS coordinates). Surveyor's/Engineer's statement (with embossed or wet seal and with an original signature on each sheet) shall verify that as-built drawings reflect the true conditions in the field.
- (b) Contractor's statement (with an original signature on each sheet) shall verify that all construction specifications and product qualities have been met or exceeded.
- (c) "AS BUILT DRAWINGS" of "RECORD DRAWING" shall be clearly labelled on each sheet.
- (d) If the details of under-ground service lines (Water, Sewerage, ducts &etc) are available needs to be included to the as-built drawings on the approval of Engineer

- (e) The location and elevation of the benchmark referenced will be shown on the drawing. If the reference benchmark is within the project, then a complete description of its location will be provided to assist in future locating.
- (f) Survey data, relative to the GPS coordinate grid, on right-of-way monuments installed or encountered within the project
- (g) Note any changes to the alignment either vertically or horizontally of curb & gutter sidewalk, pavers or any other surface improvement.

120.3 Measurement & Payments

No payment shall pay for the preparation of As built drawings. If the Contractor does not supply the As Built Drawings by the dates stated in the contract data, or they do not receive the Engineer's approval, the Engineer shall withhold the release of Final payment of the Contract.



FORM OF BID

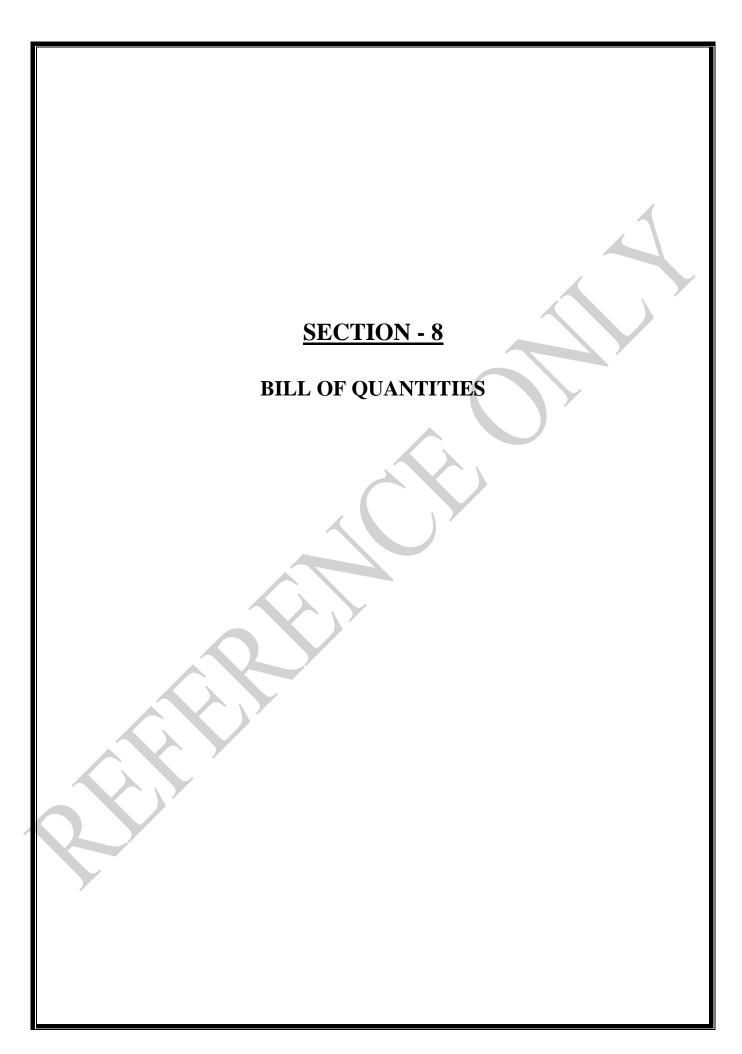
'CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km 'Under Contract No: RDA/DC/UVA/FD/GOSL/2023/02

To:	Director General, Road Development Authority.
Gentlemen:	4
1.	Having examined the Standard Bidding Document – Procurement of Works – Major Contracts [ICTAD/SBD/02 – Second Edition, January 2007 with addendum issued in October 2009 by ICTAD], Specifications, Drawings, Bills of Quantities and Addenda for the execution of the above – named Works, we, the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Specifications, Drawings, Bills of Quantities and Addenda for the sum of Sri Lankan rupees *
2.	We acknowledge that the Contract Data forms part of our Bid.
3.	We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract data.
4.	We agree to abide by this Bid until the date specified in ITB Clause 16 and it shall remain bidding upon us and may be accepted at any time before that date.
5.	Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.#
6.	We understand that you are not bound to accept the lowest or any bid you may receive.
7.	We certify / confirm that we comply with the eligibility requirements as per ITB Clause 3 of the bidding documents.
Dated this	day of
Signature .	
Address	
Witness	: 1 Name Signature
	2 Name Signature

* The amount inserted here should not include the VAT component

if this bid is a joint venture bid we undertake the responsibility to enter into a joint venture agreement among the joint venture partners. We are also well aware that in the event we fail to enter into a joint venture agreement the contract formed between us is null and void and our bid bond will be forfeited by you.

[#] For the joint venture bid, add following to item 5.0:



BILL OF QUANTITIES PREAMBLE

- 1. The Bill of Quantities shall be read in conjunction with all other sections of the bidding documents.
- 2. General directions and descriptions of work or materials given elsewhere in the bidding Documents are not necessarily repeated in the Bills of Quantities. For the full meaning of each Item, reference should be made to the applicable passages in the bidding documents.
- 3. The prices and rates entered by the contractor in the Bill of Quantities shall be deemed to cover the complete and finished works in the final position as required in the bidding documents, including, inter alia, all costs and expenses which may be required in and for the construction and maintenance of the works, together with all risks, liabilities, contingencies, insurance, sampling, testing, providing all necessary assistance to the Engineer and in general all obligations imposed or implied by the contract.
- 4. Without affecting the generality of the foregoing provisions the prices and rates entered by the contractor in the Bills of Quantities shall also include, inter alia, all costs and expenses involved with or arising from the following:
 - i. The provision, storage, transport, handling, use, distribution and maintenance of all materials, plant, equipment, machinery and tools, including all costs, charges, dues demurrage or other outlays involved in carriage and importation.
 - ii. The provision and maintenance of all staff and labour and their payment, accommodation, transport, fares and other requirements.
 - iii. Setting out, including the location, construction and preservation of survey markers, measurement and supervision.
 - iv. The provision, storage, transport, use, handling, distribution and maintenance of all consumable stores fuel, water and electricity including the requirements of the Engineer's Representative and his staff.
 - v. The location, test proving, opening, operation, reinstatement of al quarries and borrow pits, as well as compensation and mining royalties costs associated with quarries and borrow pits or any other land the contractor may require additional to that provided free for the execution of the permanent works.
 - vi. Sampling, the transport of samples, testing, the carrying out of trial sections of earthworks, or payment and the checking of all information given by the Engineer.
 - vii. Injury caused to the Works under Construction, Plant, Materials and consumable stores by weather.
 - viii. Repairs to the Works either prior to or during the Period of maintenance.
 - ix. Maintenance work as detailed in the Specifications and the Conditions of Contract and the maintenance of public amenities.
 - x. Co-ordination with other Contractors or Authorities carrying out work either in connection with or adjacent to the Works.
 - xi. The supply of manufactures test certificates
 - xii. The protection of mains and services, and cost of repairs in case of damage caused by the Contractor.
 - xiii. Pumping and de-watering; the protection of excavation faces.

- xiv. The provision and maintenance of temporary divisions in order that through traffic flow shall remain unobstructed through the contract period and in general the provision of all temporary works required in connection with the works.
- xv. Insurance, custom duties, taxes (without VAT), levies, first aid, welfare and safety requirements and all other overheads and costs, protection of existing bridge in case of stage construction and profit.
- 5. A price or rate shall be entered against each Item in the Bills of Quantities whether quantities are stated or not. Item against which no price or rate is entered shall be deemed to be covered by the other prices or rates entered by the Contractor in the Bills of Quantities. The unit price or rate entered against any Item shall take precedence over any miscalculation in the total sum against that Item. Where separate items have not been provided in the Bills of Quantities for work shall be deemed to have been included in the other prices and rates.
- 6. The Quantities given in the Bills of quantities are estimated only and are given to provide a basis for the tender. No guarantee is given for their accuracy and payments to Contractor will be based on the prices and rates quoted in the bills applied to measured quantities for work done.
- 7. The items in the Bills of Quantities are the general application to the whole of the works at any location on site or any part of the works as indicated in the bid documents or instructed by the Engineer's representative.
- 8. Tenders which group several items together in the Bill of Quantities under one price will not be accepted.
- 9. Item mentioned "Provisional" in the Bill of Quantities are not to be executed unless ordered by the Engineer. They may be expended wholly or in part or not at all as directed by the Engineer.
- 10. The Units of measurement described in the Bills of Quantities are Metric Units. Abbreviations in the Bill of Quantities are as follows:

cu.deci.m Cubic Decimeter hrs Hours km Kilometre km-mth KilometreMonths Linear Metre mnth Month m m² or sqm Square Metre ltr Litre m³ or cum Cubic Metre Kilograms kg Numbers MT Metric Tonne Nos. L.S. Lump Sum Veh-wk Vehicle Week

DAY WORKS

- 1. The rates entered in the Schedule for Bill of Quantities shall form day works items for pricing extra work ordered to be done in accordance with the Contract.
- 2. The rates shall include all overheads and profit and all other costs of whatever nature necessary for and incidental to the performance of extra work whenever ordered and these rates required anywhere on the Site for the operation of plant the provision of labour or the provision of materials and shall be deemed to include inter alia:

Plant Operation, maintenance, repairs, fuel, oils grease, hydraulic fluids, taxes, duties

operator's wages and overtime, travelling time, transport supervision,

administration costs related to the use of such plant.

Labour Wages, overtime, bonuses, travelling time, hand tools, accommodation, fringe

benefits, transport and supervision.

Materials Provision, transport, handling, wastage and storage.

In the case of Plant and labour, only time spent working shall be paid for.

For Day works required outside the <u>Site area</u> (which for these purposes shall mean all areas shown on the plans for permanent works and all areas of temporary works such as Contractor's and Engineer's camps, quarry, borrow pits and their access roads, diversion roads etc.), the following should be chargeable:

Plant : Actual travel time from original work site to the place of day of work (without

labour charge).

Transport : Travelling time of the places of transport (lorry, low loader etc.)

Labour : Travel time for the means of transport used.

Materials : Travelling time for the means of transport used.

The rates shall apply only to such work, as the Engineer shall instruct in writing to be carried out as day works. All items should be priced.

Summary of Bill of Quantity

'CONSTRUCTION OF RAJAMAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH 7+960 km AND CH 8+380 km '

CONTRACT NO: RDA/DC/UVA/FD/GOSL/2023/02

Bill No	Description	l		Amounts / Rs	
1	Preliminari				
2		Construction of Bridge at CH 7+960KM accross Bogahakubura Ela			
3	Construction Uma Oya a				
4		ha Extension from Ketawala to Road (From 7+560KM To 9+30	00)		
5	Day works				
A	Sub Total-	01		Y	
В	Provisiona	l sums		1,920,000.00	
С	Sub Total Provisional S	-02 (A-B) sum deduct form Sub Total -01			
D	Discount	Amount in words	Amount		
	if any		in figures		
\boldsymbol{E}	Sub Total	03 (C-D)			
F		04 (E+B) (E+ Provisional Sum nal sums to sub total 03	ns)		
G	Allow for F				
Н	Allow for F				
I	Bid Price (F+G+H) [Form of Bid price]				
J	VAT (15%*I)				
K	Bid Price	with VAT (I+J)			

Amount in words:	 	
Name of Authorized Officer:	 	
_		
Signature:		

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km), INCLUDING TWO BRIDGES AT CH 07+960km AND CH 08+380km

Bill No	.1 Prelimi	inaries & General				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Mobilization and De-Mobilization of Contractor				
1.1		Allow for Mobilization & Demobilization	Item	L.S.	Allow	
		Contract Insurance and Securities				
1.2	119(1)	Allow for the cost of providing Insurances.	Item	L.S.	Allow	
1.3	119(2)	Allow for the cost of providing Securities and Bonds.	Item	L.S.	Allow	
		Traffic Safety & Control				
1.4	103(1)	Allow for safety measures and traffic control	18.00	Month		
		Project sign Boards)		
1.5	118 (1)	Making & erecting project name board 1.8 m x 2.0 m as directed by the Engineer	2.00	Nos		
1.6		Facilities for the Engineer and Staff	/			
1.6.1		Office for the Engineer and Staff	18.00	Month		
1.6.2		Maintenance of office	18.00	Month		
1.6.3		Provide furniture for the office	Item	PS	Allow	300,000.00
1.6.4		Provide Stationary for the Office	Item	PS	Allow	120,000.00
1.7		Allow for Environmental Permission as directed by Engineer	Item	PS	Allow	500,000.00
		Dill No. 1 Comind to				
		Bill No. 1 Carried to summary				

CONSTRUCTION OF BRIDGE AT 7+960KM ACROSS BOGAHAKUBURA ELA ON RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA

Bill No:2.	1 Site Clea	ring & Demolishing.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
2.1.1	201(1)	Clearing and Grubbing inclusive of backfilling holes and trenches caused by removal of stumps.	200.00	Sq.m.		1
2.1.2	201(2)	Removal of trees, girth greater than or equal to 300 mm and less than 600 mm	3.00	No.		
2.1.3	201(3)	Removal of trees, girth greater than or equal to 600 mm and less than 1200 mm	2.00	No.		
2.1.4	201(4)	Removal of trees, girth greater than or equal to 1200 mm and less than 2000 mm	1.00	No.		
2.1.5	201(5)	Removal of trees, girth greater than 2000 mm.	1.00	No.		
2.1.6	201(10)	Removal of overhanging branches of girth exceeding 300 mm	15.00	No.		
2.1.7	202(1)	Dismantling the Existing brick masonry structures & culvert pipes	18.00	Cu.m		
2.1.8	202(2)	Dismantling and removal of concrete structures.	24.00	Cu.m		
		Bill No. 2.1 Carried to summary				
Bill No:2.	2 Earth W	<u>ork</u>				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Road way Excavation and Preperation Subgrade in Cut Areas	n of			
2.2.1	301 (11)	Road Way Excavation in unclassified soil.	150.00	Cu.m.		
2.2.2	304 (3)	Trimming ,leveling and compaction of original ground to 100% standard density.	200.00	Sq.m.		
2.2.3	304 (2b)	Embankment construction & back filling Abutment & wing wall using Type 1 material	250.00	Cu.m.		
2.2.4	304 (2a)	Embankment construction & back filling Abutment & Wing wall using Type 11 material	250.00	Cu.m.		
2.2.5	409(1)	Shoulder Construction using shoulder material and compacted in position.	20.00	Cu.m.		
		Bill No. 2.2 Carried to summary				

Bill No:2.	3 Soil Sub	Base, Base & Surfacing.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Sub Base				
2.3.1	401 (1)	Soil sub base compacted in position using approved soil (Type 1).	44.00	Cu.m.		4
		Dense Graded Aggregate Base				
2.3.2	405 (1)	Dense Grade Aggregate Base using aggregate 37.5mm	38.50	Cu.m.		-
		Prime Coat				
2.3.3	501 (5)	Prime coat with emulsion CSS-1 using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m./cu.m of sand	222.00	Sq.m.		
		Tack Coat				
2.3.4	502 (2)	Applying tack coat to the surface using emulsion CSS1 at a rate of 0.5 Lt/Sq.m.	537.00	Sq.m.		
		Asphalt Concrete Surfacing				
2.3.5	506(2)	Asphalt Concrete Surfacing Wearing course 50mm	48.00	МТ		
		DULY A 2 Combal Assessment				
		Bill No. 2.3 Carried to summary				

Bill No:2.	4 Construc	ction of Bridge.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		2.4. CONSTRUCTION OF BRIDGE				
		2.4.1. FOUNDATION & SUB STRU	JCTURE			
		Abutment , Wing walls and Pier				
		Excavation & Back filling				4
2.4.1.1	302 (5)	Excavation in unsuitable soil and backfilling for Pier, Abutment & Wing walls.	362.00	Cu.m.		4
2.4.1.2	302 (2)	Excavation in weathered/soft/decomposed rock	50.00	Cu.m.		
2.4.1.3	302 (4)	Rock requiring blasting	20.00	Cu.m.		
2.4.1.4	302 (11)	Dewatering	Item	LS		
2.4.1.5	302 (10)	Construction of necessary coffer dams, cribs sheeting shoring and bracing and their subsequent removal	Item	LS) >	
		Concrete for structure:				
2.4.1.6	1001 (3)	Concrete Class C Grade 15 (40 mm) as Screed in Pier, Abutment and Wing Wall foundations.	44.00	Cu.m.		
2.4.1.7	1001(1b)	Concrete Class A Grade 25 (20 mm) as Pocket filling in Pier, Abutment and Wing Wall foundations.	40.00	Cu.m.		
2.4.1.8	1001(1b)	Concrete Class A Grade 30(20 mm) for Foundation Concrete in Abutment & Wing walls	84.00	Cu.m.		
2.4.1.9	1001 (3)	Concrete Class C Grade 15 (40 mm) as Mass Concrete in Abutment & Wing walls	296.00	Cu.m.		
2.4.1.10	1001(1b)	Concrete Class A Grade 30 (20mm) in Capping Beams, Ballest walls, Cutain walls and Pier foundation & Pier.	107.00	Cu.m.		
X						

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Form work				
2.4.1.11	1008(2)	Rough finish form work for foundation of Pier, Abutments & Wing Walls	76.00	Sq.m.		
2.4.1.12	1008(1)	Smooth finish form work for pier, Abutments, Wing Walls, Capping Beams, ballest walls, Curtain walls and bearing pads.	717.00	Sq.m.		
		Reinforcement				
2.4.1.13	1002(1a)	Fabricating & laying Tor steel reinforcement for Pier, Abutment Wing walls, Capping Beams, ballest walls, Curtain walls and bearing pads.	8.215	MT		
2.4.1.14	1002(1b)	Fabricating & laying Mild steel reinforcement.	0.657	МТ	7	
		Weep Holes				
2.4.1.15	706(1)	Forming weep holes using type 400, PVC pipes of int. dia. not less than 110 mm.	360.00	L.M		
		Drainage & Backfilling				
2.4.1.16	705(1)	Backfill using Aggregate 50-200mm for dry stone lining behind Abutment & Wing wall.	160.00	Cu.m.		
2.4.1.17	705(2)	75mm thick, Filter medium using 37.5 mm aggregate behind Abutment & Wing wall.	17.00	Cu.m.		
2.4.1.18	705 (3)	600x300mm Clay puddled laid behind Abutment and Wing walls	7.00	Sq.m.		
		λ				

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		2.4.2 SUPER STRUCTURE				
		Concrete for structures				
2.4.2.1	1001(1b)	Class A Concrete of Grade 25(20mm) in approach slab.	23.00	Cu.m.		
2.4.2.2	1001(1)	Class A Concrete of Grade 40(20mm) in Bridge Deck	189.00	Cu.m.		4
2.4.2.3	1001(1b)	Class A Concrete of Grade 25(20mm) in Foot Walks	25.00	Cu.m.		4
		<u>Beams</u>				
2.4.2.4	1003(1)	Supplying of 9.5 m long P.S.C. concrete beams	38.00	Nos.		
2.4.2.5	1003(2)	Launching of 9.5 m long P.S.C. concrete beams	38.00	Nos.		
		Form work				
2.4.2.6	1008(1b)	Smooth finish form work for Deck & Foot walks.	158.00	Sq.m.		
2.4.2.7	1008(1b)	Smooth finish form work for Approch Slab.	13.00	Sq.m.		
		Reinforcements				
2.4.2.8	1002(1a)	Fabricating & laying Tor steel reinforcement For Deck, Aproch Slab and Foot walk.	5.000	MT		
2.4.2.9	1002(1b)	Fabricating & laying Mild steel reinforcement	0.400	МТ		
2.4.2.10	1018(1)	Railings Standard precast reinforced concrete railings & uprights in class-A,grade.25(20) concrete. (Type drawing T/B/102/B of RDA)	64.00	L.M		
2.4.2.11	1019(1)	Construction of end pilasters type iv with foundation in class A concrete of grade 25(20) (Type drawing T/B/106 - Rev 1)	4.00	Nos.		
V		Concrete Kerbs				
2.4.2.12	807(1a)	Standard precast bridge kerbs(new). Type drawing T/B/106 of RDA)	64.00	L.m		
2.4.2.13	807(4)	Constructing 150x50 mm thick insitu Lower kerbs in class B grade 20 (14) concrete for bridge.	64.00	L.m		

	Pay Item					
Item No.	No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Expansion joints				
2.4.2.14	1009(1)	M.S. angle iron & hard rubber				
		expansion joints (Type drawing T/B/107-Rev-1 of RDA)	31.50	L.m		
		Bridge bearings				
2.4.2.15	1010(2)	75x12mm. Hard rubber bearing pads supplied & laid over capping beam and for approach slab	42.00	L.m		4
		<u>Miscellaneous</u>				
2.4.2.16	1012 (1)	Supplying & fixing 200 mm long, 20mm dia. Stanless steel dowels in capping beam at fixed end.	42.00	Nos.		
2.4.2.17	1011 (1)	Supplying & fixing 200 mm long, 25mm dia.MS steel dowels in Corbel wall for Approch slab fix end.	35.00	Nos.		
2.4.2.18	1011B(1)	Supplying & fixing M.S. Dowels, spliced and dove tailed with wedge at one end,20mm dia. And 1.0 m long,1.20 m C/C Stagered on foundations	105.00	Nos.		
2.4.2.19	1020(1a)	Supplying & fixing 110mm dia. PVC pipes as rain water outlets through deck as per drawing.	44.00	L.m.		
2.4.2.20	1020(1b)	Supplying & fixing 50mm dia. PVC pipes as rain water outlets through duct as per drawing.	20.00	L.m.		
2.4.2.21	1013 (1)	Bituminous sealing material supplied and laid under beam ends to prevent grout leak to capping beam.	31.50	L.m		
2.4.2.22	1014 (1)	Bituminous sealing material supplied and laid under beam ends to prevent grout leak to approch slab.	62.00	L.m		
2.4.2.23	1403(7)	Painting with enamel Two coat to Hand rails, End pilasters of bridge and guard stones	350.00	Sq.m		
2.4.2.24	1017(1)	100mm Thick Cover Slab (500x450x100mm sized) for Service Duct in Class B grade 25 (20) Concrete inclusive of light reinforcement.	38.40	Sq.m		
2.4.2.25	1016(1)	Forming of service duct in the deck, 340mm depth and 350mm width	64.00	L.m		

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
2.4.2.26	808 (5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete 1:3:6 (20 mm)	12.00	Nos.		
2.4.2.27	802(1)	Turfing on Embankment slope and in other area as necessary	50.00	Sq.m.		
2.4.2.28	804(1)	Grouted rip rap filled with 1:3 cement mortar as per drawing	120.00	Cu.m.		
2.4.2.29		Construction of 2 Nos. reinforced concrete staircase to access underneath of the bridge	Item	PS	Allow	500,000.00
		Bill No. 2.4 Carried to summary				

CONSTRUCTION OF BRIDGE AT CH 08+380 KM ACROSS UMA OYA AT HALABE ON RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA

Bill No:	3.1 Site Cl	earing & Demolishing.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
3.1.1	201(1)	Clearing and Grubbing inclusive of backfilling holes and trenches caused by removal of stumps.	360.00	Sq.m.		
3.1.2	201(2)	Removal of trees, girth greater than or equal to 300 mm and less than 600 mm	3.00	No.		
3.1.3	201(3)	Removal of trees, girth greater than or equal to 600 mm and less than 1200 mm	2.00	No.		
3.1.4	201(4)	Removal of trees, girth greater than or equal to 1200 mm and less than 2000 mm	1.00	No.		
3.1.5	201(5)	Removal of trees, girth greater than 2000 mm.	1.00	No.		
3.1.6	201(10)	Removal of overhanging branches of girth exceeding 300 mm	10.00	No.		
3.1.7	202(1)	Dismantling the Existing brick masonry structures & culvert pipes	18.00	Cu.m		
3.1.8	202(2)	Dismantling and removal of concrete structures.	30.00	Cu.m		
		Bill No. 3.1 Carried to summary				
Bill No:	3.2 Earth V	Vork				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Road way Excavation and Prepe	eration of Su	bgrade i	in Cut Areas	
3.2.1	301 (11)	Road Way Excavation in unclassified soil.	220.00	Cu.m.		
3.2.2	304 (3)	Trimming ,leveling and compaction of original ground to 100% standard density.	360.00	Sq.m.		
3.2.3	304 (2b)	Embankment construction & back filling Abutment & wing wall using Type 1 material	320.00	Cu.m.		
3.2.4	304 (2a)	Embankment construction & back filling Abutment & Wing wall using Type 11 material	320.00	Cu.m.		
3.2.5	409(1)	Shoulder Construction using shoulder material and compacted in position.	20.00	Cu.m.		
		Bill No. 3.2 Carried to summary				

Bill No:3	.3 Soil Sub	Base, Base & Surfacing.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Sub Base				
3.3.1	401 (1)	Soil sub base compacted in position using approved soil (Type 1).	42.00	Cu.m.		. 1
		Dense Graded Aggregate Base				
3.3.2	405 (1)	Dense Grade Aggregate Base using aggregate 37.5mm	35.00	Cu.m.		\
		Prime Coat				
3.3.3	501 (5)	Prime coat with emulsion CSS-1 using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m/cu.m of sand	444.00	Sq.m.		
		Tack Coat				
3.3.4	502 (2)	Applying tack coat to the surface using emulsion CSS1 at a rate of 0.5 Lt/Sq.m.	1,179.00	Sq.m.		
		Asphalt Concrete Surfacing				
3.3.5	506(2)	Asphalt Concrete Surfacing Wearing course 50mm	114.00	МТ		
		Bill No. 3.3 Carried to summary				

Bill No:	3.4 Constri	iction of Bridge.				
Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		3.4 CONSTRUCTION OF BRIDGE 3.4.1 FOUNDATION & SUB STR	_			
		Abutment, Wing walls and Pier				
		Excavation & Back filling				
3.4.1.1	302 (5)	Excavation in unsuitable soil and backfilling for Pier, Abutment & Wing walls.	1,102.00	Cu.m.		
3.4.1.2	302 (4)	Rock requiring blasting	120.00	Cu.m.	1	
3.4.1.3	302 (11)	Dewatering	Item	LS	Allow	
3.4.1.4	302 (10)	Construction of necessary coffer dams, cribs sheeting shoring and bracing and their subsequent removal	Item	LS	Allow	
		Concrete for structure:				
3.4.1.5	1001 (3)	Concrete Class C Grade 15 (40 mm) as Screed in Pier, Abutment and Wing Wall foundations.	21.00	Cu.m.		
3.4.1.6	1001(1b)	Concrete Class A Grade 30 (20 mm) as Pocket filling in Pier, Abutment and Wing Wall foundations.	50.00	Cu.m.		
3.4.1.7	1001(1b)	Concrete Class A Grade 30(20 mm) for Foundation Concrete in Abutment & Wing walls	138.00	Cu.m.		
3.4.1.8	1001 (3)	Concrete Class C Grade 15 (40 mm) as Mass Concrete in Abutment & Wing walls	818.00	Cu.m.		
3.4.1.9	1001(1b)	Concrete Class A Grade 30 (20mm) in Capping Beams, Ballest walls & Cutain walls.	54.00	Cu.m.		
3.4.1.10	1001(1b)	Concrete Class A Grade 30 (20mm) in Pier foundation	128.00	Cu.m.		
3.4.1.11	1001 (3)	Concrete Class C Grade 15 (40 mm) in Pier Stem	805.00	Cu.m.		

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Form work				
3.4.1.12	1008(2)	Rough finish form work for foundation of Pier, Abutments & Wing Walls	151.00	Sq.m.		1
3.4.1.13	1008(1)	Smooth finish form work for pier, Abutments, Wing Walls, Capping Beams, ballest walls, Curtain walls, bearing pads and others.	2,449.00	Sq.m.		
		Reinforcement				
3.4.1.14	1002(1a)	Fabricating & laying Tor steel reinforcement for Pier, Abutment Wing walls, Capping Beams, ballest walls, Curtain walls, bearing pads and others.	14.365	МТ	7	
3.4.1.15	1002(1b)	Fabricating & laying Mild steel reinforcement.	1.149	МТ		
		Weep Holes				
3.4.1.16	706(1)	Forming weep holes using type 400, PVC pipes of int. dia. not less than 110 mm.	384.00	L.M		
		Drainage & Backfilling				
3.4.1.17	705(1)	Backfill using Aggregate 50-200mm for dry stone lining behind Abutment & Wing wall.	192.00	Cu.m.		
3.4.1.18	705(2)	75mm thick, Filter medium using 37.5 mm aggregate behind Abutment & Wing wall.	21.00	Cu.m.		
3.4.1.19	705 (3)	600x 300mm Clay puddled laid behind Abutment and Wing walls	9.00	Sq.m.		

Item No.	Pay Item	Description	Overtitus	I Imit	Data (Da)	Amount (Da)
item No.	No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		3.4.2 SUPER STRUCTURE				
		Concrete for structures				
3.4.2.1	1001(1b)	Class A concrete of grade 30(20mm) in approach slab.	23.00	Cu.m.		4
3.4.2.2	1001(1)	Class A Concrete of Grade 40(20mm) in Bridge Deck	239.00	Cu.m.		
3.4.2.3	1001(1b)	Class A Concrete of Grade 30(20mm) in Foot Walks	50.00	Cu.m.		
		Beams				
3.4.2.4	1003(1)	Supplying of 13.5 m long P.S.C. concrete beams	100.00	Nos.		
3.4.2.5	1003(2)	Launching of 13.5 m long P.S.C. concrete beams	100.00	Nos.		
		Form work				
3.4.2.6	1008(1b)	Smooth finish form work for Deck & Foot walks.	226.00	Sq.m.		
3.4.2.7	1008(1b)	Smooth finish form work for Approch Slab and Others.	13.00	Sq.m.		
		Reinforcements				
3.4.2.8	1002(1a)	Fabricating & laying Tor steel reinforcement For Deck, Aproch Slab and Foot walk and Others.	9.000	MT		
3.4.2.9	1002(1b)	Fabricating & laying Mild steel reinforcement	0.400	МТ		
		Railings				
3.4.2.10	1018(1)	Standard precast reinforced concrete railings & uprights in class-A,grade.25(20) concrete. (Type drawing T/B/102/B of RDA)	144.00	L.M		
3.4.2.11	1019(1)	Construction of end pilasters type iv with foundation in class A concrete of grade 25(20) (Type drawing T/B/106 - Rev 1)	4.00	Nos.		
		Concrete Kerbs				
3.4.2.12	807(1a)	Standard precast bridge kerbs(new). Type drawing T/B/106 of RDA)	144.00	L.m		
3.4.2.13	807(4)	Constructing 150x50 mm thick insitu Lower kerbs in class B grade 20 (14) concrete for bridge.	144.00	L.m		

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
		Expansion joints				
3.4.2.14	1009(1)	M.S. angle iron & hard rubber expansion joints (Type drawing T/B/107 Rev-1 of RDA)	63.00	L.m		
		Bridge bearings				1
3.4.2.15	1010(2)	75x12mm. Hard rubber bearing pads supplied & laid over capping beam and for approach slab	105.00	L.m		4
		<u>Miscellaneous</u>				
3.4.2.16	1012 (1)	Supplying & fixing 200 mm long, 20mm dia.Stanless steel dowels in capping beam at fixed end.	95.00	Nos.		
3.4.2.17	1011 (1)	Supplying & fixing 200 mm long, 25mm dia.MS steel dowels in Corbel wall for Approch slab fix end.	35.00	Nos.		
3.4.2.18	1011B(1)	Supplying & fixing M.S. Dowels, spliced and dove tailed with wedge at one end,20mm dia. and 1.0 m long,1.20 m C/C Stagered on foundations	192.00	Nos.		
3.4.2.19	1020(1a)	Supplying & fixing 110mm dia. PVC pipes as rain water outlets through deck as per drawing.	40.00	Nos.		
3.4.2.20	1020(1b)	Supplying & fixing 50mm dia. PVC pipes as rain water outlets through duct as per drawing.	40.00	Nos.		
3.4.2.21	1013 (1)	Bituminous sealing material supplied and laid under beam ends to prevent grout leak to capping beam.	63.00	L.m		
3.4.2.22	1014 (1)	Bituminous sealing material supplied and laid under beam ends to prevent grout leak to approch slab.	62.00	L.m		
3.4.2.23	1403(7)	Painting with enamel Two coat to Hand rails, End pilasters of bridge, guard stones	425.00	Sq.m		
3.4.2.24	1015(1)	Supply and placing 200mm dia Displacers of polythene tubes filled with light materials.	1,400.00	L.m		
3.4.2.25	1017(1)	100mm Thick Cover Slab (500x450x100mm sized) for Service Duct in Class B grade 25 (20) Concrete inclusive of light reinforcement.	84.00	Sq.m		
3.4.2.26	1016(1)	Forming of service duct in the deck, 230mm depth and 500mm width	140.00	L.m		

Item No.	Pay Item No.	Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
3.4.2.27	808 (5)	Casting and Fixing standard type guard stone in 225 mm thick cement concrete 1:3:6 (20 mm)	12.00	Nos.		
3.4.2.28	802(1)	Turfing on Embankment slope and in other area as necessary	50.00	Sq.m.		
3.4.2.29	804(1)	Grouted rip rap filled with 1:3 cement mortar as per drawing	120.00	Cu.m.		
3.4.2.30		Construction of 2 Nos. reinforced concrete staircase to access underneath of the bridge	Item	PS	Allow	500,000.00
		Bill No. 3.4 Carried to summary				7

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km)

BILL 1	NO : 4.1 S	ITE CLEARANCE				
Item No.	Pay Item No	Description	Description Quantity		Rate (Rs.)	Amount (Rs.)
4	.1.1	CLEARING AND GRUBBING				
4.1.1.1	201(1)	Clearing and Grubbing inclusive of backfilling holes and trenches caused by removal of stumps.	11,700.00	Sq.m.		
4.1.1.2	201(2)	Removal of trees, girth greater than or equal to 300 and less than 600 mm	25	No.		
4.1.1.3	201(3)	Removal of trees, girth greater than or equal to 600 and less than 1200 mm	13	No.		
4.1.1.4	201(4)	Removal of trees, girth greater than or equal to 1200 and less than 2000 mm	11	No.		
4.1.1.5	201(10)	Removal of overhanging branches of girth exceeding 300 mm	50	No.		
4	.1.2	REMOVAL OF STRUCTURES AND OBSTRUCTION				
4.1.2.1	202(2)	Dismantle & remove concrete structures	25.00	Cu.m		

SITE CLEARING - TOTAL CARRIED TO GRAND SUMMARY

Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
4	.2.1	ROADWAY EXCAVATION				
4.2.1.1	301(1)	Roadway Excavation, soil suitable for construction works.		Cu.m.		
4.2.1.2	301(11)	Roadway Excavation, unsuitable soil for construction works	2,929.92	Cu.m.	\ \ \	
4.2.1.3	301(7)	Excavation in weathered/decomposed rock	884.80	Cu.m.		
4.2.1.4	301(8)	Roadway Excavation, in hard rock(not chemical blasting)	308.00	Cu.m.		
4.2.1.5	301(14)	Roadway excavation in marshy materials/ soil	972.00	Cu.m.		
4.	.2.2	EMBANKMENT CONSTRUCTION				
4.2.2.1	304(1)a	Embankment construction using material (Type II) from roadway excavation compacted in position	1,222.00	Cu.m.		
4.2.2.2	304(2)b	Embankment construction using borrow material (type 1) and compacted in position	868.00	Cu.m.		
4.2.2.3	304(2)a	Embankment construction using borrow material (type II) and compacted in position	250.00	Cu.m.		
4.2.2.4	304(3)	Trimming leveling and compaction of original ground	2,080.00	Sq.m.		
4	.2.3	SOFT GROUND IMPROVEMENT				
4.2.3.1	304(6)	Ground improvement Compacted 150mm - 225mm rubble with 40mm metal	1,296.00	Cu.m.		
4.2.3.2	307(9)	Geo -textile	1,296.00	Sq.m.		

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km)

BILL NO: 4.3 SUB - BASES, BASES AND SHOULDERS

Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
4	J.3.1	SUB BASE				
4.3.1.1	401(1)	Provide and place Sub base as compacted in position Type I	2,973.80	Cu.m.		
4.3.1.2	401(1)	Provide and place Sub base (Capping Layer) as compacted in position Type II	2,699.41	Cu.m.		
4	1.3.2	DENSE GRADED AGGREGATE BASE				
4.3.2.1	405(1)	Provide and place 37.5 mm dense graded aggregate base as compacted in position	2,592.00	Cu.m.		
4	1.3.3	SHOULDERS				
4.3.3.1	409(1)	Earthen shoulder as compacted in position	340.00	Cu.m.		

SUB - BASES, BASES AND SHOULDERS TOTAL CARRIED TO MAIN SUMMARY

RILL	NO:	4.4	SURFA	CINGS

Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
2	4.4.1	PRIME COAT				
4.4.1.1	501(5)	Bituminous Prime coat using MC 30 at 1 ltr/sq.m)	12,960.00	Sq.m.		
4	4.4.2	TACK COAT				
4.4.2.1	502(2)	Tack coat using emulsion CSS1 at rate of 0.5 Lt/Sq.m.	12,960.00	Sq.m.		
4	4.4.3	ASPHALT CONCRETING SURFACING				
4.4.3.1	506(1)	Asphalt concrete surfacing Wearing Course 50mm thick	12,960.00	Sq.m.		
	SUF	RFACINGS TOTAL CARRIED TO MA	AIN SUMMA	ARY		

BILL N	NO :4.5 DR	AINAGE				
Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
		ROADSIDE AND LEAD AWAY SU	JRFACE D	RAINS		
4	4.5.1	EXCAVATION AND BACKFILL				
4.5.1.1	301A(5)	Excavation for lining of drains in unsuitable soil	132.00	Cu.m.		
4	4.5.2	CONCRETING				
4.5.2.1	701 (2)	Lining of drains with in-situ concrete (Class B Grade 25/19)	342.00	Cu.m.		
4.5.2.2	1001 (3)	Class C concrete Grade 15 (37.5 mm) as screed for the foundation	75.00	Cu.m.		
4	4.5.3	PLACING COVER SLAB				
4.5.3.1	701 (6)b	100 mm thick ,Class B Grade25(20) Precast concrete cover slab including reinforcement & formwork	28.00	Sq.m.		
4	4.5.4	REINFORCEMENT				
4.5.4.1	1002(1) a	Steel Reinforcement (Tor Steel)	9.00	Tonnes		
2	4.5.5	FORM WORK				
4.5.5.1	1008(1)	Formwork, Smooth finish	382.00	Sq.m.		
4.5.5.2	1008(2)	Formwork, Rough finish	1,476.00	Sq.m.		
	4.5.6	WEEP HOLES				
4.5.6.1	706(1)	Forming weep holes in Line drains walls using P.V.C. pipes of int. dia. not grater than 50 mm complete with dripledge and surround finished smooth.	100.00	L.m.		

BILL N	O : 4.6 STI	RUCTURES CONSTRUCTION						
Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)		
		STRUCTURES CONSTRUCTION						
4.6.1		EXCAVATION AND BACKFILL FOR STRUCTURES						
4.6.1.1	302 (5)	Excavation in unsuitable soil and backfilling for Structure	158.00	Cu.m.	1			
4.6.1.2	301 A (5)	Channel excavation, unsuitable soil	155.00	Cu.m.				
4.6.2		CONCRETING						
4.6.2.1	1001 (3)	Class C Concrete Grade 15 (37.5 mm) as screed for the foundation	56.00	Cu.m.				
4.6.2.2	1001(1)	Class A Concrete Grade 30(20) in Box structure	50.00	Cu.m.				
4.6.2.3	1001(1b)	Concrete Class A Grade 25(20 mm) Base Concrete for retaining wall	158.00	Cu.m.				
4.6.2.4	1001 (3)	Concrete Class C Grade 15 (40 mm) as Mass Concrete in retaining wall	640.00	Cu.m.				

Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
4.6.3		REINFORCEMENT				
4.6.3.1	1002(1) a	Steel Reinforcement (Tor Steel)	8.00	MT		
4.6.4		FORM WORK				4
4.6.4.1	1008(1)	Formwork, Smooth finish	160.00	Sq.m.		
4.6.4.2	1008(2)	Formwork, Rough finish	940.00	Sq.m.		
4.6.5		WEEP HOLES				
4.6.5.1	706(1)	Forming weep holes using type 400, PVC pipes of int. dia. not less than 110 mm.	100.00	L.m.		
4.6.6		GABION STRUCTURE		-		
4.6.6.1	805(1)	Supply and placing PVC coated Gabbions boxes including rubble filling	819.00	Cu.m.		
4.6.6.2	307(9)	Geo Textile Layer	954.00	Sq.m.		
4.6.6.3	304(6)	Compacted rubble base 150mm- 225mm rubble with 40mm metal at bottom of gabion walls	286.00	Cu.m.		
4.6.7		RETAINING WALL STRUCTURE	E			
4.6.7.1	705(1)	Backfill using Aggregate 50-200mm for dry stone lining behind retaining wall	373.00	Cu.m.		
4.6.7.2	705(2)	75mm thick, Filter medium using 37.5 mm aggregate behind retaining wall	55.00	Cu.m.		
4.6.7.3	705 (3)	Clay puddled laid behind retaining wall	35.00	Cu.m.		
STI						

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km)

BILL N	IO :4.7 'IN	ICIDENTAL CONSTRUCTIONS				
Item No.	Pay Item No	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
4	.7.1	TOP SOILLING AND GRASSING				
4.7.1.1	802(1)	Turfing on Embankment slope and in other area as necessary	2,700.00	Sq.m.		
4	4.7.2 ROAD MARKING PAINT (3 mm thick)					
4.7.2.1	810(1) a	Road line marking 100mm width, using thermoplastic material (White, Yellow)	406.00	Sq.m.	1	
4	.7.3	ROAD SIGNS				
4.7.3.1	811(1)	Reflective road signs single pole, sign area up to 0.5 m ²	30.00	No.		
4.7.3.2	811(2)	Reflective road signs double pole, sign area up to 2.0 m ²	8.00	No.		
II	INCIDENTAL CONSTRUCTIONS TOTAL CARRIED TO MAIN SUMMARY					

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km), INCLUDING TWO BRIDGES AT CH 07+960km AND CH 08+380km

BILL NO:5 SHEDULE OF DAY WORK RATES

5.1 / LABOUR DAY WORKS

All Quantities are Provisional

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs)
1	Surveyor	Hrs	60		
2	Survey Assistant (Skilled)	Hrs	60		\
3	Laboratory Technician (Skilled)	Hrs	60)
4	Cad Operator	Hrs	60		
5	Draughtman	Hrs	60		
6	Operator, Light Equipment	Hrs	70		
7	Driver, Heavy Duty Vehicles	Hrs	70		
8	Driver, Light Duty Vehicles	Hrs	70		
9	Mechanic	Hrs	40		
10	Welder	Hrs	40		
11	Electrician	Hrs	40		
12	Mason	Hrs	45		
13	Semi- skilled Labour	Hrs	45		
14	Unskilled Labour	Hrs	60		
	T al	Nour Doy V	Vorte Comind	to summon	

Labour Day Works Carried to summary

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km), INCLUDING TWO BRIDGES AT CH 07+960km AND CH 08+380km

BILL NO:5 SHEDULE OF DAY WORK RATES

5.2 / MATERIAL DAY WORKS

A 11	Quantiti	es are F	Provision	al
AH	Quantuu	es are r	TOVISION	aı

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs)
1	Aggregate base, dense graded (37.5 mm)	cu.m	8		
2	Aggregate, 12 mm	cu.m	3		7
3	Aggregate, 19 mm	cu.m	2		
4	Aggregate, 37.5 mm	cu.m	3		
5	Asphalt concrete, cold mix	mt	2		
6	Asphalt concrete, hot mix (Surfacing Material)	mt	2		
7	Bitumen emulsions, (CRS 1, CRS 2, CSS 1)	ltr	35		
8	Bitumen prime coat, cutback MC 30	ltr	35		
9	Cement, ordinary Portland	nr	15		
10	Concrete pipe, reinforced 600 mm diameter, 2.4m length	nr	1		
11	Concrete, Grade 15/20	cu.m	2		
12	Concrete, Grade 20/20	cu.m	2		
13	Concrete, Grade 25/20	cu.m	2		
14	Paint, emulsion	ltr	4		
15	Paint, enamel	ltr	4		
16	Lime	kg	20		
17	Reinforcement, high-yield steel, Grade 460/425	kg	30		
18	Reinforcement, mild steel, Grade 250	kg	30		
19	Rubble, 150 - 225 mm	cu.m	2		
20	River Sand	cu.m	4		
21	Auto diesel	ltr	50		
22	Petrol	ltr	45		
23	kerosene Oil	ltr	10		
	Material Day works Carried to Summary:				

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (FROM CH 7+560km TO CH 9+300km), INCLUDING TWO BRIDGES AT CH $07+960\mathrm{km}$ AND CH $08+380\mathrm{km}$

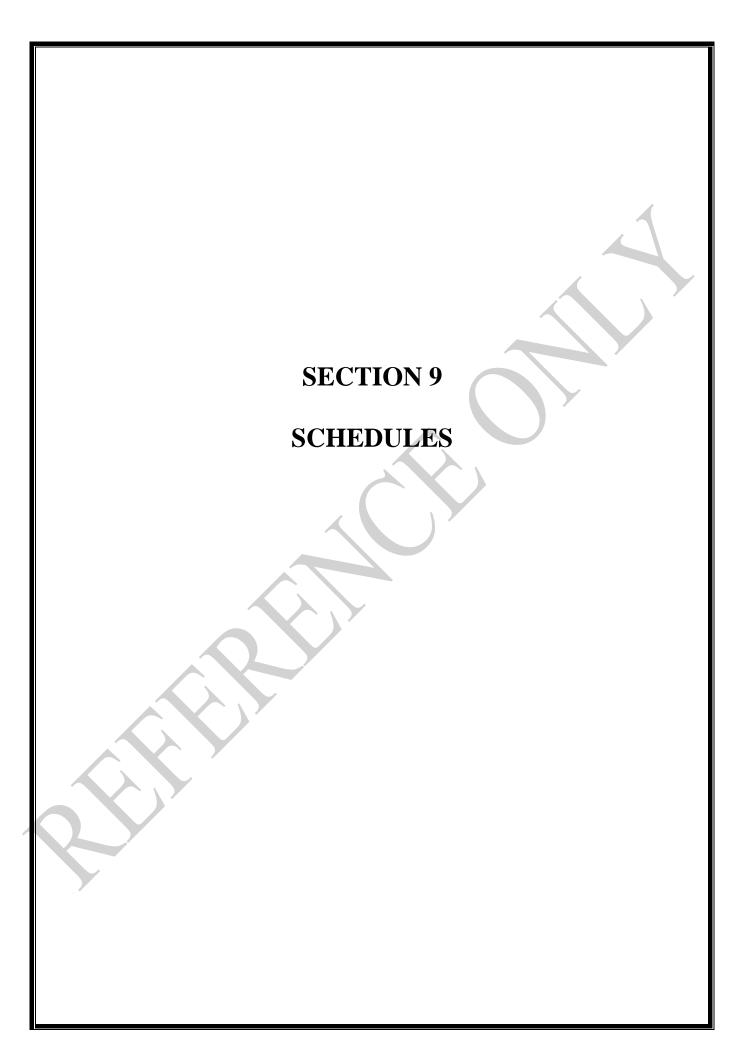
BILL NO:5 SHEDULE OF DAY WORK RATES

5.3 / EQUIPMENT DAY WORKS

All Quantities are Provisional

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs)
1	Lorry, 5 to 10 tonnes	Km	100		
2	Water Bowser, up to 6,000 litres with Spray Bar	hr	6		
3	Farm Tractor & Broom over 2m width	hr	6		
4	Backhoe, wheeled, 4 WD	hr	7		
5	Motor grader, up to 100 HP (65 HP)	hr	6		
6	Hand roller, vibratory, 1/2 - 1 tonne	hr	15		
7	Plate compactor, vibratory, over 90 kg	hr	10		
8	Rammer, mechanical, over 60 kg	hr	10		
9	Water pump with hoses, clear water 4 inch	hr	6		
10	Concrete mixer, 200 ltr (10/7)	hr	6		
11	Welding set, electric, 300 - 400 amp	hr	6		
12	Porker Vibrator, petrol driven	hr	10		
	Emilion	Do	wks sammind to	- C	

Equipment Day works carried to Summary



		- General Informa	
For Joint V	enture partners, each partner shall f	urnish information sep Information	arately
Clause	Description	To be filled by	Remarks
Reference	Description	Bidder	ACMAI KS
	CIDA Registration		Provide certified copies and
	Registration Number		label as attachment to Clause
	Grade		3.1
3.1	Specialty		
3.1	Expiry Date		
	Number		
	Expiry Date		
4.1(a)	I and Status		Provide certified copies of
4.1(a)	Legal Status		registration
	Written power of attorney to the	Provide original or cert	ified copy of the power of
	signatory to the bid (bids signed by	attorney attested by a N	lotary and label as attachment to
	other than the authorized person,	Clause 4.1(a)	
	shall be rejected)		
	If a Joint Venture, names and	1	Provide draft copy of Joint
	addresses of Joint Venture partners	2	Venture agreement
		3	
	If a Joint Venture, name of the Lead		
	Partner	Y	
	For Joint Ventures, each JV partne	r shall furnish legal sta	tus separately
	Name (lead partner)		Provide certified copies and
	Legal status		label as attachment to Clause
	Place of registration		4.1(a)
	Principal place of business		
	Written power of attorney of the	Provide original or cert	ified copy of the power of
	signatory to the Bid	attorney attested by a N	lotary and label as attachment to
		Clause 5.1	
	VAT Registration No.		
	Name (Partner 2)		Provide certified copies and
*	Legal status		label as attachment to Clause
	Place of registration		4.1(a)
	Principal place of business		
	Written power of attorney of the	Provide original or cert	ified copy of the power of
	signatory to the Bid	attorney attested by a N	lotary and label as attachment to
		Clause 5.1	

VAT Registration No.		
Name (Partner 3)		Provide certified copies and label
Legal status		as attachment to Clause 4.1(a)
Place of registration		
Principal place of business		
Written power of attorney of the	Provide original or cer	rtified copy of the power of
signatory to the Bid	attorney attested by a	Notary and label as attachment to
	Clause 5.1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
VAT Registration No.		

Schedule 2 – Annual Turnover Information For Joint Ventures each partner shall submit the information separately				
Year	Turnover	Remarks		
1		Attach audited reports and label as attachment to Clause 4.2		
2				
3				
4	4			
5				

Schedule 3 – Adequacy of Working Capital				
Source of Credit Line	Amount	Remarks		
		Provide documentary evidence and label as attachment to Clause 4.2		
Total				

Schedule 4 - Financial Data (As per Latest Audited Financial Statement)		2021/2022 or latest
1	Current Assets	
2	Current Liabilities	
3	Working Capital(1-2)	
4	Works in hand	
5	Line of credit**	
6	Available Liquid Asset {3-(0.1)x4+5}*	

^{*} This amount shall be not less than the amount given in clause 4.2 of ITB.

^{***} Bidder available working capital should be equal to the 50% of minimum amount of liquid assets.(i.e Rs 51.0 Mn) Line of credit shall be provided only to satisfy balance amount of liquid assets

		rience in last five years ish information separatel	y	Y
Year	Employer	Description of Works	Amount	Contractors Responsibility (%)
		1		

Schedule 6 – Major Items of Construction Equipment Proposed				
Type Capacity	Own, Lease or hire			

^{**} Line of credit if provided shall strictly be as per Form No. 07 provided.

Schedule 7 – Construction Management Staff						
A: Key Professional						
Name	Position	Task				
		4				
B: Support Staff						
Name	Position	Task				

Posi	Schedule 8 – Time Schedule for Key Staff	Months(in the form of a Bar Chart)	Activitie 1 2 3 4 5 6 7 8 9 10 11 12 Number of Months			
			Position Activitie			

Schedule No. 09 (a)

Non-Performance Contracts - Notice to Correct Issued

[The following table shall be filled in for the bidder and for each partner of a Joint Venture]

Date:	
Contract No.:	
Bidder's Legal Name:	
Page of	

1. History of Non Performing Contracts – Notice to Correct Issued

		Non-Performing Contracts	
N in st	aforced prior to 05/0 ab clause 4.2 (h) fotice to Correct on	the poor performance or similar notice as per the relevant 04/2023 had not been issued as specified in Section the poor performance or similar notice as per the relevant 04/2023 has been issued as specified in Section II,	on II, Bidding Data, COC, which is
Year	Non Performed Portion of Contract	Contract Identification	Total Contract Amount (LKR)
insert vear]	[insert amount and percentage]	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for Notice to Correct: [indicate main reason(s), attach copy of Notice to Correct] Whether Remedies taken: (Yes/No) (If yes, attach Engineer's certificate) Current Status of Contract: (indicate completed/ongoing/referred to dispute resolution mechanism etc)	[insert amount]
		Signature of the	ne Bidder
the Affi	irmant and he havin	g contracts listed in schedule no. 09 (a) having been duly reg understood the contents of same, signed before me at	
		Attorney at 1	

 $Note-if\ does\ not\ provide\ all\ non\ performing\ contracts\ shall\ be\ treated\ as\ non\ -\ responsive\ according\ to\ the\ clause\ 3.3\ of\ ITB$

Schedule No. 09 (b) Non-Performance Contracts – Terminated

IThe	e fo	llowing	table sl	hall be f	illed in f	or the	bidder	and for	each i	partner (of a Joint	Venture]
	J							· · · · · · · · · · · · · · · · · · ·	· · · · I			

Date:

		Non-Performing Contracts	
noose on	ne of the following		
		s due to the Contractor's default did not occur with excified in Section II, Bidding Data, sub clause 4.2 (I	
		ts due to the Contractor's default occurred within last section II, Bidding Data, sub clause 4.2 (h)	five (5) years prior to
Year	Non Performed Portion of Contract (Rs)	Contract Identification	Total Contract Amount (LKR)
insert ear]	[insert amount and percentage]	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for non-performance/termination: [indicate main reason(s), attach relevant details] Current Status of Contract: (indicate completed/ongoing/ referred to dispute resolution	[insert amount]
e foregoii		Signature of contracts listed in schedule no. 09 (b) having been duly understood the contents of same, signed before me at .	y read over and explaine
	this	2023 [date]	

Note – if does not provide all non performing contracts shall be treated as non - responsive according to the clause 3.3 of ITB

Schedule No. 10 Pending Litigation and Arbitration

Each Bidder must fill out this form if so required under Criterion 4.2 (i) of Section 2, Bidding Data to describe any pending litigation or arbitration formally commenced against it.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Vent	ture Partner:			
		Pending I	itigation and Arbitration	
Choose one	e of the following	ion and Auhituation	in accordance with continu II Didding	Poto sub clouse 4.2 (i)
Belo			in accordance with section II, Bidding on and arbitration in accordance with sclause 4.2 (i)	
Year of Dispute	Amount of Dispute	Outcome as percentage of Net worth	Contract Identification	Total Contract Amount
			Contract Identification (insert contract name, number and any other identification) Name of Employer (insert full name) Address of Employer (insert street, city, town) Matter in dispute (indicate main issues in dispute) Status of dispute (indicate if it is being treated by the adjudicator, under arbitration or being dealt with by the judiciary)	
			Signature of	of the Bidder
having und		ts of same, signed l	ving been duly read over and explain before me at	•
			Attorney	at Law

Note – if does not provide all pending litigation arbitration shall be treated as non responsive according to the clause 3.3 of ITB

	te)						,	
	$(1^{st}, 2^{nd}$ etc. are months from the Start Date)	12 th				~		
	om the	$11^{ m th}$						
	onths fr	10 th						
	are m	фб						
	,nd etc.	8 ^t h						
	(1 st , 2	7 th						
		9		_				
		5^{th}						
		4 th						
		3 rd	X					
		2 nd						
ne		1st						
gramı		ty						
k Pro		Activi						
- wor		tion						
Schedule 11 – work Programme		Construction Activity						
chedu		Coi						
Š								

SECTION – 11

STANDARD FORMS (BID)

FORM NO. 06: Form of Bid Security

FORM NO. 07: Form for the Affidavit for the Current Contractual Commitments FORM NO. 08: For Letter from the Bank for Granting of A Revolving Line of Credit

FORM OF BID SECURITY

[this Guarantee form shall be filled in accordance with the instructions indicated in brackets]
[insert issuing agency name, and address of issuing branch or office]
Beneficiary: Director General, Road Development Authority, "MagaNeguma Mahamedura" 216, Denz Kobbekaduwa mawatha, Battaramulla, Sri Lanka.
Date:[insert (by issuing agency) date]
BID GUARANTEE No.: [insert (by issuing agency) number]
We have been informed that
Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.
At the request of the Bidder, we
 i. has withdrawn its Bid during the period of bid validity specified; or ii. does not accept the correction of errors in accordance with the Instruction to Bidders (hereinafter "the ITB") of the IFB or
 iii. having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.
This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not successful bidder, upon the earlier of the successful bidder furnishing the performance security otherwise it will remain in force up to
Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that dat
Signature and the Seal of the Guarantor: Name of the Organization
Date:
Witness:

Note: Any bid security which has deviated from this bid Security format shall be considered as non responsive

FORM FOR THE AFFIDAVIT FOR THE CURRENT CONTRACTUAL COMMITMENTS

Director General, Road Development Authority

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)
Highways*				
Dwidoos*				
Bridges*				
				,
				/
Buildings*				
▼ • ,•) '	
Irrigation*				
#				
	- 4 }			
	T	otal		
_		otai		

	• • • • • • • • • • • • • • • • • • • •
Signature	of the Bidder
The foregoing Affidavit having been duly read over and explained by me to	the Affirmant and he having
understood the contents of same, signed before me at	[<i>Place</i>], on this

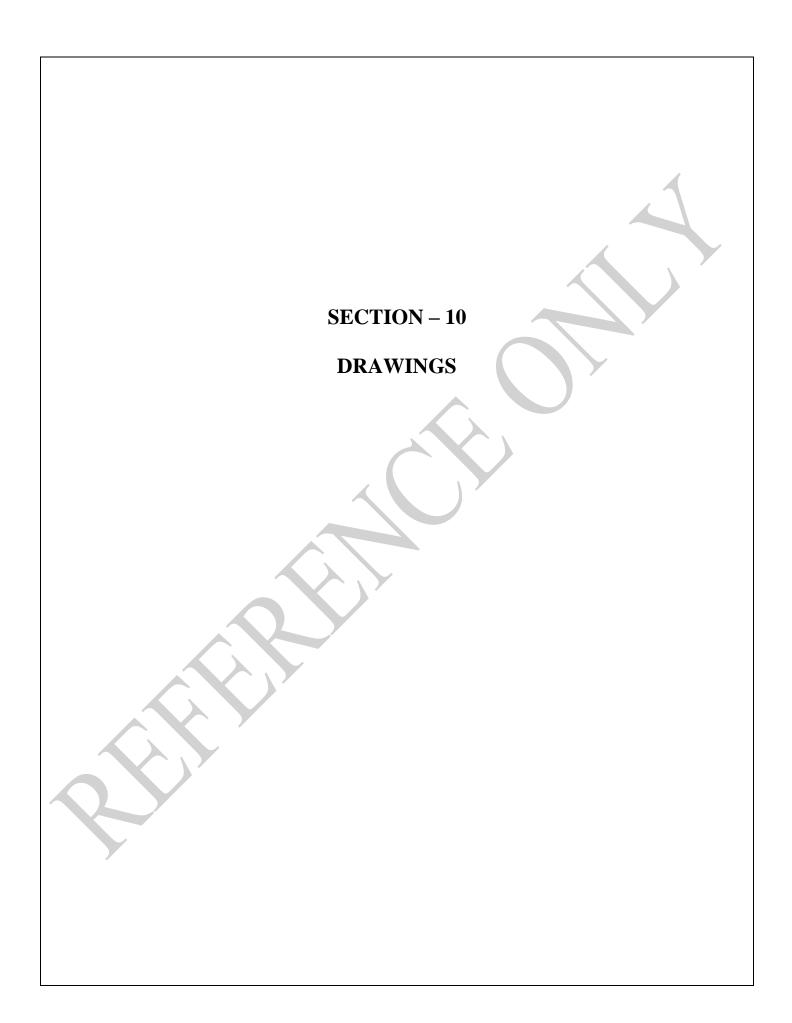
Justice of The Peace

- * Add additional rows to include all the current projects if needed
- # Add additional speciality to include all the current projects

Note – if does not provide all contract commitment shall be treated as non responsive according to the clause 3.3 of ITB

FOR LETTER FROM THE BANK FOR GRANTING OF A REVOLVING LINE OF CREDIT

FROM	1 :	
ТО	:	Director General, Road Development Authority (RDA) "MagaNeguma Mahamedura" 216, Denzil Kobbekaduwa mawatha, Battaramulla Sri Lanka
SUB	:	Letter from the Bank for providing a line of credit in favour
		of (1) in case of award to them of works for the
		Contract of execute 'CONSTRUCTION OF RAJAMAWATHA
		EXTENTION ROAD FROM KETAWALA TO MASPANNA
		(FROM CH 7+560km TO CH 9+300 km), INCLUDING TWO
		BRIDGES AT CH 7+960 km AND CH 8+380 km ', under contract No:
		RDA/DC/UVA/FD/GOSL/2023/02
Dear S	Sir.	
		bankers of (3)hereby agree to grant
	_	of credit for an amount of Sri Lanka Rupees for the purpose of the
		the Civil Work Contracts under the Contract of execute 'CONSTRUCTION OF
	RAJAMAV	VATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA
	(FROM CH	I 7+560km TO CH 9+300 km), INCLUDING TWO BRIDGES AT CH
	7+960 km A	AND CH 8+380 km 'Contract No: RDA/DC/UVA/FD/GOSL/2023/02 revolving line of
	credit will be a	maintained until the works are taken over by the RDA.
a:	141 0 1 04	
•	and the Seal of the Organization	ne Guarantor:
Date:		
Witness: .		
Notes		
(1)	Name of B	eneficiary / Bidder
(2)	Name of B	ank
(3)	Name of B	eneficiary / Bidder
(4)		onal line of credit will be accepted and any letter of line of credit, which has deviated from the





GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS



ROAD DEVELOPMENT AUTHORITY

CONSTRUCTION OF BRIDGE ACROSS BOGAHAKUBURA ELA ON HALIELA KETAWALA TO KANDY RAJA MAWATHA.

DETAILED DESIGN DRAWINGS

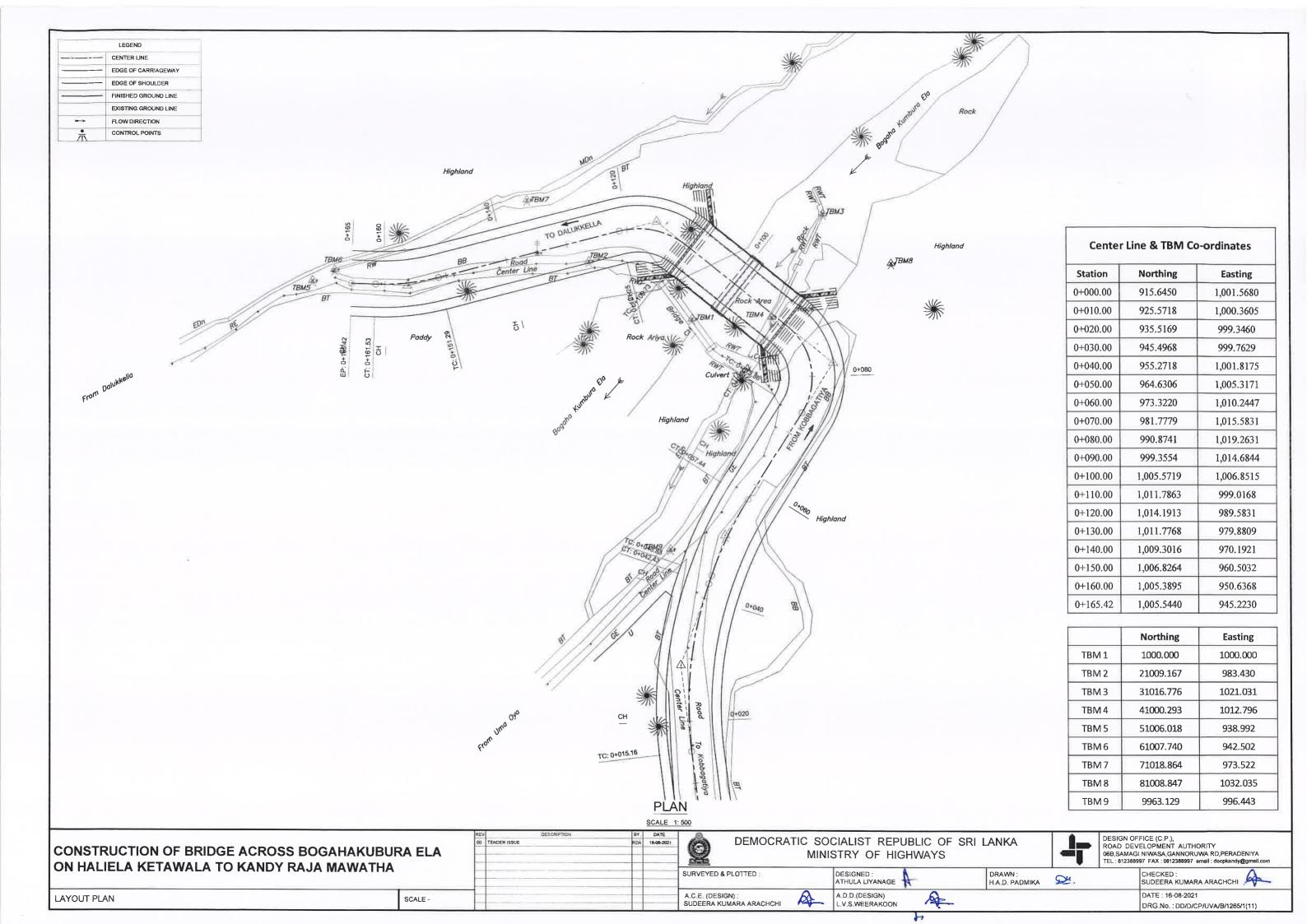
MARCH 2023

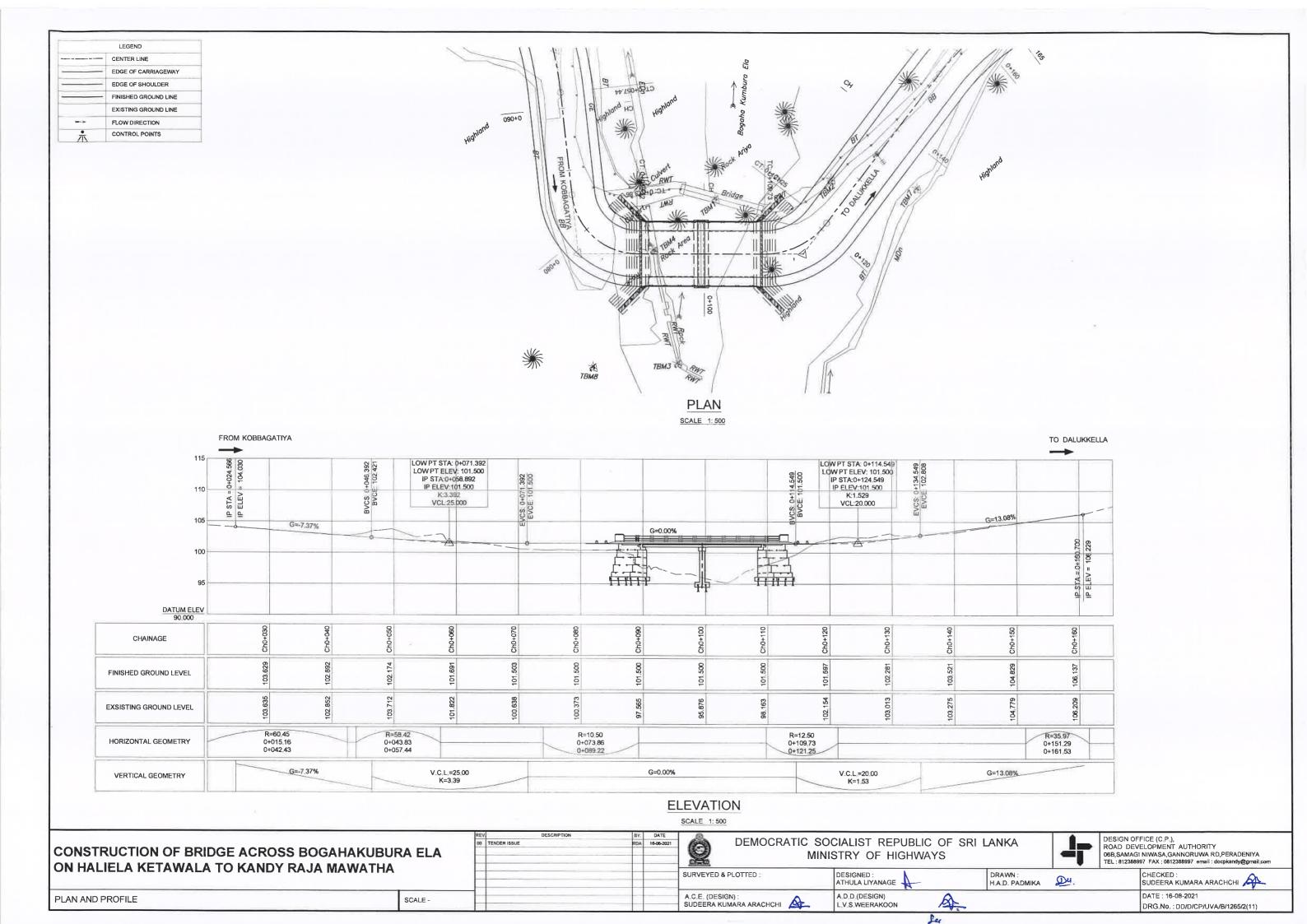
Design Office (Central Province)

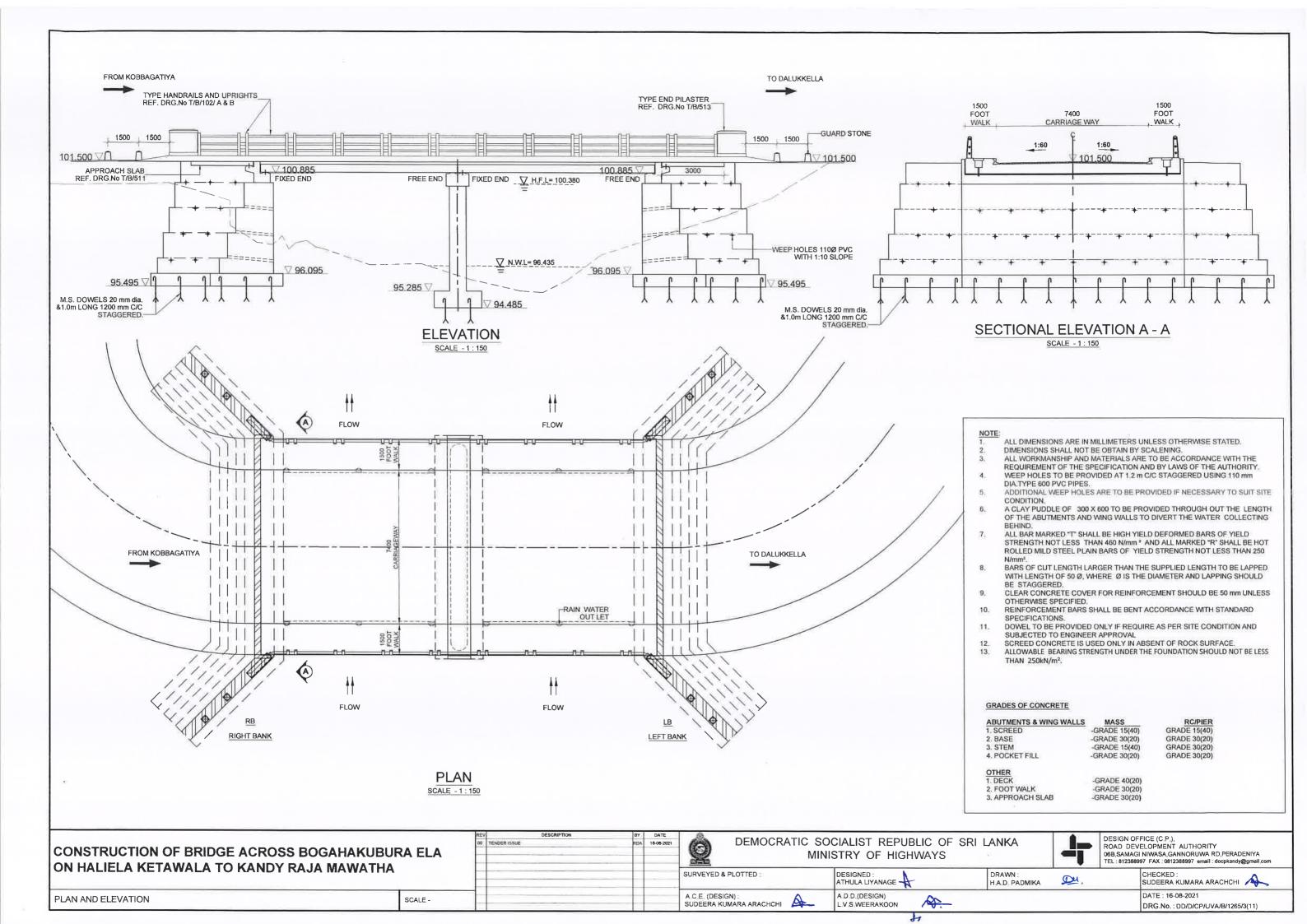
Road Development Authority

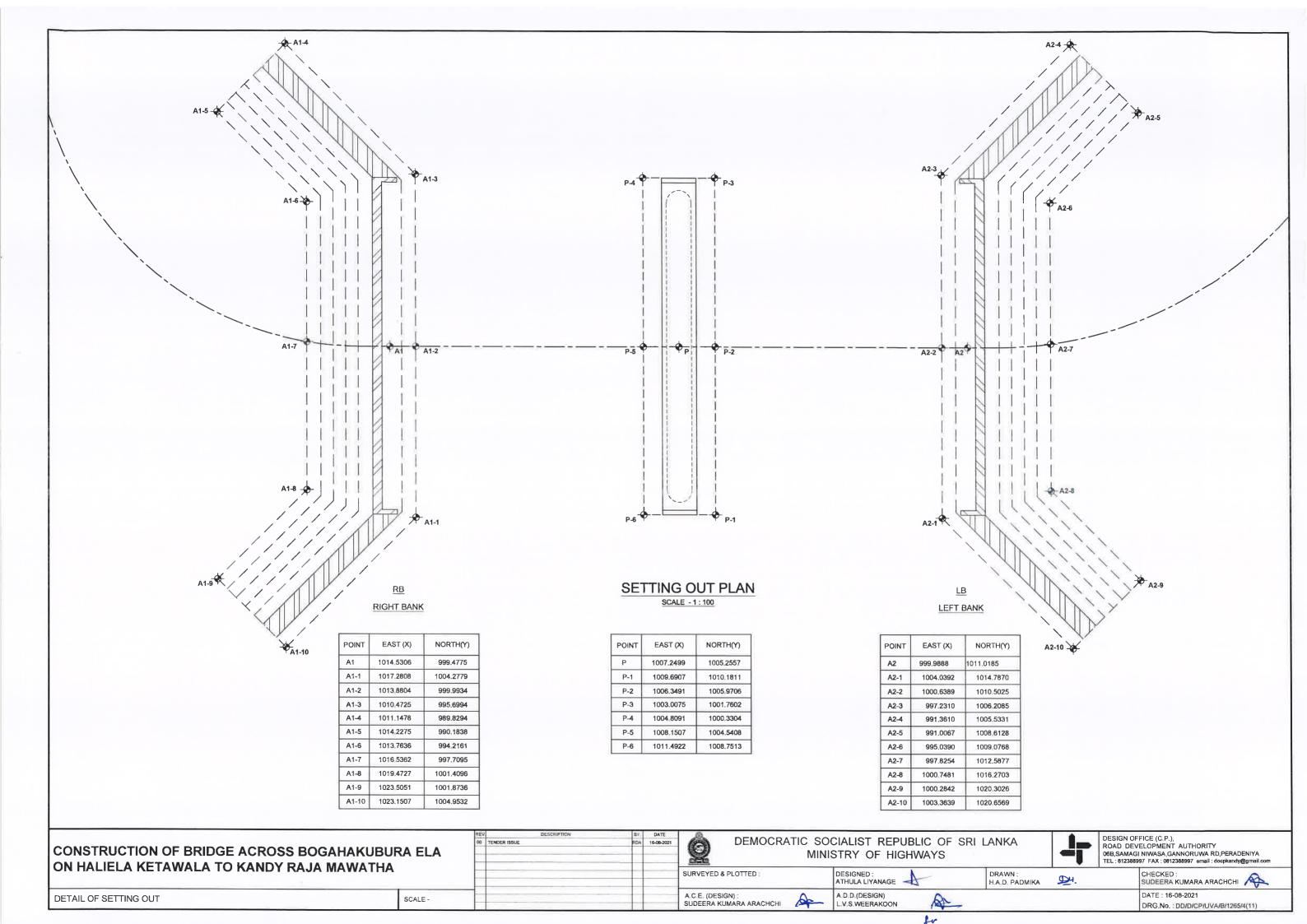
06B, Samagi Niwasa, Gannoruwa Road

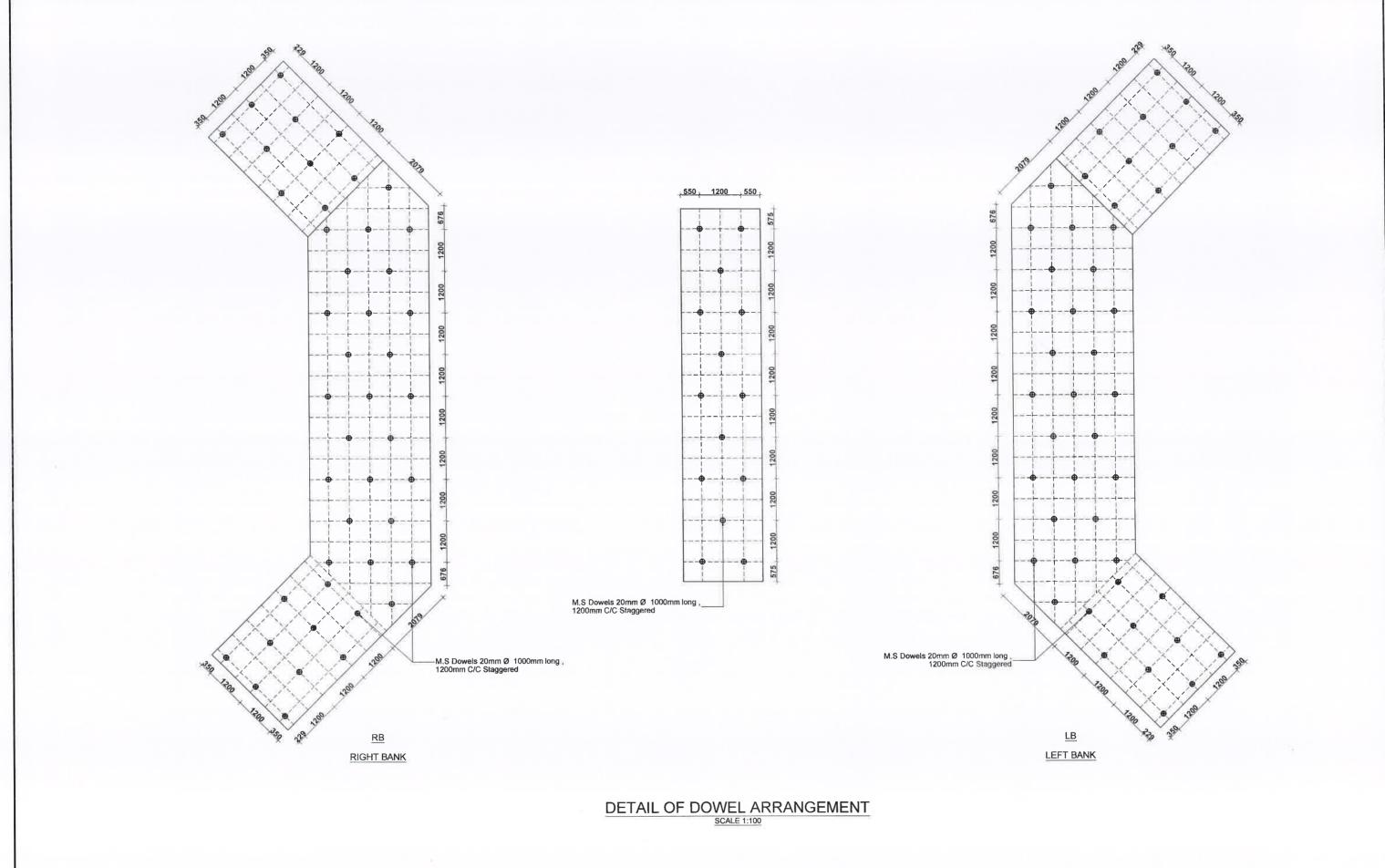
Peradeniya.











DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 812388997 FAX: 0812388997 email: docpkandy@gmail.com

CONSTRUCTION OF BRIDGE ACROSS BOGAHAKUBURA ELA

SURVEYED & PLOTTED: A.C.E. (DESIGN): SUDEERA KUMARA ARACHCHI DESIGNED: ATHULA LIYANAGE

DRAWN: H.A.D. PADMIKA

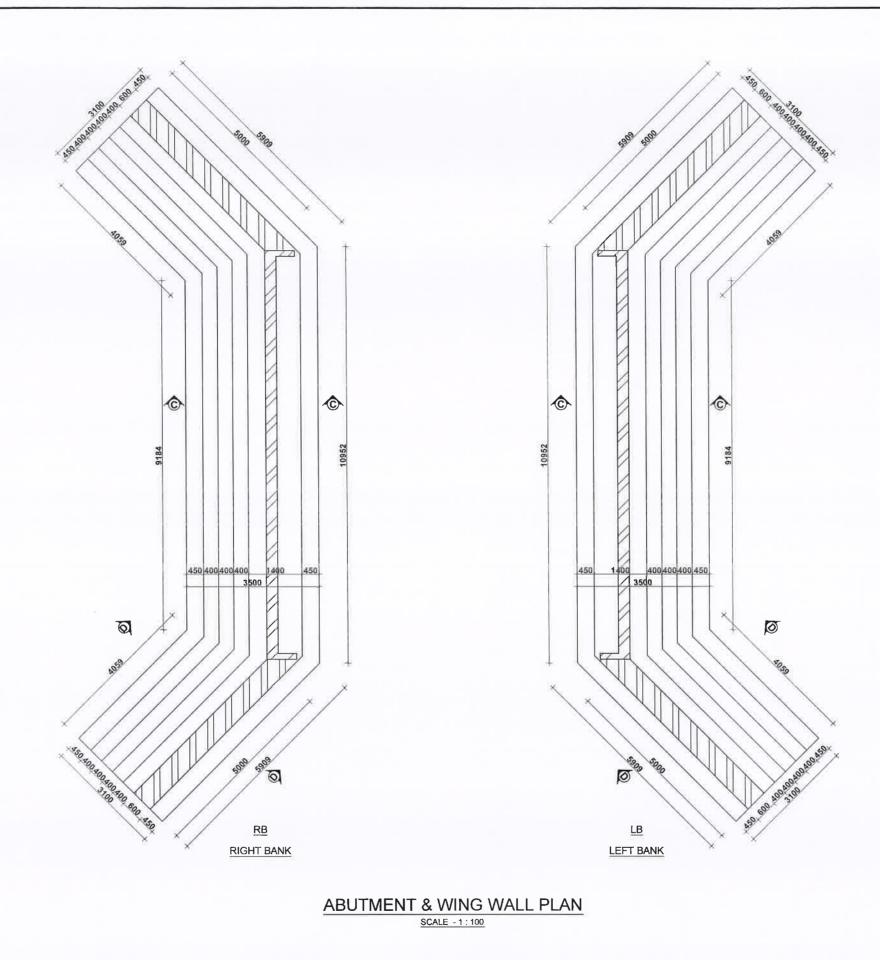
CHECKED: SUDEERA KUMARA ARACHCHI س

DETAIL OF DOWEL ARRANGEMENT

ON HALIELA KETAWALA TO KANDY RAJA MAWATHA

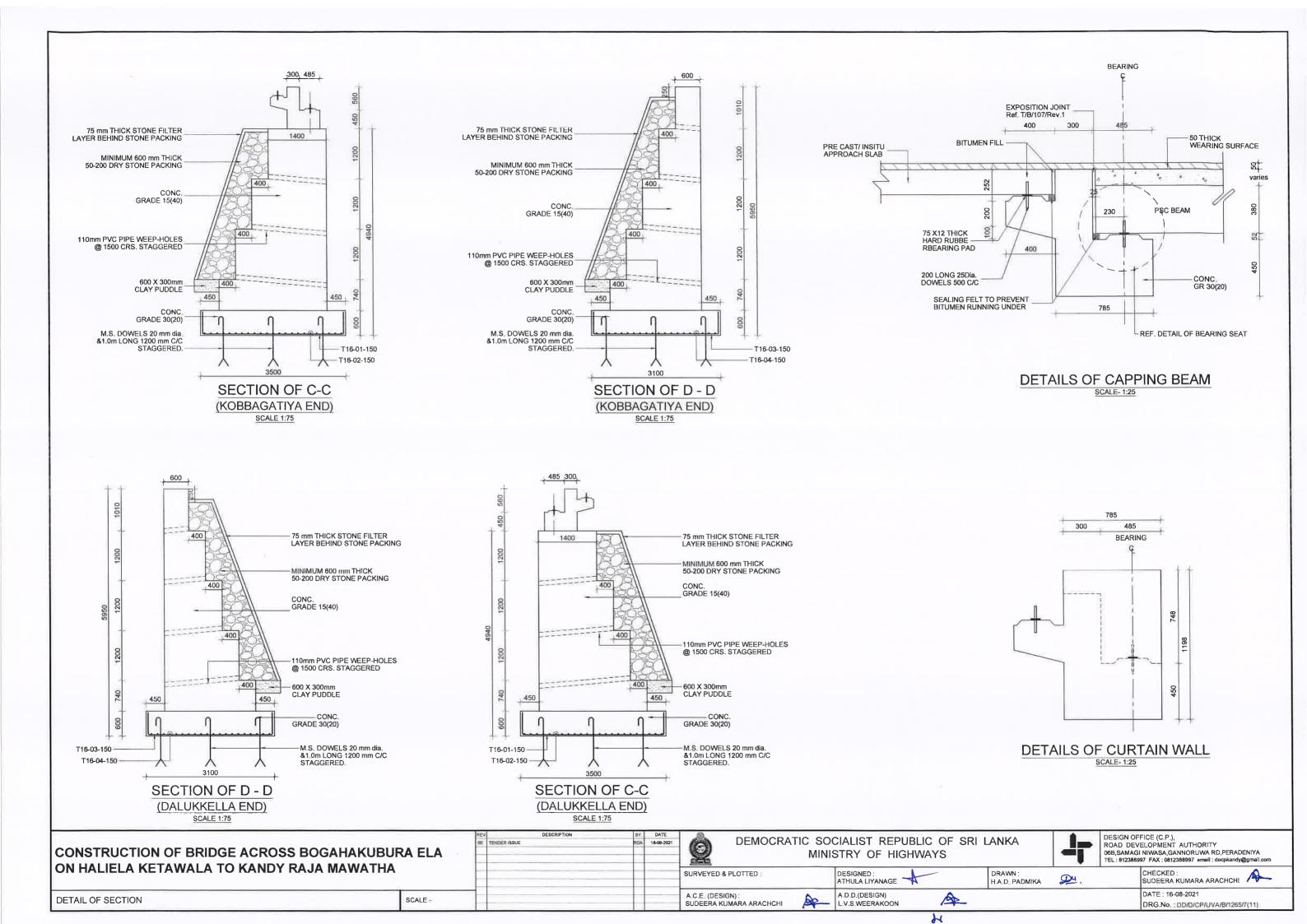
A.D.D.(DESIGN) L.V.S.WEERAKOON

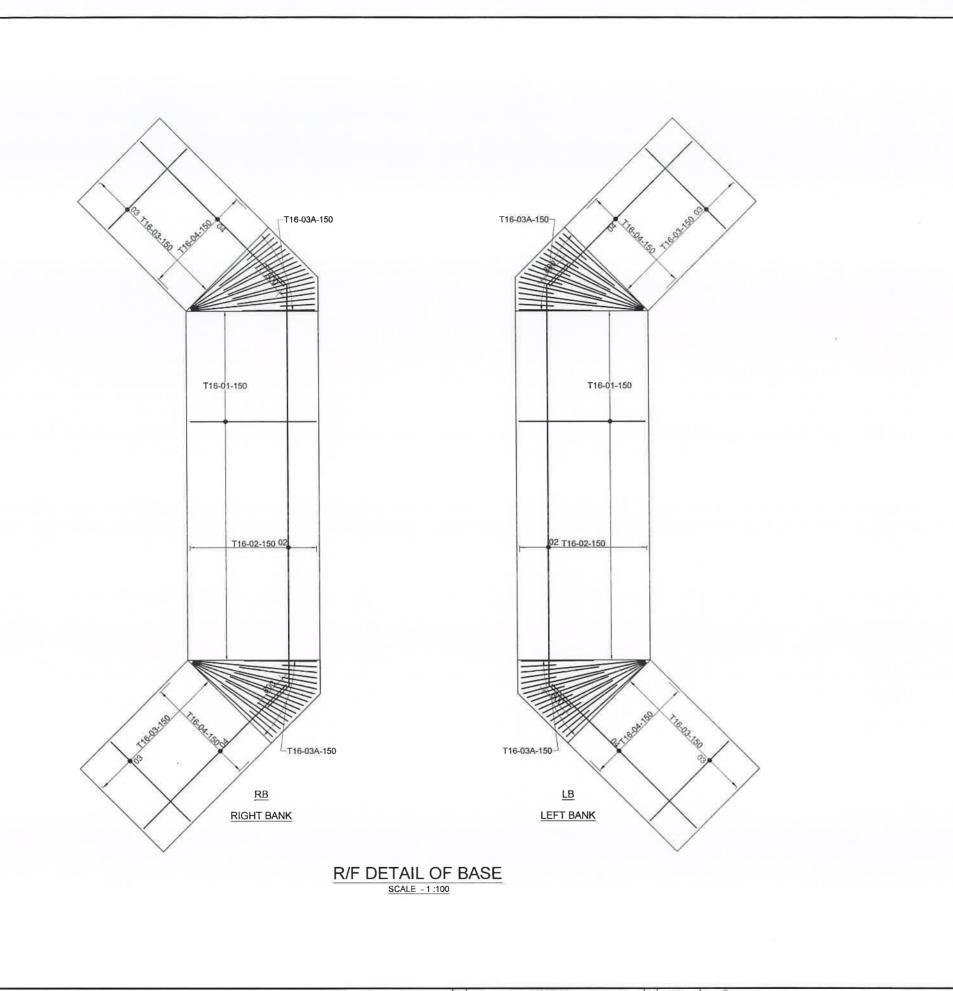
DATE: 16-08-2021 DRG.No.: DD/D/CP/UVA/B/1265/5(11)

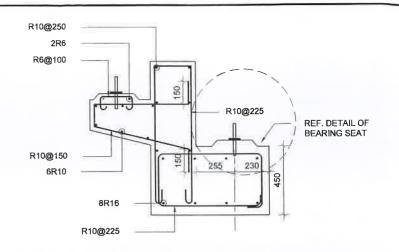


DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY

06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 812388997 FAX: 0812388997 email: docpkandy@gmail.com DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA 16-08-2021 CONSTRUCTION OF BRIDGE ACROSS BOGAHAKUBURA ELA MINISTRY OF HIGHWAYS ON HALIELA KETAWALA TO KANDY RAJA MAWATHA CHECKED: SUDEERA KUMARA ARACHCHI DESIGNED : ATHULA LIYANAGE DRAWN: H.A.D. PADMIKA SURVEYED & PLOTTED Du DATE: 16-08-2021 A.D.D.(DESIGN) L.V.S.WEERAKOON A C E (DESIGN) : SUDEERA KUMARA ARACHCHI A SCALE -DETAIL OF ABUTMENT AND WING WALL PLAN DRG.No. : DD/D/CP/UVA/B/1265/6(11)

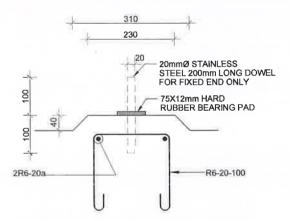




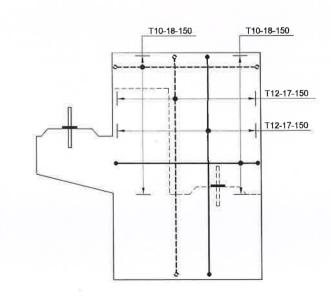


R/F DETAILS OF CAPPING BEAM

SCALE 1:25



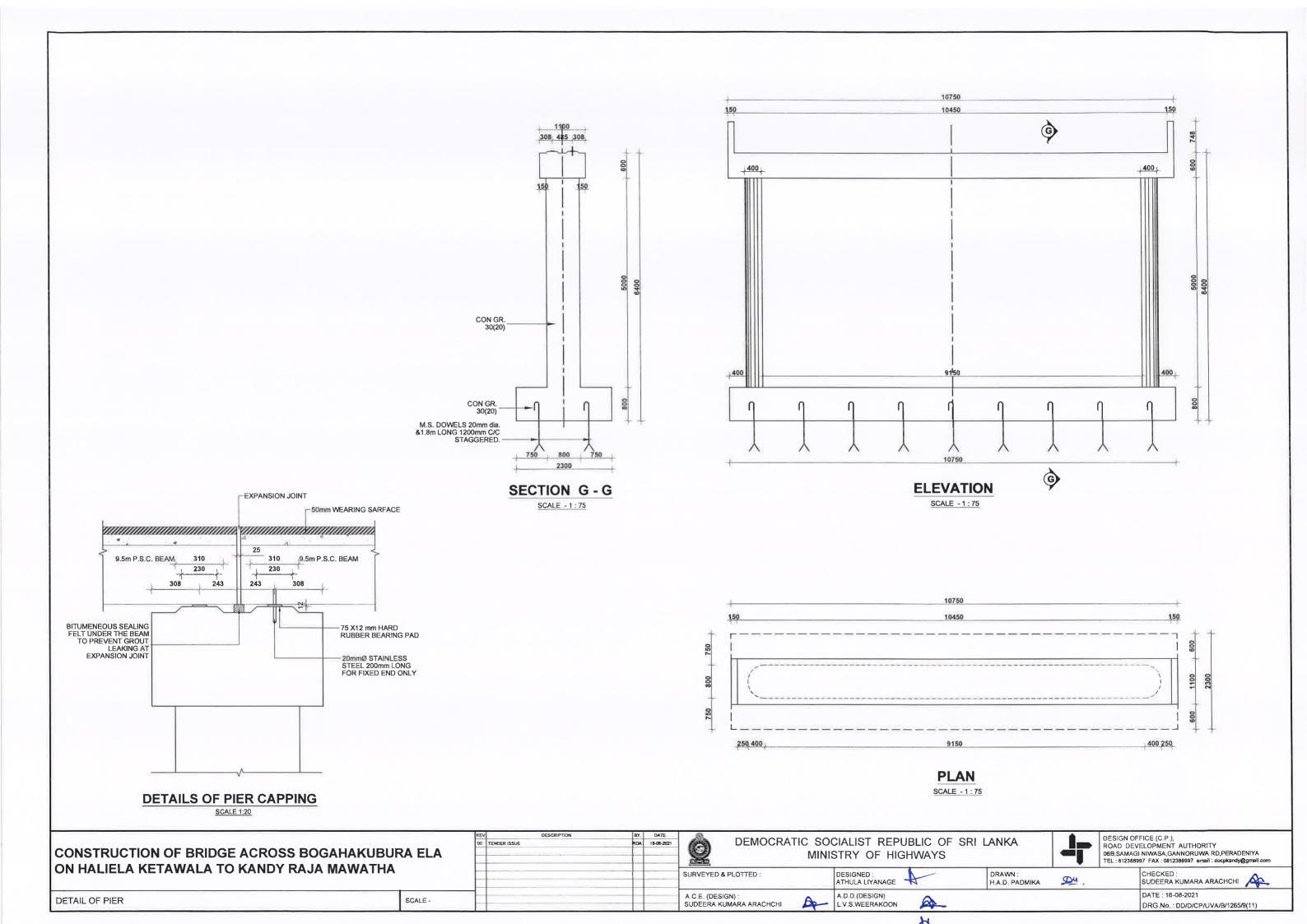
DETAIL OF BEARING SEAT SCALE -1:10

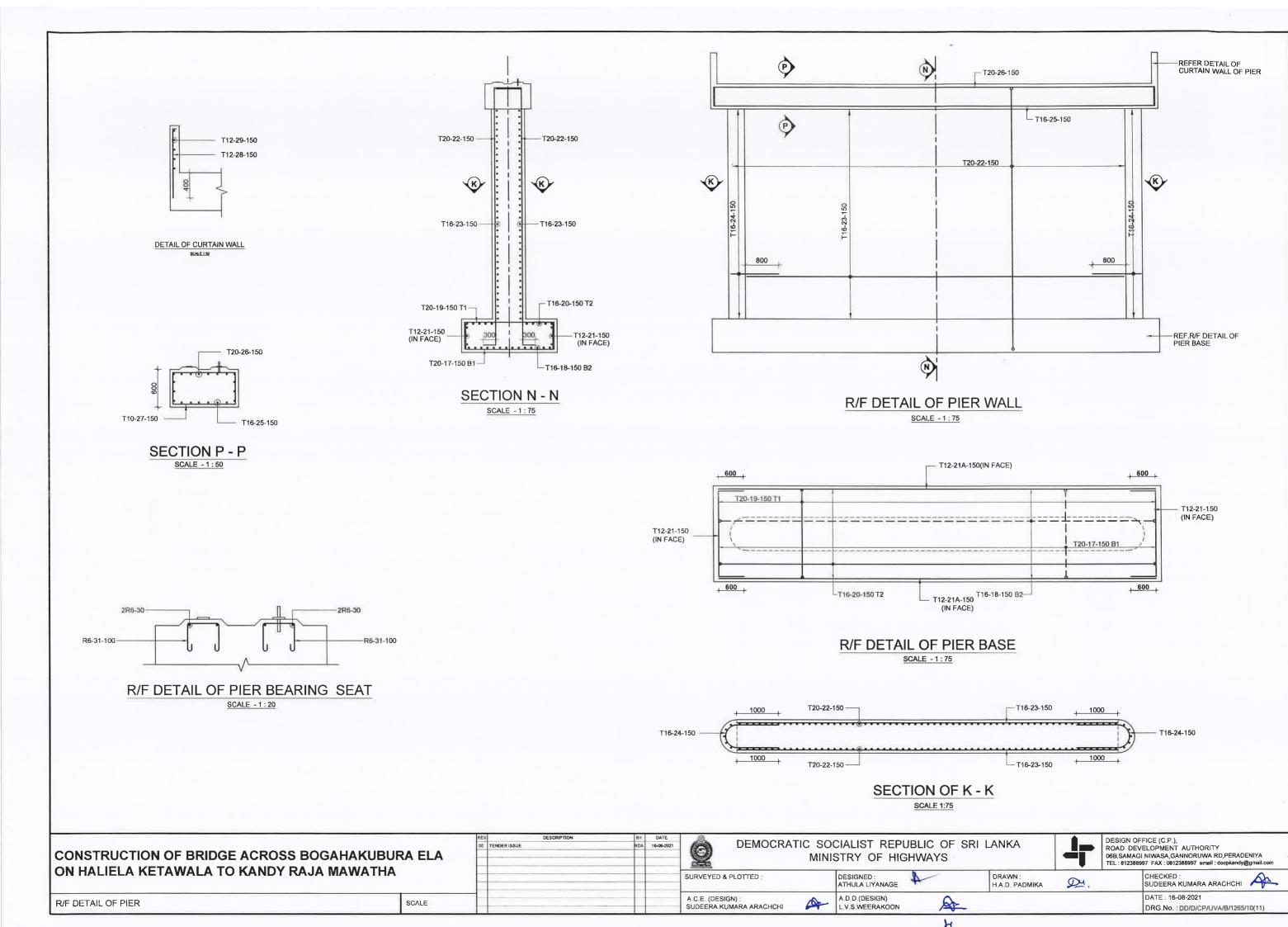


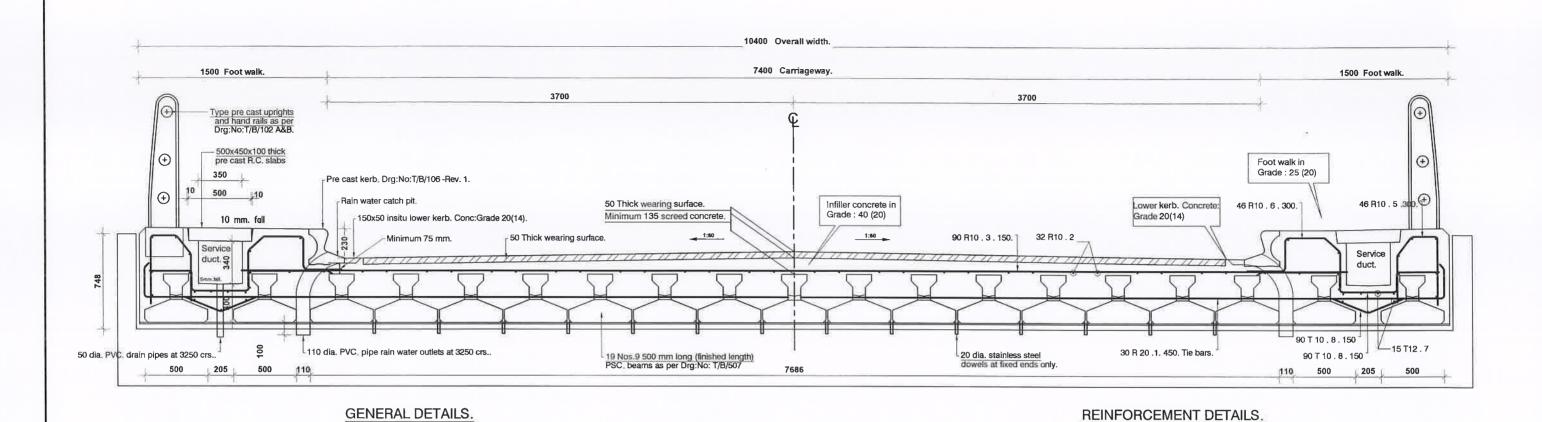
R/F DETAILS OF CURTAIN WALL

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY

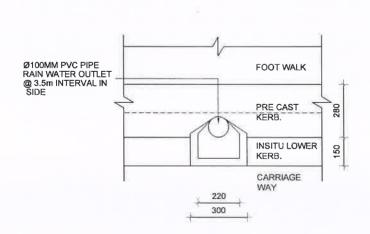
06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 812388997 FAX: 0812388997 email: docpkandy@gmail.com DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA CONSTRUCTION OF BRIDGE ACROSS BOGAHAKUBURA ELA MINISTRY OF HIGHWAYS ON HALIELA KETAWALA TO KANDY RAJA MAWATHA DRAWN: H.A.D. PADMIKA CHECKED : SUDEERA KUMARA ARACHCHI DESIGNED: SURVEYED & PLOTTED: Qu DATE: 16-08-2021 A.C.E. (DESIGN) : SUDEERA KUMARA ARACHCHI A.D.D.(DESIGN) L.V.S.WEERAKOON SCALE -R/F DETAIL OF BASE AND CAPPING BEAM, CURTAIN WALL, BEARING SEAT DRG.No.: DD/D/CP/UVA/B/1265/8(11)



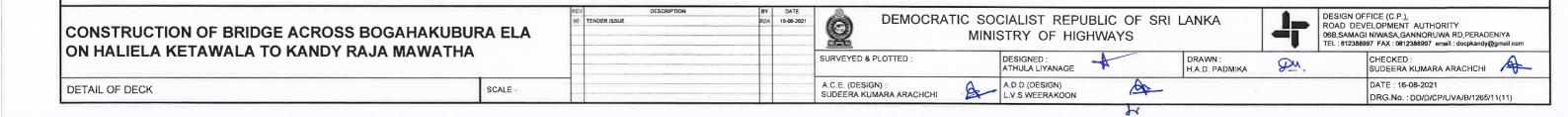




CROSS SECTION OF 9 500 LONG DECK



PLAN DETAILS OF RAIN WATER CATCH PIT SCALE 1:20





GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS



ROAD DEVELOPMENT AUTHORITY

ROAD – RAJAMAWATHA EXTENSION FROM KETAWALA TO MASPANNA ROAD, LOCATION BRIDGE AT CH 08+380 Km

DETAILED DESIGN DRAWINGS

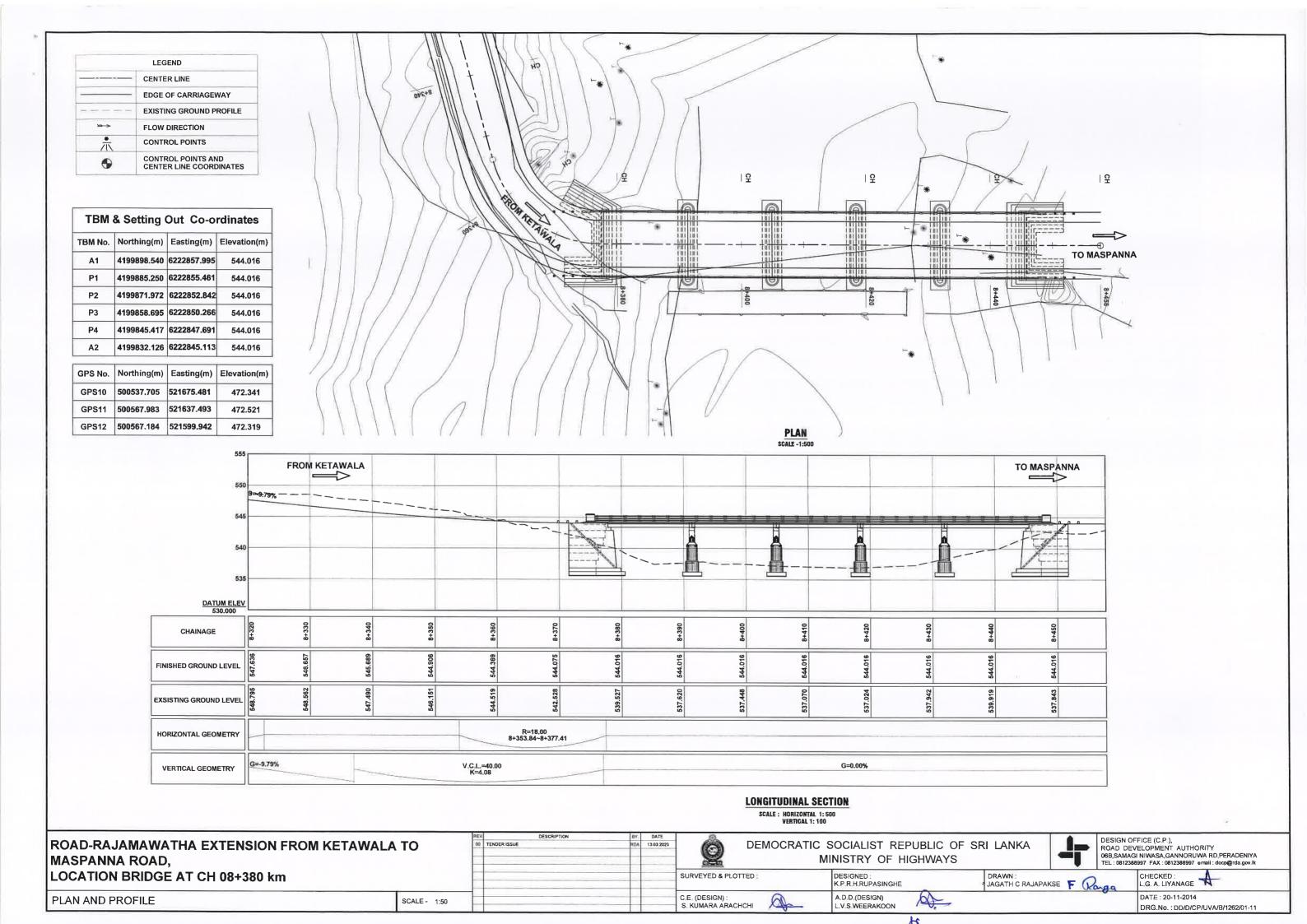
MARCH 2023

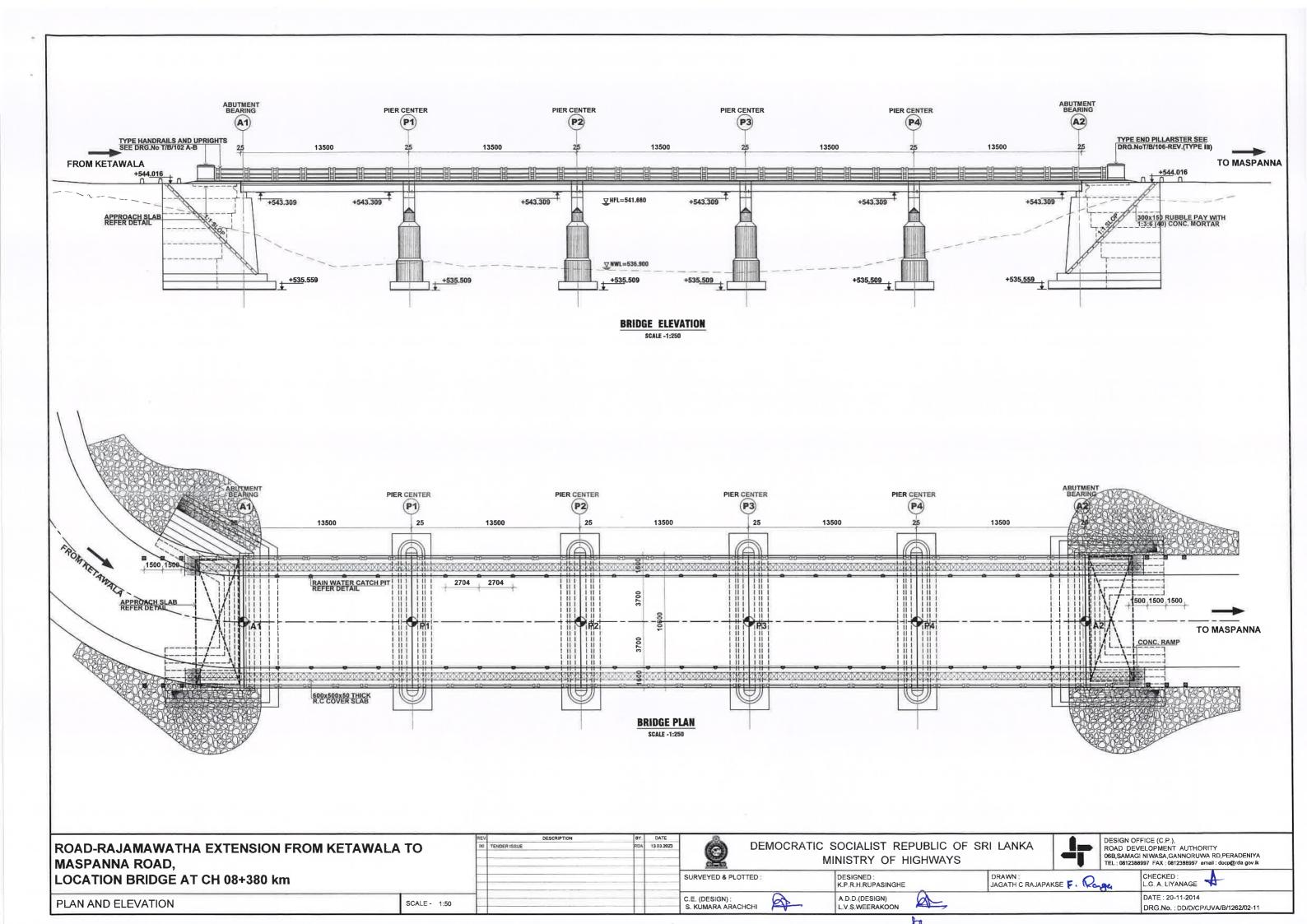
Design Office (Central Province)

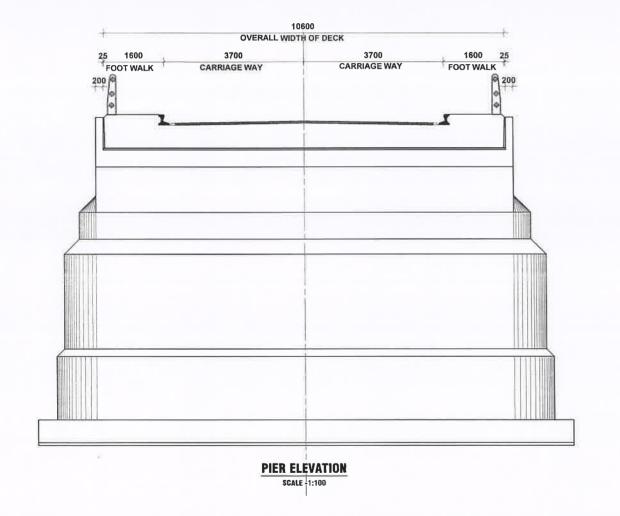
Road Development Authority

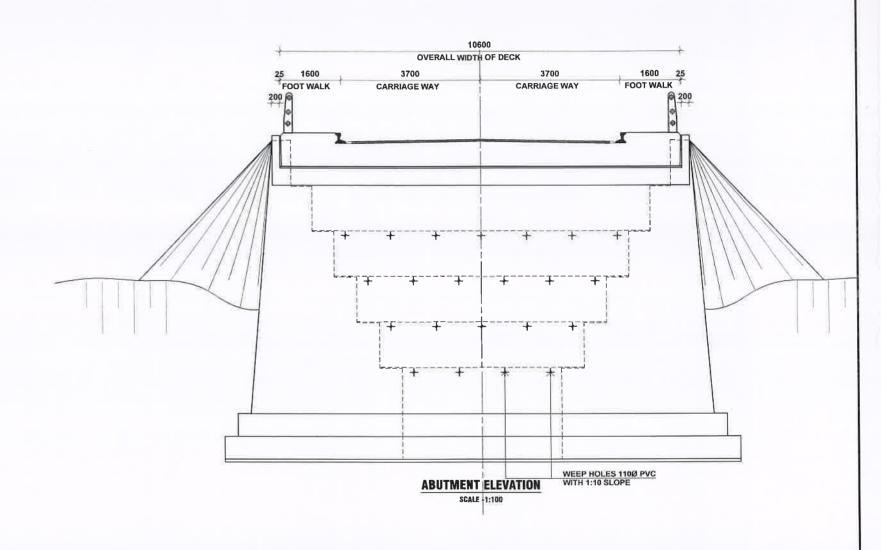
06B, Samagi Niwasa, Gannoruwa Road

Peradeniya.











ABUTMENT AND PIER ELEVATION

SCALE - 1:50	

00 TENDER ISSUE

BY DATE RDA 13.03.2023 C.E. (DESIGN) : S. KUMARA ARACHCHI

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 0812388997 FAX: 0812388997 email: docp@rda gov.ik

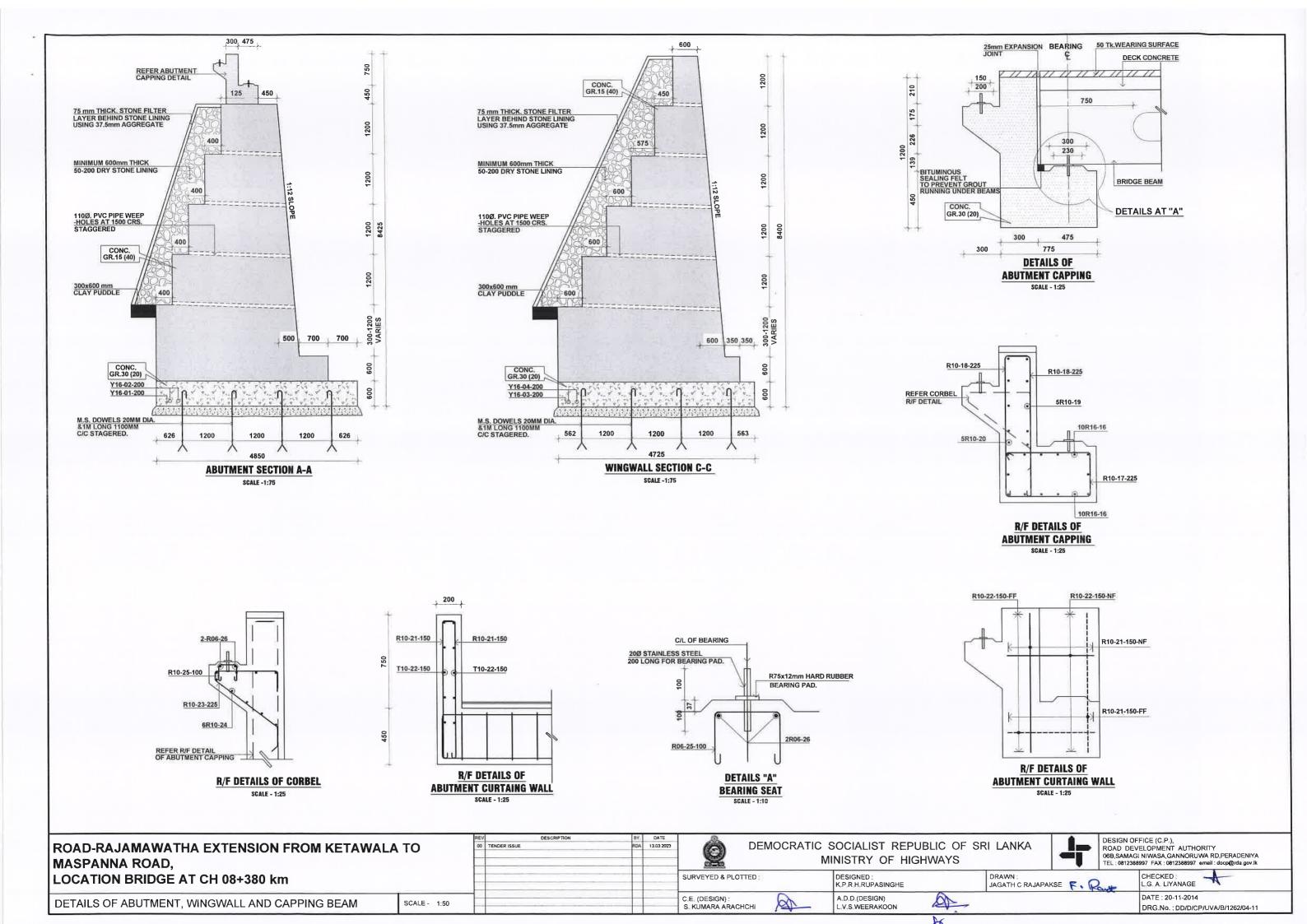
SURVEYED & PLOTTED

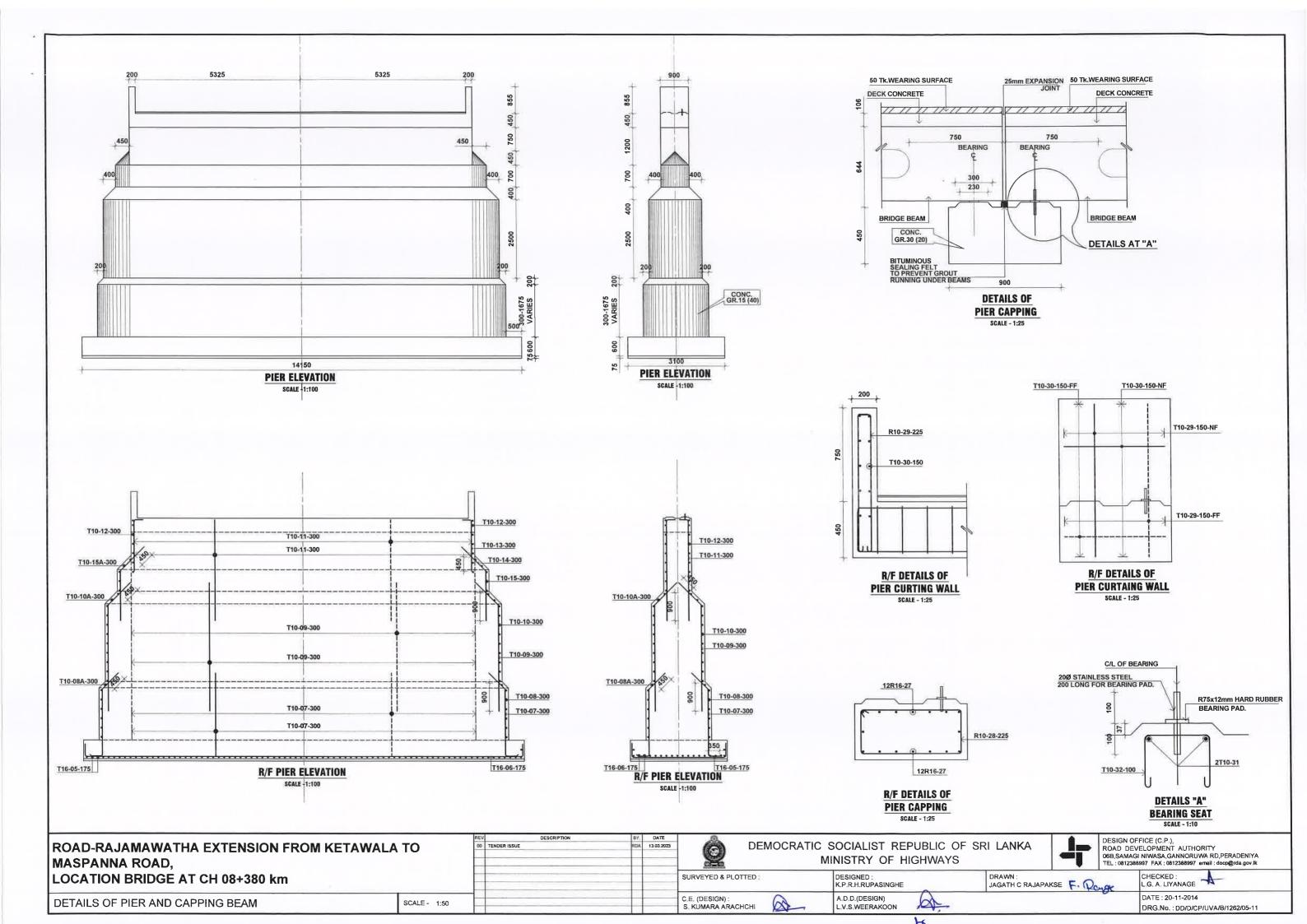
DESIGNED : K.P.R.H.RUPASINGHE A.D.D.(DESIGN) L.V.S.WEERAKOON

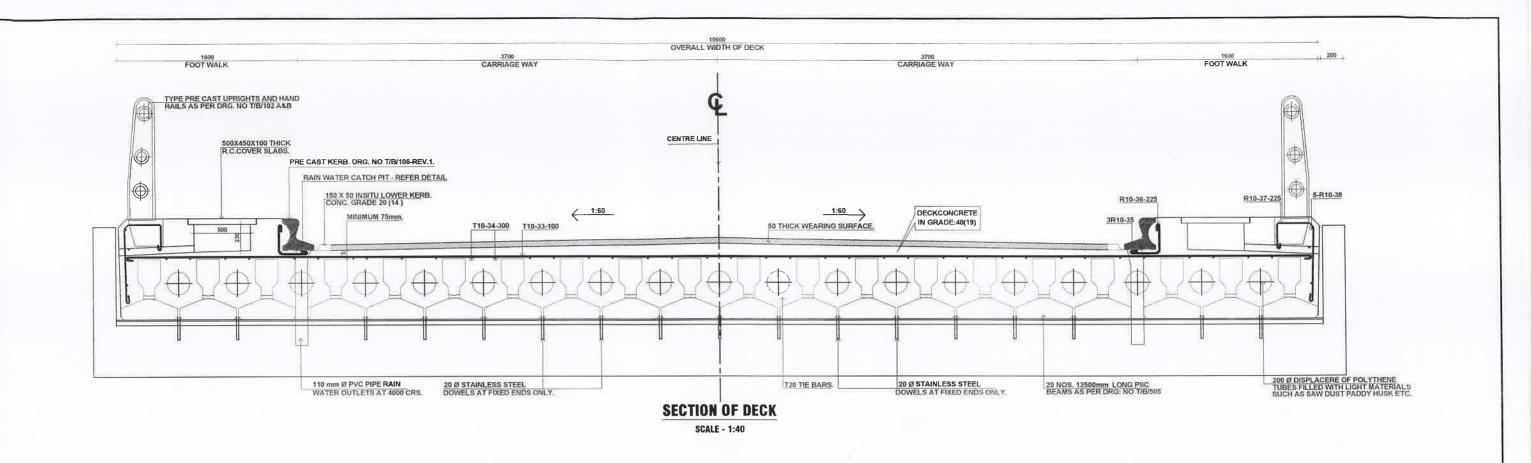
DRAWN: JAGATH C RAJAPAKSE F. Page

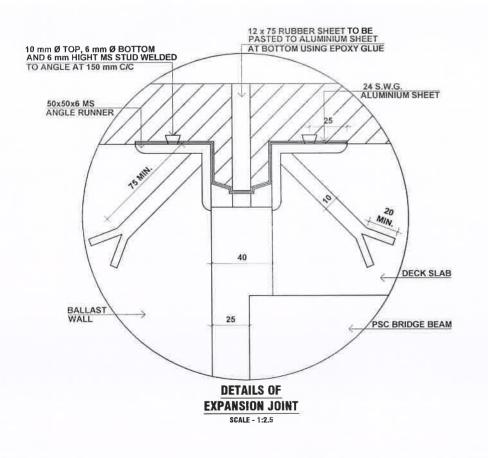
CHECKED : L.G. A. LIYANAGE

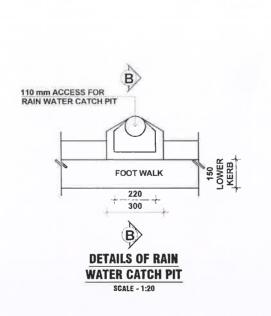
DATE: 20-11-2014 DRG.No.: DD/D/CP/UVA/B/1262/03-11

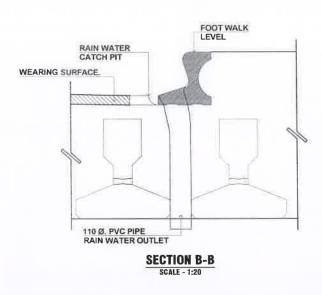












ROAD-RAJAMAWATHA EXTENSION FROM KETAWALA TO
MASPANNA ROAD,
LOCATION BRIDGE AT CH 08+380 km

DETAILS OF DECK

REV		DESCRIPTION	BY,	DATE
00	TENDER ISSUE		ROA	13.03 207
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-				_
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SCALE - 1:50

Ó
SURVEYED &

C.E. (DESIGN)

S. KUMARA ARACHCHI

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY

06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 0812388997 FAX: 0812388997 email: docp@rda.gov.lk

PLOTTED

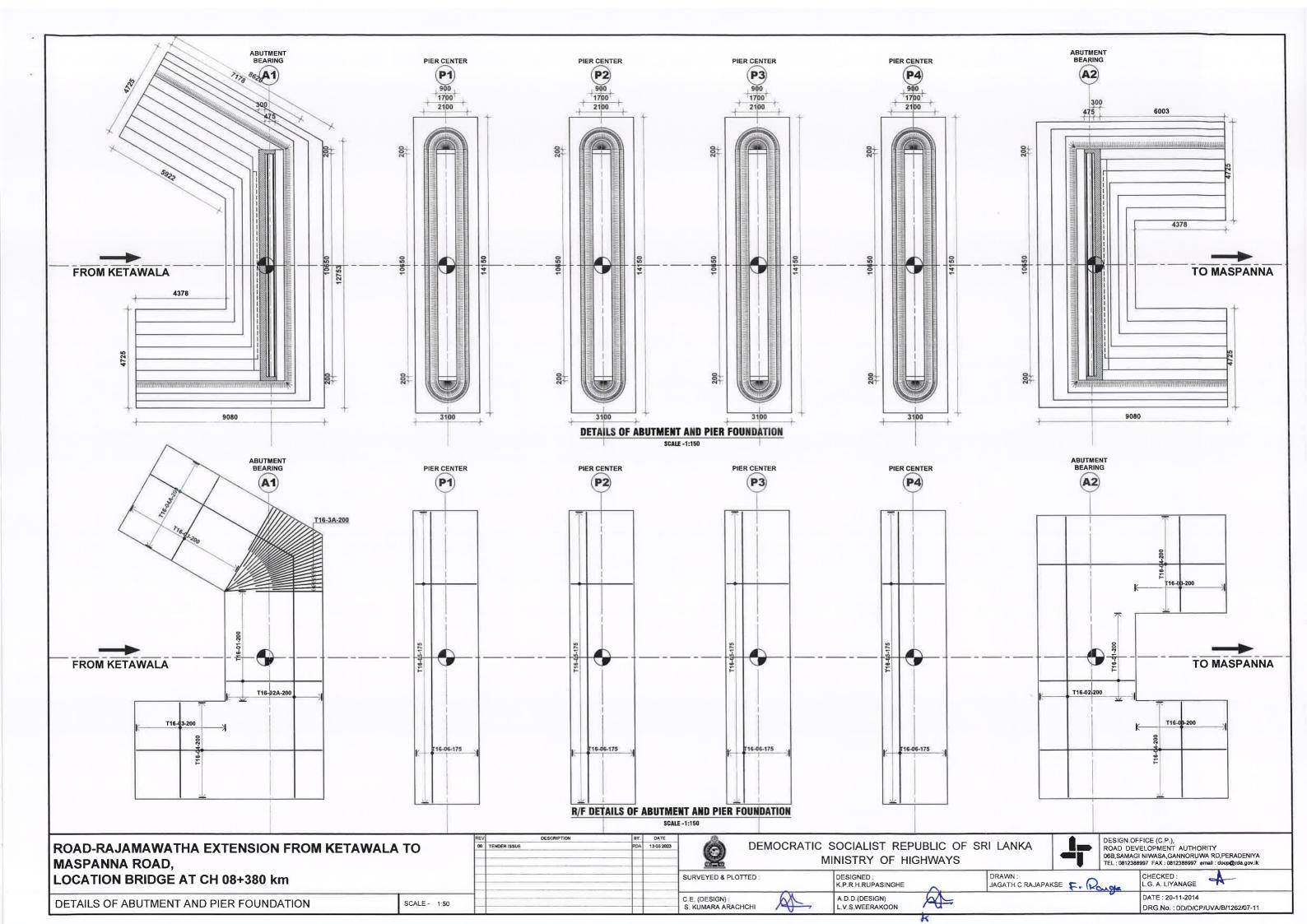
A.D.D.(DESIGN) L.V.S.WEERAKOON

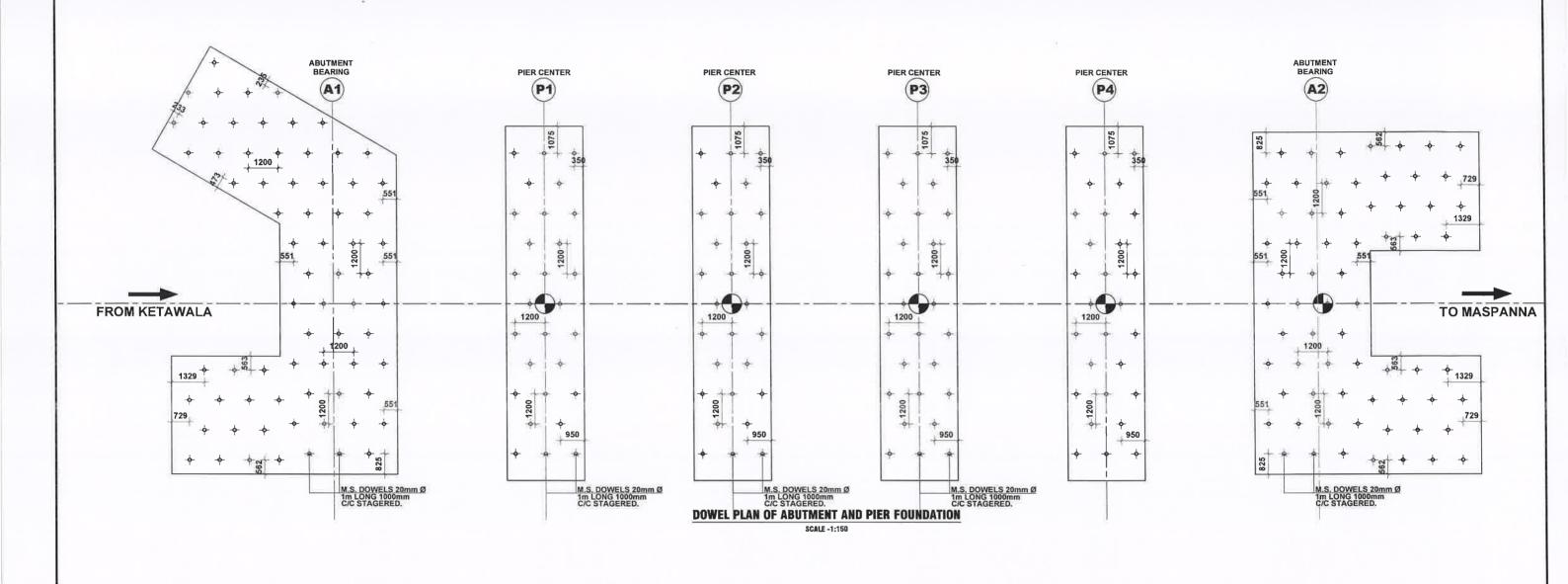
DESIGNED:

KPRHRUPASINGHE

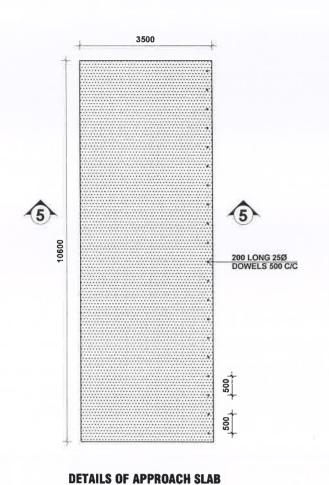
DRAWN: JAGATH C RAJAPAKSE G. A. LIYANAGE

DATE: 20-11-2014 DRG.No.: DD/D/CP/UVA/B/1262/06-11









SCALE - 1:100

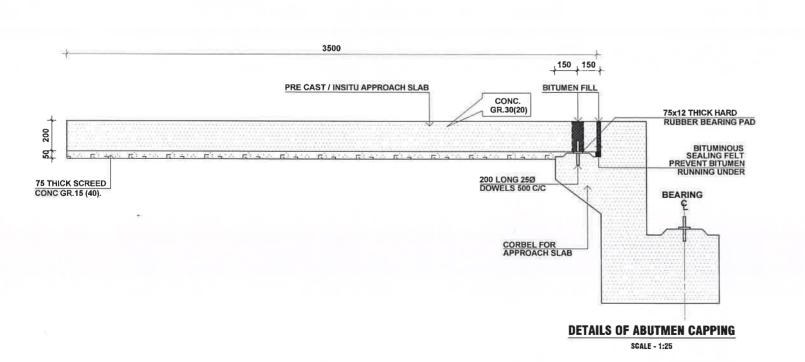
3500
T10-40-150-B
T10-39-150-T
T12-39-150-B

R/F DETAILS OF APPROACH SLAB

SCALE - 1:100

NOTE

- 1. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING.
- ALL WORKMANSHIP AND MATERIALS ARE TO BE ACCORDING WITH REQUIREMENTS OF THE SPECIFICATION AND BY LOWS OF THE AUTHORITY.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS
- 4. ALL BARS MARKED 'R' SHALL BE HOT ROLLED MILD STEEL PLAIN BARS.
- 5. ALL BARS MARKED 'T' SHALL BE TOR STEEL
- 6. CLEAR COVER TO REINFORCEMENT 40mm UNLESS OTHERWISE STATED.
- 7. CONCRETE GRADE 25(20)
- 8. SUITABLE TYPE OF APPROACH SLAB SHOULD BE SELECTED TO SUIT THE BACK FILLING WIDTH BEHIND THE ABUTMENT.
- FOR INSITU CONSTRUCTION USE CONTINUOS MESHES OF REINFORCEMENT FOR THE ENTIRE WIDTH OF CARRIAGEWAY.



39
SECTION 5-5
SCALE - 1:25

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS

SURVEYED & PLOTTED:

DESIGNED:
K.P.R.H.RUPASINGHE

JAGATH C RAJAPA

DRAWN:

JAGATH C RAJAPAKSE P. Park

LC

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 0812388997 FAX: 0812388997 email: docp@rda.gov.lk

CHECKED:
L.G. A. LIYANAGE

DATE : 20-11-2014 DRG.No. : DD/D/CP/UVA/B/1262/09-11

APPROACH SLAB

LOCATION BRIDGE AT CH 08+380 km

MASPANNA ROAD,

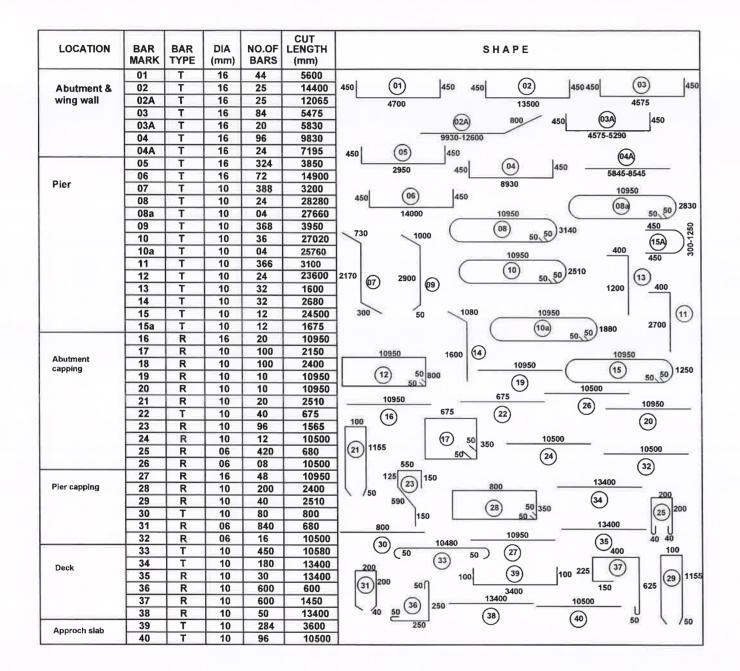
ROAD-RAJAMAWATHA EXTENSION FROM KETAWALA TO

SCALE - 1:50

C.E. (DESIGN): S. KUMARA ARACHCHI A.D.D.(E L.V.S.WI

A.D.D.(DESIGN) L.V.S.WEERAKOON

KOON



CONCRETE

Use following concrete grades for structures or part of a structure as indicated below in accordance with specifications.

ABUTMENT & wingwall - KETAWALA END

Screed Conc. GR. 30 (20) b. Foundation = GR. 15 (40) C. Stem Capping = GR. 30 (20)

PIER

= GR. 15 (40) Screed Conc. Foundation = GR. 30 (20) b. = GR. 15 (40) Stem = GR. 30 (20) d. Capping

ABUTMENT & Wingwall - MASPANNA END

GR. 15 (40) GR. 30 (20) Foundation b. GR. 15 (40) Stem d. Capping GR. 30 (20)

REINFORCEMENT

- All bar marked "Y" shall be high yield deformed bars of yield strength not less than 460 N/mm² and all marked "R" shall not be rolled mild steel plain bars of yield strength not less than 250 N/mm2
- Bars of cut length larger than the supplied length to be lapped with length of 50 Ø, where Ø is the diameter and lapping should be staggered with length of 50 Ø, where Ø is the
- Reinforcement bars shall be bent accordance with
- Clear concrete cover for reinforcement

Capping beam Abutment foundation - 75 mm

SPECIAL NOTES

All the constructions shall be in accordance with

- Standards specification for construction & maintenance of Road & Bridges. Second Edition June 2009 ICTAD
- Specification for Building Works (Volume I) ICTAD
- Specification for Building Works (Volume II) ICTAD

ROAD-RAJAMAWATHA EXTENSION FROM KETAWALA TO MASPANNA ROAD,

LOCATION BRIDGE AT CH 08+380 km

DETAILS OF BAR SCHEDULE SCALE - 1:50 00 TENDER ISSUE RDA 13 03.2023 C.E. (DESIGN) S. KUMARA ARACHCHI



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF HIGHWAYS



DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA TEL: 0812388997 FAX: 0812388997 ermail: docp@rda.gov.lk

SURVEYED & PLOTTED:

A.D.D.(DESIGN) L.V.S.WEERAKOON

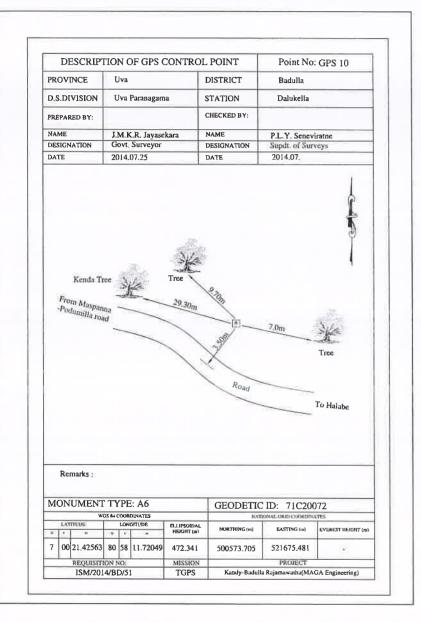
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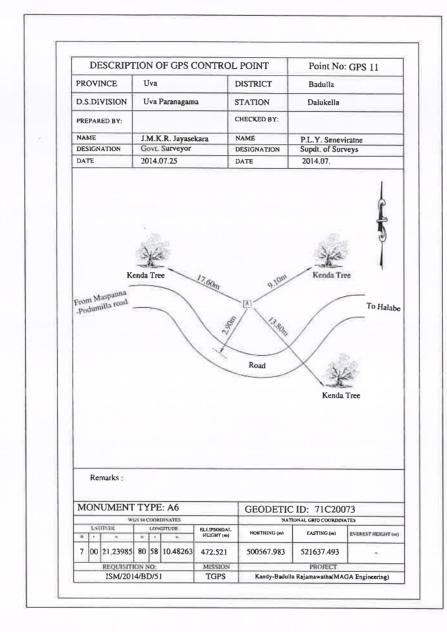
JAGATH C RAJAPAKSE F. Posse

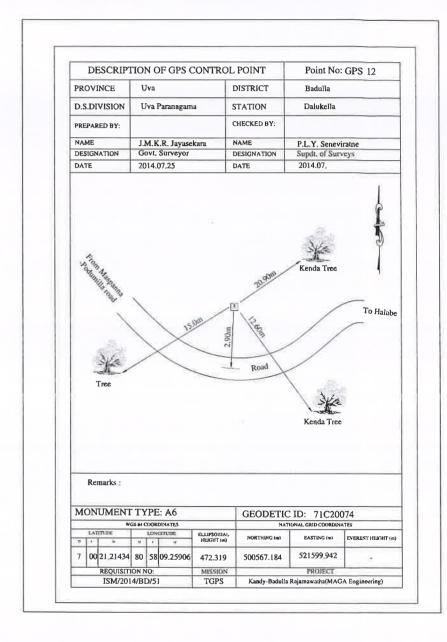
DRAWN

CHECKED L.G. A. LIYANAGE

DATE: 20-11-2014 DRG.No.: : DD/D/CP/UVA/B/1262/10-11







ROAD-RAJAMAWATHA EXTENSION FROM KETAWALA TO MASPANNA ROAD, LOCATION BRIDGE AT CH 08+380 km

GPS CONTROL POINT

SCALE - 1:50

DESCRIPTION BY DATE
TENDER ISSUE RDA 13.03.2023
St



S, KUMARA ARACHCHI

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS



DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B,SAMAGI NIWASA,GANNORUWA RD,PERADENIYA
TEL: 0812388997 FAX: 0812388997 email: docp@rda.gov.lk

SURVEYED & PLOTTED:

C.E. (DESIGN):

DESIGNED:
K.P.R.H.RUPASINGHE

A.D.D.(DESIGN)
L.V.S.WEERAKOON

DRAWN:
JAGATH C RAJAPAKSE

CHECKED: L.G. A. LIYANA

CHECKED : L.G. A. LIYANAGE

DATE: 20-11-2014 DRG.No.: DD/D/CP/UVA/B/1262/11-11



GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS AND TRANSPORT



ROAD DEVELOPMENT AUTHORITY

CONSTRUCTION OF RAJA MAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA (CH 07+560- CH 09+300)

DETAILED ENGINEERING DESIGNS
GEOMETRIC DESIGN DRAWINGS

MARCH 2023

Design Office (Central Province)

Road Development Authority

6B, Gannoruwa,

Peradeniya

CONTENTS

: GEOMETRIC DESIGN DRAWINGS

- 1.1 General Details
- 1.2 Plan & Profile
- 1.3 Typical road cross sections
- 1.4 Pavement design thicknesses
- 1.5 Structures

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (CH 7+560- CH9+300km)

: GEOMETRIC DESIGN DRAWINGS,

1.1 - GENERAL DETAILS

LEGEND



Utility etc.	
ſ	Lamp Post
	Electric Post
	Electric Post (High Tension)
Ī	Transmission Tower
TF	Transformer (Electrical)
MHE	Man hole (Electrical)
± T	Telephone Post
СВ	Telephone Booth
MHT	Man hole (Telecom)
TCB	Telephone cable box
• PB	Post Box
WPL	Water Pipe line
ECB	Electric cable box
WTH	Water tank (Over head)
WTP	Water Tap
MHW	Man hole (Water)
MH	Man hole
Tuw	Tube Well
•	Fire Hydrent

CP	Concrete post	
MHS	Manhole Sewer	
MHD	Manhole Dialog	
GL	Gully	
V	Valve	
ECB	Electric Cable Box	
TSP	Traffic Signal Post	
FB	Flower Bed	
WM	Water Main Marker	
GS	Gurd stone	
M	Memorial	
BL	Building Lavatory	
+	Exiting Sluice Valve	
*	Sluice Valve/Section Valve	
	Road	
	Proposed 225mm dia.pipe line	
\otimes	Flow Meters	
	Existing Pipe line	

Boundaries, Fences etc.	
U	Undefined
IF	Iron Fence
WFC	Wire on concrete post
WFI	Wire on iron post
CFC	Chain link fence concrete post
CFI	Chain link fence iron post
W	Boundary Wall
WF	Wire fence
ТВ	Bank Top
BB	Bank Bottom
ABF	Asbastos Fence
WMF	Wire Mesh Fence
ZF	Zinc Fence

DF	Dry Fence	
GR	Guard rail	

Buildings, Houses, shops etc.	
P	Permanent Building
Ту	Temporary Building
TRS	Tiled Roofed Shop
TRG	Tiled Roofed Garage
ARH	Asbestos Roofed House
ARS	Asbestos Roofed Shop
TinRH	Tin Roofed House
TinRS	Tin Roofed Shop
TH	Temporary Hut
C/rbldg	Concrete Roofed Building
BS	Bus Shelter
BUC	Building Under Construction
. G .	Gate

Vertical Geometry		
G	Gradient	
△ IP	Point of intersection of gradient	
V.C.L.	Vertical Curve length	
K	Curve coefficient	
PT	Point	
STA:	Station	
ELEV:	Elevation	
BVCS:	Vertical Tangent-Curve Intersect Station	
BVCE:	Vertical Tangent-Curve Intersect Elevation	
EVCS:	Vertical Curve-Tangent Intersect Station	
EVCE:	Vertical Curve-Tangent Intersect Elevation	
VCCS:	Vertical Compound Curve Intersect Station	
VCCE:	Vertical Compound Curve Intersect Elevation	

Proposed ground features		
	Center Line	
	Edge of carriageway	
	Edge of shoulder	
	Acquisition boundary	
	Finished ground profile	
	Existing ground profile	
	Shoulder edge Profile	
	Drain invert Profile	
\Longrightarrow	Flow direction	
[4] [4] [4]	Embankment	
ABM/CP/GPS(No)	Bench Mark /Control Point/GPS Point (No)	
TBM(No)	Temporary bench mark (No)	
& A	Traverse line	

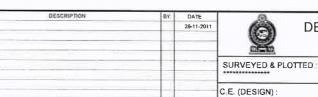
Design notations and abbreviations Horizontal Geometry		
CH	CHAINAGE	
PC	Tangent - curve intersect	
PCC	Curve - curve intersect	
PT	Curve - tangent intersect	
R	Radius of curvature	
Off:	Offfset	
l&r	Difference in levels between left or right edge of carriageway & centerline	

DRAIN		Ti l
(Exisiting Drain	
CDn	Covered Drain	
SDn	Shoe Drain	
MDn	Masonry Drain	
EDn	Earth Drain	
Udn	Under Ground Drain	

CONSTRUCTION OF RAJA MAWATHA EXTENSION ROAD FROM
KETAWALA TO MASPANNA.
(FROM CH7+560 TO 9+300 km)

LEGEND

SCALE - N.T.S





DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF HIGHWAYS

DESIGNED

DRAWN:

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
6B,GANNORUWA, PERADENIYA,
TEL: 0812388997 FAX: 0812388997 email: docpkandy@gmail.com

D.D.(DESIGN) L.V.S.WEERAKOON K AS B KUMARA ARACHCHI



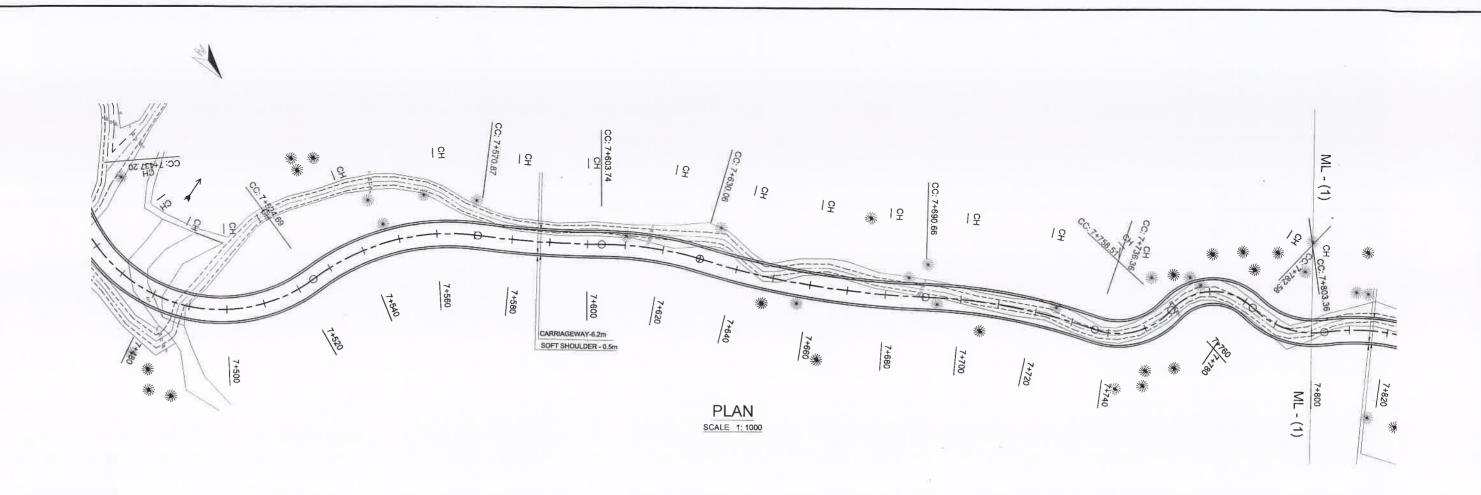
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DATE: 23-03-2023 DRG.No.: DD/D/UVA/H/1267/1.1/01(01)

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (CH 7+560- CH9+300km)

: GEOMETRIC DESIGN DRAWINGS,

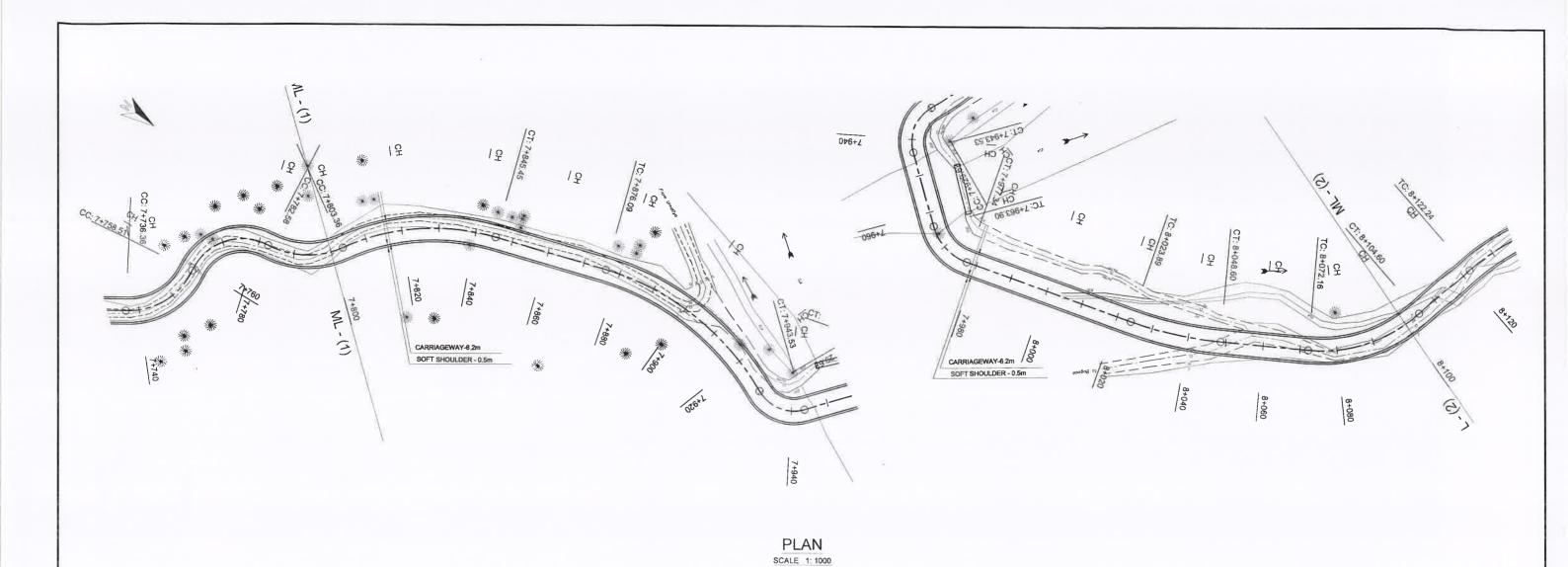
1.2 - PLAN, SETTING OUT DATA & PROFILE



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Northing(m)	499720.745	99723.4	99725.53	9727.10	499728,079	499728,453	499728.792	499729.545	499730.707	499732.270	499734.222	99736.55	499739.239	499742.270	9745.62	99749.14	752.6	9755.99	99759.30	99762.5	499765.712	99.77.03	99775.4	99779,10	99782.9	499786,912	499790.956	499794.936	(D)	99802.69	99806.47	9810.1		99820.84	499824.245	499827.567	499830.807	9834.04	99837.40	99840.88	9844.48	99848.2	99852.03	499855.953	8000	0.89868		9873.	9873.9	499873.466	499873.944	499876,017	499879.457		99888.77	499893.461
Easting(m)	523497.459	523493.232	23488.71	23483.96	523479.065	523474.082	523469.095	523464.153	523459.292	523454.544	523449.942	3445.51	523441,305	523437,330	23433.6	23430.0	23426.4	23422.79	23419.0	523415.238	523411.366	3403.62	233	23396.55	523393.327	523390.315	523387.375	523384.349	23381.2	23378.	23374.7	71.40	523367.97.0 523364.456	23360.86	523357.201	523353,464	523349,657	23345.8	23342.14	23	2333	23331.74	523328.518	523325.425	3 6	23316.6	523312.738	523308,165	523303.233	523298,260	523293,306	523288.782	523285,185	23282.9	23281.8	523280.180

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA, TEL: 0812388997 FAX: 0812388997 email: CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA KETAWALA TO MASPENNA MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km DESIGNED : K A S B KUMARA ARACHCHI SURVEYED & PLOTTED DRAWN : B.K. RANASINGHE CHECKED: R:I:P_SOMARATHNA C.E. (DESIGN): K.A.S.B. KUMARA ARACHCHI D D(DESIGN) L V S WEERAKOON PLAN AND SETTING OUT DATA - CH(7+500-7+800)Km DATE: 2023-03-23 SCALE -1:1000 DRG.No.: DD/D/UVA/H/1267/1 2/1/01(06)

26



Station	7+800.00	05.	9.	÷	응티	7+825.00	න c	ه ا ن	6 f	7+845.00	00	55.0	7+860.00		7+875.00	7+880,00	7+885.00	7+890.00	95,0	7+900.00	7+905.00	: 10	8 8	7+925.00	7+930.00	7+935,00	40.0	+945	+950.0	0 0	65.0	7+970.00	7+975.00	0.	7+985.00	φ +	7+995.00	Ŧ :	0.5.0	<u>و</u> ا	8+015.00	1025	+030.0	8+035.00	+040	8+045.00	8+050.00	8+055.00	8+060.00	+065	8+070.00	8+075.00	+080	+085.0	8+090.00
Northing(m)	499901.201	99903.9	99906.7	6.60666	99913.4	99917.	99921.	499925.429	99929.84	9934.	99939,22	99943.	499948.662	6 6	499962.813	499967.564	499972,411	499977.334	99982.3	666	499992.297	1 8	00000	00011	500016.374	500021.269	500025.965	00029.4	0032.6	500038.841	0041.92	500043.928	500044.219	500042.992	500041.576	00040,16	00038.74	00037	035,91	00034.4	500033.080	0000	00028.6	500026,831	00024	500022.500	500020.010	500017.464	500014.919	500012.373	500009.828	500007.196	500004.102	500000.543	499996.575
Easting(m)	523273.973	23269.	265.6	23261.80	23258.2	254.90	9.1.9	523249.304	23247.0	245.	243.4	23241.6	523240,170 523238 544	23236.8	523235,193	523233.638	523232.418		02	523230,868	523231.003	5 2	:	523235,368	523237,290	523238.042	4.	23232,9	3229.06	73221.	3217.29	523212.749	7.7	523202.944	523198.149	23193.3	23188.5	23183.7	3178.9	231/4.	523169.377	j g	3155.04	523150.392	145	523141.384	523137,048	523132.744	523128.441	523124.137	523119.834	523115.584	523111.660	108.15	523105.11 <i>f</i> 523102.599

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPENNA SECTION FROM CH (7+500 - 9+300)Km

PLAN AND SETTING OUT DATA - CH(7+800-8+100)Km

SCALE -1:1000



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS & TRANSPORT



DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA. TEL: 0812368997 FAX: 0812388997 email:

SURVEYED & PLOTTED

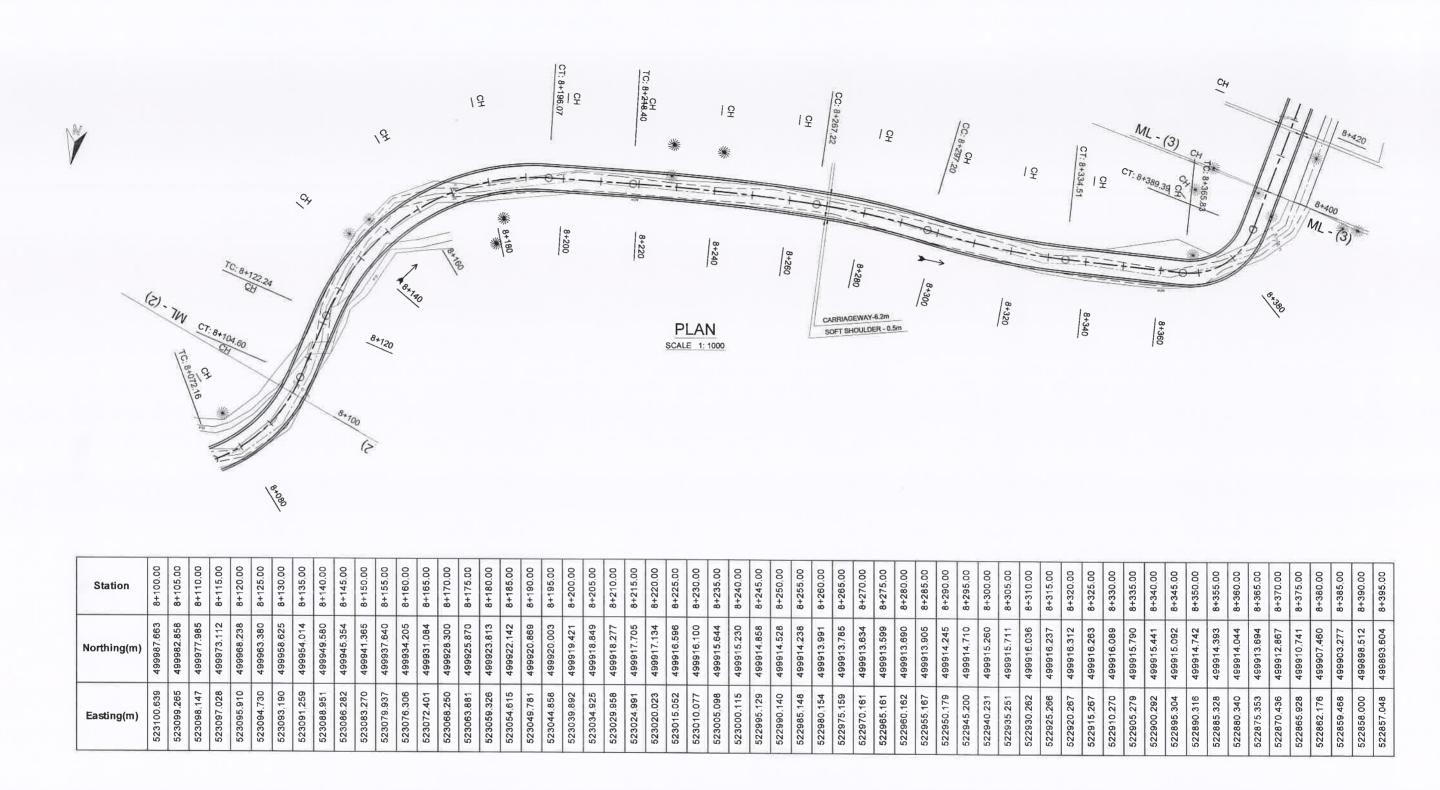
DESIGNED:
K.A.S.B. KUMARA ARACHCHI

DRAWN: B.K. RANASINGHE

CHECKED: R.I.P. SOMARATHNA

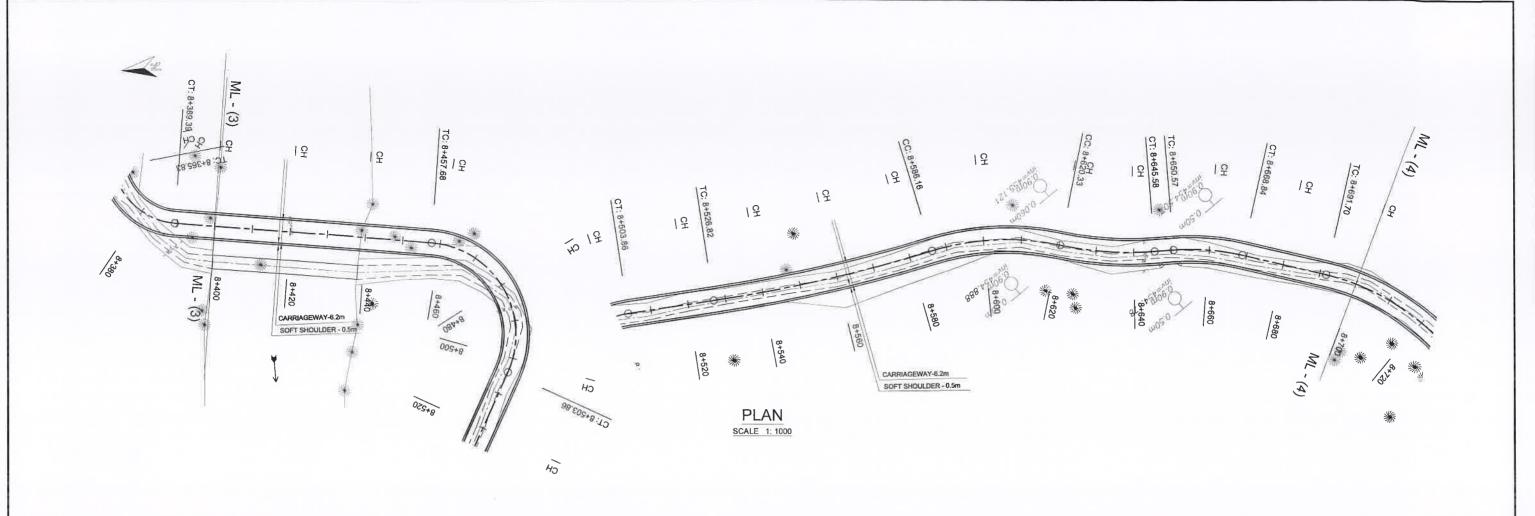
DATE: 2023-03-23 DRG.No.: DD/D/UVA/H/1267/1 2/1/02(05)

C.E. (DESIGN): K.A.S.B. KUMARA ARACHCHI D.D(DESIGN) L.V.S.WEERAKOON



DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA **KETAWALA TO MASPENNA** 6B,GANNORUWA, PERADENIYA TEL: 0812388997 FAX: 0812388997 e MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km DESIGNED : K.A.S.B. KUMARA ARACHCHI SURVEYED & PLOTTED DRAWN: B.K. RANASINGHE CHECKED: R.J.P. SOMARATHNA D.D(DESIGN) L.V.S.WEERAKOON C.E. (DESIGN) PLAN AND SETTING OUT DATA - CH(8+100-8+400)Km SCALE -1:1000 DATE: 2023-03-23 K A S.B. KUMARA ARACHCHI DRG.No.: DD/D/UVA/H/1267/1 2/1/03(06)

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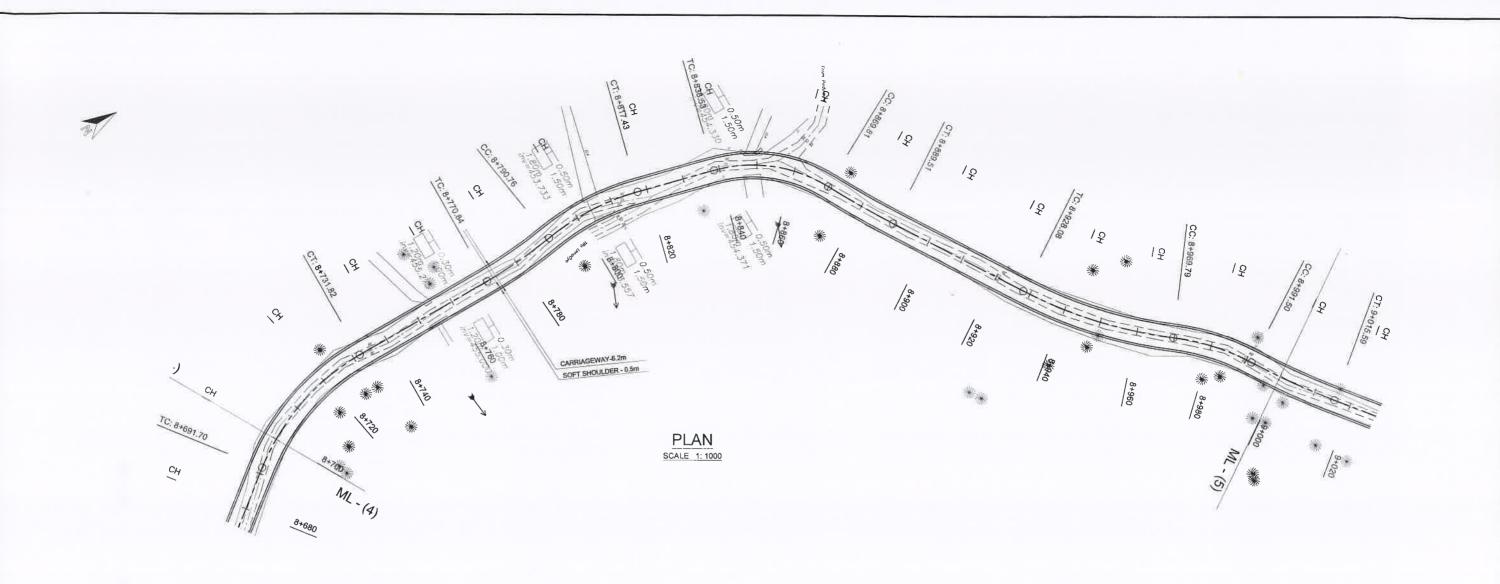


Station	4400.	l ro.	8+410.00	8+415.00	+420.0	+425.0	+430.0	8+435.00	8+440.00	8+445.00	8+450.00	8+455.00	8+460.00	8+465.00	8+470.00	8+475.00	8+480.00	8+485.00	+490.	+495.	+500.	8+505.00	10 10	10 00	8+525.00	8+530.00		8+540.00	8+545.00	8+550.00	8+555.00	+560.0	8+565.00	+575.0	+580.0	8+585.00	8+590.00	+595.	8+600.00	8+605,00	+610.0	+615.0	0.	00000000	+635.0	+640.0	+645.0	8+650.00	8+655.00	8+660.00	8+665,00	8+670.00	+675.0	8+680.00	+685	8+695.00
Northing(m)	99888.6	499883.787	499878.878	499873,970	499869.061	499864,153	99859.2	499854,336	499849,427	499844,519	499839,610	469834.702	459829.818		499821.089	499817.644	99815,02	499813.332	9	99813.00	99814.38	499816.704	87.8	99621.88	99024.4.	99829.6	99832.1	499834.653	499837.074	499839.441	499841.752	99844.0	499846.207	99850	99852.4	499854.439	499856,470	99858.8	499861,488	499864,460	99867.7	499871.247	99875.0	499878.862	99662.5	99889.22	99892.25	499895.157	499898.186	499901.533	499905.177	499909.087	499913.074	499917.060	6 6	499929.073
Easting(m)	22856.	2855.14	522854.192	522853.239	52.2	22851.33	22850.38	522849.431	522848,479	522847.527	522846.575	522845.622	522844.561	22842.6	522839,832	522836.221		22827.2	22822,33	22817.35	2.5	2808	22803.8	7 99.	0.000.00	22786.74	522782.436	22778.0	522773.717	522769.313	522764.879	22760.4	522755.926	22746.86	742.29	522737.701	522733.133	522728.721	522724,494	522720.474	22716.6	522713.143	709.87	522/05/554	22,03,23	22695,84	: ĕ	22687.79		522680.106	2676,6	522673.570	522670.552	522667.534	664.51	522658.553

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM
KETAWALA TO MASPENNA
SECTION FROM CH (7+500 - 9+300)Km

PLAN AND SETTING OUT DATA - CH(8+400-8+700)Km

For



Station	8+700.00	05	8+710.00	+715.	8+720.00	+725.0	17300	0.00	1,30.	0.047	+745.0	+750.0	-	8+760.00	8+765.00	8+770.00	8+775.00	8+780.00	8+785.00	8+790.00	8+795.00	8+800.00	8+805.00	8+810.00	8+815.00	8+820,00	8+825.00	8+830.00	8+835.00	8+840.00	8+845.00	8+850.00	+855.0		1600.0	0.0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2.00	+885.0	1890.0	5.0	8+900.00	8+905.00	8+910.00	8+915,00	8+920.00	8+925.00	8+930.00	8+935.00	8+940.00	8+945.00	8+950.00	8+955.00	8+960.00	8+965.00	8+970.00	8+975.00	8+980 00	+985.0	8+990.00	+995.	00.000+6
Northing(m)	499933.331	99937,79	499942,425	499947,198	499952.078	99957	0008200	99902.02	20.70888	9972.0	99977.02	99982.02	499987,019	499992.017	26666	500002.015	500007.015	500012.012	500016,997	500021.963	500026.928	500031,923	500036.918	500041,885	500046.793	500051,628	500056.451	500061.274	500066.098	500070.913	500075.569	500079.948	500083.972	N (200090,080	5000083,207	500008 075	500100 609	00103.22	500105.884	500108,538	500111.193	500113.847	500116.502	500119.156	500121,811	500124.478	500127.287	500130.265	500133.408	500136.711	500140,167	500143,770	500147.515	500151 394	00155.18	00158.7	00161.90	500164.775	00167.41	500170.132
Easting(m)	522655.935	22653.68	522651,804	522650.320	522649.239	22648 56	206.4B 34	0.04022	22048.3	22648.4	22648.5	522648.697	522648.800	522648.903	522649.007	522649.110	522649.142	522648,970	522648.592	522648.009	522647.433	522647,233	522647.418	522647.985	522648,933	522650,207	522651.524	522652.841	522654.158	655.50	522657.315		22662.68	22666.14	20,0742	7 8786	22683 10	22687 41	22691.66		522700.143	522704.380	522708.617	522712.854	522717.091	522721.328	522725.557	522729.693	522733.709	522737,597	522741,351	522744.964	522748,430	522751.743	522754.897	522758.150	522761.708	522765,545	522769.636	773.88	522778.079

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPENNA SECTION FROM CH (7+500 - 9+300)Km

PLAN AND SETTING OUT DATA - CH(8+700-9+000)Km

SCALE -1:1000



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS & TRANSPORT

de

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA. TEL: 0812388997 FAX: 0812388997 email:

SURVEYED & PLOTTED :

DESIGNED:
K A S B KUMARA ARACHCHI

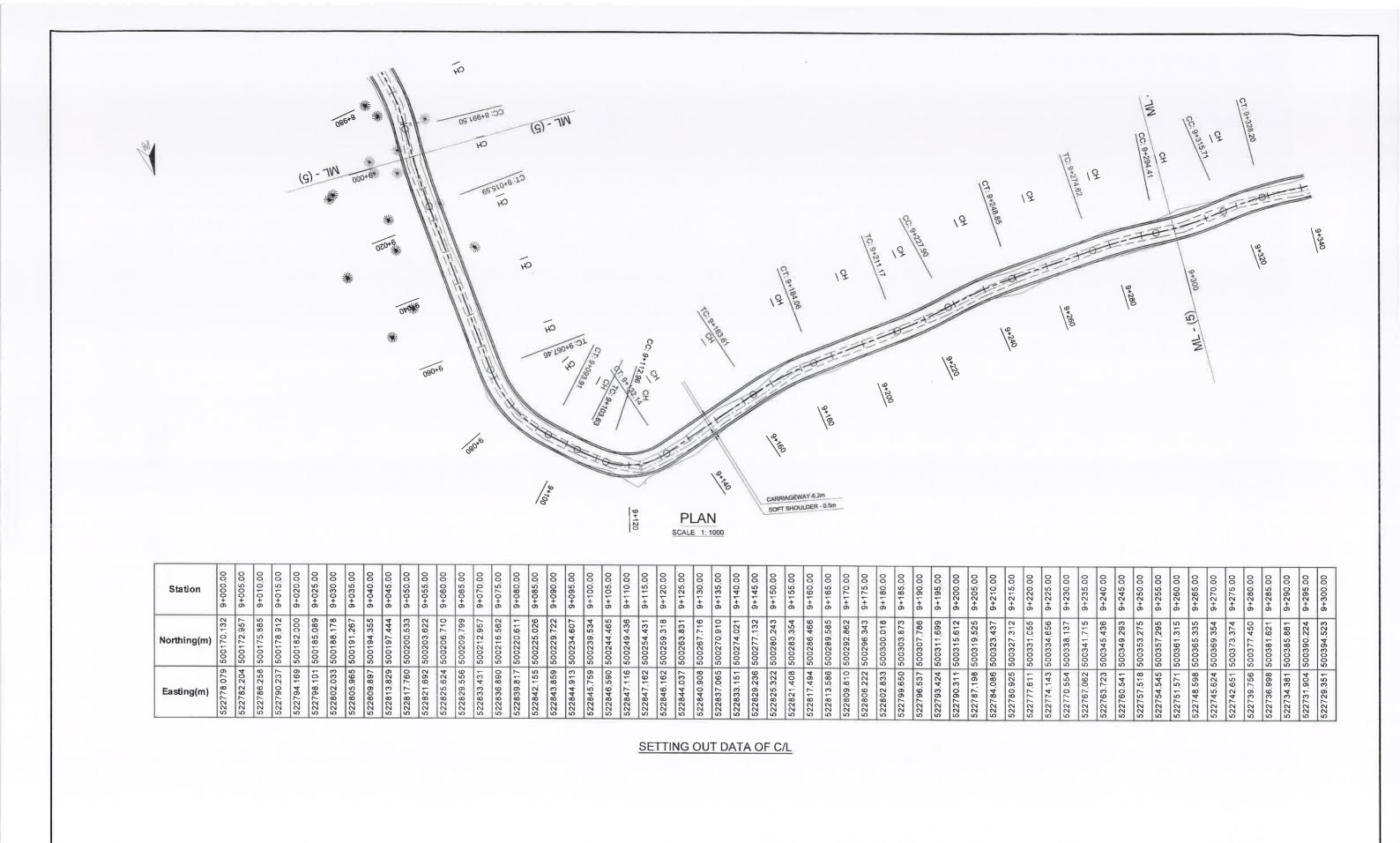
DRAWN: B.K. RANASINGHE

CHECKED: R.L.P. SOMARATHNA

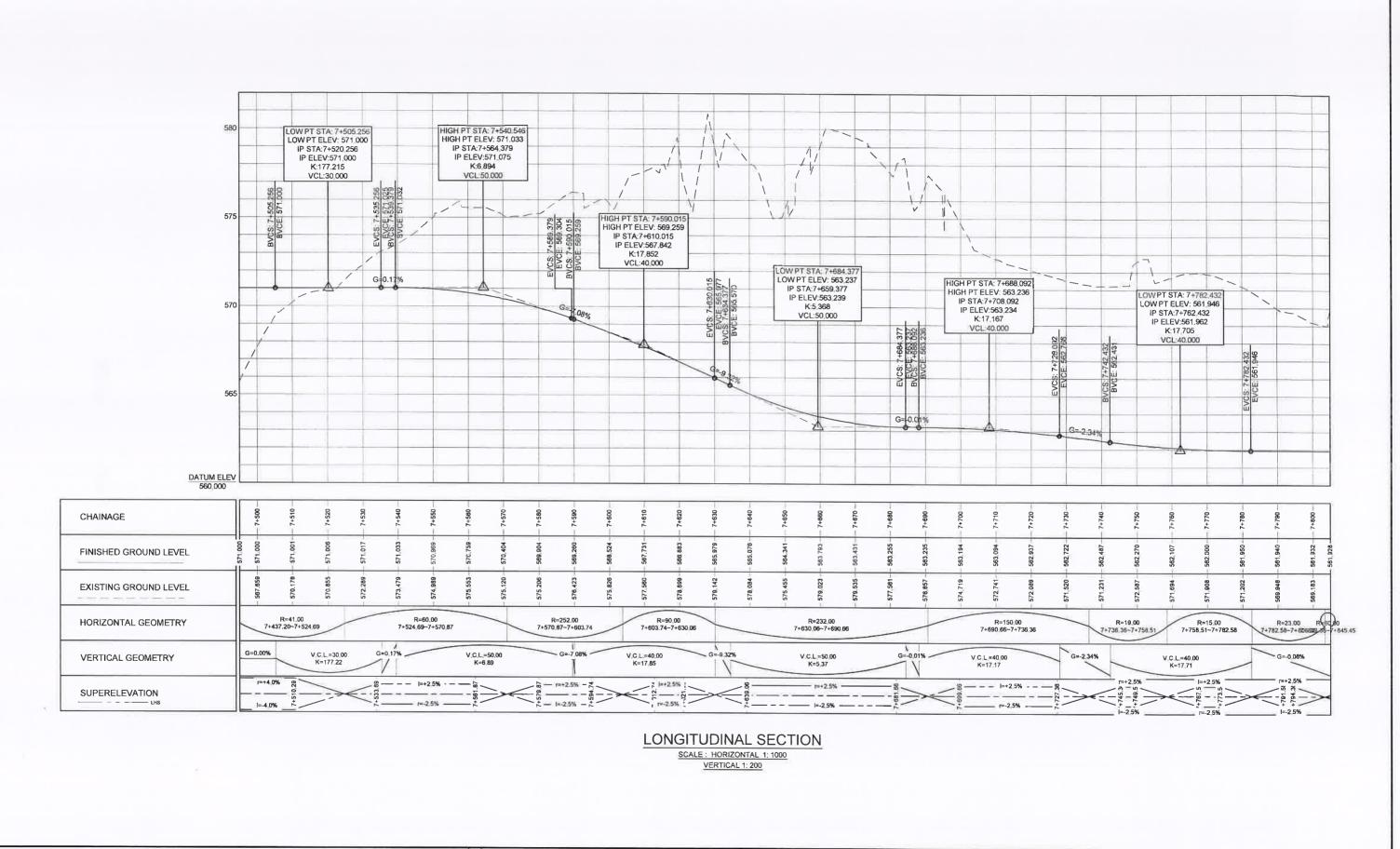
DATE: 2023-03-23

C.E. (DESIGN): K.A.S.B. KUMARA ARACHCHI D D(DESIGN)
L.V.S WEERAKOON

DRG.No.: DD/D/UVA/H/1267/1.2/1/05(06)

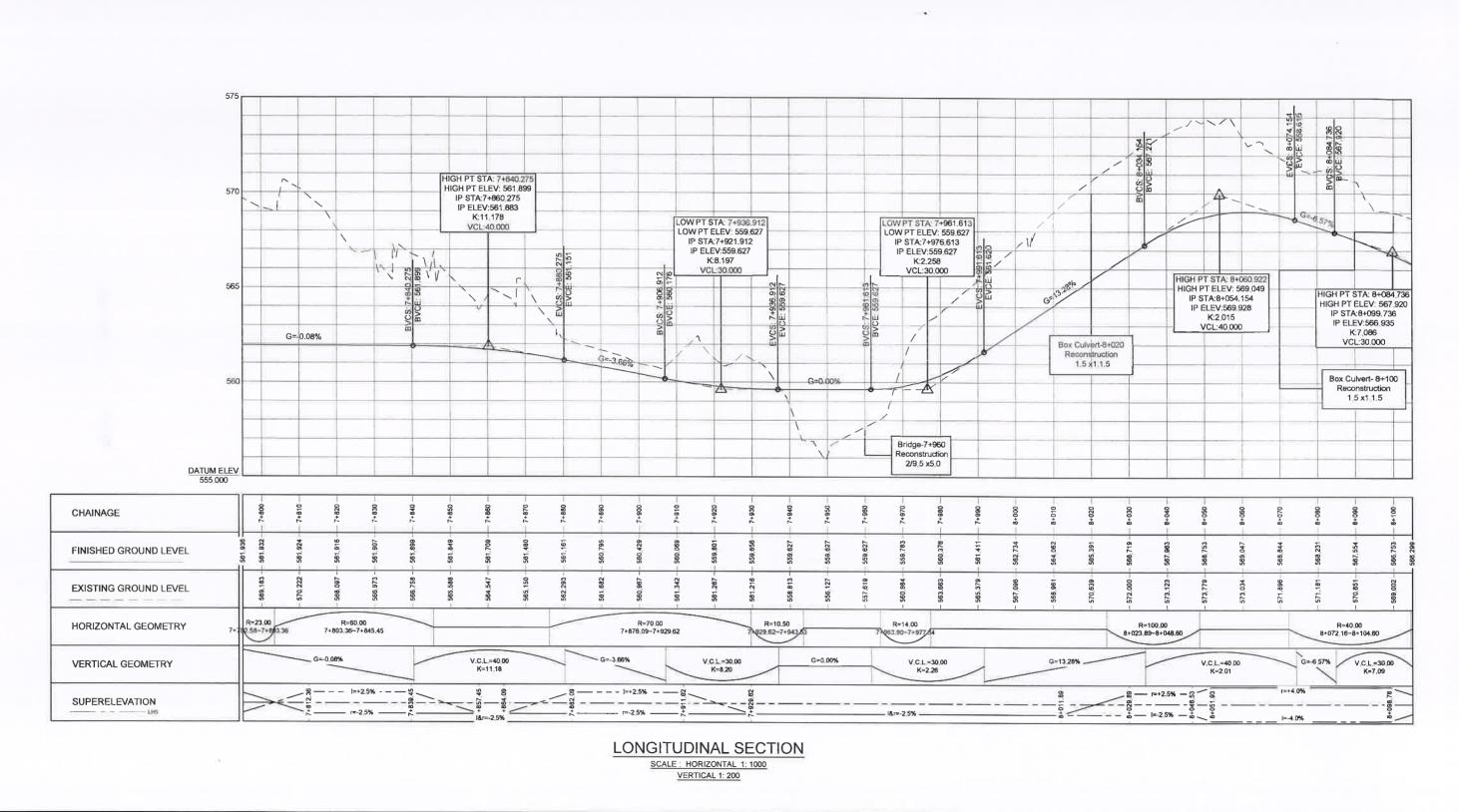


DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA. TEL: 0812368997 FAX: 0812368997 email CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA 0 KETAWALA TO MASPENNA MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km DESIGNED:
K.A.S.B. KUMARA ARACHCHI CHECKED: R.I.P. SOMARATHNA SURVEYED & PLOTTED DRAWN : B.K. RANASINGHE C.E. (DESIGN): K.A.S.B. KUMARA ARACHCH D.D(DESIGN) L.V.S.WEERAKOON DATE: 2023-03-23 PLAN AND SETTING OUT DATA - CH(9+000-9+300)Km SCALE -1:1000 DRG No : DD/D/UVA/H/1267/1_2/1/06(06)



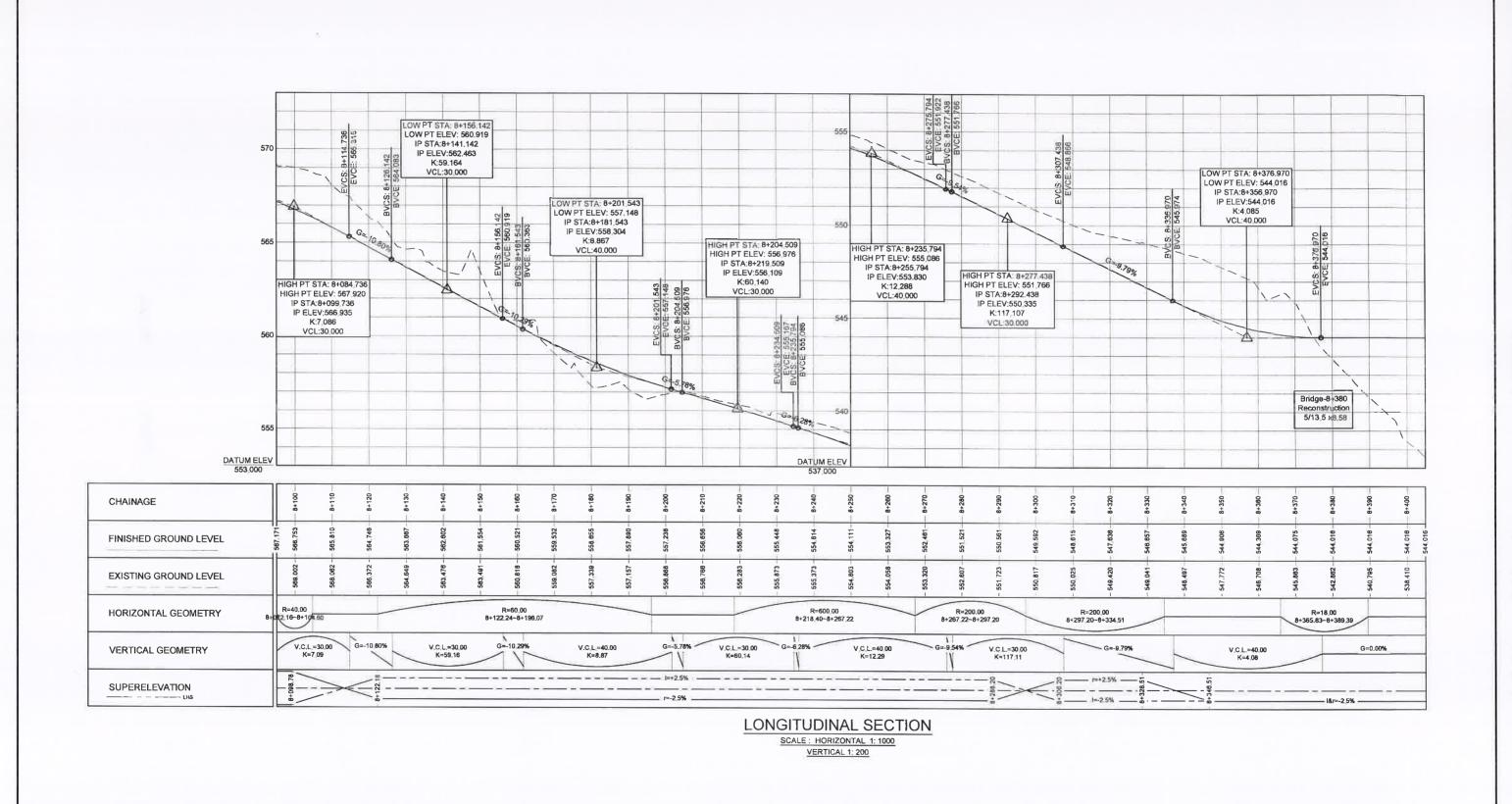
CONSTRUCTION OF RAJA MAWATHA EXTENTION ROKETAWALA TO MASPENNA	OAD FROM	REV	DESCRIPTION BY	DATE	Mara El		OCIALIST REPUBLIC OF SR OF HIGHWAYS & TRANSPOR		4	DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA. TEL: 0812388997 FAX: 0812388997 email	
SECTION FROM CH (7+500 - 9+300)Km					SURVEYED & PLOTTED ;		DESIGNED: K.A.S.B. KUMARA ARACHCHI	DRAWN: B.K. RANASINGHE		CHECKED: R.I.P. SOMARATHNA	w
PROFILE - CH(7+500-7+800)Km	SCALE -1:1000				C.E. (DESIGN): K.A.S.B. KUMARA ARACHCHI	D(DES	EERAKOON	-		DATE : 2023-03-23 DRG.No. : DD/D/UVA/H/1267	7/1 2/2/01(06)

dos



CONSTRUCTION OF RAJA MAWATHA EXTENTION KETAWALA TO MASPENNA	ON ROAD FROM	DESCRIPTION DESCRIPTION	BY, DATE	100 SO AND		CIALIST REPUBLIC OF S FHIGHWAYS & TRANSPO		4	DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 6B,GANNORUWA, PERADENIYA, TEL: 0812388997 FAX: 0812388997 email: d	
SECTION FROM CH (7+500 - 9+300)Km				SURVEYED & PLOTTED		SIGNED : LS,B, KUMARA ARACHCHI	DRAWN: B.K. RANASINGHE		CHECKED: R.LP. SOMARATHNA	A
PROFILE - CH(7+800-8+100)Km	SCALE -1:1000			C.E. (DESIGN) : K.A.S.B. KUMARA ARACHCHI	D.D(DESIGN				DATE : 2023-03-23 DRG.No. : DD/D/UVA/H/1267/	/1 2/2/02(06)

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SURVEYED & PLOTTED:

C.E. (DESIGN): K.A.S.B. KUMARA ARACHCHI

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM

SCALE -1 1000

KETAWALA TO MASPENNA

PROFILE

SECTION FROM CH (7+500 - 9+300)Km

- CH(8+100-8+400)Km

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY

TEL: 0812388997 FAX: 0812388997 email

R.I.P. SOMARATHNA

DRG.No.: DD/D/UVA/H/1267/1.2/2/03(06)

DATE: 2023-03-23

6B, GANNORUWA, PERADENIYA.

CHECKED:

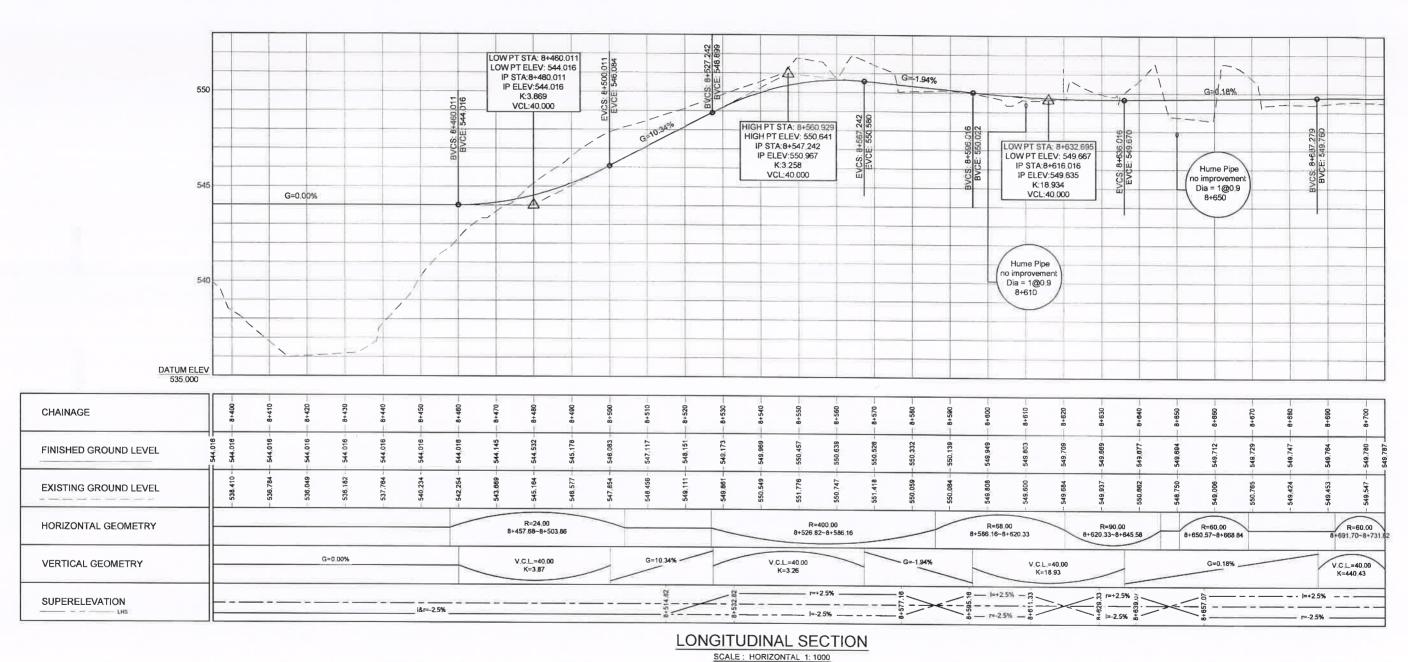
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF HIGHWAYS & TRANSPORT

L.V.S.WEERAKOON

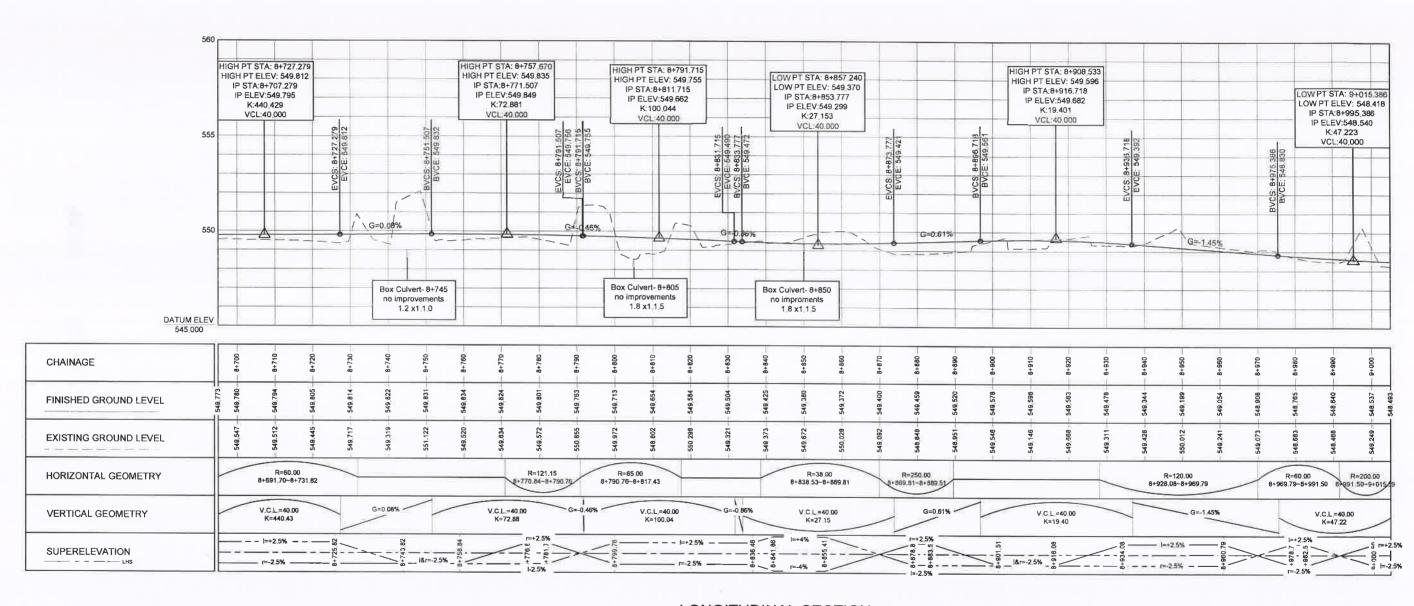
DESIGNED:
K.A.S.B. KUMARA ARACHCHI

B.K. RANASINGHE



VERTICAL 1: 200

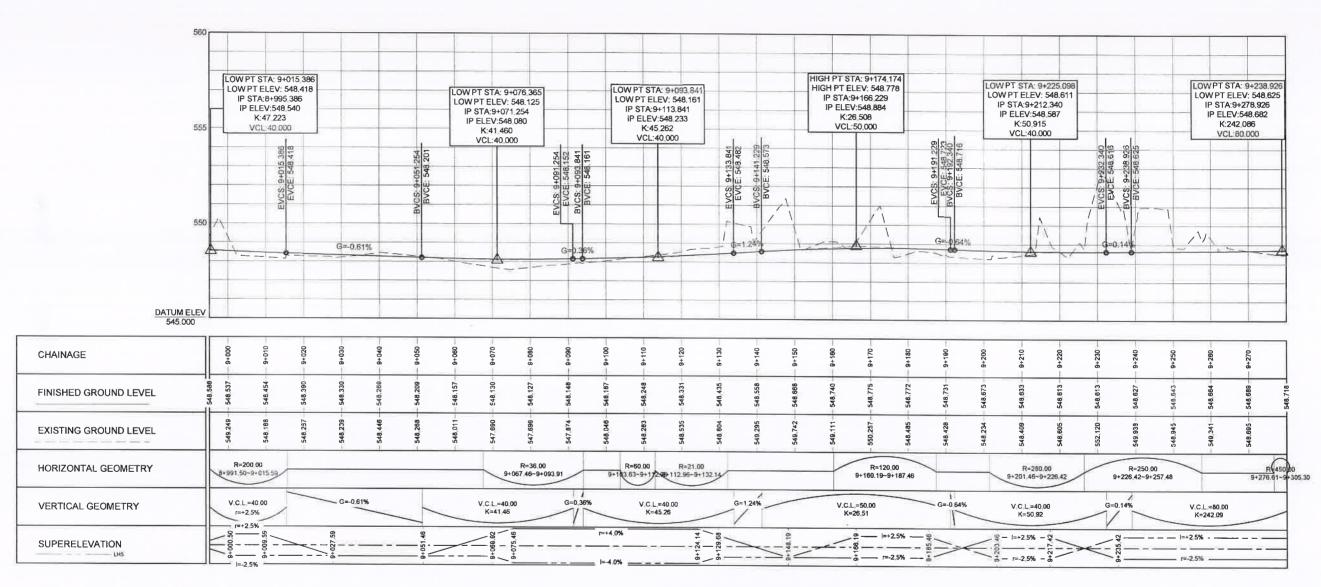
DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
6B,GANNORUWA, PERADENIYA.
TEL: 0812388997 FAX: 0812388997 email: docpkandy@gmail.com CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA 0 **KETAWALA TO MASPENNA** MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km DESIGNED:
K.A.S.B. KUMARA ARACHCHI SURVEYED & PLOTTED: CHECKED: B.K. RANASINGHE R.I.P. SOMARATHNA C.E. (DESIGN) : K.A.S.B. KUMARA ARACHCHI **PROFILE** - CH(8+400-8+700)Km D_D(DESIGN) DATE: 2023-03-23 SCALE -1:1000 L.V.S.WEERAKOON DRG.No.: DD/D/UVA/H/1267/1.2/2/04(06)



LONGITUDINAL SECTION

SCALE: HORIZONTAL 1: 1000 VERTICAL 1: 200

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA 9 6B,GANNORUWA, PERADENIYA TEL: 0812388997 FAX: 0812388997 email: docp KETAWALA TO MASPENNA MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km SURVEYED & PLOTTED : CHECKED: K.A.S.B. KUMARA ARACHCHI B.K. RANASINGHE R.I.P. SOMARATHNA PROFILE - CH(8+700-9+000)Km C.E. (DESIGN): K.A.S.B. KUMARA ARACHCH C.E. (DESIGN) D.D(DESIGN) DATE: 2023-03-23 SCALE -1 1000 L.V.S.WEERAKOON DRG.No.: DD/D/UVA/H/1267/1 2/2/05(06)



LONGITUDINAL SECTION

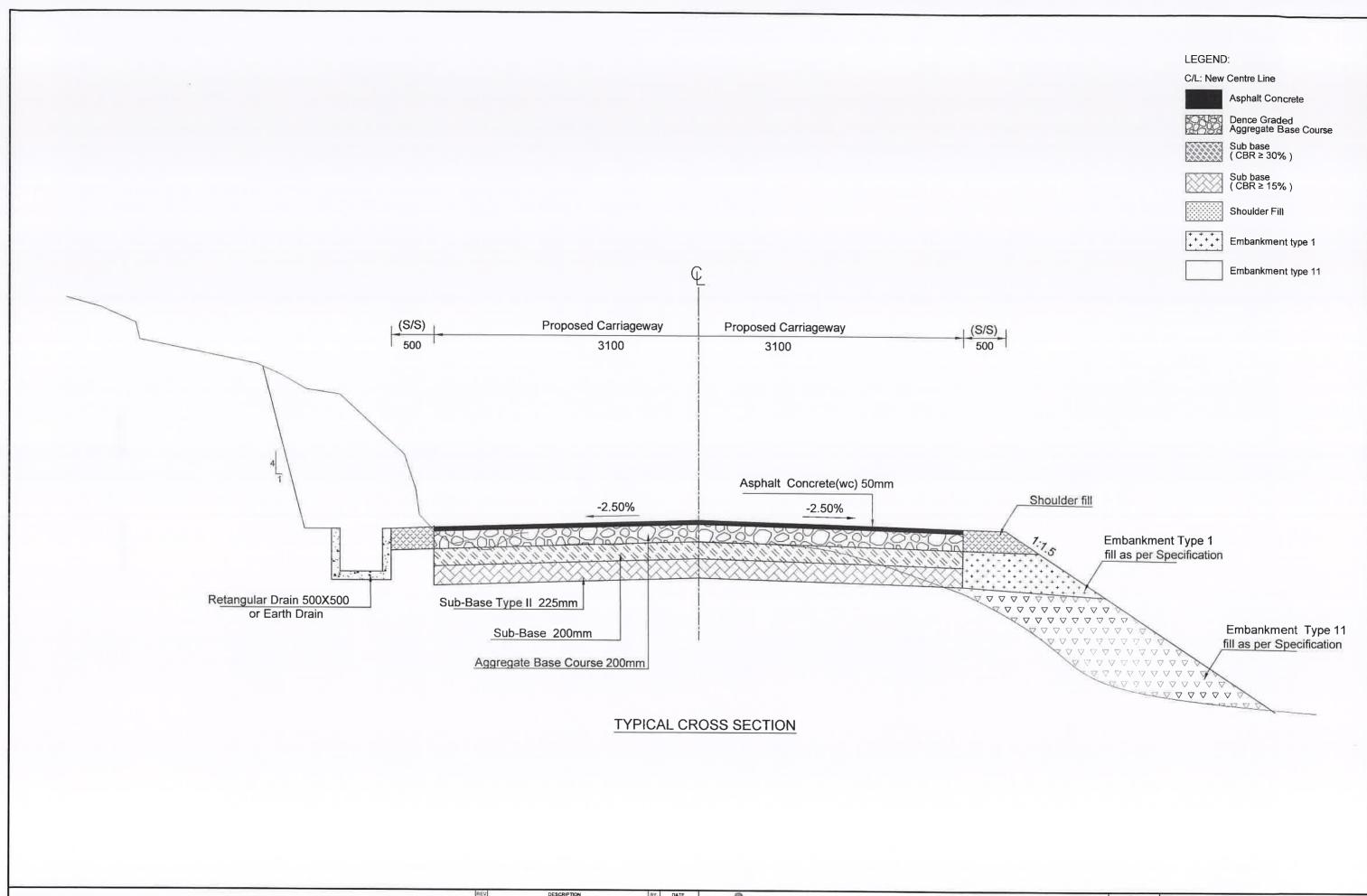
SCALE: HORIZONTAL 1: 1000 VERTICAL 1: 200

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
6B,GANNORUWA, PERADENIYA,
TEL: 0812388997 FAX: 0812388997 email: docpkandy@gmail.com CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM 0 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA **KETAWALA TO MASPENNA** MINISTRY OF HIGHWAYS & TRANSPORT SECTION FROM CH (7+500 - 9+300)Km SURVEYED & PLOTTED: LESIGNED:
K.A.S.B. KUMARA ARACHCHI DESIGNED: DRAWN: CHECKED: B.K. RANASINGHE R.I.P. SOMARATHNA PROFILE C.E. (DESIGN) D.D(DESIGN) DATE: 2023-03-23 CH(9+000-9+300)Km C.E. (DESIGN) :
K.A.S.B. KUMARA ARACHCHI D.D.(DESIGN)
L.V.S.WEERAKOON SCALE -1:1000 DRG.No.: DD/D/UVA/H/1267/1.2/2/06(06)

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (CH 7+560- CH9+300km)

: GEOMETRIC DESIGN DRAWINGS,

1.3 - TYPICAL ROAD CROSS SECTIONS



CONSTRUCTION OF RAJA MAWATHA EXTENSION ROAD FROM DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
S W.R.D. BANDARANAYAKE MAWATHA,KANDY
TEL: 0812234267 FAX: 0812234267 email: docpkandy@gmail.com DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA KETAWALA TO MASPANNA. MINISTRY OF HIGHWAYS AND TRANSPORT. (FROM CH7+560 TO 9+300 km) DESIGNED : K.A.S.B.KUMARA ARACHCHI SURVEYED & PLOTTED DRAWN: S.M.S.T.THILAKARATHNA CHECKED: R.I.P.SOMARATHNA TYPICAL CROSS SECTION C.E. (DESIGN) : K.A.S.B.KUMARAARACHCHI D.D (DESIGN) L.V.S.WEERAKOON SCALE -DATE: 23-13-2023 DRG.No.: DD/D/UVA/H/TY.CS/1267/01/(01)

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (CH 7+560- CH9+300km)

: GEOMETRIC DESIGN DRAWINGS,

1.4 - PAVEMENT DESIGN THICKNESSES

CONSTRUCTION OF RAJA MAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA.(FROM CH7+560 TO 9+000)km

	RE	EGION		DESIGN THICKNI	ESS OF PAVEMENT LAYERS (m	ım)
				RI	ECONSTRUCTIONS	
No	FROM	то	WEARING COURSE	DENSE GRADED AGGREGATE BASE(CBR>=80)	SOIL SUB BASE TYPE 1 (CBR≥30)	SOIL SUB BASE TYPE 11 (CBR ≥ 15)
1	7+560	9+300	50	200	200	225

CONSTRUCTION OF RAJA MAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA.
FROM (CH7+560 TO 9+300 km)

R1. VERTICAL PROFILE CHANGED



DATE 26-11-2011

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS AND TRANSPORT.

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DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
6B,GANNORUWA, PERADENIYA.
TEL: 0812388997 FAX: 0812388997 email: docpkandy@gmail.com

SURVEYED & PLOTTED :

DESIGNED : K.A.S.B.KUMARAARACHCHI DRAWN : S.M.S.T.THILAKARATHNA B,GANNORUWA, PERADENIYA.

EL: 0812388997 FAX: 0812388997 email: docpkandy@gmail.

CHECKED

R.P.I.SOMARATHNA

DRG.No.: DD/D/UVA/H/1267/1.6/01(01)

PAVEMENT DESIGN THICKNESSES

SCALE -

C.E. (DESIGN): K.A.S.B.KUMARA ARACHCHI

A-

D.D.(DESIGN): L.V.S.WEERAKOON THNA R.P.I.SOMARATHNA
DATE: 23 - 03 - 2023

CONSTRUCTION OF RAJA MAWATHA EXTENTION ROAD FROM KETAWALA TO MASPANNA (CH 7+560- CH9+300km)

: GEOMETRIC DESIGN DRAWINGS,

1.5 - STRUCTURES

	GA	BION WA	\LL
CHAINAGE	LHS	RHS	TYPICAL SECTION
8+036 - 8+081	45m	-	TYPE S.B -1
8+081 - 8+110	29m	-	TYPE S.B -2
8+140 - 8+230	90m		TYPE S.B -1
8+230 - 8+270	20m	-	TYPE S.B -2

MAS	S CONC	RETE RE	ETAINING WALLS
CHAINAGE	LHS	RHS	TYPICAL SECTION
7+590 - 7+610	20m	-	M.C.R- 03
7+700 - 7+730	30m	-	M.C.R- 05
7+790 - 7+810	20m	-	M.C.R- 03
8+500 - 8+520	20m	5	M.C.R- 05
8+600 - 8+620	20m	-	M.C.R- 03
9+200 - 9+230	30m	5 7	M.C.R- 06

E	BOX CULVER	ГТҮРЕ
CHAINAGE	SIZE	TYPICAL SECTION
8+100	1.5 x 1.5	BOX CULVERT/ M.C.R- 02
8+020	1.5 x 1.5	BOX CULVERT/ M.C.R- 02

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM KETAWALA TO MASPANNA.
(FROM CH 07+560 TO 09+300 km)

DETAILS OF WALL AND CULVERT

DESCRIPTION	197

SCALE - 1:50

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS AND TRANSPORT



DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B. SAMAGI NIWASA, GANNORUWA, PERADENIYA,
TEL: 0812234267 FAX: 0812234267 email: dacp@rda.gov.jk

SURVEYED & PLOTTED

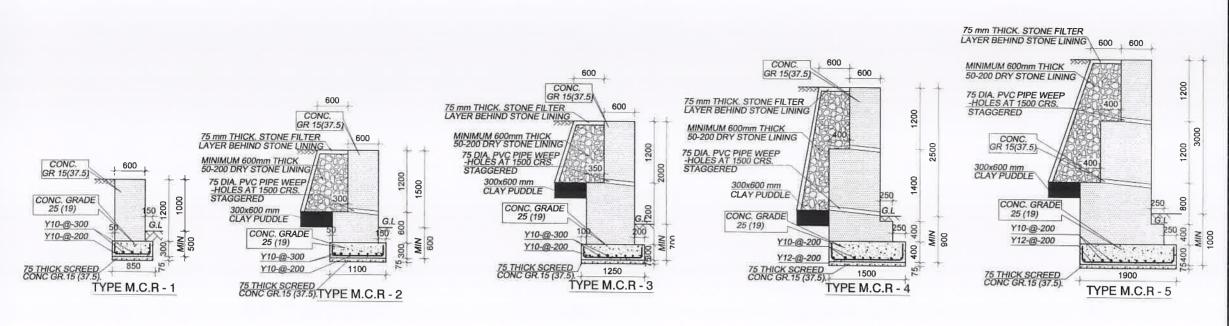
C.E. (DESIGN): K.A.S.B. KUMARAARACHCI DESIGNED: K.A.S.B.KUMARAARACHCI D.D.(DESIGN) L.V.S.WEERAKOON

JA

DRAWN : JAGATH C RAJAPAKSE

CHECKED: R.I.P.SOMARATHNA

DATE : 23-03-2023 DRG.No. : DD/D/CP/UVA/STR/1267/1.5/01-07



GENERAL NOTES

- (a) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
- (b) ALL MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH REQUIREMENT OF THE SPECIFICATION
- (c) POROUS BACKFILL TO BE PROVIDED ALONG THE ENTIRE LENGTH OF THE WALL AS INDICATED
- (d) WEEP HOLES TO BE PROVIDED AT 1500m C/C STRAGGERED USING 75mm DIA. PVC PIPES
- (e) EXPANSION JOINT TO BE PROVIDED AT EVERY 5m INTERVAL USING THERMOFORM

CONCRETE

USE FOLLOWING CONCRETE GRADES FOR STRUCTURE OR PART OF A STRUCTURE MENTIONED BELOW WITH REQUIREMENT OF THE STANDARD SPECIFICATION

(a) SCREED - GR. 15/37.5

(b) FOUNDATION BASE - GR. 25/19

(c) SUB STRUCTURE - GR. 15/37.5

REINFORCEMENT

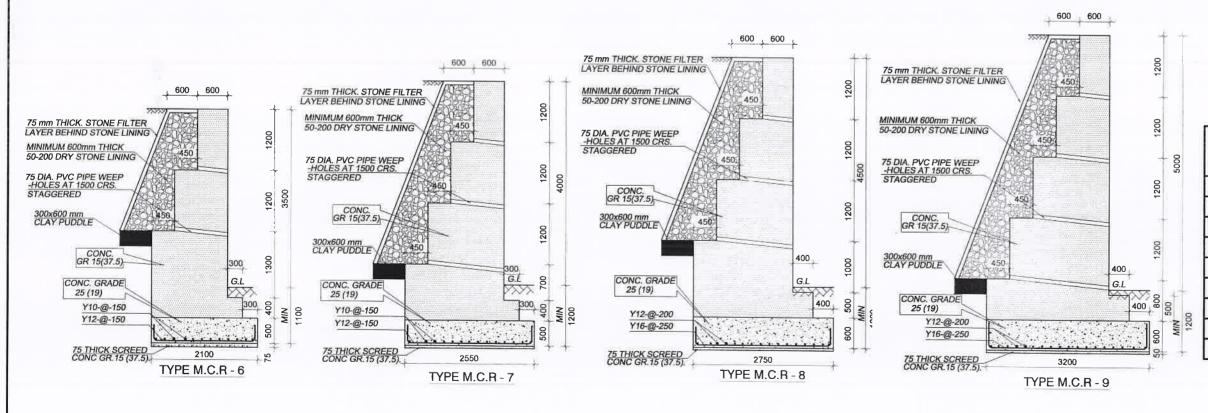
- (a) ALL BARS MARKED "Y" SHALL BE HIGH YIELD DEFORMED BARS OF YIELD STRENGTH NOT LESS THAN 460N/mm;
- (b) BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED WITH LENGTH OF 50Ø, WHERE Ø IS THE DIAMETER AND LAPPING SHOULD BE STRAGGERED
- (c) REINFORCEMENT BARS SHALL BE BENT ACCORDANCE WITH STANDARD SPECIFICATIONS
- (d) CLEAR CONCRETE COVER FOR ALL REINFORCEMENT TO BE 50mm

FORM WORK

- (a) TYPE OF FORM WORK FOR FOUNDATION SLAB TO BE ROUGH FINISH.
- (b) TYPE OF FORM WORK FOR SUB STRUCTURE TO BE SMOOTH FINISH.

SPECIAL NOTES

- (a) ALLOWABLE BEARING CAPACITY OF THE GROUND AND THE PASSIVE EARTH HEIGHT SHALL BE CHECKED BY THE ENGINEER
- (b) M.C.R = MASS CONCRETE RETAINING WALL.



RETAINNG WALL TYPE	HEIGHT OF THE WALL ABOVE THE GROUND LEVEL (m)	ALLOWABLE BEARING STRENGTH OF SOIL SHOULD NOT BE LESS THAN (KN/㎡)	PASSIVE EARTH HEIGHT
M.C.R-1	1.0	75.00	0.5
M.C.R-2	1.5	100.00	0.6
M.C.R-3	2.0	140.00	0.7
M.C.R-4	2.5	145.00	0.9
M.C.R-5	3.0	155.00	1.0
M.C.R-6	3.5	175.00	1.1
M.C.R-7	4.0	185.00	1.2
M.C.R-8	4.5	190.00	1.2
M.C.R-9	5.0	200.00	1.2

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FRO	M
KETAWALA TO MASPANNA	
(FROM CH 07+560 TO 09+300 km)	

TYPICAL SECTION OF MASS CONCRETE RETAINING WALLS AND

HEAD WALLS

DESCRIPTION	BY

SCALE -

DEMOCRATIC	SOCIALIST	REPUBLIC	OF	SRI LANKA
MINISTRY	OF HIGHWA	AYS AND TE	RAN	SPORT

DESIGNED AG ARIYAWANSA

D D (DESIGN)
L V S WEERAKOON

0

C.E. (DESIGN)

A.G.ARIYAWANSA

SURVEYED & PLOTTED :



DRAWN:

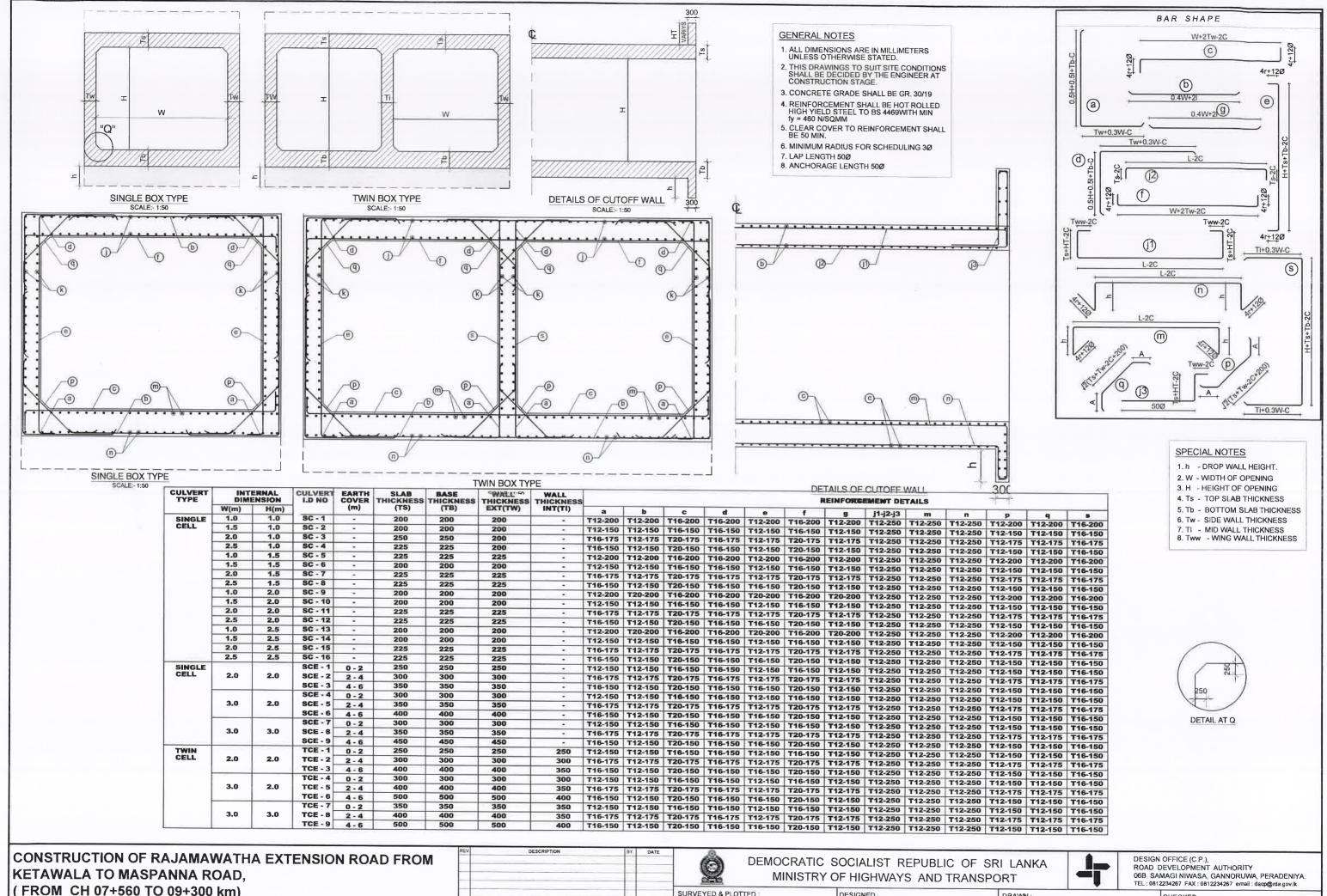
J.C. RAJAPAKSHA

4

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 06B. SAMAGI NIWASA, GANNORUWA, PERADENIYA TEL: 0812234267 FAX: 0812234267 email: dacp@rda.gov.lk

CHECKED: A.G. ARIYAWANSA

DATE: 23 03-2023 DRG.No.: DD/D/CP/UVA/TP/1267/1.5/02-07



C.F. (DESIGN)

TYPICAL BOX CULVERT AND WINGWALL DETAILS

SCALE -

DESIGNED

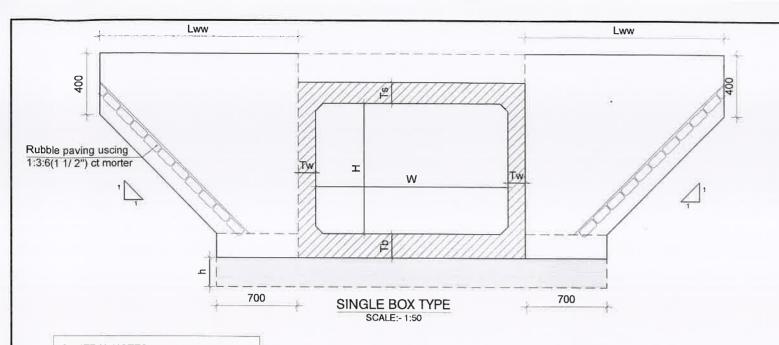
A.G. ARIYAWANSA D.D.(DESIGN)

L.V.S.WEFRAKOON

J.C. RAJAPAKSHA

CHECKED

DATE: 23 03-2023 DRG No.: DD/D/CP/UVA/TP/1267/1.5/03-07

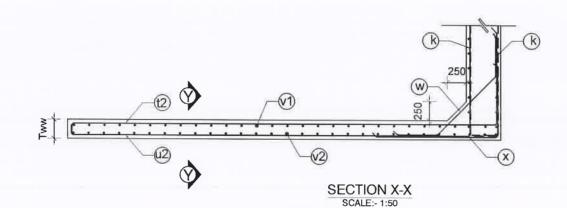


GENERAL NOTES

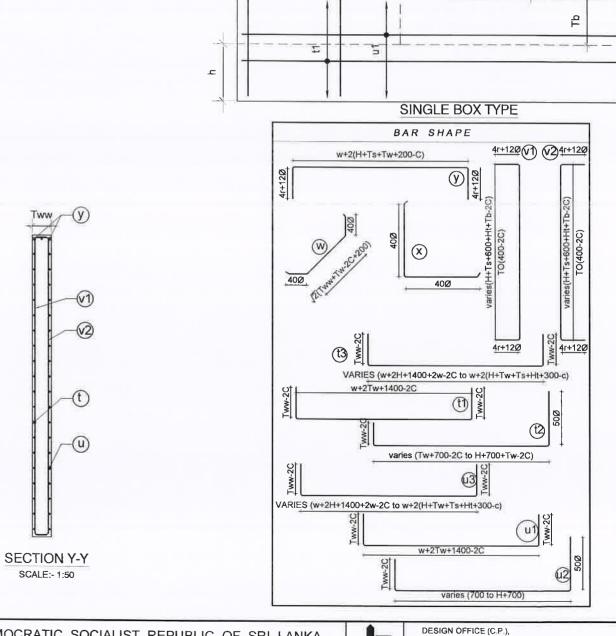
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 THIS DRAWINGS TO SUIT SITE CONDITIONS SHALL BE DECIDED BY THE ENGINEER AT CONSTRUCTION STAGE.
- 3. CONCRETE GRADE SHALL BE GR. 30/19
- 4 REINFORCEMENT SHALL BE HOT ROLLED HIGH YIELD STEEL TO BS 4469WITH MIN fy = 460 N/SQMM
- 5. CLEAR COVER TO REINFORCEMENT SHALL BE 50 MIN.
- 6. MINIMUM RADIUS FOR SCHEDULING 3Ø
- 7. LAP LENGTH 50Ø 8. ANCHORAGE LENGTH 50Ø

SPECIAL NOTES

- 1, h DROP WALL HEIGHT.
- 2.W WIDTH OF OPENING 3. H - HEIGHT OF OPENING
- 4 Ts TOP SLAB THICKNESS
- 5, Tb BOTTOM SLAB THICKNESS
- 6. Tw SIDE WALL THICKNESS
- 7. TI MID WALL THICKNESS 8 Tww - WING WALL THICKNESS



CULVERT TYPE		RNAL NSION	WING WALL THICKNESS	REINFORCEMENT DETAILS						
	W(m)	H(m)		t1-t2-t3	v1	u1-u2-u3	v2	y	w	×
SINGLE	1.0	1.0	250	T12-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
CELL	1.5	1.0	250	T12-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	2.0	1.0	250	T12-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	2.5	1.0	250	T12-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	1.0	1.5	250	T20-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	1.5	1.5	250	T20-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
Ī	2.0	1.5	250	T20-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	2.5	1.5	250	T20-250	T10-250	T10-300	T10-300	2 T 25	T12-250	T12-250
	1.0	2.0	300	T16-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	1.5	2.0	300	T16-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	2.0	2.0	300	T16-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	2.5	2.0	300	T25-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	1.0	2.5	300	T25-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	1.5	2.5	300	T25-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	2.0	2.5	300	T25-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250
	2.5	2.5	300	T25-125	T12-250	T10-250	T10-250	3 T 25	T12-250	T12-250



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v2

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM
KETAWALA TO MASPANNA ROAD,
(FROM CH 07+560 TO 09+300 km)

v.	DESCRIPTION	BY.	DATE

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS AND TRANSPORT



DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 06B. SAMAGI NIWASA, GANNORUWA, PERADENIYA. TEL: 0812234267 FAX: 0812234267 email: dacp@rda.gov.lk

SURVEYED & PLOTTED C.E. (DESIGN): A.G.ARIYAWANSA

DESIGNED : A.G. ARIYAWANSA

(y)

J.C. RAJAPAKSHA

CHECKED: A.G ARIYAWANSA

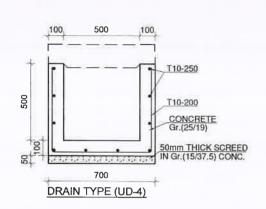
TYPICAL BOX CULVERT AND WINGWALL DETAILS

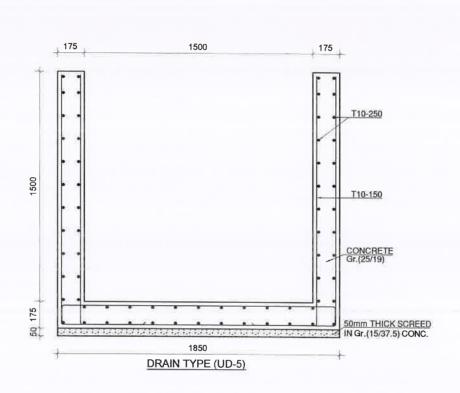
SCALE -

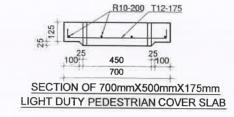
D.D.(DESIGN) L.V.S.WEERAKOON DATE: 23-03-2023 DRG No : DD/D/CP/UVA/TP/1267/1 5/04-07

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GENERAL NOTE:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2. ALL MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH OF THE SPECIFICATION.
- 3. TYPE & NUMBERS OF COVER SLAB SHALL BE INSTRUCTED BY THE ENGINEER.

CONCRETE:

- EXPOSED SHARP EDGES OF CONCRETE SHALL BE CHAMFERED.
- 2. APPROPRIATE PROVISIONS TO BE MADE TO FACILITATE HANDLING OF SLAB.
- 3. CONCRETE GRADE SHALL BE USED AS FOLLOWS:
 (a) PRECAST RCC: GRADE 25/19
 (b) DRAIN BASE: GRADE 20/19

REINFORCEMENT:

- 1. ALL BARS MARKED "R" SHALL BE HOT ROLLED MILD STEEL PLAIN BARS OF YIELD STRENGTH NOT LESS THAN 250 N/mm.
- 2. ALL BARS MARKED "T" SHALL BE HIGH YIELD DEFORMED BARS OF YIELD STRENGTH NOT LESS THAN 460 N/mm.
- 3. REINFORCEMENT BARS SHALL BE BENT ACCORDANCE WITH STANDARD SPECIFICATIONS.
- 4. CLEAR COVER FOR ALL REINFORCEMENT SHALL BE 20 mm MINIMUM.

WEEP HOLE:

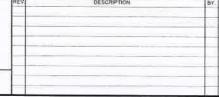
- 1. WEEP HOLE TO BE PROVIDED AT 2000mm C/C STRAGGERED USING 75mm DIA. PVC PIPES.
- 2. AT THE PAVEMENT EDGE, THE WEEP HOLES TO BE PROVIDE AT THE BOTTOM OF ABC. IF THE DEPTH OF CONCRETE DRAIN IS LESS THAN BOTTOM LEVEL OF ABC, THE WEEP HOLE AT THE PAVEMENT EDGE SHALL BE PROVIDE HIGHER THAN THE BOTTOM SLAB OF CONCRETE DRAIN 100 mm OR AS INSTRUTED BY THE ENGINEER:
- 3. WEEP HOLES SHALL BE PLACE 45 DEGREES HORIZONTAL ANGLE TO MATCH WATER FLOW DIRECTION OF CONCRETE "U" DRAIN.

SPECIAL NOTE

DRAIN TYPE AND THE HEIGHT OF THE DRAIN TO BE DECIDED TO SUITE SITE CONDITION AS DIRECTED BY THE ENGINEER.

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM	
KETAWALA TO MASPANNA	
(FROM CH 07+560 TO 09+300 km)	

TYPICAL DETAILS OF "U" DRAIN AND COVER SLAB





DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS AND TRANSPORT

SURVEYED & PLOTTED : DESIGNED : A G. ARIYAWANSA

D D (DESIGN)
L.V.S WEERAKOON

DRAWN: J.C. RAJAPAKSHA DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
06B. SAMAGI NIWASA, GANNORUWA, PERADENIYA.
TEL: 0812234287 FAX: 0812234287 email: dacp@rda.gov.ik

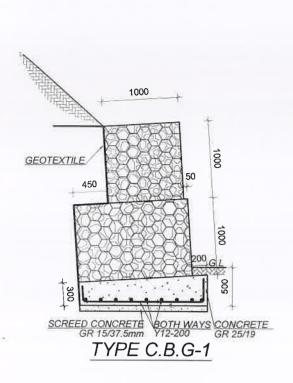
A.G ARIYAWANSA DATE : 23-03-2023

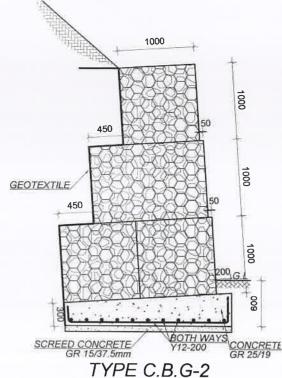
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SCALE -

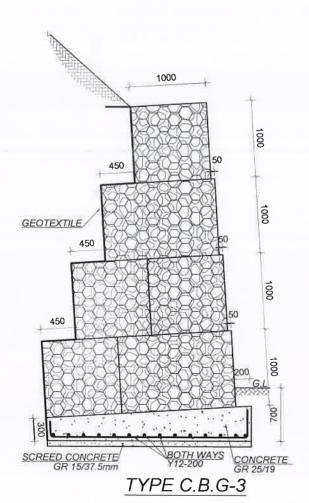
C.E (DESIGN): A G ARIYAWANSA A

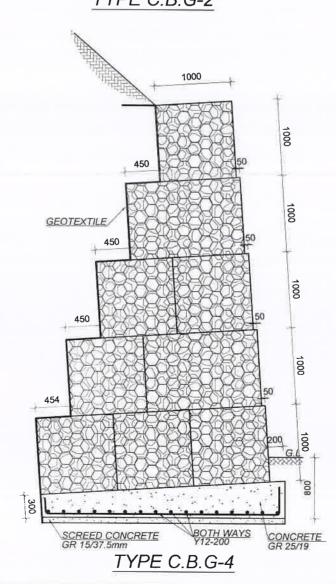
DATE: 23-03-2023 DRG.No.: DD/D/CP/UVA/TP/1267/1.5/06-07





1000	GABION WALL TYPE	HEIGHT OF THE WALL ABOVE THE GROUND LEVEL (m)	PASSIVE EARTH HEIGHT
100	C.B.G - 1	2.00	0.5
THE THE SECOND S	C.B.G - 2	3.00	0.6
450	C.B.G - 3	4.00	0.7
	C.B.G - 4	5.00	0.8
LE 00	C.B.G - 5	6.00	0.9
450 50 00 00 00 00 00 00 00 00 00 00 00 0			





SPECIFICATION

(1) Galvanization and Plastic Coating:

All the wire used in the manufacture of gabion system units, and that used for connecting them together , (which reguives wire with diameter not less than 2.2mm) complies with the strictest international standards.

-BS 1052/80

-ASTM-A641-82 Class 3

The steel wire is heavily zino coatoo for protation against corrossion. -ASTM a641-82

The galvanization is coatoo with a PVC sheath of a nominal thickness of 0.50mm. The main values for the PVC material are as follows.

-Colour: Gray - ASTM D1482-57T

-Specific weight: between 1.30& 1.35 dN/dm3 -ASTM D792-91

-Hardness:betteen 50&60 -ASTM D2240-91

-Teasile strengh: not less than 210dN/cm2- ASTM D412-92 -Elongation: between 200% & 280% - ASTM D412-92 -Weight loss: less than 5% after 24hrs. at 105c -ASTM D2287-92

-Residual ashes :less than 2% - ASTM D2124-62T

-Abrasion resstanes: loss in volume less than 0.30cm3 ASTM D1242-56(75) Test method A

CONSTRUCTION OF RAJAMAWATHA EXTENSION ROAD FROM **KETAWALA TO MASPANNA** (FROM CH 07+560 TO 09+300 km)

TYPICAL GABION WALL SECTION WITH CONCRETE BASE

EV	DESCRIPTION	BY.

SCALE -



C.E. (DESIGN): A.G.ARIYAWANSA

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS AND TRANSPORT

SURVEYED & PLOTTED

D.D.(DESIGN)

L.V.S.WEERAKOON

DRAWN: J.C. RAJAPAKSHA

DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY 06B. SAMAGI NIWASA, GANNORUWA, PERADENIYA. TEL: 0812234267 FAX: 0812234267 email: dacp@rda.gov.lk

DESIGNED : A.G. ARIYAWANSA



DRG No : DD/D/CP/UVA/TP/1267/1.5/05-07

