

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

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

Contract No.	Contract Name	Engineer's Estimate without Contingencies (Rs.Mn)	CIDA grade	Bid Security (Rs.Mn)	Contract Duration (Days)
RDA/DC/NC P/GOSL/202 3/01	BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD	70.6	C-04 and C-03	1,200,000.00	273

2. The works consist of removal of existing structure, construction of substructure, superstructure & approaches.
3. Bidding will be conducted through the National Competitive Bidding Procedure.
4. To be eligible for the contract award, the successful bidders shall be currently registered with the Construction Industry Development Authority (CIDA) in grade given in the above table in **Bridge speciality**.
5. Interested bidders may obtain further information from the following offices and refer the bidding document via [www.rda.gov.lk](http://www.rda.gov.lk) from 06.11.2023
- a. Director (Construction), Road Development Authority, 3<sup>rd</sup> Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla.  
T: 011 – 2864388, Fax No. 011 – 2861821
- b. Provincial Director (NCP), Road Development Authority, Anuradhapura  
T: 025-2235201 & fax: 025-2235201
6. The Pre-Bid meeting will be held at 10:00 hrs on 16.11.2023 at the office of the **Provincial Director (NCP)**, Anuradhapura and a site visit will be arranged immediately thereafter if necessary.
7. A complete set of Bidding Documents in English language shall be purchased by interested bidders via email on submission of a written application and valid cash deposit slip of non refundable tender fee (contract number & name of the Bidder should be indicated on the cash deposit slip) to the Director (Construction), RDA, via email from 06.11.2023 until 28.11.2023 during 09:00 hrs to 15:00 hrs.  
The e-mail address is [construction.rda@gmail.com](mailto:construction.rda@gmail.com)  
Non refundable tender fee Rs 14,375.00 (with VAT) for the bidding document can be paid by depositing cash to the following account
- a. Account name : Director General –RDA  
b. Account number : 0000001943  
c. Bank Name : Bank of Ceylon-Corporate branch
- Original/valid cash deposit slip should be submitted with the Bid 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 table. Bid Securities shall be valid up to 27.03.2024
9. Bids shall be valid up to 28.02.2024.
10. Bids shall be delivered in duplicate to the Chairman, Road Development Authority Procurement Committee, C/o Director General, Road Development Authority, 1<sup>st</sup> Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla on or before 14:00 hrs on 29.11.2023. Late bids will be rejected. Bids will be opened soon after the closing, in the presence of the bidder's representatives who choose to attend.

**The Chairman,**

**Road Development Authority Procurement Committee**  
**Road Development Authority,**  
**First Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha**  
**Battaramulla**

**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**

**MINISTRY OF TRANSPORT & HIGHWAYS**

**ROAD DEVELOPMENT AUTHORITY**



**BIDDING DOCUMENT  
FOR**

**BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON  
MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU  
ROAD**

**CONTRACT NO: RDA/DC/NCP/GOSL/2023/01**

**BID SUBMITTED BY**

.....  
[Name of the Bidder]

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**Project Location Map**

Only for reference

## **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 Institute for Construction Training and Development (ICTAD): -

STANDARD BIDDING DOCUMENT

PROCUREMENT OF WORKS

SECOND EDITION – JANUARY 2007 with **addendum issued in October 2009** by

**ICTAD**

- ICTAD PUBLICATION NO. – ICTAD/SBD/01
- 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**

*Only for reference*

**VOLUME 1**

Section	1	Instruction to Bidders
Section	2	Standard Forms (Contract)
Section	3	Conditions of Contract

Only for reference

# Section - 1

## Instruction to Bidders

The text of this 'Instructions to Bidders' is found in the  
'Standard Bidding Document Procurement of Works'  
ICTAD Publication No. ICTAD/SBD/01 – Second Edition – January 2007 with Addendum issued in  
October 2009 by ICTAD

This publication is copyright and bidders, if they do not already possess a copy, may obtain it from:  
Institute for Construction Training and Development  
'Savsiripaya'  
123, Wijerama Mawatha  
Colombo-07

This has to be read in conjunction with Addendum of SBD/01 issued in October 2009 by ICTAD and  
Section – 5 – 'Bidding Data and Contract Data' of this Bidding Document. Wherever the Clauses of the  
Section -1 – 'Instruction to Bidders' have to be modified and/or supplemented, it is done through the text  
in the Section -5 – 'Bidding Data and Contract Data'.



## **Section - 2**

### **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 **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD** under Contract No: **RDA/DC/NCP/GOSL/2023/01** for the Contract Price of Rupees ..... as corrected in accordance with Instruction to Bidders is hereby accepted.

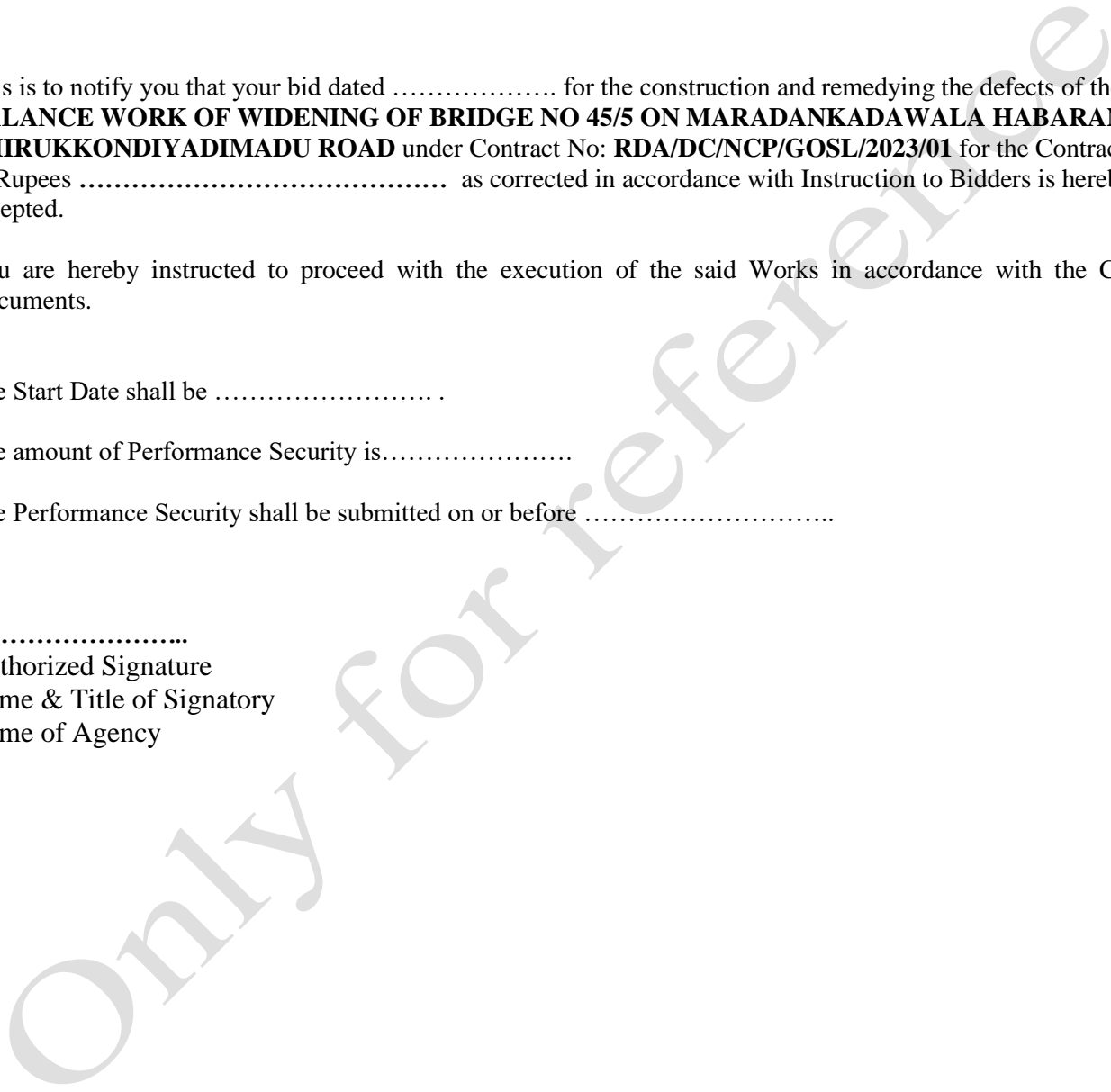
You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract Documents.

The Start Date shall be .....

The amount of Performance Security is.....

The Performance Security shall be submitted on or before .....

.....  
Authorized Signature  
Name & Title of Signatory  
Name of Agency



# 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<sup>st</sup> floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

**Date:** .....

**PERFORMANCE GUARANTEE No.:** .....

We have been informed that ..... [Name of Contractor]  
(hereinafter called, "the Contractor") has entered into Contract No **RDA/DC/NCP/GOSL/2023/ 01** dated  
..... with you, for the **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON  
MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD** , (hereinafter called "the  
Contract").

Furthermore, we understand that, according to the Conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we ..... [name of Agency] hereby  
irrevocably undertake to pay you any sum or sums not exceeding in total an amount of  
.....[amount in figures] (.....  
.....) [amount in words], upon receipt by us of  
your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its  
obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum  
specified therein.

This guarantee shall expire, no later than the ..... day of .....2023 [28 days beyond the expiry of the intended  
completion date ] and any demand for payment under it must be received by us at this office on or before that date.

-----  
Name, Signature and the Seal of the Agency:

Name of the Organization .....

Designation .....

Date: .....

Witness:

Name ..... NIC No .....Signature.....

Name ..... NIC No .....Signature.....

## FORM OF AGREEMENT

This Agreement made on the ..... [day] of ..... [Month] 2023, between the Road Development Authority established by the Road Development Authority Act No. 73 of 1981, situated at “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla, (hereinafter called and referred to as “ the Employer”), of the one part, and.....[name and address of Contractor])(hereinafter called and referred to as “the Contractor”), of the other part:

**Whereas** the Employer desires that the Contractor executes the **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD**, under Contract No: **RDA/DC/NCP/GOSL/2023/01** (hereinafter called and referred to as “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, 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. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof the parties hereto have caused this Agreement to be executed on the day and year aforementioned in accordance with laws of Sri Lanka.

.....

.....

Name: .....

Authorized signature  
On behalf of the Employer

Authorized Signatory of Contractor

Common Seal

Common Seal

In the presence of Witness:

In the presence of Witness:

.....

.....

Name .....

Name .....

NIC No. ....

NIC No. ....

Address .....

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<sup>st</sup> floor, “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

**Date:** .....

**ADVANCE PAYMENT GUARANTEE No.:**.....

We have been informed that ..... [name of Contractor](hereinafter called, “the Contractor”) has entered into Contract No: **RDA/DC/NCP/GOSL/2023/01** dated .....2023, with you, for the ‘**BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD**’ (hereinafter called “the Contract”).

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum .....[amount in figures] ( .....) [amount in words] is to be made against an advance payment guarantee.

At the request of the Contractor, we ..... [name of issuing Agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of .....[amount in figures] (.....) [amount in words], upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation in repayment of the advance payment under the Contract.

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 .....

Name of the Organization .....

Date: .....

Witness:

Name ..... NIC No ..... Signature .....

Name ..... NIC No ..... Signature .....

## FORM OF RETENTION MONEY GUARANTEE

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

**Beneficiary:** Director General, Road Development Authority, 1<sup>st</sup> Floor, Maganeguma Mahamedura",216, Denzil Kobbekaduwa Mawatha, Battaramulla.

Date: -----

### RETENTION MONEY GUARANTEE No.:-----

we have been informed that -----(name of Contractor) (hereinafter called "the Contractor") had entered into Contract No: **RDA/DC/NCP/GOSL/2023/01** dated .....2023, with you, for the execution of **'BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD'**(hereinafter called "the Contract") Furthermore, we understand that, according to the Conditions of Contract, when the works have been taken over and the first half of the Retention Money has been certified for payment, payment of the second half of the Retention Money may be made against a Retention Money guarantee.

At the request of the Contractor, we -----(name of agency) hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- (amount in figures)-----  
----- (amount in words) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor has not attended to the defects in accordance with the Contract.

The guarantee shall expire, at the latest, ----- (insert 28 days after the end of the Defects Notification Period). 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:

Name of the Organization .....

Designation .....

Date: .....

Witness:

Name ..... NIC No ..... Signature .....

Name ..... NIC No ..... Signature .....

## **Section - 3**

# **Conditions of Contract**

The text of this 'Conditions of Contract' is found in the  
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Colombo-07

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Section – 5 – 'Bidding Data and Contract Data' of this Bidding Document. Wherever the Clauses of the  
Section -3 – 'Conditions of Contract Bidders' have to be modified and/or supplemented, it is done  
through the text in the Section -5 – 'Bidding Data and Contract Data'.

**VOLUME - 2**

Only for reference



## **VOLUME 2**

- Invitation for Bids
- Section 4 Form of Bid and Qualification Information
- Section 5 Bidding Data and Contract Data
- Section 6 Specifications
- Section 7 Bill of Quantities
- Section 8 Drawings
- Section 9 Standard Bid Forms

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

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

Contract No.	Contract Name	Engineer's Estimate without Contingencies (Rs.Mn)	CIDA grade	Bid Security (Rs.Mn)	Contract Duration (Days)
RDA/DC/NC P/GOSL/202 3/01	BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD	70.6	C-04 and C-03	1,200,000.00	273

2. The works consist of removal of existing structure, construction of substructure, superstructure & approaches.
3. Bidding will be conducted through the National Competitive Bidding Procedure.
4. To be eligible for the contract award, the successful bidders shall be currently registered with the Construction Industry Development Authority (CIDA) in grade given in the above table in **Bridge speciality**.
5. Interested bidders may obtain further information from the following offices and refer the bidding document via [www.rda.gov.lk](http://www.rda.gov.lk) from 06.11.2023
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T: 011 – 2864388, Fax No. 011 – 2861821
- b. Provincial Director (NCP), Road Development Authority, Anuradhapura  
T: 025-2235201 & fax: 025-2235201
6. The Pre-Bid meeting will be held at 10:00 hrs on 16.11.2023 at the office of the **Provincial Director (NCP)**, Anuradhapura and a site visit will be arranged immediately thereafter if necessary.
7. A complete set of Bidding Documents in English language shall be purchased by interested bidders via email on submission of a written application and valid cash deposit slip of non refundable tender fee (contract number & name of the Bidder should be indicated on the cash deposit slip) to the Director (Construction), RDA, via email from 06.11.2023 until 28.11.2023 during 09:00 hrs to 15:00 hrs.  
**The e-mail address is [construction.rda@gmail.com](mailto:construction.rda@gmail.com)**  
 Non refundable tender fee Rs 14,375.00 (with VAT) for the bidding document can be paid by depositing cash to the following account
- a. Account name : Director General –RDA  
 b. Account number : 0000001943  
 c. Bank Name : Bank of Ceylon-Corporate branch
- Original/valid cash deposit slip should be submitted with the Bid 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 table. Bid Securities shall be valid up to 27.03.2024
9. Bids shall be valid up to 28.02.2024.
10. Bids shall be delivered in duplicate to the Chairman, Road Development Authority Procurement Committee, C/o Director General, Road Development Authority, 1<sup>st</sup> Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla on or before 14:00 hrs on 29.11.2023. Late bids will be rejected. Bids will be opened soon after the closing, in the presence of the bidder's representatives who choose to attend.

**The Chairman,**

**Road Development Authority Procurement Committee**  
**Road Development Authority,**  
**First Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla.**

## **Section - 4**

### **Form of Bid and Qualification Information**

*Only for reference*

## FORM OF BID

**BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA  
HABARANA THIRUKKONDIYADIMADU ROAD  
UNDER CONTRACT NO: RDA/DC/NCP/GOSL/2023/01**

**To:** Road Development Authority,

Gentlemen,

1. Having examined the Standard Bidding Document-Procurement of Works (ICTAD/SBD/01-Second Edition January 2007 with Addendum of SBD/01 issued in October 2009 by ICTAD) along with the Bidding Data, Contract Data, Specifications, Drawings and Bill of Quantities and addenda Nos..... 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, Bill of Quantities and addenda Nos..... for the sum of Sri Lankan Rupees\*.....  
.....  
.....  
..... (SLRs. \*.....) (The bid price shall include physical & Price Contingencies and provisional sums but excluding VAT) or such other sums as may be ascertained in accordance with the said Conditions.
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 stipulated in the Contract Data, 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 with in the date specified in ITB clause 15.1 or any extended period to which we may agree and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
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.

Dated this ..... day of .....2023 in the capacity of .....duly authorized to sign tenders for and on behalf of .....

Name : .....(IN BLOCK CAPITALS)

Signature : .....

Designation : .....

Address : .....

Witness : 1.Name..... Signature .....

2.Name ..... Signature .....

\*The amount inserted here should not include the VAT component.

**\*\*Bid signed by a person other than the authorized person shall be as non-responsive**

## Qualification Information

<b>CIDA Registration</b>	Please attach photo copy of Original Documents (as annex -01)
Registration Number	
Grade & Speciality	
Expiry Date	
<b>VAT Registration Number</b>	(Attach as Annex 02)
<b>Construction Program</b>	(Attach as annex 11)
<b>Legal Status</b> (Please attach photo copy of original documents as annex)	(Attach as Annex 03)
<b>Authentication of Signatory</b>	(Attach original with form of bid & a photo copy as annex -04)
<b>Value Of Construction works performed</b> (Attach copy of Audited Financial Report)	(Attach as Annex 05)
Year 2022/2023	
Year 2021/2022	
Year 2020/2021	
Year 2019/2020	
Year 2018/2019	

## Details of Contract works in hand

(Attach as annex 06)

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)	Expected date of completion
<b>Highways*</b>					
<b>Bridges*</b>					
<b>Buildings*</b>					
<b>Irrigation*</b>					
<b>#</b>					
<b>Total</b>					

\* Add additional rows to include all the current projects if needed

# Provide additional speciality, to include all the current projects

**Note – The bidders who do not provide all contract commitment shall be treated as non-responsive according to the clause 3.3 of ITB**

## Financial Data

As per Latest Audited Financial Statement

1	Current Assets	
2	Current Liabilities	
3	Working Capital (1-2)	
4	Value of Outstanding work in hand	
5	Line of Credit **	
*6	Available Liquid Asset {3 - (0.1) x 4+5}	

\* This amount shall be not less than the amount given in clause 4.4 of ITB

\*\* Line of credit if provided shall strictly be as per the form given in Section -9. (Attach as annex 07)

Note : Available Working Capital of bidder should be equal or greater than 50% of minimum amount of the Liquid Asset (i.e. **Rs. 13.5 million**). Line of Credit shall be provided only to satisfy the balance amount of the required amount of the Liquid Asset.

### Similar Work Experience, Construction Equipment Proposed and Qualification & Experience of Key staff

<p><b>Similar work completed in last 05 years</b> ( Attach LOA, Completion Certificate, documents to confirming similarity of work)</p>	<p>Value..... Year..... Employer ..... Completed Date ..... Description of work ..... <span style="float: right;">(Attach as annex-08)</span></p>
<p><b>Major Items of Construction Equipment Proposed</b> (Attach as annex-09)</p>	<p>1. Type.....Capacity..... 2. Type.....Capacity..... 3. Type.....Capacity..... 4. Type.....Capacity..... 5. Type.....Capacity.....</p>
<p><b>Qualification and Experience of Key staff to be attached to the project</b> Attach details of key personal CVs. Separately, proposed to be at site for supervision. (Attach as annex-10)</p>	<p>Technical 1. 2. 3. Managerial 1 2 3</p>

### Details of Sub-Contractors

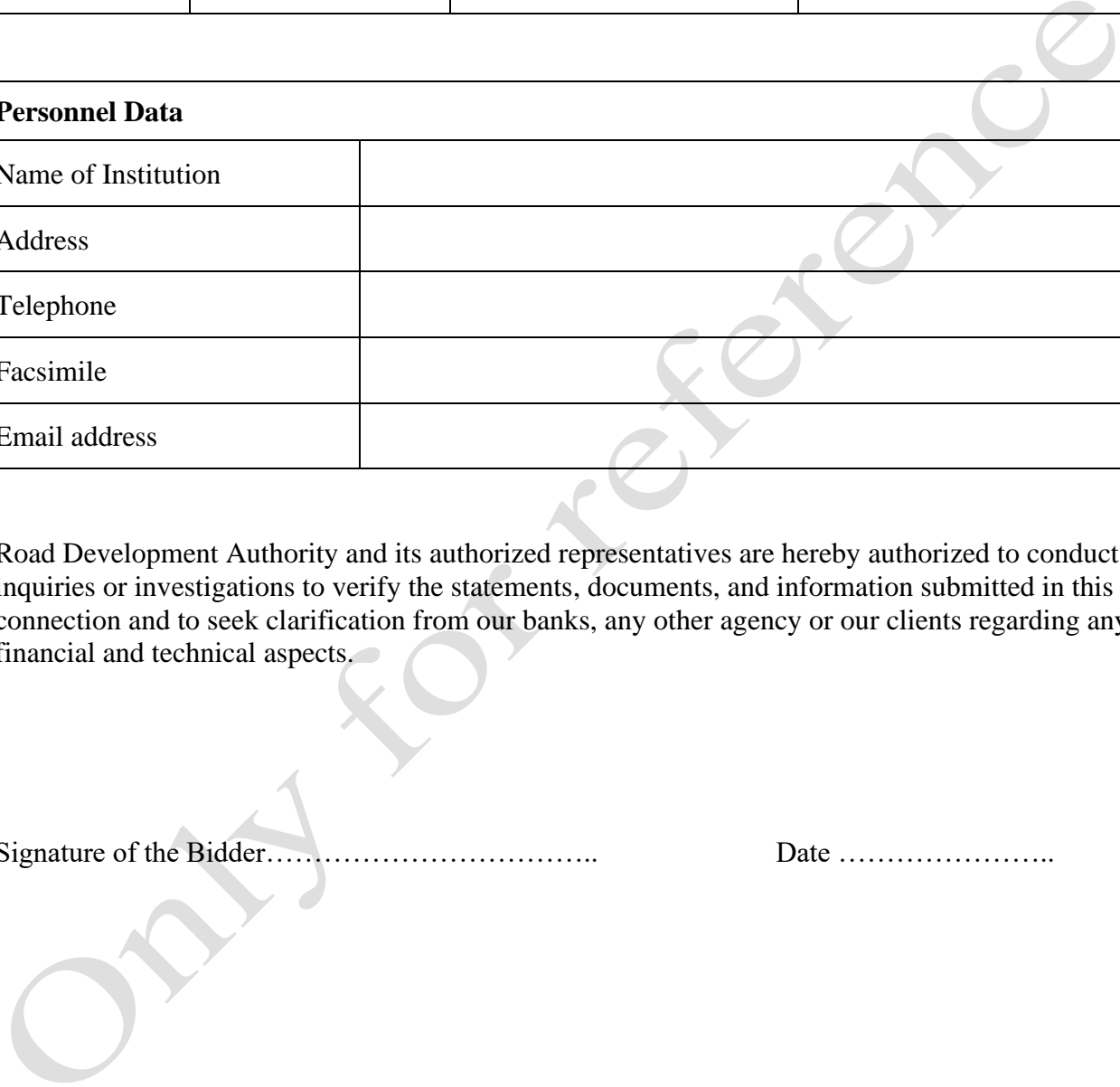
Section of work	Approximate value	Name(s) & Address (es) of sub-contractors	Description & location of similar works previously executed

<b>Personnel Data</b>	
Name of Institution	
Address	
Telephone	
Facsimile	
Email address	

Road Development Authority and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in this connection and to seek clarification from our banks, any other agency or our clients regarding any financial and technical aspects.

Signature of the Bidder.....

Date .....



## **Section - 5**

### **Bidding Data and Contract Data**

Only for reference



## **BIDDING DATA**

### **Clause 1, Scope of Bid**

#### **Clause 1.1**

- a) Employer is the Road Development Authority established by the Act No.73 of 1981.
- b) Address of the Employer is: *Road Development Authority  
1<sup>st</sup> Floor, "Maganeguma Mahamedura",  
216, Denzil Kobbekaduwa Mawatha, Battaramulla.*

The Scope of the Work is **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD**

The work consists of removal of existing structure, construction of substructure, superstructure & approaches

**The Site is located in Polonnaruwa district.**

#### **Clause 1.2**

Time for completion is 273 **Days** from the Start Date:

#### **Clause 1.3**

- a) The Bidding Documents shall be inspect from the RDA web site [ [www.rda.gov.lk](http://www.rda.gov.lk) ] from 06.11. 2023
- b) A complete set of Bidding Documents in English language shall be purchased by interested bidders via email on submission of a written application and valid cash deposit slip of non refundable tender fee (contract number & name of the Bidder should be indicated on the cash deposit slip) to the Director (Construction), RDA, via email from 06.11.2023 until 28.11.2023 during 09:00 hrs to 15:00 hrs.

The e-mail address is **construction.rda@gmail.com**

Non refundable tender fee Rs 14,375.00 (with VAT) for the bidding document can be paid by depositing cash to the following account

Account name : Director General –RDA  
Account number : 0000001943  
Bank Name : Bank of Ceylon-Corporate branch

Original/valid cash deposit slip should be submitted with the Bid 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.

### **Clause 2, Source of Funds**

#### **Clause 2.1**

Funded by Government of Sri Lanka (GOSL)

### **Clause 3, Ethics, Fraud and Corruption**

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.

### **Clause 4, Qualification of the Bidder**

#### **Clause 4.2**

The bidder shall be currently registered with the Institute for Construction Industry Development Authority (CIDA) in C-03 and C-04 **grades in Bridges specialty.**

#### **Clause 4.3** Bidder shall provide in:

- CIDA registration particulars

Registration number  
Specialty & Grade  
Expiry Date

- VAT registration number.
- Legal status of the bidder (sole proprietor, Partnership, Company etc.)
- Authentication for signatory (written Power of Attorney)
- Audited Financial Statement for latest five years
- Evidence of adequacy of working capital for this contract (liquid assets & other)
- Experience in a work of similar nature and size in the last ten years
- Work in hand and expected completion date
- Qualification and experience of key site management and technical personnel proposed for the Contract
- Major items of construction equipment proposed to carry out the Contract
- Authority to seek references from the bidder's bankers;
- Total monetary Value of construction work performed for each of the last five years.
- The Method statement of the way the bidders proposed to carry out the work
- Construction Program with critical path and cash flow forecast.
- A description and value of work, which the bidder proposes to sub-contract, together with the name and address of the proposed sub-contractors

#### **Clause 4.4**

- Average annual volume of construction work performed during the last five years shall be at least **Rs. 122.0million**

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

$$AACT = \frac{\sum ACT_n}{5} \quad \text{where, } n = 1st \dots\dots\dots 5th \text{ year (last five years)}$$

**ACT<sub>n</sub> - Annual Construction Turnover of nth year (from the audited financial report)**

- The bidder should have, experience in the construction of at least one contract of a nature and complexity equivalent to the Works over the last 10 years (to comply with this requirement, works cited should be at least 70% completed), the value of which should be at least **Rs. 57.0million.**

Experience of subcontractors in respect of "Contract of similar size and nature" shall be accepted, only if the reference sub- contract was approved by the Employer. Also such bidder shall submit the sub –contracting agreement along with the Completion Certificate issued by the main contractor and an approval letter issued by the Employer confirming the

sub-contracting arrangement. Any bids that, not complying with this requirement shall be rejected.

- Liquid Assets and / or credit facilities required

Minimum Liquid Assets available shall be **Rs. 27.0 million**

Minimum Liquid Assets Available is calculated as follows:

$$X = (A - L) - 0.1 W + C \quad \text{where;}$$

X = Minimum 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 given in Section 9

C = A project specific revolving line of credit given by a bank used by Form given in Section 9

**Note : Available Working Capital of bidder should be equal or greater than 50% of minimum amount of the Liquid Asset (i.e. Rs. 13.5 million). Line of Credit shall be provided only to satisfy the balance amount of the required amount of the Liquid Asset.**

Any Bidder who does not have the minimum liquid assets calculated on the above basis, required under Clause 4.4 shall be treated as non responsive.

Any bid which has to be supported by a project specific revolving line of credit, to meet the requirement of the Clause 4.4 but does not provide it strictly according to Form given in Section 9 shall be treated as non responsive.

The bidder shall submit an affidavit that he has declared all his other contractual commitments – specimen form attached in Section 9. But does not provide all current contract commitment shall be treated as non responsive according to the clause 3.3 of ITB No Conditional Line of Credit will be accepted and any letter of line of credit which has deviated from the specimen format, shall be considered as non responsive.

### C. PREPARATION OF BID

**Clause 9.1** Employer's address for the purpose of clarification is:

- a. Director (Construction), Road Development Authority, 3<sup>rd</sup> Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla.  
T: 011 – 2864388, Fax No. 011 – 2861821
- b. Provincial/ Project Director (NCP),  
Road Development Authority,  
Anuradhapura

**Clause 11.1** The language of the Bid shall be English.

#### **Clause 13.3**

The bid price shall include Physical Contingency, Price Contingencies and Provisional sums.

VAT component shall **not** be included in the rates. The amount written in the Form of Bid shall be without VAT. However, VAT component shall be shown separately at the end of the BOQ.

#### **Clause 13.4**

The Contract is **subjected** to price adjustment in accordance with Clause 47 of the Conditions of Contract.

#### **Clause 15.1**

The bid shall be valid up to 28.02.2024

#### **Clause 16.1**

Bid shall include a Bid Security using the form included in Section 9.

#### **Clause 16.2**

Bid Security shall be:

- For an amount of **Rs. 1,200,000.00**
- Valid until 27.03.2024
- Issued by an agency acceptable to the Employer using the form for bid security (unconditional guarantee) included in Section 9 – Standard Forms.
- Any bond or security issued by ABC Insurance Company Limited is not acceptable.

#### **Clause 17.0**

Pre-bid meeting will be held at the office of the Provincial Director (North Central Province), Road Development Authority, Anuradhapura at 10.00 a.m. on 16.11.2023. Site visit will be arranged if necessary.

## **D: SUBMISSION OF BID**

### **Clause 19.2 (a)**

The Employer's Address for the purpose of bid submission is -

*Chairman, RDA Procurement Committee  
C/o Director General, Road Development Authority,  
1<sup>st</sup> Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha,  
Battaramulla*

### **Clause 19.2 (b)**

The name of the Contract is '**BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD**',  
UNDER Contract No: **RDA/DC/NCP/GOSL/2023/01**

### **Clause 20.1**

The deadline for submission of bids shall be 2.00 p.m. on 29.11.2023.

## **E : BID OPENING AND EVALUATION**

Add new Clause

### **Clause 29.6**

To ensure that the bids are not unrealistic, following criteria shall be adopted;

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

### **Clause 29.7 State Owned Enterprises Preferences**

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

## **F: AWARD OF CONTRACT**

### **Clause 34.1**

The Standard Form of Performance Security acceptable to the Employer shall be a Bank Guarantee from a reputed Bank operating in Sri Lanka and accepted by the Treasury for issue of Guarantees or CGF. The amount of Performance Security is 5% (Five percent) of the Initial Contract Price subjected to Public Finance Circular no. 03/2020 (i) (paragraph 3.1.V) dated 11.01.2021. The Format of the Performance security shall be strictly in accordance with the specific format given in Standard Forms Section 2. Any bond or security issued by Insurance Company Limited is not acceptable

### **Clause 36**

The Adjudicator proposed by the Employer is a member to be appointed by the Institution of Engineers, Sri Lanka (IESL)

Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case-to-case basis and shall be shared equally by the Contractor and the Employer.

## CONTRACT DATA

- 1.1 The Employer is the Road Development Authority established by the Act No 73 of 1981.  
Address: Road Development Authority, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

Name of Employer's Representative will be notified later

- 1.1 The Engineer for the Contract will be notified later

- 1.1 The Work consists of removal of existing structure, construction of substructure, superstructure & approaches.

The scope of the work is BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD'

**The Start Date shall be 14 calendar days from the receipt of the Letter of Acceptance.**

- 8.1 Schedule of other Contractors: Public Utility Agencies

- 9.1 Schedule of Key Personnel: (Directly involved in the project)

Minimum persons with qualifications and experience to be defined,

- |    |                         |  |
|----|-------------------------|--|
| a. | Technical               | Project Manager with B.Sc Civil Eng. & 10 years working experience in similar Nature.                |
| b. | Contract Administration | Technical Supervisors with 7 years' experience,<br>Quantity Surveyor with 3 years working experience |

- 13.1 The minimum insurance covers shall be:

- The minimum cover for insurance of the Works, Temporary Works and of Plant and Materials is 110% of the Initial Contract price.
- The minimum for insurance of other property is Rs. 1 Million per occurrence with the third party, number of occurrences unlimited.

The minimum cover for personal injury or death,

- For the Contractor's workmen is Rs. 400,000/= per event
- Contractor's employees other than workmen is Rs. 550,000/= per event
- For third party and employees of the Employer and other persons engaged by the Employer is Rs. 550,000/= per event

For all the above the number of occurrence shall unlimited.

The insurance cover shall be valid from the Start Date to the end of the Defects Liability Period.

- 14.1 Information from the Site investigation, if so applicable and available, is shown on the Drawings.

- 17.1 The Intended Completion Date for the whole of Works shall be **273 Days** from the Start Date.

- 21.1 The Site Possession Date shall be within 07 Calendar days from the date of Letter of Acceptance.

- 27.1 The Contractor shall submit a Programme for the Works within **28** Calendar days of the Letter of Acceptance.

Contractor shall work only during normal working days unless otherwise agreed with the Engineer or in unusual circumstances where the safety of the public or work is in jeopardy. Holidays declared by the RDA shall be treated as non-working days.

27.3 One Month.

27.4 2% of the Initial Contract Price in Rupees.

35.1 Add with the following,  
The Defects Notification Period is 1 Year.

43.1 Replace the second sentence of Clause 43.1 “The Employer shall pay ..... date of each certificate” with the following.

“The Employer shall pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate.

47.1 Price Adjustment  
The contract is **subjected** to price adjustment.

<b>Input</b>	<b>Input Name</b>	<b>Percentage</b>
L3	Unskilled Labour	16.6%
P3	Fuel	13.2%
P2	Heavy Equipment	9.0%
M4	Cement	8.8%
M13	Steel Reinforcement	7.5%
M7	metal	7.3%
L2	Semi Skilled Labour	5.5%
P1	Small Equipment	5.5%
M41	Pre stressed Bridge beams	4.9%
L1	Skilled Labour	3.2%
M8	Sand	2.7%
M30	Bitumen	2.6%
M43	Precast Items for Bridges & Roads	1.8%
M21	Formwork Timber	1.4%
		90.0%

48.1 The retention from each payment shall be 10% percent of the certified work done.

The limit of retention shall be 5 % of the Initial Contract Price.

49.1 The liquidated damages for the whole of the Works shall be **Rs.40,600.00** per Day.

The maximum amount of Liquidated Damages for the whole of the works shall be 10% (ten percent) of the Initial Contract Price.

51.1 Replace the Sub-clause 51.1 with the following: -

‘The Employer shall make advance payment to the Contractor in an amount equivalent to 20% of the Initial Contract Price less contingencies less Provisional Sums within 14 Days after furnishing of an unconditional guarantee in a form included in Section 2 (ITB) and by a bank acceptable to the Employer or from the Construction Guarantee Fund. The guarantee shall remain effective until the advance payment has

been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on the advance payment.

Advance Payment would be made in two equal instalments. The second Instalment would be paid only after establishing that the first instalment of the advance payment has been used exclusively for mobilization as per Cl. 51.2 and submission and approval of detailed construction programme with network analysis and resource scheduling.

Any bond or security issued by Insurance Company is not acceptable.

- 52.1 The Performance Security shall be 5% percent of the Initial Contract Price (subjected to Public Finance Circular no. 03/2020 (i) (paragraph 3.1.V)) and shall be issued by a Bank or CGF acceptable to the Employer.

Any bond or security issued by Insurance Company Limited is not acceptable.

- 58.1 As-Built Drawings shall be submitted to the Engineer within one month after the issuing of Certificate of Completion.

Add the annexure of additional requirements pertaining to the as built drawings to this sub clause

- 60.1 The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 25%

- 63 Clauses 63.2(b), 63.4, 63.5, 63.6 and 63.7 are not applicable.

- 63.3 Replace the text of Clause 63.3 with the following text: "The total sum paid to the Contractor shall include such amounts, for the work, supplies or services to plus an administrative charge of 10% on the invoiced cost will be paid to the Contractor for Provisional Sum of the Bill of Quantities."



## **120 AS BUILT DRAWINGS**

### **120.1 Description**

The work shall consist 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 AutoCAD drawing file 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 24" x 36" 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 be made 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.

## **Section - 6**

### **Specifications**

**Standard Specification**  
**Particular Specification**

Only for reference

## **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 Published in June 2009

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

Only for reference

## **Particular Specifications**

These Particular Specifications should be read in conjunction with the Standard Specifications for Construction and Maintenance of Roads and Bridges, ICTAD Publication No SCA/5, 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.

Only for reference

## **PRELIMINARIES & GENERAL**

### **P(001) MOBILIZATION AND 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 STATIONARY FOR THE ENGINEER**

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**

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

Item No	Description	Pay Unit
P (002)	Provide stationary for the Engineer	PS

### **P(003) ENGINEER'S STAFF**

The Contractor shall provide at all times during the period of the Contract, for the exclusive use of the Engineer, all such workmen as the Engineer may deem necessary for the carrying out of his duties in connection with the Contract.

The workmen shall be selected for their abilities and knowledge and so far as possible the same workmen shall be provided throughout the period of the Contract.

The following staff shall be provided by the Contractor for the assistance of the Engineer in his duties as instructed by the Engineer unless otherwise stated in the Bill of quantities.

- a. Office Aid
- b. Office watcher (2Nos)

Such staff shall be approved by the Engineer and shall be responsible to him, although they will be in the employ of the Contractor.

#### **Payment**

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

Item No.	Description	Pay Unit
P(003)	Engineer's Staff	Month

## **Section-7**

### **Bill of Quantities**

Only for reference

## **BILL OF QUANTITIES**

### **PREAMBLE**

1. The Bill of Quantities shall be read in conjunction with all other 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 by 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 all 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 manufacturers test certificates.

- xii The protection of mains and services, and cost of repairs in case of damage caused by the Contractor.
- xiii Pumping and dewatering; the protection of excavation faces.
- xiv The provision and maintenance of temporary diversions 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(excluding VAT) levies, first aid, welfare and safety requirements and all other overheads and costs 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 Bill 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 Bill of Quantities for work shall be deemed to have been included in the other prices and rates.

6. The Quantities given in the Bill 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.

The quantity for each Item of work executed by the Contractor in accordance with the Contract shall be measured net and no allowance will be made for waste, bulking, shrinkage decrease of volume due to compaction or the provision of working space.

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. The Units of measurement described in the Bill of Quantities are Metric Units. Abbreviations in the Bill of Quantities are as follows: -

hrs	-	Hours
km	-	Kilometre
m	-	Linear Metre
m <sup>2</sup> or sqm	-	Square Metre
m <sup>3</sup> or cum	-	Cubic Metre
nos.	-	Numbers
L.S	-	Lump Sum
P.S	-	Provisional Sum
nth.	-	Month
ltr.	-	Litre
kg.	-	Kilogramme
mt	-	Metric Tonne
mm.	-	Millimetre
wk.	-	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 Site (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:                      Self travelling: Actual travel time of and to place of stationing on the day of the work.

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

BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA  
THIRUKKONDIYADIMADU ROAD'  
CONTRACT NO RDA/DC/NCP/GOSL/2023/01

<i>Bill No</i>	<i>Description</i>	<i>Amounts / Rs</i>
<i>1</i>	<i>PRELIMINARY &amp; GENERAL</i>	
<i>2</i>	<i>REMOVAL OF EXISTING STRUCTURE, FOUNDATION &amp; SUBSTRUCTURE, SUPER STRUCTURE, MISCELLANEOUS STRUCTURE</i>	
<i>3</i>	<i>CONSTRUCTION APPROACHES</i>	
<i>4</i>	<i>DAY WORKS</i>	
<b>A</b>	<b>Sub Total-01</b>	
<b>PS</b>	<b>Provisional sums</b>	<b>2,500,000.00</b>
<b>B</b>	<b>Sub Total -02 (A-PS)</b> Provisional sum deducts form Sub Total -01	
<b>C</b>	Discount if any	Amount in words
		..... Amount in figures
<b>D</b>	<b>Sub Total 03 (B-C)</b>	
<b>PS</b>	<b>Provisional sums</b>	<b>2,500,000.00</b>
<b>E</b>	<b>Sub Total 04 (D+PS)</b>	
<b>F</b>	Allow for physical contingencies 10% (E*10%)	
<b>G</b>	Allow for price contingencies 5% (E*5%)	
<b>H</b>	<b>Bid Price (E+F+G) [Form of Bid price]</b>	
<b>I</b>	VAT (15%*H)	
<b>J</b>	<b>Bid Price with VAT (H+I)</b>	

Amount in words: \_\_\_\_\_

Name of Authorized Officer: \_\_\_\_\_

Signature: \_\_\_\_\_

**BILL NO. 01 - PRELIMINARY AND GENERAL**

<b>Item No.</b>	<b>Pay Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>
1	P(001)	Allow for mobilization & demobilization	Item	L.S.		
2	P(002)	Provide stationary for the Engineer's Office	Item	<b>P.S.</b>		<b>250,000.00</b>
3	P(003)	Engineer's Staff				
		1) Office Aide	9	Month		
		2) Office Watcher (02 Nos.)	18	Month		
4	103(1)	Allow for safety of road users including barricading lighting, watching, traffic controlling, providing temporary sign boards & maintain existing road.	9	Month		
5	118(1)	Provision of project name boards as directed by the Engineer	2	Nos.		
6	119(1)	Provide all necessary insurance.	Item	L.S.		
7	119(2)	Provides all bonds & securities	Item	L.S.		
		<b>SUMMARY OF BILL NO. 01</b>				

**BILL NO-02**

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
		<b><u>A. REMOVAL OF EXISTING STRUCTURES</u></b>				
A.1	202(1b)	Removal and disposal of parts of existing bridge as and when necessary for the construction of the new bridge inclusive of necessary repairs to existing bridge in order to maintain free flow of traffic.	Item	P.S.		1,500,000.00
		<b>Sub total-A</b>				
		<b><u>B. FOUNDATION &amp; SUBSTRUCTURE</u></b>				
		<b><u>Abutment &amp; Wingwall</u></b>				
		<u>Clearing &amp; Grubbing</u>				
B.1	201(1)	Clearing & Grubbing	59.65	m <sup>2</sup>		
		<u>Excavation &amp; Backfill</u>				
B.2	302(1)	Excavation in unclassified soil and backfill for abutments, and wingwalls.	259.47	m <sup>3</sup>		
B.3	302(4)	Excavation in hard rock.	10.00	m <sup>3</sup>		
B.4	302(10)	Construction of necessary cofferdams cribs sheeting, shoring and bracing and their subsequent removal.	Item	L.S.		
B.5	302(11)	Dewatering	Item	L.S.		
		<u>Concrete For Structures</u>				
B.6	1001(1d)	Class A concrete of Grade 25 (20) in foundation slabs of abutments & wingwalls.	20.81	m <sup>3</sup>		
B.7	1001(2a)	Class B concrete nominal mix 1:3:6 (40) in abutments & wingwalls.	98.42	m <sup>3</sup>		
B.8	1001(1c)	Class A concrete of Grade 25(20) in capping beams, ballast walls, curtain walls, bearing pads and approach slabs.	13.00	m <sup>3</sup>		
		<u>Formwork</u>				
B.9	1008(2)	Rough finish formwork for foundation slabs of abutments &	17.88	m <sup>2</sup>		

		wingwalls.				
B.10	1008(1a)	Smooth finish formwork for abutments & wingwalls	143.28	m <sup>2</sup>		
B.11	1008(1b)	Smooth finish formwork for abutment capping beams, ballast walls, curtain walls, bearing pads and approach slabs.	44.00	m <sup>2</sup>		
		<u>Reinforcement</u>				
B.12	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in foundation slabs of abutments and wingwalls.	1.26	M.T.		
B.13	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in abutment & wingwall junctions.	0.50	M.T.		
B.14	1002(1b)	Hot rolled mild steel bars of Grade 250 in bearing pads and approach slabs.	0.50	M.T.		
B.15	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in abutment capping beams, curtain walls, ballast walls, bearing pads and approach slabs.	1.40	M.T.		
		<u>Weep Holes</u>				
B.16	706(1)	Forming weep holes in abutments & wingwalls using 110mm dia. P.V.C. pipes and finished smooth with dripledge and surround complete as per drawing.	35.81	L.m.		
		<u>Drainage Backfill Material</u>				
B.17	705(1)	50-200mm. dry stone lining behind abutment & wingwalls as per drawing.	40.00	m <sup>3</sup>		
B.18	705(2)	75mm. thick 40mm. stone filter layer behind dry stone lining as per drawing.	5.50	m <sup>3</sup>		
B.19	705(3)	Clay puddled & laid behind abutments & wingwalls to form the impervious layer as per drawing.	8.50	m <sup>2</sup>		
		<u>Miscellaneous</u>				

B.20	1011B(1)	20mm. Dia. 1800mm long hot rolled mild steel dowels driven into bed rock for abutment and wingwalls supplied fixed and grouted as per drawing.	32	Nos.		
B.21	1011A(1)	16mm. Dia. 900mm long hot rolled mild steel dowels supplied driven into existing substructure at joint as per drawing.	12	Nos.		
		<b>Sub total-B</b>				
		<b><u>C. SUPER STRUCTURE</u></b>				
		-				
		<u>Concrete For Structures</u>				
C.1	1001(1a)	Infiller concrete of Class A Grade 40(20) between beams in bridge deck inclusive of end make up, screed and camber.	34.00	m <sup>3</sup>		
C.2	1001(1c)	Class A concrete of Grade 25(20) in footwalks & footwalk ramps.	19.00	m <sup>3</sup>		
		<u>Formwork</u>				
C.3	1008(1b)	Smooth finish formwork on sides for deck & foot walk concreting.	35.00	m <sup>2</sup>		
		<u>Reinforcement</u>				
C.4	1002(1b)	Hot rolled mild steel bars of Grade 250 in deck, tie rods of deck & foot walks.	0.90	M.T.		
C.5	1002(1a)	Cold worked deformed high yield steel bars Grade 460 in deck & foot walks.	1.50	M.T.		
		<u>Prestressed Concrete</u>				
C.6	1003(1)	Pre-tensioned precast concrete beams of cast length 15.42m supplied as per drawing No. T/B/502-A.	9	Nos.		
C.7	1003(2)	Pre-tensioned precast concrete beams launched into position as per drawing.	9	Nos.		
		<u>Railings</u>				
		-				
C.8	1018(1)	Precast reinforced concrete railing & uprights in Class A Grade 25(20) concrete inclusive of light reinforcement & mould as per drawing No. T/B/102 A & B.	38.00	L.m.		

C.9	1019(1)	End pillasters in Class A concrete of Grade 25(20) with foundation type II as per drawing No. T/B/106 Rev. 1	4	Nos.		
		<u>Concrete Kerbs</u>				
C.10	807(1)	Precast kerb in Class B Grade 25(20) concrete with light reinforcement & mould as per drawing No. T/B/512.	53.00	L.m.		
C.11	807(4)	Lower kerbs in Class B Grade 20(14) concrete cast insitu as per drawing.	32.00	L.m.		
		<u>Expansion joints</u>				
C.12	1009(1)	Supplying and fixing of mild steel angle iron & hard rubber expansion joint as per drawing No. T/B/107 - Rev.1.	11.00	L.m.		
		<u>Bridge Bearings</u>				
C.13	1010(2)	75x12mm. hard rubber bearing pads supplied & laid over capping beam and corbel for approach slab as per drawing.	18.00	L.m.		
		<u>Miscellaneous</u>				
C.14	1012(1)	20mm Dia. 200mm long stainless steel dowels supplied fixed and grouted at fixed ends as per drawing.	6	Nos.		
C.15	1011(1)	25mm Dia. 200mm long hot rolled mild steel dowels supplied fixed and grouted for the approach slab as per drawing.	18	Nos.		
C.16	1013(1)	Bituminous sealing felt under beams at ends to prevent grout leak on to capping beam as per drawing.	11.00	L.m.		
C.17	1014(1)	Bituminous sealing felt under approach slabs at capping beam ends to prevent bitumen running on capping beam as per drawing.	8.00	L.m.		
C.18	1015(1b)	225mm. dia. Polythene displacers supplied and filled with saw dust or similar light material in deck as per drawing.	98.00	L.m.		
C.19	1016(1b)	110mm. dia. P.V.C. service duct fixed through deck as per drawing.	66.00	L.m.		

C.20	1016(1c)	Service duct of size 220x450mm. formed in deck as per drawing.	22.00	L.m.		
C.21	1017(1a)	500x450x75mm. thick cover slabs for service ducts in Class B Grade 25(20) concrete inclusive of light reinforcement and smooth shuttering provided as per drawing.	50	Nos.		
C.22	806(4)	450x450x50mm. thick <b>paving slabs</b> in Class B Grade 25(20) concrete inclusive of light reinforcement and smooth shuttering provided as per drawing.	20.00	m <sup>2</sup>		
C.23	1020(1a)	110mm. dia. P.V.C. rain water outlets supplied and fixed through deck as per drawing.	6	Nos.		
C.24	1020(1c)	50mm. dia. P.V.C. drain pipes supplied and fixed through deck as per drawing.	6	Nos.		
C.25	1020(1e)	75mm. dia. P.V.C. drain pipes through foot walk supplied and fixed as per drawing.	6	Nos.		
C.26	812(1)	12 m high steel lamp post with <b>single arm bracket</b> , supplied & fixed as per drawing. (Drg. No. T/0041/B) This includes installation of electric cables, fixing of lamps and other necessary appliances.	2	Nos.		
C.27	1403(7)	Supply & application of weather seal enamel paint on sides of bridge deck, end pilasters, uprights & railing etc. as specified by the Engineer.	125.00	m <sup>2</sup>		
		<u>Tack Coat</u>				
C.28	502(2)	Medium curing cut back bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS-1h tack coat applied at the rate of 0.5 litres/m <sup>2</sup> to concrete deck and approach slab surface.	160.00	m <sup>2</sup>		
		<u>Asphaltic Concrete Surfacing</u>				
C.29	506(2)	Asphaltic Concrete Surfacing compacted to a thickness of 50mm over the concrete deck & approach slab.	19.00	M.T.		
		<b>Sub Total -C</b>				



		<b>D. MISCELLANEOUS STRUCTURES</b>				
D.2	1023	Construction of 2 Nos. reinforced concrete staircase to access underneath of the bridge.	Item	<b>P.S.</b>		<b>250,000.00</b>
		<b>Sub Total-D</b>				

<b><u>BILL NO 02</u></b>						
A. Removal of Existing Structures						
B. Foundations & Sub Structures						
C. Super Structure						
D. Miscellaneous Structures						
<b>Carried forward to Summary</b>						

**BILL NO-03**

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
		<b><u>A. SITE CLEARING</u></b>				
		<u>Clearing &amp; Grubbing</u>				
A.1	201(1)	Clearing & Grubbing	600.00	m <sup>2</sup>		
		<u>Removal of Structures and Obstructions</u>				
A.2	202(6)	Removal of Structures and obstructions where necessary and transport reusable material to a place within 10.0Km. as directed and staking the same.	Item	<b>P.S.</b>		<b>500,000.00</b>
		<b>Sub total -A</b>				
		<b><u>B. EARTHWORKS</u></b>				
		<u>Roadway excavation</u>				
B.1	301(1)	Roadway excavation in unclassified soil.	186.64	m <sup>3</sup>		
		<u>Embankment Construction</u>				
B.2	304(2a)	Embankment Construction using borrow material of type I compacted in position.	100.00	m <sup>3</sup>		
B.3	304(3)	Trimming Levelling & Compacting of Original ground.	986.72	m <sup>2</sup>		
		<u>Shoulder Construction</u>				
B.4	409(1)	Shoulder construction using shoulder material and compacted in position.	160.00	m <sup>3</sup>		
		<u>Top Soiling</u>				
B.5	801(1)	Top soil supplied, piled & spread.	120.00	m <sup>3</sup>		
		<u>Grassing</u>				
B.6	802(4)	Solid sodding	800.00	m <sup>2</sup>		
		<u>Guard Stones</u>				
B.7	808(5)	Precast Concrete guard stones supplied and fixed as per Drawing.	8	Nos		
		<u>Rip Rap Protection</u>				
B.8	804(1)	Grouted rip rap filled with 1:3 cement mortar as per drawing.	20.00	m <sup>3</sup>		
		<b>Sub Total -B</b>				

<b>C. ROAD PAVEMENT</b>					
		<u>Soil Sub Base</u>			
C.1	401(1a)	Soil sub base type I material compacted in position.	168.33	m <sup>3</sup>	
		<u>Reconstruction of Existing Base</u>			
C.2	408(2a)	Scarifying existing surface as necessary.	900.00	m <sup>2</sup>	
		<u>Dense Graded Aggregate Base</u>			
C.3	405(1)	Dense graded aggregate base of nominal maximum size 50mm for existing carriageway and widening sections to a maximum thickness of 225mm as per drawing.	190.00	m <sup>3</sup>	
		<u>Prime Coat</u>			
C.4	501(5)	M.C. Cutback bitumen (20-45%) or MC30 or Bituminous emulsion of Grade CSS-1 or CSS 1h applied at the rate of 0.9 -1.5 litre per square meter over the finished dense grade aggregate base.	2,500.00	m <sup>2</sup>	
		<u>Tack coat</u>			
C.5	502(2a)	M.C. Cutback bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS 1h tack coat applied at the rate of 0.5 litre per square meter over the finished dense grade aggregate base before the application of asphaltic concrete binder course.	2,500.00	m <sup>2</sup>	
C.6	502(2b)	M.C. Cutback bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS 1h tack coat applied at the rate of 0.5 litre per sqr meter over the asphaltic concrete binder course before the application of asphaltic concrete surfacing.	2,960.00	m <sup>2</sup>	
		<u>Asphaltic Concrete Surfacing</u>			
C.7	506(2)	Asphaltic Concrete binder course compacted to a thickness of 50mm in position.	293.00	M.T.	
C.8	506(2)	Asphaltic Concrete Surfacing compacted to a thickness of 50mm in position.	345.00	M.T.	
		<u>Road Markings</u>			

C.9	810	Application of road markings as per specification.	135.00	m <sup>2</sup>		
		<b>Sub Total-C</b>				
		<b>BILL NO 03</b>				
		A. SITE CLEARING				
		B. EARTH WORK				
		C. ROAD PAVEMENT				
		<b>Carried forward to summary</b>				

**BILL NO-04 DAY WORKS**

All Quantities are Provisional

01. <b>LABOUR</b>					
No.	Grade of Staff	Qty	Unit	Unit Rate (8 hr/day)	Amount (Rs.)
1	Unskilled labour	10	Days		
2	Semi skilled labour	10	Days		
3	Skilled labour	5	Days		
4	Mechanic	2	Days		
5	Driver	3	Days		
6	Operator	5	Days		
7	Surveyor	1	Days		
	<b>Total</b>				

**2. EQUIPMENT**

The rates are exclusive of Driver, Operator or Attendant, but inclusive of fuel and Consumable stores.

No.	Description	Capacity	Qty	Unit	Rate Rs.	Amount Rs.
1	Poker vibrator	1 - 2 inches	10	Hrs.		
2	Tractor with Trailer	Any	12	Hrs.		
3	Wheel Loader	1.70 Cu.m	4	Hrs.		
4	Hand Rammers	60 kg	10	Hrs.		
5	Smooth Roller	8 - 10 Ton	8	Hrs.		
6	Concrete Mixer	1 - 2 cu.m	8	Hrs.		
7	Steel Wheel Roller self - Propelled Static	8 - 10 Ton	8	Hrs.		
8	Water pump	2 inch dia.	50	Hrs.		
9	Bitumen Distributor	750 Lts.	3	Hrs.		
10	Water Bowser	6000 Ltr.	10	Hrs.		
11	Backhoe loader	2 W.D	8	Hrs.		
12	Dump Truck	30 Ton	4	Hrs.		

13	Van or similar utility vehicle	above 10 seats	125	Km		
14	Tipper Truck (Inclusive of return trip)	7 Ton	125	Km		
15	Welding plant engine driven	--	20	Hrs.		
16	Extractor (sheet pile)	--	10	Hrs.		
17	Hammer (Vibro electric)	--	5	Hrs.		
18	Generator	7 - 10 KVA	5	Hrs.		
19	Compressor	750 CFM	10	Hrs.		
20	Hand held breaker demolition	Pneumatic	10	Days		
21	Mobile Crane	30 Tones	5	Hrs.		
22	Excavator (Crawler with breaker)	--	5	Hrs.		
	<b>Total</b>					

### 3. MATERIAL

Note : All items in this bill are Provisional

No.	Material	Qty	Unit	Rate	Amount
1	Cement ordinary (50 kg bag)	10	Nos.		
2	Aggregate (19 mm)	5	Cu.m.		
3	Aggregate (37.5 mm)	5	Cu.m.		
4	Sand	5	Cu.m.		
5	Bitumen 80/100	200	Liter		
6	Bituminous emulsion CRS-1	200	Liter		
7	Asphalt concrete - surfacing material - binder 60/70 bitumen at 4.7% of mix.	2.5	Mt.		
8	Aggregate Base Course (37.5 mm down graded)	5	Cu.m.		
9	Random Rubble (150-225 mm) (Excluding piling)	5	Cu.m.		
10	Reinforcement in bars Grade 250	0.25	Mt.		

11	Reinforcement in bars Grade 460	0.25	Mt.		
12	Timber Class II of Sri Lanka Timber Corporation or equivalent	2	Cu.m.		
13	Plywood (15 mm thick)	25	Sq.m.		
14	Diesel	80	Liter		
	<b>Total</b>				

<b>BILL NO-04 DAY WORKS</b>					
<b>01. Labour</b>					
<b>02. Equipment</b>					
<b>03. Material</b>					
<b>Total carried forward to summary</b>					

## **Section - 9**

### **Standard Bid Forms**

- \* Bid Security
- \* Affidavit for the Current Commitments
- \* Bank Letter Granting the 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's name, and address of issuing branch or office]*

**Beneficiary:** Director General, Road Development Authority, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

**Date:** .....*[insert (by issuing agency) date]*

**BID GUARANTEE No.:** .....*[insert (by issuing agency) number]*

We have been informed that .....*insert (by issuing agency) name of the Bidder*] ( hereinafter called "the Bidder") has submitted to you its bid dated ..... *[insert (by issuing agency) date]* (herein after called "the Bid") for the execution of **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD** under Contract No: **RDA/DC/NCP/GOSL/2023/01**

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we .....*[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of .....*[insert amount in figures]* .....*[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- 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 .....*(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

Signature and the Seal of the Guarantor:

Designation .....

Name of the Organization .....

Date: .....

Witness:

Name ..... NIC No ..... Signature .....

Name ..... NIC No ..... Signature .....

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

## FORM FOR AFFIDAVIT FOR THE CURRENT COMMITMENTS

Director General,  
Road Development Authority

In accordance with the Clause 4.4 of the Instructions to Bidders, I (We) declare that the outstanding Contract Commitments of (*Name of the Bidder (s)*) are as follows. I (We) further declare that all the outstanding contract commitments are listed below.

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)
<b>Highways*</b>				
<b>Bridges*</b>				
<b>Buildings*</b>				
<b>Irrigation*</b>				
<b>#</b>				
<b>Total</b>				

.....  
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 ..... [Place], on this ..... 2023 [date]

.....  
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 –The bidders who do not provide all contract commitment shall be treated as non responsive according to the clause 3.3 of ITB**

# FORM FROM THE BANK FOR GRANTING THE REVOLVING LINE OF CREDIT

[In Letterhead of the bank]

FROM : .....

TO : Director General  
Road Development Authority (RDA)  
1<sup>st</sup> Floor, "Maganeguma Mahamedura",  
216, Denzil Kobbekaduwa Mawatha,  
Battaramulla, Sri Lanka

SUB: Letter from the bank for providing a line of credit in favour of .....<sup>1</sup> in case of award to them of works for the Contract of **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD UNDER** Contract No: **RDA/DC/NCP/GOSL/2023/01**

Dear Sir,

We .....<sup>2</sup> bankers of .....<sup>3</sup> hereby agree to grant revolving line of credit for an amount of Sri Lanka Rupees ..... for the purpose of the execution of the Civil Work Contracts under the Contract of **BALANCE WORK OF WIDENING OF BRIDGE NO 45/5 ON MARADANKADAWALA HABARANA THIRUKKONDIYADIMADU ROAD** under Contract No: **RDA/DC/NCP/GOSL/2023/01** This revolving line of credit will be maintained until the works are taken over by the RDA.

**Signature and the Seal of the Bank:**

Name.....  
Designation .....  
Name of the Organization .....  
Date: .....

Witness:

Name ..... NIC No ..... Signature .....  
Name ..... NIC No ..... Signature .....

<sup>1</sup> Name of Beneficiary / Bidder  
<sup>2</sup> Name of Bank  
<sup>3</sup> Name of Beneficiary / Bidder

Note - Does not provide it strictly according to given Form shall be treated as non responsive Revolving Line of Credit

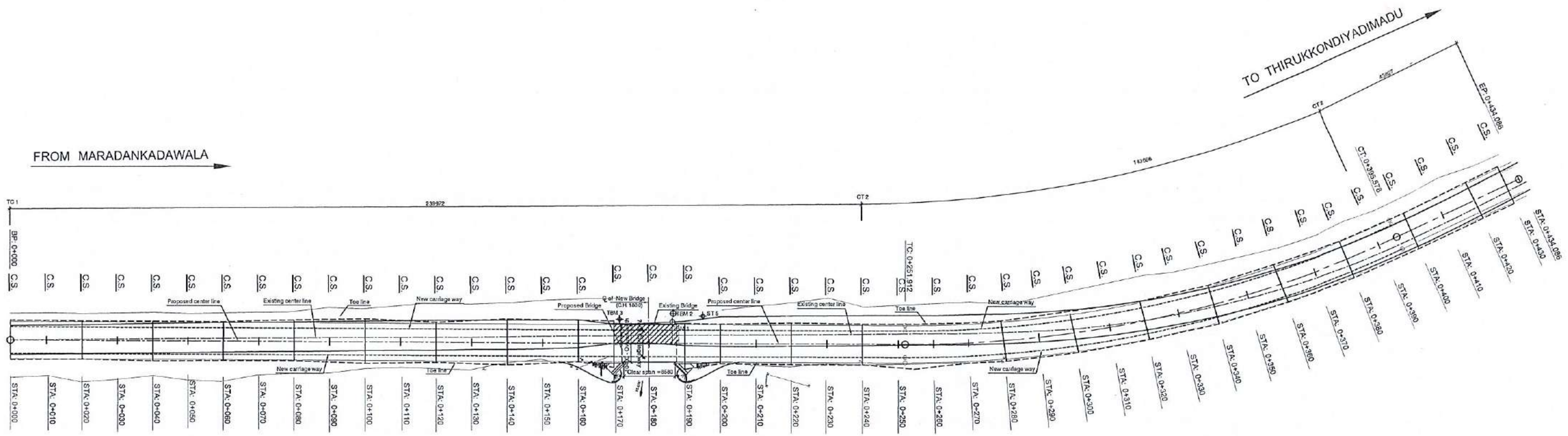
## **Section - 8**

### **Drawings**

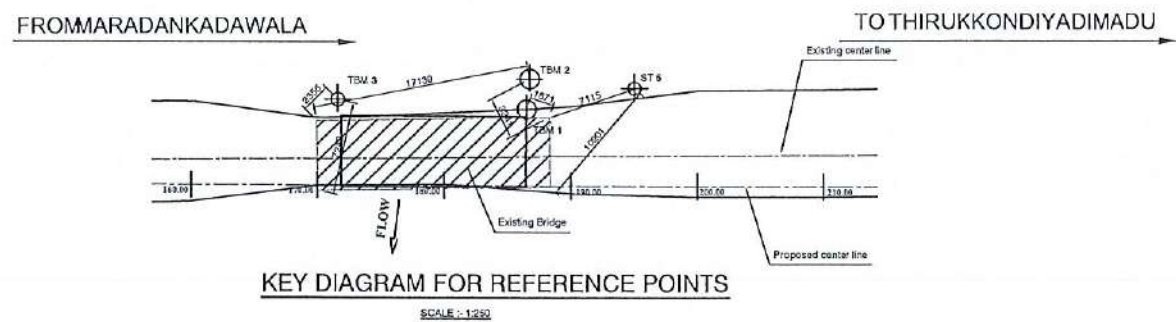
Only for reference

## Check List for Bidders

	ITB clause	Yes	Reference
<b>Form of Bid</b>			
<b>Completed?</b>	<b>18</b>		
<b>Signed?</b>	<b>18</b>		
<b>No of addendum issued (taken to form of Bid)</b>			
<b>Bid security</b>			
<b>Addressed to the Employer?</b>	<b>16</b>		
<b>Format as required?</b>	<b>16</b>		
<b>Issuing agency as specified?</b>	<b>16</b>		
<b>Amount as required?</b>	<b>16</b>		
<b>Validity 28 days beyond the validity of bid?</b>	<b>16</b>		
<b>Qualification information</b>			
<b>Copy of ICTAD Registration?</b> (Registration No, Grade, Specialty, Expiry Date)	<b>4</b>		
<b>Copy of VAT registration or a letter form Inland Revenue that the Bidder is not VAT registered?</b>	<b>4</b>		
<b>Authentication of for signature (Power of Attorney)?</b>	<b>4</b>		
<b>Certified Copy of Audited Financial Statements for the last five years?</b> (Construction turn over for last five years; Current assets and current liabilities for last year)	<b>4</b>		
<b>A letter from a <u>Bank</u> on the provision of credit facilities?</b>	<b>4</b>		
<b>The Affidavit For The Current Contractual Commitments?</b>	<b>4</b>		
<b>Construction Programme and Cash Flow Chart?</b>	<b>4</b>		
<b>Similar work completed in last 10 years</b>	<b>4</b>		
<b>Major items of construction equipment proposed</b>	<b>4</b>		
<b>Qualification and Experience of key staff</b>	<b>4</b>		
<b>Addendum</b>			
<b>Content of addendum (if any) taken in to account?</b>	<b>10</b>		
<b>Bid package</b>			
<b>All the documents given in ITB clause 12 enclosed in the original and copy?</b>	<b>12</b>		
<b>ITB clause 19 followed before sealing the bid package?</b>	<b>19</b>		



**SITE PLAN**  
Scale: 1:1000



**KEY DIAGRAM FOR REFERENCE POINTS**  
SCALE: 1:250

	NORTH	EAST	ELEVATION (m)
TBM 1	1000.9920	991.3810	99.850 m
TBM 2	1003.1770	992.3420	99.833 m
TBM 3	1008.2000	977.4200	99.836 m
ST 1	1000.6000	1000.6000	100.000 m

CHAINAGE(m)	CO-ORDINATES(m)	
	NORTHING	EASTING
0	1055.4090	812.9210
20	1048.0201	831.8391
40	1042.4313	850.7572
60	1035.9424	869.6753
80	1029.4535	888.5934
100	1022.9647	907.5115
120	1016.4758	946.4296
140	1009.9869	945.3477
160	1003.4981	964.2658
180	997.0092	983.1839
200	990.5203	1002.1020
220	984.0315	1021.0201
240	977.5426	1039.9382
260	971.0537	1058.8563
280	964.5648	1077.7744
300	958.0759	1096.6925
320	951.5870	1115.6106
340	945.0981	1134.5287
360	938.6092	1153.4468
380	932.1203	1172.3649
400	925.6314	1191.2830
420	919.1425	1210.2011
430	912.6536	1229.1192
434.086	906.1647	1248.0373

**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
*25/08/2023*

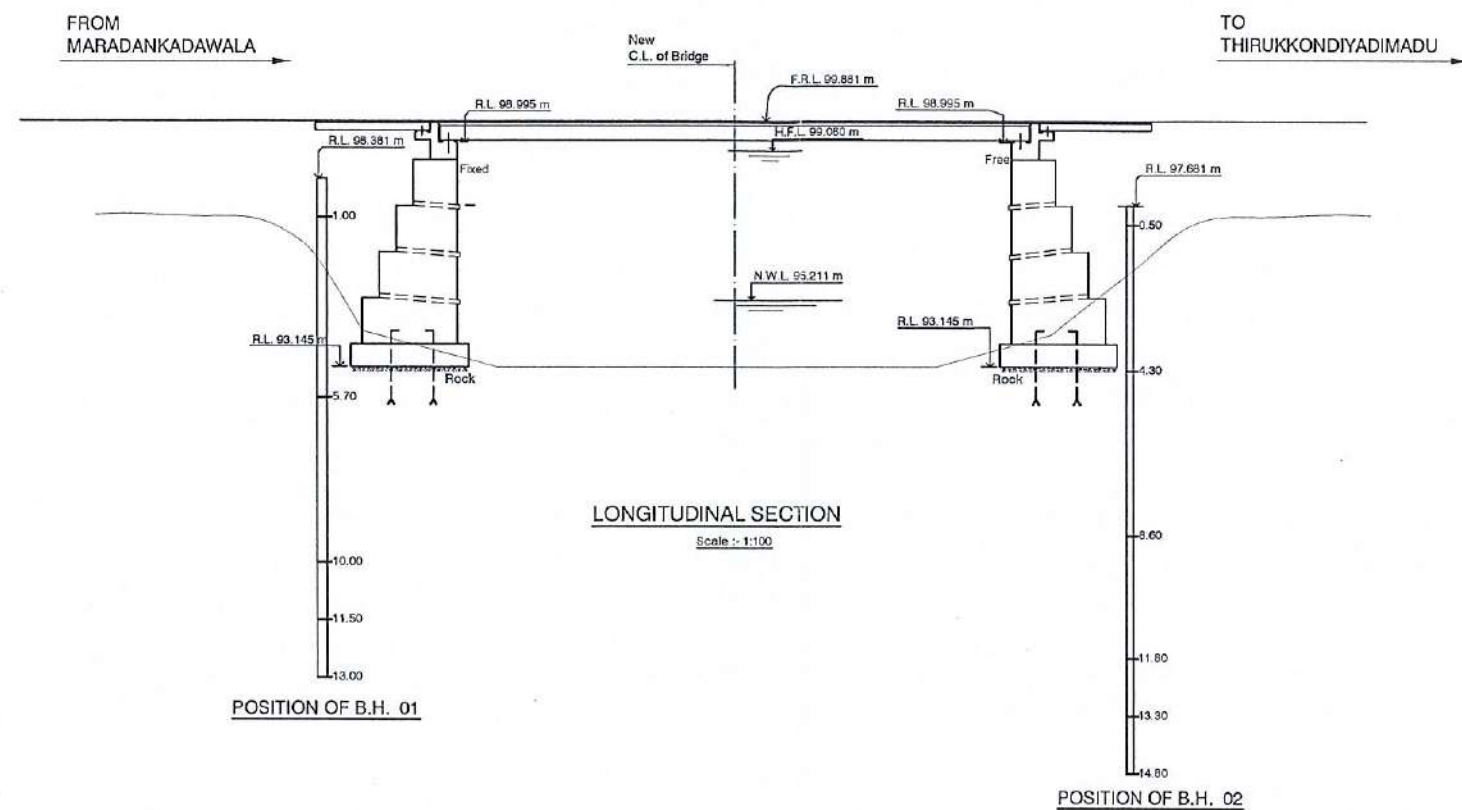
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

SITE PLAN

REV.	DESCRIPTION	BY	DATE

MINISTRY OF HIGHWAYS-SRI LANKA ROAD DEVELOPMENT AUTHORITY		BRIDGE DESIGNS OFFICE "MAGANEELMA MAHAMMEDURA" BATTARAMULLA
DESIGNED : <i>R.G.N. Tharanga</i> DRAWN : <i>A.D.H. Ganga</i> CHECKED : FILE NO. : <i>MCP-34</i> DRG. NO. NCP/B/1367/1	SENIOR ENGINEER - DESIGNS ADDITIONAL DIRECTOR - BRIDGE DESIGNS DATE: 8	
		DIRECTOR - ENGINEERING SERVICES ADDITIONAL DIRECTOR GENERAL (C/D) FOR DIRECTOR GENERAL





**BORE HOLE No. 1**

DATE OF BORING : 05.06.2018

R.L. ON TOP OF BORE HOLE : 98.391m

DEPTH IN METERS	DEPTH & THICKNESS IN METERS	S.P.T. VALUES
LEGEND		No. OF BLOWS
Clay sand (Blackish brown)	1.00	
Medium to fine Sand with clay (Yellowish Brown)	1.65 1.95	13
	3.15 3.45	40
	4.50 4.65	08/0 15m 1st 0.15 No further penetration
Weathered Rock	5.70	T.C.R - 35% R.C.D - 07% F.I - Highly fractured.
Weathered Rock	8.50	T.C.R - 63% R.C.D - Nil F.I - Highly fractured.
Bed Rock	10.00	T.C.R - 67% R.C.D - 20% F.I - Highly fractured.
Bed Rock	11.50	T.C.R - 63% R.C.D - 67% F.I - 6.
	13.00	

QWL 4.46

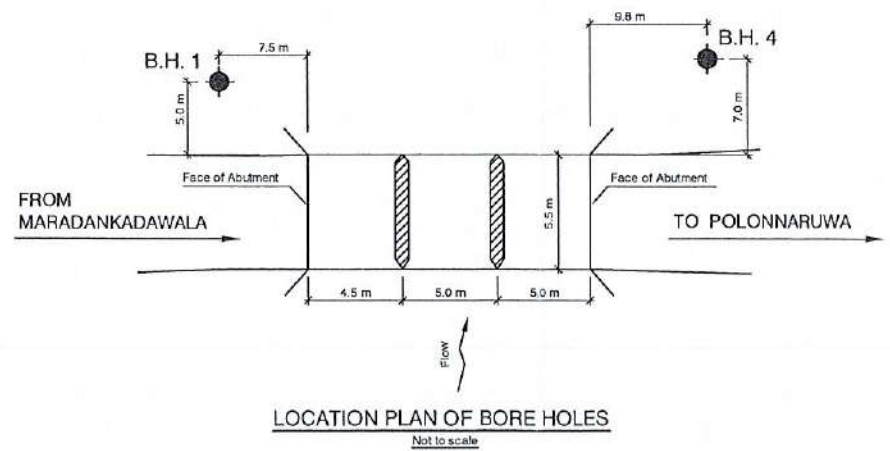
**BORE HOLE No. 2**

DATE OF BORING : 05.06.2018

R.L. ON TOP OF BORE HOLE : 97.681m

DEPTH IN METERS	DEPTH & THICKNESS IN METERS	S.P.T. VALUES
LEGEND		No. OF BLOWS
Clayey sand with little amount of gravel particles (Blackish brown)	0.50	
Coarse to medium sand with clay (Yellowish Brown)	1.65 1.95	13
	3.15 3.45	40
	4.50	Rebound
Weathered Rock	5.60	T.C.R - 28% R.C.D - Nil
Weathered Rock	8.60	T.C.R - 56% R.C.D - 10% F.I - Highly fractured.
Weathered Rock	11.80	T.C.R - 80% R.C.D - 20% F.I - Highly fractured.
Bed Rock	13.30	T.C.R - 80% R.C.D - 50% F.I - 05.
Bed Rock	14.80	UCS - 8800 psi

QWL 4.00



**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
05/08/2023

MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

BORE HOLE LOGS  
AND  
S.P.T. VALUES

REV.	DESCRIPTION	BY	DATE

MINISTRY OF HIGHWAYS-SRI LANKA  
ROAD DEVELOPMENT AUTHORITY

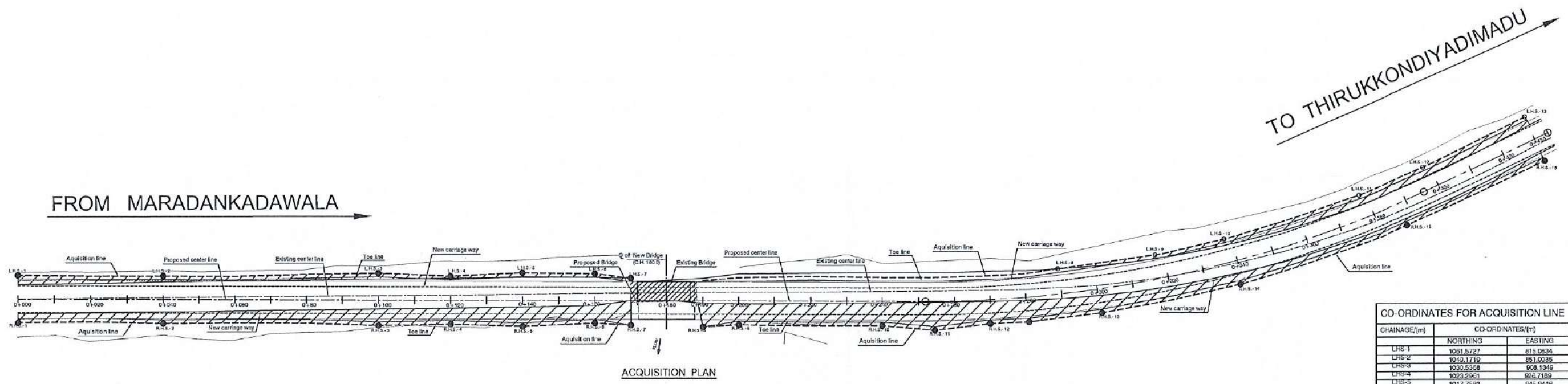
DESIGNED : B.C.N.Tharanga  
DRAWN : A.D.H.Canga  
CHECKED : Hemamali-DO  
FILE NO. : NCP-34  
DRG. NO. NCP/B/1367/1B

SENIOR ENGINEER - DESIGNS  
ADDITIONAL DIRECTOR - BRIDGE DESIGNS

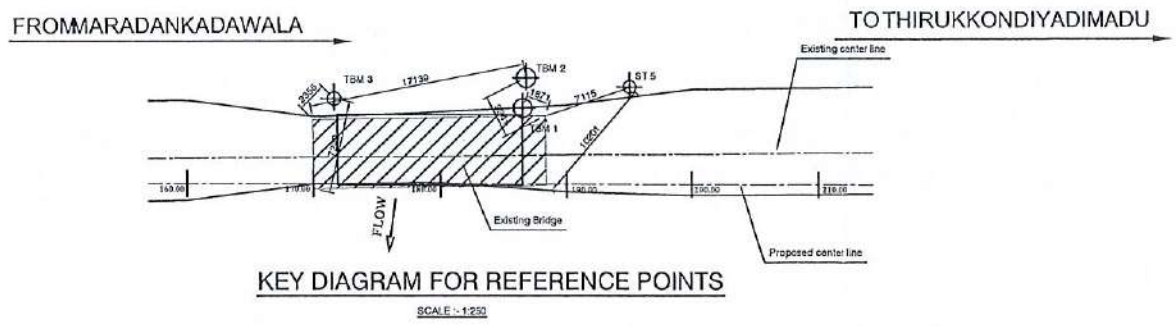
DATE: 8

BRIDGE DESIGNS OFFICE  
"MAGANEKUMA MAHAMEDURA"  
BATTARAMULLA

DIRECTOR - ENGINEERING SERVICES  
ADDITIONAL DIRECTOR GENERAL (C D)  
FOR DIRECTOR GENERAL



ACQUISITION PLAN



KEY DIAGRAM FOR REFERENCE POINTS  
SCALE: 1:250

CHAINAGE (m)	CO-ORDINATES (m)	
	NORTHING	EASTING
LRS-1	1061.5727	815.0634
LRS-2	1049.1719	851.0035
LRS-3	1030.5358	908.1349
LRS-4	1023.2961	926.7189
LRS-5	1017.7592	945.9446
LRS-6	1011.0685	964.8313
LRS-7	1005.6939	973.5268
LRS-8	970.9978	1055.1154
LRS-9	965.5445	1116.0266
LRS-10	963.6522	1135.6767
LRS-11	963.2716	1174.9075
LRS-12	964.7443	1194.6435
LRS-13	965.3638	1224.3196
RHS-1	1049.3390	810.8478
RHS-2	1038.7555	845.7291
RHS-3	1016.8944	903.4637
RHS-4	1010.7993	922.4641
RHS-5	1000.7372	941.2030
RHS-6	998.1908	960.3574
RHS-7	994.4171	969.7131
RHS-8	987.2003	983.3739
RHS-9	984.8705	998.0504
RHS-10	971.7242	1038.7756
RHS-11	965.8613	1049.4205
RHS-12	959.6455	1074.8782
RHS-13	955.4908	1094.8013
RHS-14	950.6650	1135.0708
RHS-15	950.2992	1175.7908
RHS-16	955.1051	1225.8820

POINT	CO-ORDINATES FOR REFERENCE POINT		
	NORTH	EAST	ELEVATION (m)
TBM 1	1000.9920	991.3810	994.95 m
TBM 2	1003.1770	992.3120	994.92 m
TBM 3	1004.3000	977.4220	994.92 m
ST 1	1006.0000	1000.0000	100.000 m

Total area to be Acquired = 1878.1391 m<sup>2</sup>

**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
*DATA*  
25/08/2023

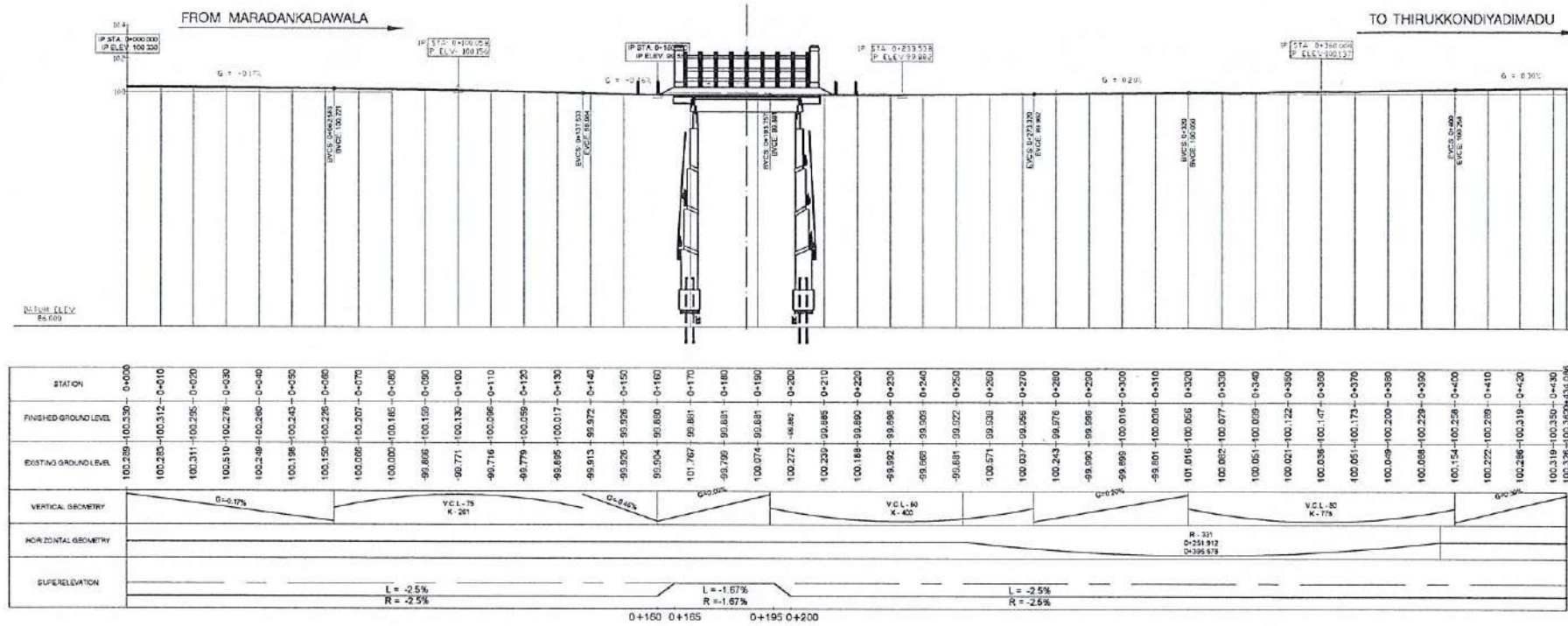
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

ACQUISITION PLAN

REV	DESCRIPTION	BY	DATE

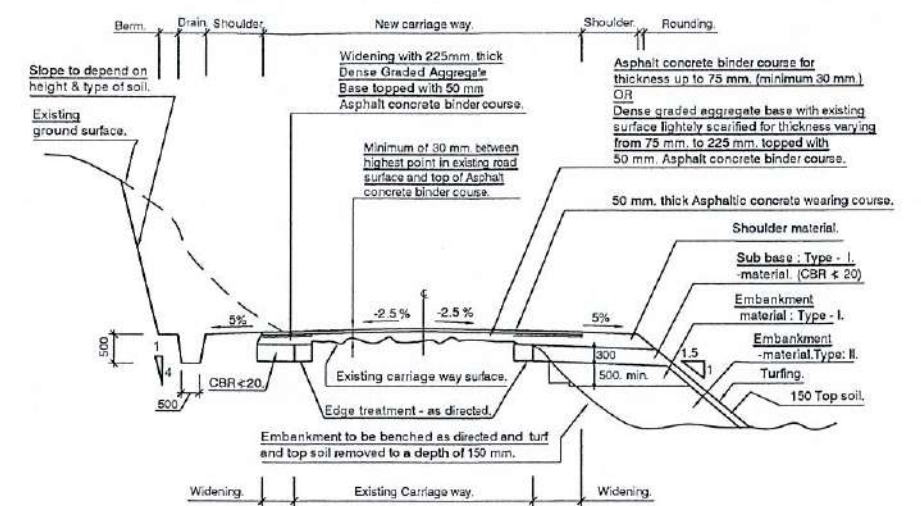
MINISTRY OF HIGHWAYS SRI LANKA ROAD DEVELOPMENT AUTHORITY		BRIDGE DESIGNS OFFICE 'MADANEKUMA MAHAMEDURA' BATTARAMULLA
DESIGNED : B.C.K.Thomson DRAWN : A.D.H.Ganga CHECKED : FILE NO. : MCP-34 DRG. NO. : NCP/B/1367/1A	SENIOR ENGINEER - DESIGNS ADDITIONAL DIRECTOR - BRIDGE DESIGNS DATE: 8	DIRECTOR - ENGINEERING SERVICES ADDITIONAL DIRECTOR GENERAL (C D) FOR DIRECTOR GENERAL





**LONGITUDINAL SECTION**

Vertical - 1:100  
Horizontal - 1:500

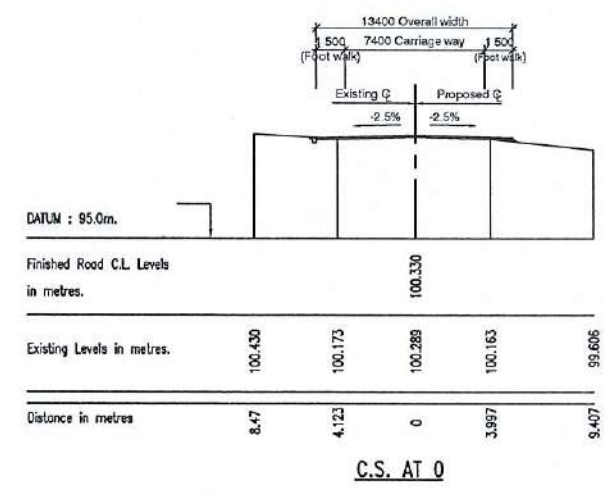


**NOTES:**

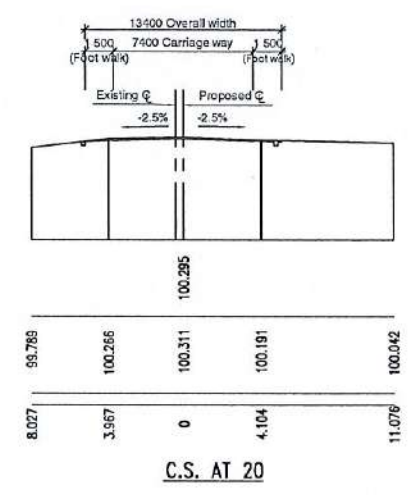
- For overlay thickness varying from 75-225 mm. use dense graded aggregate base with existing surface lightly scarified.
- For overlay thickness less than 75mm. use dense graded aggregate base of thickness 225 mm. with existing base scarified.
- Where the widened carriage way merges to the existing carriage way and the over lay is < 75 mm. Asphalt concrete binder course to be used with suitable overlap between the two bases with existing surface lightly scarified.

**TYPICAL ROAD SECTION WIDENING : CUTTING & FILLING.**

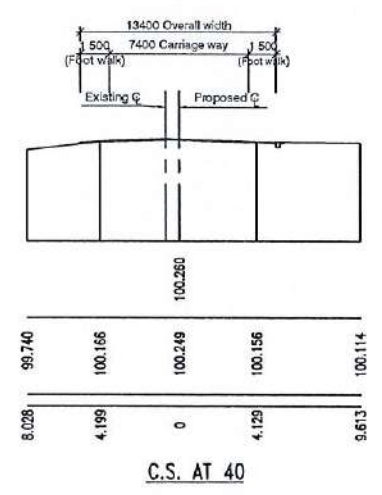
NOT TO SCALE



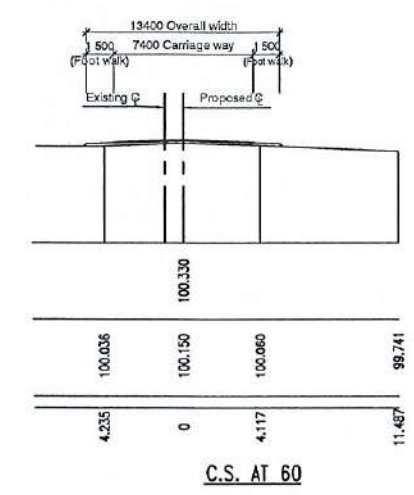
C.S. AT 0



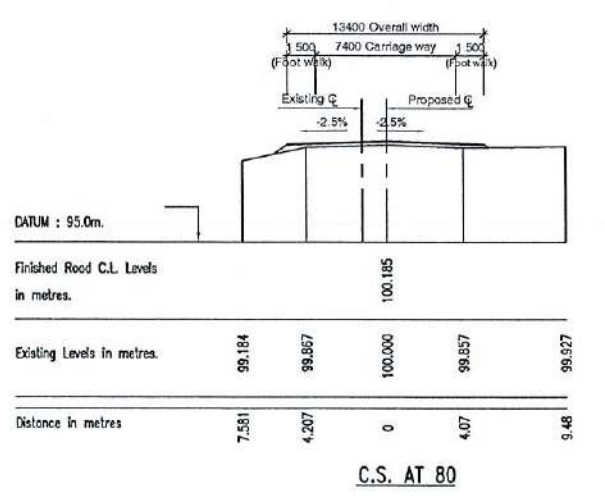
C.S. AT 20



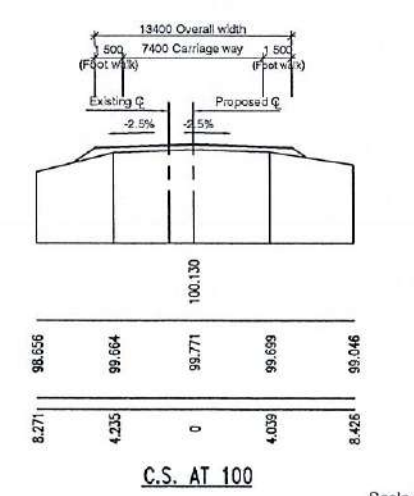
C.S. AT 40



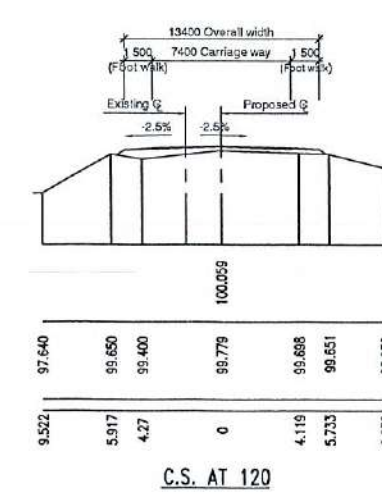
C.S. AT 60



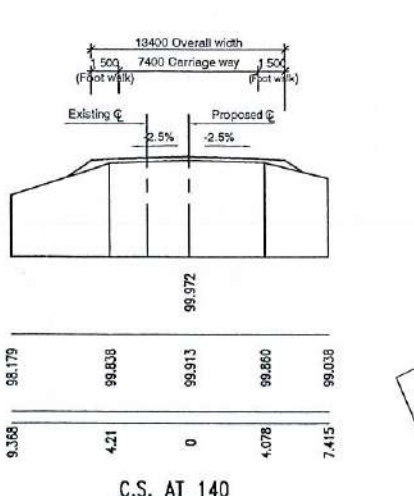
C.S. AT 80



C.S. AT 100



C.S. AT 120



C.S. AT 140

Scale : 1:200

**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
25/08/2022

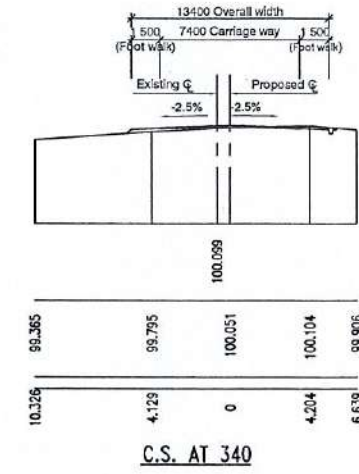
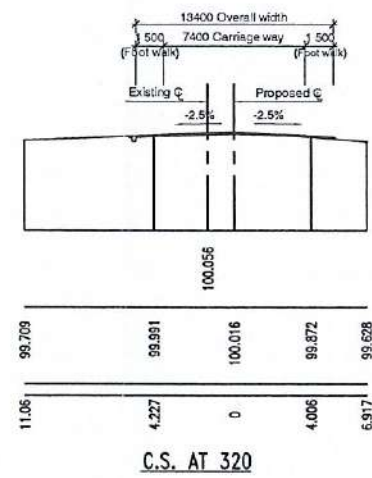
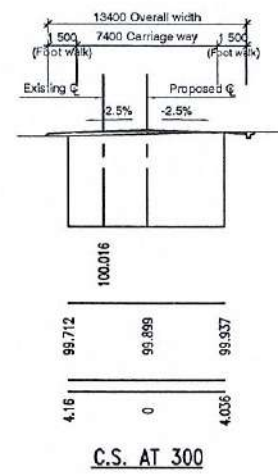
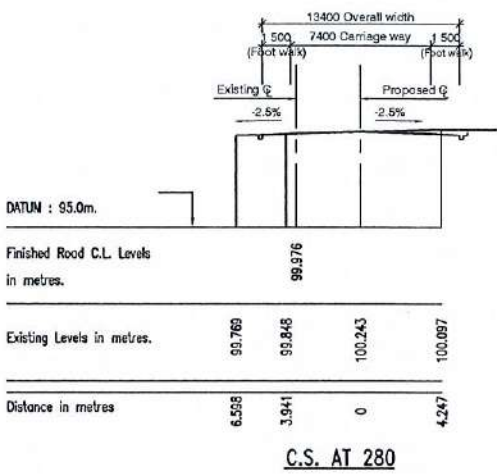
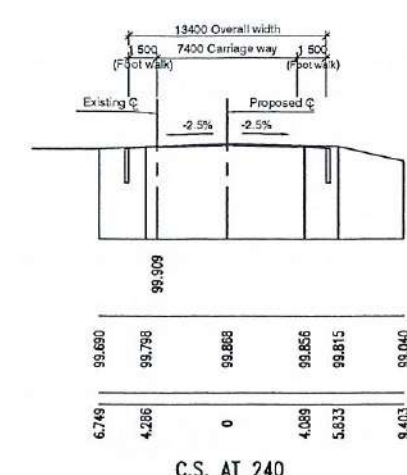
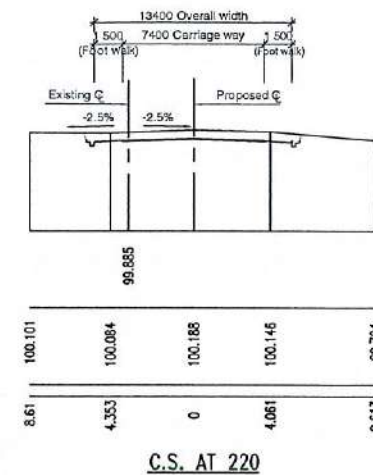
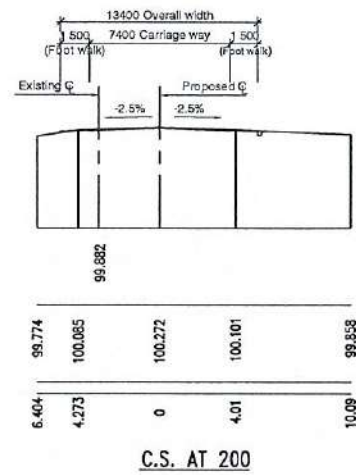
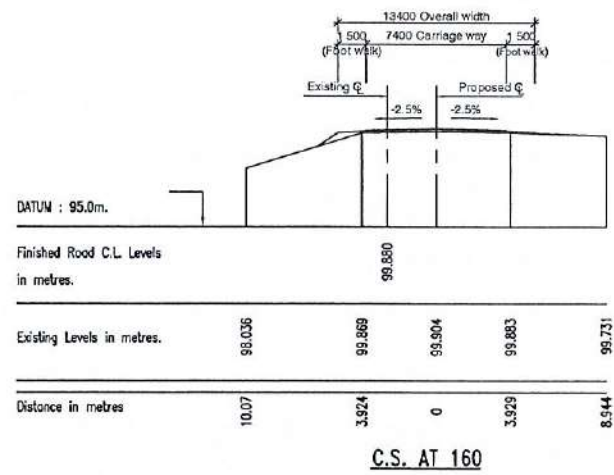
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

LONGITUDINAL SECTION & CROSS SECTIONS

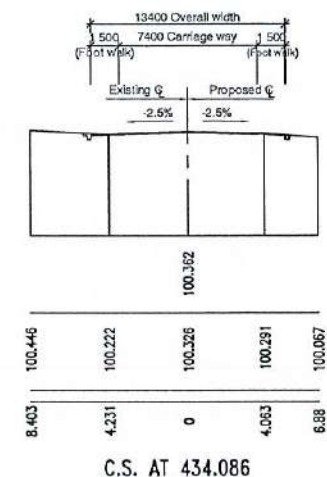
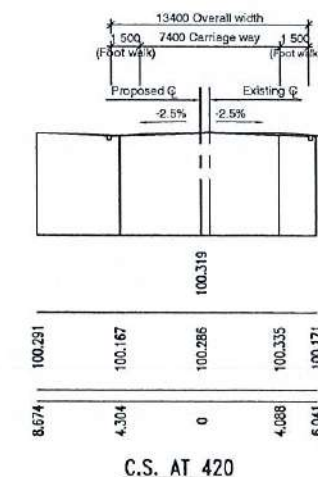
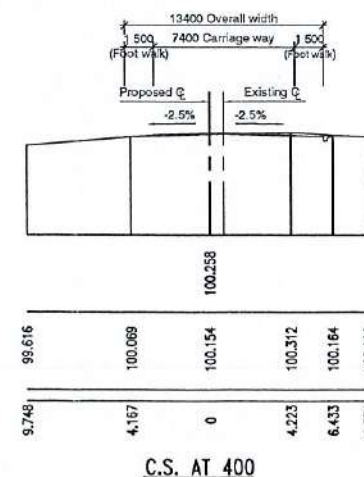
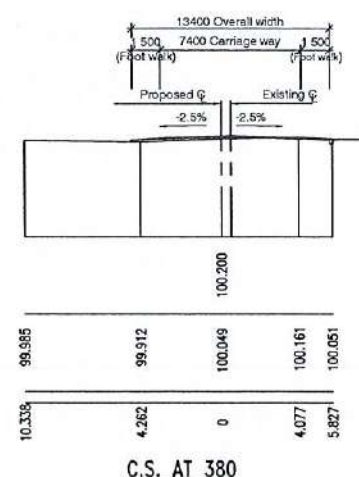
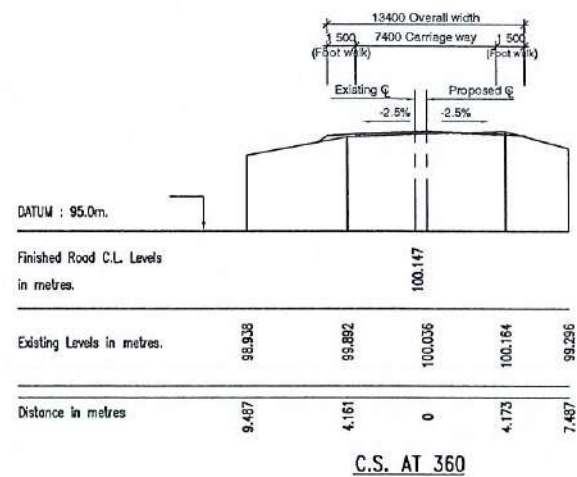
REV	DESCRIPTION	BY	DATE

MINISTRY OF HIGHWAYS SRI LANKA <b>ROAD DEVELOPMENT AUTHORITY</b>			BRIDGE DESIGNS OFFICE 'MAGNEGUMA MAHAMEDURU' BATTARAMULLA
DESIGNED : <i>B.C.N.Tharunani</i> DRAWN : <i>A.D.H.Canga</i> CHECKED : FILE NO. : <i>NCP-34</i>	SENIOR ENGINEER - DESIGNS		DIRECTOR - ENGINEERING SERVICES
DRG. NO. <i>NCP/B/1367/2-1</i>	ADDITIONAL DIRECTOR - BRIDGE DESIGNS	DATE:	ADDITIONAL DIRECTOR GENERAL (C/D) FOR DIRECTOR GENERAL





**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
25/08/2023



Scale :- 1:200

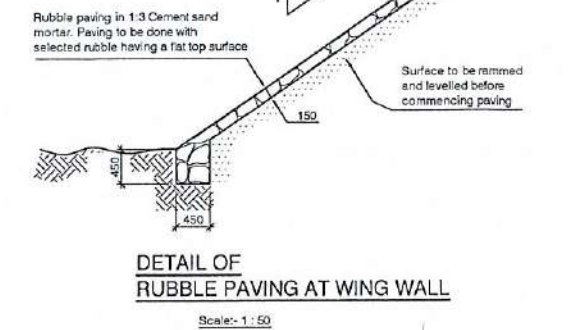
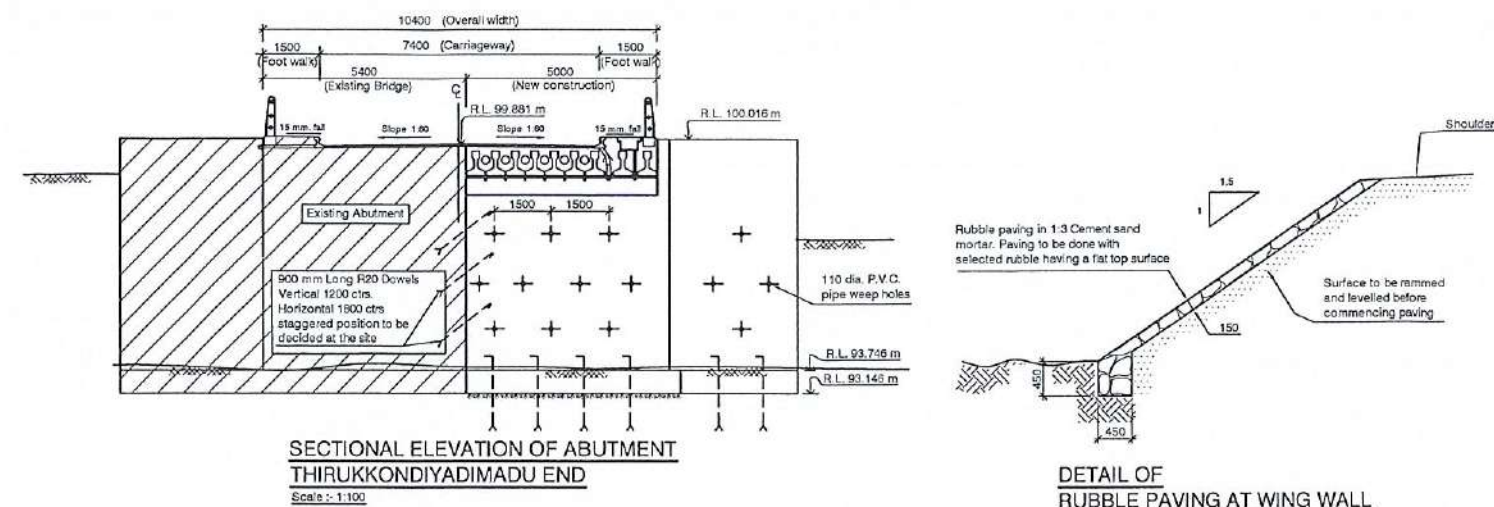
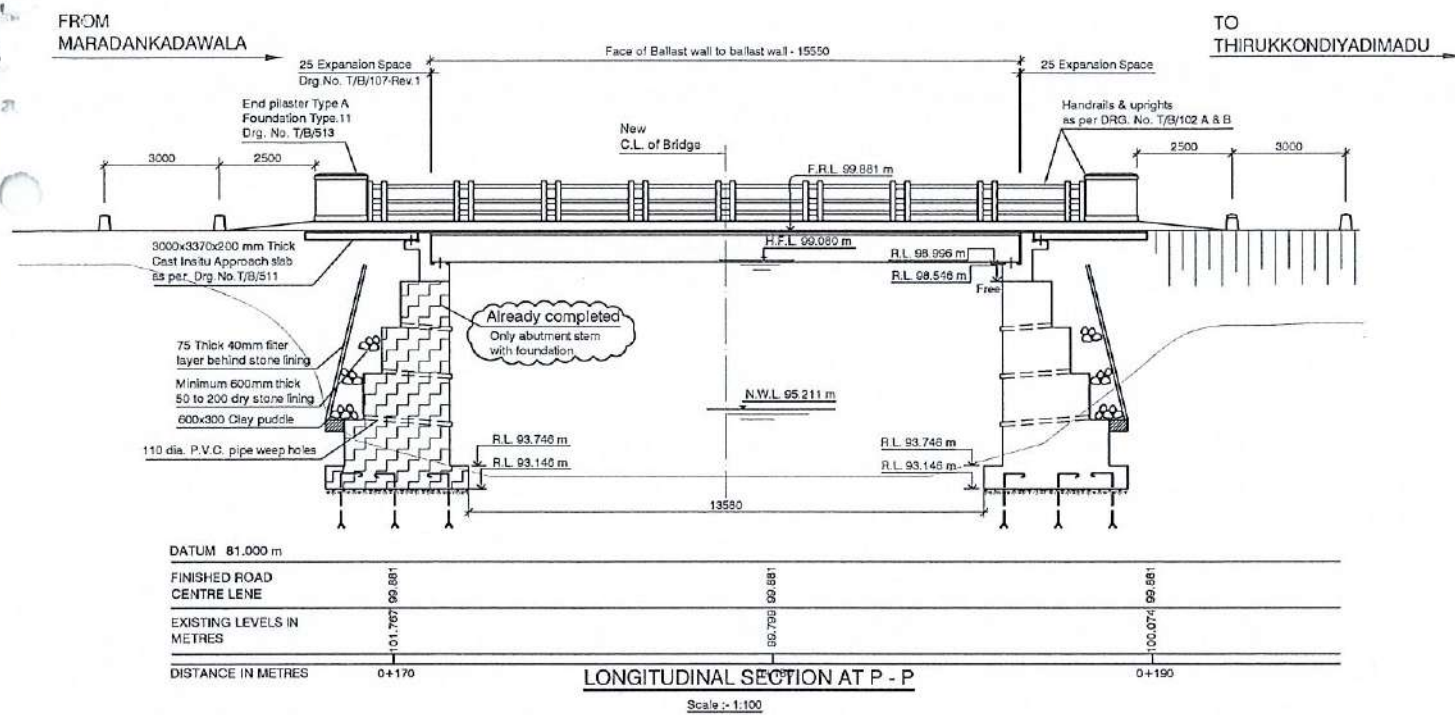
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

CROSS SECTION

REV.	DESCRIPTION	BY	DATE

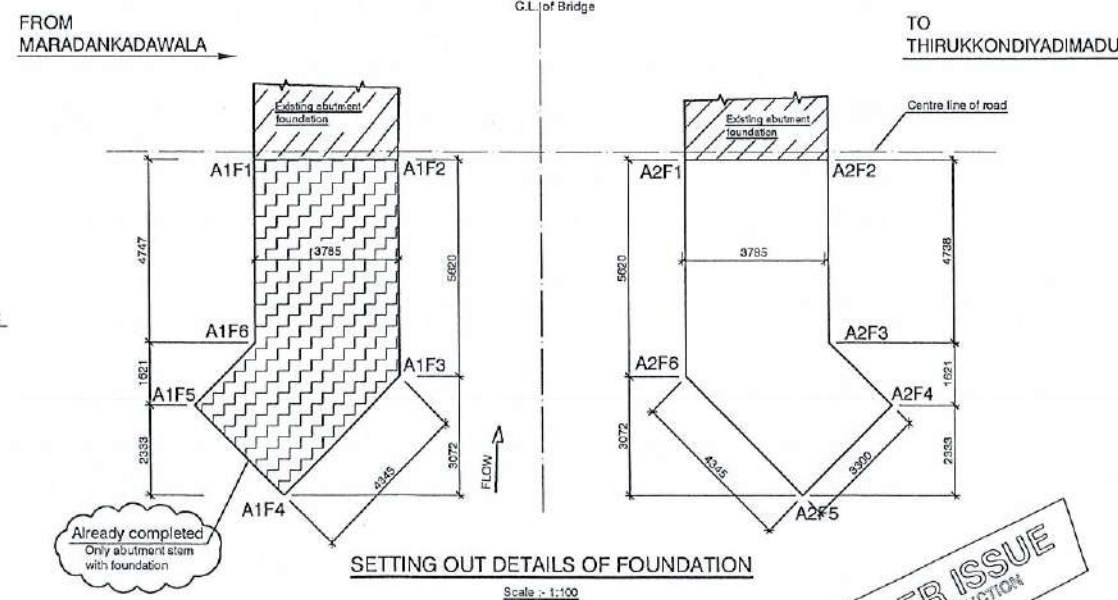
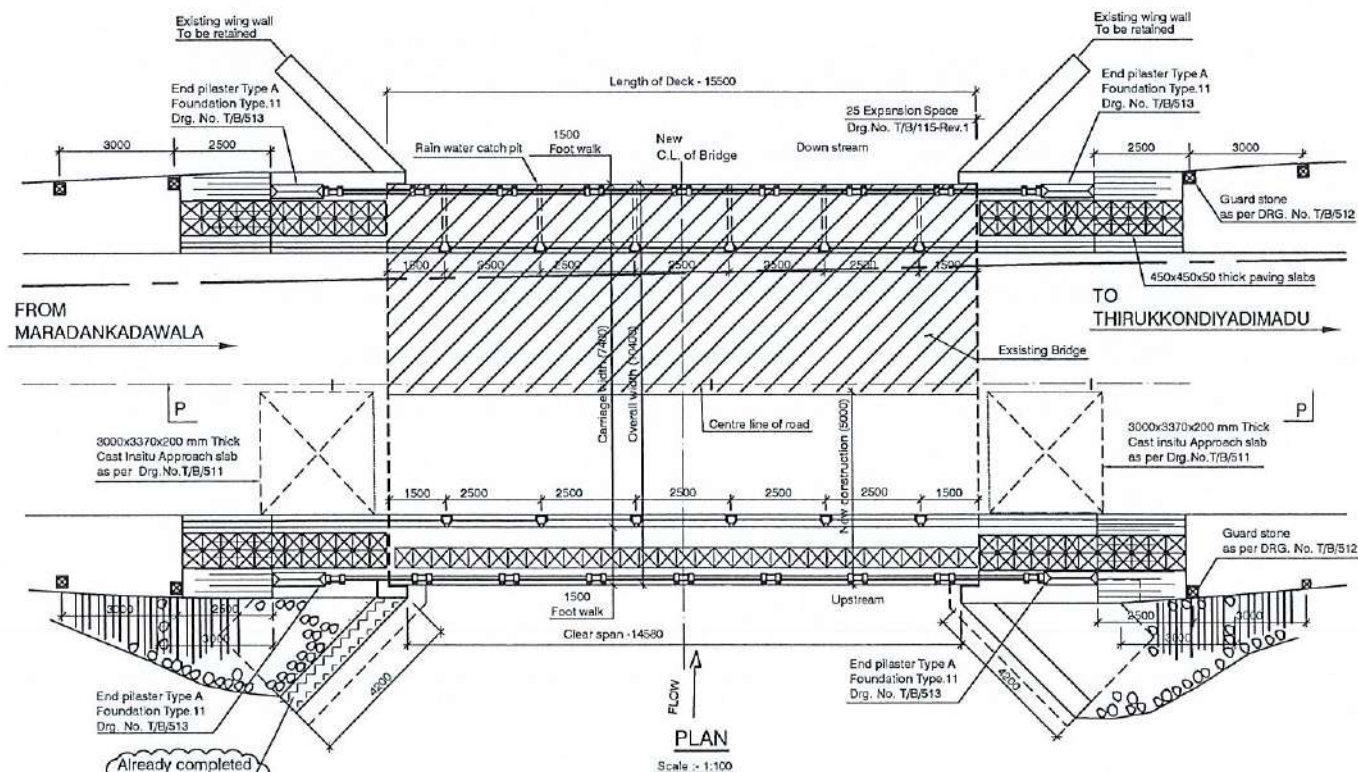
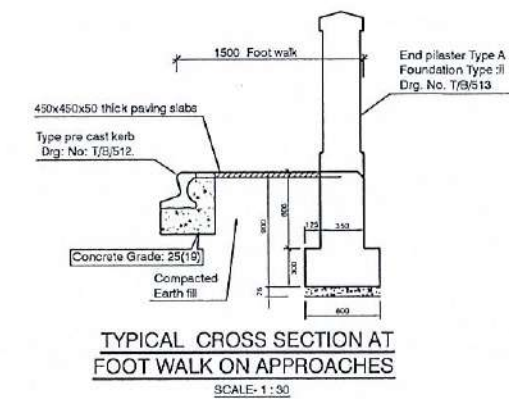
MINISTRY OF HIGHWAYS-SRI LANKA ROAD DEVELOPMENT AUTHORITY		BRIDGE DESIGNS OFFICE "MAGANEKUMA MAHAMEDURAJ" BATTARAMULLA
DESIGNED : B.G.N.Tharanga	SENIOR ENGINEER - DESIGNS	DIRECTOR - ENGINEERING SERVICES
DRAWN : A.D.H.Ganga		ADDITIONAL DIRECTOR - BRIDGE DESIGNS
CHECKED :		ADDITIONAL DIRECTOR GENERAL (C D) FOR DIRECTOR GENERAL
FILE NO. : NCP-34	DRG. NO. NCP/B/1367/2-2	8 DATE:





CO-ORDINATES FOR FOUNDATION

	NORTH	EAST
A1F1	999.7114	974.6893
A1F2	998.4834	978.2608
A1F3	993.1594	976.4435
A1F4	991.2008	972.4398
A1F5	994.1651	970.9896
A1F6	995.2216	973.1494
A2F1	995.0241	985.4395
A2F2	994.7960	989.0198
A2F3	990.3063	987.4798
A2F4	988.1466	988.6364
A2F5	988.6964	985.5721
A2F6	990.7001	983.6134



- NOTES
- All dimensions are in millimetres unless otherwise stated.
  - This drawing to be read in conjunction with drawing no. NCP/B/1367/1, 1B/2, 1, 2, 3, 4 & 5 and standard specifications for constructions and maintenance of roads and bridges.
  - Dimension shall not be obtained by scaling.
  - Any discrepancies in the contract drawings shall be referred to the engineer for revisions before proceeding with work.
  - Any setting out dimensions shown on drawings shall be verified.
  - All workmanship and materials are to be in accordance with requirements of the specification and by laws of the authority.
  - Additional weep holes are to be provided if necessary to suit site condition.
  - Wing wall lengths are to be adjusted at site to suit the variation in site condition during construction.
  - Design Bearing pressure under foundation, 455 kN/m<sup>2</sup>

DRG. INDEX-

1. Site plan	- NCP/B/1367/1
2. Acquisition plan	- NCP/B/1367/1A
3. Bore hole logs and S.P.T. values	- NCP/B/1367/1B
4. L.S. & Cross Sections	- NCP/B/1367/2-1
5. Cross Sections	- NCP/B/1367/2-2
6. General Plan	- NCP/B/1367/3
7. Details of Abutment & Wing wall	- NCP/B/1367/4
8. Details of Deck	- NCP/B/1367/5

**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
25/07/2021

MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

GENERAL PLAN

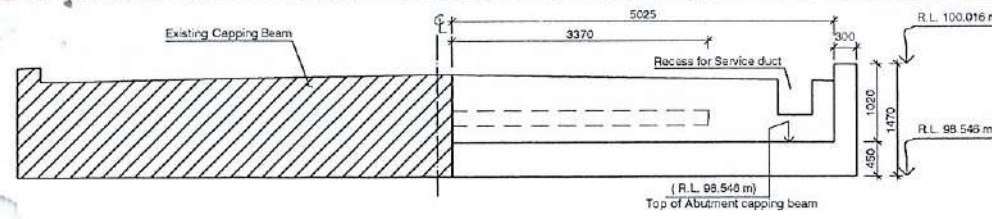
REV.1	Balance work of Bridge	BY: B.C.N.Tharanganie	DATE: 11.08.23
REV.	DESCRIPTION		

MINISTRY OF HIGHWAYS-SRI LANKA  
ROAD DEVELOPMENT AUTHORITY

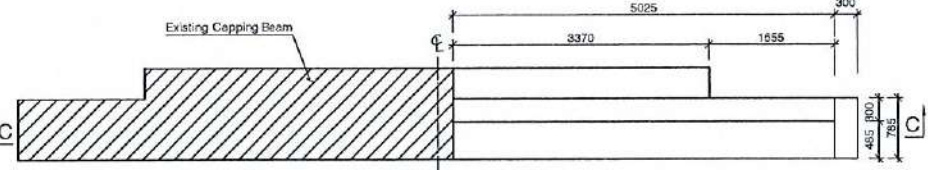
DESIGNED : B.C.N.Tharanganie	SENIOR ENGINEER - DESIGNS	DIRECTOR - ENGINEERING SERVICES
DRAWN : A.D.H.Canga		
CHECKED : Hemamal-DO	ADDITIONAL DIRECTOR - BRIDGE DESIGNS	ADDITIONAL DIRECTOR GENERAL (C.D.) FOR DIRECTOR GENERAL
FILE NO. : NCP-34		
DRG. NO. NCP/B/1367/3-Rev.1	8	DATE:

BRIDGE DESIGNS OFFICE  
"MAGANEGUMA MIHAMEDURA"  
BATTARAMULLA



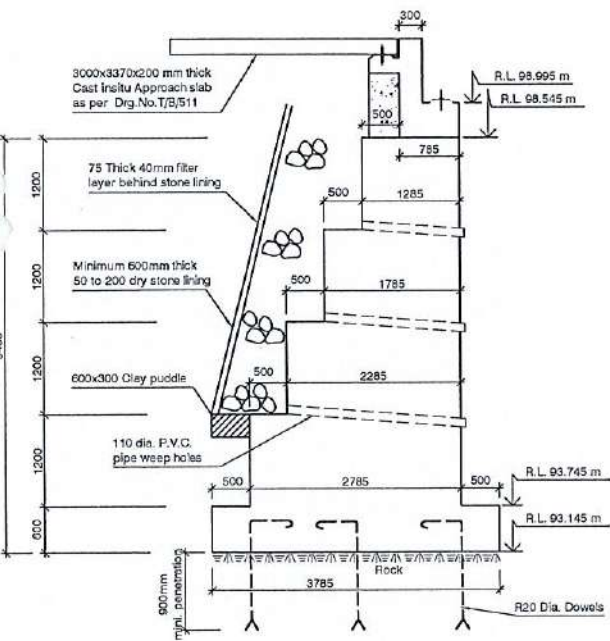


SECTION AT C - C  
Scale = 1:50

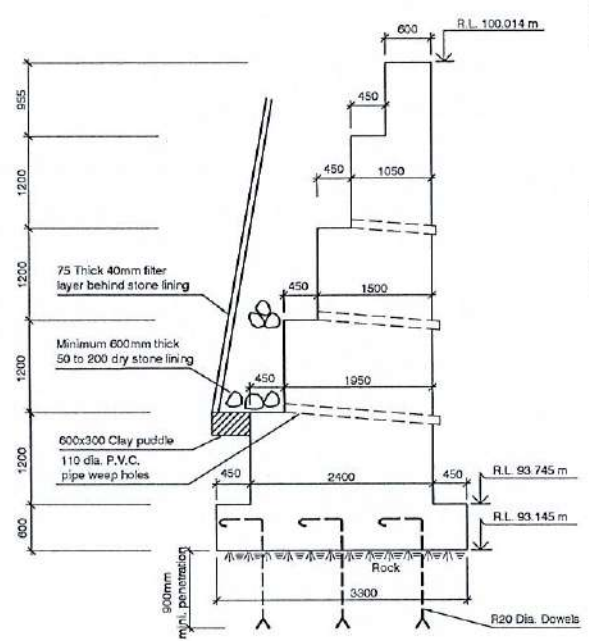


PLAN  
Scale = 1:50

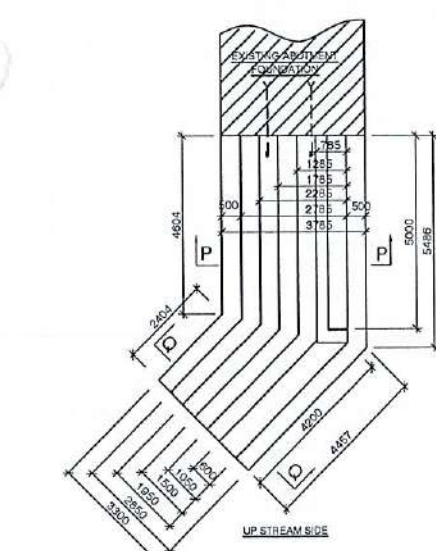
DETAILS OF ABUTMENT CAPPING BEAM-MARADANKADAWALA END



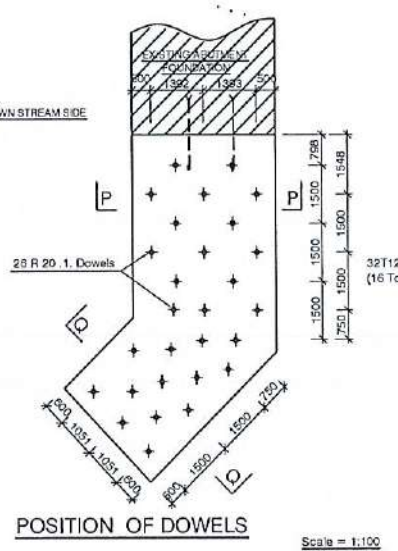
SECTION OF ABUTMENT (P-P)  
Scale : 1 : 50



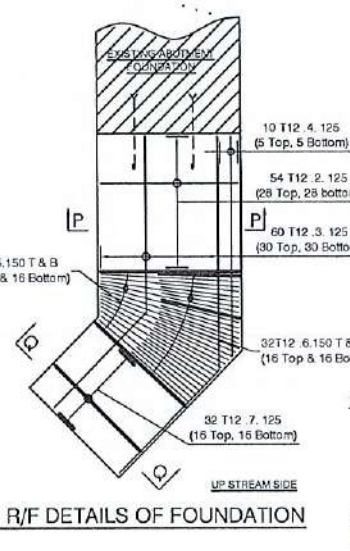
SECTION OF WING WALL (Q-Q)  
Scale : 1 : 50



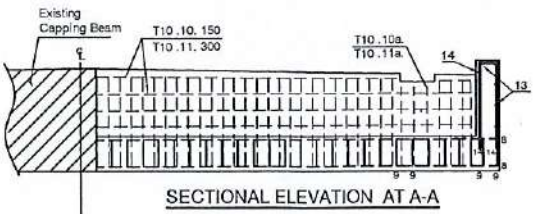
PLAN OF ABUTMENT & WINGWALL  
Scale = 1:100



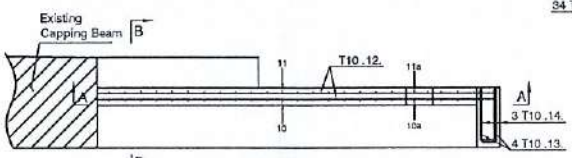
POSITION OF DOWELS  
Scale = 1:100



R/F DETAILS OF FOUNDATION  
Scale = 1:50

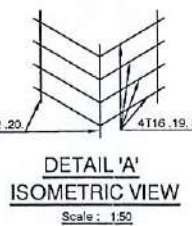


SECTIONAL ELEVATION AT A-A

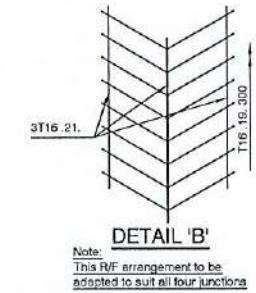


PLAN OF CAPPING BEAM  
SCALE 1:50

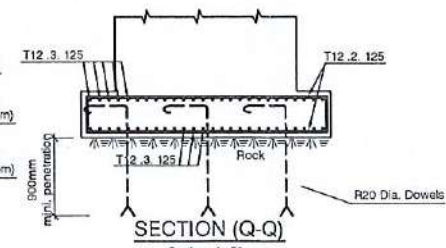
MARADANKADAWALA END  
(THIRUKKONDIYADIMADU END SIMILAR BUT MIRROR IMAGE)



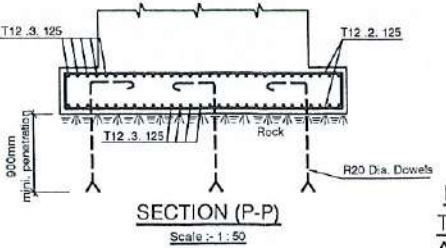
DETAIL 'A' ISOMETRIC VIEW  
Scale : 1:50



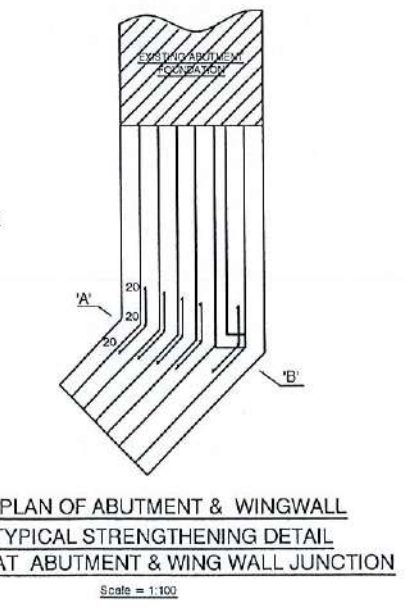
DETAIL 'B'  
Note: This R/F arrangement to be adopted to suit all four junctions.



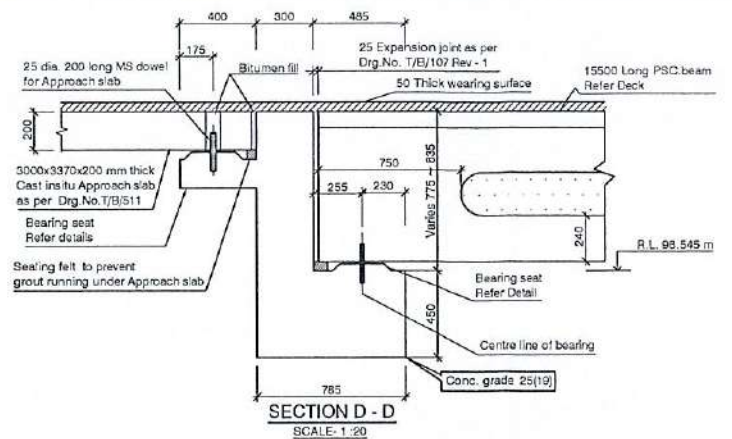
SECTION (Q-Q)  
Scale : 1:50



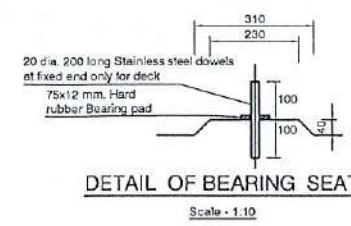
SECTION (P-P)  
Scale : 1:50



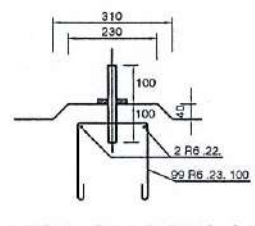
PLAN OF ABUTMENT & WINGWALL TYPICAL STRENGTHENING DETAIL AT ABUTMENT & WING WALL JUNCTION  
Scale = 1:100



SECTION D - D  
SCALE: 1:20



DETAIL OF BEARING SEAT  
Scale - 1:10



R.F. DETAIL OF BEARING SEAT  
Scale - 1:10

SCHEDULE OF REINFORCEMENT.									
Location	Bar mark	Type & size	No. of bars	No. of bars in each	Total number	Length of each bar in m	Total length in m	Weight in kg	Banding
Dowel	1	R20	2	26	52	1800	94	232	(1) 450 (2) 385 (3) 1800
Abutment & Wing wall Foundation	2	T12	2	54	108	4535	490	435	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	3	T12	2	60	120	8890	1067	948	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	4	T12	2	10	20	6210	745	662	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	5	T12	2	32	64	3710	237	211	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	6	T12	2	32	64	1820	117	104	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	7	T12	2	32	64	3750	240	214	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	Abutment Capping beam	8	T16	2	8	16	5580	90	142
9		T10	2	25	48	2190	105	65	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
Ballast wall	10	T10	2	20	40	1130	45	28	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	10a	T10	2	2	4	850	3	2	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	11	T10	2	38	76	1260	95	59	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	11a	T10	2	1	2	780	2	1	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	12	T10	2	6	12	4620	55	35	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	12a	T10	2	2	4	3900	16	10	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
Curtain wall	13	T10	4	8	32	785	25	16	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	14	T10	4	3	12	2400	29	18	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
Corbel for approach slab	15	R5	2	2	4	3250	13	3	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	16	R5	2	50	100	530	53	12	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	17	T10	2	34	68	1450	99	61	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
Strengthening reinforcement	18	T10	2	6	12	3250	39	24	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	20	T12	2	12	24	1375	33	30	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	21	T16	2	3	6	5190	31	49	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
Bearing plinth	22	R5	2	2	4	3250	13	3	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300
	23	R5	2	99	198	780	155	35	(1) 1800 (2) 385 (3) 1800 (4) 450 (5) 3710 (6) 3150 (7) 300

Note : This schedule is indicative only. The contractor shall be responsible for producing his own schedule.

NOTES:-

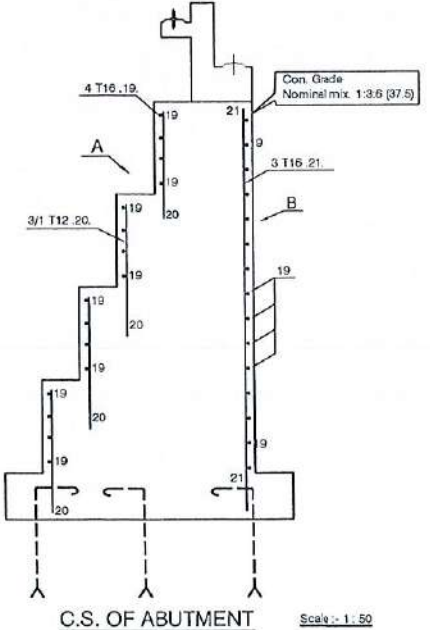
- All bars marked 'R' shall be hot rolled mild steel plain bars of yield strength not less than 250 N/mm.
- All bars marked 'T' shall be high yield deformed bars of yield strength not less than 450 N/mm.
- The bars shall be bent in accordance with the specification.
- Bars of out length larger than the supplied length should be spliced with a lap Length = 55 x Bar diameter and splicing should be staggered.
- Type of form work for foundation slab is rough, all other concrete works are wrought.
- Clear cover to reinforcements (outside of stirrups or ties shall be).

	Formed & Exposed	Not Formed
Foundation	50	75
Abutment & wing wall	50	
Capping beam	50	

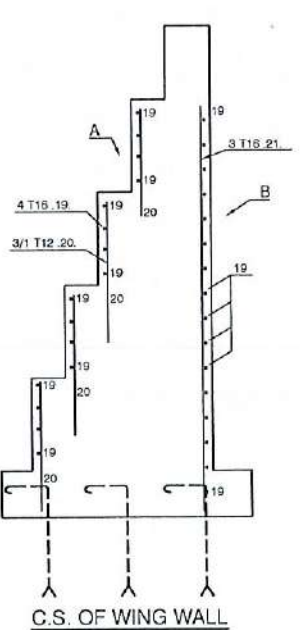
CONCRETE GRADE

- Infiller Concrete between Beams in Bridge Deck - Grade 40 (19)
- Foot walk on Deck & Approaches and Ramp - Grade 25 (19)
- Lower Kerb - Grade 25 (14)
- Abutment Capping Beam, Ballast wall, Curtain wall & Bearing Pad - Grade 25 (19)
- Approach Slab - Grade 25 (19)
- Abutment & Wing wall - Grade 25 (19)
- Served under foundation - Nominal mix. 1:3:6 (37.5)

TENDER ISSUE  
NOT FOR CONSTRUCTION  
25/05/2024



C.S. OF ABUTMENT  
Scale : 1:50



C.S. OF WING WALL  
Scale : 1:50

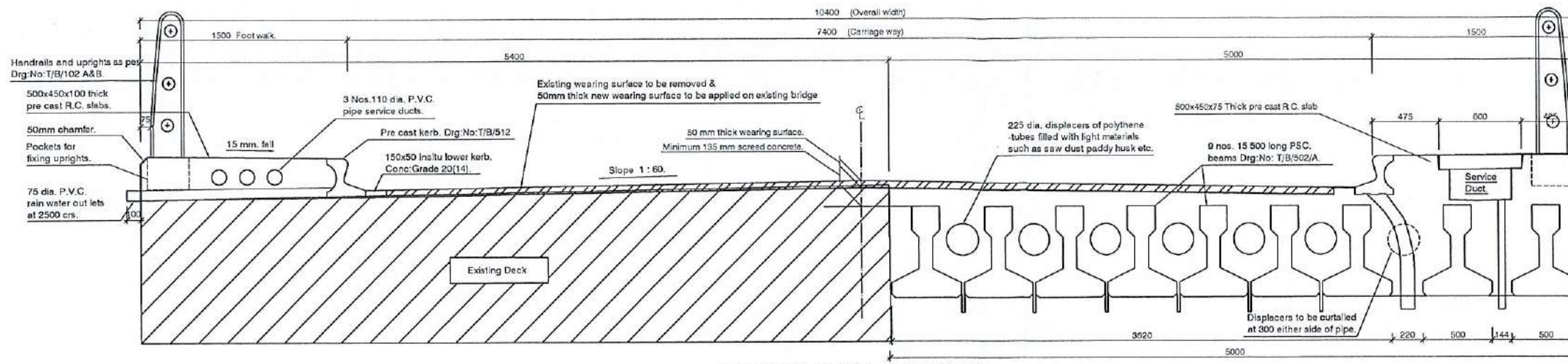
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD.(A011)  
BRIDGE NO. 45/5 km. (Widening)

GENERAL & R.F. DETAILS OF ABUTMENT & WING WALL

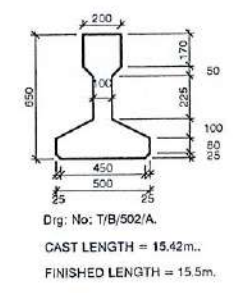
REV.	DESCRIPTION	BY	DATE

MINISTRY OF HIGHWAYS-SRI LANKA ROAD DEVELOPMENT AUTHORITY		BRIDGE DESIGNS OFFICE 'MAGNEGLUMA MAHAMEDURA' BATTARAMULLA
DESIGNED : B.G.N.Tharanga	CHECKED : A.D.H.Canga	
FILE NO. : NCP-34	DRG. NO. NCP/B/1367/4	8
SENIOR ENGINEER - DESIGNS		DIRECTOR - ENGINEERING SERVICES
ADDITIONAL DIRECTOR - BRIDGE DESIGNS		ADDITIONAL DIRECTOR GENERAL (C/D) FOR DIRECTOR GENERAL

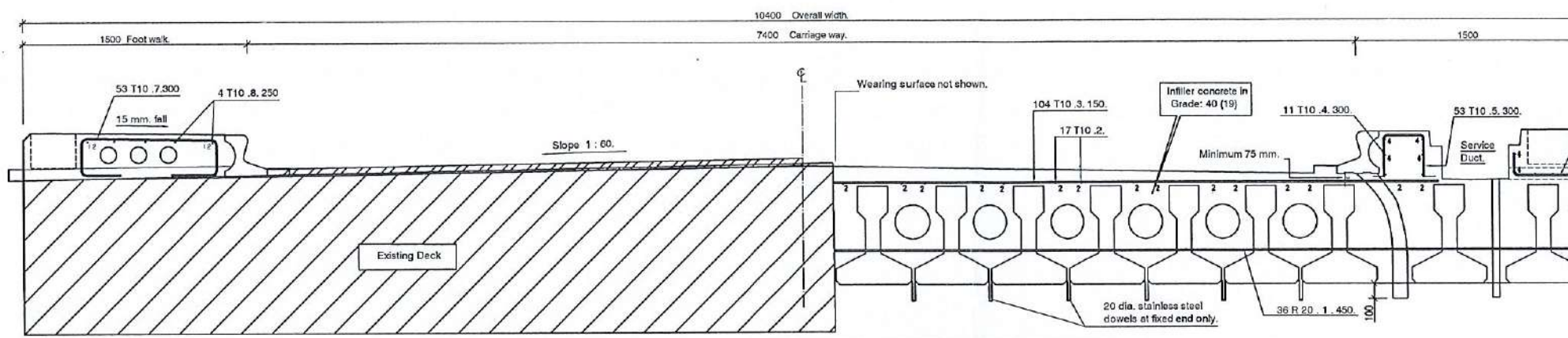




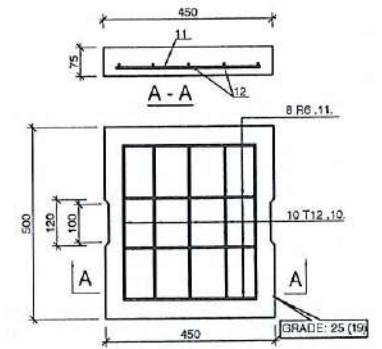
GENERAL DETAILS OF DECK Scale:- 1 : 20.



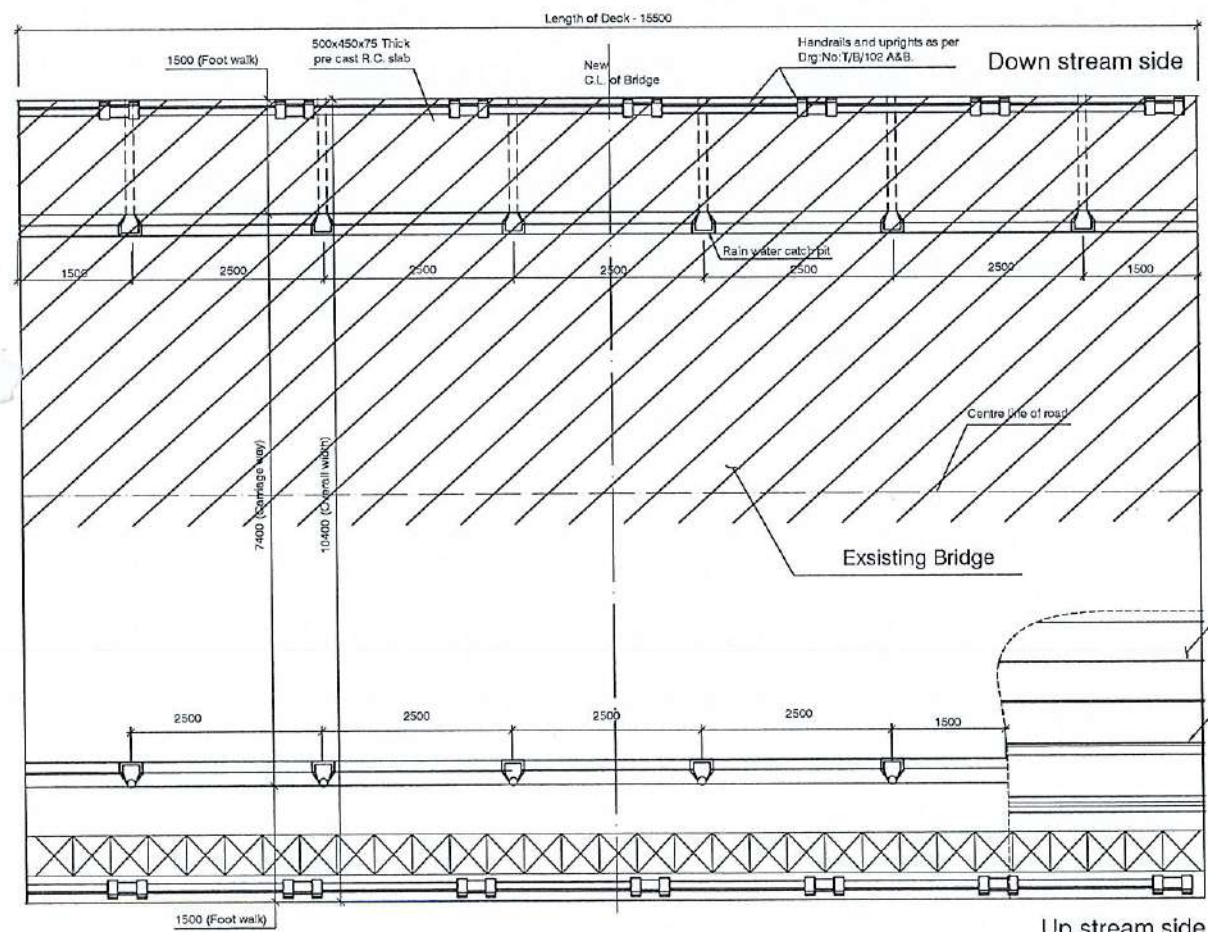
DETAIL OF COVER SLAB  
CAST LENGTH = 15.42m.  
FINISHED LENGTH = 15.5m.



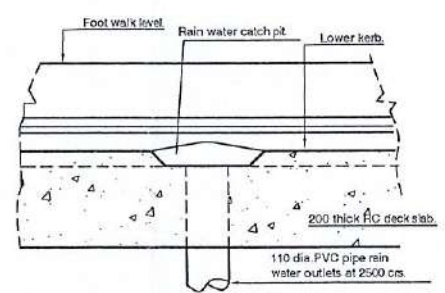
REINFORCEMENT DETAILS OF DECK Scale:- 1 : 20.



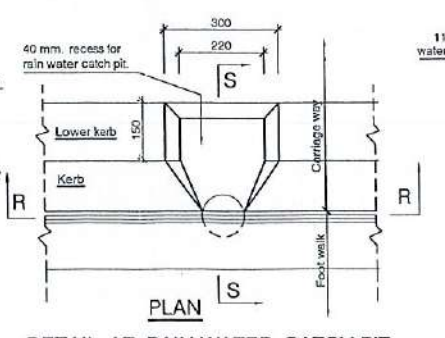
DETAIL OF COVER SLAB Scale :- 1 : 10.



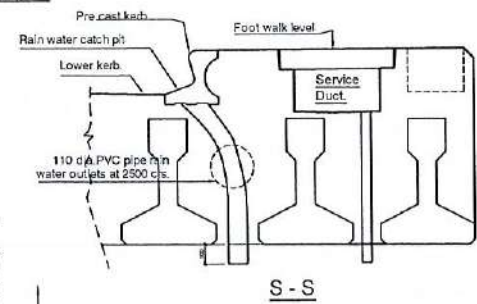
PLAN Scale:- 1:50



R - R SECTIONAL ELEVATION



DETAIL AT RAIN WATER CATCH PIT Scale :- 1 : 10.



**TENDER ISSUE**  
NOT FOR CONSTRUCTION  
22/05/2023

SCHEDULE OF REINFORCEMENT.									
Location	Bar mark	Type & size	No. of mbs in each	No. of bars in each	Total number	Length of each bar in m.	Total length in m.	Weight in kg.	Bending
Deck	1	R20	1	36	36	5145	186	458	① 4895 ② 15000 ③ 4290
	2	T10	1	17	17	16000	268	159	
	3	T10	1	104	104	4200	442	273	
	4	T12	1	11	11	15500	170	152	④ 19900 ⑤ 270 ⑥ 270 ⑦ 140 ⑧ 428
	5	T10	1	53	53	830	44	27	
	6	T10	1	53	53	560	38	23	
	7	T10	1	53	53	2010	106	66	
	8	T10	1	5	5	15500	77	48	⑨ 290 ⑩ 300 ⑪ 350 ⑫ 450
Cover slab (75mm thick) R/F for 1 no.	11	R6	1	4	4	350	2	1	
	12	T10	1	5	5	450	3	2	

Note : This schedule is indicative only. The contractor shall be responsible for producing his own schedule.

- CONCRETE GRADE
- 1. Infiller Concrete between Beams in Bridge Deck - Grade 40 (19)
  - 2. Foot walk on Deck & Approaches and Ramp - Grade 25 (19)
  - 3. Lower Kerb - Grade 25 (14)

MARADANKADAWALA END  
MARADANKADAWALA-HABARANA-THIRUKKONDIYADIMADU ROAD. (A011) BRIDGE NO. 45/5 km. (Widening)  
Up stream side  
THIRUKKONDIYADIMADU END

DETAILS OF DECK

REV.	DESCRIPTION	BY	DATE

MINISTRY OF HIGHWAYS-SRI LANKA  
ROAD DEVELOPMENT AUTHORITY

DESIGNED : B.C.N.Tharanga  
DRAWN : A.D.H.Canga  
CHECKED : Hemamalini-DO  
FILE NO. : NCP-34

BRIDGE DESIGN'S OFFICE  
"MAGANEGUMA MAHAMEDURA"  
BATTARAMULLA

SENIOR ENGINEER - DESIGNS  
ADDITIONAL DIRECTOR - BRIDGE DESIGNS  
DATE : 8

DIRECTOR - ENGINEERING SERVICES  
ADDITIONAL DIRECTOR GENERAL (C/D)  
FOR DIRECTOR GENERAL

DRG. NO. NCP/B/1367/5