



**OFFICE OF THE  
PROJECT DIRECTOR, EXTENSION / CONSTRUCTION OF 36-KILO METER  
SINDH COASTAL HIGHWAY, THATTO (WORKS & SERVICES DEPARTMENT)**

NO:PD/SCH/2025-26/ 272 / THATTO

Dated: 06 / 02 /2026

To,

The Director Information (Advertisement),  
Public Relation Department,  
Block-96 Sindh Secretariat,  
**KARACHI.**

SUBJECT: - **SEALED NOTICE INVITING TENDERS**

Please enclosed find herewith seven copies of Notice Inviting Tenders No:PD/SCH/2025-26/271, dated: 10/02/2026 for favour of the same publication in nationwide circulated newspapers for advertisement in at least one (1) English, Urdu & Sindhi languages newspapers at national level as required under the SPPRA rule 2010 and amended up to date.

It is requested to publish the advertisement in leading newspapers country wide published latest by 13 February, 2026 and furnish copies of the published ads / newspapers clippings to this office for the official record.

**PROJECT DIRECTOR**

EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

**Copy F.W.Cs to:-**

1. The Secretary Works & Services Department Government of Sindh, for favour of his kind information.
2. The Director Information (Advertisement) Public Relation Department Block-96 Sindh Secretariat Karachi for information alongwith copies of the Advertisement for its publication in Mass circulating Newspapers in insertion only.
3. The Director (A&F) Sindh Public Procurement Regulatory Authority, Barrack No.08, Sindh Secretariat No.04-A, Court Road Karachi, alongwith required Tender Documents with CD write for favour of his kind information and up-loading on SPPRA website.
4. Member (I&RC/Co-Chairman of PSC), Planning Commission, Islamabad.
5. Member (I&M/Co-Chairman of PSC), Planning Commission, Islamabad.
6. The Director General (Monitoring), Ministry of Planning & Development & Special Initiatives (Project Wing), Islamabad.
7. Director General NAB, Karachi
8. Senior Chief (Development/Member PSC), W&D, GoS, Karachi.
9. Chief (Communication/Member PSC) P&D Department, GoS, Karachi.
10. All Members of Procurement Committee
11. All Members of Complaint Redressal Committee
12. Notice Board / Drawing Branch for information.

**PROJECT DIRECTOR**

EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



OFFICE OF THE PROJECT DIRECTOR  
EXTENSION/CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO,  
WORKS & SERVICES DEPARTMENT

NO:TC/G-55/CHD/271

/ HYDERABAD

Dated: 10 / 02 / 2026

**SEALED NOTICE INVITING TENDERS**

01. Sealed tenders are invited as per S.P.P.R.A Rules 2010, (Amended upto date) from the interested persons / contractors / companies / firms on Standard Bidding Documents (SBDs) for procurement of the following works.

S.#	Name of Work	Estimated Cost (Rs. In Millions)	Contractors Category	Specialized Code(s)	Tender Fee	2% Bid Security CDR / Scheduled Bank Guarantee only	Completion Period
01.	EXTENSION/CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO Phase-II: From Km 11+000 To Km 47+075 (36.00 Km)	Rs.31,052 million	C-A (No Limit)	CE-01, CE-02, & CE-10	5,000	2% of Estimated Cost	36 Months

**PROGRAMME FOR ISSUE / RECEIPT AND OPENING OF TENDERS**

Particulars	1 <sup>st</sup> Attempt	2 <sup>nd</sup> Attempt
Last date of receipt of application and issuance of tenders after publication of the NIT in newspaper upto 10:00 A.M.	16-03-2026	06-04-2026
Tenders will be received upto 12:00 P.M and opened on the same day at 09:00 P.M.	16-03-2026	06-04-2026

02. **Method of Procurement** (Single Stage Two Envelopes).

03. **Eligibility / Mandatory.**

- i). Valid Registration Certificate upto **June 2026** with Pakistan Engineering Council in relevant category and specialized codes as mentioned against each work.

However, a Foreign Constructor can submit provisional license with its Bid but the Foreign Constructor will be required to submit standard license after award of Contract and before start of work.

Foreign Constructor shall not be eligible to participate in bidding individually. Foreign Constructor shall enter into joint venture with Pakistani Constructor registered with the Pakistan Engineering Council in equivalent/compatible category and submit the joint venture agreement to the Employer before participating in bidding in accordance with PEC Construction and Operation of Engineering Works Bye-laws, 1987.

- ii). Successful experience as prime contractor in the execution of at least one to three projects within the last five years:

(a) of similar nature and complexity comparable to the proposed contract(s); must have following miscellaneous civil works.

- Embankment formation
- Concrete and Steel Reinforcement for Bridge, Box Culverts

- Prestressed/ Post tensioned Concrete Structures
- Piling

(b) Experience of similar nature of works executed in last five years.

- At least one similar nature of work having minimum cost 80% of estimated cost of the work or;
- At least two similar nature works each having minimum cost 50% of the estimated cost of the work.

(c) Proof of work in hand projects will be work order(s) and for completed projects; the project(s) completion certificate from Client(s).

- iii). Bio data of Engineering and Technical staff working with the firm.
- iv). Average Annual turnover not less than equivalent cost of the scheme / project during last five years
- v). Annual audited reports of last 5 years from (ICAP) registered audit firm. Audit report issued other than (ICAP) registered audit firms will not be accepted.
- vi). List of Machinery and equipment involved in construction of road & pre-stress bridges must be attached with ownership documents available.
- vii) Registration with Income Tax Department (NTN Certificate) with active status with Federal Board of Revenue.

viii) Annual Income Tax returns of last five years.

ix) Registration Certificate of Sindh Revenue Board Government of Sindh (SRB) certificate (with Active Status).

x) Bid Security 2% of estimated cost shall be the part of Technical Proposal.

xi) Technical Qualifying Marks will be 75 out of 100

Evaluation Criteria, sub-criteria, for the evaluation of Full Technical Proposals is based on criteria set as follows and provided in the bidding document.

#### Criteria for Evaluation of Technical Bids

Criteria	Marks
Experience of similar nature of works executed in last five years.	40
<ul style="list-style-type: none"> <li>- At least one similar nature of work having minimum cost 80% of estimated cost of the work or;</li> <li>- At least two similar nature works each having minimum cost 50% of the estimated cost of the work.</li> </ul>	
Key Technical Personnel	15
Equipment availability	10
Methodology & Work Plan	05
Work schedule, Quality, Safety	05
Financial Capability, Annual Turnover – Audit Report / Bank Statement	25
<b>Total</b>	<b>100</b>

The work will be awarded to the qualified lowest competitive price Bidder.

04. Bidding / Tender Documents.

1. Contract documents and other terms and conditions can be seen or downloaded from EPADS official website of SPPRA. The tenders fee amounting to (PKR) Rs. 5000/- and the bid security mentioned above in the shape of CDR / Bank Guarantee from any scheduled bank of Pakistan in favour of the "Project Director, Extension / Construction of 36 – Kilo Meter Sindh Coastal Highway, Thatto" Works & Services Department. (Name of firm) should be attached with the Bid / Tenders, otherwise such tenders will not be entertained.
2. The tender will be opened in the presence of the Procurement Committee / participating contractors / firms and their authorized representatives, who may wish to be present.
3. Bid shall comprise Single Package containing two separate envelopes. Each envelop contain separately the Financial Proposal and the Technical Proposal Envelop shall be marked Technical proposal and Financial Proposal in bold and legible letters to avoid confusion.
4. TECHNICAL PROPOSAL opened, shall be evaluated for technical qualification of the firms. Financial bids / proposals of the technically qualified firms shall be opened on the date and time that will be communicated in writing to all the qualified contractors / firms in advance. Financial bids / proposals of technically non-responsive shall be returned to the respective bidders un-opened.
5. The Bid Security of the unsuccessful bidder will be returned back after-the issuance of work order to the successful bidder.
6. In case of any member of procurement committee happens to be out of Head Quarter on the date of opening the bids will be opened on next working day on same schedule.
7. Joint venture will be allowed.
8. Fresh affidavit with effect that all the documents / particulars / machinery information furnished are true and correct. In case of Bogus / Tempered or false information / certificates provided by the company / firm shall be liable to be black listed at any stage.
9. The representative should have authority on Judicial Stamp Paper from owner. Authority other than Judicial Stamp paper will not be accepted and such tender will Not be entertained.
10. In case of Firm, giving full particulars of Directors / Proprietors or other connected along with Power of Attorney. In case opening sole proprietors such undertaking on Affidavit be furnished.
11. Undertaking on stamp paper that firm is not involved in any kind of litigation with, any departmental rift, abandoned or unnecessary delay in completion of any work.
12. Undertaking on fresh affidavit (in original) that the firm / company is not currently black listed by any of the Government Department whether Federal or Provincial.
13. The Tenders shall be submitted along with the above required documentation / information if any of such required documents / information lacking then the tender will not be considered by the procuring committee and no such documents will be accepted after dropping date and time.

Place of submission, inquiries and opening will be: -

➤ Address : Office of The Project Director,  
Extension / Construction of 36 – Kilometer Sindh Coastal  
Highway, Thatto, Works & Services Department,  
at 1<sup>st</sup> Floor Chief Engineer Highways Office,  
Shahbaz Building, Hyderabad

➤ Telephone No. :  
➤ Email Address :

05. Terms & Conditions.

- a). Under following conditions bid will be rejected: -
- i). No conditional electronic and telegraphic bids / Tenders shall be accepted.
  - ii). Bids not accompanied by bid security of required amount and manner.
  - iii). Bids received after specified date and time.
- b). Bid Validity period 90 days.
- c). The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules 2010 (Amended upto-date).

Project Director,

Extension / Construction of 36 – Kilometer  
Sindh Coastal Highway, Thatto,  
Works & Services Department

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7. Director General NAB, Karachi
8. Senior Chief (Development/Member PSC), W&D, GoS, Karachi.
9. Chief (Communication/Member PSC) P&D Department, GoS, Karachi.
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11. All Members of Complaint Redressal Committee
12. Notice Board / Drawing Branch for information.



Project Director,

Extension / Construction of 36 – Kilometer  
Sindh Coastal Highway, Thatto,  
Works & Services Department





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**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**



**TENDER / BIDDING DOCUMENT**  
(SINGLE STAGE – TWO ENVELOPES (SSTE) BIDDING PROCEDURE)

**TECHNICAL BID**

**EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY**  
**Phase-II: From Km 11+000 to Km 47+075 (36.00 Km)**

<b>NIT No. Dated:</b>	-	
<b>Date of Issue up to:</b>	-	
<b>Date of Opening:</b>	-	
<b>Tender issued to:</b>	-	
<b>DR No. Dated:</b>	-	
<b>Amount:</b>	-	Rs: 5,000/-

**OFFICE OF THE PROJECT DIRECTOR**  
Extension / Construction of 36 – Kilo meter  
Sindh Coastal Highway, Thatto

February 2026

  
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



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*[Handwritten Signature]*



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## INVITATION FOR BIDS



**OFFICE OF THE PROJECT DIRECTOR**  
**EXTENSION/CONSTRUCTION OF 36 – KILOMETER SINDH COASTAL HIGHWAY, THATTO,**  
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NO:TC/G-55/CHD/271

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<b>Total</b>	<b>100</b>

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Director, Extension / Construction of 36 – Kilo Meter Sindh Coastal Highway, Thatto” Works & Services Department. (Name of firm) should be attached with the Bid / Tenders, otherwise such tenders will not be entertained.

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9. The representative should have authority on Judicial Stamp Paper from owner. Authority other than Judicial Stamp paper will not be accepted and such tender will Not be entertained.
10. In case of Firm, giving full particulars of Directors / Proprietors or other connected along with Power of Attorney. In case opening sole proprietors such undertaking on Affidavit be furnished.
11. Undertaking on stamp paper that firm is not involved in any kind of litigation with, any departmental rift, abandoned or unnecessary delay in completion of any work.
12. Undertaking on fresh affidavit (in original) that the firm / company is not currently black listed by any of the Government Department whether Federal or Provincial.
13. The Tenders shall be submitted along with the above required documentation / information if any of such required documents / information lacking then the tender will not be considered by the procuring committee and no such documents will be accepted after dropping date and time.

Place of submission, inquiries and opening will be: -

- Address : Office of The Project Director,  
Extension / Construction of 36 – Kilometer Sindh Coastal  
Highway, Thatto, Works & Services Department,  
At 1<sup>st</sup> Floor Chief Engineer Highways Office,  
Shahbaz Building, Hyderabad.
- Telephone No. :
- Email Address :



**05. Terms & Conditions.**

- a). Under following conditions bid will be rejected: -
  - i). No conditional electronic and telegraphic bids / Tenders shall be accepted.
  - ii). Bids not accompanied by bid security of required amount and manner.
  - iii). Bids received after specified date and time.
- b). Bid Validity period 90 days.
- c). The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules 2010 (Amended upto-date).

**Project Director,**  
Extension / Construction of 36 – Kilometer  
Sindh Coastal Highway, Thatto,  
Works & Services Department

**Copy F.W. Cs to: -**

1. The Secretary Works & Services Department Government of Sindh, for favour of his kind information.
2. The Director Information (Advertisement) Public Relation Department Block-96 Sindh Secretariat Karachi for information alongwith copies of the Advertisement for its publication in Mass circulating Newspapers in insertion only.
3. The Director (A&F) Sindh Public Procurement Regulatory Authority, Barrack No.08, Sindh Secretariat No.04-A, Court Road Karachi, alongwith required Tender Documents with CD write for favour of his kind information and up-loading on SPPRA website.
4. Member (I&RC/Co-Chairman of PSC), Planning Commission, Islamabad.
5. Member (I&M/Co-Chairman of PSC), Planning Commission, Islamabad.
6. The Director General (Monitoring), Ministry of Planning & Development & Special Initiatives (Project Wing), Islamabad.
7. Director General NAB, Karachi
8. Senior Chief (Development/Member PSC), W&D, GoS, Karachi.
9. Chief (Communication/Member PSC) P&D Department, GoS, Karachi.
10. All Members of Procurement Committee
11. All Members of Complaint Redressal Committee
12. Notice Board / Drawing Branch for information.

**Project Director,**  
Extension / Construction of 36 – Kilometer  
Sindh Coastal Highway, Thatto,  
Works & Services Department



## INSTRUCTIONS TO BIDDERS



## INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with bidding data will not be part of the Contract and will cease to have effect once the contract is signed.)

### A. GENERAL

#### IB.1 Scope of Bid

- 1.1 Procuring agency as defined in the bidding data hereinafter called “the procuring agency” wishes to receive bids for the construction and completion of works as described in these bidding documents, and summarized in the bidding data hereinafter referred to as the “Works”.
- 1.2 The successful bidder will be expected to complete the works within the time specified in Appendix-A to Bid.

#### IB.2 Source of Funds

- 2.1 Procuring agency has received/allocated/] applied for loan/grant/ Federal/ Provincial/Local Government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this loan/grant/funds will be applied to eligible payments under the contract for which these bidding documents are issued.

#### IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all interested bidders who are eligible under provisions of Sindh Public Procurement Rules as mentioned below and the criteria given in the Notice Inviting Tender (NIT)/ Bidding Document.
- 3.2 Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation shall be limited to those that are essential to ensure the bidder’s capability to fulfill the contract in question.
  - (a) Bidders may be excluded if;
    - (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder’s country by the federal government in case of ICB, or
    - (ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.
  - (b) Government-owned enterprises or institutions may participate only if they can establish that they are;
    - (i) legally and financially autonomous, and



(ii) operate under commercial law.

Provided that where government-owned universities or research centers in the country are of a unique and exceptional nature, and their participation is critical to project implementation, they may be allowed to participate; and

Bidders shall include all those contractors who are registered or incorporated in Pakistan, irrespective of the nationality of their owners and professional staff, or

(c) Bidders are:-

- (i) pre-qualified with procuring agency for particular project/scheme;
- (ii) registered with Pakistan Engineering Council in particular category and discipline,
- (iii) registered with relevant tax authorities (income/sales tax, wherever applicable)

#### **IB.4 One Bid per Bidder**

4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

#### **IB.5 Cost of Bidding**

5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids, and the procuring agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

#### **IB.6 Site Visit**

6.1 The bidders are advised to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the works. All cost in this respect shall be at the bidder's own expense.

6.2 The bidders and any of their personnel or agents will be granted permission by the procuring agency to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the procuring agency, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

### **B BIDDING DOCUMENTS**

#### **IB.7 Contents of Bidding Documents (SSP RULE 21)**

7.1 The bidding documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any addenda issued in accordance with Clause IB.9.



- a. Instructions to Bidders.
  - b. Bidding Data.
  - c. General Conditions of Contract, Part-I (GCC).
  - d. Special Conditions of Contract, Part-II (SCC)
  - e. Specifications.
  - f. Form of Bid and Appendices to Bid.
  - g. Bill of Quantities (Appendix-D to Bid).
  - h. Form of Bid Security.
  - i. Form of Contract Agreement.
  - j. Forms of Performance Security, Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
  - k. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the BD will be rejected.

**IB.8 Clarification of Bidding Documents (SSP RULE 23(1)):**

- 8.1 Any interested bidder requiring any clarification(s) in respect of the bidding documents may notify the procuring agency in writing at the procuring agency's address indicated in the Invitation for Bids/NIT. Procuring agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid.
- 8.2 Provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents.

**IB.9 Addendum/Modification of Bidding Documents:**

- 9.1 At any time prior to the deadline for submission of bids, the procuring agency may, for any reason, whether at his own initiative or in response to a clarification requested by interested bidder, modify the bidding documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the bidding documents pursuant to sub- clause IB 7.1 hereof and shall be communicated in writing to all bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.
- 9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the procuring agency may extend the deadline for submission of bids in accordance with IB.20



## C. PREPARATION OF BIDS

### IB.10 Language of Bid

10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the procuring agency shall be in the language stipulated in the bidding data and Special Conditions of the Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

### IB.11 Documents Accompanying the Bid

11.1 Each bidder shall:

- (a) submit a written authorization on the letterhead of the bidding firm, authorizing the signatory of the bid to act for and on behalf of the bidder;
- (b) update the information indicated and listed in the bidding data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents, which as a minimum, would include the following:
  - (i) Evidence of access to financial resources along with average annual construction turnover;
  - (ii) Financial predictions for the current year and the following two years, including the effect of known commitments;
  - (iii) Work commitments since prequalification;
  - (iv) Current litigation information; and
  - (v) Availability of critical equipment.

And

- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:  
Appendix-E to Bid, Proposed Construction Schedule Appendix-F to Bid, Method of Performing the Work Appendix-G to Bid, List of Major Equipment Appendix-K to Bid, Organization Chart for Supervisory Staff and other pertinent information such as mobilization programme etc.

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;



- (b) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by the authorized partner so as to be legally binding on all partners;
  - (c) the partner-in-charge shall always be duly authorized to deal with the procuring agency regarding all matters related with and/or incidental to the execution of works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
  - (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para (a) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid);
  - (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the procuring agency;
  - (f) submission of an alternative Letter of Intent to execute a Joint Venture Agreement shall be mandatory.
- 11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the bidders' proposals to meet the technical specifications and the completion time referred to sub-clause IB 1.2 hereof.

#### **IB.12 Bid Prices**

- 12.1 Unless stated otherwise in the bidding documents, the contract shall be for the whole of the works as described in IB 1.1 hereof, based on the unit rates or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.
- 12.2 The bidders shall fill in rates and prices for all items of the works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the procuring agency when executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.



- 12.3 The bid price submitted by the contractor shall include all rates and prices including
- the taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.
  - Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 13.7 of the General Conditions of Contract Part-I.
- 12.4 The rates and prices quoted by the bidders are subject to adjustment during the performance of the contract in accordance with the provisions of Clause 13.7 of GCC. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix-C to Bid, and shall submit with their bids such other supporting information as required under the said Clause. Adjustment in prices quoted by bidders shall be allowed as per Sub-Para 4(ii) of Section C of Instructions to bidders and bidding data.

#### **IB.13 Currencies of Bid and Payment**

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the procuring agency's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the bid price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in the bid.
- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the selling rates published and authorized by the State Bank of Pakistan prevailing on the date, 07 (seven) days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the contract.

#### **IB.14 Bid Validity**

- 14.1 Bids shall remain valid for the period stipulated in the bidding data from the date of opening of bid specified in clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders to extend the period of validity for a specified additional period, which shall not be for more than one third of the original period of bid validity. The request and the responses thereto, shall be made in writing. A bidder may refuse the request without the forfeiture of the bid security. In case, a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of the bid security for the period of



the extension, and in compliance with Clause IB.15 in all respects.

#### **IB.15 Bid Security**

- 15.1 Each bidder shall furnish, as part of the bid, a bid security in the amount stipulated in the bidding data in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The bid security shall be at the option of the bidder, in the form of deposit at call, pay order or a bank guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favor of the procuring agency, which should commensurate with the bid validity period. The bank guarantee for bid security shall be acceptable in the manner as provided at Annexure BS-1
- 15.3 Any bid not accompanied by an acceptable bid security shall be rejected by the procuring agency as non-responsive.
- 15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.
- 15.5 The bid security of the successful bidder shall be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The bid security may be forfeited:
- (a) if the bidder withdraws his bid except as provided in sub- clause IB 22.1;
  - (b) if the bidder does not accept the correction of his bid price pursuant to sub- clause IB 27.2 hereof; or
  - (c) In the case of successful bidder, if he fails within the specified time limit to:
    - (i) furnish the required Performance Security; or
    - (ii) sign the Contract Agreement.

#### **IB.16 Alternate Proposals/Bids**

- 16.1 Each bidder shall submit only one bid either by himself, or as a member of a joint venture, until and unless they have been requested or permitted for alternative bid, then he has to purchase separate bidding documents and alternate bid shall be treated as separate bid.
- 16.2 Alternate proposals are allowed only for procurement of works where technical complexity is involved and more than one designs or technical solutions are being offered. Two stage two envelope bidding procedure will be appropriate when alternate proposal is required.
- 16.3 Alternate bid(s) shall contain (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided that the total sum entered on the Form of Bid shall be that which represents complete compliance with the bidding documents.



### **IB.17 Pre-Bid Meeting**

- 17.1 Procuring agency may, on his own motion or at the request of any bidder, hold a pre- bid meeting to clarify issues and to answer any questions on matters related to the bidding documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.
- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Procuring agency not later than seven (7) days before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all bidders. Any modification of the bidding documents listed in sub- clause IB 7.1 hereof, which may become necessary as a result of the pre-bid meeting shall be made by the procuring agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

### **IB.18 Format and Signing of Bid**

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither in the form of bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as "ORIGINAL" and „COPY", as the case may be. If there is any discrepancy between original and copy (ies) then the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person(s) duly authorized to sign on behalf of the bidder pursuant to sub- clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the procuring agency, or as are necessary to correct errors made by the bidder. Such corrections shall be initialed by the person(s) signing the bid.



18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper postal addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the contract is to be sent.

18.8 Bidders should retain a copy of the bidding documents as their file copy.

#### **D. SUBMISSION OF BIDS**

##### **IB.19 Sealing and Marking of Bids**

19.1 Each bidder shall submit his bid as under:

- (a) ORIGINAL and COPIES of the bid shall be separately sealed and put in separate envelopes and marked as such.
- (b) The envelopes containing the ORIGINAL and COPIES shall be put in one sealed envelope and addressed as given in sub – clause IB 19.2 hereof.

19.2 The inner and outer envelopes shall:

- (a) be addressed to the procuring agency at the address provided in the bidding data;
- (b) bear the name and identification number of the contract as defined in the bidding data; and
- (c) provide a warning not to open before the time and date for bid opening, as specified in the bidding data.

19.3 In addition to the identification required in sub- clause IB 19.2 hereof, the inner envelope shall indicate the name and postal address of the bidder to enable the bid to be returned unopened in case it is declared “late” pursuant to Clause IB.21

19.4 If the outer envelope is not sealed and marked as above, the procuring agency will assume no responsibility for the misplacement or premature opening of the Bid.

##### **IB.20 Deadline for Submission of Bids**

20.1

- (a) Bids must be received by the procuring agency at the address specified not later than the time and date stipulated in the bidding data,
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims shall be entertained for refund of such expenses,
- (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate



letter attached to but not included in the sealed bid package.

- (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

20.2 The Procuring Agency may, at its discretion, extend the deadline for submission of bids by issuing an amendment in accordance with IB 09. In such case, all rights and obligations of the procuring agency and the bidders shall remain the same as mentioned in the original deadline.

#### **IB.21 Late Bids**

##### **21.1**

- (a) any bid received by the procuring agency after the deadline for submission of bids prescribed in to clause IB 20 shall be returned unopened to such bidder.
- (b) delays in the mail, person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to submit the bid in time.

#### **IB.22 Modification, Substitution and Withdrawal of Bids**

22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the procuring agency prior to the deadline for submission of bids.

22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.

22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub - clauses IB 22.1 and IB 27.2.

22.4 Withdrawal of a bid during the interval between the deadlines for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the bid security in pursuance to clause IB 15.



## **E. BID OPENING AND EVALUATION.**

### **IB.23 Bid Opening**

- 23.1 Procuring agency will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of bidder's representatives who choose to attend, at the time, date and location stipulated in the bidding data. The bidders or their representatives who are in attendance shall sign an attendance sheet.
- 23.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to clause IB.22 shall not be opened.
- 23.3 Procuring agency shall read aloud the name of the bidder, total bid price and price of any Alternate Proposal(s), if any, discounts, bid modifications, substitution and withdrawals, the presence or absence of bid security, and such other details as the procuring agency may consider appropriate, and total amount of each bid, and of any alternative bids if they have been requested or permitted, shall be read aloud and recorded when opened.
- 23.4 Procuring Agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the sub-clause IB.23.3.

### **IB.24 Process to be Confidential. (SPP Rule 53)**

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report in accordance with the requirements of Rule 45, which states that Procuring agencies shall announce the results of bid evaluation in the form of a report giving reasons for acceptance or rejection of bids. The report shall be hoisted on website of authority and that of procuring agency if it website exists and intimated to all bidders at least seven (7) days prior to the award of contract. The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the procuring agency's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

### **IB.25 Clarification of Bid (SPP Rule 43)**

- 25.1 To assist in the examination, evaluation and comparison of bids, the procuring agency may, at its discretion, ask any bidder for clarification of the bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the procuring agency in the evaluation of the bids in accordance with clause IB 28.



## IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
- 26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub- clause 26.1, the bids of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents. Technical and financial evaluations may be carried out in accordance with single stage-single one envelope, single stage-two envelopes, two stage or two stage-two envelopes bidding procedures, depending on the selection procedure adopted by the procuring agency.
- 26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) conforms to all the terms, conditions and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the works; (ii) which limits in any substantial way, inconsistent with the bidding documents, the procuring agency's rights or the bidder's obligations under the contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.

### (A). Major (material) Deviations include:-

- (i) has been not properly signed;
- (ii) is not accompanied by the bid security of required amount and manner;
- (iii) stipulating price adjustment when fixed price bids were called for;
- (iv) failing to respond to specifications;
- (v) failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
- (vi) sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;
- (vii) refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;
- (viii) taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (ix) a material deviation or reservation is one:
  - (a) which affect in any substantial way the scope, quality or performance of the works;
  - (b) adoption /rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.



### (B) Minor Deviations

Bids that offer deviations acceptable to the Procuring Agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

- 26.5 If a bid is not substantially responsive, it will be rejected by the procuring agency, and may not subsequently be made responsive by correction or withdrawal of the non- conforming deviation or reservation.

### **IB.27 Correction of Errors before Financial Evaluation**

- 27.1 Bids determined to be substantially responsive will be checked by the procuring agency for any arithmetic errors. Errors will be corrected by the procuring agency as follows:

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the procuring agency there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted will govern and the unit rate will be corrected.

- 27.2 The amount stated in the Form of Bid will be adjusted by the procuring agency in accordance with the above procedure for the correction of errors and with the concurrence of the bidders. The amount thus corrected shall be considered as binding upon the bidder. If the bidder does not accept the corrected bid price, his bid will be rejected, and the bid security shall be forfeited in accordance with sub- clause IB 15.6(b) hereof.

### **IB.28 Financial Evaluation and Comparison of Bids**

- 28.1 The procuring agency will evaluate and compare only the Bids determined to be substantially responsive in accordance with clause IB 26.

- 28.2 In evaluating the Bids, the procuring agency will determine for each bid the evaluated bid price by adjusting the bid price as follows:

- (a) making any correction for errors pursuant to clause IB 27;
- (b) excluding provisional sums (if any), for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
- (c) making an appropriate adjustment for any other acceptable variation or deviation.

- 28.3 The estimated effect of the price adjustment provisions of the conditions of contract, applied over the period of execution of the contract, shall not be taken into account in bid evaluation.



- 28.4 If the bid of the successful bidder is seriously unbalanced in relation to the procuring agency's estimate of the cost of work to be performed under the contract, the procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the contract.
- 28.5 Bidders may be excluded if involved in “**Corrupt and Fraudulent Practices**” means either one or any combination of the practices given below SPP Rule2(q);
- i. “**Coercive Practice**” means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
  - ii. “**Collusive Practice**” means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
  - iii. “**Corrupt Practice**” means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
  - iv. “**Fraudulent Practice**” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
  - v. “**Obstructive Practice**” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.
- 28.6 Evaluation Report (SPP Rule 45): After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.



**F. AWARD OF CONTRACT IB.29 Award (SPP Rule 49)**

- 29.1 Subject to clauses IB 30 and IB 34 and provision of the rule: The procuring agency shall award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents, and who has offered the lowest evaluated bid, but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub- clause IB 29.2.
- 29.2 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having *prima facie* evidence of any deficiency(ies) in contractor’s capacities, may require the contractor to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project. Provided, that such qualification shall only be laid down after recording reasons thereof, in writing. They shall form part of the records of that bid evaluation report.

**IB.30 Procuring Agency’s Right to reject all Bids or Annul/Cancellation the Bidding Process (SPP Rule 25)**

- 30.1 Notwithstanding clause IB 29 and provision of the rule: (1) A procuring agency reserves may cancel the bidding process at any time prior to the acceptance of a bid or proposal; (2) The procuring agency shall incur no liability towards bidders solely by virtue of its invoking sub – rule (1); (3) Intimation of the cancellation of bidding process shall be given promptly to all bidders and bid security shall be returned along with such intimation; (4) The procuring agency shall, upon request by any of the bidders, communicate to such bidder, grounds for cancellation of the bidding process, but is not required to justify such grounds.

**IB.31. Notification/Publication of the Award of Contract (SPP Rule 25).**

- 31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing (“Letter of Acceptance”) that his bid has been accepted. This letter shall mention the sum which the procuring agency will pay to the contractor in consideration of the execution and completion of the works by the contractor as prescribed by the contract (hereinafter and in the conditions of contract called the “Contract Price”).
- 31.2 No negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.



31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:

- (1) Evaluation Report;
- (2) Form of Contract and letter of Award;
- (3) Bill of Quantities or Schedule of Requirement.

**31.6 Debriefing (SPP Rule 51).**

- (a) A bidder may ask the procuring agency for reasons for non-acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reasons for such non acceptance, either in writing or by holding a debriefing meeting with such a bidder.
- (b) The requesting bidder shall bear all the costs of attending such a debriefing.

**IB.32 Performance Security (SPP Rule 39)**

- 32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of pay order or demand draft or bank guarantee, and the amount stipulated in the bidding data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-clause IB.32.1 or clauses IB 33 or IB 35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
- 32.3 Validity of performance security shall extend at least ninety days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

**IB.33 Signing of Contract Agreement (SPP Rule 39)**

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the procuring agency will send the successful bidder the Contract Agreement in the form provided in the bidding documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the procuring agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the procuring agency.
- 33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the signatures of both the procuring agency and the successful



bidder are affixed to the written contract. Such affixing of signatures shall take place within the time prescribed in the bidding documents. Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

### **33.4 Stamp Duty.**

The formal Agreement between the Procuring Agency and the successful bidder shall be duly stamped at rate of bid price (updated from time to time) stated in Bidding Data and Letter of Acceptance.

### **IB.34 General Performance of the Bidders**

34.1 Procuring agency may in case of consistent poor performance of the contractor and his failure to remedy the underperforming contract may take such action as may be deemed appropriate under the circumstances of the case including the rescinding the contract and/or black listing of such contractor and debarring him from participation in future bidding process.

### **IB.35 Integrity Pact (SPP Rule 89)**

35.1 The bidder shall sign and stamp the Integrity Pact provided at Appendix-L to the bidding documents for all Provincial/Local Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

### **IB.36 Instructions not Part of Contract**

36.1 Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the bid or the Contract Documents.

### **IB.37 Arbitration (SPP Rule 34)**

37.1 Any dispute that is not amicably resolved shall be finally settled, unless otherwise specified in the Contract, under the Arbitration Act 1940 updated from time to time and would be held anywhere in the Province of Sindh at the discretion of procuring agency.



**BIDDING DATA**



### Contact/Bidding Data

The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders Clause Reference	Bidding Data
1.1	<p><b>Name and address of the procuring agency:</b></p> <p>Office of The Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works &amp; Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad.</p>
1.2	<p><b>Name of the Project and Summary of the works:</b></p> <p>Construction for Sindh Coastal Highway, Phase-II: From Km 11+000 To Km 47+075 (36.00 Km).</p> <p>Phase-I of the project is already under construction from Km 0+000 to Km 11+000 under ADP No. 4143 of 2022-23 / ADP No. 5075 of 2023-24. Phase-II is extension of Phase-I included in Section-I of Sindh Coastal Highway. The height of the proposed embankment of coastal highway has been kept with respect to astronomical tide height (3.65 – 3.7m). Bridges will be constructed across the creeks; the alignment is crossing through and cross drainage structures /culverts will be constructed to ensure inland flow.</p>
2.1	<p><b>Name of the Borrower/Source of Financing/Funding Agency/Funding Source:</b></p> <p>PSDP No. 188 (2025-2026)</p>
2.1	<p><b>Amount and Type of Financing/Scheme Cost and Allocated Funds:</b></p> <p>PSDP Funded Through No. PSDP No.188 (2025-2026) <b>Rs. 32,047 million (Scheme Construction Cost);</b></p> <p>Construction Cost: Rs. 31,052 million Allocated amount 8,000 million in CFY</p>
8.1	<p><b>Time limit for clarification:</b></p> <p>10 working days prior to last date of submission</p>



10.1	<b>Bid language:</b>  English
11.1 (b)	<b>Prequalification Information to be updated:</b>  I. Pakistan Engineering Council (PEC) in the category <u>C-A</u> for the works and in discipline CE01, CE02 and CE10 II. Registered with relevant tax authorities. III. Following information submitted with application for prequalification is to be updated;  i. Evidence of access to financial resources, ii. Latest status of financial resources commitment for two years (including the current year), iii. Works awarded during the interim period, iv. Availability of essential critical equipment, v. Information about litigation presently in process.  (a) of similar nature and complexity comparable to the proposed contract(s); must have following miscellaneous civil works.  – Embankment formation – Concrete and Steel Reinforcement for Bridge, Box Culverts – Prestressed/ Post tensioned Concrete Structures – Piling  (b) Experience of similar nature of works executed in last five years.  – At least one similar nature of work having minimum cost 80% of estimated cost of the work or – At least two similar nature works each having minimum cost 50% of the estimated cost of the work.  (c) Proof of work in hand projects will be work order(s) and for completed projects; the project(s) completion certificate from Client(s).  Similarity shall be based on the physical size, complexity, methods, technology or other characteristics as indicated above.  vi. Average Annual turnover not less than equivalent cost of the scheme / project during last five years  Technical Qualifying Marks will be 75 out of 100 Evaluation Criteria, sub-criteria, for the evaluation of Full Technical Proposals is based on criteria set as follows.



### Criteria for Evaluation of Technical Bids

Criteria	Marks
Experience of similar nature of works executed in last five years. – At least one similar nature of work having minimum cost 80% of estimated cost of the work or; – At least two similar nature works each having minimum cost 50% of the estimated cost of the work.	40
Key Technical Personnel	15
Equipment availability	10
Methodology & Work Plan	05
Work schedule, Quality, Safety	05
Financial Capability - Annual Turnover – Audit Report / Bank Statement	25
<b>Total</b>	<b>100</b>

The work will be awarded to the qualified lowest competitive price Bidder.

11.1 (c)

### Financial & Technical Proposal and Company Profile in single stage two envelope:

Furnish a technical proposal taking into account the various Appendices to Bid specially the following:  
Appendix-E to Bid, Proposed Construction Schedule  
Appendix-F to Bid, Method of Performing the Work  
Appendix-G to Bid, List of Major Equipment  
Appendix-K to Bid, Organization Chart for Supervisory Staff and other pertinent information such as mobilization programme etc.

12.1

### Bid Price:

Percentage quoted above or below on the rates of Composite Schedule of Rates (CSR)

13.1

### Currencies of Bid:

Bidders to quote entirely in Pak Rupees.

14.1

### Period of Bid Validity:

Period of Bid validity is 90 days, extendable if required. Bid validity can be extended in accordance to updated rule No. 38 of Sindh Public Procurement Rules, 2010 (Amended up to date).

15.1

Bid Security 2% of estimated cost shall be the part of Technical Proposal.

16.1

### Alternate Proposals/Bids:

Alternate bids are not allowed.



17.1	<p><b>Venue, time, and date of the pre-Bid meeting:</b></p> <p>Pre-bid meeting will held;</p> <p>Venue: Office of The Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works &amp; Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad. Time: at 11:00 hours Date: 23/02/2026.</p>
18.4	<p><b>Number of copies of the bid to be completed and returned:</b></p> <p>Number of copies of the bid to be completed and returned one original + 2 (two) copies.</p>
19.2 (a)	<p><b>Procuring Agency's address for the purpose of bid submission:</b></p> <p>Office of The Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works &amp; Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad.</p>
19.2 (b)	<p><b>Name and Identification Number of the Contract:</b> No: _____</p>
20.1 (a)	<p><b>a. Deadline for submission of bids:</b></p> <p>Dated: 16/03/2026.</p> <p><b>b. Venue, Time and Address of Bid Opening</b></p> <p>Venue: Office of The Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works &amp; Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad. Time: 1300 Hours Date: 16/03/ 2026.</p>
28.1	<p><b>Financial Evaluation:</b></p> <p>Single Stage Two envelope</p>



32.1	<p><b>Standard form and amount of Performance Security acceptable to the procuring agency:</b></p> <p>The performance security shall be of an amount equal to 10% of the contract price stated in the Letter of Acceptance. Such security shall be in form of a Bank Guarantee from any scheduled bank in Pakistan and in the format attached with this tender document as form (PS-1)</p>
33.4	<p><b>Stamp Duty.</b></p> <p>0.35% or as applicable will be paid by successful bidder as stamp duty.</p>
	<p><b>Pakistan Engineering Council Registration for Foreign Constructor.</b></p> <p>However, a Foreign Constructor can submit provisional license with its Bid but the Foreign Constructor will be required to submit standard license after award of Contract and before start of work.</p> <p>Foreign Constructor shall not be eligible to participate in bidding individually. Foreign Constructor shall enter into joint venture with Pakistani Constructor registered with the Pakistan Engineering Council in equivalent/compatible category and submit the joint venture agreement to the Employer before participating in bidding in accordance with PEC Construction and Operation of Engineering Works Bye-laws, 1987.</p>



**FORM OF BID AND APPENDICES TO BID**



FB-1

**FORM OF BID**

Bid Reference No. \_\_\_\_\_

Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto  
Phase-II: from Km 11+000 to Km 47+075 (36.00 Km)

Office of the Project Director,  
Extension / Construction of 36 – Kilometer Sindh Coastal Highway,  
Thatto, Works & Services Department,  
at 1<sup>st</sup> Floor Chief Engineer Highways Office,  
Shahbaz Building, Hyderabad.

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. \_\_\_\_\_ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. \_\_\_\_\_  
(Rupees \_\_\_\_\_)  
or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this bid.
3. As security for due performance of the undertakings and obligations of this bid, we/I submit herewith a bid security in the amount of Rs. \_\_\_\_\_ (Rupees: \_\_\_\_\_) drawn in your favour or made payable to procuring agency and valid for a period of \_\_\_\_\_ days beginning from the date, bid is opened.
4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of 90 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. 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.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 4.2 of Conditions of Contract for the due performance of the Contract.



10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency. *(Please delete this in case of Bid form a single bidder)*

In the capacity of \_\_\_\_\_ duly authorized to sign Bids for and on behalf of

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2026

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

\_\_\_\_\_  
 (Name of Bidder in Block Capitals)  
 (Seal)

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Witness:

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

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Occupation: \_\_\_\_\_



**SPECIAL STIPULATIONS**  
Clause Conditions of Contract

1.	Engineer representing Consulting Firm hired by the procuring agency to issue variation in case of emergency.	3.1	1% of the contract price stated in the Letter of Acceptance.
2.	Amount of Performance Security	4.2	10% of contract price. Total amount including performance security and retention money deducted from bills should not exceed 10% of contract price stated in the Letter of Acceptance.
3.	Time for Furnishing Programme	8.3	Within 42 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third-Party Insurance	18.3	Rs. <u>5 million</u> per occurrence with number of occurrences unlimited.
5.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Notice to Commence, this shall be issued within fourteen (14) days after signing of Contract Agreement.
6.	Time for Completion (works & sections)	8.2 & 10.2	<u>1085</u> days from the date of receipt of Engineer's Notice to Commence.
7.	Amount of Liquidity Damages/Delay Damages/Penalties	8.7	0.037% of Contract Price, Damages per day but total amount will not be more than 10% of contract Price.
8.	Defects Liability Period	11.1	<u>364</u> days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	14.2	10% of the amount of Interim / Running Payment Certificate.
10.	Limit of Retention Money	14.2	5 % of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim/Running Payment Certificates	14.2	Rs. 450 million
12.	Time of Payment from delivery of Engineer's Interim/Running Payment Certificate to the procuring agency.	14.7	30 days
13.	Mobilization Advance.	14.2	10% of Contract Price stated in the Letter of Acceptance.



**FOREIGN CURRENCY REQUIREMENTS**

1. The bidder may indicate herein below his requirements of foreign currency (if any), with reference to various inputs to the works.
2. Foreign Currency Requirement as percentage of the bid price excluding Provisional Sums %.
3. Table of Exchange Rates

Unit of Currency	Equivalent in Pak. Rupees
Australian Dollar	-----
Euro	-----
Japanese Yen	-----
U.K. Pound	-----
U.S. Dollars	-----
-----	-----
-----	-----

NOT USED



**PRICE ADJUSTMENT UNDER CLAUSE 70/13.8 OF CONDITIONS OF CONTRACT**

**A. Weight ages or coefficients are used for price adjustment.**

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

Index code	Index description	Source of index	Bidder's related currency amount	Weighting
(i)	Fixed Portion		Pak Rs.	0.633
(ii)	Local Labour (Skilled & Unskilled) With unskilled as representative items.	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.140
(iii)	Reinforcing Steel ½ diameter round bar is the representative item for all types of steel to be used in this project.	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.107
(iv)	HSD	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.120
<b>TOTAL</b>				<b>1.00</b>

**Notes:**

- Indices for “(ii)” to “(iv)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- Fixed portion shown here is for typical road project, procuring agency has determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.



- B** **When Escalation is allowed on the materials only.**  
Price adjustment on following items shall be allowed:

Cost Element	Description	Base price	Applicable index
1	2	3	4
(i)	Bitumen		
(ii)	Reinforcing Steel		
(iii)	Cement – in 50 Kg bags		
(iv)	Bricks		

**NOT USED**



## BILL OF QUANTITIES

### A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract (in case of item not mentioned in Bill of Quantities).
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the contract include all costs of contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the contract. Furthermore, all duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids in case of ICB/NCB respectively, shall be included in the rates and prices and the total bid price submitted by the bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the works.
6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the bidding documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with sub-clause 13.5 of Part I, General Conditions of Contract.



**BILL OF QUANTITIES**

**B. Work Items:**

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE  
SUMMARY**

BILL No.	DESCRIPTION	AMOUNT (PKR)	AMOUNT QUOTED BY CONTRACTOR (PKR)
1, 2 & 3	Road Work		
4A	Pre-Stressed Bridges		
4B	Culverts		
5	Protection Work		
6	Ancillary Works		
A	Bill Cost ( )		
	Add: 5% SRB		
B	Grand Total		

NOTE: Rates Are Based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase - II: From Km 11+000 To Km 47+075  
COST ESTIMATE

Bill 1, 2 & 3 - ROAD WORKS							
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)	
<b>1. EARTHWORKS</b>							
101	101	Clearing and Grubbing					
104	104	Compaction of Natural Ground					
SP -1	SP	Formation of Embankment with rock filling					
108c	108	Formation of Embankment from Borrow Excavation in common material					
<b>2. SUBBASE AND BASE COURSES</b>							
206b	206	Water Bound Macadam Base with coarse Agg Class	CM				
<b>3. SURFACE COURSES</b>							
304bi	304	Double surface Treatment	SM				
305b	305	Asphalt concrete for wearing Course "Class B"	SM				
303b	303	Emulsified Asphalt for Bituminous Tack Coat	SM				
<b>TOTAL FOR BILL 1, 2 &amp; 3:</b>							
					Above / Below % _____	Rs.	
					Total Amount Carried to Summary	Rs.	

NOTE: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



BD-4  
Appendix-D to Bid

GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase - II: From Km 11+000 To Km 47+075  
COST ESTIMATE

BILL No. 4A: PRE-STRESSED BRIDGES						
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
407g	407	<b>A- SUB-STRUCTURE</b> Test piles of 1500 mm. dia. Including Boring and concrete class A3 including reinforcement.				
407k	407	confirmatory boring including test reports				
407d	407	Cast-in-place concrete piles (1500 mm diameter) including concrete class A3 but excluding reinforcement. 407dv. Boring only (in Normal soil) 401a. Concrete class A3 in piles				
407l	407	Pile Load Test to 750 tons				
107a	107	Structural excavation in common material.				
107e	107	Common back fill in structures				
401f	401	Lean concrete				
401a	401	Concrete class A1 in a) Approach Slab (on ground)				
401a	401	Concrete class A3 in a) Abutment (on ground) b) Transoms (elevated) c) Piers (Elevated)				
404	404	Reinforcement in substructure including piles as per AASHTO M31. 404b. Grade 60				
406e	406	Elastomeric bearing pads as shown in the drawings				
SP-2	SP	50mm Dia G.I pipe in piles including cross hole sonic logging and velocity Tomographic Imaging of piles complete all respects. a) 50mm Dia G.I. Pipe in piles b) Cross hole sonic logging and velocity Tomographic Imaging of piles.				



BD-5  
Appendix-D to Bid

BILL No. 4A: PRE-STRESSED BRIDGES						
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
		<b>B- SUPER STRUCTURE</b>				
401d	401	Concrete Class D2 in precast prestressed concrete girders.				
405b	405	Launching of P.C. Girders				
401a	401	Concrete Class A3 in deck slabs and diaphragms etc.				
401a	401	Concrete Class A1 in barrier				
406cii	406	50mmExpansion joint -Nosing type with Two Aluminium alloy sections and elastomeric profile imported (West Asian Make)				
404	404	Reinforcement in superstructure as per AASHTO M31. 404b. Grade 60				
P.H.E.W Schedule 2024 Vol-III Part-II Item No: E-6(h), Page-112.	SP-4	Providing, laying UPVC pipes of Class D fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 122 m or 400 ft. (h) 150mm (6" dia)				
Water Supply & Sanitary works Schedule 2024 Vol-III Part-III Chap-5 Item No:1(x), Page-196.	SP-5	Providing G.I pipes & specials and clamps etc. including fitting cutting & fitting complete with & i/c the cost of cutting trench upto 1/2 feet deep refilling with ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to 2 pipes & specials after cleaning & hassain cloth soaked in maxphalt composition wrapped tightly round pipes and testing to a pressure head of 200 ft.				
405a	405	Prestressing strand 1/2" dia including all sheaths Pipes, trumpets, block, stressing anchorage, etc. and grouting, all complete (only strand wire weight measure and paid)				
<b>TOTAL FOR BILL-4A:</b>						
Above / Below % _____					Rs.	
Total Amount Carried to Summary					Rs.	

NOTE: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_



BD-6

Appendix-D to Bid

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase - II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

BILL No. 4B: CULVERTS						
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
107a	107	Structural excavation in common material				
107b	107	Structural excavation in common material below water level				
401f	401	Lean concrete				
401aii	401	Concrete Class A3 (culverts i/wing wall, aprons & etc.)				
404b	404	Reinforcement steel as per AASHTO M31 grade 60				
107d	107	Granular backfilling				
406a	406	Pre-moulded joint filler with bitumatic joint filler				
406d	406	Water stops 8"				
509b	509	Chip rap class B				
<b>Total for Bill No. 4B</b>						
Above / Below % _____					Rs.	
Total Amount Carried to Summary					Rs.	

NOTE: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



BD-7  
Appendix-D to Bid

GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE

Bill No. 5: PROTECTION WORKS						
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
107b	107	Structural Excavation in common material below water level	CM			
401f	401	Lean Concrete	CM			
509a	509	Rip Rap Class A	CM			
509b	509	Rip Rap Class B	CM			
509c	509	Rip Rap Class C	CM			
509h	509	Filter Layer of Granular Material	CM			
<b>TOTAL FOR BILL No. 5:</b>						
Above / Below % _____					Rs.	
Total Amount Carried to Summary					Rs.	

NOTE: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



BD-8  
Appendix-D to Bid

GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE

Bill No. 6: ANCILLARY WORKS						
PAY ITEM	SPEC. REF.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
604-a	604	Metal Guard Rail				
604-b	604	Metal Guard Rail End Pieces				
604-d	604	Steel Post for Metal Guard Rail				
607bi	607	Traffic sign CAT 2i- 90cm sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge				
607ci	607	Traffic sign CAT 3A sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge				
607di	607	Traffic sign CAT 3B sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge				
608h2	607	Paint marking in reflective paint for Line of 15 cm width				
609d	609	Reflectorized Aluminium Pavement Studs (raised profile type double)				
SP -3	SP	Gantry Sign				
<b>TOTAL FOR BILL No. 6</b>						
Above / Below % _____					Rs.	
Total Amount Carried to Summary					Rs.	

NOTE: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



## BILL OF QUANTITIES

### Day work Schedule

#### General

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for day work items in the Schedules, which rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall be carried forward to the bid price.

#### Day work Labour

2. In calculating payments due to the contractor for the execution of day work, the actual time of classes of labour directly doing the day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The contractor shall be entitled to payment in respect of the total time that labour is employed on day work, calculated at the basic rates entered by him in the Schedule of day work Rates for labour together with an additional percentage, payment on basic rates representing the contractor's profit, overheads, etc., as described below:
  - a) the basic rates for labour shall cover all direct costs to the contractor, including (but not limited to) the number of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
  - b) the additional percentage payment to be quoted by the bidder and applied to costs incurred under (a) above shall be deemed to cover the contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of staging's, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.



**SCHEDULE OF DAYWORK RATES**

**I. Labour**

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr.	500			
D102	Labour	Hr.	5,000			
D103	Brick layer	Hr.	500			
D104	Mason	Hr.	500			
D105	Carpenter	Hr.	500			
D106	Steel work Erector	Hr.	500			
	-----etc.-----		500			
D113	Driver for vehicle up to 10 tons	Hr.	1,000			
D114	Operator for excavator, dredge, shovel or crane	Hr.	500			
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr.	500			
D122	<p><b>Sub Total</b>            Allow _____ percent of subtotal for Contractor's overhead, profit, etc. in accordance with Paragraph 3(b) of Day work Schedule _____            Total for Day work: Labour: _____            (Carried forward to Day work Summary)</p>					



### Day work Material

4. The contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Day work Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
- a) The basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
  - b) The additional percentage payment shall be quoted by the bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
  - c) The cost of hauling materials used on work ordered to be carried out as Day work from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.



**SCHEDULE OF DAYWORK RATES**

**II. Materials**

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in (Words)	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M: Ton	200			
D202	Mild Steel reinforcing bar up to 16mm diameter to BS 4449 or equivalent	M: Ton	100			
D203	Fine aggregate for concrete as specified in Clause _____	Cu: M	1,000			
D204	.....etc.....					
D222	Gelignite (Noble Special Gelatine 60 % or equivalent) including cap, fuse, wire and requisite accessories	M: Ton	10			
D223	<p><b>Sub Total</b></p> <p>Allow _____ percent of subtotal for Contractor's overhead, profit, etc. in accordance with Paragraph 4(b) of Day work Schedule. Total for Day work: Materials (Carried forward to Day work Summary) _____</p>					



**BD-15**  
**Appendix-D to Bid**

**Day Work Constructional Plant**

5. The contractor shall be entitled to payments in respect of constructional plant already on site and employed on Day work at the basic rental rates entered by him in the Schedule of Day work Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Day work Labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the site where the constructional plant was located when ordered by the Engineer to be employed on Day work and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Day work shall be stated in Pakistani Rupees.



**SCHEDULE OF DAYWORK RATES**

**III. Constructional Plant**

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator, face shovel or dragline: 1. Up-to and including 1 Cu.M. 2. Over 1 Cu.M to 2 Cu. M. 3. Over 2 Cu. M	Hr. Hr. Hr.	500 400 100			
D302	Tractor (tracked) including bull or angle dozer: 1. Up-to and including 150 HP 2. Over 150 to 200 HP 3. Over 200 to 250 HP	Hr. Hr. Hr.	500 400 200			
D303	Tractor with ripper: 1. Up-to and including 200 HP 2. Over 200 to 250 HP	Hr. Hr.	400 200			
D304	..... Etc.....					
Total for day work: Constructional Plant _____ (Carried forward to day work summary)						



BD-17

Appendix-D to Bid

DAYWORK

Summary (Day work)

	Amount (Rs.)
(I) Total for day work: Labour: _____	
(II) Total for day work: Materials: _____	
(III) Total for day work: Constructional Plant: _____	
Total for day work (Carried forward to summary page of Bill of Quantities): _____	

**TO BE SUBMITTED IN SEPARATE ENVELOPE AS  
 FINANCIAL BID**  
 SINGLE STAGE – TWO ENVELOPES (SSTE) BIDDING PROCEDURE



### **PROPOSED CONSTRUCTION SCHEDULE**

Pursuant to Sub-Clause 8.2 & 8.3 of the General Conditions of Contract, the works shall be completed on or before the date stated in Appendix-A to Bid. The bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed program for completion of the whole of the works and parts of the works may meet procuring agency's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

	<u>Description</u>	<u>Time for Completion</u>
1)	Whole works	1085 days



### **METHOD OF PERFORMING THE WORK**

[The bidder is required to submit a narrative outlining the method of performing the work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.



### LIST OF MAJOR EQUIPMENT – RELATED ITEMS

[The bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]



**LIST OF MAJOR EQUIPMENT (SAMPLE)**

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	2	3	4	5	6	7
a. Owned						
b.To be Purchased						
c.To be arranged on Lease						



### **CONSTRUCTION CAMP AND HOUSING FACILITIES**

The Contractor in accordance with Clause 6 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the contractor's construction camp.



**LIST OF SUBCONTRACTORS**

I/We intend to subcontract the following parts of the work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	Subcontractor (With Complete Address)
1	2



### ESTIMATED PROGRESS PAYMENTS (SAMPLE)

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Program of the works and the Rates in the Bill of Quantities, expressed in Pakistani Rupees:

Quarter/ Year/ Period	Amounts (in thousands)
1	2
1 <sup>st</sup> Quarter	
2 <sup>nd</sup> Quarter	
3 <sup>rd</sup> Quarter	
4 <sup>th</sup> Quarter	
5 <sup>th</sup> Quarter	
6 <sup>th</sup> Quarter	
7 <sup>th</sup> Quarter	
8 <sup>th</sup> Quarter	
9 <sup>th</sup> Quarter	
10 <sup>th</sup> Quarter	
11 <sup>th</sup> Quarter	
12 <sup>th</sup> Quarter	
<b>Bid Price</b>	



**ORGANIZATION CHART FOR THE SUPERVISORY STAFF AND LABOUR**

(To be filled in by the bidder)



**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY CONTRACTORS.  
(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)**

Contract No: \_\_\_\_\_ Dated: \_\_\_ / \_\_\_ /2026 Contract Value: \_\_\_\_\_

Contract Title: Construction for Sindh Coastal Highway, Phase-II  
from Km 11+000 To Km 47+075 (36.00 Km)

\_\_\_\_\_ [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

\_\_\_\_\_ [name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

\_\_\_\_\_ [name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

\_\_\_\_\_  
[Procuring Agency]

\_\_\_\_\_  
[Contractor]

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
(Works & Services Department)



## FORMS

### BID SECURITY PERFORMANCE SECURITY CONTRACT AGREEMENT MOBILIZATION ADVANCE GUARANTEE INDENTURE BOND FOR SECURED ADVANCE



BS-1

**BID SECURITY  
(Bank Guarantee)**

Security Executed on: \_\_\_/\_\_\_/2026

Name of Surety (Bank) with Address: \_\_\_\_\_ (Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address: \_\_\_\_\_

Penal Sum of Security Rupees. \_\_\_\_\_ (Rs. \_\_\_\_\_)

Bid Reference No. \_\_\_\_\_ KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto \_\_\_\_\_ (hereinafter called the 'Procuring Agency') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying bid dated \_\_\_/\_\_\_/2026 for Bid No. for \_\_\_\_\_ (Particulars of Bid) to the said Procuring Agency; and

WHEREAS, the Procuring Agency has required as a condition for considering said bid that the **bidder** furnishes a bid security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the procuring agency, conditioned as under:

- (1) That the bid security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to bidders or as it may be extended by the procuring agency, notice of which extension(s) to the Surety is hereby waived;
- (2) That the bid security of unsuccessful bidders will be returned by the procuring agency after expiry of its validity or upon signing of the Contract Agreement; and
- (3) That in the event of failure of the successful bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said procuring agency pursuant to Clause 15.6 of the Instruction to bidders for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency in accordance with his bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said procuring agency for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.



PROVIDED THAT the Surety shall forthwith pay the procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the procuring agency forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

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

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

WITNESS:

1. Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**FORM OF PERFORMANCE SECURITY  
(Bank Guarantee)**

[Letter by the Guarantor to the Procuring Agency]

Guarantee No: \_\_\_\_\_ Executed on: \_\_/\_\_/2026 Expiry date: \_\_/\_\_/2026

Name of Guarantor (Bank) with address: \_\_\_\_\_  
*(Scheduled Bank in Pakistan)*

Name of Principal (Contractor) with address: \_\_\_\_\_

Penal Sum of Security (express in words and figures): \_\_\_\_\_

Letter of Acceptance No: \_\_\_\_\_ Dated: \_\_/\_\_/2026

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the bidding documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the \_\_\_\_\_ (hereinafter called the procuring agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said procuring agency, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has accepted the procuring agency's above said Letter of Acceptance for \_\_\_\_\_ (Name of Contractor) for the Construction for Sindh Coastal Highway, Phase-II: From Km 11+000 To Km 47+075 (36.00 Km).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the procuring agency, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the procuring agency without delay upon the procuring agency's first written demand without cavil or arguments and without requiring the procuring agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the procuring agency's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Procuring Agency's designated Bank & Account Number.



PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the procuring agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

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

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

WITNESS:

1. Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



CA-1

### FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the \_\_\_\_ day of \_\_\_\_ 2026 between Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works & Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad. (hereafter called the “Procuring Agency”) of the one part and M/s. \_\_\_\_\_ (hereafter called the “Contractor”) of the other part.

WHEREAS the Procuring Agency is desirous that certain works, viz Construction for Sindh Coastal Highway, Phase-II: From Km 11+000 To Km 47+075 (36.00 Km), should be executed by the Contractor and has accepted a bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.

NOW this Agreement witnesses 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.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
  - (a) The Contract Agreement;
  - (b) The Letter of Acceptance;
  - (c) The completed Form of Bid;
  - (d) Special Stipulations (Appendix-A to Bid);
  - (e) The Special Conditions of Contract – Part II;
  - (f) The General Conditions – Part I;
  - (g) The priced Bill of Quantities (Appendix-D to Bid);
  - (h) The completed Appendices to Bid (B, C, E to L);
  - (i) The Drawings;
  - (j) The Specifications.
  - (k) \_\_\_\_\_(any other)
3. In consideration of the payments to be made by the procuring agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the procuring agency to execute and complete the works and remedy defects therein in conformity and in all respects with the provisions of the contract.
4. Procuring agency hereby covenants to pay the contractor, in consideration of the execution and completion of the works as per provisions of the contract, 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.



CA-2

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

\_\_\_\_\_  
Signature of the Contactor

(Seal)

\_\_\_\_\_  
Signature of Procuring Agency

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

\_\_\_\_\_  
(Name, Title and Address)

\_\_\_\_\_  
(Name, Title and Address)

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



MG-1

### MOBILIZATION ADVANCE GUARANTEE

Bank Guarantee No: \_\_\_\_\_ Date: \_\_/\_\_/2026

WHEREAS Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works & Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad. (hereinafter called the 'Procuring Agency') has entered into a Contract for Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Phase-II: From Km 11+000 To Km 47+075 (36.00 Km), with M/s. \_\_\_\_\_ (hereinafter called the "Contractor").

AND WHEREAS, the Procuring Agency has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees \_\_\_\_\_ (Rs \_\_\_\_\_) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Procuring Agency has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, \_\_\_\_\_ (*Scheduled Bank in Pakistan*) (hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the **procuring agency** agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above-mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the procuring agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the procuring agency shall be the sole and final judge, on the part of the Contractor, shall be given by the procuring agency to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until \_\_/\_\_/2026 whichever is earlier.

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above-mentioned date, the advance payment is not fully adjusted.



GUARANTOR

\_\_\_\_\_  
 Signature

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Guarantor (Seal)

WITNESS

1. Name: \_\_\_\_\_

2. Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corporate Secretary (Seal) Corporate Secretary (Seal)



### INDENTURE FOR SECURED ADVANCES.

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time).

This INDENTURE made the \_\_\_\_ day of \_\_\_\_\_ 2026, BETWEEN \_\_\_\_\_ (hereinafter called "the Contractor" which expression shall where the context so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF SINDH (hereinafter called "the Government" of the other part).

WHEREAS by an agreement, dated \_\_/\_\_/2026 (hereinafter called the said agreement, the contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said work):-

**Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto,  
Phase-II: From Km 11+000 to Km 47+075 (36.00 Km)**

AND WHEREAS the contractor has applied to the Project Director, Extension / Construction of 36 – Kilometer Sindh Coastal Highway, Thatto, Works & Services Department, at 1<sup>st</sup> Floor Chief Engineer Highways Office, Shahbaz Building, Hyderabad, for an advance to him of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement for use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND WHEREAS the Government has agreed to advance to the Contractor the sum of Rupees, \_\_\_\_\_ (Rs. \_\_\_\_\_) on the security of materials, the quantities and other particulars of which are detailed in Part II of Running Account Bill (B). The said works signed by the contractor Fin R.Form.17.A On \_\_/\_\_/2026 and on such covenants and conditions as are hereinafter contained and the Government has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_) on or before the execution of these presents paid to the Contractor by the Government (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid (all of which advances are hereinafter collectively referred to as the said amount) the Contractor doth hereby assign unto the Government the said materials by way of security for the said amount

And doth hereby covenant and agree with the Government and declare as follow:-

- (1) That the said sum of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced as aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.



- (2) That the materials detailed in the said Running Account Bill (B) which have been offered to and accepted by (he Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify and save harmless the Government against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the said materials detailed in the said Running Account Bill (B) and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in *the* execution of the said works in accordance with the directions of the Chief Engineer \_\_\_\_\_ (hereinafter called the Chief Engineer) and in the terms of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (The Chief Engineer) or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Chief Engineer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.
- (5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Chief Engineer or an officer authorized by him in that behalf
- (6) That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (Then actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.
- (7) at if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date or repayment and with all costs,



charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (he default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.

- (8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that not, withstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly. Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best: -
- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor, he is to pay the same to the Government on demand.
  - (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these presents and pay over the surplus (if any) to the Contractor.
  - (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except as is expressly provided by the presents interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer / Executive District Officer / Officer one grade higher to officer signed the agreement Circle whose \_\_\_\_\_ decision shall be final and the provisions of the Arbitration Act 1940 for the time being in force so far as they are applicable shall apply to any such reference.

Signed, sealed and delivered by\*Signed, sealed and delivered by\*  
In the presence of in the presence of:

SEAL

1<sup>st</sup> witness

SEAL

2<sup>nd</sup> witness



## NOTES ON THE CONDITIONS OF CONTRACT

The Conditions of Contract comprise two parts:

- (a) **Part I** - **General Conditions of Contract**
- (b) **Part II** - **Special Conditions of Contract**

Over the years, a number of “model” General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation International des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the harmonized Edition March 2006).

The FIDIC Conditions of Contract are hereby referred to in the bidding documents, and the bidders are required to obtain copies directly from FIDIC. \*

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Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC CASE POSTALE, CH-1215 Switzerland; Tel. +41 22 799 49 00;  
Fax; +41 22 799 49 01  
E-mail: [fidic@fidic.org](mailto:fidic@fidic.org).



Conditions of Contract for  
CONSTRUCTION FOR BUILDING AND ENGINEERING WORKS DESIGNED BY THE EMPLOYER

Multilateral Development Bank Harmonized Edition March 2006



## PART II - SPECIAL /PARTICULAR CONDITIONS OF CONTRACT

### 1.1 Definitions

1.1.1.4 “Form of Bid” is synonymous with “Letter of Tender”.

1.1.1.5 “Bid” is synonymous with “Tender”.

1.1.1.10 “Bidding” is synonymous with “contract”.

*The following paragraph is added:*

1.1.1.11 “Programme” means the programme to be submitted by the contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.1.2.2 “Employer” is synonymous with “Procuring Agency”

1.1.2.9 “DB” is synonymous with “Committee”.

1.1.3.1 Replace 28 days by 7 days in LCB and 15 days in ICB.

1.1.3.7 “Defects notification Period” is synonymous with “Defects liability Period”.

### 3.1 Engineer’s Duties and Authority.

*The following paragraph is added after duties:*

Procuring agency shall ensure that the Engineer’s Representative/Staff is a professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

### 4.3 Contractor’s Representative

*The following text is to be added after last line:*

The contractor’s authorized representative and his other professional engineers working at site shall register themselves with the Pakistan Engineering Council.

### 6.10 Records of Contractor’s Personnel and Equipment

*The following paragraph is added:*

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor’s Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.



*The following sub-clause 7.9 is added in (GCC):*

## **7.9 Use of Pakistani Materials and Services**

The contractor shall, so far as may be consistent with the contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

### **8.1 Commencement of Works**

The last para is deleted and substituted with the following:

The contractor shall commence the works on site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the contractor shall proceed with the works with due expedition and without delay.

8.11 Prolonged Suspension Replace 84 days by 120 days.

### **8.3 Programme**

*The following text is to be added after [Commencement of Works]*

The programme shall be submitted in the either form of:

- a) Bar Chart identifying the critical activities.
- b) Critical Path Method (CPM) identifying the critical path/activities.
- c) Program Evaluation and Review Techniques (PERT).

### **13.1 Right to vary**

In the last line of Para, after the word "Variation", the word "in writing" is added.

### **13.3 Variation procedure**

In the tenth line, after the words "as soon as practicable" following is added: "and within a period not exceeding one-eighth of the completion time"

### **13.8 Adjustment for changes in cost**

*The following provision is added for Local funded Project/ Schemes/National Competitive Bidding Contracts:*

The amounts payable to the Contractor, pursuant to Sub-Clause 14.6, shall be adjusted in respect of the rise or fall in the cost of materials only, and will be paid to the contractor on those items mentioned in the **Appendix –C (B)**. Similarly, reduction in the cost of these materials will also be recovered from the contractor accordingly



14.1 The Contract Price Sub-para (d) is deleted.

## 14.2 Advance Payment

*The Text is deleted and replaced with following:*

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions:

### Mobilization Advance/Advance Payment

- (i) Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs 2.5 million or above on following conditions:
- a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;
- b. [XXX]<sup>1</sup>
- (ii) This Advance [XXX] shall be recovered in 5 equal installments (from IPC 02 to IPC 06) from the 5 R.A bills and in case the number of bills is less than 5 then 1/5 of the advance [XXX] shall be recovered from each bill and the balance [XXX] be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

### 14.5 Plants and Materials intended for Works

*Add the following paragraph as sub-clause 14.5 (d) for Secured Advance on non – perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants only: -*

- (l) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:
- (i) The materials are in accordance with the specifications for the permanent works;
- (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;
- (iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;

<sup>1</sup> Deleted in the light of amendment in Sindh Financial Rules, vide Finance Department's Notification dated 27<sup>th</sup> April, 2017 and approval from SPPRA Board in its 30<sup>th</sup> Meeting held on 9<sup>th</sup> August, 2017.



- (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;
- (v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;
- (vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;
- (vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;
- (viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and
- (ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

**(II) Recovery of Secured Advance:**

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized);

**14.8 Delayed Payment**

*Second Para is replaced with following text:*

No interest shall be paid on delayed payments

**15.2 Termination by Employer**

*The following Para is added at the end of the sub-clause:*

Provided further, that in addition to the action taken by the procuring agency against the Contractor under this Clause, the procuring agency may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

**15.6 Corrupt and fraudulent Practices.**

*The following text is to be added as 3<sup>rd</sup> paragraph:*



*Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above). If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:*

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under sub-para (b) of this Sub-Clause shall proceed in the manner prescribed under sub-clauses 15.2 & 15.5 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the procuring agency under Sub-Para (a) and (c) of this Sub-Clause.

#### **16.4 Payment on Termination**

Sub-paragraph (c) is deleted.

#### **17.3 Employer's/ Procuring Agency's Risks**

Sub-Clause 17.3 (h) is deleted.

#### **18.1 General Requirements for Insurance**

*The following text is added in Clause 18.1 (GCC):*

The contractor shall be obliged to place all insurances relating to the contract (including, but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer/Procuring Agency valid for a period 28 days after beyond the Bid Validity date. Costs of such insurances shall be borne by the contractor.

#### **19.6 Optional Termination, Payment and release by the Employer**

Sub-clauses (c), (d) and (e) are deleted.

#### **20.6 Arbitration**

*Text will be replaced as under; Any dispute in respect of which:*

- (a) *the decision, of the Dispute Board has not become final and binding pursuant to sub- clause 20.2, and*



- (b) *amicable settlement has not been reached within the period stated in sub-clause 20.5, shall be finally settled, under the provisions of the Arbitration Act, 1940 as amended or any statutory modification/Rules of Conciliation and Arbitration PEC Islamabad or re-enactment thereof for the time being in force.*

The place of arbitration shall be Karachi, in Sindh Province.



## PART II –SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

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## SPECIFICATIONS SPECIAL PROVISIONS



## SPECIFICATIONS – SPECIAL PROVISIONS

### 1 General

These specifications are for items of works not covered in general Specifications, noting that the various descriptions and requirements are not necessarily repeated for each separate section of the works: they shall apply to all parts of the works to which they are applicable even where the relevant reference is not made.

### 2 Location of Works

Construction for Sindh Coastal Highway, Phase - II: From Km 11+000 To Km 47+075 (36.00 Km). The Project is located in District Thatta along the coastal belt.

### 3 Site of Works

3.1 Within the areas which may from time to time be defined as the Site by the Engineer, the Contractor shall carry out and undertake construction of the Works, and, subject to the approval of the Engineer, will be permitted to construct temporary roadways, camps, buildings and Temporary Works which he may require for the construction of Works at the site. If the Contractor wishes to use any land other than aforesaid for construction of camps or for any other Contract purposes, the Contractor shall make all necessary arrangements with the owner thereof and shall bear all rentals or other costs connected therewith. The Contractor shall make his own arrangements for borrowing the approved material as and where required.

The Employer will give to the Contractor possession of as much of the area designated and defined as the Site and shown in the Drawings as may be required to commence and proceed with the Works, when the Engineer's Order to commence Works is given.

### 4 Scope of Work

4.1 The Contractor is required to get the approval of the Engineer for the alignment of Roads, and location of related structures. The location of the works as specified in the drawings may be changed by the Engineer who will first inspect the area at site in order to verify the topographical justifications.

4.2 The Contractor shall procure, furnish, provide and arrange for all the necessary construction equipment, transportation, fuel, electric power, water and other services, and shall perform all other works necessary for completion of the Works described here in conformity with these Specifications.



## 5 General Description of Works

- 5.1 The construction of following major works is included but not limited to under this Contract: Construction for Sindh Coastal Highway, Phase - II: From Km 11+000 To Km 47+075 (36.00 Km).
- 5.2 The Drawings show in detail the plans profiles and sections of road and all related structures. Contractor shall perform the necessary execution as shown in the Drawings and use the required materials according to the specification as shown in the Drawings for the works.
- 5.3 The Contractor shall construct all the structures according to the Drawings and Specifications. The Contractor shall be responsible for maintaining the existing facilities as specified and directed by the Engineer, while the construction works is in progress till such time that the new structure becomes capable of serving its intended purpose.

## 6 Technical Specifications

The Contractor shall carry out the execution of the works in accordance with the General Specifications of National Highway Authority (December 1998) laid out in the "Specifications-Technical Provisions" Volume-II of Bidding Documents.

## 7 Contract Drawings

### 7.1 Tender Drawings

The Drawings as listed in the List of Drawings (Vol-3) and hereinafter referred to as Tender Drawings show the scope of the Works to be performed by the Contractor. The Tender Drawings shall not be used as a basis for construction but may be used as a basis for Tendering.

### 7.2 Construction Drawings

The Drawings issued for construction may include Tender Drawings reissued, Tender Drawings as may be modified, and additional Drawings as required to develop the work in greater detail, and will show modifications as necessary for further detailing and construction required. The work shall be executed in conformity with the Drawings issued for construction.

### 7.3 Definition of Drawings

Definition of term Drawings, as used throughout the Specifications applies to the Drawings issued for Construction as described in Sub-Clause 1.1.1.6, Drawings issued for construction herein above.

### 7.4 Checking Drawings

The Contractor shall check all Drawings issued for construction carefully as soon as practicable after receipt thereof, and shall promptly advise the Engineer if any errors, discrepancies or omissions are noticed.



### 7.5 Shop Drawings

Whenever required by the Specifications or the Drawings and for all materials or equipment to be fabricated, manufactured and furnished by the Contractor, the Contractor shall make assembly and detailed shop drawings as required before proceeding with the work. All such drawings shall be adequately and properly checked before submittal to the Engineer for approval and shall be so designated. Four copies of such drawings shall be submitted to the Engineer in the form of prints from the original checked drawings. One print each of these drawings will be returned to the Contractor by the Engineer, marked "Approved", "Approved Except as Noted", or "Returned for Correction". The notes "Approved or "Approved Except as Noted" will authorize the Contractor to proceed with the fabrication and manufacture of the equipment covered under such drawings, subject to the corrections, if any, noted thereon. When prints of drawings have been marked "Returned for Correction", the Contractor shall make the necessary revisions on the drawings and shall, within 30 days, submit prints for approval in the same manner as before. Any fabricating or manufacturing during or before approval of the drawings will be at the Contractors risk. The Engineer shall have the right to require the Contractor to make any changes in the design which may be necessary, in the opinion of the Engineer, to make the materials or equipment conform to the requirements and intent of Specifications without additional cost to the Employer.

Approval of the Contractor's drawings shall not relieve the Contractor of any part of his obligation to meet all of the requirements of Specifications or of the responsibility for the correctness of his Drawings.

At the time of delivery of the equipment or materials, the Contractor, if requested to do so, shall furnish to the Engineer two complete sets of reproducible of all finally approved Drawings.

### 7.6 Other Drawings

Drawings showing proposed method of constructing the Temporary Works and other additional drawings to those referred to herein above required by the Specifications, shall also be submitted to the Engineer for approval.

### 7.7 Ownership of Drawings etc.

All the drawings, details, bill of materials and any other information or documents furnished by the Contractor shall become the property of the Employer and shall be non-returnable.

## 8 Cooperation with Other Contractors

The construction of the Works under the Contract may involve the construction of certain works and structures, in the vicinity of works being constructed under the Contract, by other Contractors working for the Employer. Nothing contained herein and nothing marked on the Drawings shall be interpreted as giving the Contractor or other Contractors of the Employer exclusive occupancy of the right-of-way (ROW) provided by the Employer. When the right-of-way (ROW) of one Contract is necessary or convenient means of access for the execution of another Contract, such privilege of access or any other reasonable privilege shall be granted by the Contractor or by other Contractors working for the Employer to the extent, amount, in the manner and at the times necessary. Any difference or conflict which may arise between the



Contractor and other Contractors working for the Employer shall be resolved/decided by the Engineer. No joint occupancy or use of right-of-way (ROW) shall make the basis of any claim for delay or damages to the Employer.

## 9 Access and Haul Routes

9.1 The Contractor shall make his own investigation of the condition of available roads/routes and of clearance, restrictions, road limits and other limitations that effect or may affect transportation and ingress and egress at the job Site. The unavailability of transportation facilities or limitations thereon shall not become a basis for claims for damages or extensions of time of completion of Works.

The Contractor shall be solely responsible, at his own cost and risk, for the construction, operation, and maintenance of any access roads, haul roads, bridges, drainage structures, or other temporary works required for construction operations.

The Contractor shall not use the road section under construction from Chainage 0+000 to 11+000 for hauling, transportation of materials, plant, equipment, or for any construction-related traffic whatsoever.

The Contractor shall obtain all necessary permits and approvals for travel on, or for any work within, the right-of-way (ROW) of public roads.

9.2 Existing metalled road is available for the Contractor's use. The Contractor shall meet all conditions imposed upon the use of the existing road by local authorities having jurisdiction thereover, including (without limitation of the generality of the foregoing) seasonal or other limitations or restrictions, the payment of excess size and weight fees, and the repair of road damage caused by the Contractor.

9.3 The hauling of sand, gravel, other materials, or other intrados hauling, over the existing public highways, roads, or bridges shall be in compliance with the applicable local regulations and shall be such as to minimize interference with or congestion of local traffic. Where haul routes cross public highways or roads, the Contractor shall provide barricades, flagmen, and other necessary precautions for safety of the public.

9.4 The repair and replacement of roadways, drains and canal banks either damaged or removed shall be the responsibility of the Contractor. The Contractor shall limit his loads, speeds and hauling operations over the existing roads so to minimize the damage by Contractor activities to existing facilities. Ruts and scars resulting from the Contractor's operations shall be removed; damage to banks shall be corrected; and the banks and operating roads shall be restored as nearly as practicable to their original condition or as approved by the Engineer before final acceptance of the Work.

9.5 The cost incurred by the Contractor for performance of his responsibilities referred to above, shall be included in the price tendered in the Bill of Quantities for items of Work.



## 10 Right to Change

When additional information regarding the geotechnical investigations or other conditions becomes available as a result of excavation, testing or exploratory work, the Engineer may find it desirable to change alignment, dimensions, or design of one or more of the features of the Works to conform to the newly disclosed conditions. Towards this end the Engineer reserves the right to make such reasonable changes, and the Contractor's plant shall be laid out and his operations shall be conducted so as to accommodate any such reasonable changes in the Works with no increase in cost of the Employer.

## 11 Safety, Health and Security

### 11.1 Safety

During execution of the Works the Contractor shall provide working condition on each operation that shall be as safe and not injurious to health as the nature of that operation permits. All the work shall be performed in accordance with applicable local and national laws, codes, requirements and regulations including safety, health, welfare of persons and others.

The Contractor shall observe high standards of safety for men and machines at all times and with regard to safety, the Contractor shall comply with existing Government of Pakistan Labor Safety Laws. The Contractor shall protect men working in trenches by proper back sloping and/or other measures. A person shall not work alone in trench. The Contractor shall protect personnel from the moving parts of the machines by installing and maintaining proper guards. In case of any casualty or damage to any person due to Contractor's negligence during operation, the Contractor shall pay due compensation. The Contractor shall not permit casual observers close to excavating operation.

The Contractor shall in connection with the Works provide and maintain at his own cost all lights, guards, fencing and watching when and where necessary or required by the Engineer or by any duly constituted authority, for the protection of the Works, or for the safety and convenience of the public or others.

### 11.2 Health

The Contractor shall provide, operate and maintain at his own expense suitable dispensary/first-aid center ambulance and para-medical staff at Site and Camp for use by his staff and labor.

### 11.3 Clean-up of Contractor's Area

The Contractor shall at all times keep the construction area, including storage areas used by him, free from accumulations of waste material or rubbish.



#### 11.4 Security

Contractor will be solely and wholly responsible for its security as per NACTA SOP, Security agencies, District Administration or as per advice of The Engineer.

#### 11.5 Accident & Fire Prevention

The Contractor shall enforce all necessary rules & regulations for the safe execution of the work in order to avoid preventable accidents and to minimize injuries to his employees and to those of concerned entities. In parallel, all reasonable precautions shall be taken against fire and provisions shall be made for the expeditious extinguishing thereof.

#### 11.6 Site specific HSE Plan

The Contractor will prepare a site specific HSE Plan.

#### 11.7 Approvals

The Contractor will be responsible to arrange all permits related to Environment/HSE.

### 12 Contractor's Camp

The Contractor's camp shall comply with the Pakistan Labor Camp Rules, 1960, issued by the Pakistan, Health, Welfare and Local Government Department, and the requirements set forth therein.

### 13 Quantities

The quantities set forth in the Bill of quantities are in no case exact quantities and in some instances are impossible of determination until after conditions have become known during constructions. The quantities shown in the Bill of Quantities are for use as a basis for comparing Tenders only, and the Employer does not expressly or by implication agree that the actual amount of work performed or material furnished or installed will correspond therewith; and further, during the progress of work, the Engineer may find it advisable and shall have the right to make changes in locations of portions of the work, to omit portions of the work, and to increase or decrease the quantities, as may be deemed necessary or desirable. Under no circumstances or conditions will the Contractor be paid anything on account of anticipated profits from the work, or any portion thereof covered by the Contract, which is not actually performed. Nor will the Contractor be paid more than the unit rates Tendered for any item in the Bill of Quantities contained in the Tender because the actual quantity is greater or less than the quantity shown in the Bill of Quantities except as otherwise provided elsewhere in the Contract.

### 14 Surveying

- 14.1 The Engineer has established, in the vicinity of Work, basic horizontal and vertical control based on Survey of Pakistan Trigonometrically Station and Standard Bench



Marks, to serve as basis for all horizontal and vertical measurements by the Contractor. The basic control consists of concrete monuments, their location, descriptions, coordinates and elevations will be made available by the Engineer, and shall be given on drawings. The Contractor may check this control for his own satisfaction. In case of any discrepancy the Contractor can approach the Engineer for removing this discrepancy.

- 14.2 The Contractor shall be responsible for the true and proper setting-out of the Works in relation to original points, lines and levels of reference given by the Engineer for the correctness of the position, levels, dimensions and alignment of all parts of the Works. If, at any time during the progress of the Works, any error shall appear or arise in the position, levels, dimensions, or alignment of any part of the Works, the Contractor on being required so to do by the Engineer shall, at his own cost, rectify such error to the satisfaction of the Engineer. The checking of any setting-out or of any line or level by the Engineer shall not in any way relieve the Contractor of his responsibility for the correctness thereof.
- 14.3 Based upon Engineer's basic control, the Contractor shall provide his own primary control points, as needed for the Works, and shall preserve and maintain them until otherwise authorized.
- 14.4 The Contractor shall be responsible for maintaining all survey markers/monuments, cadastral corners, and property corners. If any markers/monuments are destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer. If a monument cannot be replaced in its original position, the Contractor shall install a witness corner. The Contractor shall complete and file monument reference cards on all monuments set with the Engineer.
- 14.5 The Contractor shall provide experienced construction surveyors, and survey work shall be under the supervision and direction of an engineer or surveyor with adequate experience in the construction surveys similar in nature as required by this Contract. All survey work performed by the Contractor shall be subject to field and office review by the Engineer.
- 14.6 The Contractor shall submit to the Engineer for his approval the following:
- At least 14 days prior to beginning surveying work, a complete plan for the surveying required to layout the Works, including methods and time tables for establishing lines and grades.
  - At least 14 days prior to beginning surveying work, the Contractor shall submit, for review and resolution as required, results of the Contractor's check on the accuracy of Engineer established basic control.
  - Within 2 days of completing and producing notes for a survey or portion of



survey, the Contractor shall submit, for review and filing, a copy of such notes. Within 2 days of completing a field survey book, the Contractor shall submit, for review and filing, the original field survey book.

- Accompanying progress payment requests, the Contractor shall submit, for approval, a copy of applicable quantity survey notes and computations and an itemized statement for work performed or placed during the progress period measured on the basis of surveying.

14.7 Based upon Engineer's established basic control monuments, the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed in these Specifications or in the Drawings.

14.8 The Contractor shall establish such additional stakes, markers, and other points as may be necessary for control, intermediate checks, and guidance of construction operations.

14.9 The Contractor shall perform such survey and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys necessary for the Engineer to determine final quantities of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

14.10 The Contractor shall notify the Engineer at least 24 hours before performing a quantity survey and, unless specifically waived, quantity surveys shall be performed in the presence of an authorized representative of the Engineer.

14.11 The Contractor shall be required to carry out surveys for works as follows:

- Alignment staking - each 20 m on tangents; each 10 m on curves.
- Slope staking - each 20 m on tangents; each 10 m on curves; restake every 5 m in elevation.
- Stake out structures; checkout prior to and during construction; and set temporary construction bench marks at each structure location for use during construction of the structure.
- Cross-section, original, final, and intermediate as required, for structure sites and other locations as necessary for quantity surveys.
- "As built" -As required for structures and other features of the work.
- Land Surveys - for replacement of disturbed existing survey markers/monuments.

14.12 Accuracy - Degree of accuracy for the survey works shall satisfy the following specified tolerance:



- Structure points shall be set within 0.001 m accuracy from point to point, except where installation or operation considerations require tighter tolerances.
- Slope staking shall be set within 0.001 m
- Cross-section points shall be located within 0.05 m, horizontally and 0.005 m vertically.
- Permissible closing error for a leveling line meant for establishing Temporary Bench Marks (TBMs) should not exceed  $0.01 \times \text{KM}$  (m), where KM is in kilometers. The permissible closing error should duly be adjusted.

14.13 The Contractor shall provide all materials and equipment required for surveying work, including, but not limited to, instruments, stakes, spikes, steel pins, templates platforms, and tools, and except as required to be incorporated in the work or left in place, all such materials and equipment, shall remain the property of the Contractor. Surveying Instruments shall be in perfectly good working condition and shall be subject to rigid inspection for proper operation at least after every two weeks of use. Defective instruments shall be promptly replaced or repaired and adjusted to the satisfaction of the Engineer.

14.14 Survey data shall be recorded in accordance with recognized professional surveying standards. Original field notes, computations, and other surveying data shall be recorded in the Contractor's furnished field books. Notes or data not in accordance with standard formats will be rejected. Illegible notes or data or use of erasures on any page of a field book will be considered sufficient cause for rejection of part or the entire field book. Copied notes or data will not be permitted; therefore, rejection or part or all of a field book may necessitate re-surveying. Corrections by ruling or lining out errors will be satisfactory.

14.15 The cost of all material, equipment, and labor required for surveys for the layout of Works and quantity surveys required by this Clause shall be deemed to be included in the rates and prices of the applicable items in the Bill of Quantities. All the requirement of General Specification of Item 701 shall require to meet by the Contractor except no payment shall be made against item 701 and deemed to be included in rates and prices of other BOQ items.

## 15 Data for Levels, Lines, Grades and Measurements

### 15.1 General

All levels, lines, grades and measurements shown on the drawings shall be reckoned / carried from benchmark to be established by the Engineer near the Site of the works. The Contractor shall be responsible for ensuring that the levels of all parts of the work area are accurately related to the benchmark that shall be notified to the Contractor by the Engineer before commencement of the work. The Contractor shall thereafter take all necessary precaution to



ensure that temporary benchmarks suffer no damage or displacement during the period of Contract. All benchmarks, burjis for demarcation and other survey marks shall be firmly preserved by the Contractor by protecting them with covers drums throughout the construction period. Any such marks displaced or covered by earth shall be made good and re-located by the Contractor at his own cost. In case of failure to abide by this requirement, the Contractor shall be liable to pay penalty of Rs. 500/- per burji or mark in addition to actual cost of restoration of the datum mark. Such penalty will be deducted from the Contractor's bill.

## 15.2 Surveys

The Contractor shall furnish and maintain at his own expense, stakes and other such devices and give such assistance including qualified staff as may be required by the owner for setting and checking lines and levels. The Owner will established bench marks, base lines and other principal controlling points and grades/levels by such means as may be deemed necessary. The Contractor shall however, call the owner's attention to any inaccuracies and discrepancies of such controlling points, etc. before proceeding with the work. The Contractor shall at his own expense establish work or construct lines, grades and levels, as required in accordance with the base measurements of the owner, and shall be solely responsible for the accuracy thereof. Contractor's work at all stages shall, however, be subject to eh check and review of the Engineer.

## 15.3 Safeguarding Marks

The Contractor shall safeguard all points, stakes, grade/level marks and bench marks or establish on the work, bear the cost of re-establishing them if disturbed, and bear the entire expense of rectifying any work improperly done due to not maintaining or protecting, or removing without authorization such established points, stakes and level marks.

## 15.4 Work to be measured

The work, for the purpose of preparation of payment certificate of the Contractor, shall be measured at Site jointly be the representative of the Employer, Engineer and the Contractor.

## 16 Inspections and Tests

### 16.1 Submission of Samples and Data

Prior to procurement, the Contractor shall furnish to the Engineer, for his approval, drawings, catalogues, descriptive data and the names of the manufacturers of all equipment and materials which he contemplates incorporating in the Works. With this information the Contractor shall also furnish such pertinent information as to capacities, efficiencies and sizes, and such other information as may be required by the Engineer. Samples of materials shall be submitted to the Engineer for approval when so directed. Equipment, materials, supplies and articles installed or used without the Engineer's approval shall be at the risk of subsequent rejection. All samples shall be submitted within sufficient time but not later than 30 days prior to purchase, to permit proper consideration and actions thereon without delaying the approved construction schedule.



## 16.2 Testing

Testing of materials shall be carried out from the designated laboratory as approved by the Engineer and the cost shall be borne by the Contractor. The Engineer will make such tests on concrete, concrete aggregates, sand, and other materials as he may from time to time select, and the Contractor shall provide such samples or assistance in sampling materials at the site as the Engineer may reasonably require. Testing by the Engineer shall in no way relieve the Contractor of his responsibility to test material to ensure that they meet all the specified requirements and to control their quality.

## 16.3 Cost of Additional Tests

Further to the provisions of Sub-Clause 36.3 - Cost of Tests, of the Condition of Contract, the cost of any additional laboratory, field and shop tests required through the resubmission of samples because of failure of compliance with Specifications shall be borne by the Contractor.

## 17 Mobilization Advance

An interest free mobilization advance is to be paid under Clause 14.2 of the Conditions of Contract Part-II, to compensate the Contractor for operation including, but not limited to, any necessary mobilization expenses for all equipment, related components and supplies and delivery to the Site; those necessary for the interim salaries and the movement or personnel, household effects, supplies and incidentals to the project Site, for Site preparation, the establishment of workshops, storage, offices, accommodation, services and other facilities deemed to be required under the Contract; and for any other work and operation which must be performed or costs which must be incurred prior to the initiation of works under the Contract. The advance payment shall be repaid by the Contractor in accordance with Clause 14.2 of Condition of Contract Part-II.

## 18 Care and Handling of Water including Dewatering

### 18.1 General

The Employer does not guarantee or describe completely the conditions which may be encountered in performing the specified works. Sub-surface water and surface run off may be encountered during construction of the Works. The Contractor must assume all responsibility for any deductions or conclusions which he may derive from such information provided by the Employer. The Contractor should also inspect and examine the Site and its surroundings to collect all the pertinent information in this regard before submitting his Tender.



## 18.2 Scope of Work

The work to be done under care and handling of water including dewatering for construction of works, consists of, but will not be limited to the following:

- The Contractor will be required to furnish water for all construction activities or operations.
- Protecting all works, and appurtenant structures to be constructed under this Contract from damage by rains, surface runoff, sub-surface water, if any, and dewatering during the entire construction period.
- Maintaining regular irrigation supplies of minors/ watercourses and other channels carrying irrigation water during the period of construction of works under the Contract.
- Removal and care of surface water and dewatering the sub-surface water for foundations such as to maintain all foundations, excavations and surfaces dry and free of water as required for proper construction of the works.

## 18.3 Protection of Work

The Contractor shall construct and maintain all required temporary diversion and protective works as may be required to protect all Works included in this Contract from rains, surface runoff, sub-surface water, if any, as is necessary for their proper construction in accordance with the Specifications. After having served their purpose, all cofferdams or other temporary protection works shall be removed or levelled and graded as directed by the Engineer so as not to interfere in any way with the operation and usefulness of the completed works.

## 18.4 Plans to be Approved by the Engineer

Prior to start the construction of any protection or diversion work, the Contractor shall submit to the Engineer for approval, his proposed plan of protection and diversion works. The plan may be placed in operation upon its approval. Nothing in the Contract Documents shall relieve the Contractor from full responsibility for the adequacy of the protection and diversion works. The Contractor shall be responsible for and shall repair at his own expense any damage to the foundations, or any other part of the works caused by surface water/sub-surface water, rain or failure of any part of the protection works undertaken by him.

The Contractor shall furnish all labour, equipment and materials required for constructing and maintaining all temporary protection and diversion works necessary for the completion of the works under this contract.

## 18.5 Handling Water and Dewatering Foundations during Construction of Works

The Contractor shall furnish, install, maintain and operate all necessary pumping and other equipment for dewatering to keep the areas and the foundations free from surface-water, sub-surface water required for construction of Works wherever applicable or as shown on the



drawings, or as directed by the Engineer. The Contractor's methods of dewatering the foundations shall consist of well point system duly approved by the Engineer. The dewatering shall be accomplished in a manner that will:

- maintain stability of excavated slopes;
- keep foundations dry for proper construction by lowering and maintaining sub-surface water level 3 feet below the lowest point of the excavation;
- ensure proper compaction and bonding of earth fill material when placed; and
- Facilitate placing of concrete under dry conditions.

#### 18.6 Measurement and Payment

No Measurement and Payment will be made for this item. The cost incurred by the Contractor for performance of his responsibilities referred to in the Sub-Clauses 18.1 to 18.5 hereinabove, shall be included in the price tendered in the Bill of Quantities for other items of work.

### 19 Contractor's Quality Assurance Plan

19.1 The contractor will prepare a Quality Assurance Plan (QAP) including, but not limited to, detailed procedures, instructions or statements covering the items defined hereunder:

- i) Quality assurance procedures of the contractor and delineate the responsibility and authority of various personnel / sections involved.
- ii) Conformance to job specifications in accordance with procedures, documents and drawings of the contract.
- iii) Spelling out the system to be adopted for Engineer's prior approval and acceptance / rejection of the materials and Works.
- iv) Compliance of the procurement process with specifications contractor's documents and methodology of inspection before and after receipt.
- v) Conformance of the processed materials to the specifications along with identification throughout the job in hand.
- vi) Carrying out execution of Special Processes like welding, cleaning, non-destructive testing, etc. by the qualified personnel in accordance with procedures for documentation and archiving of results.
- vii) Proper definition of procedures for testing and measurement through use of devices / instruments including approval by the Engineer regarding their calibration, inspection, acceptance and replacement.
- viii) Carrying out of material testing by qualified personnel in accordance with the



specified job requirements.

- ix) Proposing a system of documentation necessary to attest: completion of any phase of the work; use of correct materials; completion of required inspections and tests; and acceptability of results. By way of illustration and not limitation the following documentation shall be prepared and maintained for submission to the Engineer at the required time:
- a) Survey and layout procedures.
  - b) Inspection / test reports for raw material (cement, steel, aggregates and other construction materials).
  - c) Site test reports on the main items of the works such as excavation, concrete, embankments, etc.
  - d) Welding including rectification procedures.
  - e) Vendor surveillance reports of the contractor.
  - f) Final Inspection reports.

19.2 The Contractor shall submit a draft of his Quality Assurance Plan (QAP) for approval by the Engineer, within 56 days of the Commencement Date. Its final version shall be submitted within 28 days of the receipt of the Engineer's comments / concurrence. If necessary, this Plan will be periodically reviewed and revised as the work proceeds.

19.3 QAP of the contractor will also be applicable to work performed by any of his sub-contractor(s).

19.4 'On-site' and 'off-site' quality assurance audits of the contractor's, sub- contractors and supplier's operations shall be carried out by the Engineer through his quality management personnel.

## 20 ENGINEER'S BASE LABORATORY

### 20.1. General

20.1.1 The Contractor shall provide, furnish, equip and maintain, for the entire Contract duration (24 months) for the exclusive use of the Engineer and his staff, for testing soils, aggregates, concrete and bituminous materials. The laboratory shall be housed in a rental building, fully equipped with all utilities, furniture, apparatus and fittings appropriate to such use.

20.1.2 The Base Laboratory shall be located adjacent to the Resident Engineer Office or elsewhere as required by the Engineer. It shall consist of a hall and two offices with storage, lavatory and washing facilities. The total area of the laboratory building shall be 250 sq m. The hall shall be divided into bitumen section, soil and aggregates sections and a concrete section.

20.1.3 Outside the laboratory water tanks shall be constructed for curing concrete samples, of a size and location approved by the Engineer.



- 20.1.4 The laboratory shall be provided with electricity and shall be fully air-conditioned. It shall have a regular and dependable supply of water, gas and electricity available throughout 24 hours of each day. Payment of utility bills such as for electricity, gas, water supply and drainage will be the responsibility of the Contractor.
- 20.1.5 All rooms shall be provided with exhaust fans, located particularly over fume cupboards and the like.
- 20.1.6 The water supply shall be maintained by an elevated or pressure tank of adequate capacity.
- 20.1.7 The Contractor shall provide qualified materials technicians and qualified laboratory technicians and helpers as deemed necessary by the Engineer to assist in operating the laboratory.
- 20.1.8 The Contractor shall maintain the Engineer's laboratory including the repair and / or replacement of any item. The Contractor shall maintain the laboratory and testing equipment in a satisfactory working condition at all times to enable the Engineer to test the materials and workmanship of the works during construction whenever required, damaged testing equipment shall be replaced by the Contractor and consumable goods shall be supplied in sufficient quantities when ordered by the Engineer for the sole use of testing the construction works. The Contractor shall meet all operating expenses.
- 20.1.9 The Engineer's Laboratory fittings, equipments including testing equipment and furnishings shall remain the property of the Contractor and shall be handed over back to him upon completion of the contract (24 months). The rental building shall be handed over back to its owner on Taking Over of the Works.

## 20.2. Sampling

- 20.2.1 It shall be the responsibility of the Contractor to take samples as required by the Engineer and to provide all necessary transport, labour, tools, containers, wrappings and so forth for uplifting and dispatching samples to the Engineer's Base Laboratory.

## 20.3. Tests

- 20.3.1 The Engineer's Base Laboratory shall be equipped to perform the following in-house tests:



TEST	AASHTO DESIGNATION
Moisture content test by oven drying	
Atterberg limits	T-89 & T-90
Moisture density relationship of soils (standard method)	T-99
Moisture density relationship of soils (modified method)	T-180, Method B and D
Specific gravity of soils	T-100
CBR test	T-193
Sieve analysis of soils and aggregate and mineral filler	T-88, T-27 and T-37
Specific gravity and water absorption of fine aggregates	T-84
Specific gravity and water absorption of coarse aggregates	T-85
Unit weight of aggregates	T-19
Los Angeles abrasion test for aggregates	T-96
Chemical tests:	
- Organic impurities for sand in concrete	T-21
- Chlorides and Sulphates in fine aggregates	ASTM-1411
- Potential alkali reactivity test	ASTM-C 289
Amount of material passing No. 200 sieve	T-11
Soundness of aggregates	T-104
Clay lumps and friable particles in aggregates	T-112
Curing concrete compressive test specimens	T-23
Compressive strength of concrete cylinder specimens	T-22
Quality of water to be used in concrete	T-26
Making and curing concrete test specimens in the laboratory	T-126
Plastic fines in graded aggregates and soils by use of sand equivalent test	T-176
Sampling bituminous materials	T-40
Marshall test and loss in stability	T-245
Specific gravity of compacted bituminous mixtures	T-166
Quantitative extraction of bitumen from bituminous paving mixtures	T-164
Viscosity of bitumen	T-20, T-202
Penetration of bitumen	T-49
Flash and fire points	T-48
Solubility of bituminous materials in organic solvents	T-44
Coating and stripping of bitumen-aggregate mixture	T-182
Petrographic analysis	



20.3.2 The Engineer's Base Laboratory shall be equipped to perform the following field tests:

TEST	AASHTO DESIGNATION
In-place density by sand cone method (with 15.25 cms and 30.5 cms cone)	T-191
In-place density of compacted base course containing large sizes of coarse Coarse aggregates	T-181
Sampling fresh concrete	T-141
Concrete slump	T-119
Sampling bituminous materials	T-40
Determining the temperature of bituminous paving mixtures	-
Coring and determination of bulk specific gravity of compacted bituminous Mixtures	T-230, T-166

20.3.3 If any additional testing is required other than mentioned above, the Contractor shall provide all assistance to conduct the test. The cost of all such tests shall be born by the Contractor.

#### 20.4. Furnishing

20.4.1 The Contractor shall provide, for the whole contract duration, furnishings for the Engineer's Base Laboratory described in the following list to a quality approved by the Engineer. Substitution of type may be made only upon approval of the Engineer.

No.	DESCRIPTION
3	Standard office desks
3	Swivel type padded desk chairs
7	Work tables
15	Standard office chairs
6	Small tables
3	Side racks
3	Metal filing cabinets, 4-drawer
6	Electronic calculators
4	Air conditioners (cooling and heating)
2	Electric water coolers
1	Display board
3	Desk lamps, fluorescent, 20 watts
3	Standard size staplers
1	Heavy duty staplers
2	Paper cutters
2	Paper hole punches
2	Pencil sharpeners
4	Fire extinguishers



## 20.5. Equipment

- 20.5.1 The Contractor shall provide new laboratory equipment as noted in the list Equipment for the Engineer’s Base Laboratory included herein. The equipment shall be purchased from Messrs Controls, or from equivalent international suppliers, all to the approval of the Engineer.
- 20.5.2 The Contractor shall submit a complete list of the equipment, apparatus and supplies he proposes to furnish for the Engineer’s Laboratory. The list shall include the manufacturer’s name and descriptive literature.
- 20.5.3 Additional equipment and materials shall be supplied by the Contractor at no additional cost as and when required by the Engineer to perform any test relevant to the Works.

## 20.6. Measurement and Payment

- 20.5.4 Providing, furnishing, equipped and maintaining the base laboratory shall not be paid separately and shall deemed to be included in other pay items.

Item No	Description	Unit of Measurement
20	Provide Furnish and Equipped Base Laboratory for The Engineer	Not Payable Separately, Inclusive in other BoQ items
	Maintain Engineer’s Base Laboratory	Not Payable Separately, Inclusive in other BoQ items



### EQUIPMENT FOR THE ENGINEER'S BASE LABORATORY

SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
<b>A.</b>	<b>GENERAL EQUIPMENT</b>			
1	Laboratory oven, capacity 220 litre	UNE-600	Each	1
2	Laboratory oven, capacity 100 litre	10-D1390	Each	1
3	Hot plate, maximum temperature 350°C	10-D1405/A	Each	1
4	Gas burner, two flames	999-G/S	Each	1
5	Bunsen burner with tripod	86D/1/1420	Each	1
6	Heavy duty straight spring scale	11-D695	Each	1
7	Heavy duty balance, 20 kg.	11-D610	Each	1
8	Triple beam balance, 2,610 grams	11-D605	Each	1
9	Cent-O-Gram balance, 311 grams	11-D600	Each	2
10	Platform balance 150 kg	11-D690/A	Each	1
11	Electronic precision balance	11-D629/Z	Each	1
12	Digital top pan balance 30 kg x 1 gram capacity with cradle	11-D612/A, D627/C	Each	1
13	Wall clock	-	Each	1
14	Stop watch	86-D1231	Each	1
15	Vernier caliper	86-D1652	Each	1
16	Thermometer, general, 0°C - 200°C	86-D1202		2
17	Maximum - minimum thermometer	86-D1215	Each	1
18	Sampling tools, complete set	40-T10/A	Each	1
19	Tongs	86-D1455	Each	2
20	Desicator	86-D1110	Each	1
21	Beaker, pyrex, 250 ml	86-D1073	Each	2
22	Beaker, pyrex, 600 ml	86-D1074	Each	2
23	Beaker, pyrex, 1,000 ml	86-D1075	Each	2
24	Funnel, 250 ml	86-G001	Each	2
25	Funnel, 500 ml	86-G002	Each	2
26	Volumetric flask, 100 ml	86-D1059	Each	2
27	Volumetric flask with stopper, 250 ml	86-D1060	Each	2
28	Volumetric flask with stopper, 500 ml	86-D1061	Each	2
29	Volumetric bottle flask, 250 ml	86-D1050	Each	2
30	Volumetric bottle flask, 500 ml	86-D1051	Each	2
31	Wash bottle, 100 ml	86-D1535	Each	2
32	Wash bottle, 250 ml	86-D1536	Each	2
33	Wash bottle, 500 ml	86-D1537	Each	2
34	Specific gravity bottles 100 ml (86D-1127)	86-D1003	Each	1
35	Graduated cylinder, 100 ml	86-D1004	Each	2



SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
36	Graduated cylinder, 250 ml	86-D1006	Each	2
37	Graduated cylinder, 1,000 ml	86-D1092	Each	2
38	Reagent bottle stoppered, 2 litre	86-D1332	Each	2
39	Aluminium cans with cover, 2" diameter	86-D1333	L.S	*
40	Aluminium cans with cover, 3" diameter	86-D1334	L.S	*
41	Scoop	86-D1602	Each	2
42	Brush, fine	86-D1671	Each	1
43	Wire brush, coarse	86-D1670	Each	1
44	Wire brush, fine	86-D1673	Each	1
45	Bucket, 12 litre		Each	2
46	Trolley	86-D1703	Each	1
47	Shovel, large		Each	1
48	Pickaxe		Each	1
49	Sample splitter, coarse	15-D437	Each	1
50	Sample splitter, fine	15-D433	Each	1
51	Sieve shaker for 8" diameter sieve, motorised	15-D407	Each	1
52	Tin pan/tray, 12" x 12" x 2"		Each	4
53	Tin pan/tray, 16" x 16" x 3"		Each	4
54	Tin pan/tray, 24" x 16" x 3"		Each	4
55	Tin pan/tray, 20" x 16" x 4"		Each	4
56	Mortar porcelain, 200 mm diameter with rubber covered pestle	15-D1180	Each	1
<b>B.</b>	<b>COARSE AND FINE AGGREGATES SIEVE ANALYSIS</b>			
	<b>Sieve set 8" diameter:</b>			
1	1 inch	15-D110/2	Each	3
2	3/4 inch	15-D112/2	Each	2
3	1/2 inch	15-D115/2	Each	2
4	3/8 inch	15-D117/2	Each	2
5	No. 4 (4.74 mm)	15-D122/2	Each	2
6	No. 8 (2.36 mm)	15-D126/2	Each	2
7	No. 10 (2.00 mm)	15-D127/2	Each	3
8	No. 16 (1.18 mm)	15-D130/2	Each	2
9	No. 30 (0.60 mm)	15-D134/2	Each	2
10	No. 40 (0.425 mm)	15-D136/2	Each	3
11	No. 50 (0.300 mm)	15-D138/2	Each	2
12	No. 80 (0.180 mm)	15-D141/2	Each	1
13	No. 100 (0.150 mm)	15-D142/2	Each	2
14	No. 200 (0.075 mm)	15-D146/2	Each	3
15	Wet washing No. 200	15-D160/2	Each	3
	<b>Sieve set 12" diameter:</b>			



SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
16	3 inch (75 mm)	15-D102/3	Each	2
17	2 1/2 inch (63 mm)	15-D103/3	Each	2
18	2 inch (50 mm)	15-D105/3	Each	2
19	1 1/2 inch (38 mm)	15-D107/3	Each	2
20	1 inch (25 mm)	15-D110/3	Each	2
21	3/4 inch (19 mm)	15-D112/3	Each	2
22	1/2 inch (12.5 mm)	15-D115/3	Each	2
23	3/8 inch (9.5 mm)	15-D117/3	Each	2
24	No. 4 (4.74 mm)	15-D122/3	Each	2
	<b>Sieve set 18" diameter:</b>			
25	3 inch (75 mm)	15-D102/45	Each	2
26	2 1/2 inch (63 mm)	15-D103/45	Each	2
27	2 inch (50 mm)	15-D105/45	Each	2
28	1 1/2 inch (38 mm)	15-D107/45	Each	2
29	1 inch (25 mm)	15-D110/45	Each	2
30	3/4 inch (19 mm)	15-D112/45	Each	2
31	1/2 inch (12.5 mm)	15-D115/45	Each	2
32	3/8 inch (9.5 mm)	15-D117/45	Each	2
33	No. 4 (4.74 mm)	15-D122/45	Each	2
34	Pan	15-D152/2 /3/45	Each	2
35	Cover	15-D152/2 /3/45	Each	2
36	Large Capacity Sample Splitter	15-D430	Each	1
37	Sample Splitter	15-D437	Each	1
<b>C.</b>	<b>ATTERBERG LIMITS</b>			
1	Liquid limit test set with all accessories	22-T32/AP	Each	1
2	Mixing Dish	86-D1172	Each	2
3	Moisture Tin	86-D1330	Each	10
4	Spatula	86-D1630	Each	2
5	Plastic limit test set with all accessories	22-T41	Each	1
<b>D.</b>	<b>SAND EQUIVALENT</b>			
1	Apparatus complete	22-T50/A	Set	1
<b>E.</b>	<b>COARSE AND FINE AGGREGATE UNIT WEIGHT</b>			
1	Density basket, brass	11-D612	Each	1
2	Sand absorption cone and tamper	47-D440	Each	1
3	Pycnometers	47-D441	Each	2
4	Specific gravity bottle	86-D1125	Each	1



SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
5	Specific gravity bottle	86-D1126	Each	1
6	Specific gravity bottle	86-D1127	Each	1
<b>F.</b>	<b>ABRASION</b>			
1	Los Angeles abrasion machine with abrasion charges set	48-D500	Each	1
<b>G.</b>	<b>COARSE AND FINE AGGREGATE SOUNDNESS</b>			
1	Distilled water	-	L.S.	*
2	Sodium sulphate solution	-	L.S.	*
<b>H</b>	<b>AGGREGATE FLAKINESS AND ELONGATION</b>			
1	Flakiness sieve test set	47-D415		1
2	Thickness Gauge	47-D540		1
3	Length Gauge	46-D541		1
<b>I.</b>	<b>MODIFIED COMPACTION</b>			
1	Straight edge	34-T99	Each	1
2	Scoop	86-D1601	Each	1
3	Scoop	86-D1602	Each	1
4	Mixing spoons	35-T143	Each	1
5	Sample ejector	16-T80	Each	1
6	Modified compaction hammer, 10 lbs	33-T76	Each	2
7	Modified compaction mould, 6" diameter	33-T71	Each	2
8	Modified compaction mould, 4" diameter	33-T70	Each	2
9	Preparation knife	Local	Each	1
10	Wooden hammer	Local	Each	1
11	Spatula	Local	Each	1
12	Mixing tray, 24" x 24" x 3"	Local	Each	*
<b>J.</b>	<b>LABORATORY CBR</b>			
1	Soaking, tank 60" x 120" x 24"	Local	Each	1
2	CBR mould, 6" diameter with collars, plate, screws	34-T90	Each	9
3	Filter Paper	86-D1800	L.S.	*
4	Swell Plates	34-T92	Each	9
5	Surcharge weights	34-T94	Each	18
6	Surcharge weights, slotted	34-T95	Each	2
7	Tripod attachment	34-T93	Each	9
8	Dial indicator	86-D1256	Each	9
9	Spacer, disc	34-T91	Each	2
10	CBR loading press, hydraulic, motorized	34-T105	Each	1
11	Proving ring, 2,000 lbs	82-T1002	Each	1



SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
12	Proving ring, 6,000 lbs	82-T1007	Each	1
13	Proving ring, 13,000 lbs	82-T1009	Each	1
<b>K.</b>	<b>FIELD DENSITY</b>			
1	6 inches sand density cone apparatus (Complete Set)	35-T130	Each	3
2	Spoon	Local	Each	2
3	Plastic bags	Local	L.S	*
4	Chisel, 12"	Local	Each	2
5	Hammaer, 2.5 lbs	Local	Each	2
6	Field balance	11-D608	Each	2
7	Speedy moisture tester	19-T24	Each	2
8	Nuclear density guage, Troxler XFL		Each	1
9	Sieve No. 30 (0.60 mm)	15-D136/6	Each	2
<b>L.</b>	<b>BITUMEN</b>			
1	Bitumen penetration test, penetrometer (Complete Set)	81-B100/A	Set	1
<b>M.</b>	<b>ASPHALT</b>			
1	Marshall stability compressive machine (with all Accessory)	76-B29A	Each	1
2	Marshall compaction hammer	76-B58	Each	1
3	Marshall specimen mould holder	76-B56/B	Each	1
4	Marshall breaking head	76-B33	Each	1
5	Marshall flow mete	76-B34	Each	1
6	Marshall mixing apparatus	16-B72	Each	1
7	Water bath (thermostatic) controlled to 60°C	76-B66/S	Each	1
	<b>Bituminous extractor apparatus</b>	75-B23/A		
1	Filter disc	75-B22/1	L.S.	*
2	Mixing bowl (steel)	75-B22/2	Each	1
3	Asphalt oven	81-B160	Each	1
4	Vacuum pycnometer	75-D1122	Each	1
5	Extractor for slability mould	76-B57/B5	Each	1
6	Stability mould with collar	76-B57	Each	6
7	Compaction pedestal	76-B59	Each	1
8	Hammer Guide	76-B59/1	Each	1
9	Pavement core drill with 4" diameter core	83-D202	Each	1
10	Core bit, 4" diameter	83-D322/1	Each	4
11	Expender Set	83-D312/1	Drum	*
12	Thermometer, metallic 350°C		Each	4
13	Hubbard-Carmick specific gravity bottle	86-D1115	Each	1
<b>N.</b>	<b>CONCRETE AND CEMENT</b>			
1	Compressive strength machine, heavy duty, 2000 KN	50-C52/B	Each	1



SR. No.	EQUIPMENT DESCRIPTION	MODEL No. / Make	UNIT	QTY
2	Steel scale	-	Each	2
3	Curing tank with temperature control	-	Each	1
4	Cement mould brush	-	Each	2
5	Laboratory concrete mixer	55-C196/1	Each	1
6	Concrete vibrator	55-C162/A	Each	1
7	Concrete tray	86-D1305/1	Each	*
8	Air meter complete	54-C170/D	Set	1
9	Cylinder mould, heavy duty, 6" diameter	54-C118/D	Each	9
10	Cylinder capping apparatus	54-C121/21	Each	1
11	Concrete capping compound	54-C121/1	Kg	*
12	Laboratory warming pot	54-C121/4	Each	1
13	Slump test cone	54-C149/A	Set	2
14	Tamper	55-C140	Each	1
15	Vibrating table	55-C161	Each	1
16	Concrete micrometer		Each	1
17	Vicat apparatus Complete set	63-L28/1	Set	1
18	Steel straight edge		Each	2
19	Hand gloves, rubber		Pair	*
20	Trowel triangular blade		Each	2
21	Cement cube mould	65-L80/A	Each	2

\* As per requirement

## 21 Engineer's Survey Equipment

### 21.1. General

21.1.1 The Contractor shall provide and maintain, for the whole contract duration, survey equipment for the use of the Engineer and his Staff. All the survey equipment shall be new and shall be maintained throughout the Contract duration and replaced by the Contractor free of charge in case of damage or loss howsoever caused. The Contractor shall also arrange calibration of all surveying instruments after every three months.

21.1.2 After the completion of the Works the survey equipment shall remain the property of the Contractor and shall be handed over back to him.

### 21.2. Equipment

21.2.1 The Contractor shall provide and maintain the following survey equipment (minimum but not limited to):



No.	DESCRIPTION
-----	-------------

1 Total Station survey units complete Sokkia Latest Model or Equivalent

0.5" Reading 2" Accuracy, Range with Prism 3.5 km complete with:

- Built in Data lodger
- Main Unit with WA-type Tribrach
- BDC 35 Rechargeable Battery X2
- CDC 40 Quick charger
- 5000 points Built in memory +
- SDC Memory card (128k byte)
- CPT Tubular Compass
- Sunshade, Lens Cap, Plumbbob,
- Vinyl Cover, Tool Kit, Cable, Belt,
- Basic Operation Manual, Carrying Case
- Precision Wooden Tripod

2 Automatic Level complete with tripod AL 32 A or equivalent

2 Aluminum Telescopic Tripod Sokkia PFA1 or equivalent

4 Levelling Staff (local manufacture)

2 Range Pole Level Sokkia AP61L or equivalent

3 Steel measuring tape, 50 m long

4 Steel measuring tape, 20 m long

10 Steel measuring tape, 3 m long

### 21.3. Measurement and Payment

21.3.1 Providing and maintaining the Survey equipment shall not be measured and paid separately and shall be deemed to be included in other items.

Item No	Description	Unit of Measurement
21	Provide Survey Equipment	Not Payable Separately, Inclusive in other BoQ items
	Maintain Survey Equipment	Not Payable Separately, Inclusive in other BoQ items



## SPECIFICATIONS SPECIAL PROVISION

### SP-1 FORMATION OF EMBANKMENT WITH ROCK FILLING

- 1.1 For the formation of embankments, the Contractor must adhere to the National Highway Authority (NHA) General Specifications (December 1998), Item 108 (108.3.2), and ensure compliance. Similarly, for rock materials, the Contractor must follow NHA General Specifications Item 509 (509c) for Class C rock, and shall ensure the compliance. The formation of embankment is incidental to item 509c. No separate payment shall be made for 108.3.2.



## **SP-2 CROSS HOLE SONIC LOGGING AND VELOCITY TOMOGRAPHIC IMAGING OF PILES AS DIRECTED BY THE ENGINEER COMPLETE IN ALL RESPECTS.**

### **2.1 General**

The concrete integrity of all working (contracted) piles shall be investigated by a non-destructive method generally by Sonic Coring or Sonic Digraph between holes. The test is undertaken by lowering two piezo-electric probes, one a sonic emitter and the other a receiver down parallel ducts placed a known distance apart in a pile. The emitter transmits signals at predetermined time travels. Part of the expanding wave front is recorded by the receiver probe.

The method tests the continuity of the concrete between the ducts by measuring its effects upon the propagation of the sonic wave between the emitter and the receiver. The presence of soil or other foreign or washout of cement paste affects the propagation velocity, amplitude and shape of the received signals.

In the event testing discloses voids or discontinuities in the concrete which indicate that the drilled shaft is not structurally adequate as determined by the Engineer, the shaft shall be rejected and construction of additional drilled shafts shall be suspended until the Contractor repairs, replaces, or supplements the defective work and the Engineer approves the remedial work.

Suspension of drilled shaft construction shall remain in effect until written changes to the methods of drilled shaft construction are approved by the Engineer.

### **2.2 Submission of Method Statement / Methodology**

The Contractor shall provide complete work methodology of pile integrity testing by Sonic Coring or Sonic Digraph between test holes, including work and material required for testing which are to be furnished by the Contractor to Engineer for approval by the Engineer before starting any work.

The method state should include, test preparation, drawing / sketches applicable to test, test equipment / tools, test sequence, positioning of test probes, data collection / capturing, processing and analysis grouting of haies after completion of list, etc. along with technical specifications of equipment / tools used in test.

The Contractor shall provide all technicians, materials, tools, equipment (including complete software) incidentals and shall furnish all data and reports complete to the satisfaction of The Engineer. Test shall be commenced only after test methodology / method statement for performing test including all relevant details submitted to the Engineer for review and approved by the Engineer.



## 2.3 Measurement and Payment

### 2.3.1 Measurement

The quantity to paid for shall be: The number of piles test and accepted.

### 2.3.2 Payment

The quantities measured as provide above shall be paid at the contract price such price and payment shall be full compensation for furnishing all labour, materials, tools, equipment, incidentals and furnishing technical report. And for doing all the work involved complete as per technical specifications and approved methodology by the Engineer and as desired by the Engineer.

Pay item No.	Description	Unit of Measurement
SP-2	Cross hole sonic logging and velocity Tomographic imaging of piles as directed by the engineer complete in all respects.	Each Pile



### SP-3 GANTRY SIGNS

#### 3.1 General

The work shall consist of supply, fabrication and installation of gantry signs at locations as shown on drawings or as directed by the Engineer as per the site requirement, complete in all respect. Gantry signs shall be required to be installed to provide the information about the important places and restriction enforced for type of passing vehicles.

The gantry signs shall be manufactured and installed in accordance with the details shown in the gantry sign's drawings and as directed and approved by the Engineer's representative. The sign panel shall be designed suiting the situation and approved by the Engineer's representative before its manufacture.

#### 3.2 Gantry Sign Structure

The contractor shall be responsible to submit the complete methodology and shop drawings prior to the start of any activity and get approved from the Engineer representative. All work in respect of the furnishing, construction of foundation and erection and finishing of gantry sign structure shall conform to the drawings and to the relevant requirements of General Specifications section 401 "Concrete", section 404 "Steel Reinforcement". section 413 "Steel Structures and section 607 "traffic signs and safety devices" and covering the requirements of Delineators/Angle Reflector.

#### 3.3 Measurement and Payment

The item shall be paid for as under, which price and payment shall be full compensation for all the costs necessary for the proper manufacture, installation and completion of work prescribed in the item/drawing:

Payment Item No.	Description	Unit of Measurement
SP-3 a	Gantry Sign Type-I as shown on drawing	Each
SP-3 b	Gantry Sign Type-II as shown on drawing	Each



## SP-4 PVC SERVICE PIPES 150 mm DIAMETER

### 4.1 Description

The work shall consist of providing and fixing in position PVC for the services in deck slab of sizes of spacing shown on the drawing including all joining bends and fixing in concrete properly as indicated on the drawing.

### 4.2 Material Requirements

PVC pipes and its fixture shall conform to BSS and ASTM standards.

### 4.3 Construction Requirements

The pipes should be free from all blemishes. Proper length of pipes as required should be fixed in the concrete. All work is to be completed as per drawing specifications and as directed by the Engineer.

### 4.4 Measurement and Payment

The measurement and payment for the pipe shall be the running meters of pipes provided, fitted and fixed in position. The accepted quantity measured as provided above shall be paid at the contract unit price as listed below and the BOQ, which price and payment shall constitute full compensation for labour, equipment and incidental necessary to complete the item in all respects.

Pay Item No.	Description	Unit of Measurement
SP-4	Providing and fixing including testing and commissioning of PVC 150 mm diameter service pipe in bridge deck	M



## SP-5 GALVANIZED IRON (G.I) DRAINAGE PIPE

### 5.1 Description

This work shall consist of providing, making and fixing in position G.I pipes for the drainage of deck slab of sizes and spacing shown on the drawings including all threading, joining, tees, bends and fixing in concrete properly as indicated in the drawings. The pipes shall be painted with three coats of approved enamel paint.

### 5.2 Material Requirement

G.I. pipes having wall thickness of minimum 2 mm and its fixtures shall conform to BSS & ASTM standards.

### 5.3 Construction Requirement

The pipes should be free from all blemishes. Proper length of the pipes as referred should be cut and fixed with all fittings including fixing in the concrete. All works are to be completed as per drawings, specifications and as directed by the Engineer.

### 5.4 MEASUREMENT AND PAYMENTS

The measurement and payment for the pipe shall be the running meters of pipes provided, fitted and fixed in position. The accepted quantity measured as provided above shall be paid at the contract unit price as listed below and the BOQ, which price and payment shall constitute full compensation for labour, equipment and incidental necessary to complete the item in all respects.

Pay Item No.	Description	Unit of Measurement
SP-5	Providing and fixing 100 mm dia G.I drainage Pipe in bridge deck.	M



**GENERAL SPECIFICATIONS TECHNICAL PROVISIONS**  
National Highway Authority General Specification (December 1998)  
Separate Volume - II



**DRAWINGS**  
Separate Volume



**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**

**EXTENSION / CONSTRUCTION OF SINDH COASTAL  
HIGHWAY (PHASE-II) FROM KM 11+000 TO KM  
47+075 (36 KMS)**

A handwritten signature in blue ink, appearing to read 'Mustafa'.

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

**TENDER DRAWINGS  
FEBRUARY, 2026**



**Engineering Consultants  
International (Pvt.) Ltd.**

***Joint Venture (JV)***



**TENDER  
DRAWING**

# GENERAL DRAWINGS



**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

## GENERAL NOTES

1. EXCEPT WHEN OTHERWISE INDICATED, ALL DIMENSIONS AND UNITS ARE IN THE METRIC SYSTEM OF MEASUREMENT.
2. EACH DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER DRAWINGS.
3. THE TOPOGRAPHIC SURVEY WAS PERFORMED BY SURVEY EQUIPMENT AND TOTAL STATION. ALL THE COORDINATES ARE GRID COORDINATES BASED ON UTM (UNIVERSAL TRANSVERSE MERCATOR) SYSTEM OF PROJECTION AND CORRESPOND TO THE INTERNATIONAL GRID REFERENCE.
4. BEARINGS ARE MEASURED FROM MEAN GRID NORTH.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AS SHOWN ON THE PLANS OR AS OTHERWISE ENCOUNTERED DURING CONSTRUCTION.
6. ALL SITE INFORMATION, REPRESENT THE RESULTS AND INTERPRETATION OF SITE INVESTIGATION PROGRAM CARRIED OUT SOLELY FOR THE PURPOSE OF STUDY AND DESIGN. SUCH INFORMATION IS INCLUDED SOLELY TO INDICATE THE INTENT OF THE DESIGN AND FOR THE CONVENIENCE OF THE CONTRACTOR. THERE IS NO WARRANTY OR GUARANTEE THAT UNFORESEEN CONDITIONS MAY NOT OCCUR, OR THAT MATERIAL OTHER THAN OR IN PROPORTIONS DIFFERENT FROM THOSE INDICATED MAY NOT OCCUR. CONTRACTORS BID WILL BE SOLELY ON THE BASIS OF HIS OWN INVESTIGATIONS.
7. CONTRACTOR SHALL CARRY OUT INVESTIGATIONS AT THE LOCATION OF STRUCTURES AS SHOWN ON THE DRAWINGS AND PROVIDED IN THE BOQ. TIP LEVELS AND CAPACITY OF PILES SHALL BE VERIFIED / CHECKED BASED ON THE INVESTIGATIONS RESULTS AND PILE LOAD TEST BEFORE EXECUTIONS OF PILES.
8. THE ENGINEER MAY VARY THE CUT / FILL SLOPES, FOUNDATIONS AND OTHER FEATURES OF DESIGN AS HE DEEMS NECESSARY TO CONFORM TO THE SITE CONDITIONS ACTUALLY ENCOUNTERED DURING THE COURSE OF WORK.
9. ALL SHOULDERS AND SLOPES ARE TO BE TRIMMED AND BLENDED TO MEET THE REQUIRED CONDITIONS OR AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONSTRUCTION SHALL BE GRADED AND FINISHED AS INDICATED ON THE TYPICAL SECTIONS OR AS DIRECTED BY THE ENGINEER.
10. UNLESS OTHERWISE INDICATED SECTIONS ARE DRAWN LOOKING IN THE DIRECTION OF INCREASING STATIONS.
11. ANY CONFLICT BETWEEN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER FOR THE CLARIFICATION BEFORE PROCEEDING WITH THE WORK INVOLVED.

**TENDER  
DRAWING**

*Project Director*  
**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 36-KILOMETER  
 SINDH COASTAL HIGHWAY, THATTO  
 (Works & Services Department)

CLIENT:-   WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km+7+075 (36.00 km)	DESIGN CONSULTANT   Joint Venture (JV)	TITLE:-  GENERAL NOTES	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ED.NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	ED.NO.	DATE	DESCRIPTION															
ED.NO.	DATE	DESCRIPTION																				
			DRAWN:- AFRIZ ALAM	DRAWING NO. HWY-GRN-02																		
			DESIGNED:- NAEM QAMAR	Scale:- N.T.S																		
			CHECKED:- BUY AL ABHO	Edition 0																		
			DATE:- OCTOBER, 2025																			

# LEGENDS

S.NO	DESCRIPTION	SYMBOL
1	GROUND LINE (EARTH)	
2	BORE HOLE (ROADWAY)	
3	BORE HOLE (STRUCTURES)	
4	POTENTIAL BORROW AREA	
5	POTENTIAL QUARRY AREA	
6	STONE WASTE	
7	MOUND	
<b>HYDROLOGICAL FEATURES</b>		
1	CANAL / DRAIN	
2	WATER COURSE	
3	RELOCATED WATER COURSE	
4	RIVER / MALLAH / TORRENT	
5	WELL	
6	TUBE WELL	
7	HAND PUMP	
8	KANIZ	
9	POND / LAKE	
10	MARSH	
<b>ROAD AND RAILWAY</b>		
1	RIGHT OF WAY	
2	EXISTING METALLED ROAD	

S.NO	DESCRIPTION	SYMBOL
3	EXISTING EARTHEN ROAD OR TRACK	
4	PATH	
5	PROPOSED CARRIAGEWAY	
6	RELOCATED EXISTING ROAD	
7	RAILWAY LINE	
8	BRIDGE IN PLAN	
9	EXISTING BRIDGE, CULVERT	
10	PROPOSED BOX CULVERT IN PLAN	
11	PROPOSED PIPE CULVERT IN PLAN	
12	PROPOSED BOX CULVERT IN PROFILE	
13	PROPOSED PIPE CULVERT IN PROFILE	
14	EMBANKMENT / FILL SLOPE	
15	CUT SLOPE	
16	CONCRETE CHUTE (DYKE DRAINAGE)	
17	MEDIAN DROP INLET	
18	ASPHALT WEARINGS COURSE/ST	
19	ASPHALT BASE COURSE	
20	AGGREGATE BASE COURSE/SEM	
21	GRAVEL/SUBBASE	
22	GIAND RAIL	

S.NO	DESCRIPTION	SYMBOL
23	TRAFFIC SIGN	
24	KERB STONE	
<b>BUILDING AND MISC. STRUCTURES</b>		
1	EXISTING HOUSE, MAD HOUSE	
2	MOSQUE	
3	BOUNDARY WALL	
4	CULTIVATION LIMIT	
5	PROPERTY / OWNERSHIP BOUNDARY	
6	FENCE	
7	WIRE FENCING	
<b>SURVEY</b>		
1	CHANGE POINT	
2	TRANSVERSE POINT & TRANSVERSE LINE	
3	POINT OF INTERSECTION	
4	CONTOUR	
5	MILE STONE / Km POST	
6	PERMANENT REFERENCE MARKER	
7	REFERENCE POINT	
8	BENCH MARK	

S.NO	DESCRIPTION	SYMBOL
1	LIGHT POLE / POWER POLE	
2	GAS PIPELINE	
3	WATER PIPELINE	
4	POWER LINE (M&LR)	
5	POWER LINE (SINGLE POLE)	
6	UNDERGROUND CABLE (T&T)	
7	TELEPHONE & TELEGRAPH (T&T)	
<b>MISCELLANEOUS</b>		
1	BUSHES	
2	TREES OR ORCHARD	
3	PINE TREES	
4	GRAVEYARD	
5	CENTRE LINE	
6	PLYON	
7	SOIL PT LOCATION	
8	RIP RAP	
9	START / END POINT OF HORIZONTAL CURVE	
10	KILN	
11	MANHOLE	

# ABBREVIATIONS

S.NO	DESCRIPTION	ABBREVIATIONS
1	STATION	STA.
2	POINT OF INTERSECTION	PI
3	EASTING	E
4	NORTHING	N
5	ANGLE OF DEFLECTION	Δ
6	RADIUS	R
7	LENGTH OF TANGENT	T
8	LENGTH OF CIRCULAR CURVE	Lc
9	EXTERNAL ORDINATE	E
10	DEGREE OF CURVE	D
11	RATE OF SUPERELEVATION	SE
12	WIDENING	W
13	BEGINNING OF CIRCULAR CURVE	PC
14	END OF CIRCULAR CURVE	PT
15	VERTICAL POINT OF INTERSECTION	VPI
16	ELEVATION	EL
17	LENGTH OF HORIZONTAL TANGENTIAL CURVE	L

S.NO	DESCRIPTION	ABBREVIATIONS
18	MIDDLE ORDINATE	M
19	NORMAL CROSSFALL	NC
20	REVERSE GROWN	RG
21	SUPERELEVATION RUNOFF	SR
22	TANGENT ROUNDOFF	TR
23	POINT OF COMPOUND CURVATURE	PCG
24	LENGTH OF TRANSITION CURVE	Ls
25	PARAMETER OF TRANSITION CURVE	A
26	BEGINNING OF TRANSITION CURVE	BTC
27	END OF TRANSITION CURVE	ETC
28	POINT OF VERTICAL CURVATURE	PVC
29	POINT OF VERTICAL TANGENCY	PVT
<b>STRUCTURES</b>		
1	ARCH CULVERT	AC
2	PIPE CULVERT	PC
3	SLAB CULVERT, BOX CULVERT	SC, BC
4	BRIDGE OVER DRAIN	BD

S.NO	DESCRIPTION	ABBREVIATIONS
5	BRIDGE OVER RIVER	BR
6	INTERCHANGE	I
7	INVERT LEVEL	IL
8	BED LEVEL	BL
9	FINISHED ROAD LEVEL	FRL
10	EMBANKMENT	EMBK.
11	ROAD	RD
12	WATER COURSE	W/C
<b>MISCELLANEOUS</b>		
1	LIGHT POLE, POWER POLE	LP, PP
2	TELEPHONE POLE	TP
3	STRAIGHT	ST
4	RIGHT	RI
5	LEFT	LI
6	HEIGHT	HI
7	THICKNESS	TH, t
8	AHEAD	AHD
9	BACK	BK
10	MINIMUM	MIN.
11	MAXIMUM	MAX.

S.NO	DESCRIPTION	ABBREVIATIONS
12	NUMBER	NO. #
13	METRE	M, m
14	VERTICAL	VER
15	DEPRESSION	DEP
16	RELATIVE RISE	f
17	RELATIVE DEPTH	d
18	GREATER THAN AND EQUAL TO	>
19	LESS THAN AND EQUAL TO	<
20	STANDARD	STD.
21	TYPICAL	TP.
22	HIGH TENSION	HT
20	DRAWINGS	DRG.
24	BENCH MARK	BM
25	HIGH FLOOD LEVEL	H.F.L.
26	RIGHT OF WAY	R.O.W
27	REFERENCE	REF.
28	REFERENCE POINT	REF. PT.
29	TRAVERSE POINT	TS, NK
30	PERMANENT REFERENCE MARKER	PRM
31	MANHOLE	MH
32	LIMIT OF CONTRACT	L.O.C

**TENDER  
DRAWING**

CLIENT:-

WORKS AND SERVICES DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-

EXTENSION / CONSTRUCTION OF SINDH  
COASTAL HIGHWAY  
Phase -II: From Km 11+000 To Km 17+075  
(36.00 Km)

DESIGN CONSULTANT



TITLE:-

LEGENDS & ABBREVIATIONS

ED/NO. DATE

DESCRIPTION

DRAWN: AFROZ ALAM

DRAWING NO. HWY-GEN-03

DESIGNED: NAEM QAMAR

Scale: N.T.S

CHECKED: BUY AL ABRO

Edition: 0

DATE: OCTOBER, 2025

# TENDER DRAWING

## PROJECT DIRECTOR EXTENSION / CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO (Works & Services Department)

NOTE  
1. TRAFFIC SIGNS ARE EXTRACTED FROM "MANUAL OF SIGNS, SIGNALS & ROAD MARKING" BY NTRC, JULY 1989 AND MUTCD 2009  
2. FOR COLORS SCHEME OF TRAFFIC SIGNS PANEL, REFERENCE TO BE MADE TO "MANUAL OF SIGNS, SIGNALS & ROAD MARKINGS" BY NTRC, JULY 1989 AND MUTCD 2009

**CHEVRON SPACING**

S.NO.	CURVE RADIUS SIGN SPACING (m)	(m)
1	30	5
2	50	8
3	100	12
4	200	20
5	500	35

**SIGNS SHOWN ON DRAWINGS**

S.NO.	CHEVRON SPACING (m)	CATEGORY	SHAPE OR MODEL	TYPE OF SIGNS
1	30	1	△	WARNING
2	50	2	○	REGULATORY
3	100	3a	□	INFORMATORY
4	200	3b	□	
5	500	3c	□	

CLIENT:-  
WORKS AND SERVICES DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF SINDH  
COASTAL HIGHWAY  
Phase - II: From Km 11+000 To Km+7+075  
(36.00 Km)

DESIGN CONSULTANT  
Joint Venture (JV)  
AVI

TITLE:-  
TRAFFIC SIGNS

ED/NO. DATE DESCRIPTION

DRAWN: AFROZ ALAM  
DESIGNED: NAEM QAMAR  
CHECKED: BUYAL ABRO  
DATE: OCTOBER, 2025

DRAWING NO. HWY-GEN-08  
Scale:- N.T.S  
Edition: 0

**REGULATORY SIGNS (R-1 to R-41):**

- R-1: KEEP RIGHT
- R-2: PROCEED CLOCKWISE
- R-3: LANE CONTROL
- R-4: LANE CONTROL
- R-5: LANE CONTROL
- R-6: DIVIDED HIGHWAY BEGINS
- R-7: DIVIDED HIGHWAY ENDS
- R-8: TEMPORARY TRAFFIC SIGN
- R-9: SIGN 7/42
- R-10: PROCEED STRAIGHT AHEAD ONLY
- R-11: PROCEED TO THE LEFT ONLY
- R-12: PROCEED STRAIGHT AHEAD ONLY
- R-13: TURN TO THE RIGHT ONLY
- R-14: TURN TO THE LEFT ONLY
- R-15: PROCEED STRAIGHT OR RIGHT ONLY
- R-16: PROCEED STRAIGHT OR LEFT ONLY
- R-17: PROCEED STRAIGHT OR RIGHT ONLY
- R-18: PROCEED STRAIGHT OR LEFT ONLY
- R-19: PROCEED STRAIGHT OR LEFT ONLY
- R-20: NO RIGHT TURN
- R-21: NO LEFT TURN
- R-22: NO U-TURN
- R-23: ALCOHOL PROHIBITION
- R-24: HEAVY VEHICLE OVERTAKING PROHIBITION
- R-25: SPEED LIMIT
- R-26: SPEED LIMIT
- R-27: SPEED LIMIT
- R-28: SPEED LIMIT
- R-29: SPEED LIMIT
- R-30: SPEED LIMIT
- R-31: SPEED LIMIT
- R-32: SPEED LIMIT
- R-33: SPEED LIMIT
- R-34: SPEED LIMIT
- R-35: SPEED LIMIT
- R-36: SPEED LIMIT
- R-37: SPEED LIMIT
- R-38: SPEED LIMIT
- R-39: SPEED LIMIT
- R-40: MAJOR ROAD AHEAD
- R-41: KEEP LEFT

**WARNING SIGNS (W-1 to W-21):**

- W-1: CURVE TOWARDS RIGHT
- W-2: CURVE TOWARDS LEFT
- W-3: LEFT REVERSE CURVE
- W-4: RIGHT REVERSE CURVE
- W-5: WINDING ROAD
- W-6: UP-GRADE
- W-7: DOWN-GRADE
- W-8: ROADWAY NARROWS
- W-9: JUNCTION
- W-10: JUNCTION
- W-11: JUNCTION
- W-12: HUMP
- W-13: FALLING ROCK
- W-14: PEDESTRIAN CROSSING
- W-15: CHILDREN CROSSING
- W-16: CATTLE CROSSING
- W-17: WILD ANIMAL CROSSING
- W-18: MAJOR ROAD AHEAD
- W-19: MINOR ROAD CROSSING FROM LEFT
- W-20: MINOR ROAD CROSSING WITH AN OFFSET
- W-21: MINOR ROAD CROSSING WITH AN OFFSET
- W-22: OTHER DANGER WARNING
- W-23: MAJOR ROAD CROSSING ON LEFT SIDE
- W-24: MAJOR ROAD CROSSING ON RIGHT SIDE
- W-25: ROADWAY NARROWS
- W-26: JUNCTION
- W-27: JUNCTION
- W-28: HUMP
- W-29: FALLING ROCK
- W-30: PEDESTRIAN CROSSING
- W-31: CHILDREN CROSSING
- W-32: CATTLE CROSSING
- W-33: WILD ANIMAL CROSSING

**CHEVRON SIGNS (WS-1 to WS-2):**

- WS-1: CHEVRON SIGN
- WS-2: CHEVRON SIGN

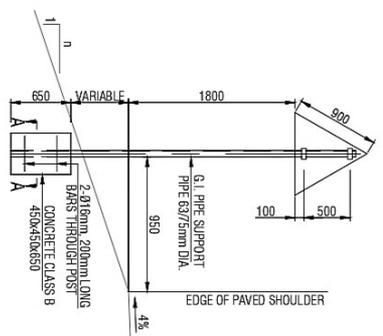
**OTHER SIGNS:**

- (I-1) ONE-WAY AHEAD
- (I-2) ONE WAY TO THE RIGHT
- (I-3) BUS STOP
- (I-4) PARKING
- (I-5) ADVANCE DIRECTION
- (I-6) DESTINATION
- (I-7) NAME OF CITY
- (I-8) DIRECTION
- (I-9) BEGINNING OF BUILT-UP AREA
- (I-10) END OF BUILT-UP AREA
- (I-11) FIRST AID STATION
- (I-12) AUTO REPAIR SHOP
- (I-13) PHONE SERVICE
- (I-14) PETROL PUMP
- (I-15) HOTEL / MOTEL
- (I-16) RESTAURANT
- (I-17) TOLL AHEAD
- (I-18) SCHOOL AHEAD
- (I-19) SCHOOL ZONE END
- (I-20) HOSPITAL
- (I-21) DO NOT ENTER

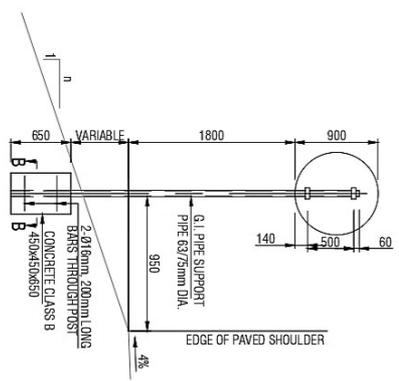
# TENDER DRAWING

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
*(Works & Services Department)*

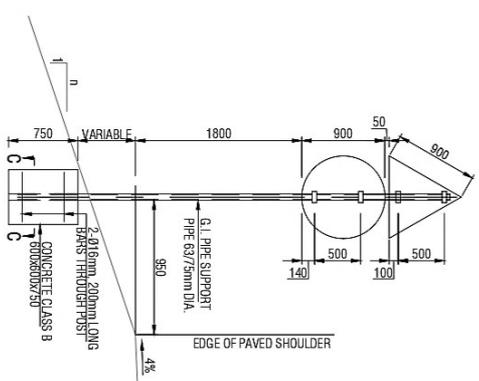
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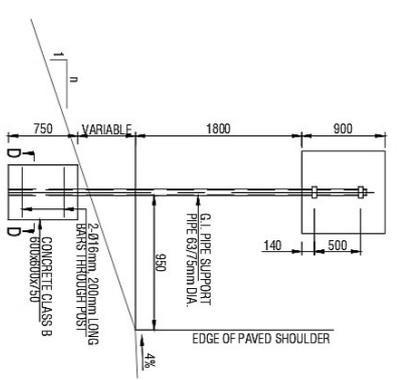
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CATEGORY 1



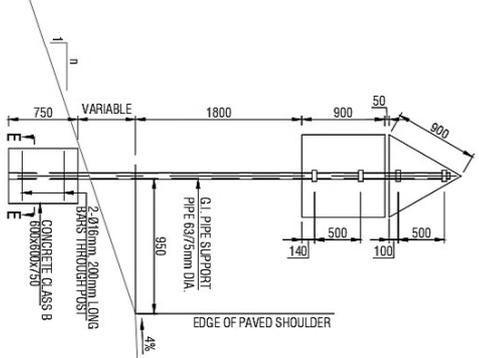
SECT B-B  
CATEGORY 2



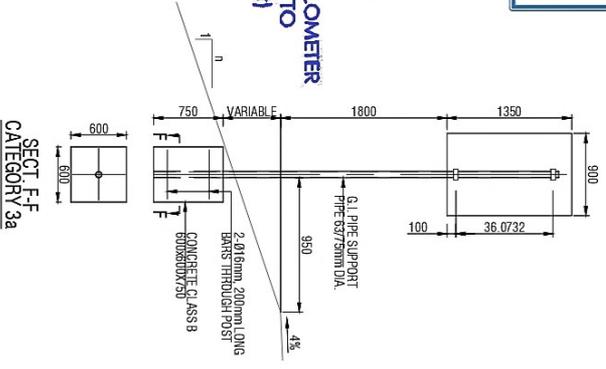
SECT C-C  
CATEGORY 1 & 2  
(DOUBLE SIGN)



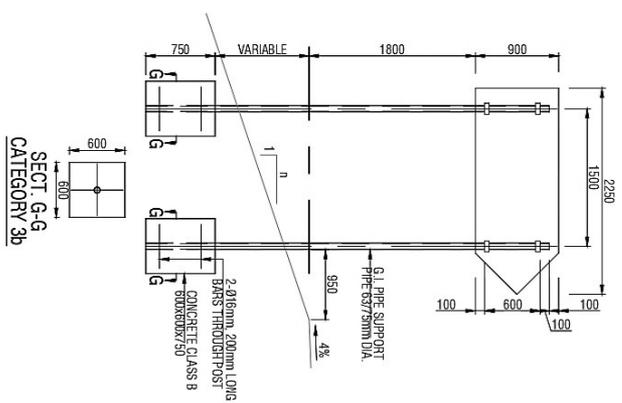
SECT D-D  
CATEGORY 3a



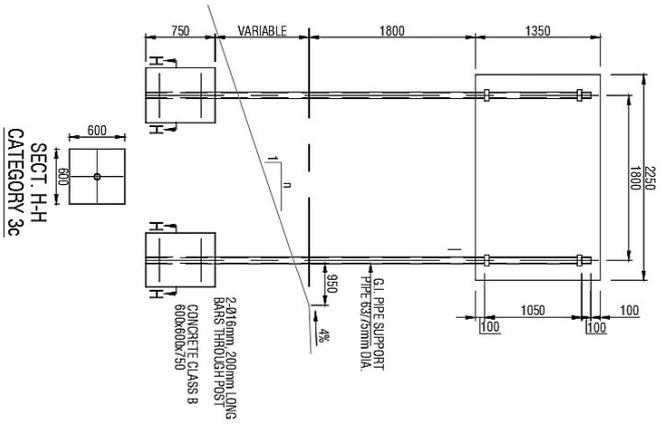
SECT E-E  
CATEGORY 1 & 3a  
(DOUBLE SIGN)



SECT F-F  
CATEGORY 3a



SECT G-G  
CATEGORY 3b



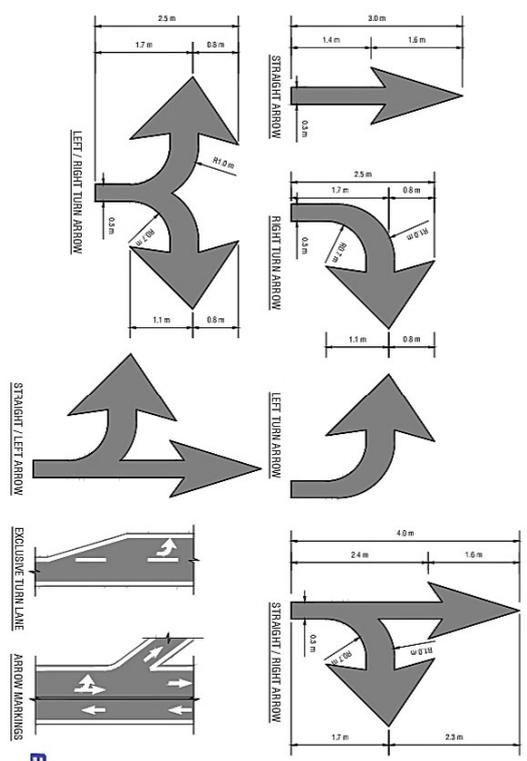
SECT H-H  
CATEGORY 3c

CLIENT:- PROJECT:- DESIGN CONSULTANT: TITLE:- ED/NO. DATE: DESCRIPTION: DRAWN: AFRUZ ALAM: DRAWING NO. HWY-GEN-09  
 WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km+7+075 (36.00 Km) Joint Venture (JV) TYPICAL DETAILS OF TRAFFIC SIGN INSTALLATION



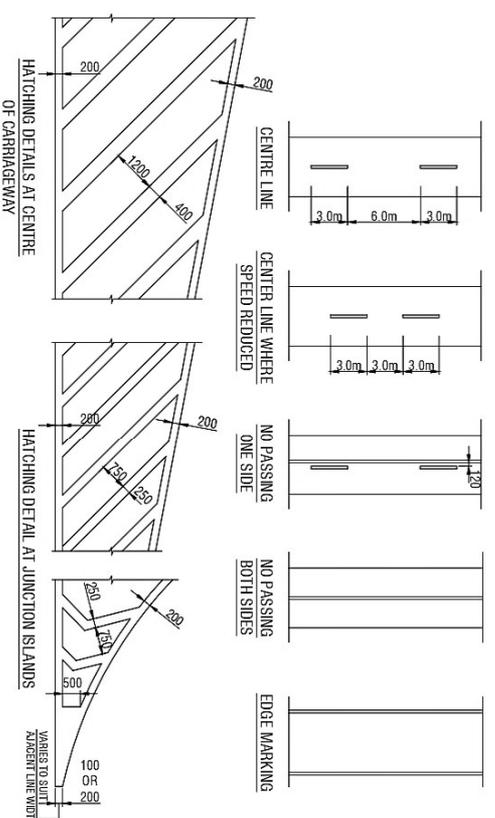
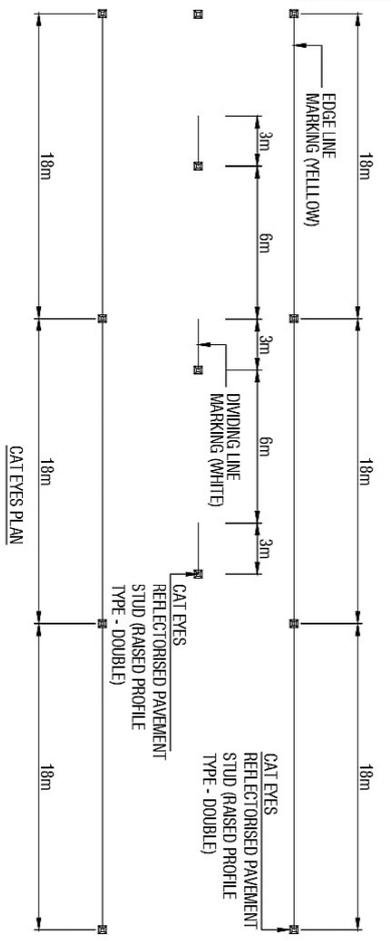
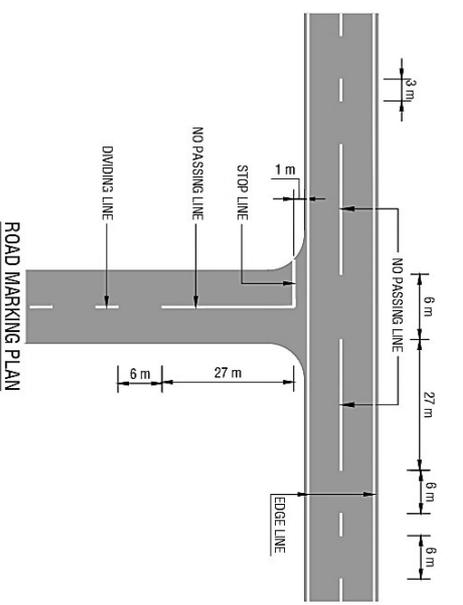
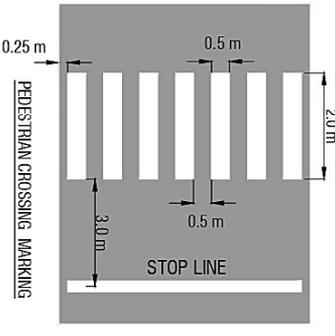
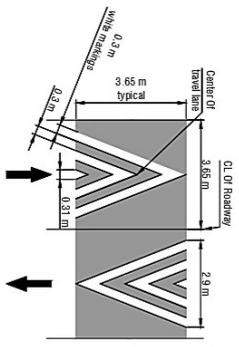
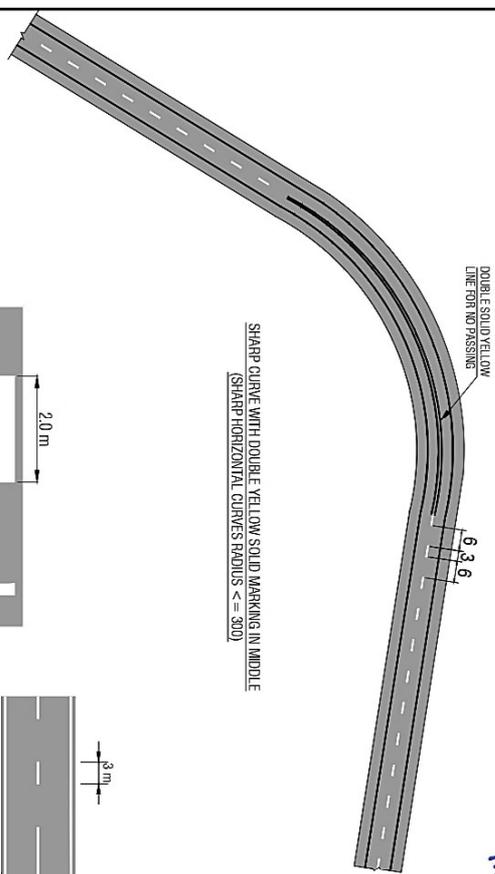
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			AFRUZ ALAM	HWY-GEN-09
			DESIGNED: NAEM QAMAR	Scale:- N.T.S
			CHECKED: BUY AL ABRO	Edition: 0
			DATE: OCTOBER, 2025	

# TENDER DRAWING



**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATO**  
**(Works & Services Department)**

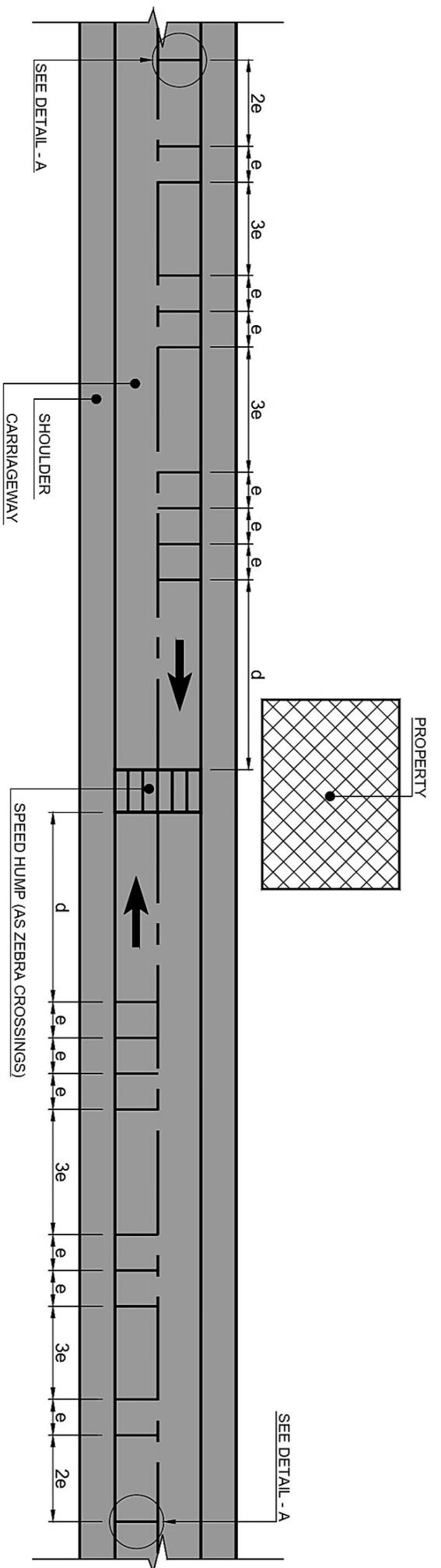
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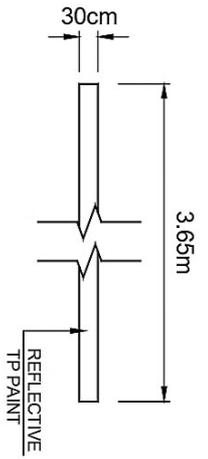
ROAD MARKINGS LINE DIMENSIONS			
DESCRIPTION	LINE	GAP	WIDTH
CENTRE LINE	3000	6000	150
NO PASSING	CONTINUOUS	150	WHITE
EDGE MARKING	CONTINUOUS	200	YELLOW
NO PARKING	CONTINUOUS	150	WHITE
EDGE LINE (MINOR T)	1000	1000	150
STOP LINE	CONTINUOUS	300	WHITE
GUIDE LINE	1000	1000	300
GIVE WAY LINE	500	500	300

**NOTE:**  
1. 90° LATERAL CLEARANCE OF TRAFFIC SIGNS REFER TO STANDARD SPECIFICATIONS 3000 MARKINGS BY WTC, JULY 1989 AND AUGUST 2009  
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE MENTIONED.

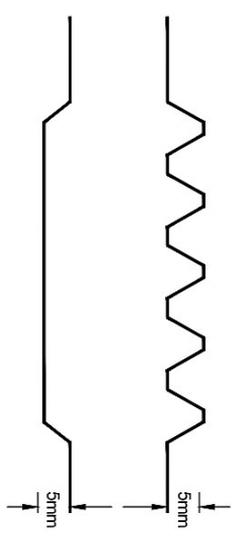
<b>CLIENT:-</b> WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	<b>PROJECT:-</b> EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+000 To Km 14+075 (36.00 Km)	<b>DESIGN CONSULTANT</b> 	<b>TITLE:-</b> PAVEMENT MARKING AND CAT EYES DETAILS												
<table border="1" style="width: 100%;"> <tr> <th>ED/NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	ED/NO.	DATE	DESCRIPTION										<b>DRAWN:-</b> AFROZ ALAM <b>DESIGNED:-</b> NAEM QAMAR <b>CHECKED:-</b> BUYAL ABRO <b>DATE:</b> OCTOBER, 2025	<b>DRAWING NO.:</b> HWY-GEN-11 <b>Scale:-</b> N.T.S <b>Edition:</b> 0	
ED/NO.	DATE	DESCRIPTION													



**PLAN OF TRANSVERSE RUMBLE STRIPS**



**PLAN OF RUMBLE STRIP**



**RUMBLE STRIP CROSS SECTION  
DETAIL - A**

SPEED (km/h)	DISTANCE FROM EDGE OF SPEED HUMPS	
	e (m)	d (m)
<80	5	50
80 - 100	6	75

- NOTES:-**
- 1 - ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT OTHERWISE MENTIONED.
  - 2 - SPEED HUMPS/RUMBLE STRIPS WILL BE PROVIDED NEAR AMENITIES SUCH AS MOSQUES, PLAYGROUNDS, SCHOOLS, HOSPITALS, ETC., FOR TRAFFIC CALMING AS PER DECISION OF THE ENGINEER.

**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATO  
(Works & Services Department)

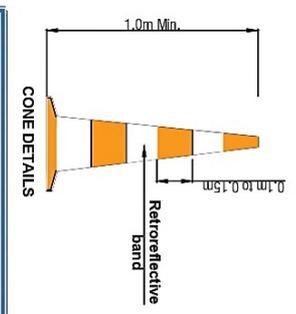
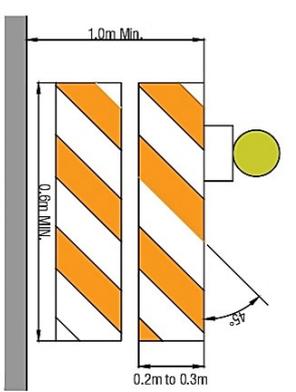
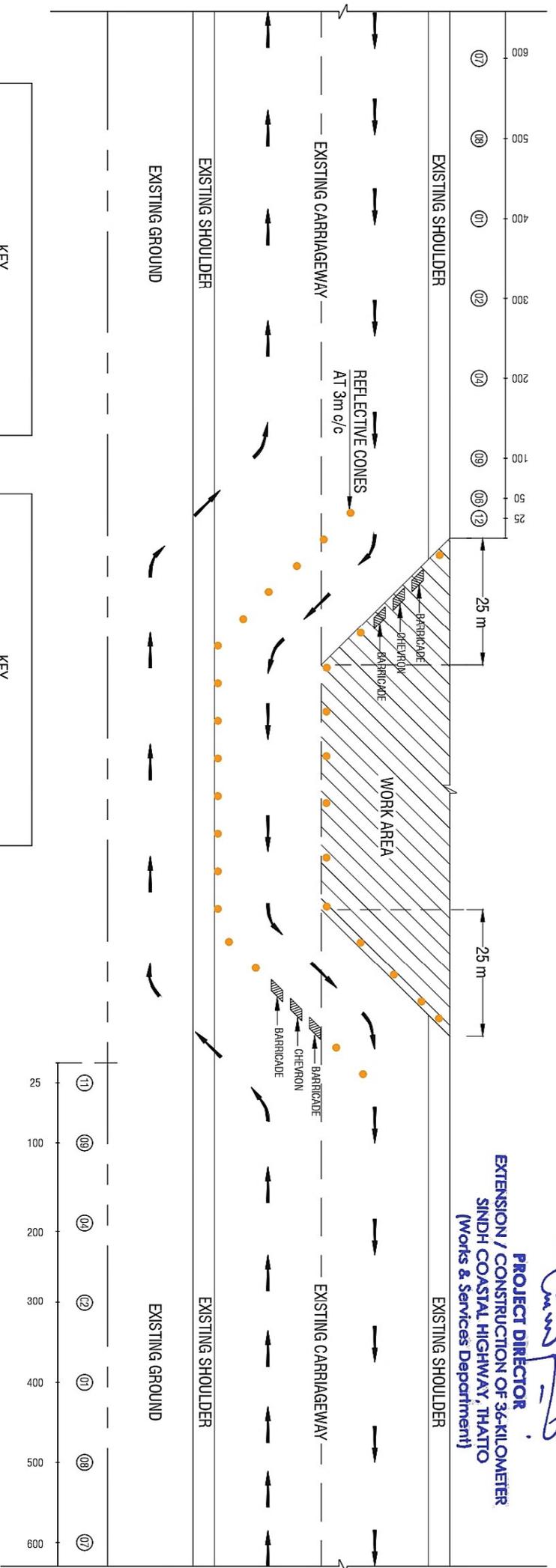
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CLIENT:-   WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- <b>EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY</b> Phase - II: From Km 11+000 To Km 47+075 (36.00 Km)	DESIGN CONSULTANT   Joint Venture (JV) 	TITLE:-  RUMBLE STRIP DETAILS
ED.NO. DATE    	DESCRIPTION    	DRAWN: AFROZ ALAM  DESIGNED: NAEM QAMAR  CHECKED: BUY AL ABRO DATE: OCTOBER, 2025	DRAWING NO. HWY-GEN-11A  Scale:- N.T.S  Edition 0



**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

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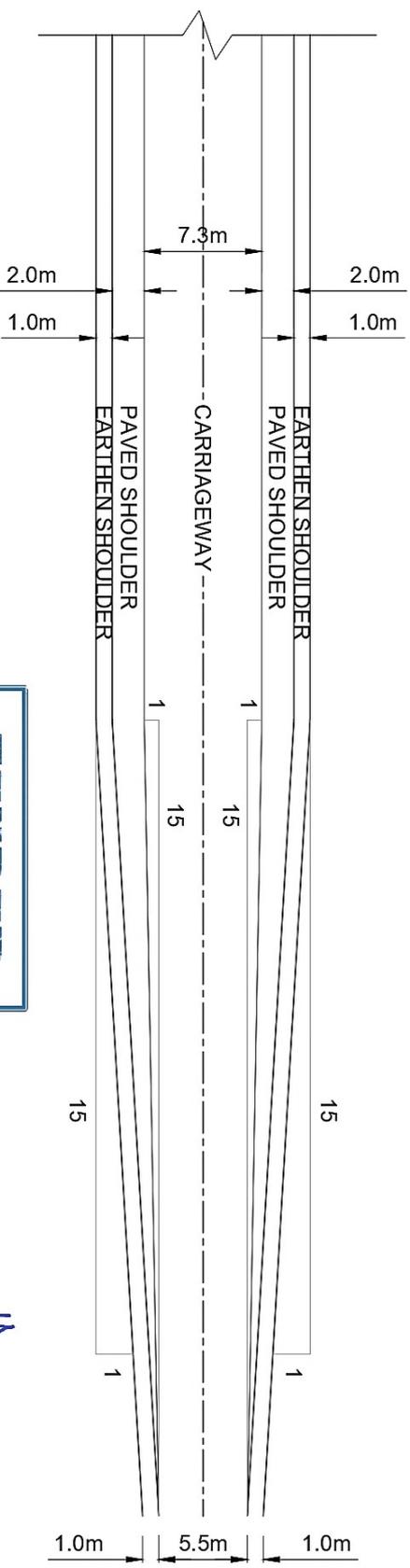
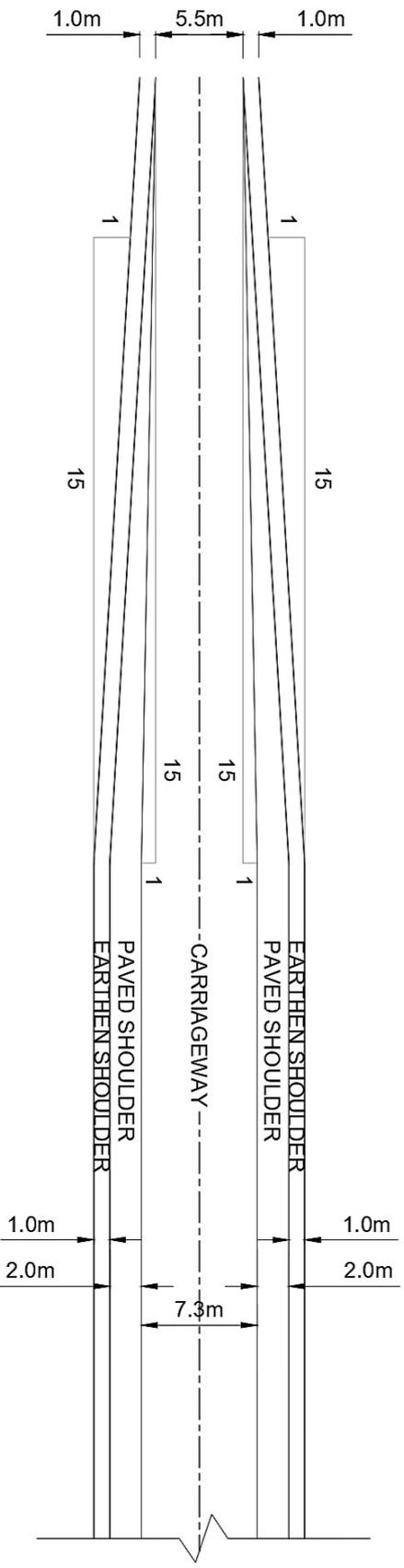


**TENDER DRAWING**

**NOTE :-**  
 1. A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

KEY		KEY	
01.	SLOW DOWN	07.	MEN WORKING
02.	SPEED LIMIT	08.	ROAD CLOSED
03.	SINGLE LANE	09.	DIVERSION
04.	NO OVERTAKING	10.	TWO-WAYS TRAFFIC
05.	END OF RESTRICTION	11.	KEEP LEFT
06.	CAUTION "ROAD CONSTRUCTION"	12.	KEEP RIGHT

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km+7+075 (36.00 Km)	DESIGN CONSULTANT TENDER	TITLE:- TYPICAL TRAFFIC MANAGEMENT PLAN DURING CONSTRUCTION
EDNO.	DATE	DESCRIPTION	DRAWING NO.
DESIGNED:	AFROZ ALAM		HWY-GEN-12
CHECKED:	NAEM QAMAR		Scale:-
DATE:	BUY AL ABHO		N.T.S
	OCTOBER, 2025		Edition
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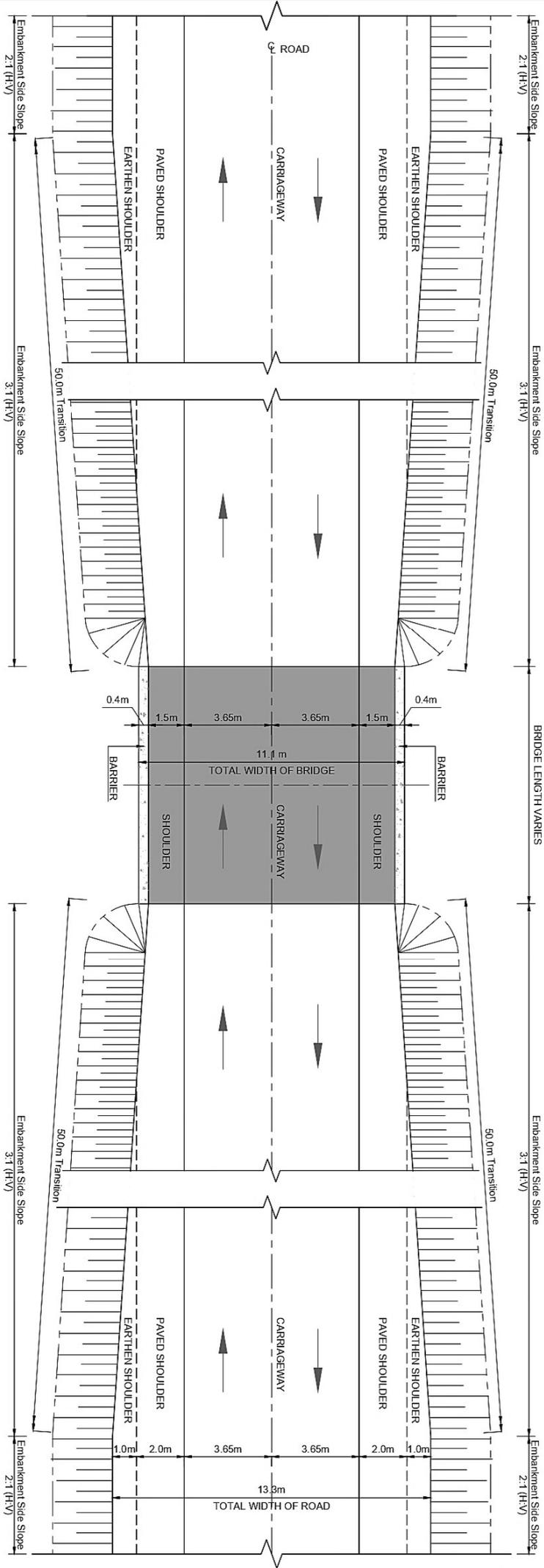


**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

*Handwritten Signature*

CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- <b>EXTENSION / CONSTRUCTION OF SINDH</b> <b>COASTAL HIGHWAY</b> Phase -II: From Km 11+000 To Km+7+075 (36.00 Km)	DESIGN CONSULTANT  Joint Venture (JV) 	TITLE:- TYPICAL DETAIL OF TRANSITION IN SHOULDERS AND CARRIAGEWAY AT CONSTRAINT ROW IN URBAN AREAS																				
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ED.NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	ED.NO.	DATE	DESCRIPTION																	
ED.NO.	DATE	DESCRIPTION																					
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">DRAWN:</th> <th style="width: 15%;">DESIGNED:</th> <th style="width: 15%;">CHECKED:</th> <th style="width: 15%;">DATE:</th> <th style="width: 40%;">DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td>AFROZ ALAM</td> <td>NAEM QAMAR</td> <td>BUY AL ABHO</td> <td>OCTOBER, 2025</td> <td>HWY-GEN-13</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td>Scale:- N.T.S</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td>Edition: 0</td> </tr> </tbody> </table>	DRAWN:	DESIGNED:	CHECKED:	DATE:	DRAWING NO.	AFROZ ALAM	NAEM QAMAR	BUY AL ABHO	OCTOBER, 2025	HWY-GEN-13					Scale:- N.T.S					Edition: 0
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AFROZ ALAM	NAEM QAMAR	BUY AL ABHO	OCTOBER, 2025	HWY-GEN-13																			
				Scale:- N.T.S																			
				Edition: 0																			



TYPICAL PLANS SHOWING TRANSITION OF SHOULDERS AT BRIDGE

*Handwritten signature*

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

**TENDER DRAWING**

CLIENT:-	PROJECT:-	DESIGN CONSULTANT	TITLE:-	ED.NOL	DATE	DESCRIPTION	DRAWN:-	DRAWING NO.
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WORKS AND SERVICES DEPARTMENT  
 GOVERNMENT OF SINDH

EXTENSION / CONSTRUCTION OF SINDH  
 COASTAL HIGHWAY  
 Phase -II: From Km 11+000 To Km-47+075  
 (36.00 Km)

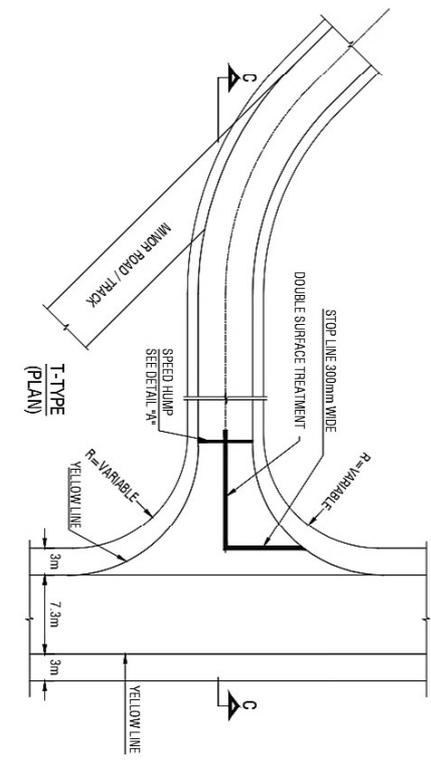
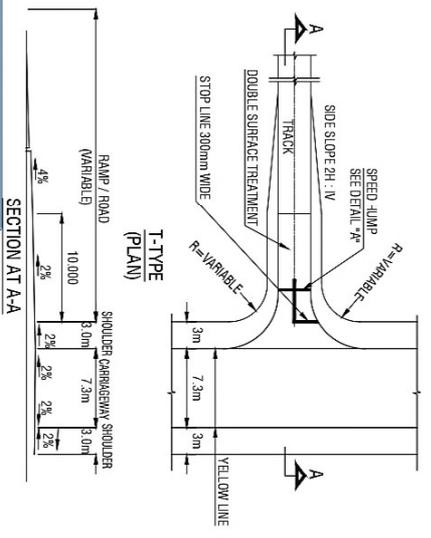


TYPICAL TRANSITION DETAILS AT  
 BRIDGE LOCATIONS

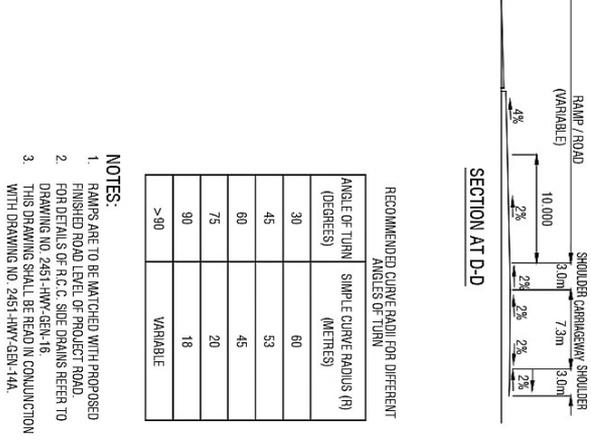
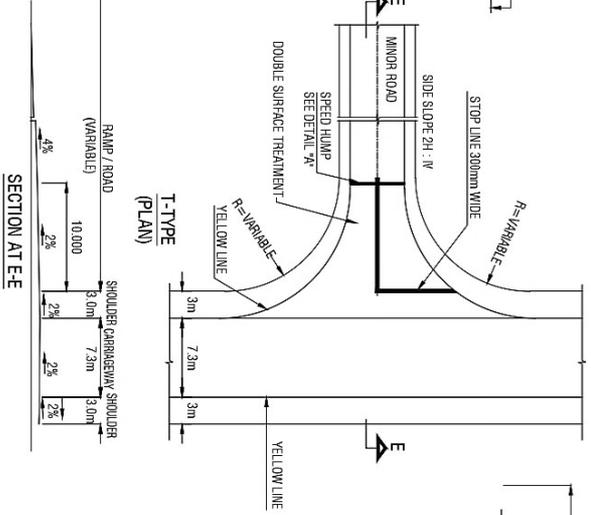
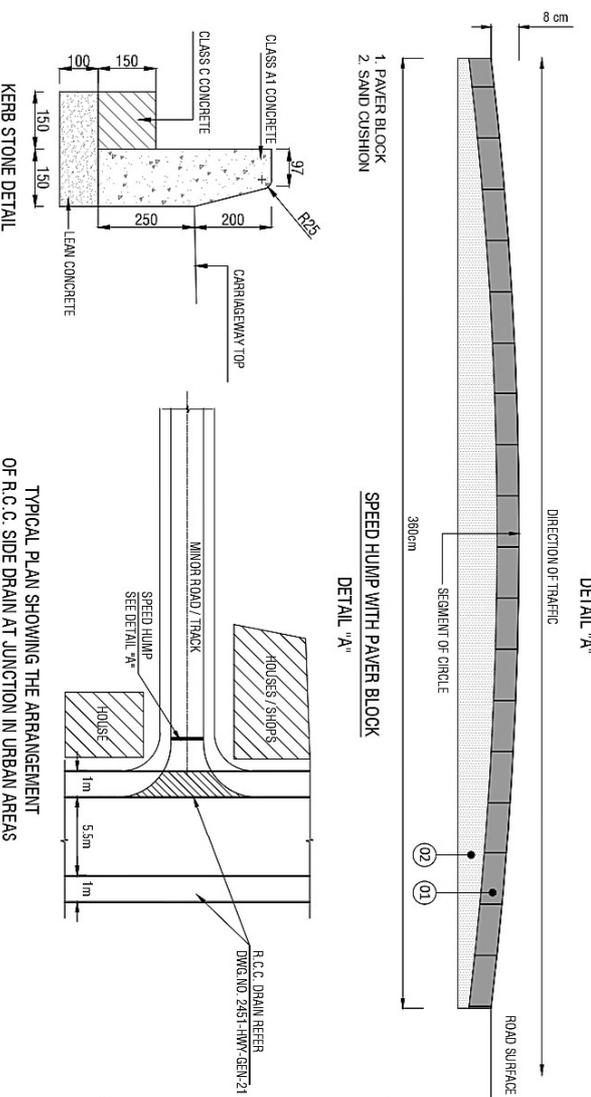
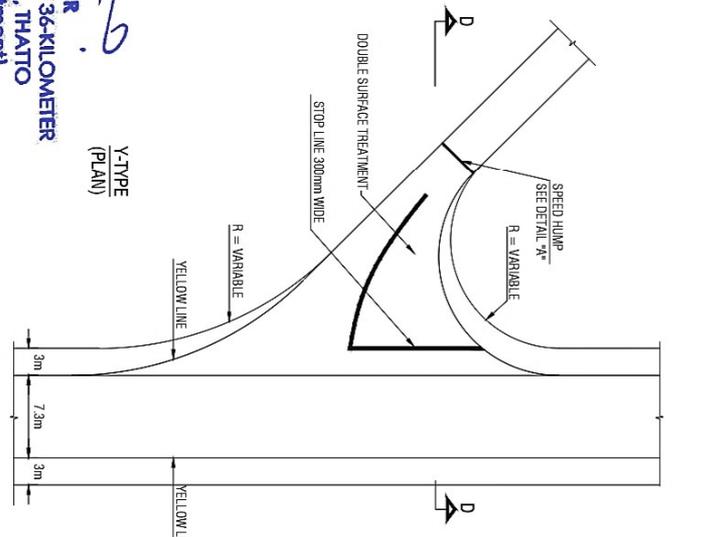
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AFROZ ALAM	NAEM QAMAR	BUY AL ABRU	OCTOBER, 2025	HWY-GEN-14
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				N.T.S
				Edition
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# TENDER DRAWING



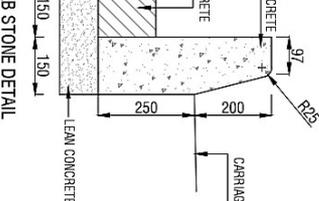
**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**



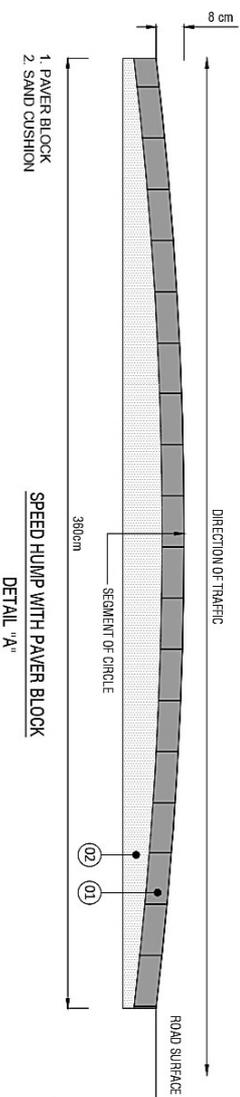
- NOTES:**
- RAMPS ARE TO BE MATCHED WITH PROPOSED FINISHED ROAD LEVEL OF PROJECT ROAD.
  - FOR DETAILS OF R.C.C. SIDE DRAINS REFER TO DRAWING NO. 2451-HWY-GEN-16.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. 2451-HWY-GEN-14A.

RECOMMENDED CURVE RADI FOR DIFFERENT ANGLES OF TURN	ANGLE OF TURN (DEGREES)	SIMPLE CURVE RADIUS (M) (METRES)
	30	60
	45	53
	60	45
	75	20
	90	18
	>90	VARIABLE

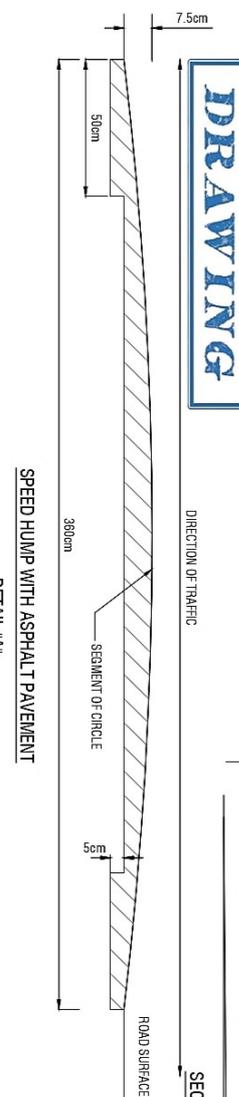
**TYPICAL PLAN SHOWING THE ARRANGEMENT OF R.C.C. SIDE DRAIN AT JUNCTION IN URBAN AREAS**



**SPEED HUMP WITH PAVER BLOCK DETAIL 'A'**

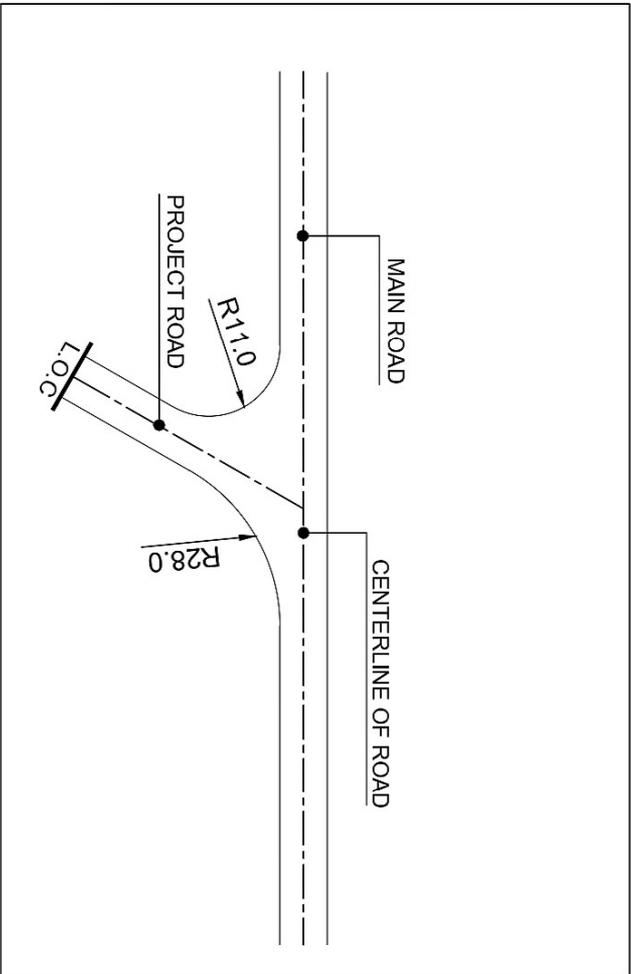


**SPEED HUMP WITH ASPHALT PAVEMENT DETAIL 'A'**

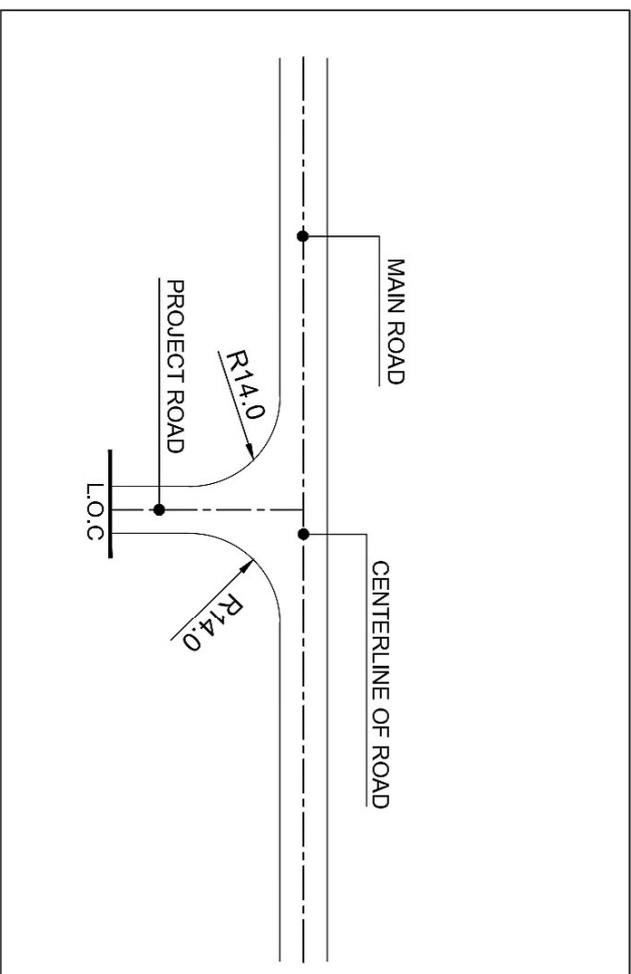


CLIENT:-	PROJECT:-	DESIGN CONSULTANT	TITLE:-	ED. NO.	DATE	DESCRIPTION	DRAWN:-	DRAWING NO.
WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+400 To Km 47+075 (36.00 Km)	ES&S Joint Venture (JV) AA	MINOR INTERSECTION, SPEED HUMP AND KERB STONE DETAILS				AFROZ ALAM	HWY-GEN-15
							NAEM QAMAR	Scale:- N.T.S
							BUY AL ABRU	Edition 0
							OCTOBER, 2025	

**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
 SINDH COASTAL HIGHWAY, THATTO  
 (Works & Services Department)

TYP. INTERSECTION  
 AT 60° DEGREES



TYP. INTERSECTION  
 AT 90° DEGREES

**TENDER  
 DRAWING**

CLIENT:- PROJECT:- DESIGN CONSULTANT: TITLE:-

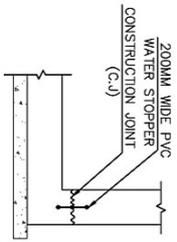
WORKS AND SERVICES DEPARTMENT  
 GOVERNMENT OF SINDH

EXTENSION / CONSTRUCTION OF SINDH  
 COASTAL HIGHWAY  
 Phase -II: From Km 11+000 To Km+7+075  
 (36.00 Km)

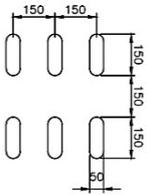


INTERSECTION DETAILS

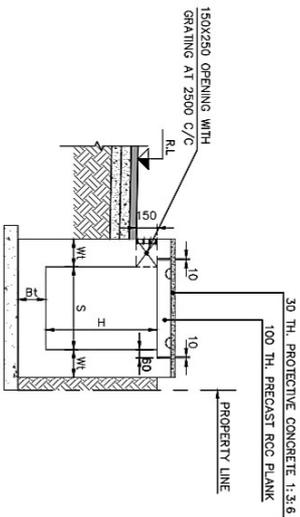
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			AFROZ ALAM	HWY-GEN-13A
			DESIGNED: NAEM QAMAR	Scale:- N.T.S
			CHECKED: BUY AL ABRO	Edition: 0
			DATE: OCTOBER, 2025	



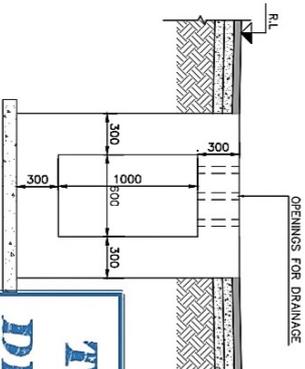
TYP. DETAIL OF WATER STOPPER  
SCALE 1:20



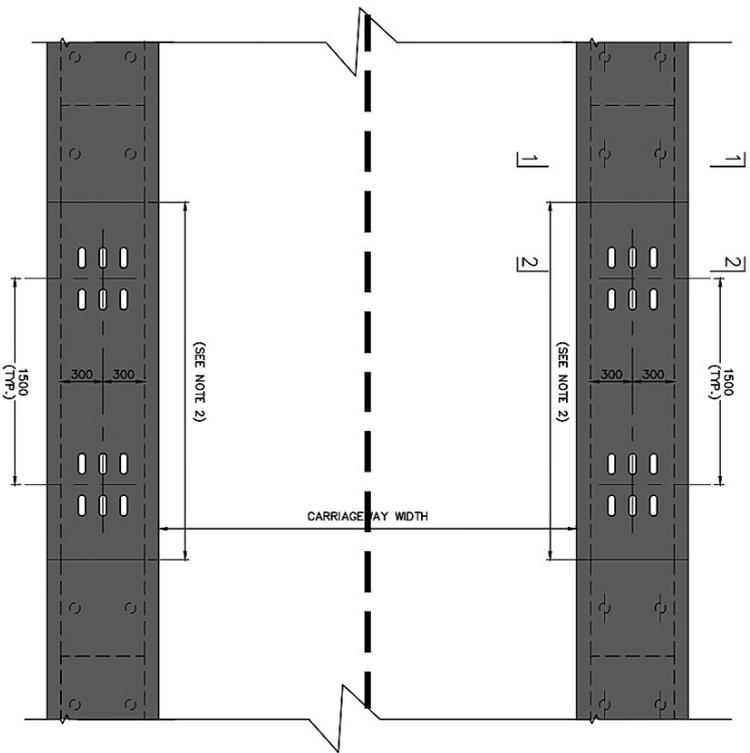
TYP. DRAIN OPENING DETAIL



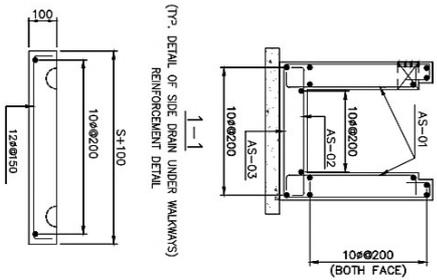
1-1  
(TYP. DETAIL OF SIDE DRAIN UNDER WALKWAYS)  
DIMENSIONAL DETAIL



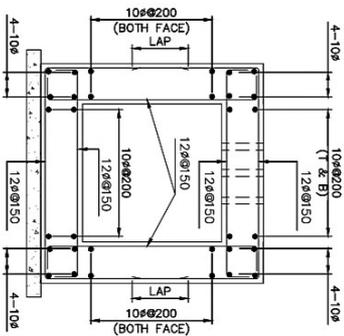
2-2  
(TYP. DETAIL OF SIDE DRAIN UNDER ROADWAYS)  
DIMENSIONAL DETAIL



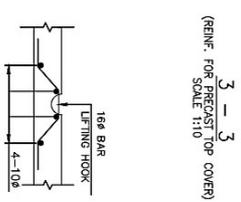
TYP. PLAN SHOWING DRIVEWAY WITH DRAIN



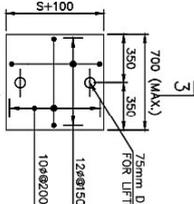
1-1  
(TYP. DETAIL OF SIDE DRAIN UNDER WALLWAYS)  
REINFORCEMENT DETAIL



2-2  
(TYP. DETAIL OF SIDE DRAIN UNDER ROADWAYS)  
REINFORCEMENT DETAIL



LIFTING HOOK DETAIL  
SCALE 1:10



3-3  
(TYP. DETAIL OF PRECAST  
RCC PLANK)  
SCALE 1:20

**NOTES:**

- 1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DRAWINGS.
- 2 - DRAIN UNDER ROADWAY SECTION WILL BE APPLICABLE AT LOCATIONS WHERE DRAIN IS UNDER ROADWAY OR DRAIN SLAB TOP LEVEL AND FINISH ROAD LEVEL ARE SAME.
- 3 - CONCRETE TYPE SHALL BE A3, HAVE COMPRESSIVE STRENGTH  $f_c = 28$  MPa AFTER 28 DAYS MEASURE ON CYLINDERS.
- 4 - REINFORCEMENT STEEL SHALL BE ASTM A615-60 HAVING A YIELD STRENGTH OF 410 MPa.
- 5 - WATER STOPPER SHALL BE PROVIDED AT ALL CONSTRUCTION AND EXPANSION JOINTS.
- 6 - ALL DIMENSIONS ARE IN MM, EXCEPT OTHERWISE MENTIONED.

TABLE-1 SCHEDULE OF DRAIN

DRAIN TYPE	DRAIN DIMENSIONS					
	WIDTH S	DEPTH H	Bt	Wt	REINF. BAR AS-01	REINF. BAR AS-02
ROAD SIDE	600	1500	250	200	10x150	10x150
					10x150	10x125

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Handwritten signature*

**TENDER DRAWING**

CLIENT:-  
WORKS AND SERVICES DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF SINDH  
COASTAL HIGHWAY  
Phase -III From Km 11+000 To Km+7+075  
(36.00 Km)

DESIGN CONSULTANT  
Joint Venture (JV)  
AA

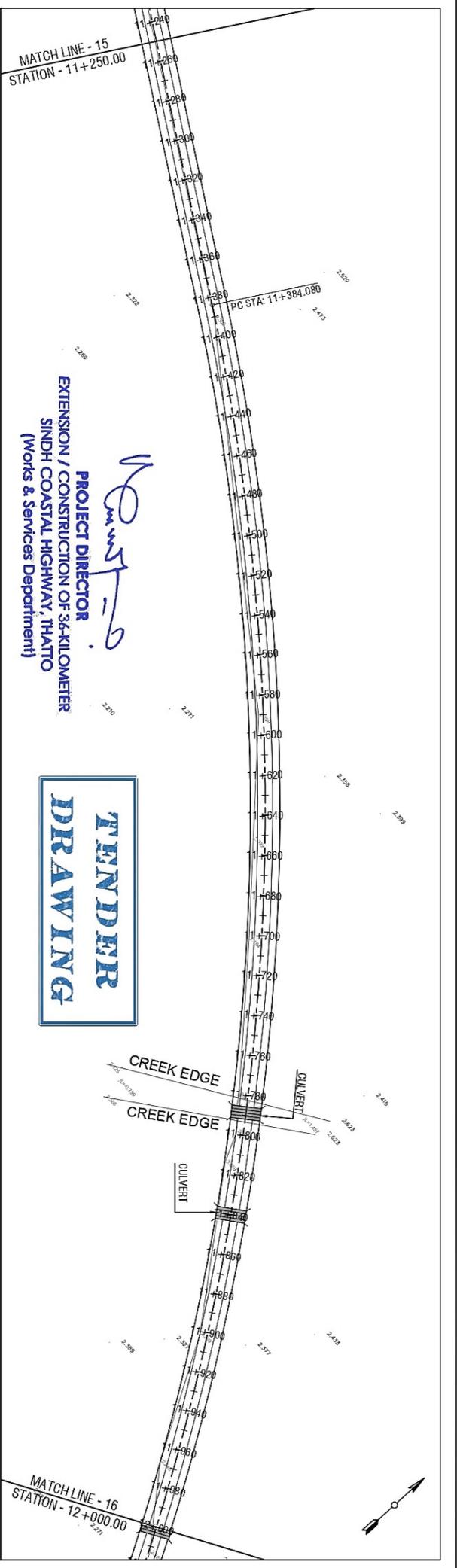
TITLE:-  
TYPICAL DRAIN DETAILS

EDNO	DATE	DESCRIPTION	DRAWN:	DRAWING NO.
			AFROZ ALAM	HWY-GEN-16
			DESIGNED: NAEM QAMAR	Scale:- N.T.S
			CHECKED: BUYAL ABRO	Edition: 0
			DATE: OCTOBER, 2025	

**TENDER  
DRAWING**

# **PLAN & PROFILE DRAWINGS**

  
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



STATION	EXISTING	PROPOSED
11+250	2.369	5.969
11+260	2.368	5.980
11+280	2.368	6.003
11+300	2.367	6.026
11+320	2.366	6.049
11+340	2.366	6.071
11+360	2.365	6.094
11+380	2.364	6.117
11+400	2.365	6.140
11+420	2.369	6.163
11+440	2.371	6.186
11+460	2.373	6.209
11+480	2.374	6.231
11+500	2.375	6.254
11+520	2.374	6.272
11+540	2.373	6.286
11+560	2.370	6.295
11+580	2.365	6.299
11+600	2.348	6.300
11+620	2.320	6.300
11+640	2.292	6.300
11+660	2.263	6.300
11+680	2.234	6.300
11+700	2.216	6.300
11+720	2.200	6.300
11+740	2.165	6.300
11+760	2.129	6.300
11+780	2.042	6.300
11+800	2.524	6.300
11+820	3.365	6.300
11+840	3.291	6.291
11+860	2.973	6.262
11+880	2.652	6.216
11+900	2.330	6.150
11+920	2.294	6.066
11+940	2.284	5.972
11+960	2.261	5.878
11+980	2.220	5.784
12+000	2.168	5.691

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF 3.6 KILOMETER SINDH COASTAL HIGHWAY, (THATO) (Works & Services Department)

DESIGN CONSULTANT: Joint Venture (JV) [Logo]

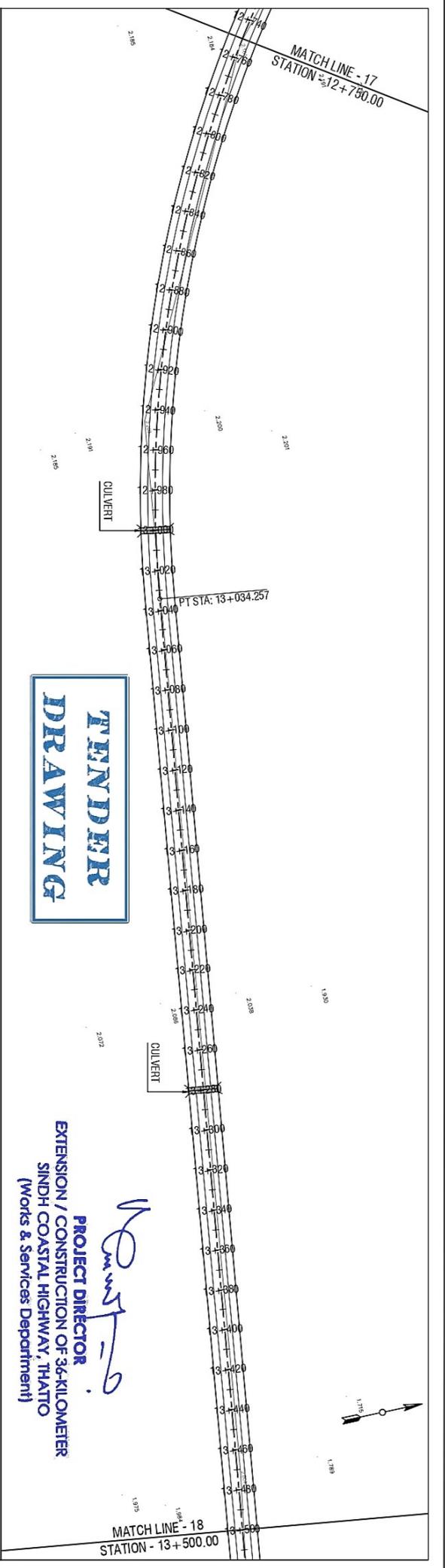
TITLE: PLAN & PROFILE FROM STA. 11+250 TO STA. 12+000

EDNG.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: SAMMA  
CHECKED: RUX ALABRO  
DATE: OCTOBER 2011

DRAWING NO. HWY-PANEL-PP-16  
Scale: H=1:2000 V=1:200  
Edition: 0





**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3.6 KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

STATION	EXISTING	PROPOSED
12+750	2.184	6.219
12+760	2.185	6.223
12+780	2.186	6.231
12+800	2.188	6.238
12+820	2.190	6.246
12+840	2.191	6.254
12+860	2.193	6.262
12+880	2.195	6.269
12+900	2.196	6.277
12+920	2.198	6.284
12+940	2.200	6.289
12+960	2.192	6.291
12+980	2.181	6.290
13+000	2.178	6.286
13+020	2.172	6.279
13+040	2.165	6.272
13+060	2.157	6.266
13+080	2.150	6.259
13+100	2.142	6.252
13+120	2.135	6.245
13+140	2.127	6.238
13+160	2.120	6.231
13+180	2.112	6.224
13+200	2.105	6.217
13+220	2.097	6.210
13+240	2.090	6.203
13+260	2.082	6.197
13+280	2.075	6.190
13+300	2.067	6.183
13+320	2.060	6.176
13+340	2.052	6.169
13+360	2.045	6.162
13+380	2.038	6.155
13+400	2.030	6.148
13+420	2.023	6.141
13+440	2.015	6.134
13+460	2.008	6.128
13+480	2.002	6.121
13+500	2.002	6.114

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+900 To Km 47+075 (36.00 Km)

**DESIGN CONSULTANT:**

**TITLE:-** PLAN & PROFILE FROM STA. 12+750 TO STA. 13+500

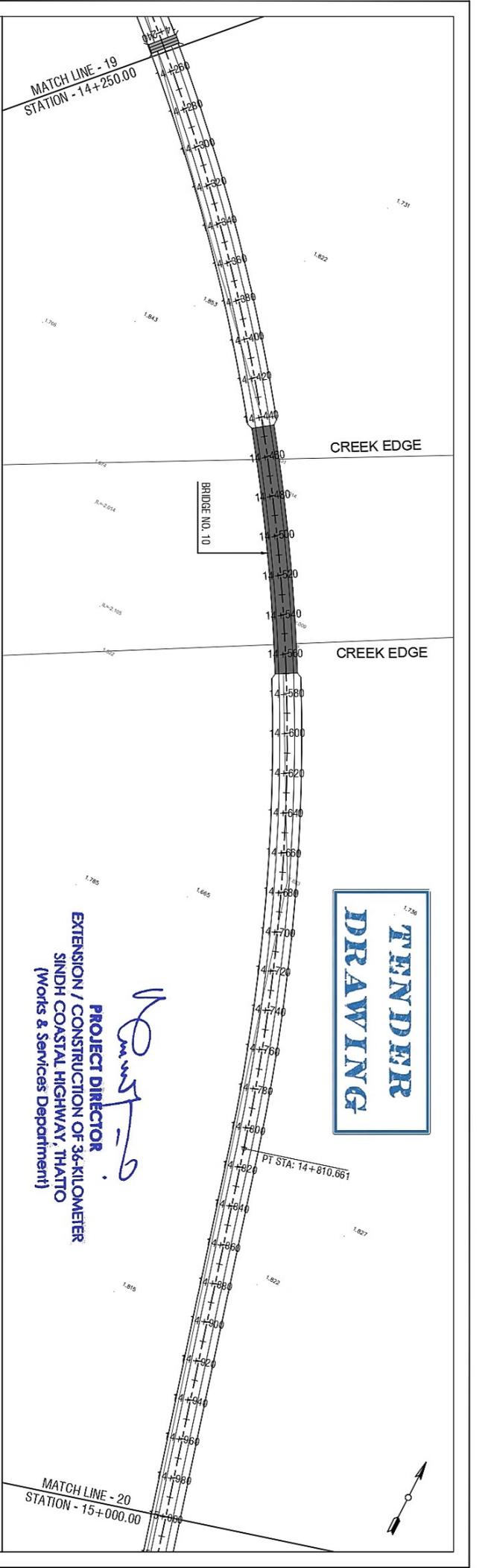
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<b>DESIGNED:</b> SAMMA	<b>Scale:-</b> H=1:2000 V=1:200
<b>CHECKED:</b> RUX ALI ABRRO	<b>Edition:</b> 0
<b>DATE:</b> OCTOBER, 2011	



EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB	SAMMA	RUX ALI ABRU	OCTOBER 2025

STATION	EXISTING	PROPOSED
14+250	1.896	5.758
14+260	1.892	5.753
14+280	1.884	5.743
14+300	1.877	5.734
14+320	1.871	5.724
14+340	1.864	5.715
14+360	1.858	5.709
14+380	1.853	5.704
14+400	1.848	5.701
14+420	1.843	5.700
14+440	1.838	5.700
14+460	1.829	5.700
14+480	0.361	5.700
14+500	-1.180	5.700
14+520	-2.082	5.700
14+540	-2.002	5.700
14+560	1.877	5.700
14+580	1.867	5.700
14+600	1.857	5.701
14+620	1.848	5.711
14+640	1.834	5.729
14+660	1.815	5.758
14+680	1.820	5.795
14+700	1.823	5.841
14+720	1.822	5.888
14+740	1.822	5.935
14+760	1.822	5.982
14+780	1.822	6.025
14+800	1.821	6.060
14+820	1.821	6.086
14+840	1.821	6.105
14+860	1.820	6.115
14+880	1.820	6.121
14+900	1.820	6.126
14+920	1.819	6.132
14+940	1.819	6.138
14+960	1.819	6.144
14+980	1.818	6.150
15+000	1.818	6.156



**PROJECT DIRECTOR / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)**

**TENDER  
DRAWING**



**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6 KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

*Mustafa*



**TENDER**  
**DRAWING**

MATCH LINE - 20  
 STATION - 15+000.00

15+000  
15+020  
15+040  
15+060  
15+080  
15+100  
15+120  
15+140  
15+160  
15+180  
15+200  
15+220  
15+240  
15+260  
15+280  
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15+540  
15+560  
15+580  
15+600  
15+620  
15+640  
15+660  
15+680  
15+700  
15+720  
15+740  
15+760

STATION	EXISTING	PROPOSED	
15+000	1.818	6.156	
15+020	1.817	6.162	
15+040	1.817	6.168	
15+060	1.817	6.174	
15+080	1.816	6.179	
15+100	1.816	6.185	
15+120	1.816	6.188	
15+140	1.815	6.183	
15+160	1.815	6.172	
15+180	1.814	6.154	
15+200	1.814	6.129	
15+220	1.814	6.100	
15+240	1.813	6.071	
15+260	1.813	6.043	
15+280	1.812	6.014	
15+300	1.812	5.986	
15+320	1.812	5.957	
15+340	1.811	5.929	
15+360	1.811	5.900	
15+380	1.810	5.871	
15+400	1.810	5.843	
15+420	1.810	5.814	
15+440	1.809	5.786	
15+460	1.809	5.758	
15+480	1.808	5.736	
15+500	1.808	5.721	
15+520	1.808	5.712	
15+540	1.807	5.710	
15+560	1.806	5.714	
15+580	1.805	5.718	
15+600	1.805	5.723	
15+620	1.805	5.727	
15+640	1.804	5.732	
15+660	1.804	5.736	
15+680	1.803	5.741	
15+700	1.803	5.745	
15+720	1.803	5.750	
15+740	1.802	5.755	
15+750	1.802	5.757	

VPC STA: 15+100.000  
 VPC ELE: 6.185

PVI STA=15+150.000  
 PVI ELEV=6.200  
 K=580.488  
 LVC=100.000  
 E=0.022

VPT STA: 15+200.000  
 VPT ELE: 6.129

VPC STA: 15+450.000  
 VPC ELE: 5.771

PVI STA=15+500.000  
 PVI ELEV=5.700  
 K=603.922  
 LVC=100.000  
 E=0.021

VPT STA: 15+550.000  
 VPT ELE: 5.711

CULVERT

CULVERT

-0.148%

0.023%

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 to Km 47+05 (36.00 Km)

DESIGN CONSULTANT: JVA

TITLE: PLAN & PROFILE FROM STA. 15+000 TO STA. 15+750

EDNO. DATE DESCRIPTION

DRAWN: ZOHAB

DESIGNED: SAMMA

CHECKED: RUX ALI ABRRO

DATE: OCTOBER 2025

DRAWING NO. HWY-PANEL-PP-21

Scale: H=1:2000 V=1:200

Edition: 0

MATCH LINE - 21  
STATION - 15+750.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Handwritten signature*

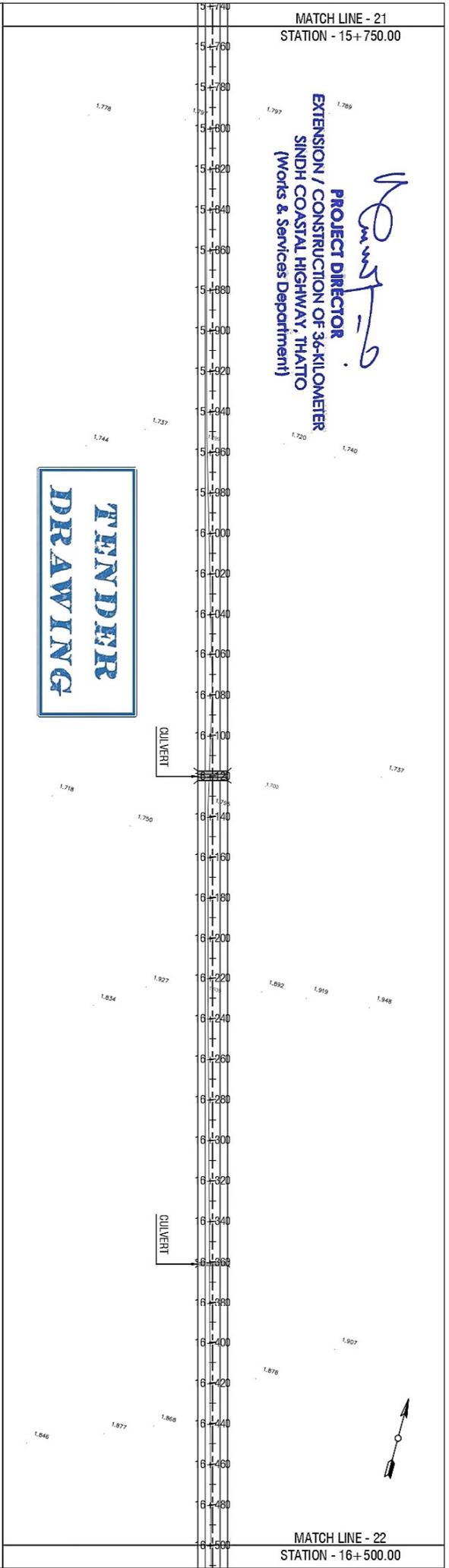
**TENDER  
DRAWING**

VPC STA: 15+890.000  
VPC ELE: 5.789

PV STA=15+940.000  
PV ELE=5.800  
K=8725.424  
LVC=100.000  
E=0.001

VPT STA: 15+990.000  
VPT ELE: 5.817

STATION	EXISTING	PROPOSED
15+750	1.802	5.757
15+760	1.802	5.759
15+780	1.802	5.764
15+800	1.801	5.768
15+820	1.801	5.773
15+840	1.800	5.777
15+860	1.800	5.782
15+880	1.800	5.786
15+900	1.799	5.791
15+920	1.799	5.796
15+940	1.797	5.801
15+960	1.744	5.807
15+980	1.593	5.814
16+000	1.442	5.821
16+020	1.291	5.827
16+040	1.139	5.834
16+060	0.988	5.841
16+080	0.911	5.848
16+100	1.224	5.855
16+120	1.537	5.862
16+140	1.795	5.868
16+160	1.829	5.875
16+180	1.861	5.882
16+200	1.893	5.889
16+220	1.925	5.896
16+240	1.935	5.903
16+260	1.937	5.909
16+280	1.943	5.916
16+300	1.948	5.923
16+320	1.953	5.930
16+340	1.959	5.937
16+360	1.964	5.944
16+380	1.970	5.950
16+400	1.975	5.957
16+420	1.980	5.964
16+440	1.986	5.971
16+460	1.991	5.978
16+480	1.997	5.985
16+500	2.002	5.991



MATCH LINE - 22  
STATION - 16+500.00

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 To km 47+075 (36.00 Km)

DESIGN CONSULTANT: JVC Joint Venture (JV)

TITLE: PLAN & PROFILE FROM STA. 15+750 TO STA. 16+500

EDNO. DATE DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: SAMMA  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER, 2025

DRAWING NO. HWY-PANEL-PP-22  
Scale: H=1:2000 V=1:200  
Edition: 0

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+000 (36.00 Km)

**DESIGN CONSULTANT**  


**TITLE:-** PLAN & PROFILE FROM STA. 16+500 TO STA. 17+250

EDNG.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** SAMMA  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER, 2025

**DRAWING NO.** HWY-PANEL-PP-23  
**Scale:-** H = 1:2000 V = 1:200  
**Edition,** 0

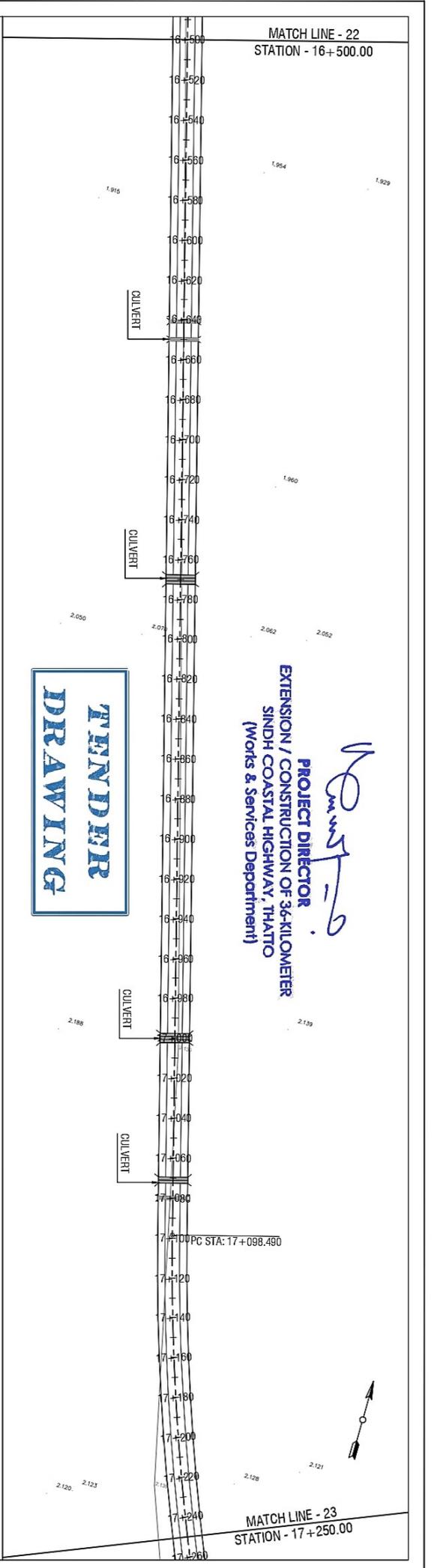
STATION	EXISTING	PROPOSED	
16+500	2.002	5.991	
16+520	2.007	5.998	
16+540	2.013	6.005	
16+560	2.018	6.012	
16+580	2.024	6.019	
16+600	2.029	6.026	
16+620	2.034	6.032	
16+640	2.040	6.039	
16+660	2.045	6.046	
16+680	2.050	6.053	
16+700	2.055	6.060	
16+720	2.060	6.067	
16+740	2.065	6.074	
16+760	2.070	6.080	
16+780	2.074	6.087	
16+800	2.079	6.094	
16+820	2.084	6.101	
16+840	2.089	6.108	
16+860	2.094	6.115	
16+880	2.099	6.121	
16+900	2.104	6.128	
16+920	2.108	6.135	
16+940	2.113	6.142	
16+960	2.118	6.149	
16+980	2.123	6.156	
17+000	2.130	6.162	
17+020	2.130	6.169	
17+040	2.131	6.176	
17+060	2.132	6.183	
17+080	2.133	6.188	
17+100	2.133	6.190	
17+120	2.134	6.189	
17+140	2.134	6.184	
17+160	2.135	6.176	
17+180	2.135	6.167	
17+200	2.135	6.157	
17+220	2.135	6.148	
17+240	2.134	6.138	
17+250	2.133	6.133	

0.038%

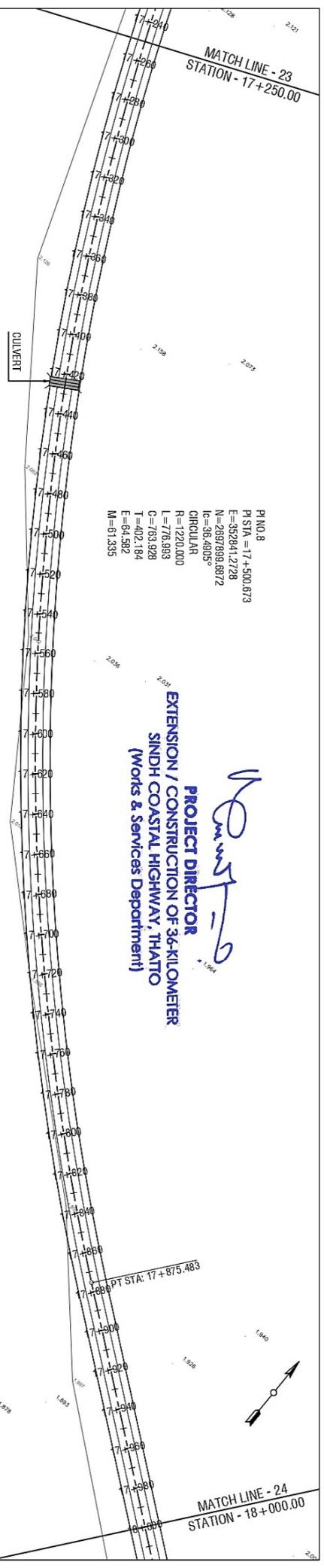
VPC STA: 17+060.000  
VPC ELE: 6.183

PVI STA = 17+110.000  
PVI ELE = 6.200  
K = 1222.388  
LVC = 100.000  
E = 0.010

VPT STA: 17+160.000  
VPT ELE: 6.176



MATCH LINE - 23  
STATION - 17+250.00



PINO 8  
 P1 STA = 17+500.873  
 E=35284.12728  
 N=2997899.8872  
 Ic=36.4805°  
 CIRCULAR  
 R=1220.000  
 L=776.993  
 C=763.928  
 T=402.184  
 E=64.382  
 M=61.335

**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
 SINDH COASTAL HIGHWAY, THATO  
 (Works & Services Department)

MATCH LINE - 24  
STATION - 18+000.00

**TENDER  
DRAWING**

STATION	EXISTING	PROPOSED
17+250	2.133	6.133
17+260	2.132	6.129
17+280	2.130	6.119
17+300	2.128	6.110
17+320	2.129	6.100
17+340	2.132	6.090
17+360	2.136	6.081
17+380	2.139	6.071
17+400	2.125	6.062
17+420	2.111	6.052
17+440	2.097	6.043
17+460	2.064	6.033
17+480	2.059	6.024
17+500	2.054	6.017
17+520	2.049	6.016
17+540	2.044	6.021
17+560	2.039	6.032
17+580	2.033	6.048
17+600	2.027	6.068
17+620	2.021	6.087
17+640	2.013	6.106
17+660	2.001	6.126
17+680	1.981	6.145
17+700	1.961	6.165
17+720	1.941	6.184
17+740	1.932	6.203
17+760	1.925	6.223
17+780	1.918	6.242
17+800	1.912	6.260
17+820	1.905	6.268
17+840	1.901	6.264
17+860	1.903	6.249
17+880	1.905	6.222
17+900	1.906	6.185
17+920	1.908	6.146
17+940	1.920	6.108
17+960	1.933	6.069
17+980	1.945	6.031
18+000	1.956	5.992

VPC STA: 17+480.000  
VPC ELE: 6.024

PVI STA=17+530.000  
PVI ELE=6.000  
K=692.539  
LVC=100.000  
E=0.018

VPT STA: 17+580.000  
VPT ELE: 6.048

VPC STA: 17+790.000  
VPC ELE: 6.252

PVI STA=17+840.000  
PVI ELE=6.300  
K=345.923  
LVC=100.000  
E=0.036

VPT STA: 17+890.000  
VPT ELE: 6.204

0.192%

0.097%

-0.048%

CULVERT

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 1+4000 To km 47+075 (36.00 km)

**DESIGN CONSULTANT:** Joint Venture (JV)

**TITLE:-** PLAN & PROFILE FROM STA. 16+500 TO STA. 17+250

EDNO.	DATE	DESCRIPTION

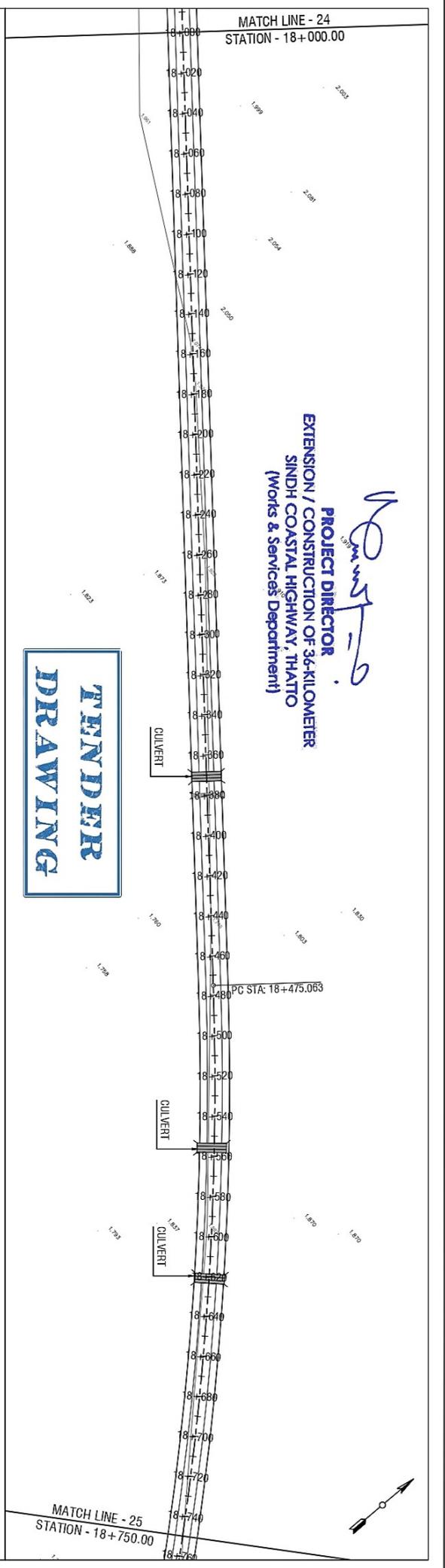
**DRAWN:-** ZOHAB  
**DESIGNED:-** SAMMA  
**CHECKED:-** RUX ALI ABRRO  
**DATE:** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-24  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3&6 KILOMETER**  
**SINDH COASTAL HIGHWAY, THAITO**  
 (Works & Services Department)

*Signature*

**FENDER**  
**DRAWING**



STATION	EXISTING	PROPOSED	
18+000	1.956	5.992	
18+020	1.968	5.954	
18+040	1.979	5.915	
18+060	1.994	5.878	
18+080	2.007	5.845	
18+100	2.019	5.818	
18+120	2.035	5.798	
18+140	2.058	5.783	
18+160	2.022	5.773	
18+180	1.925	5.764	
18+200	1.924	5.755	
18+220	1.924	5.745	
18+240	1.924	5.736	
18+260	1.923	5.727	
18+280	1.910	5.719	
18+300	1.890	5.714	
18+320	1.869	5.714	
18+340	1.849	5.718	
18+360	1.829	5.727	
18+380	1.809	5.740	
18+400	1.788	5.753	
18+420	1.768	5.767	
18+440	1.748	5.780	
18+460	1.763	5.793	
18+480	1.782	5.807	
18+500	1.801	5.820	
18+520	1.820	5.833	
18+540	1.838	5.847	
18+560	1.856	5.860	
18+580	1.874	5.872	
18+600	1.881	5.870	
18+620	1.878	5.855	
18+640	1.874	5.824	
18+660	1.870	5.780	
18+680	1.866	5.722	
18+700	1.862	5.663	
18+720	1.858	5.604	
18+740	1.855	5.544	
18+750	1.852	5.515	

VPC STA: 18+050.000  
 VPC ELE: 5.896

PVI STA=18+100.000  
 PVI ELEV=5.800  
 K=680.952  
 LVC=100.000  
 E=0.018

VPT STA: 18+150.000  
 VPT ELE: 5.777

-0.045%

VPC STA: 18+270.000  
 VPC ELE: 5.723

PVI STA=18+320.000  
 PVI ELEV=5.700  
 K=891.692  
 LVC=100.000  
 E=0.014

VPT STA: 18+370.000  
 VPT ELE: 5.733

0.067%

VPC STA: 18+570.000  
 VPC ELE: 5.867

PVI STA=18+620.000  
 PVI ELEV=5.900  
 K=275.510  
 LVC=100.000  
 E=0.045

VPT STA: 18+670.000  
 VPT ELE: 5.752

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 1+400 To Km 47+075 (36.00 Km)

**DESIGN CONSULTANT:** **EGIT** Joint Venture (JV)

**TITLE:-** PLAN & PROFILE FROM STA. 18+000 TO STA. 18+750

EDNO.	DATE	DESCRIPTION

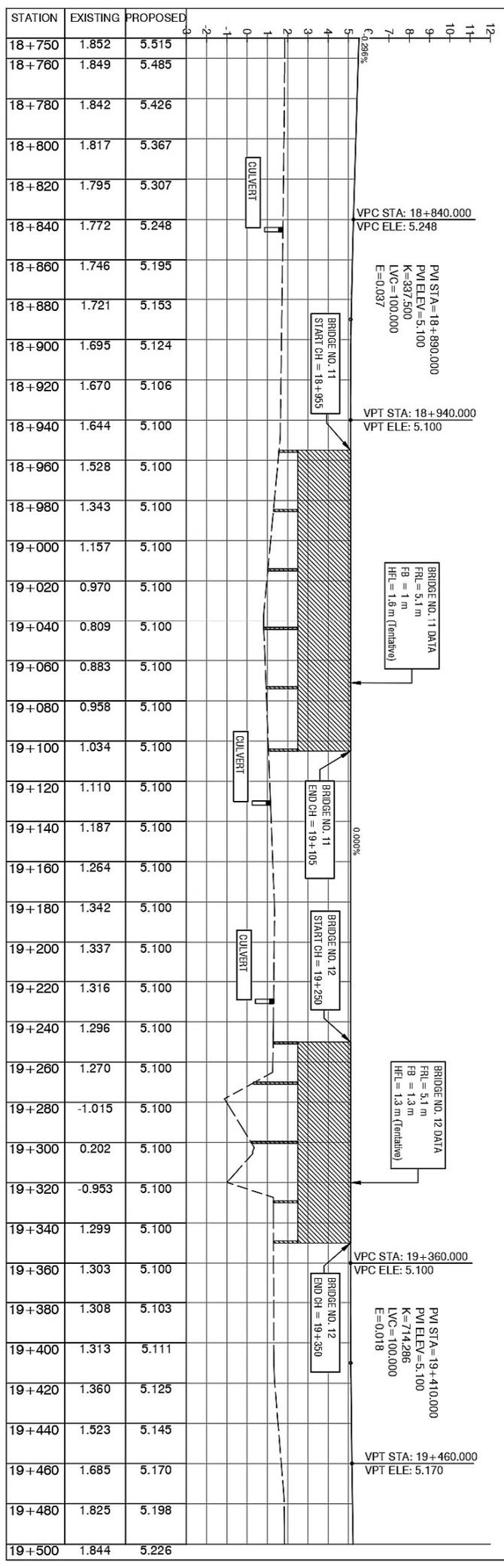
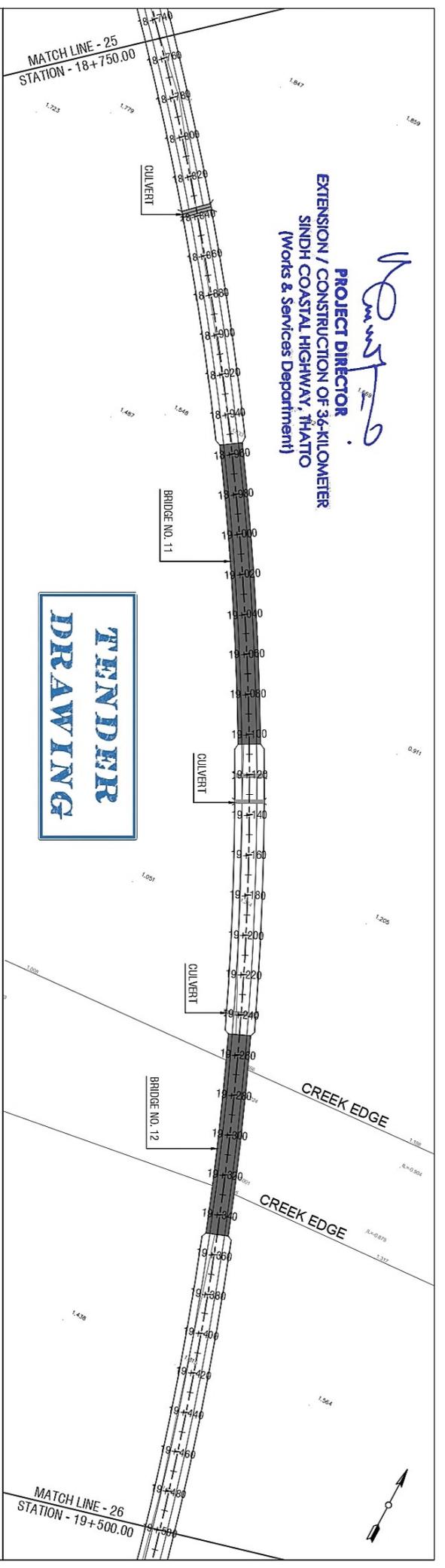
**DRAWN:-** ZOHAB  
**DESIGNED:-** SAMMA  
**CHECKED:-** RUX ALI ABRRO  
**DATE:** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-25  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATO**  
**(Works & Services Department)**

*Handwritten signature*

**TENDER**  
**DRAWING**



STATION	EXISTING	PROPOSED
18+750	1.852	5.515
18+760	1.849	5.485
18+780	1.842	5.426
18+800	1.817	5.367
18+820	1.795	5.307
18+840	1.772	5.248
18+860	1.746	5.195
18+880	1.721	5.153
18+900	1.695	5.124
18+920	1.670	5.106
18+940	1.644	5.100
18+960	1.528	5.100
18+980	1.343	5.100
19+000	1.157	5.100
19+020	0.970	5.100
19+040	0.809	5.100
19+060	0.883	5.100
19+080	0.958	5.100
19+100	1.034	5.100
19+120	1.110	5.100
19+140	1.187	5.100
19+160	1.264	5.100
19+180	1.342	5.100
19+200	1.337	5.100
19+220	1.316	5.100
19+240	1.296	5.100
19+260	1.270	5.100
19+280	-1.015	5.100
19+300	0.202	5.100
19+320	-0.953	5.100
19+340	1.299	5.100
19+360	1.303	5.100
19+380	1.308	5.103
19+400	1.313	5.111
19+420	1.360	5.125
19+440	1.523	5.145
19+460	1.685	5.170
19+480	1.825	5.198
19+500	1.844	5.226

**CLIENT:** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 1 (+400) To Km 4 (+05) (6600 Km)

**DESIGN CONSULTANT:**

**TITLE:** PLAN & PROFILE FROM STA. 18+750 TO STA. 19+500

ED. NO.	DATE	DESCRIPTION

DRAWN:	DESIGNED:	CHECKED:	DATE:
ZOHAB	SAMMA	RUX ALI ABRRO	OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-26

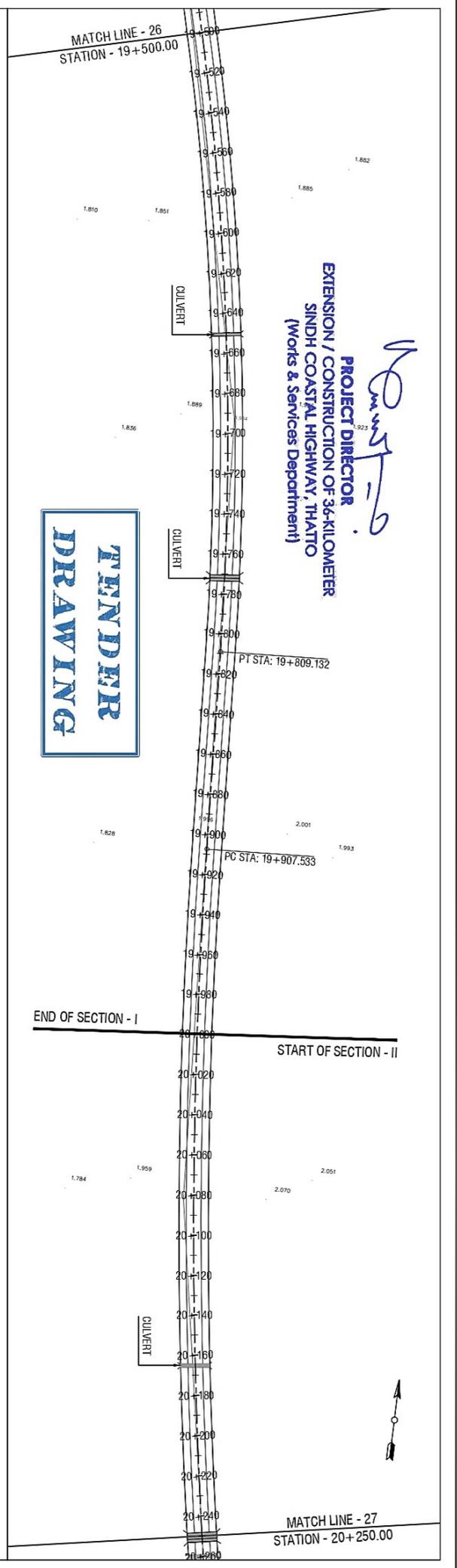
**Scale:** H = 1:2000 V = 1:200

**Edition:** 0

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

*Handwritten signature*

**TENDER**  
**DRAWING**



STATION	EXISTING	PROPOSED
19+500	1.844	5.226
19+520	1.853	5.254
19+540	1.862	5.282
19+560	1.872	5.310
19+580	1.881	5.338
19+600	1.890	5.366
19+620	1.900	5.394
19+640	1.909	5.422
19+660	1.918	5.450
19+680	1.925	5.478
19+700	1.932	5.506
19+720	1.941	5.534
19+740	1.952	5.562
19+760	1.963	5.590
19+780	1.971	5.618
19+800	1.979	5.646
19+820	1.988	5.674
19+840	1.996	5.702
19+860	2.005	5.730
19+880	2.014	5.758
19+900	2.022	5.784
19+920	2.031	5.810
19+940	2.039	5.836
19+960	2.048	5.860
19+980	2.056	5.884
20+000	2.064	5.908
20+020	2.073	5.932
20+040	2.081	5.956
20+060	2.089	5.980
20+080	2.096	6.004
20+100	2.100	6.028
20+120	2.104	6.052
20+140	2.107	6.076
20+160	2.110	6.100
20+180	2.113	6.124
20+200	2.116	6.148
20+220	2.119	6.172
20+240	2.122	6.196
20+250	2.123	6.208

VPC STA: 19+860.000  
VPC ELE: 5.730

PVI STA=19+910.000  
PVI ELE.V=5.800  
K=5000.000  
LVC=-100.000  
E=-0.002

VPT STA: 19+960.000  
VPT ELE: 5.860

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 14+900 To Km 47+075 (36.00 Km)

DESIGN CONSULTANT: **AVI** Joint Venture (JV)

TITLE:- PLAN & PROFILE FROM STA. 19+500 TO STA. 20+000

EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: SAMMA  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER 2025

DRAWING NO. HWY-PANEL-PH-27  
Scale: H=1:2000 V=1:200  
Edition: 0



MATCH LINE - 27  
STATION - 20+250.00

PI NO. 10  
PI STA = 20+515.324  
E = 354293.0915  
N = 2089417.7847  
hc = 24.5194  
CIRCULAR  
R = 2790.000  
L = 1198.884  
C = 1187.727  
T = 807.792  
E = 85.435  
M = 53.936

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATO**  
**(Works & Services Department)**

MATCH LINE - 28  
STATION - 21+000.00

**TENDER**  
**DRAWING**

STATION	EXISTING	PROPOSED
20+250	2.123	6.208
20+260	2.124	6.220
20+280	2.127	6.244
20+300	2.130	6.268
20+320	2.130	6.292
20+340	2.128	6.316
20+360	2.125	6.340
20+380	2.123	6.360
20+400	2.121	6.373
20+420	2.119	6.378
20+440	2.117	6.375
20+460	2.115	6.365
20+480	2.113	6.351
20+500	2.111	6.338
20+520	2.109	6.324
20+540	2.107	6.310
20+560	2.112	6.296
20+580	2.119	6.282
20+600	2.128	6.268
20+620	2.137	6.254
20+640	2.146	6.240
20+660	2.155	6.226
20+680	2.164	6.212
20+700	2.172	6.199
20+720	2.181	6.185
20+740	2.189	6.171
20+760	2.198	6.157
20+780	2.206	6.143
20+800	2.214	6.129
20+820	2.218	6.115
20+840	2.221	6.101
20+860	2.221	6.088
20+880	2.222	6.074
20+900	2.224	6.060
20+920	2.227	6.046
20+940	2.231	6.032
20+960	2.236	6.018
20+980	2.242	6.004
21+000	2.249	5.990

VPC STA: 20+360.000  
VPC ELE: 6.340

PVI STA: 20+410.000  
PVI ELE: 6.400  
K = 527.859  
LVC = 100.000  
E = 0.024

VPT STA: 20+460.000  
VPT ELE: 6.365

-0.069%

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From km 11+000 To km 47+075 (36.00 Km)

DESIGN CONSULTANT  
**JVC**  
Joint Venture (JV)

TITLE:-  
PLAN & PROFILE  
FROM STA. 20+250 TO STA. 21+000

EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB	DESIGNED: SAMMA	CHECKED: RUX ALI ABRRO	DATE: OCTOBER 2025
DRAWING NO. HMY-PANEL-PP-28		Scale: H = 1:2000 V = 1:200	Edition: 0

MATCH LINE - 28  
STATION - 21+000.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*[Signature]*

**TENDER  
DRAWING**

MATCH LINE - 29  
STATION - 21+750.00

STATION	EXISTING	PROPOSED
21+000	2.249	5.990
21+020	2.250	5.976
21+040	2.247	5.962
21+060	2.245	5.949
21+080	2.243	5.935
21+100	2.242	5.924
21+120	2.241	5.919
21+140	2.241	5.919
21+160	2.239	5.926
21+180	2.237	5.938
21+200	2.234	5.953
21+220	2.232	5.968
21+240	2.230	5.983
21+260	2.227	5.998
21+280	2.225	6.013
21+300	2.223	6.028
21+320	2.220	6.043
21+340	2.218	6.058
21+360	2.216	6.074
21+380	2.213	6.089
21+400	2.211	6.104
21+420	2.210	6.119
21+440	2.209	6.134
21+460	2.213	6.149
21+480	2.219	6.164
21+500	2.225	6.179
21+520	2.231	6.194
21+540	2.237	6.209
21+560	2.243	6.225
21+580	2.249	6.240
21+600	2.255	6.255
21+620	2.261	6.270
21+640	2.267	6.283
21+660	2.273	6.294
21+680	2.279	6.303
21+700	2.285	6.311
21+720	2.291	6.317
21+740	2.298	6.322
21+750	2.301	6.325

VPC STA: 21+080.000  
VPC ELE: 5.935

PT STA: 21+104.417  
PVI STA=21+130.000  
PVI ELE=5.900  
K=690.054  
LVC=100.000  
E=0.018

VPT STA: 21+180.000  
VPT ELE: 5.938

0.075%

VPC STA: 21+610.000  
VPC ELE: 6.262

PVI STA=21+660.000  
PVI ELE=6.300  
K=2096.703  
LVC=100.000  
E=0.006

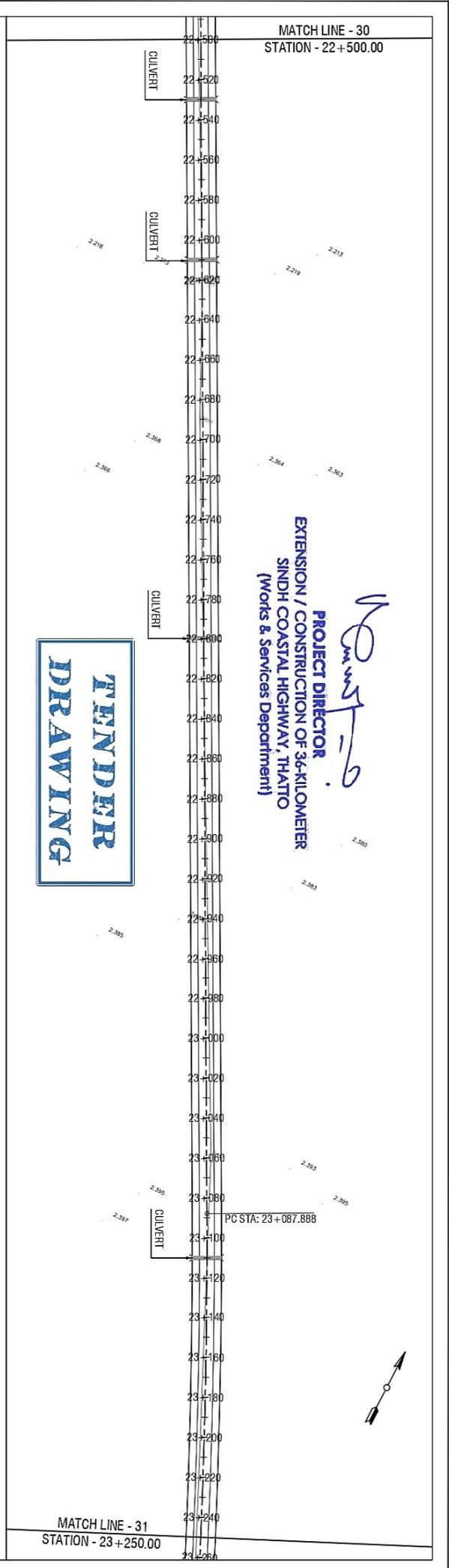
VPT STA: 21+710.000  
VPT ELE: 6.314

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH  
PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)  
DESIGN CONSULTANT: **AVI** Labor Venture (Pvt) Ltd.  
TITLE: PLAN & PROFILE FROM STA. 21+000 TO STA. 21+750

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB	SAMA	RUX ALI ABRRO	OCTOBER 2025
			DRAWING NO. HWY-PANEL-Pp-29			
			Scale: H=1:2000 V=1:200			
			Edition: 0			







STATION	EXISTING	PROPOSED
22+500	2.192	6.482
22+520	2.193	6.471
22+540	2.195	6.457
22+560	2.196	6.443
22+580	2.198	6.429
22+600	2.199	6.414
22+620	2.201	6.400
22+640	2.248	6.386
22+660	2.298	6.371
22+680	2.347	6.357
22+700	2.372	6.343
22+720	2.373	6.329
22+740	2.374	6.321
22+760	2.375	6.320
22+780	2.376	6.324
22+800	2.377	6.335
22+820	2.378	6.351
22+840	2.379	6.369
22+860	2.380	6.386
22+880	2.381	6.403
22+900	2.382	6.420
22+920	2.384	6.437
22+940	2.385	6.454
22+960	2.386	6.471
22+980	2.387	6.489
23+000	2.388	6.506
23+020	2.389	6.523
23+040	2.390	6.540
23+060	2.391	6.557
23+080	2.394	6.568
23+100	2.396	6.565
23+120	2.399	6.549
23+140	2.402	6.520
23+160	2.404	6.478
23+180	2.407	6.430
23+200	2.409	6.381
23+220	2.412	6.332
23+240	2.415	6.284
23+250	2.416	6.259

**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 34-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Signature*



<p>CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH</p>	<p>PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 To km 47+075 (36.00 km)</p>	<p>DESIGN CONSULTANT </p>	<p>TITLE:- PLAN &amp; PROFILE FROM STA. 22+500 TO STA. 23+250</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>EDNO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	EDNO.	DATE	DESCRIPTION										<p>DRAWN:- ZOHAB DESIGNED:- SAMMA CHECKED:- RUX ALI ABRRO DATE:- OCTOBER, 2025</p>	<p>DRAWING NO. HWY-PANEL-Pp-31 Scale:- H=1:2000 V=1:200 Edition, 0</p>	
EDNO.	DATE	DESCRIPTION													

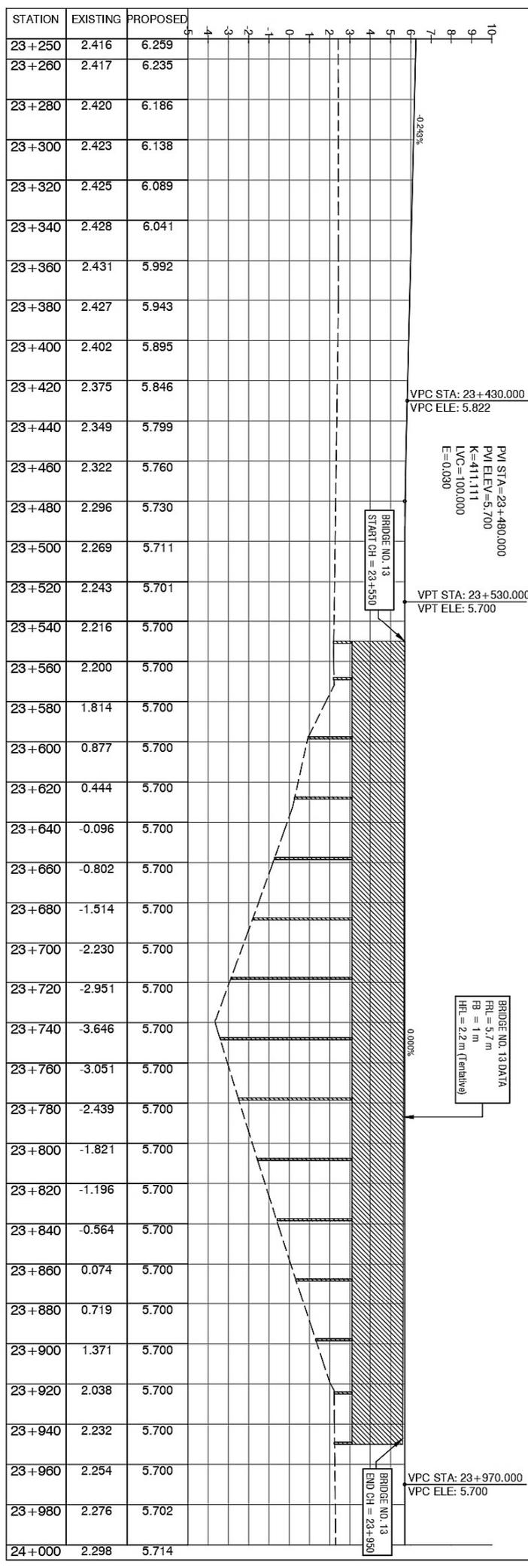
MATCH LINE - 31  
STATION - 23+250.00

TENDER DRAWING

PROJECT DIRECTOR  
CONSTRUCTION / CONSTRUCTION OF 3.6-KILOMETER  
SINDH COASTAL HIGHWAY, THATO  
(Works & Services Department)

D. Mustafa

MATCH LINE - 32  
STATION - 24+000.00



CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

DESIGN CONSULTANT:

TITLE: PLAN & PROFILE FROM STA. 23+250 TO STA. 24+000

EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: SAMMA  
CHECKED: RUX ALI ABRU  
DATE: OCTOBER 2025

DRAWING NO. HWY-PANEL-PP-32  
Scale: H = 1:2000 V = 1:200  
Edition: 0



**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 to km 47+075 (36.00 km)

**DESIGN CONSULTANT**  

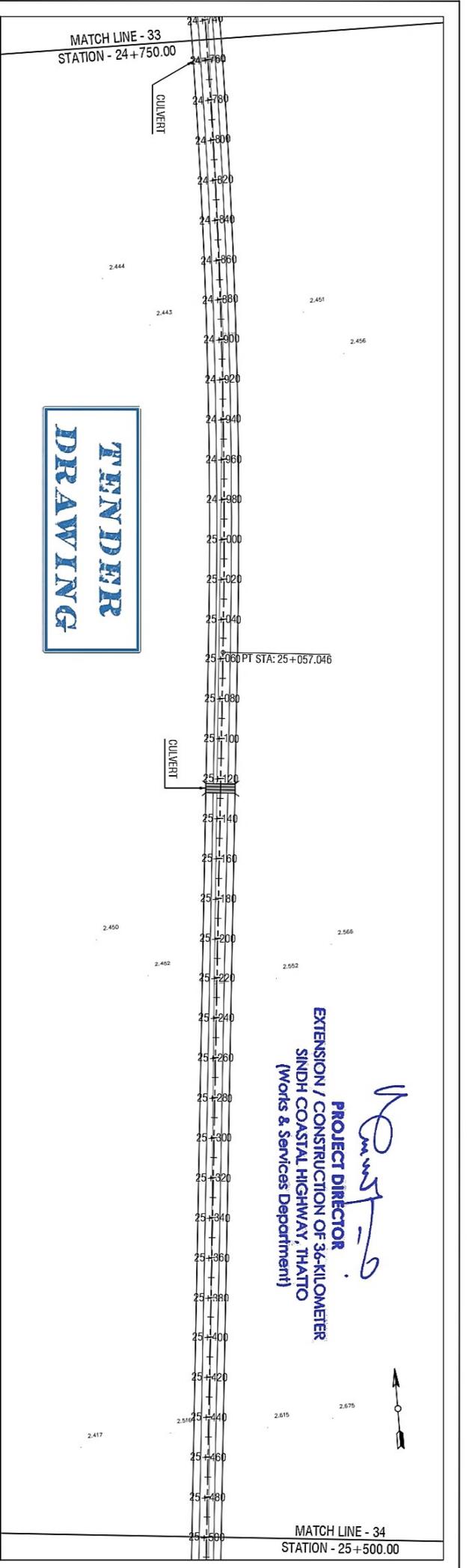

**TITLE:-** PLAN & PROFILE FROM STA. 24+000 TO STA. 24+750

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** SAMMA  
**CHECKED:-** RUX ALI ABRU  
**DATE:-** OCTOBER, 2025

**DRAWING NO.** HWY-PANEL-PP-34  
**Scale:-** H=1:2000 V=1:200  
**Edition,** 0

STATION	EXISTING	PROPOSED
24+750	2.513	6.472
24+760	2.508	6.476
24+780	2.498	6.484
24+800	2.488	6.490
24+820	2.478	6.495
24+840	2.468	6.498
24+860	2.458	6.500
24+880	2.448	6.500
24+900	2.439	6.500
24+920	2.445	6.500
24+940	2.451	6.500
24+960	2.456	6.500
24+980	2.462	6.500
25+000	2.468	6.500
25+020	2.473	6.500
25+040	2.479	6.500
25+060	2.484	6.500
25+080	2.490	6.500
25+100	2.495	6.500
25+120	2.500	6.500
25+140	2.506	6.503
25+160	2.511	6.509
25+180	2.516	6.517
25+200	2.522	6.529
25+220	2.527	6.543
25+240	2.532	6.557
25+260	2.534	6.571
25+280	2.537	6.586
25+300	2.539	6.600
25+320	2.542	6.614
25+340	2.544	6.629
25+360	2.547	6.643
25+380	2.549	6.657
25+400	2.552	6.671
25+420	2.554	6.686
25+440	2.556	6.700
25+460	2.559	6.714
25+480	2.561	6.729
25+500	2.564	6.743



MATCH LINE - 34  
STATION - 25+500.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Handwritten signature*

**TENDER  
DRAWING**

MATCH LINE - 35  
STATION - 26+250.00

STATION	EXISTING	PROPOSED	
25+500	2.564	6.743	
25+520	2.566	6.757	
25+540	2.569	6.770	
25+560	2.571	6.775	
25+580	2.574	6.771	
25+600	2.576	6.757	
25+620	2.579	6.734	CULVERT
25+640	2.581	6.702	
25+660	2.583	6.669	
25+680	2.581	6.637	
25+700	2.547	6.604	
25+720	2.512	6.571	
25+740	2.476	6.539	
25+760	2.441	6.506	
25+780	2.405	6.473	CULVERT
25+800	2.370	6.441	
25+820	2.334	6.408	
25+840	2.299	6.376	
25+860	2.263	6.343	
25+880	2.228	6.310	
25+900	2.192	6.278	
25+920	2.166	6.245	
25+940	2.155	6.212	
25+960	2.144	6.180	
25+980	2.133	6.147	
26+000	2.122	6.114	
26+020	2.111	6.082	
26+040	2.100	6.054	
26+060	2.089	6.038	
26+080	2.078	6.032	
26+100	2.067	6.037	
26+120	2.056	6.053	
26+140	2.039	6.074	
26+160	1.735	6.095	
26+180	1.406	6.116	
26+200	1.078	6.137	
26+220	0.749	6.157	
26+240	0.421	6.174	
26+250	0.257	6.181	

VPC STA: 25+530.000  
VPC ELE: 6.764

PVI STA=25+580.000  
PVI ELEV=6.800  
K=426.087  
LVC=100.000  
E=0.029

VPT STA: 25+630.000  
VPT ELE: 6.718

0.163%

0.163%

PVI STA=26+070.000  
PVI ELEV=6.000  
K=372.400  
LVC=100.000  
E=0.034

VPC STA: 26+020.000  
VPC ELE: 6.082

VPT STA: 26+120.000  
VPT ELE: 6.053

VPC STA: 26+210.000  
VPC ELE: 6.147

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

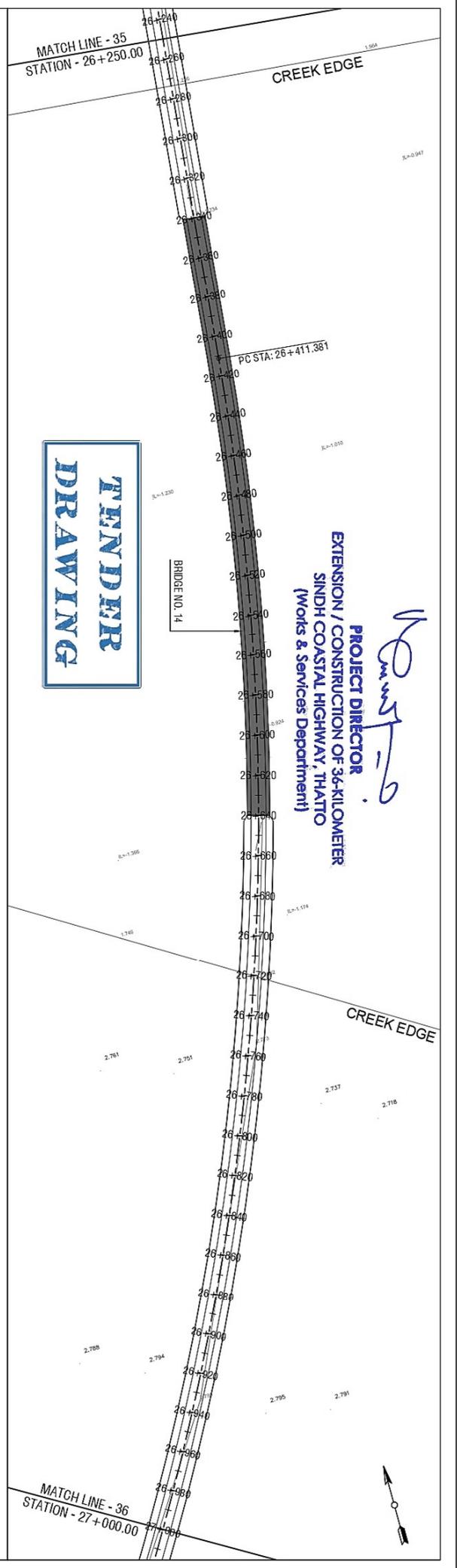
DESIGN CONSULTANT: **ATA** Joint Venture (PVT)

TITLE:- PLAN & PROFILE FROM STA. 25+500 TO STA. 26+250

EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: SAMMA  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER 2025

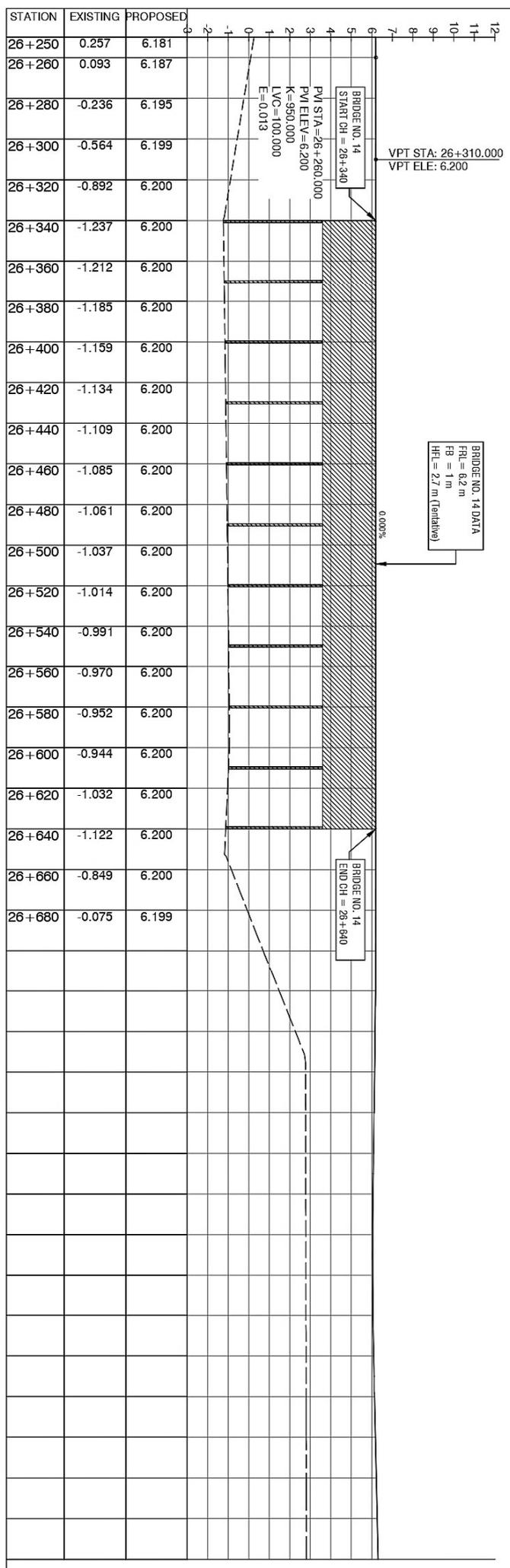
DRAWING NO. HWY-PANEL-PH-35  
Scale:- H=1:2000 V=1:200  
Edition: 0



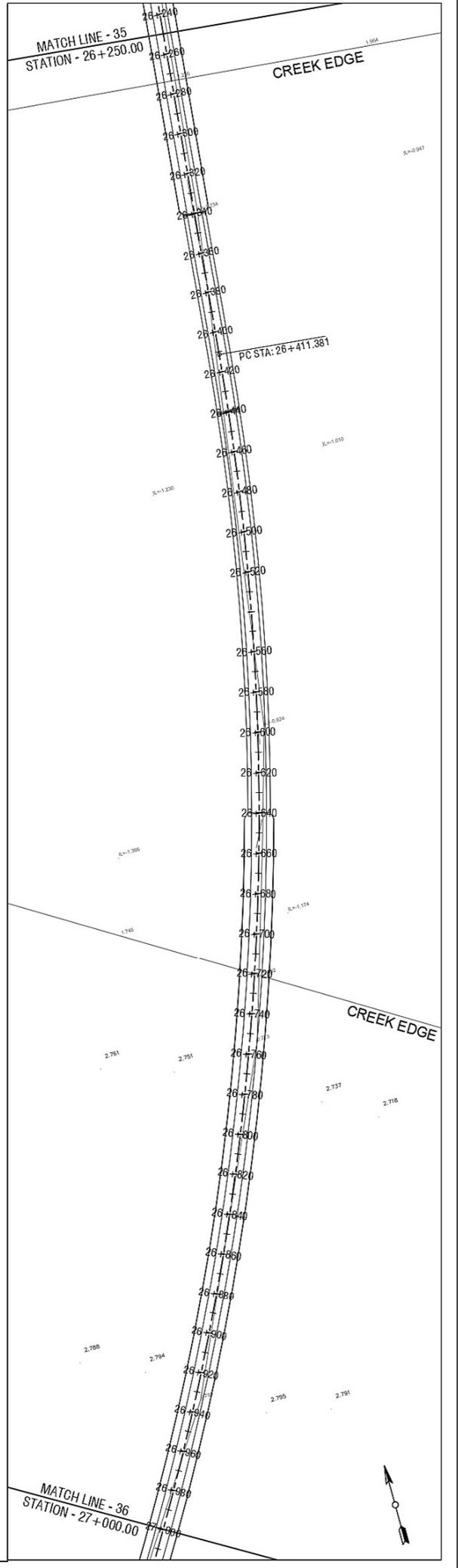
**TENDER  
DRAWING**

**PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 3.6 KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)**

*Handwritten signature*



<p>CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH</p>	<p>PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 To km 47+075 (3600 km)</p>	<p>DESIGN CONSULTANT </p>	<p>TITLE:- PLAN &amp; PROFILE FROM STA. 25+250 TO STA. 28+680</p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>EDNO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	EDNO.	DATE	DESCRIPTION										<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DRAWN:</th> <th>DESIGNED:</th> <th>CHECKED:</th> <th>DATE:</th> </tr> </thead> <tbody> <tr> <td>ZOHAB</td> <td> </td> <td>RUX ALI ABRRO</td> <td>OCTOBER, 2025</td> </tr> </tbody> </table>	DRAWN:	DESIGNED:	CHECKED:	DATE:	ZOHAB		RUX ALI ABRRO	OCTOBER, 2025	<p>DRAWING NO. HMW-PANEL-PP-36</p> <p>Scale:- H = 1:2000 V = 1:200</p> <p>Edition. 0</p>
EDNO.	DATE	DESCRIPTION																				
DRAWN:	DESIGNED:	CHECKED:	DATE:																			
ZOHAB		RUX ALI ABRRO	OCTOBER, 2025																			



**TENDER  
DRAWING**

**PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)**

*Handwritten Signature*

STATION	EXISTING	PROPOSED	6	5	4	3	2	1	0	-1	-2
26+680	-0.075	6.199									
26+700	0.703	6.194									
26+720	1.485	6.182									
26+740	2.270	6.165									
26+760	2.772	6.142									
26+780	2.776	6.114									
26+800	2.779	6.086									
26+820	2.782	6.059									
26+840	2.785	6.045									
26+860	2.788	6.046									
26+880	2.791	6.061									
26+900	2.794	6.091									
26+920	2.796	6.133									
26+940	2.800	6.178									
26+960	2.805	6.222									
26+980	2.809	6.267									
27+000	2.813	6.311									

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

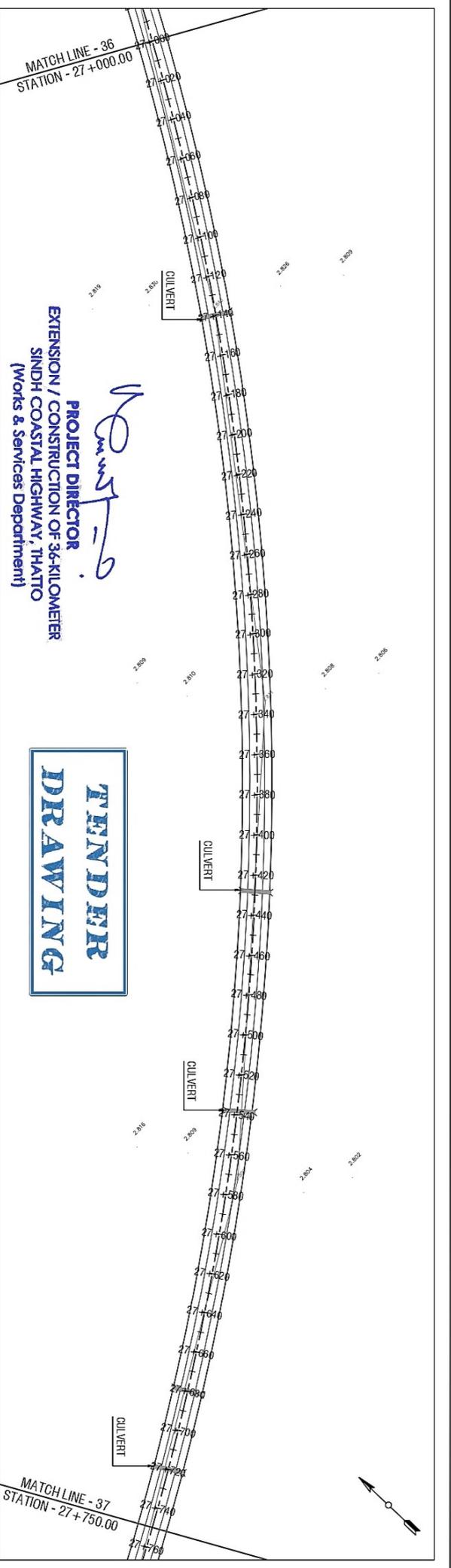
**DESIGN CONSULTANT:** **EGIT**

**TITLE:-** PLAN & PROFILE FROM STA. 25+880 TO STA. 27+000

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-**  
**CHECKED:-** RUX ALI ABRU  
**DATE:-** OCTOBER, 2025

**DRAWING NO.** HWY-PANEL-PP-36  
**Scale:-** H=1:2000 V=1:200  
**Edition.** 0



**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
 SINDH COASTAL HIGHWAY, THATTO  
 (Works & Services Department)

**TENDER  
 DRAWING**

STATION	EXISTING	PROPOSED
27+000	2.813	6.311
27+020	2.818	6.356
27+040	2.822	6.400
27+060	2.827	6.444
27+080	2.831	6.489
27+100	2.836	6.533
27+120	2.841	6.578
27+140	2.846	6.622
27+160	2.842	6.667
27+180	2.838	6.711
27+200	2.835	6.756
27+220	2.831	6.800
27+240	2.828	6.844
27+260	2.824	6.889
27+280	2.821	6.929
27+300	2.817	6.960
27+320	2.813	6.982
27+340	2.811	6.996
27+360	2.811	7.000
27+380	2.809	7.000
27+400	2.808	7.000
27+420	2.807	7.000
27+440	2.806	7.000
27+460	2.805	7.000
27+480	2.804	7.000
27+500	2.803	7.000
27+520	2.803	7.000
27+540	2.802	7.000
27+560	2.802	7.000
27+580	2.805	7.000
27+600	2.814	7.000
27+620	2.823	7.000
27+640	2.832	7.000
27+660	2.842	7.000
27+680	2.852	7.000
27+700	2.861	7.000
27+720	2.871	7.000
27+740	2.880	7.000
27+750	2.885	7.000

VPC STA: 27+260.000  
 VPC ELE: 6.889

PI STA=27+310.000  
 PI ELEV=7.000  
 K=430.000  
 LVC=100.000  
 E=0.028

VPT STA: 27+360.000  
 VPT ELE: 7.000

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 1+000 to Km 4+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE: PLAN & PROFILE FROM STA. 27+000 TO STA. 27+750	EDNO.	DATE	DESCRIPTION	DRAWN:	ZOHAB	Scale:- H=1:2000 V=1:200 Edition, 0
				DESIGNED:	DATE:		CHECKED:	DATE:	

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATO**  
**(Works & Services Department)**

*Mustafa*

MATCH LINE - 37  
 STATION - 27+750.00

STATION - 28+500.00  
 MATCH LINE - 38

**FINAL**  
**DRAWING**

STATION	EXISTING	PROPOSED
27+750	2.885	7.000
27+760	2.890	7.000
27+780	2.899	7.000
27+800	2.909	7.000
27+820	2.916	7.000
27+840	2.914	7.000
27+860	2.909	7.000
27+880	2.905	7.000
27+900	2.901	7.000
27+920	2.897	7.000
27+940	2.894	7.000
27+960	2.891	7.000
27+980	2.888	7.000
28+000	2.885	7.000
28+020	2.883	7.000
28+040	2.881	7.001
28+060	2.879	7.003
28+080	2.879	7.005
28+100	2.885	7.008
28+120	2.892	7.012
28+140	2.900	7.016
28+160	2.907	7.020
28+180	2.915	7.024
28+200	2.923	7.029
28+220	2.931	7.033
28+240	2.939	7.037
28+260	2.947	7.041
28+280	2.955	7.045
28+300	2.963	7.049
28+320	2.970	7.053
28+340	2.969	7.057
28+360	2.967	7.061
28+380	2.965	7.065
28+400	2.963	7.069
28+420	2.961	7.073
28+440	2.959	7.078
28+460	2.957	7.082
28+480	2.955	7.086
28+500	2.953	7.090

VPC STA: 28+010.000  
 VPC ELE: 7.000

PM STA=28+060.000  
 PM ELE=7.000  
 K=4900.000  
 LVC=100.000  
 E=0.003

VPT STA: 28+110.000  
 VPT ELE: 7.010

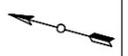
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VPC STA: 28+500.000  
 VPC ELE: 7.090

CULVERT

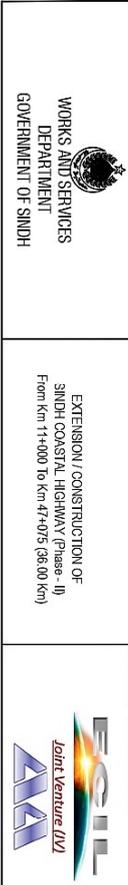
CULVERT

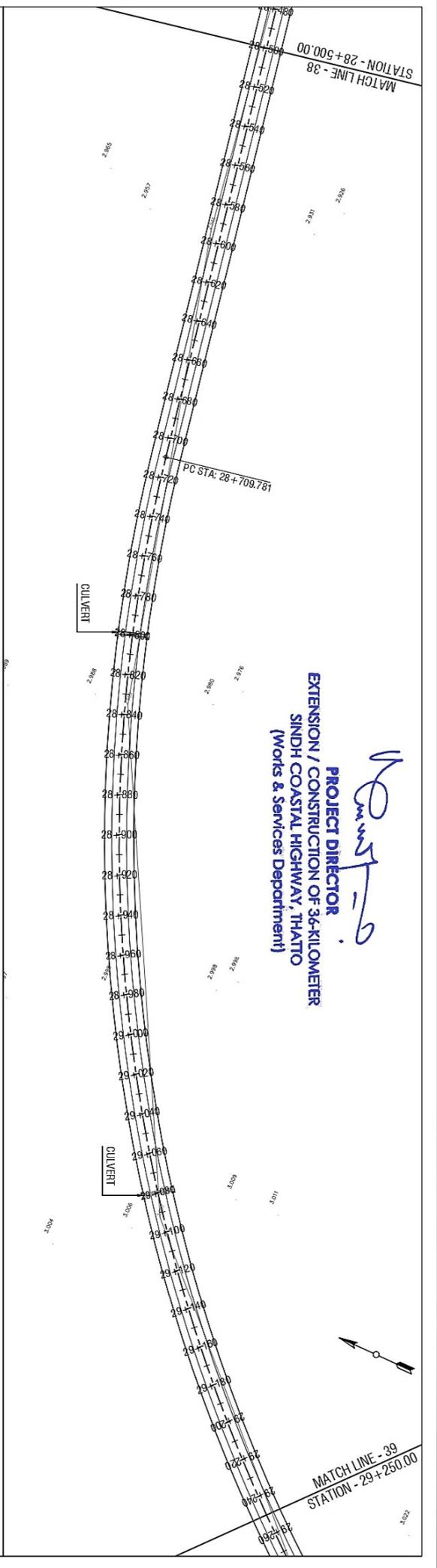
PT STA: 28+145.095



CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH  
 PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)  
 DESIGN CONSULTANT: **AVI** Joint Venture (PVT)  
 TITLE: PLAN & PROFILE FROM STA. 27+750 TO STA. 28+500

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:	DRAWING NO.
			ZOHAB		RUX ALI ABRRO	OCTOBER 2025	HWY-PANEL-PP-38
							Scale: H=1:2000 V=1:200
							Edition: 0





**TENDER  
DRAWING**

STATION	EXISTING	PROPOSED
28+500	2.953	7.090
28+520	2.951	7.094
28+540	2.949	7.097
28+560	2.947	7.100
28+580	2.945	7.103
28+600	2.945	7.105
28+620	2.949	7.108
28+640	2.953	7.110
28+660	2.957	7.112
28+680	2.960	7.114
28+700	2.964	7.116
28+720	2.967	7.119
28+740	2.971	7.121
28+760	2.975	7.123
28+780	2.978	7.125
28+800	2.982	7.127
28+820	2.985	7.130
28+840	2.988	7.132
28+860	2.990	7.134
28+880	2.991	7.136
28+900	2.993	7.138
28+920	2.994	7.141
28+940	2.995	7.143
28+960	2.997	7.145
28+980	2.998	7.147
29+000	3.000	7.149
29+020	3.001	7.152
29+040	3.003	7.154
29+060	3.005	7.156
29+080	3.006	7.158
29+100	3.007	7.160
29+120	3.008	7.163
29+140	3.009	7.165
29+160	3.010	7.167
29+180	3.011	7.169
29+200	3.011	7.171
29+220	3.012	7.174
29+240	3.013	7.176
29+250	3.013	7.177

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

**DESIGN CONSULTANT:** **ATA** Joint Venture (JV)

**TITLE:-** PLAN & PROFILE FROM STA. 28+500 TO STA. 29+250

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** ZOHAB  
**CHECKED:-** RUX ALI ABRU  
**DATE:-** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-39  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 1+4000 to Km 4+7475 (36.00 Km)



DESIGN CONSULTANT

TITLE:-  
PLAN & PROFILE  
FROM STA. 29+250 TO STA. 30+000

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB		RUX ALI ABRRO	OCTOBER 2025

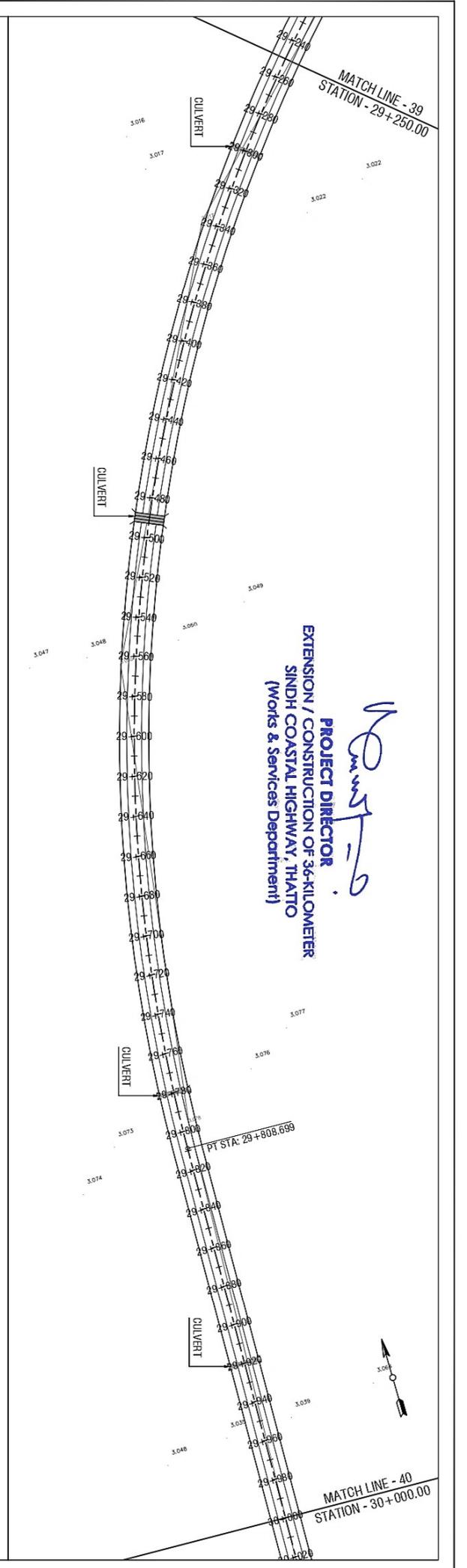
STATION	EXISTING	PROPOSED
29+250	3.013	7.177
29+260	3.014	7.178
29+280	3.015	7.180
29+300	3.016	7.182
29+320	3.017	7.185
29+340	3.018	7.187
29+360	3.021	7.189
29+380	3.023	7.191
29+400	3.026	7.193
29+420	3.029	7.196
29+440	3.032	7.198
29+460	3.035	7.200
29+480	3.038	7.202
29+500	3.041	7.204
29+520	3.044	7.206
29+540	3.047	7.208
29+560	3.050	7.210
29+580	3.052	7.212
29+600	3.054	7.214
29+620	3.057	7.216
29+640	3.059	7.218
29+660	3.061	7.220
29+680	3.064	7.222
29+700	3.066	7.224
29+720	3.068	7.226
29+740	3.071	7.228
29+760	3.073	7.230
29+780	3.076	7.232
29+800	3.077	7.234
29+820	3.072	7.236
29+840	3.065	7.238
29+860	3.059	7.240
29+880	3.052	7.242
29+900	3.045	7.244
29+920	3.039	7.246
29+940	3.032	7.248
29+960	3.025	7.250
29+980	3.019	7.251
30+000	3.012	7.253

VPC STA: 29+410.000  
VPC ELE: 7.195

PVI STA: 29+460.000  
PVI ELE: 7.200  
K = 91910.000  
LVC = 100.000  
E = 0.000

VPT STA: 29+510.000  
VPT ELE: 7.205

TENDER  
DRAWING



PROJECT DIRECTOR  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

MATCH LINE - 40  
STATION - 30+000.00

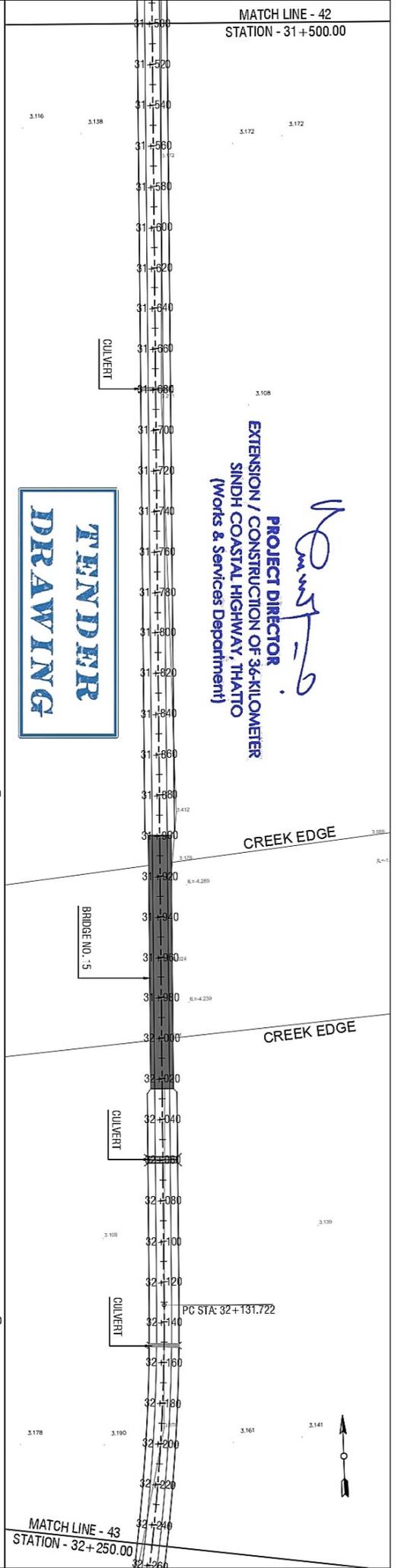




MATCH LINE - 42  
STATION - 31+500.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

**TENDER  
DRAWING**



STATION	EXISTING	PROPOSED
31+500	3.139	6.947
31+520	3.144	6.944
31+540	3.150	6.941
31+560	3.160	6.939
31+580	3.172	6.936
31+600	3.179	6.933
31+620	3.186	6.930
31+640	3.192	6.927
31+660	3.199	6.924
31+680	3.206	6.921
31+700	3.223	6.919
31+720	3.242	6.916
31+740	3.261	6.913
31+760	3.280	6.910
31+780	3.299	6.907
31+800	3.318	6.905
31+820	3.337	6.903
31+840	3.356	6.901
31+860	3.376	6.900
31+880	3.383	6.900
31+900	3.299	6.900
31+920	-0.256	6.900
31+940	-4.058	6.900
31+960	-4.250	6.900
31+980	-0.892	6.900
32+000	3.020	6.900
32+020	3.191	6.900
32+040	3.172	6.900
32+060	3.153	6.902
32+080	3.133	6.907
32+100	3.125	6.915
32+120	3.180	6.927
32+140	3.235	6.942
32+160	3.290	6.958
32+180	3.344	6.975
32+200	3.377	6.992
32+220	3.378	7.008
32+240	3.379	7.025
32+250	3.379	7.033

PVI STA=31+830.000  
PVI ELEV=6.900  
K=7000.000  
LVC=100.000  
E=0.002

VPC STA: 31+780.000  
VPC ELE: 6.907

VPT STA: 31+880.000  
VPT ELE: 6.900

BRIDGE NO. 15 DATA  
FRL = 6.9 m  
FB = 1 m  
HFL = 3.4 m (tentative)

VPC STA: 32+040.000  
VPC ELE: 6.900

PVI STA=32+090.000  
PVI ELEV=6.900  
K=1200.000  
LVC=100.000  
E=0.010

VPT STA: 32+140.000  
VPT ELE: 6.942

MATCH LINE - 43  
STATION - 32+250.00

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 to km 47+075 (36300 km)

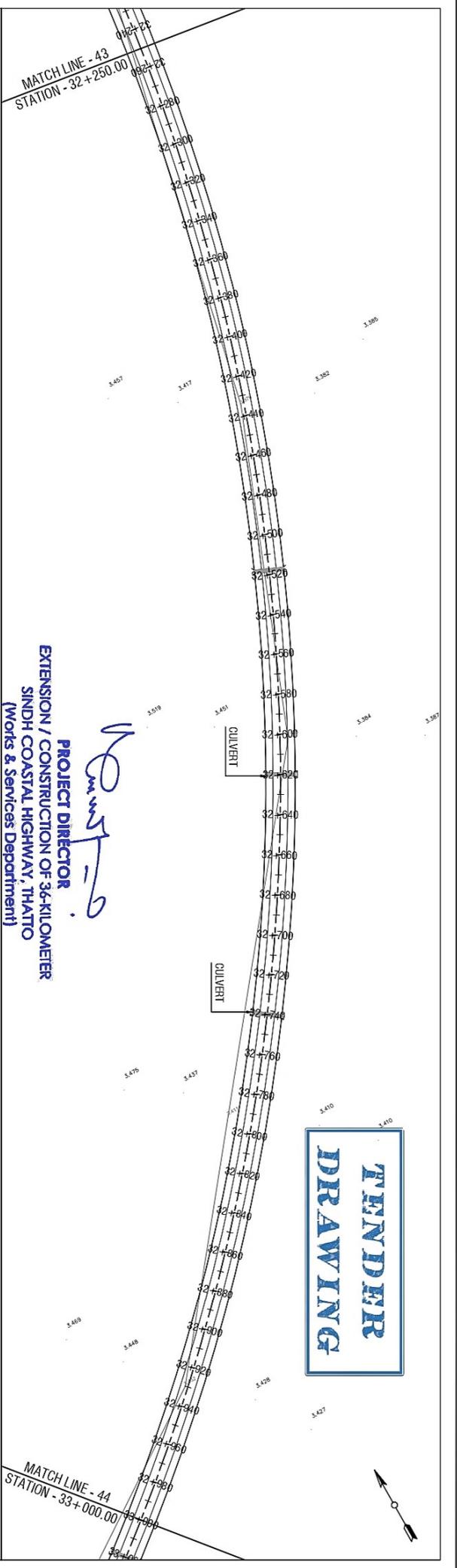
DESIGN CONSULTANT: **ESIL** Joint Venture (J/J) **AA**

TITLE: PLAN & PROFILE FROM STA. 31+500 TO STA. 32+250

EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: ZOHAB  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER 2025

DRAWING NO. HWY-PANEL-PP-43  
Scale: H=1:2000 V=1:200  
Edition: 0



**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

**TENDER**  
**DRAWING**

STATION	EXISTING	PROPOSED
32+250	3.379	7.033
32+260	3.379	7.042
32+280	3.379	7.058
32+300	3.379	7.077
32+320	3.379	7.098
32+340	3.379	7.122
32+360	3.379	7.150
32+380	3.379	7.181
32+400	3.379	7.213
32+420	3.379	7.245
32+440	3.379	7.277
32+460	3.380	7.310
32+480	3.380	7.342
32+500	3.380	7.374
32+520	3.380	7.406
32+540	3.380	7.439
32+560	3.381	7.471
32+580	3.384	7.503
32+600	3.388	7.535
32+620	3.386	7.562
32+640	3.390	7.583
32+660	3.394	7.599
32+680	3.398	7.609
32+700	3.402	7.615
32+720	3.407	7.620
32+740	3.411	7.625
32+760	3.416	7.630
32+780	3.421	7.635
32+800	3.412	7.640
32+820	3.414	7.645
32+840	3.417	7.650
32+860	3.420	7.655
32+880	3.423	7.660
32+900	3.427	7.665
32+920	3.430	7.670
32+940	3.432	7.675
32+960	3.433	7.680
32+980	3.434	7.685
33+000	3.435	7.690

VPC STA: 32+280.000  
 VPC ELE: 7.058

PVI STA=32+330.000  
 PVI ELE=7.100  
 K=1292.759  
 LVC=100.000  
 E=0.010

VPT STA: 32+380.000  
 VPT ELE: 7.181

0.161%

VPC STA: 32+590.000  
 VPC ELE: 7.519

PVI STA=32+640.000  
 PVI ELE=7.600  
 K=733.728  
 LVC=100.000  
 E=0.017

VPT STA: 32+690.000  
 VPT ELE: 7.612

CULVERT

CULVERT

CULVERT

**CLIENT:** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 to Km 47+075 (36.00 Km)

**DESIGN CONSULTANT:**

**TITLE:** PLAN & PROFILE FROM STA. 32+250 TO STA. 33+000

EDNO.	DATE	DESCRIPTION

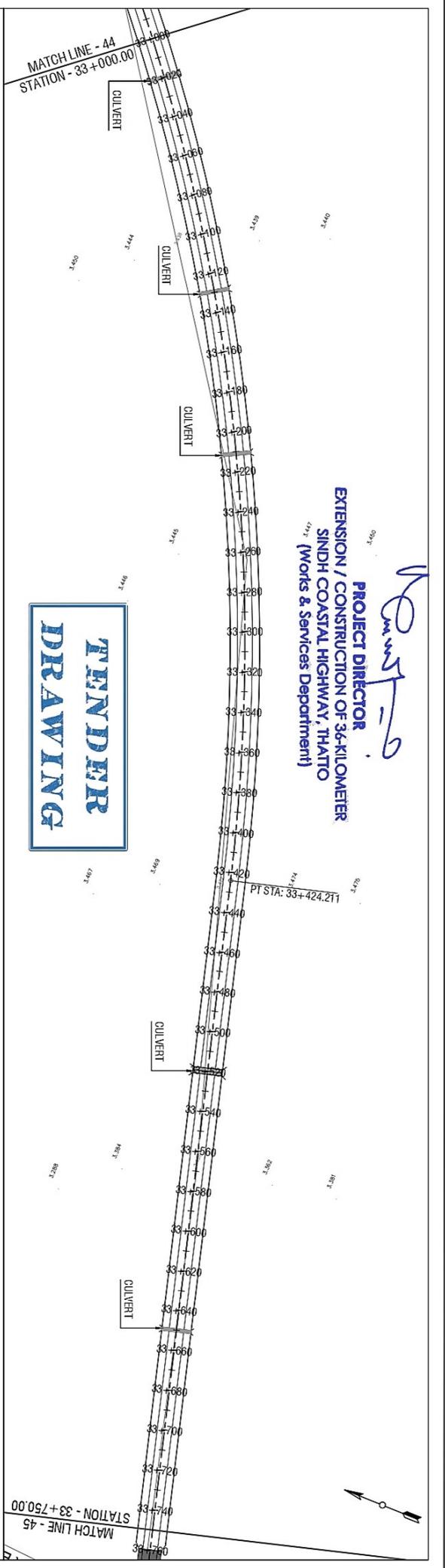
**DRAWN:** ZOHAB  
**DESIGNED:** ZOHAB  
**CHECKED:** RUX ALI ABRU  
**DATE:** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-44  
**Scale:** H=1:2000 V=1:200  
**Edition:** 0

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

*Handwritten signature*

**TENDER**  
**DRAWING**



STATION	EXISTING	PROPOSED
33+000	3.435	7.690
33+020	3.435	7.695
33+040	3.436	7.700
33+060	3.437	7.705
33+080	3.438	7.710
33+100	3.438	7.715
33+120	3.439	7.720
33+140	3.440	7.725
33+160	3.440	7.730
33+180	3.441	7.735
33+200	3.442	7.740
33+220	3.443	7.745
33+240	3.443	7.750
33+260	3.444	7.755
33+280	3.447	7.760
33+300	3.450	7.765
33+320	3.454	7.770
33+340	3.457	7.775
33+360	3.461	7.780
33+380	3.464	7.785
33+400	3.468	7.788
33+420	3.471	7.779
33+440	3.474	7.757
33+460	3.478	7.720
33+480	3.481	7.670
33+500	3.484	7.608
33+520	3.488	7.544
33+540	3.491	7.480
33+560	3.495	7.416
33+580	3.495	7.352
33+600	3.490	7.288
33+620	3.484	7.224
33+640	3.479	7.160
33+660	3.474	7.102
33+680	3.469	7.058
33+700	3.464	7.026
33+720	3.469	7.006
33+740	3.484	7.000
33+750	3.488	7.000

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 1+000 to Km 4+0/3 (3000 Km)

**DESIGN CONSULTANT:** **TITLE:-** PLAN & PROFILE FROM STA. 33+000 TO STA. 33+750

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-**  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-45  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

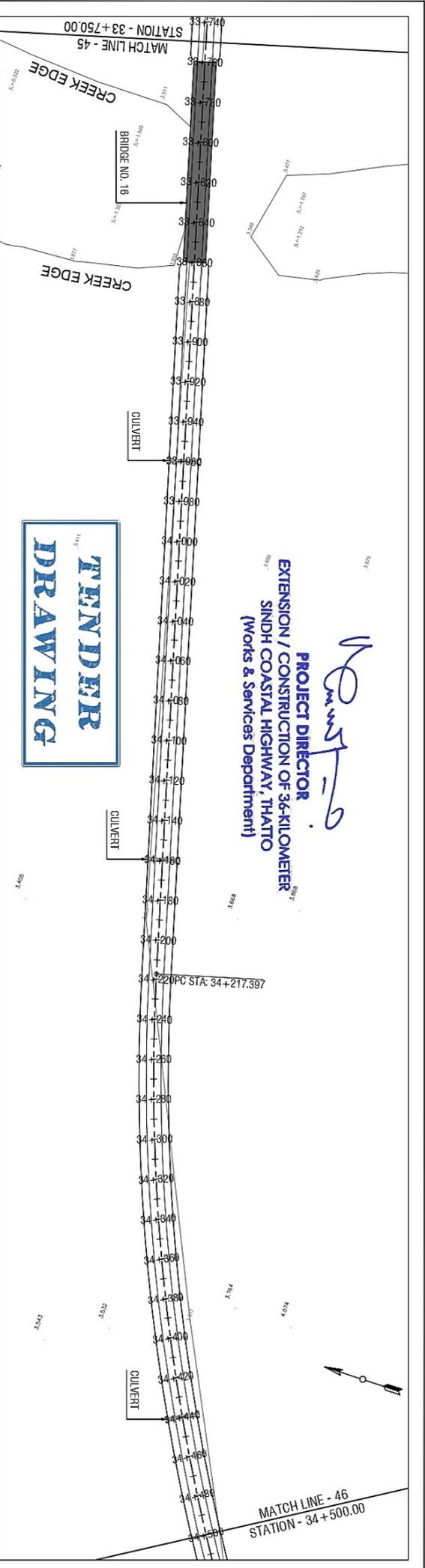
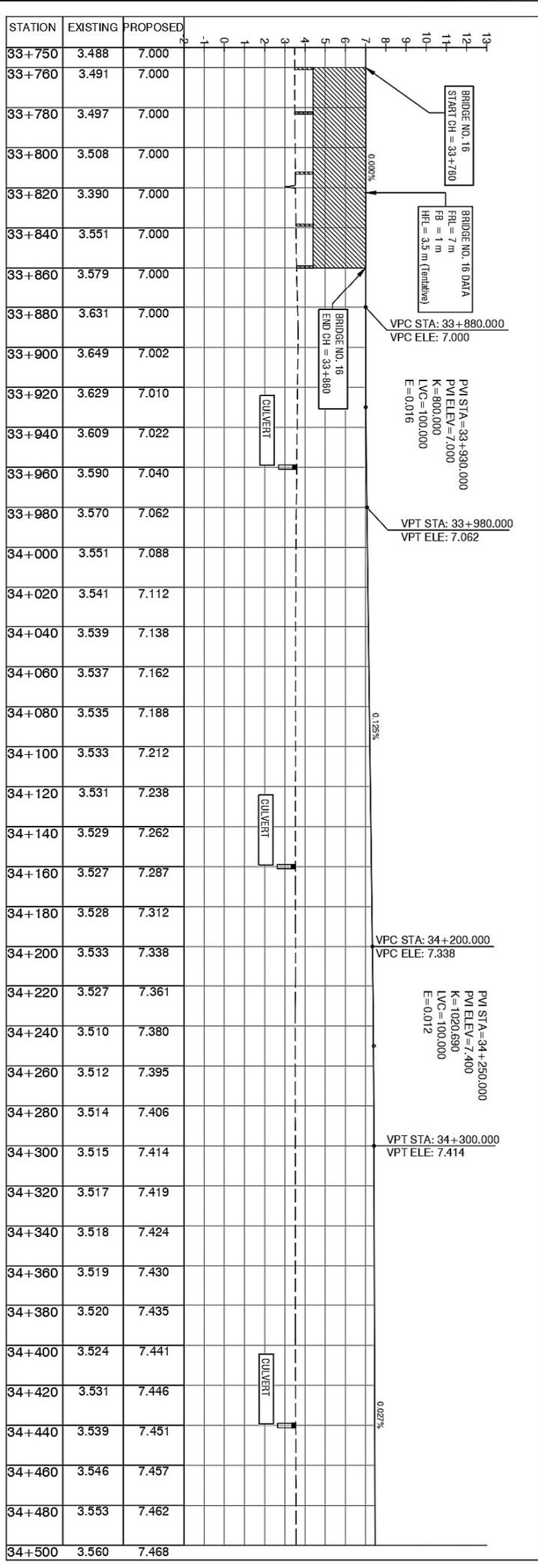
PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+075 (36.00 Km)

DESIGN CONSULTANT  
**AVI**  
Joint Venture (JV)

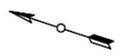
TITLE:-  
PLAN & PROFILE  
FROM STA. 33+750 TO STA. 34+500

EDNG.	DATE	DESCRIPTION

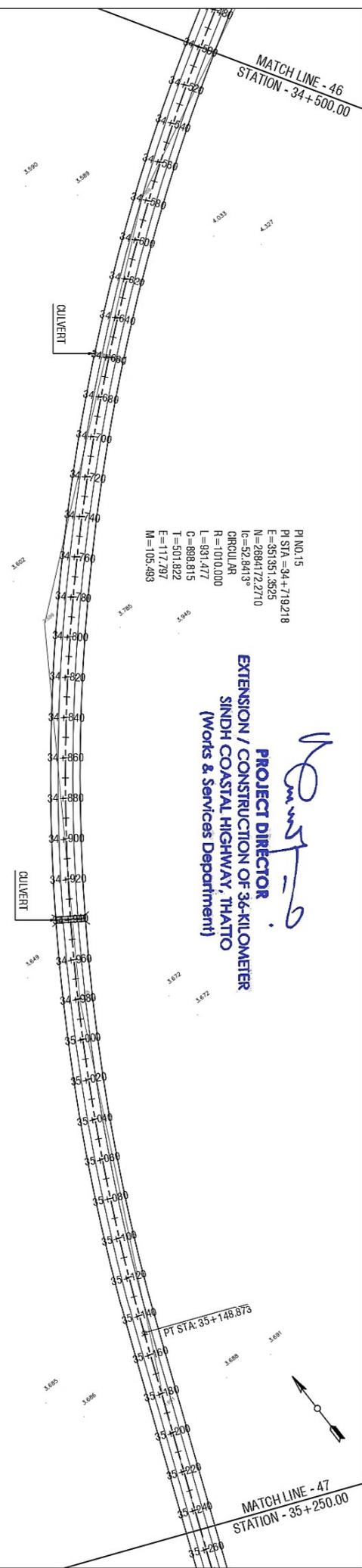
DRAWN: ZOHAB  
DESIGNED:  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER 2025  
DRAWING NO.  
HWY-PANEL-PP-46  
Scale:- H=1:2000 V=1:200  
Edition, 0



**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



MATCH LINE - 46  
STATION - 34+500.00



**TENDER DRAWING**

STATION	EXISTING	PROPOSED
34+500	3.560	7.468
34+520	3.567	7.473
34+540	3.574	7.478
34+560	3.584	7.484
34+580	3.627	7.489
34+600	3.618	7.495
34+620	3.611	7.501
34+640	3.609	7.507
34+660	3.612	7.513
34+680	3.619	7.520
34+700	3.630	7.527
34+720	3.647	7.533
34+740	3.667	7.540
34+760	3.682	7.547
34+780	3.671	7.553
34+800	3.661	7.560
34+820	3.652	7.567
34+840	3.645	7.573
34+860	3.639	7.580
34+880	3.636	7.586
34+900	3.635	7.588
34+920	3.637	7.584
34+940	3.643	7.576
34+960	3.649	7.563
34+980	3.655	7.545
35+000	3.658	7.527
35+020	3.660	7.509
35+040	3.663	7.491
35+060	3.666	7.473
35+080	3.668	7.455
35+100	3.671	7.437
35+120	3.673	7.424
35+140	3.675	7.416
35+160	3.678	7.413
35+180	3.680	7.415
35+200	3.685	7.422
35+220	3.692	7.429
35+240	3.699	7.437
35+250	3.702	7.440

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 to km 47+075 (36300 km)

**DESIGN CONSULTANT:** AYA

**TITLE:-** PLAN & PROFILE FROM STA. 34+500 TO STA. 35+250

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** RUX ALI ABRRO  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER, 2025

**DRAWING NO.:** HWY-PANEL-PP-47  
**Scale:-** H = 1:2000  
 V = 1:200  
**Edition:** 0

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From km 1+400 to km 4+705 (36.00 km)

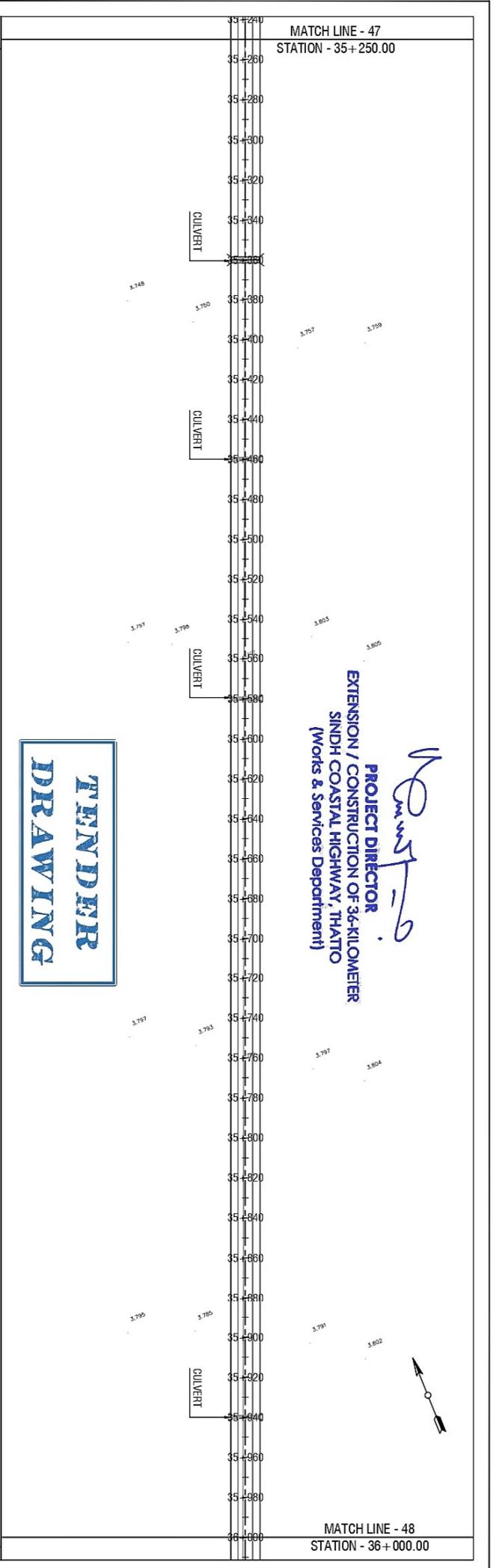


DESIGN CONSULTANT  
TITLE:-  
PLAN & PROFILE  
FROM STA. 35+250 TO STA. 36+000

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:	DRAWING NO.
			ZOHAB		RUX ALI ABRRO	OCTOBER 2025	HWY-PANEL-PP-48
							Scale:- H = 1:2000 V = 1:200
							Edition. 0

STATION	EXISTING	PROPOSED
35+250	3.702	7.440
35+260	3.706	7.444
35+280	3.712	7.451
35+300	3.719	7.459
35+320	3.726	7.466
35+340	3.733	7.474
35+360	3.739	7.481
35+380	3.746	7.488
35+400	3.753	7.496
35+420	3.759	7.503
35+440	3.766	7.510
35+460	3.772	7.518
35+480	3.778	7.525
35+500	3.784	7.532
35+520	3.791	7.540
35+540	3.797	7.547
35+560	3.807	7.554
35+580	3.805	7.562
35+600	3.803	7.569
35+620	3.802	7.576
35+640	3.800	7.584
35+660	3.798	7.591
35+680	3.796	7.599
35+700	3.795	7.606
35+720	3.793	7.613
35+740	3.791	7.621
35+760	3.790	7.628
35+780	3.788	7.635
35+800	3.786	7.643
35+820	3.784	7.650
35+840	3.783	7.657
35+860	3.781	7.665
35+880	3.779	7.672
35+900	3.778	7.679
35+920	3.779	7.687
35+940	3.781	7.694
35+960	3.783	7.701
35+980	3.785	7.709
36+000	3.787	7.716

**TENDER  
DRAWING**

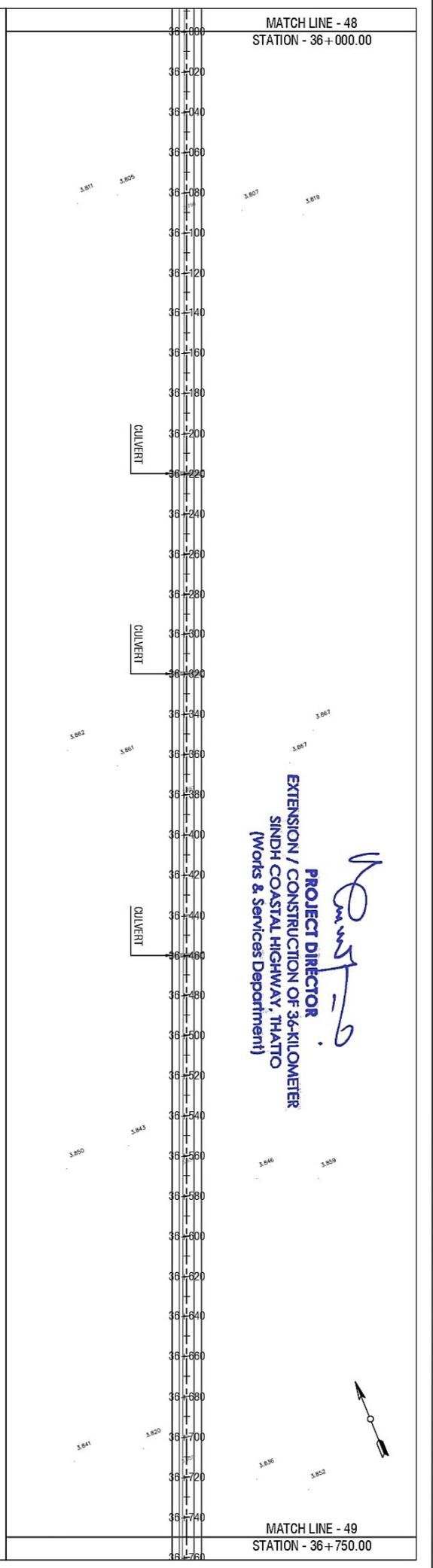


MATCH LINE - 48  
STATION - 36+000.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THALTO  
(Works & Services Department)

*Mustafa*

MATCH LINE - 49  
STATION - 36+750.00



**TENDER  
DRAWING**

STATION	EXISTING	PROPOSED
36+000	3.787	7.716
36+020	3.789	7.724
36+040	3.791	7.731
36+060	3.794	7.738
36+080	3.796	7.746
36+100	3.799	7.753
36+120	3.804	7.760
36+140	3.809	7.768
36+160	3.814	7.775
36+180	3.818	7.782
36+200	3.823	7.790
36+220	3.828	7.797
36+240	3.833	7.804
36+260	3.838	7.812
36+280	3.843	7.819
36+300	3.848	7.826
36+320	3.853	7.834
36+340	3.857	7.841
36+360	3.862	7.849
36+380	3.867	7.856
36+400	3.864	7.863
36+420	3.860	7.871
36+440	3.857	7.878
36+460	3.853	7.885
36+480	3.850	7.892
36+500	3.846	7.898
36+520	3.842	7.904
36+540	3.839	7.909
36+560	3.835	7.914
36+580	3.834	7.919
36+600	3.833	7.924
36+620	3.832	7.929
36+640	3.831	7.933
36+660	3.828	7.938
36+680	3.820	7.943
36+700	3.811	7.948
36+720	3.811	7.952
36+740	3.820	7.957
36+750	3.825	7.960

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 to km 47+000 (36.00 km)

**DESIGN CONSULTANT**  
Joint Venture (JV)  
AA

**TITLE:-** PLAN & PROFILE FROM STA. 36+000 TO STA. 36+750

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** RUX ALI ABRRO  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER, 2025

**DRAWING NO.** HWY-PANEL-PP-49  
**Scale:-** H=1:2000 V=1:200  
**Edition,** 0

MATCH LINE - 49  
STATION - 36+750.00

# TENDER DRAWING

PI NO. 16  
PI STA = 37+112.381  
E = 350.424, 340.4  
N = 2681.983, 595.1  
I = 8.8251°  
CIRCULAR  
R = 2030.000  
L = 303.366  
C = 305.289  
T = 153.083  
E = 5.784  
M = 5.748

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3+ KILOMETER  
SINDH COASTAL HIGHWAY, THATO  
(Works & Services Department)

*[Signature]*  
PROJECT DIRECTOR

MATCH LINE - 50  
STATION - 37+500.00

STATION	EXISTING	PROPOSED	
36+750	3.825	7.960	
36+760	3.829	7.962	
36+780	3.839	7.967	
36+800	3.848	7.971	CULVERT
36+820	3.858	7.976	
36+840	3.867	7.981	
36+860	3.877	7.986	
36+880	3.887	7.991	
36+900	3.896	7.997	
36+920	3.906	8.004	
36+940	3.915	8.012	
36+960	3.918	8.021	
36+980	3.921	8.032	CULVERT
37+000	3.924	8.042	
37+020	3.926	8.053	
37+040	3.929	8.063	
37+060	3.931	8.074	
37+080	3.934	8.084	
37+100	3.937	8.095	
37+120	3.939	8.105	
37+140	3.942	8.116	
37+160	3.945	8.126	
37+180	3.947	8.137	
37+200	3.950	8.147	
37+220	3.953	8.158	
37+240	3.955	8.168	
37+260	3.958	8.178	
37+280	3.961	8.180	CULVERT
37+300	3.963	8.174	
37+320	3.966	8.160	
37+340	3.969	8.137	
37+360	3.972	8.108	
37+380	3.974	8.077	
37+400	3.972	8.046	
37+420	3.961	8.015	CULVERT
37+440	3.950	7.985	
37+460	3.939	7.954	
37+480	3.928	7.923	
37+500	3.917	7.892	

VPC STA: 36+870.000  
VPC ELE: 7.988

PVI STA = 36+920.000  
PVI ELEV = 8.000  
K = 3463.565  
LVC = 100.000  
E = 0.004

VPT STA: 36+970.000  
VPT ELE: 8.026

0.063%

VPC STA: 37+250.000  
VPC ELE: 8.174

PVI STA = 37+300.000  
PVI ELEV = 8.200  
K = 484.314  
LVC = 100.000  
E = 0.026

VPT STA: 37+350.000  
VPT ELE: 8.123

-0.154%

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+075 (36.00 Km)

DESIGN CONSULTANT

TITLE:-  
PLAN & PROFILE  
FROM STA. 36+750 TO STA. 37+500

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB		RUX ALI ABRRO	OCTOBER, 2025

DRAWING NO.  
HWY-PANEL-PP-50  
Scale:-  
H = 1:2000  
V = 1:200  
Edition,  
0

MATCH LINE - 50  
STATION - 37+500.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Q. Mustafa*

MATCH LINE - 51  
STATION - 38+250.00

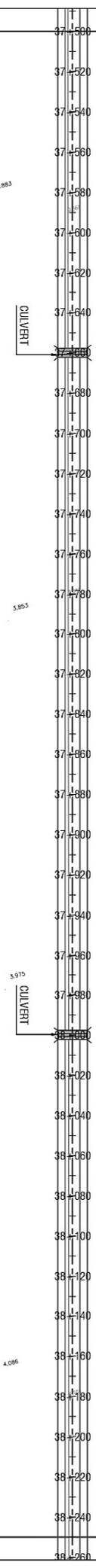
**TENDER  
DRAWING**

STATION	EXISTING	PROPOSED	
37+500	3.917	7.892	
37+520	3.906	7.862	
37+540	3.895	7.831	
37+560	3.884	7.800	
37+580	3.873	7.769	
37+600	3.867	7.738	
37+620	3.865	7.708	
37+640	3.863	7.677	CULVERT
37+660	3.861	7.650	
37+680	3.858	7.632	
37+700	3.856	7.622	
37+720	3.854	7.621	
37+740	3.852	7.628	
37+760	3.850	7.639	
37+780	3.848	7.650	
37+800	3.861	7.661	
37+820	3.875	7.673	
37+840	3.888	7.684	
37+860	3.902	7.695	
37+880	3.916	7.706	
37+900	3.929	7.717	
37+920	3.943	7.729	
37+940	3.956	7.740	
37+960	3.970	7.751	CULVERT
37+980	3.983	7.762	
38+000	3.995	7.773	
38+020	4.007	7.784	
38+040	4.019	7.796	
38+060	4.030	7.807	
38+080	4.042	7.818	
38+100	4.054	7.829	
38+120	4.065	7.840	
38+140	4.077	7.852	
38+160	4.089	7.863	
38+180	4.101	7.874	
38+200	4.101	7.885	
38+220	4.102	7.896	
38+240	4.103	7.907	
38+250	4.103	7.913	

VPC STA: 37+640.000  
VPC ELE: 7.677

PM STA=37+690.000  
PV ELE=7.600  
K=476.765  
LVC=100.000  
E=0.026

VPT STA: 37+740.000  
VPT ELE: 7.628



**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

**DESIGN CONSULTANT:** LATENT VENTURE (PVT) LTD.

**TITLE:-** PLAN & PROFILE FROM STA. 37+500 TO STA. 38+250

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-** ZOHAB  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER, 2025

**DRAWING NO.:** HWY-PANEL-PP-51  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

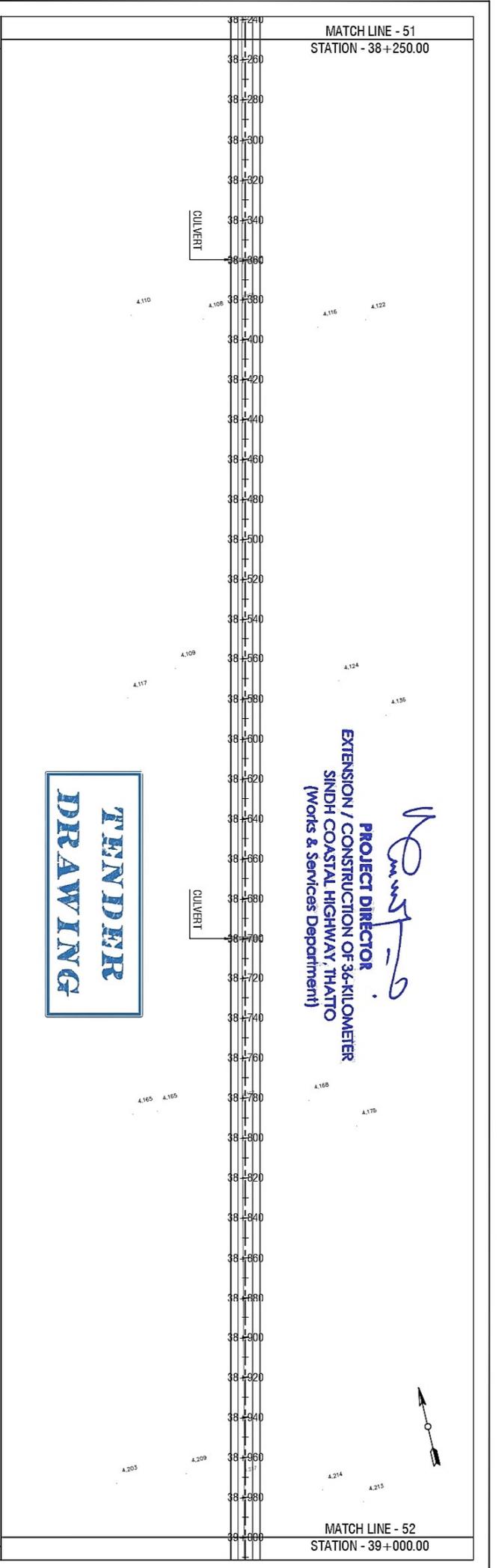
PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+075 (36.00 Km)



DESIGN CONSULTANT  
TITLE:-  
PLAN & PROFILE  
FROM STA. 38+250 TO STA. 39+000

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB		RUX ALI ABRU	OCTOBER, 2025

STATION	EXISTING	PROPOSED	
38+250	4.103	7.913	
38+260	4.104	7.919	
38+280	4.104	7.930	
38+300	4.105	7.941	
38+320	4.106	7.952	
38+340	4.107	7.963	
38+360	4.107	7.975	
38+380	4.108	7.986	
38+400	4.107	7.997	
38+420	4.106	8.008	
38+440	4.105	8.019	
38+460	4.104	8.030	
38+480	4.103	8.042	
38+500	4.102	8.053	
38+520	4.101	8.064	
38+540	4.100	8.075	
38+560	4.099	8.086	
38+580	4.099	8.098	
38+600	4.104	8.109	
38+620	4.111	8.120	
38+640	4.117	8.131	
38+660	4.124	8.142	
38+680	4.130	8.153	
38+700	4.136	8.165	
38+720	4.143	8.176	
38+740	4.149	8.187	
38+760	4.156	8.198	
38+780	4.162	8.209	
38+800	4.168	8.220	
38+820	4.174	8.232	
38+840	4.180	8.243	
38+860	4.186	8.254	
38+880	4.191	8.265	
38+900	4.197	8.276	
38+920	4.203	8.288	
38+940	4.209	8.299	
38+960	4.215	8.310	
38+980	4.216	8.321	
39+000	4.215	8.332	



**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Handwritten signature*



**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 to km 47+075 (36.00 km)

**DESIGN CONSULTANT:**  **Joint Venture (JV)**

**TITLE:-** PLAN & PROFILE FROM STA. 39+000 TO STA. 39+750

EDNO.	DATE	DESCRIPTION

**DRAWN:-** ZOHAB  
**DESIGNED:-**  
**CHECKED:-** RUX ALI ABRRO  
**DATE:-** OCTOBER 2025

**DRAWING NO.:** HWY-PANEL-PP-53  
**Scale:-** H=1:2000 V=1:200  
**Edition:** 0

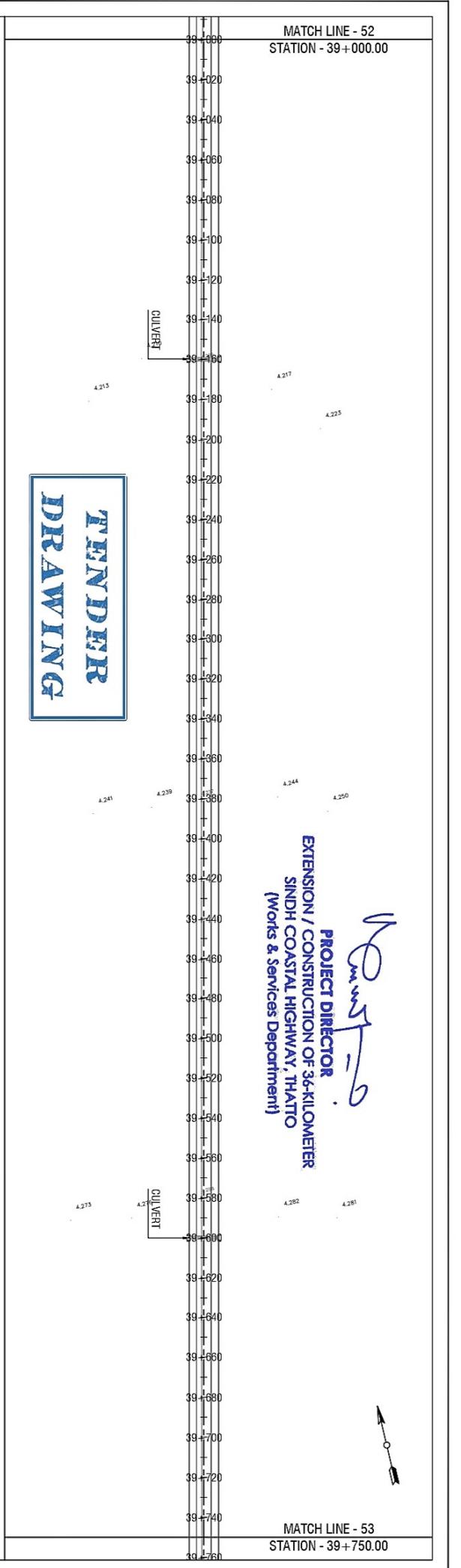
STATION	EXISTING	PROPOSED
39+000	4.215	8.332
39+020	4.215	8.343
39+040	4.214	8.355
39+060	4.213	8.366
39+080	4.212	8.377
39+100	4.211	8.388
39+120	4.210	8.399
39+140	4.209	8.411
39+160	4.208	8.422
39+180	4.211	8.433
39+200	4.214	8.444
39+220	4.216	8.455
39+240	4.219	8.466
39+260	4.221	8.477
39+280	4.224	8.486
39+300	4.227	8.491
39+320	4.229	8.494
39+340	4.232	8.494
39+360	4.235	8.492
39+380	4.238	8.489
39+400	4.243	8.486
39+420	4.248	8.484
39+440	4.253	8.481
39+460	4.258	8.478
39+480	4.263	8.476
39+500	4.268	8.473
39+520	4.273	8.470
39+540	4.279	8.468
39+560	4.284	8.465
39+580	4.287	8.462
39+600	4.278	8.459
39+620	4.269	8.457
39+640	4.260	8.454
39+660	4.251	8.451
39+680	4.243	8.449
39+700	4.234	8.446
39+720	4.225	8.443
39+740	4.216	8.441
39+750	4.211	8.439

VPC STA: 39+250.000  
VPC ELE: 8.472

PVI STA=39+300.000  
PVI ELE=8.500  
K=1440.629  
LVC=100.000  
E=0.009

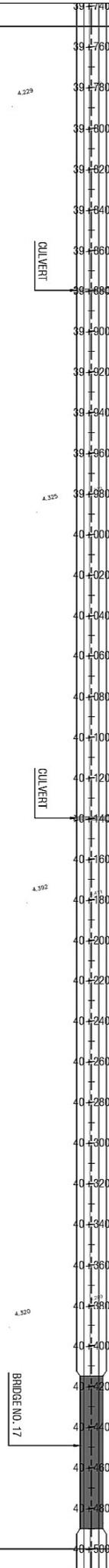
VPT STA: 39+350.000  
VPT ELE: 8.493

-0.014%



**TENDER DRAWING**

MATCH LINE - 53  
STATION - 39+750.00



**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THAITO  
(Works & Services Department)

*Qamran*

MATCH LINE - 54  
STATION - 40+500.00

STATION	EXISTING	PROPOSED
39+750	4.211	8.439
39+760	4.207	8.438
39+780	4.199	8.435
39+800	4.211	8.432
39+820	4.224	8.430
39+840	4.236	8.427
39+860	4.249	8.424
39+880	4.261	8.422
39+900	4.274	8.419
39+920	4.286	8.416
39+940	4.299	8.414
39+960	4.311	8.411
39+980	4.323	8.408
40+000	4.332	8.405
40+020	4.341	8.395
40+040	4.350	8.377
40+060	4.358	8.353
40+080	4.367	8.322
40+100	4.376	8.284
40+120	4.385	8.245
40+140	4.394	8.206
40+160	4.403	8.168
40+180	4.410	8.129
40+200	4.398	8.090
40+220	4.385	8.052
40+240	4.373	8.013
40+260	4.361	7.974
40+280	4.349	7.935
40+300	4.336	7.897
40+320	4.324	7.862
40+340	4.312	7.835
40+360	4.300	7.815
40+380	4.291	7.804
40+400	4.302	7.800
40+420	4.313	7.800
40+440	4.324	7.800
40+460	4.335	7.800
40+480	4.347	7.800
40+500	4.358	7.800

VPC STA: 39+990.000  
VPC ELE: 8.407

PVI STA=40+040.000  
PVI ELE=8.400  
K=555.448  
LVC=100.000  
E=0.023

VPT STA: 40+090.000  
VPT ELE: 8.303

VPC STA: 40+300.000  
VPC ELE: 7.897

PVI STA=40+350.000  
PVI ELE=7.800  
K=516.657  
LVC=100.000  
E=0.024

VPT STA: 40+400.000  
VPT ELE: 7.800

BRIDGE NO. 17 DATA  
R1 = 7.8 m  
R2 = 1 m  
HL = 4.3 m (relative)  
BRIDGE NO. 17  
START CH = 40+490

BRIDGE NO. 17  
START CH = 40+415

-0.194%

0.0000%

DESIGN CONSULTANT



TITLE:

PLAN & PROFILE  
FROM STA. 39+750 TO STA. 40+500

EDNO.

DATE

DESCRIPTION

DRAWN: ZOHAB

DESIGNED:

DRAWING NO.  
HWY-PANEL-PP-54

CHECKED: RUX ALI ABRRO

DATE: OCTOBER 2025

Scale: H=1:2000 V=1:200

Edition: 0

0

WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+075 (36.00 Km)

CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+025 (36.00 Km)

DESIGN CONSULTANT

TITLE:-  
PLAN & PROFILE  
FROM STA. 40+500 TO STA. 41+250

EDNG.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB		RUX ALI ABRU	OCTOBER, 2025

STATION	EXISTING	PROPOSED
40+500	4.358	7.800
40+520	4.369	7.802
40+540	4.380	7.819
40+560	4.391	7.852
40+580	4.403	7.902
40+600	4.406	7.969
40+620	4.408	8.050
40+640	4.410	8.133
40+660	4.413	8.217
40+680	4.415	8.300
40+700	4.417	8.381
40+720	4.420	8.447
40+740	4.422	8.496
40+760	4.424	8.528
40+780	4.427	8.543
40+800	4.428	8.542
40+820	4.429	8.539
40+840	4.430	8.537
40+860	4.431	8.534
40+880	4.432	8.532
40+900	4.432	8.529
40+920	4.433	8.526
40+940	4.434	8.524
40+960	4.436	8.521
40+980	4.437	8.518
41+000	4.440	8.516
41+020	4.445	8.513
41+040	4.449	8.511
41+060	4.454	8.508
41+080	4.458	8.506
41+100	4.462	8.508
41+120	4.467	8.515
41+140	4.471	8.528
41+160	4.475	8.545
41+180	4.480	8.566
41+200	4.511	8.588
41+220	4.544	8.610
41+240	4.577	8.632
41+250	4.593	8.643

**TENDER  
DRAWING**

VPC STA: 40+510.000  
VPC ELE: 7.800  
PVI STA=40+560.000  
PVI ELE=7.800  
K=240.000  
LVC=100.000  
E=0.052

VPT STA: 40+610.000  
VPT ELE: 8.008

VPC STA: 40+690.000  
VPC ELE: 8.342

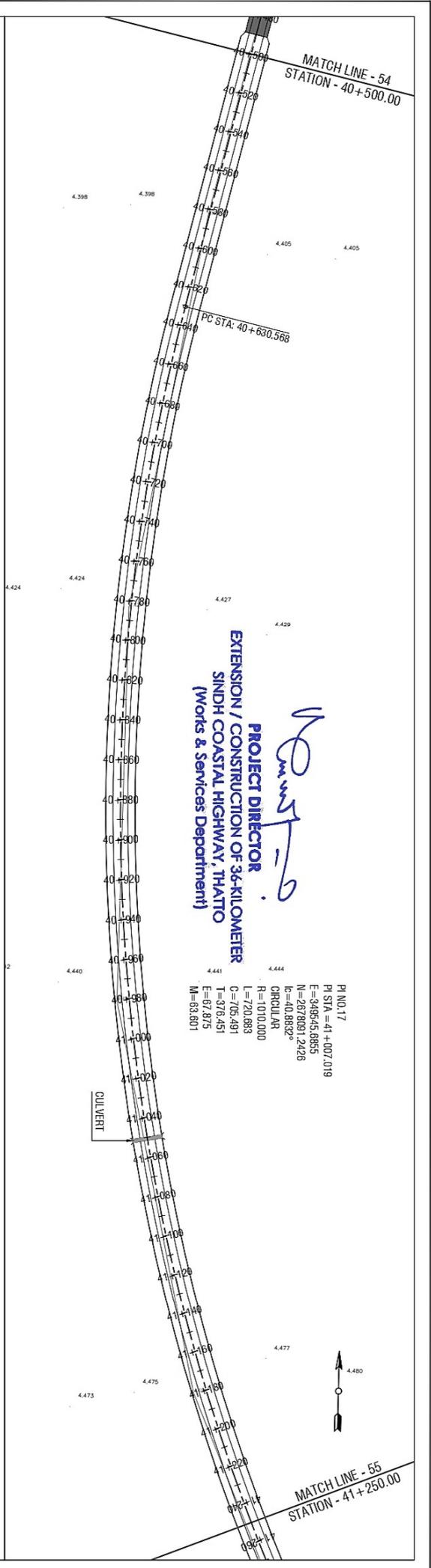
PVI STA=40+740.000  
PVI ELE=8.550  
K=222.653  
LVC=100.000  
E=0.054

VPT STA: 40+790.000  
VPT ELE: 8.543

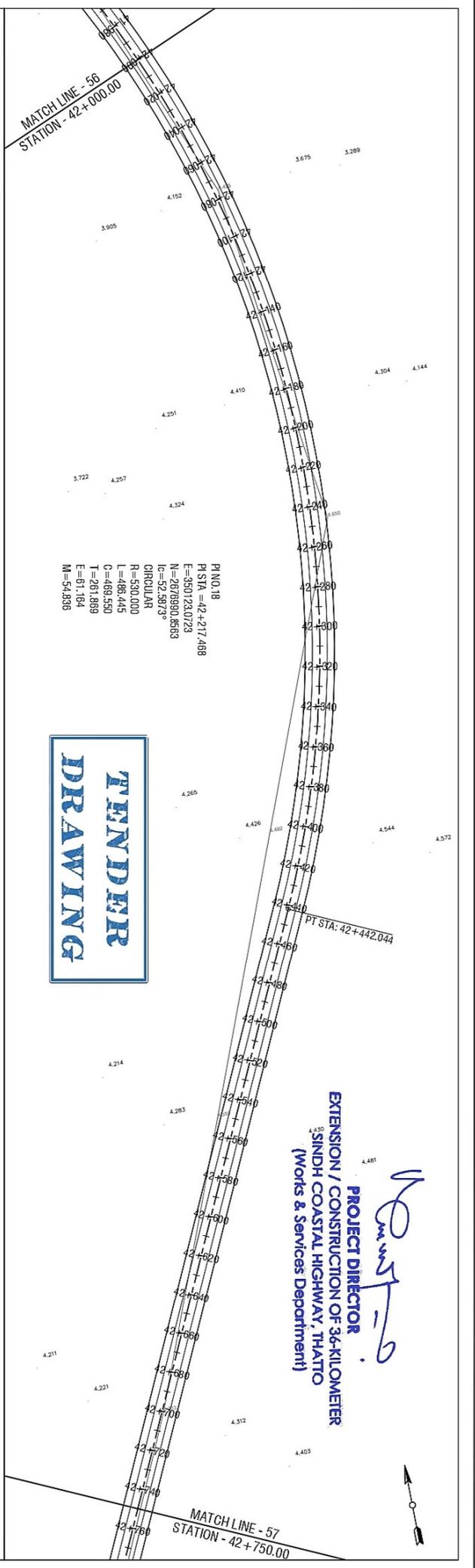
VPC STA: 41+070.000  
VPC ELE: 8.507

PVI STA=41+120.000  
PVI ELE=8.500  
K=813.048  
LVC=100.000  
E=0.015

VPT STA: 41+170.000  
VPT ELE: 8.555







STATION	EXISTING	PROPOSED
42+000	3.857	9.168
42+020	4.007	9.162
42+040	4.158	9.151
42+060	4.309	9.137
42+080	4.423	9.118
42+100	4.458	9.097
42+120	4.475	9.076
42+140	4.497	9.055
42+160	4.525	9.034
42+180	4.557	9.013
42+200	4.584	8.992
42+220	4.597	8.972
42+240	4.611	8.951
42+260	4.616	8.930
42+280	4.617	8.909
42+300	4.602	8.888
42+320	4.586	8.867
42+340	4.569	8.846
42+360	4.552	8.825
42+380	4.533	8.804
42+400	4.514	8.784
42+420	4.499	8.763
42+440	4.484	8.743
42+460	4.468	8.729
42+480	4.446	8.722
42+500	4.424	8.722
42+520	4.402	8.729
42+540	4.379	8.743
42+560	4.357	8.757
42+580	4.335	8.771
42+600	4.313	8.786
42+620	4.291	8.800
42+640	4.268	8.814
42+660	4.246	8.829
42+680	4.224	8.843
42+700	4.204	8.857
42+720	4.222	8.872
42+740	4.241	8.889
42+750	4.251	8.899

**CLIENT:-** WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

**PROJECT:-** EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From km 11+000 To km 47+075 (36.00 Km)

**DESIGN CONSULTANT:** **Joint Venture (JV)**

**TITLE:-** PLAN & PROFILE FROM STA. 42+000 TO STA. 42+750

EDNO.	DATE	DESCRIPTION

DRAWN:	DESIGNED:	CHECKED:	DATE:
ZOHAB		RUX ALI ABRRO	OCTOBER, 2025

**DRAWING NO.:** HWY-PANEL-PP-57

**Scale:-** H=1:2000 V=1:200

**Edition:** 0





CLIENT:-  
WORKS AND SERVICES  
DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF  
SINDH COASTAL HIGHWAY (Phase - II)  
From Km 11+000 To Km 47+000 (36.00 Km)

DESIGN CONSULTANT  
**AV**  
Joint Venture (JV)

TITLE:-  
PLAN & PROFILE  
FROM STA. 44+250 TO STA. 45+000

EDNO.	DATE	DESCRIPTION	DRAWN:	DESIGNED:	CHECKED:	DATE:
			ZOHAB		RUX ALI ABRRO	OCTOBER, 2025

STATION	EXISTING	PROPOSED
44+250	4.780	9.317
44+260	4.742	9.325
44+280	4.600	9.344
44+300	4.595	9.365
44+320	4.517	9.386
44+340	3.576	9.408
44+360	5.637	9.430
44+380	5.335	9.451
44+400	5.037	9.473
44+420	4.723	9.495
44+440	4.389	9.516
44+460	4.213	9.538
44+480	4.188	9.559
44+500	4.213	9.581
44+520	4.239	9.603
44+540	4.265	9.624
44+560	4.275	9.646
44+580	4.270	9.662
44+600	5.354	9.665
44+620	6.047	9.657
44+640	5.721	9.636
44+660	5.395	9.604
44+680	5.198	9.565
44+700	5.096	9.527
44+720	4.994	9.488
44+740	4.892	9.450
44+760	4.790	9.412
44+780	4.688	9.373
44+800	4.599	9.335
44+820	4.546	9.296
44+840	4.512	9.259
44+860	4.516	9.226
44+880	4.521	9.196
44+900	4.526	9.170
44+920	4.530	9.146
44+940	4.545	9.125
44+960	4.642	9.104
44+980	4.667	9.082
45+000	4.535	9.061

**TENDER  
DRAWING**

VPT STA: 44+290.000  
VPT ELE: 9.354

VPC STA: 44+560.000  
VPC ELE: 9.646

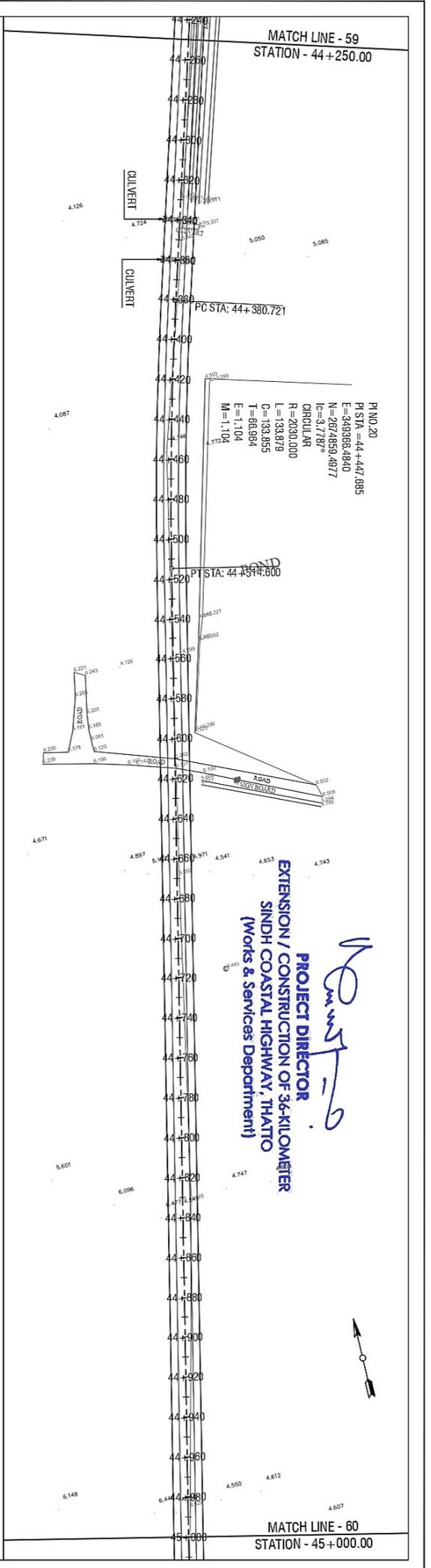
VPT STA: 44+660.000  
VPT ELE: 9.604

VPC STA: 44+820.000  
VPC ELE: 9.296

VPT STA: 44+920.000  
VPT ELE: 9.146

PMI STA=44+610.000  
PMI ELEV=9.700  
K=332.872  
LVC=100.000  
E=0.038

PVI STA=44+870.000  
PVI ELEV=9.200  
K=1174.194  
LVC=100.000  
E=0.011



**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATIO**  
**(Works & Services Department)**

*Handwritten signature*

MATCH LINE - 60  
STATION - 45+000.00



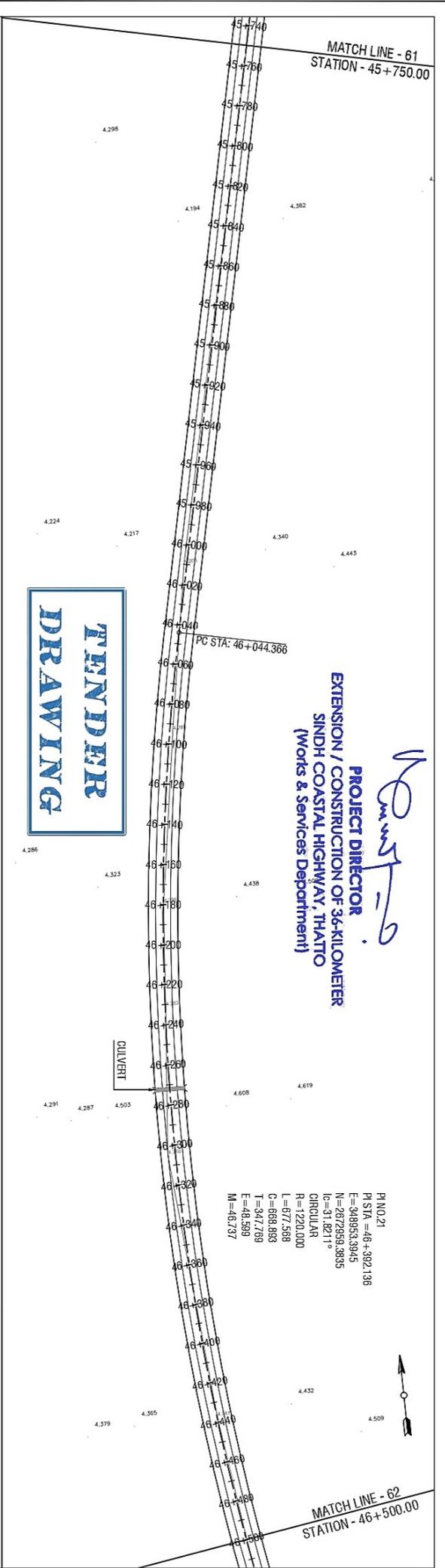
MATCH LINE - 61  
STATION - 45+750.00

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

*Qumt 1.9*

PI NO. 21  
PI STA = 46+392.138  
E = 348853.3945  
N = 2872959.3835  
Ic = 31.8211°  
CIRCULAR  
R = 1220.000  
L = 677.568  
C = 668.893  
T = 347.789  
E = 48.599  
M = 46.737

MATCH LINE - 62  
STATION - 46+500.00



VPC STA: 45+950.000  
VPC ELE: 8.509

PVI STA = 46+000.000  
PVI ELE = 8.500  
K = 472.226  
LVC = 100.000  
E = 0.026

VPT STA: 46+050.000  
VPT ELE: 8.385

STATION	EXISTING	PROPOSED	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
45+750	4.320	8.545																
45+760	4.324	8.543																
45+780	4.333	8.539																
45+800	4.342	8.536																
45+820	4.350	8.532																
45+840	4.337	8.529																
45+860	4.321	8.525																
45+880	4.306	8.521																
45+900	4.290	8.518																
45+920	4.275	8.514																
45+940	4.259	8.511																
45+960	4.244	8.506																
45+980	4.228	8.494																
46+000	4.213	8.474																
46+020	4.217	8.445																
46+040	4.234	8.407																
46+060	4.255	8.362																
46+080	4.276	8.316																
46+100	4.293	8.270																
46+120	4.308	8.224																
46+140	4.324	8.179																
46+160	4.340	8.133																
46+180	4.356	8.087																
46+200	4.366	8.041																
46+220	4.377	7.995																
46+240	4.379	7.949																
46+260	4.375	7.903																
46+280	4.375	7.857																
46+300	4.377	7.811																
46+320	4.352	7.765																
46+340	4.348	7.719																
46+360	4.345	7.673																
46+380	4.343	7.627																
46+400	4.343	7.582																
46+420	4.342	7.536																
46+440	4.340	7.490																
46+460	4.329	7.444																
46+480	4.319	7.398																
46+500	4.308	7.352																

CULVERT

CULVERT

CLIENT: WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROJECT: EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)

DESIGN CONSULTANT: JOINT VENTURE (JV)

TITLE: PLAN & PROFILE FROM STA. 45+750 TO STA. 46+500

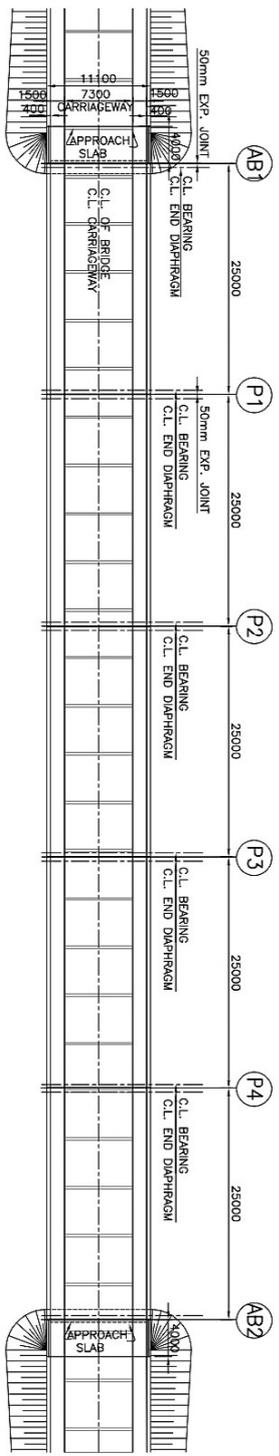
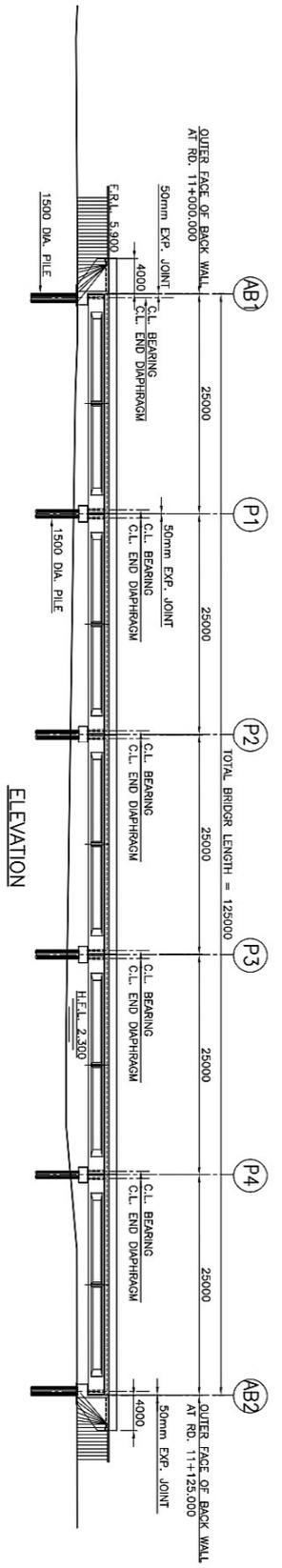
EDNO.	DATE	DESCRIPTION

DRAWN: ZOHAB  
DESIGNED: RUX ALI ABRRO  
CHECKED: RUX ALI ABRRO  
DATE: OCTOBER, 2025

DRAWING NO. HWY-PANEL-PP-82  
Scale: H = 1:2000 V = 1:200  
Edition: 0







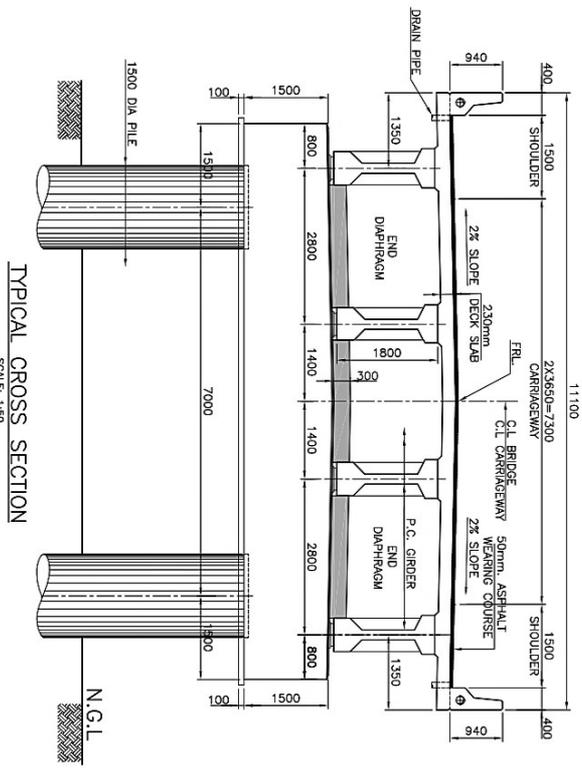
PLAN  
(SHOWING SUPER STRUCTURE)

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
 (Works & Services Department)

*Handwritten signature*

**TENDER**  
**DRAWING**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW  
 FOR PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL  
 INVESTIGATIONS AT LOCATION OF FOUNDATION

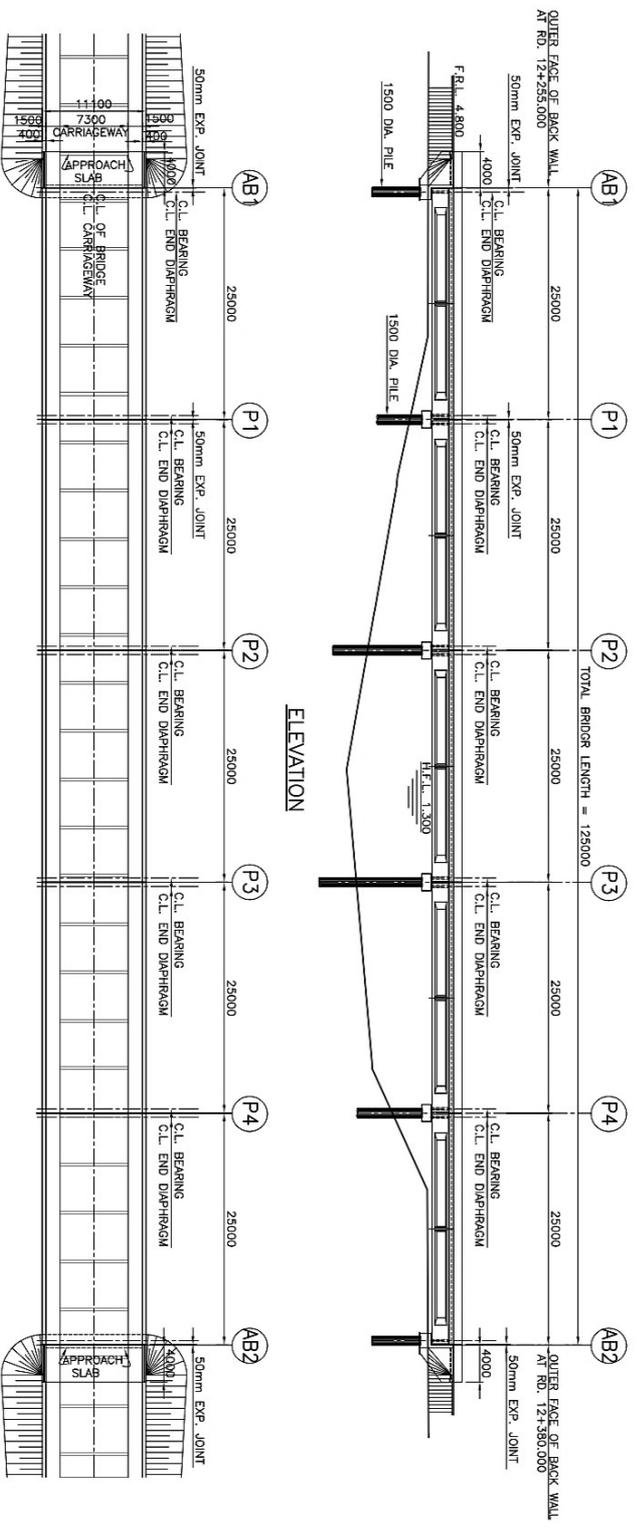


TYPICAL CROSS SECTION  
 SCALE: 1:30

**NOTES:**

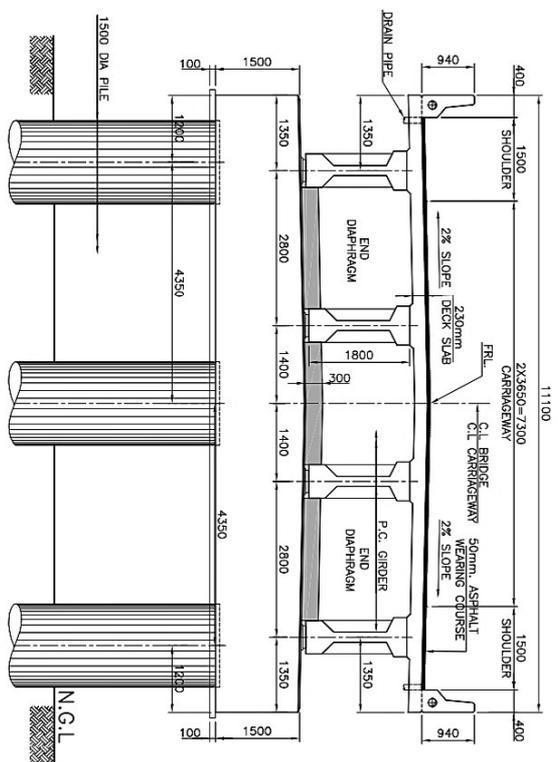
- 1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.
- 2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION/CONSTRUCTION OF SINDH COASTAL HIGHWAY (Phase - II) From Km 11+000 To Km 47+075 (36.00 Km)	DESIGN CONSULTANT  <b>Joint Venture (JV)</b> <b>AV</b>	TITLE:- BRIDGE NO. BR-08 AT RD. 11 + 062.500 GENERAL ARRANGEMENT
ED. NO.	DATE	DESCRIPTION	DRAWN: F.A.S.
			DESIGNED: R.Y.
			CHECKED: S.A.
			DATE: October 2025
			DRAWING NO. STR-BR-08-101
			Scale: 1:300
			Edition



ELEVATION

PLAN  
(SHOWING SUPER STRUCTURE)



TYPICAL CROSS SECTION  
SCALE: 1:50

TENDER  
DRAWING

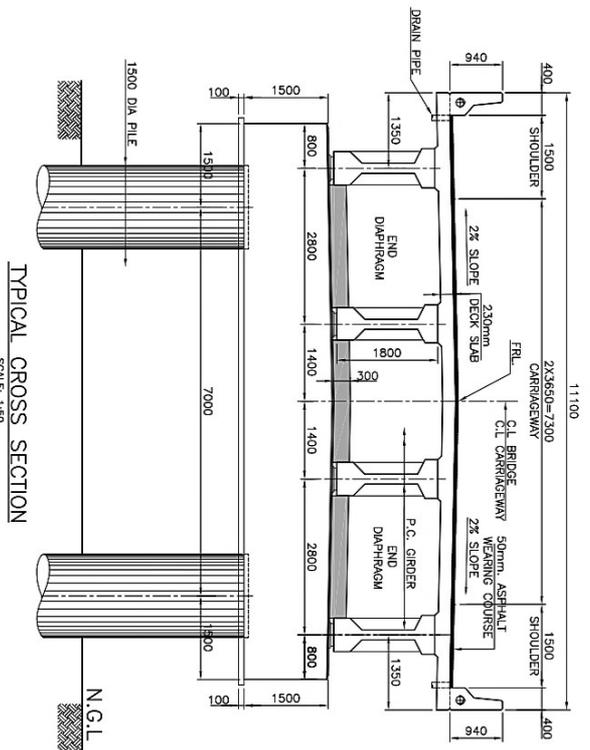
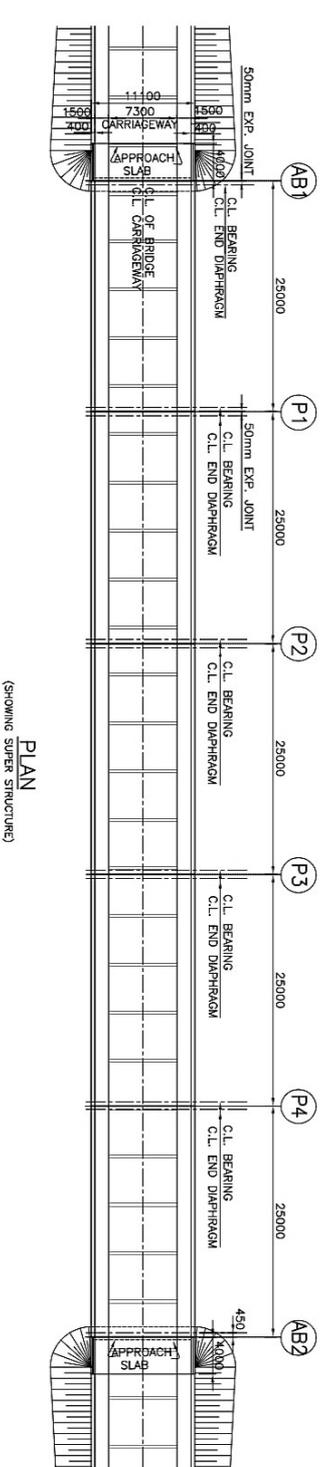
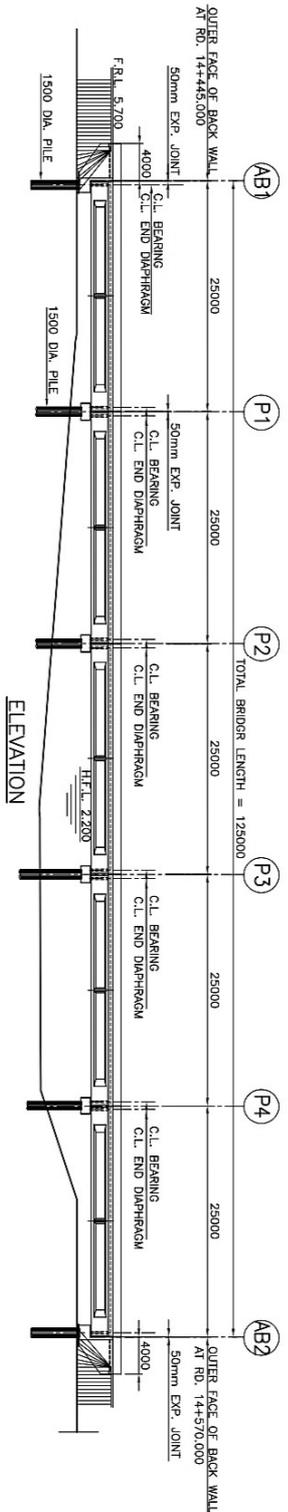
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

Newman

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL INVESTIGATIONS AT LOCATION OF FOUNDATION

**NOTES:**  
1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.  
2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-01-01.

CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:-  <b>EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY</b> Phase - II: From Km 11+000 To Km 47+075 (36.00 Km)	DESIGN CONSULTANT  Esit (Pvt) Ltd 	TITLE:-  <b>BRIDGE NO. BR-09 AT RD. 12+317.500</b> <b>GENERAL ARRANGEMENT</b>
ED.NO.  	DATE  	DESCRIPTION  	DRAWN: F.A.S DESIGNED: R.Y CHECKED: S.A DATE: DEC:2021
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TYPICAL CROSS SECTION  
SCALE: 1:30

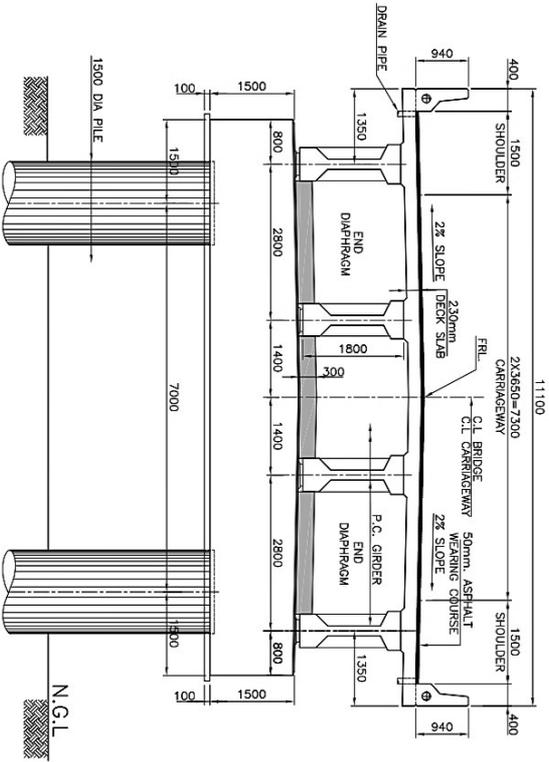
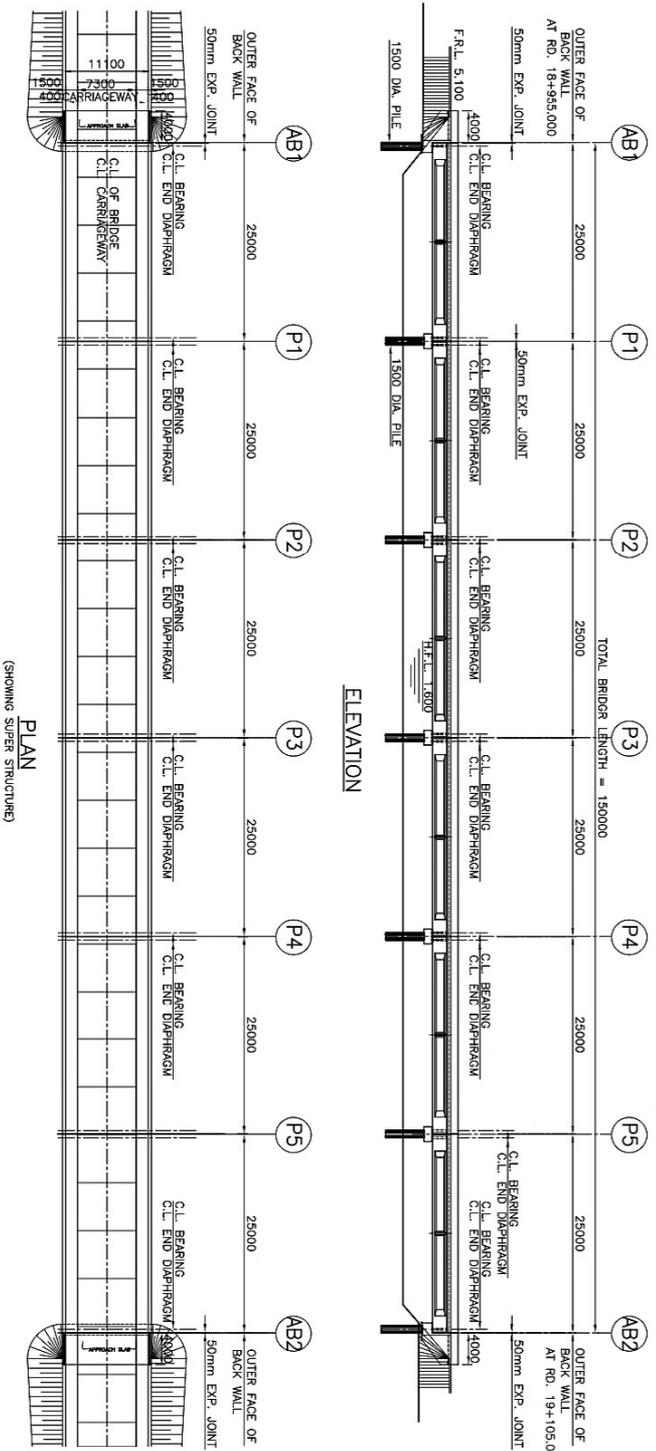
**TENDER  
DRAWING**

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS OF PRECONSTRUCTION OF EACH FOUNDATION INVESTIGATIONS AT LOCATION

**NOTES:**  
1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.  
2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-01.

CLIENT:-   WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:-  <b>EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY</b> Phase - II: From Km 11+000 To Km 17+075 (36.00 Km)	DESIGN CONSULTANT   	TITLE:-  <b>BRIDGE NO. BR-10 AT RD. 14+507.500</b> <b>GENERAL ARRANGEMENT</b>
ED. NO.	DATE	DESCRIPTION	DRAWN: FAS
			DESIGNED: RY
			CHECKED: SA
			DATE: DEC/2021
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			Scale: 1:300
			Edition:



TYPICAL CROSS SECTION  
SCALE: 1:50

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36 KILOMETER  
SINDH COASTAL HIGHWAY, THAITO  
(Works & Services Department)

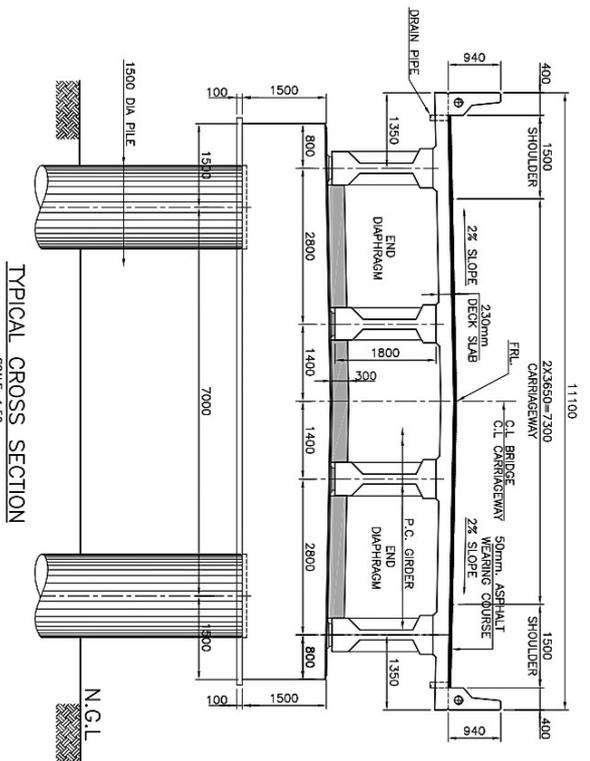
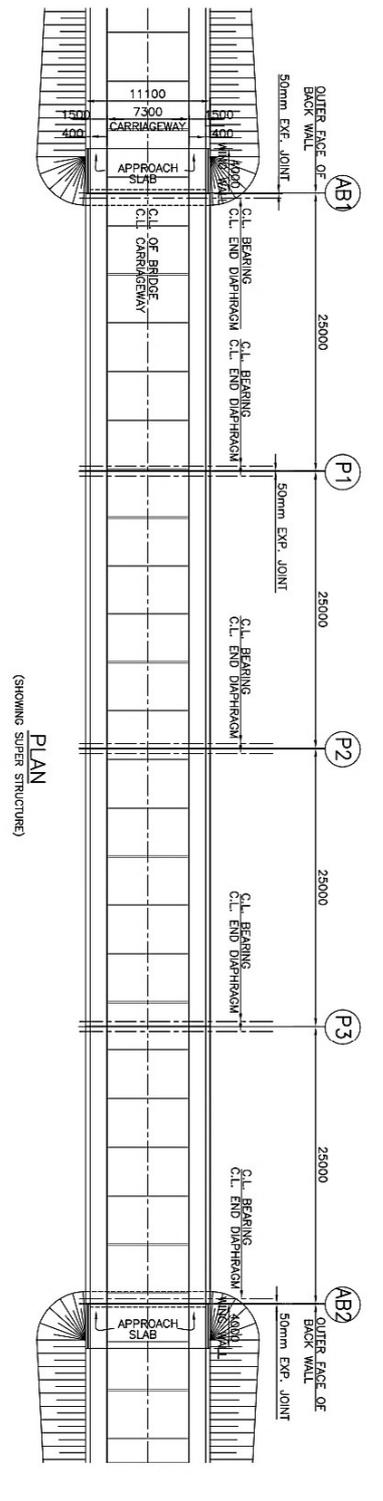
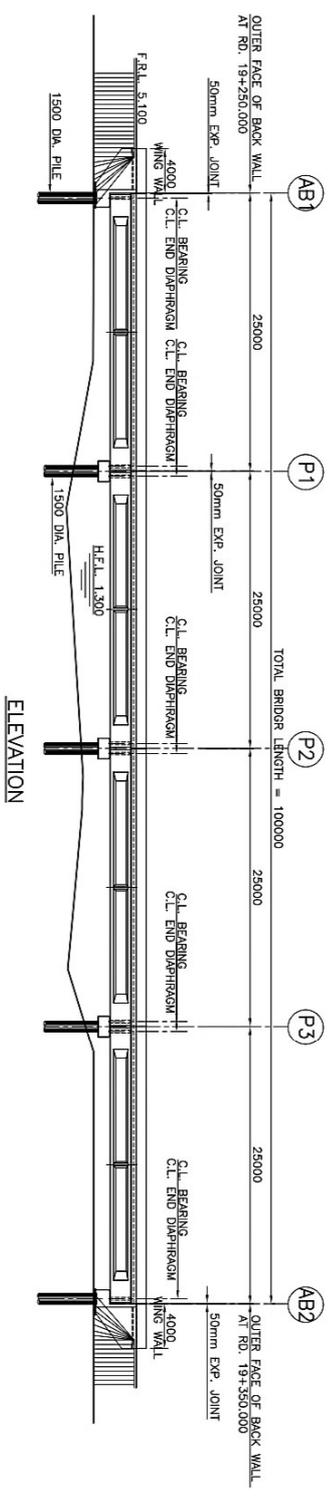
**TENDER  
DRAWING**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW  
PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL  
INVESTIGATIONS AT LOCATION OF EACH FOUNDATION

**NOTES:**

- 1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.
- 2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase-II: From Km 11+000 To Km 47+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- BRIDGE NO. BR-11 AT RD. 19+030.000 GENERAL ARRANGEMENT
ED. NO.	DATE	DESCRIPTION	DRAWN: F.A.S.
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TYPICAL CROSS SECTION  
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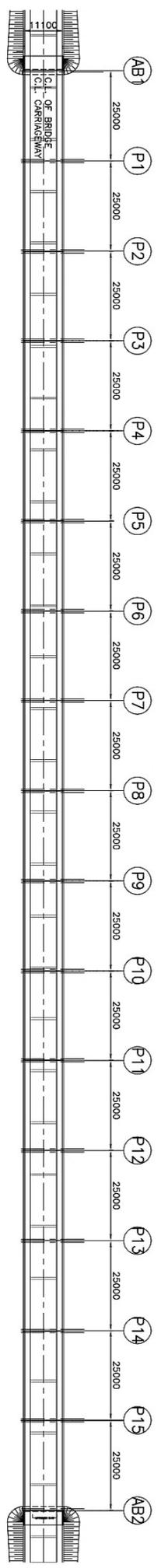
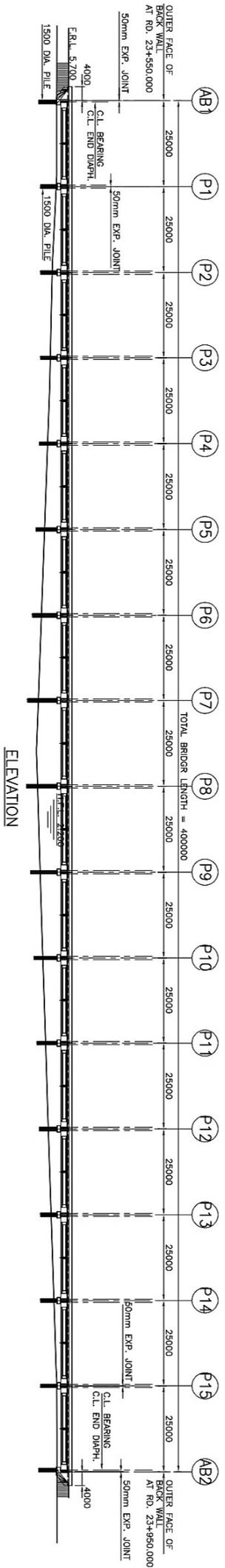
**TENDER  
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**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

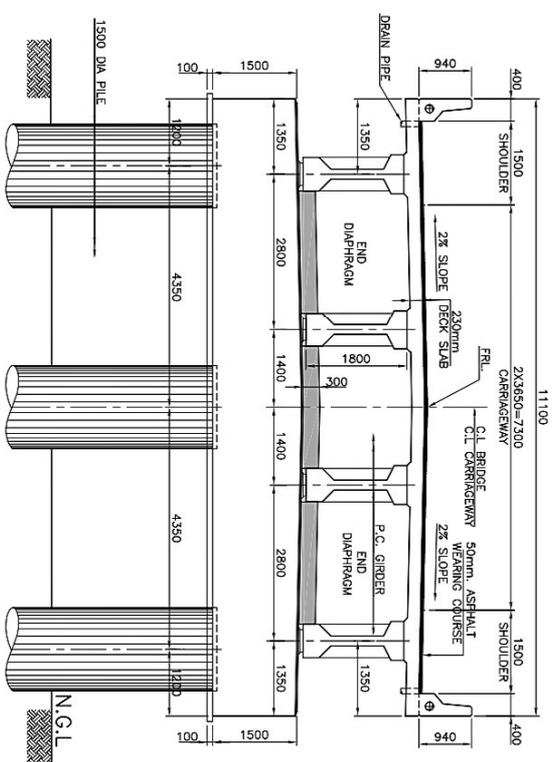
FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW  
PER RESULTS OF LOCATION OF EACH FOUNDATION  
INVESTIGATIONS

**NOTES:**  
1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.  
2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II- From Km. 11+000 To Km+7+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- BRIDGE NO. BR-12 AT RD. 19+300.000 GENERAL ARRANGEMENT	ED. NO.	DATE	DESCRIPTION	DRAWN: F.A.S	DRAWING NO. STR-BR-12-101
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							CHECKED: S.A	Edition
							DATE: DEC:2021	



PLAN  
(SHOWING SUPER STRUCTURE)



TYPICAL CROSS SECTION  
SCALE: 1:50

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THAITO  
(Works & Services Department)

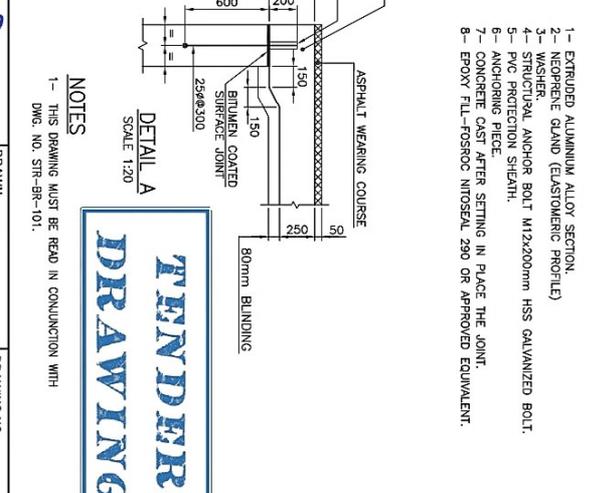
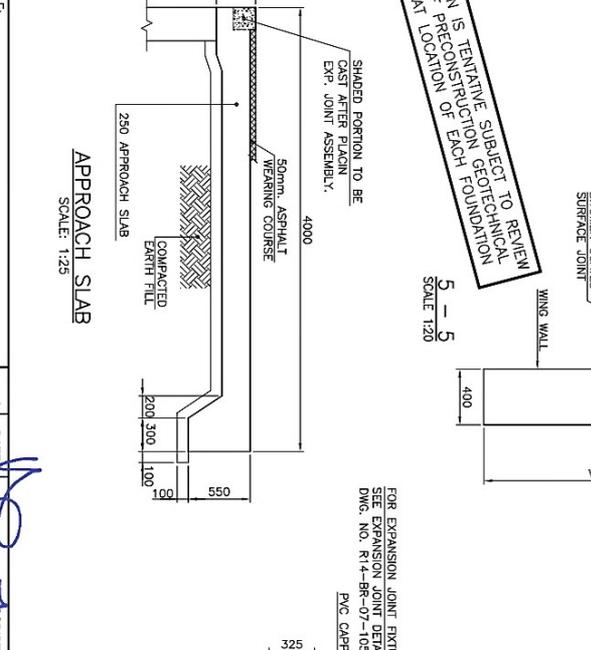
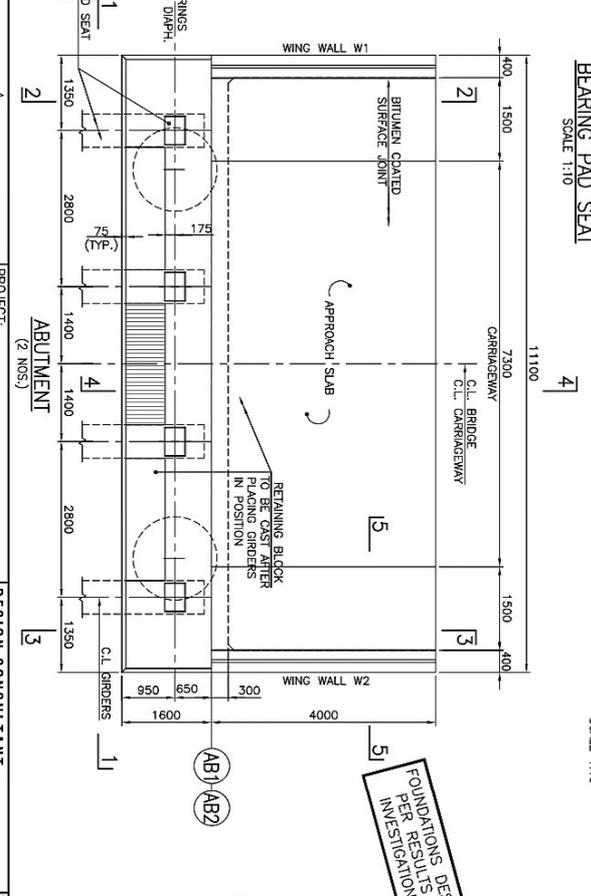
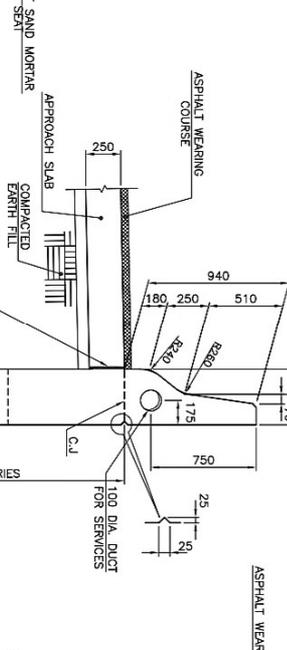
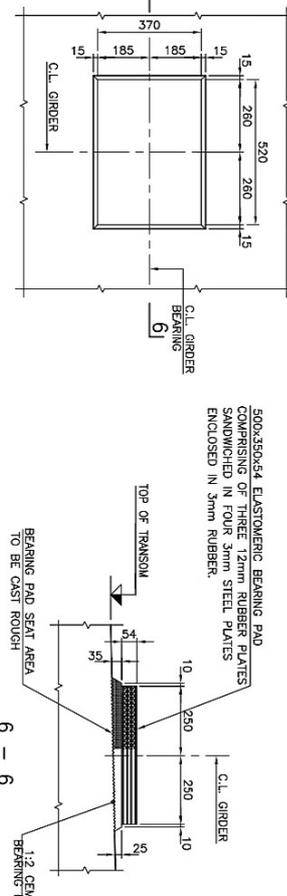
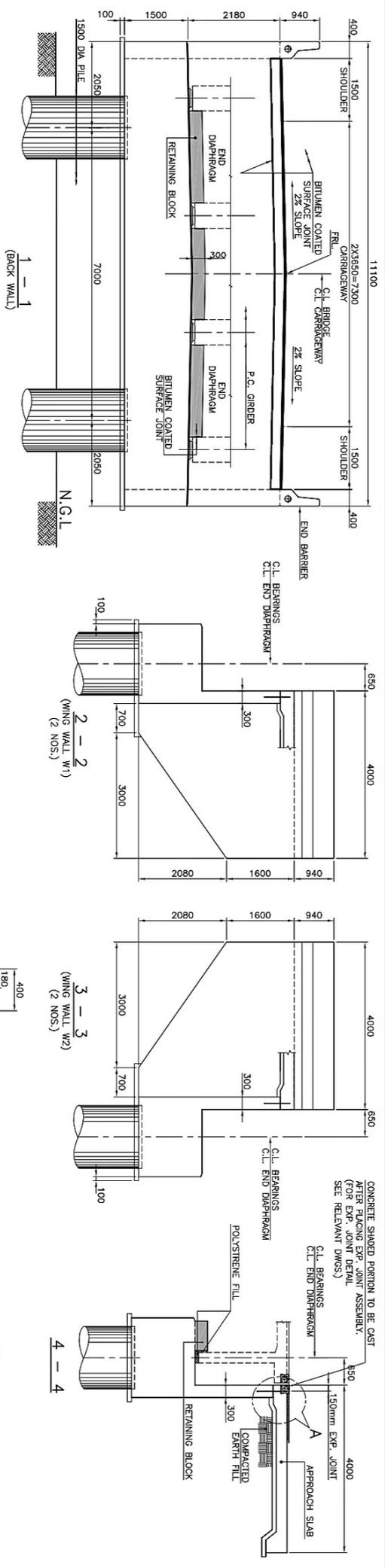
**TENDER**  
**DRAWING**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW  
FOR RESULTS OF PRECONSTRUCTION GEOTECHNICAL  
INVESTIGATIONS AT LOCATION OF EACH FOUNDATION

**NOTES:**  
1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.  
2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km47+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- BRIDGE NO. BR-13 AT RD. 23+750.000 GENERAL ARRANGEMENT	ED.NO.	DATE	DRAWN: F.A.S	DRAWING NO. STR-BR-13-101
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				CHECKED: S.A	DATE: DEC:2021		Edition





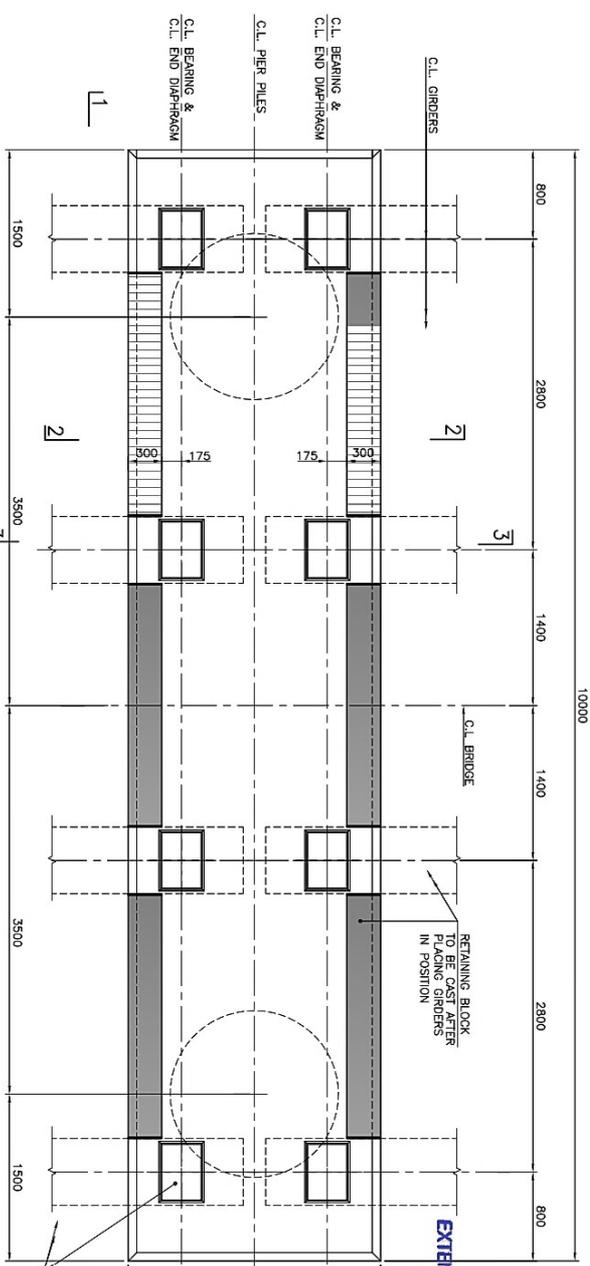
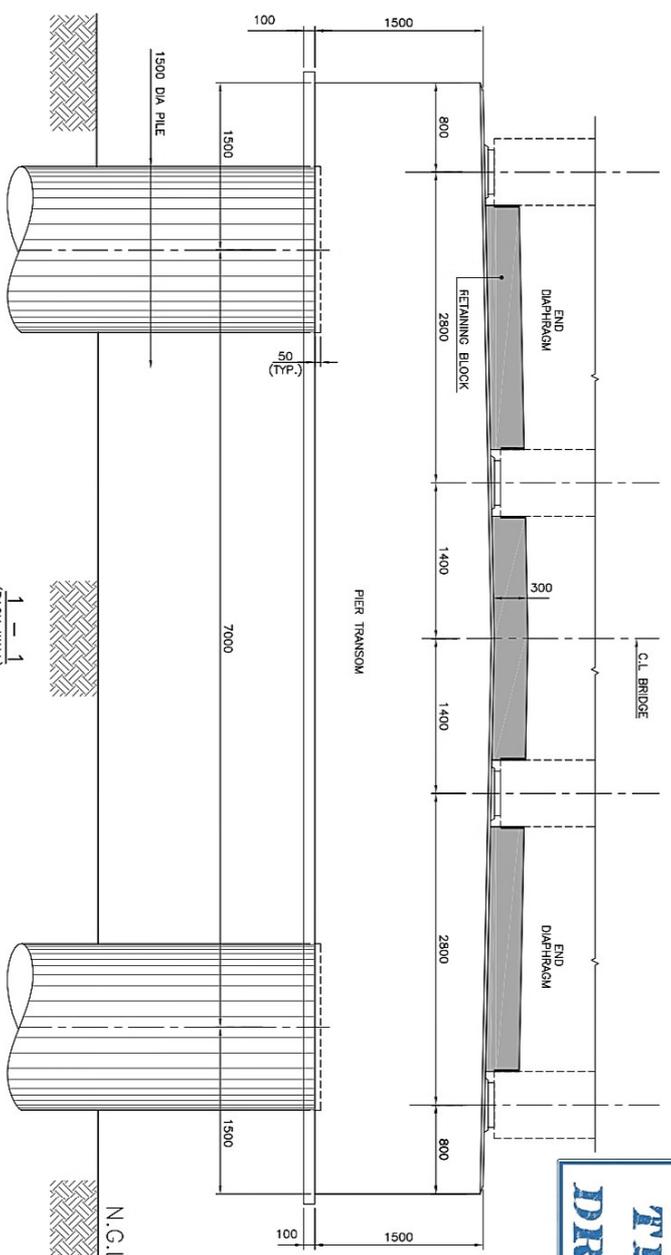
FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS AT LOCATION OF EACH FOUNDATION INVESTIGATION

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II- From Km 11.4000 To Km 17.4075 (36.00 Km)	DESIGN CONSULTANT ES&S Joint Venture (P) Ltd	TITLE:- TYPICAL ABUTMENT DETAILS
ED. NO.	DATE	PROJECT DIRECTOR SINDH COASTAL HIGHWAY, THATTO (Works & Services Department)	DRAWING NO. STR-BR-102
CHECKED: SA	DATE: DEC-2021		Scale: 1:50



NOTES  
1- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DWG. NO. STR-BR-101.

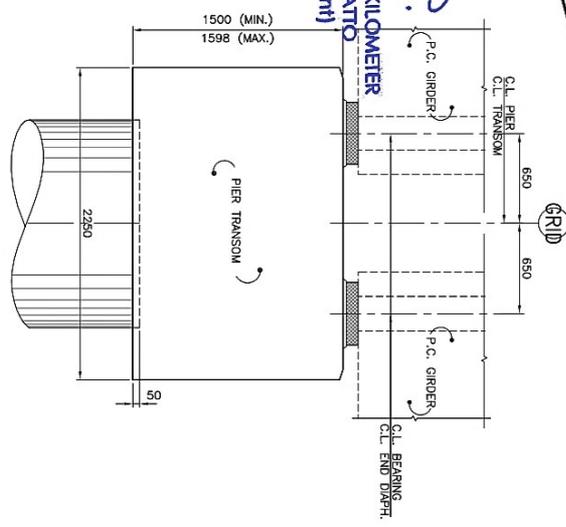
# TENDER DRAWING



PIER TRANSOM AT GRID P1

**PROJECT DIRECTOR / CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO (Works & Services Department)**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL INVESTIGATIONS AT LOCATION OF EACH FOUNDATION

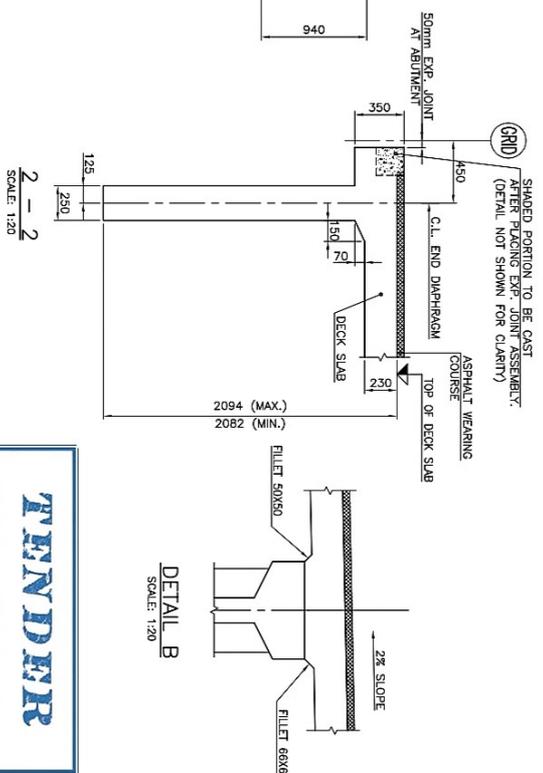
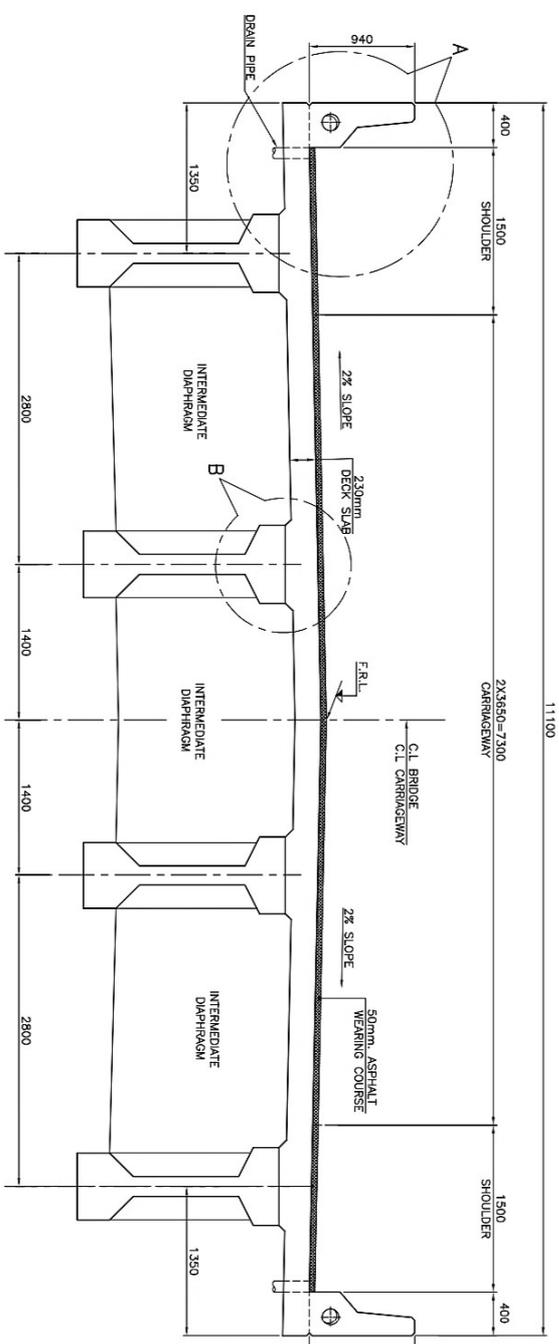


**NOTES:**  
1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH DWG. NO. STR-BR-101.

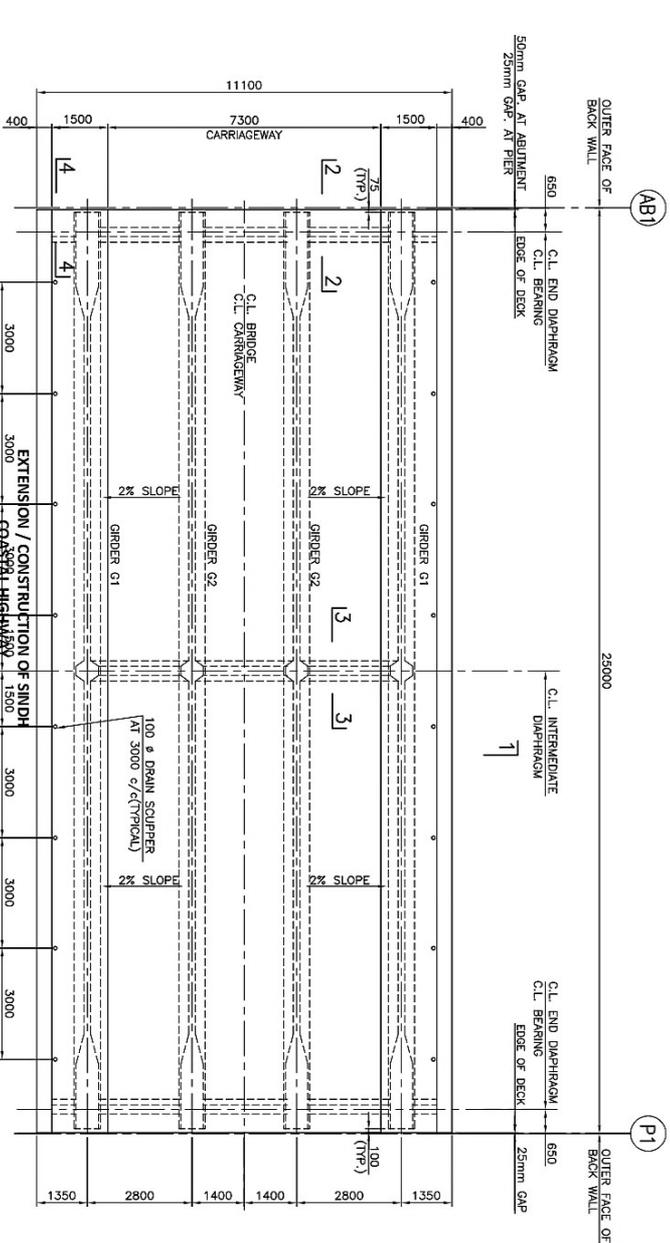
<p>CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH</p>	<p>PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+000 To Km 47+075 (36.00 Km)</p>	<p>DESIGN CONSULTANT  UJL</p>	
<p>TITLE:- TYPICAL PIER TRANSOM DETAILS</p>			
ED. NO.	DATE	DESCRIPTION	DRAWING NO.
			STR-BR-103
			DESIGNED BY: R.Y
			CHECKED BY: S.A
			DATE: DEC/2021
			Scale: 1:25
			Edition:



11100



**TENDER DRAWING**



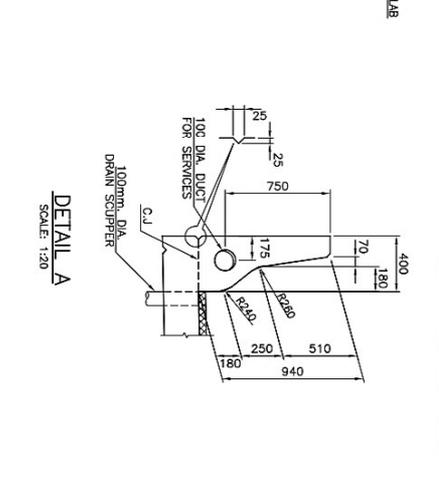
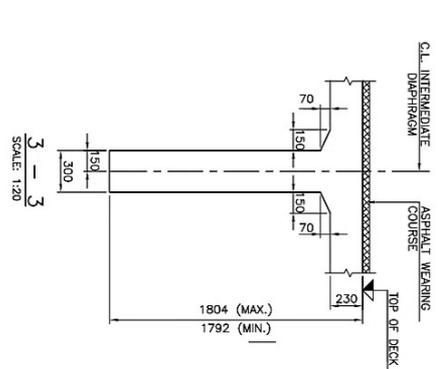
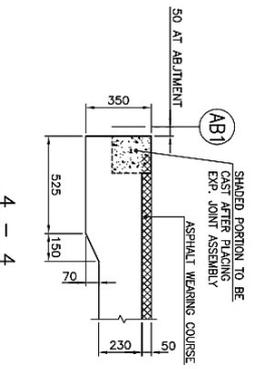
CLIENT:-  
WORKS AND SERVICES DEPARTMENT  
GOVERNMENT OF SINDH

PROJECT:-  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY  
Phase -II: From Km 11+000 To Km47+075 (36.00 Km) **DRY CK SLAB**

DESIGN CONSULTANT

TITLE:-  
TYPICAL DECK SLAB & DIAPHRAGMS DETAIL

ED.NO.	DATE	DESCRIPTION	DRAWN:	F.A.S	DRAWING NO.
4-4 <td>11/15 <td></td> <td>DESIGNED:</td> <td>RY</td> <td>STR-BR-105</td> </td>	11/15 <td></td> <td>DESIGNED:</td> <td>RY</td> <td>STR-BR-105</td>		DESIGNED:	RY	STR-BR-105
			CHECKED:	SA	Scale: 1:75
			DATE:	DEC:2021	Edition



**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THAITO  
(Works & Services Department)

*Handwritten signature*

NOTES:  
1- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH  
DWG. NO. STR-BR-101.  
2- FOR EXPANSION JOINT & BEARING PAD DETAILS REFER DWG. NO. STR-BR-102.

**TENDER  
DRAWING**

# BRIDGES

  
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

  
**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 3&6-KILOMETER  
 SINDH COASTAL HIGHWAY, THATTO  
 (Works & Services Department)

## LIST OF BRIDGES

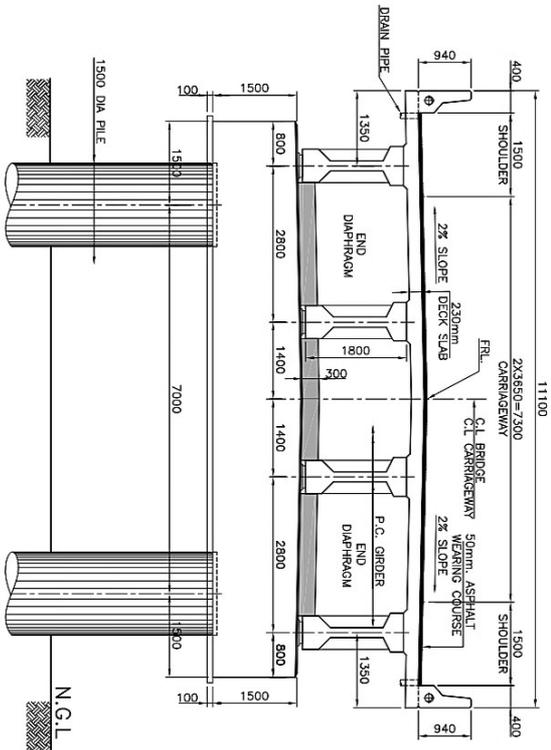
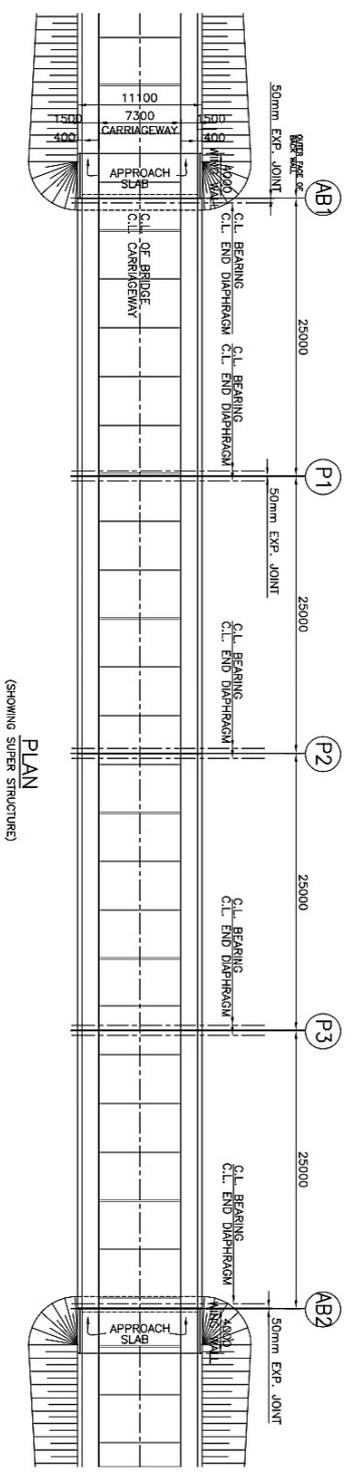
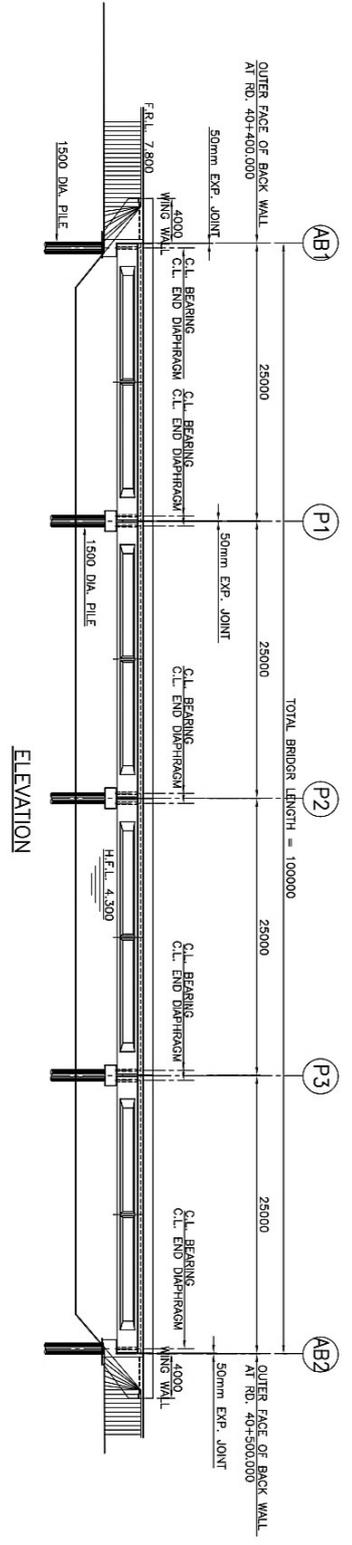
**TENDER  
DRAWING**

S.NO.	DWG. NO.	RD.	BRIDGE NO.	NO. OF SPAN x SPAN LENGTH (m)	TOTAL BRIDGE LENGTH (m)
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2	STR-BR-15-101	31+962.500	BRIDGE NO. BR-15	5 x 25	125
3	STR-BR-16-101	33+910.000	BRIDGE NO. BR-16	4 x 25	100
4	STR-BR-17-101	40+450.000	BRIDGE NO. BR-17	4 x 25	100
5	STR-BR-18-101	41+875.000	BRIDGE NO. BR-18	6 x 25	150

CLIENT:-   WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+000 To Km47+075 (36.00 Km)	DESIGN CONSULTANT   Joint Venture (JV)	TITLE:-  LIST OF BRIDGES
ED.NO.      DATE		DESCRIPTION	
DRAWN:      M.A		DRAWING NO. STR-BR-LD-01	
DESIGNED:      R.Y		Scale:- 1:1	
CHECKED:      S.A		Edition	
DATE:      DEC:2021			







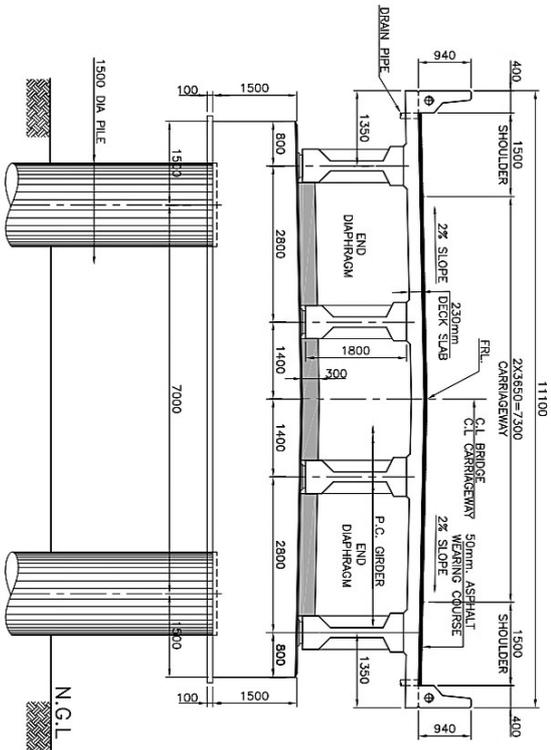
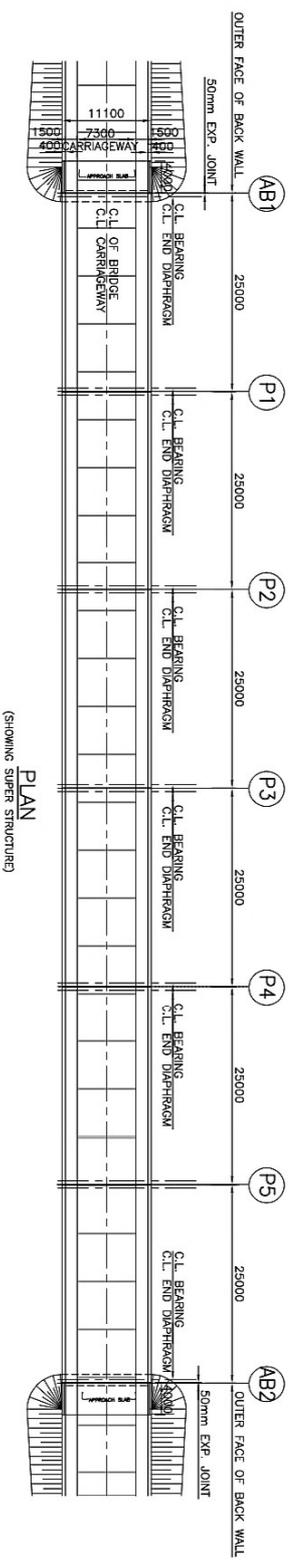
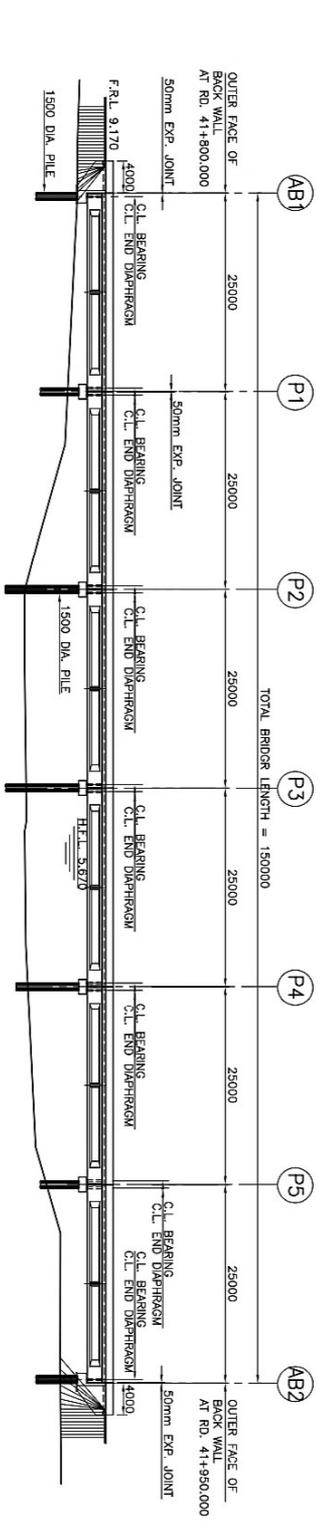
**PROJECT DIRECTOR / CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO (Works & Services Department)**

**TENDER DRAWING**

**FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL INVESTIGATIONS AT LOCATION OF EACH FOUNDATION**

**NOTES:**  
 1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.  
 2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km+7+4075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- BRIDGE NO. BR-17 AT RD. 40+450.000 GENERAL ARRANGEMENT	ED.NO.	DATE	DESCRIPTION	DRAWN: FAS	DRAWING NO. STR-BR-17-101
				CHECKED: SA	DATE: DEC:2021		DESIGNED: RY	



TYPICAL CROSS SECTION  
SCALE: 1:50

**PROJECT DIRECTOR OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO (Works & Services Department)**

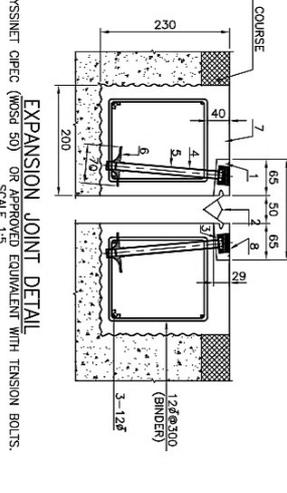
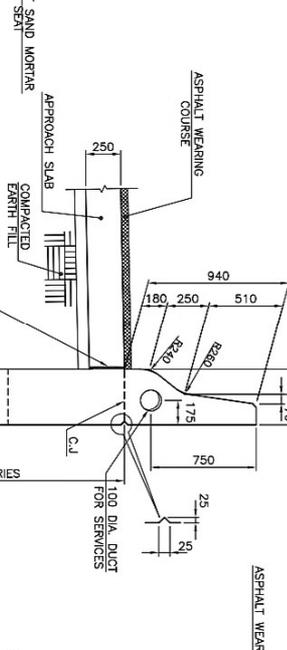
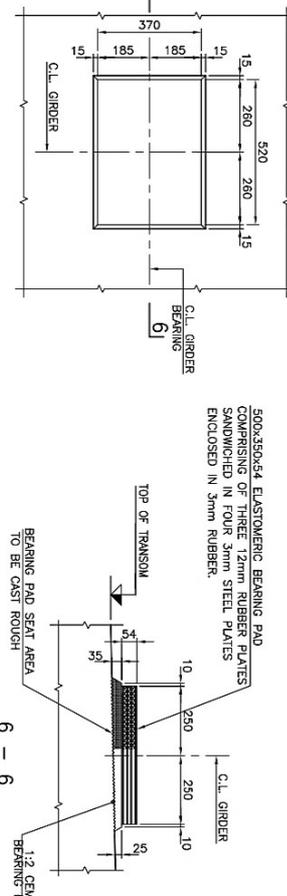
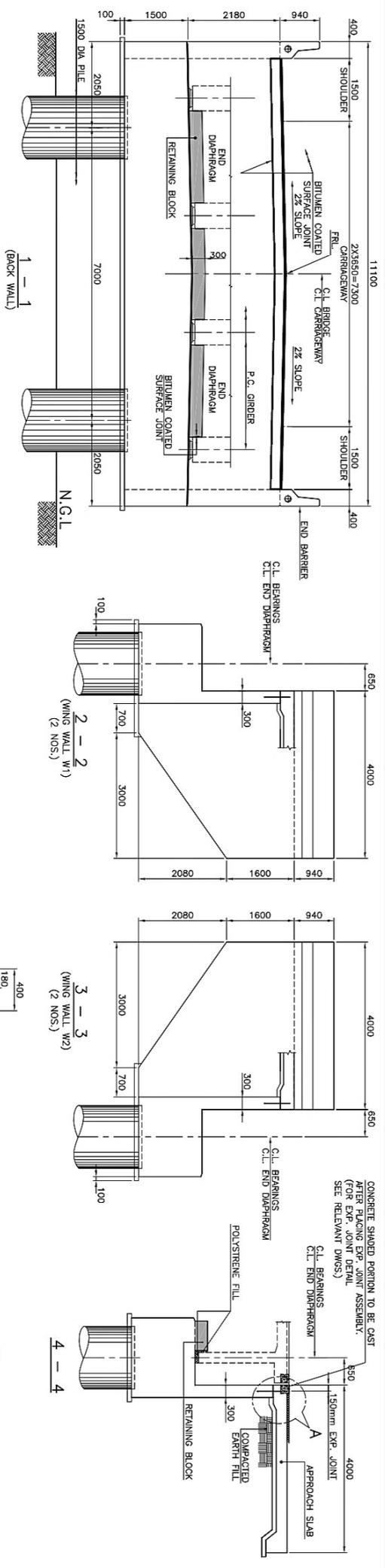
**TENDER DRAWING**

FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL INVESTIGATIONS AT LOCATION OF EACH FOUNDATION

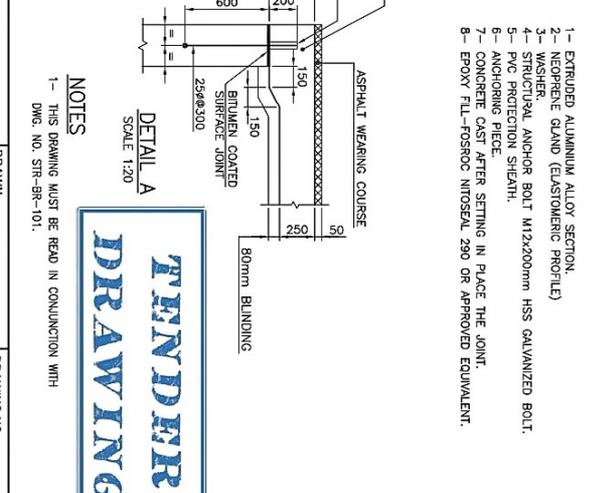
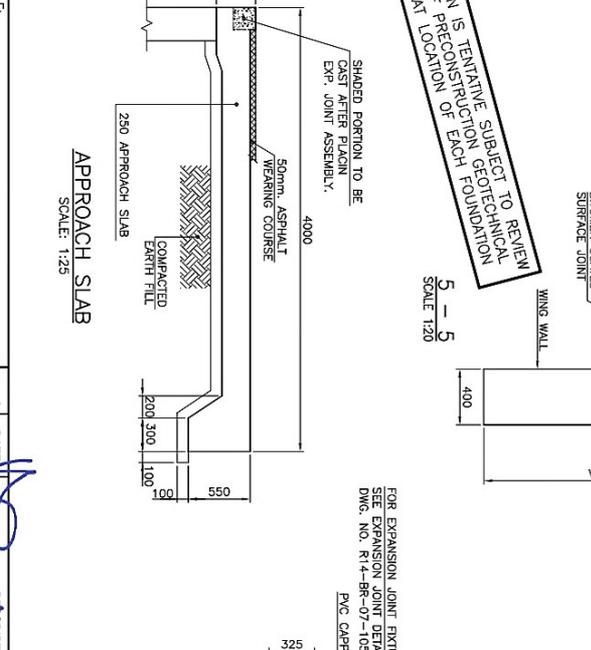
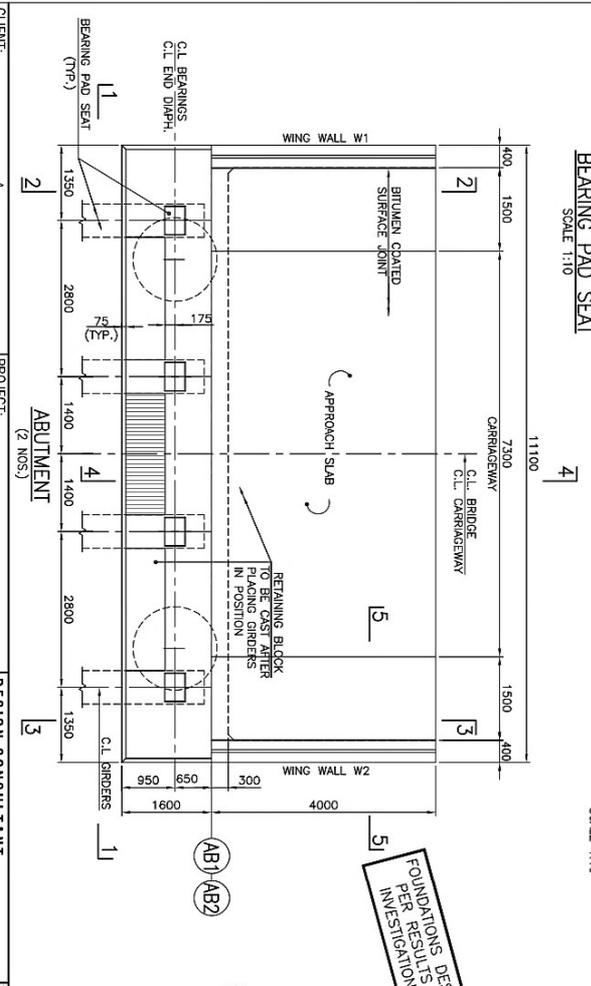
**NOTES:**

- 1 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH RELEVANT HIGHWAYS DWGS.
- 2 - FOR GENERAL NOTES REFER DWG. NO. STR-BR-GN-01.

CLIENT:-	PROJECT:-	DESIGN CONSULTANT	TITLE:-	ED.NO.	DATE	DESCRIPTION	DRAWN:-	DRAWING NO.
WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km47+075 (36.00 Km)		BRIDGE NO. BR-18 AT RD. 41 + 875.000 GENERAL ARRANGEMENT				F.A.S	STR-BR-18-101
							DESIGNED:- R.Y	Scale:- 1:350
							CHECKED:- S.A	Edition
							DATE:- DEC:2021	



FOUNDATIONS DESIGN IS TENTATIVE SUBJECT TO REVIEW  
 PER RESULTS OF PRECONSTRUCTION GEOTECHNICAL  
 INVESTIGATIONS AT LOCATION OF EACH FOUNDATION



CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- <b>EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY</b> Phase -II: From Km 11+000 To Km 17+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- <b>TYPICAL ABUTMENT DETAILS</b>
ED. NO. DATE PROJECT DIRECTOR 	DRAWN: F.A.S DESIGNED: R.Y CHECKED: S.A DATE: DEC-2021	DRAWING NO. STR-BR-102 Scale: 1:50 Edition	

NOTES  
 1- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DWG. NO. STR-BR-101.

TENDER DRAWING

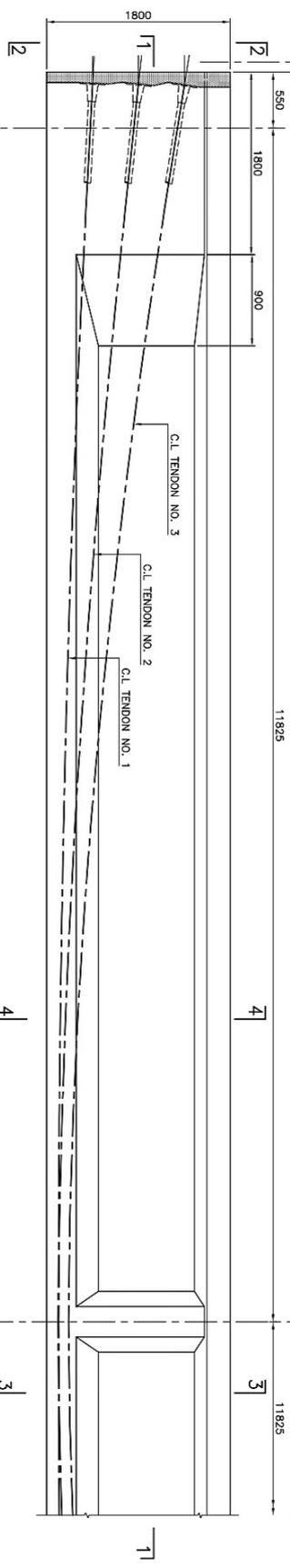




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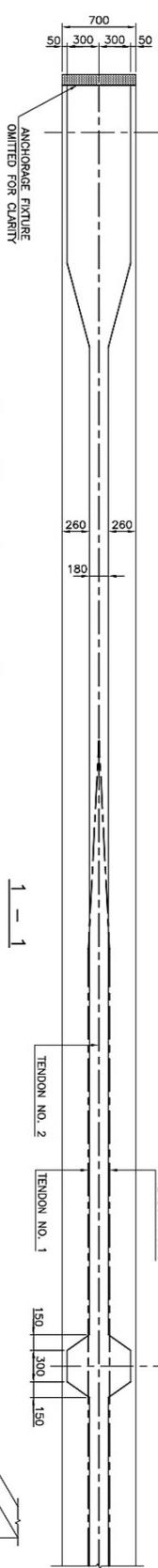


C.L. BEARING  
C.L. END DIAPHRAGM

HALF ELEVATION OF P.C GIRDER

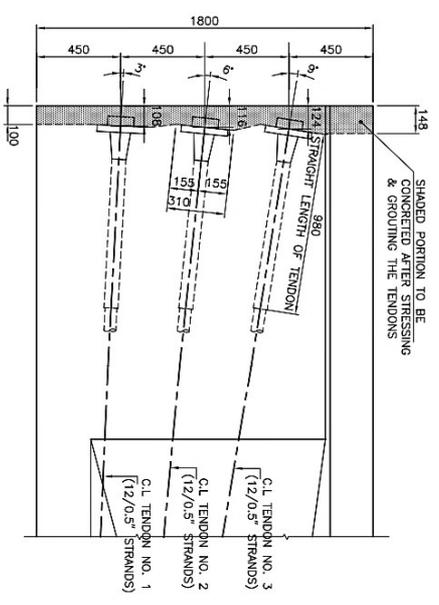
C.L. INTERMEDIATE  
DIAPHRAGM

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 36-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATO**  
**(Works & Services Department)**

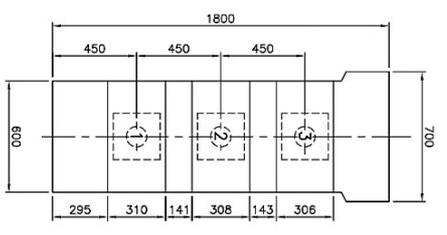


ANCHORAGE FIXTURE  
OMITTED FOR CLARITY

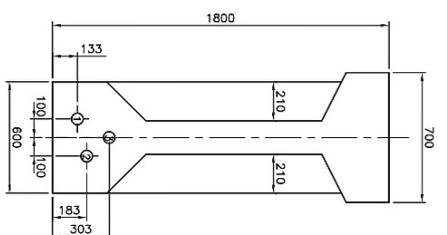
# TENDER DRAWING



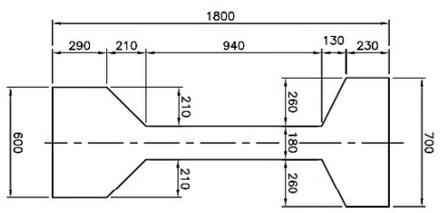
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SCALE 1:15



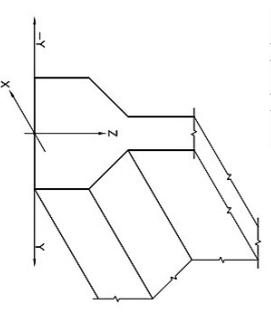
**2-2**  
SCALE 1:15



**3-3**  
SCALE 1:15



**4-4**  
SCALE 1:15



**REFERENCE CO-ORDINATES**  
(GIRDER AXIS AT MIDSPAN ARE 0.0.0)

**NOTES:**

- 1 - ALL STRANDS IN TENDON Nos. 1, 2 & 3 SHALL BE STRESSED FROM ONE END ONLY.
- 2 - ALL STRANDS IN TENDONS SHALL BE STRESSED TO A MAX. LOAD OF 147 KN EACH AND LOCKED.
- 3 - THE ANCHORAGE POCKET DETAILS SHOULD BE CHECKED BY THE CONTRACTOR FOR COMPATIBILITY WITH JACK PROPOSED TO BE USED BY HIM.
- 4 - THE TOTAL EXTENSION GIVEN IN THE TABLE ARE CALCULATED ON THE FOLLOWING BASIS:  
 E<sub>m</sub> MODULUS OF ELASTICITY OF STEEL = 2065 N/sqmm  
 JACK OVER LENGTH BEYOND FACE OF ANCHORAGE = 300 mm
- 5 - THE PRECAST GIRDERS SHALL BE PLACED IN SPANS BY APPROVED MEANS TO ENSURE THEIR PLACEMENT WITHOUT DAMAGE AND ACCIDENT. GIRDER SHALL BE PLACED AT CORRECT POSITIONS AS SHOWN ON THE DRAWINGS AND TEMPORARILY BRACED LATERALLY UNTIL DIAPHRAGMS AND DECK SLABS ARE CAST.
- 6 - THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS OF:  
 (a) FORMWORK, (b) STEEL TUBES, & (c) ANCHOR POCKET DETAILS.
- 7 - CONTRACTOR SHALL PROPOSE LIFTING ARRANGEMENT OF THE GIRDER FOR APPROVAL BY THE ENGINEER.

CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- <b>EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY</b> Phase - II: From Km 11+000 To Km47+075 (36.00 Km)	DESIGN CONSULTANT  <b>AAJ</b>	TITLE:- <b>TYPICAL P.C. GIRDER DETAILS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ED.NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRAWN:</th> <th>DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>F.A.S</td> <td>STR-BR-104</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>DESIGNED: R.Y</td> <td>Scale:- 1:25</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>CHECKED: S.A</td> <td>Edition</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>DATE: DEC:2021</td> <td> </td> </tr> </tbody> </table>	ED.NO.	DATE	DESCRIPTION	DRAWN:	DRAWING NO.				F.A.S	STR-BR-104				DESIGNED: R.Y	Scale:- 1:25				CHECKED: S.A	Edition				DATE: DEC:2021	
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			DESIGNED: R.Y	Scale:- 1:25																									
			CHECKED: S.A	Edition																									
			DATE: DEC:2021																										



**TENDER  
DRAWING**

# RCC BOX CULVERTS



**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

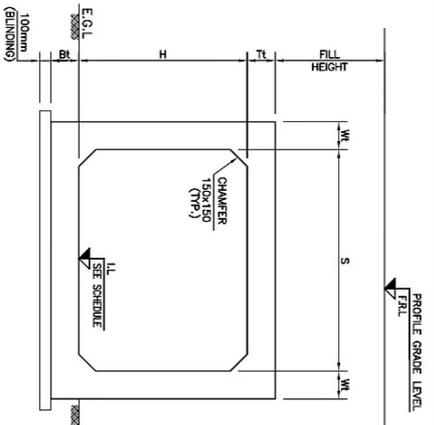
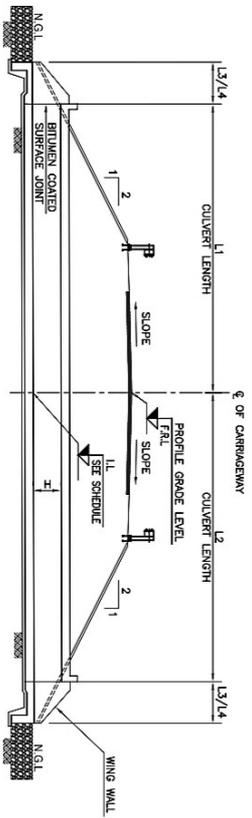
**LIST OF CULVERTS**

S.NO.	RD.	CULVERT NO.	SIZE		
			NO. OF CELLS	WIDTH (m)	HEIGHT (m)
1	11 + 795	C-22	4	2	3
2	11 + 840	C-23	4	2	3
3	12 + 010	C-24	2	2	3
4	12 + 180	C-25	2	2	3
6	12 + 446	C-26	3	3	3
8	12 + 600	C-27	3	3	3
9	13 + 000	C-28	2	3	3
10	13 + 206	C-29	2	3	3
11	13 + 760	C-30	2	3	3
12	13 + 960	C-31	2	3	3
13	14 + 050	C-32	3	3	3
15	14 + 100	C-33	2	3	3
16	14 + 280	C-34	3	3	3
17	15 + 420	C-35	1	3	3
18	16 + 120	C-36	3	3	3
19	16 + 370	C-37	1	3	3
21	16 + 650	C-38	1	3	3
22	16 + 770	C-39	3	3	3
23	17 + 000	C-40	3	3	3
25	17 + 080	C-41	2	3	3
26	17 + 430	C-42	3	3	3
30	18 + 090	C-43	3	3	3
31	18 + 380	C-44	3	3	3
32	18 + 565	C-45	3	3	3
33	18 + 630	C-46	3	3	3
35	18 + 845	C-47	2	3	3
36	18 + 990	C-48	3	3	3
37	19 + 130	C-49	1	3	3
38	19 + 230	C-50	1	3	3
39	19 + 650	C-51	1	3	3
40	19 + 750	C-52	2	3	3
41	20 + 175	C-53	1	3	3
42	20 + 260	C-54	3	3	3
43	20 + 430	C-55	1	3	3
45	20 + 650	C-56	1	3	3
46	21 + 100	C-57	1	3	3
47	21 + 300	C-58	1	3	3
48	21 + 550	C-59	2	3	3
49	22 + 000	C-60	4	3	3
50	22 + 390	C-61	3	3	3
51	22 + 540	C-62	1	2	3
52	22 + 620	C-63	1	3	3
53	22 + 810	C-64	1	3	3
54	23 + 120	C-65	1	2	3
55	24 + 760	C-66	4	3	3
56	25 + 125	C-67	3	3	3
57	25 + 640	C-68	1	3	3
58	25 + 820	C-69	2	3	3

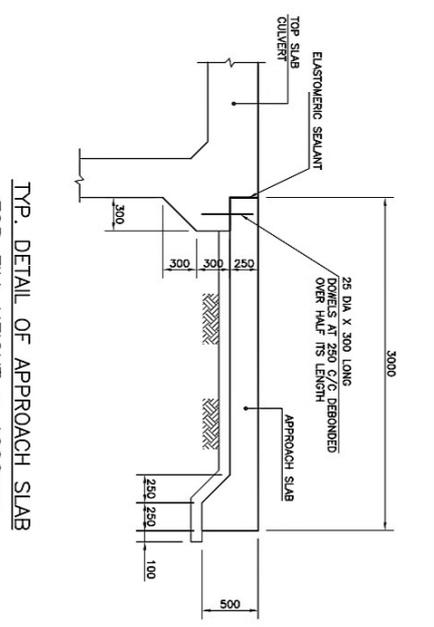
**TENDER  
DRAWING**

*Mustafa*  
**PROJECT DIRECTOR**  
 EXTENSION / CONSTRUCTION OF 36-KILOMETER  
 SINDH COASTAL HIGHWAY, THATTO  
 (Works & Services Department)

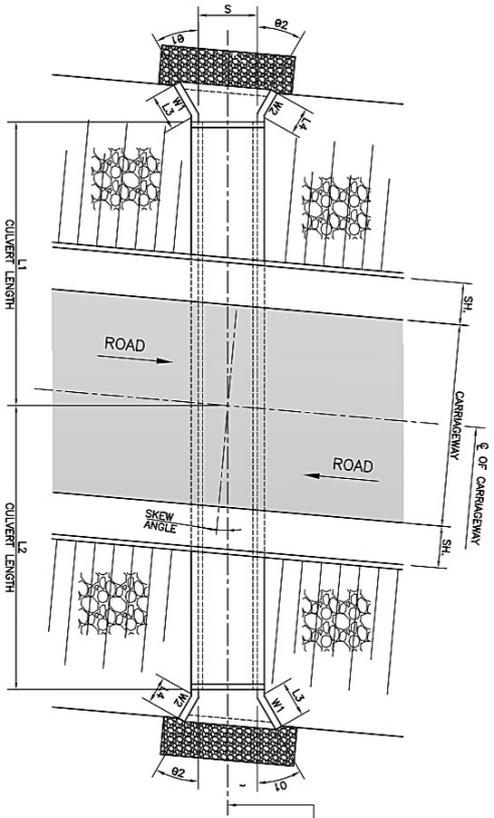
CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II- From Km 11+000 To Km47+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- LIST OF RCC BOX CULVERTS	ED.NO.	DATE	DESCRIPTION	DRAWN:- F.A.S	DRAWING NO. STR-SC-LD-01
				DESIGNED:- R.Y	CHECKED:- S.A	DATE: DEC:2021	Scale:- 1:1	Edition



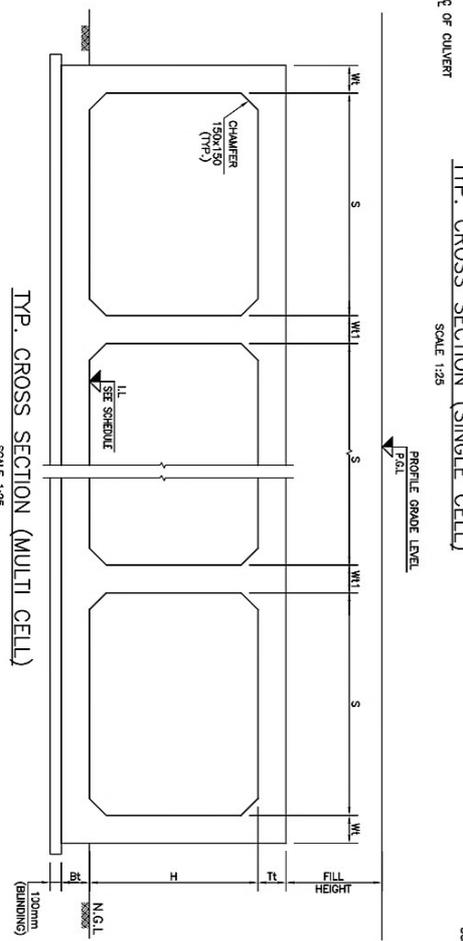
TYP. CROSS SECTION (SINGLE CELL)  
SCALE 1:25



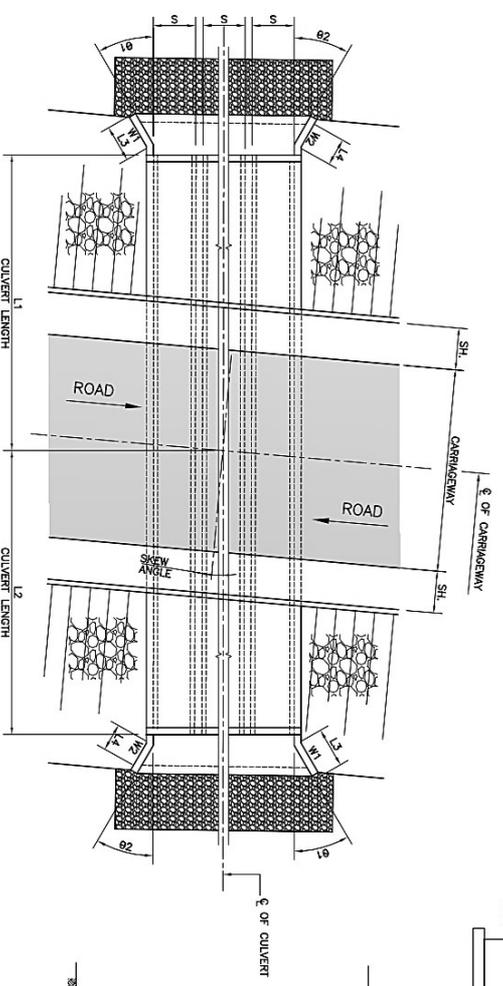
TYP. DETAIL OF APPROACH SLAB  
FOR FILL HEIGHT < 1000mm  
SCALE 1:25



PLAN (SINGLE CELL CULVERT)



TYP. CROSS SECTION (MULTI CELL)  
SCALE 1:25



PLAN (MULTI CELL CULVERT)

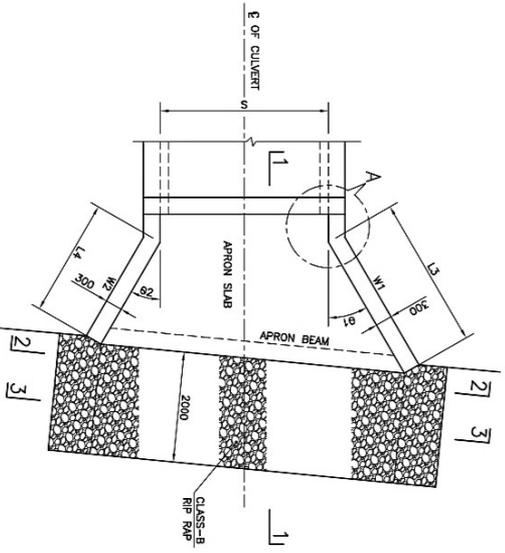
TYP. CROSS SECTION (DOUBLE CELL)  
SCALE 1:25

- NOTES:-
- 1 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELIANT HIGHWAY DRAWING.
  - 2 - FOR ROAD X-SECTION AND LOCATION REFER RELEVANT ROADWAY PLAN AND PROFILE DRAWINGS.

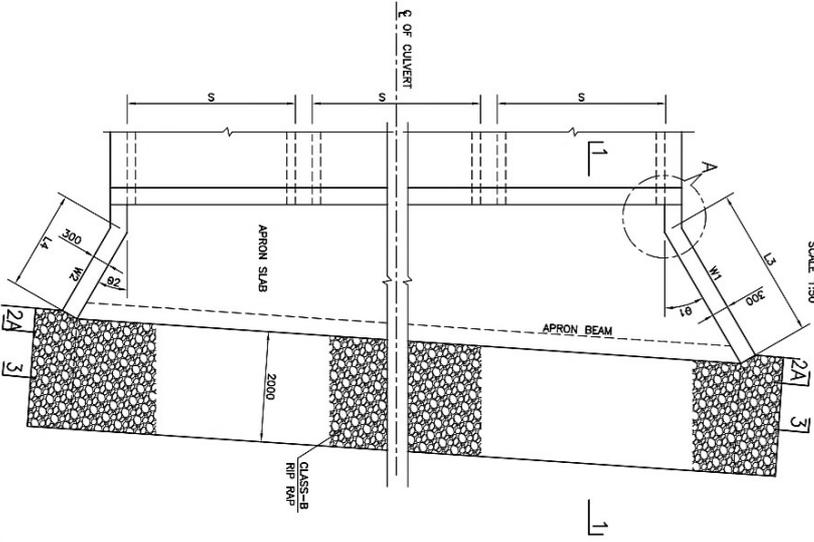
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THALITO  
(Works & Services Department)

**TENDER DRAWING**

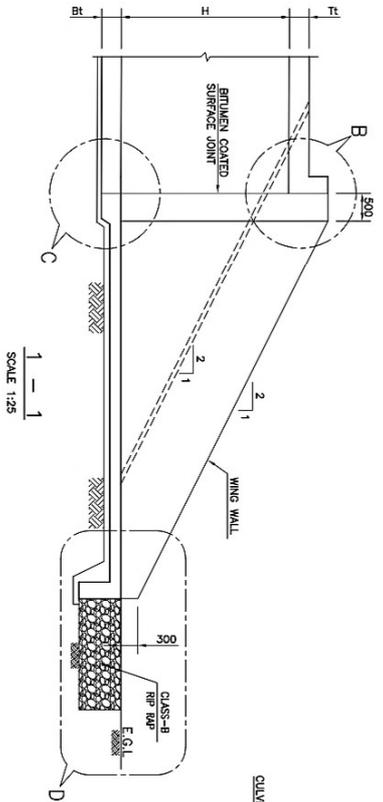
CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase-II: From Km 11.4000 To Km 47.4075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- RCC BOX CULVERT GENERAL ARRANGEMENT	ED. NO.	DATE	DESCRIPTION	DRAWN:	F.A.S	DRAWING NO. STR-30C-101
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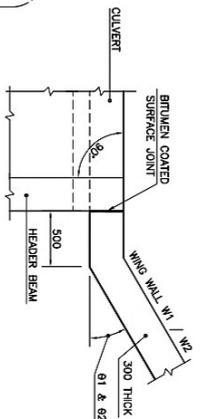
PLAN OF APRON SLAB (SINGLE CELL)  
SCALE 1:50



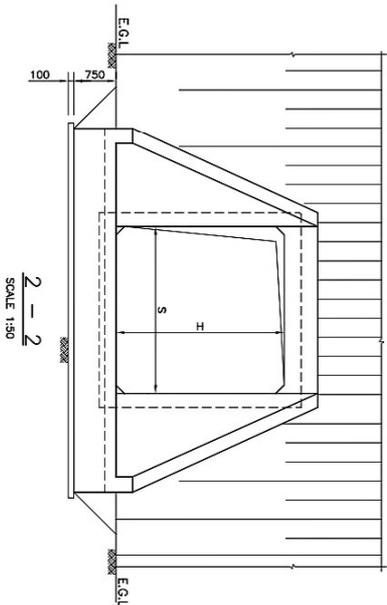
TYP. PLAN OF APRON SLAB (MULTI CELL CULVERT)  
SCALE 1:50



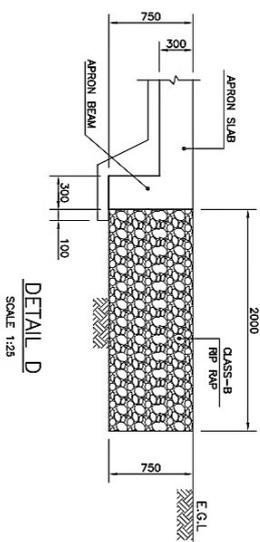
DETAIL A  
SCALE 1:25



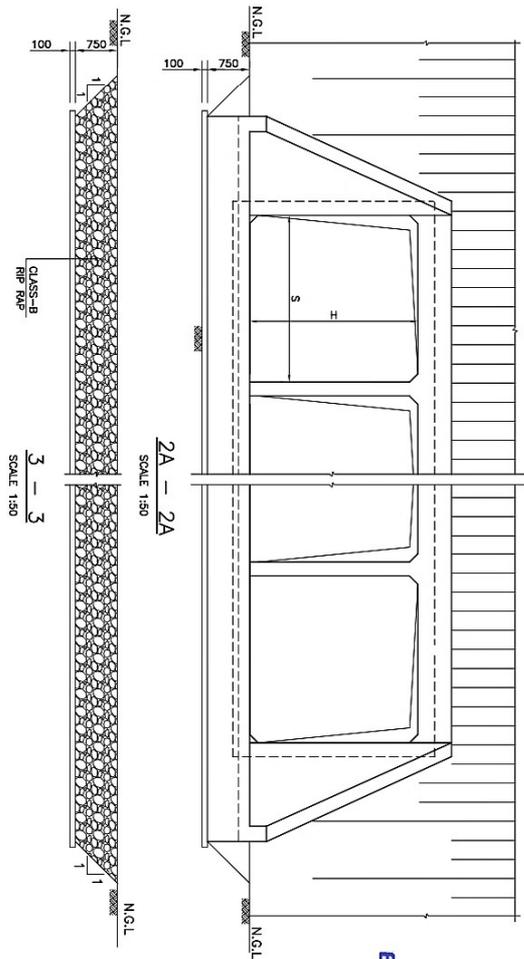
DETAIL B  
SCALE 1:25



DETAIL C  
SCALE 1:25



DETAIL D  
SCALE 1:25



2A-2A  
SCALE 1:50

3-3  
SCALE 1:50

NOTES:-  
1- THIS DRAWING MUST BE REFO. IN CONJUNCTION WITH  
DWG. NO. STR-BC-101.

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

**TENDER  
DRAWING**

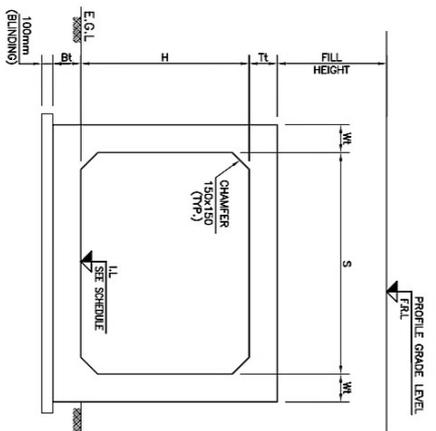
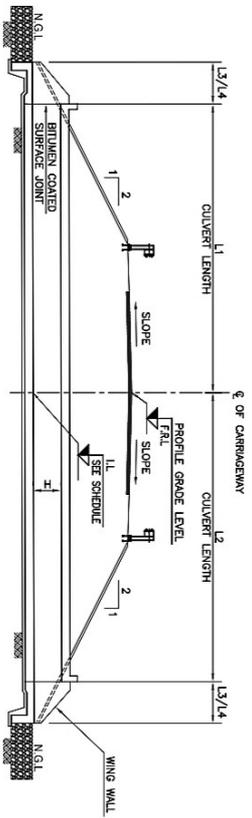
CLIENT:- WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase -II: From Km 11+000 To Km17+075 (36.00 Km)	DESIGN CONSULTANT 	TITLE:- RCC BOX CULVERT DETAILS OF APRON SLAB & WING WALLS	ED. NO.	DATE	DESCRIPTION	DRAWN: F.A.S	DRAWING NO. STR-BC-102
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**TENDER  
DRAWING**

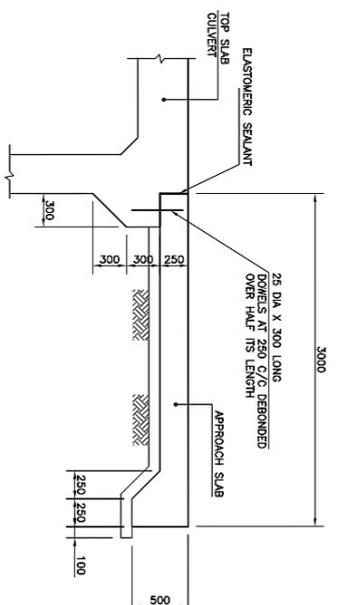
# RCC BOX CULVERTS

  
**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 3.6-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)

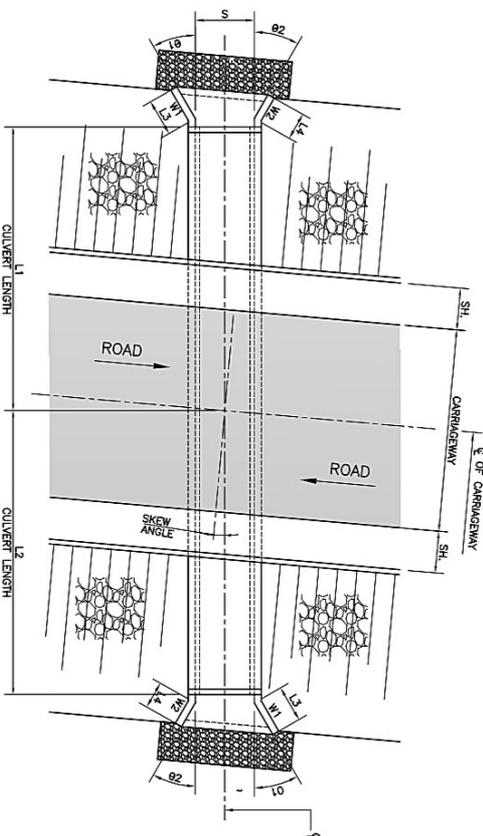




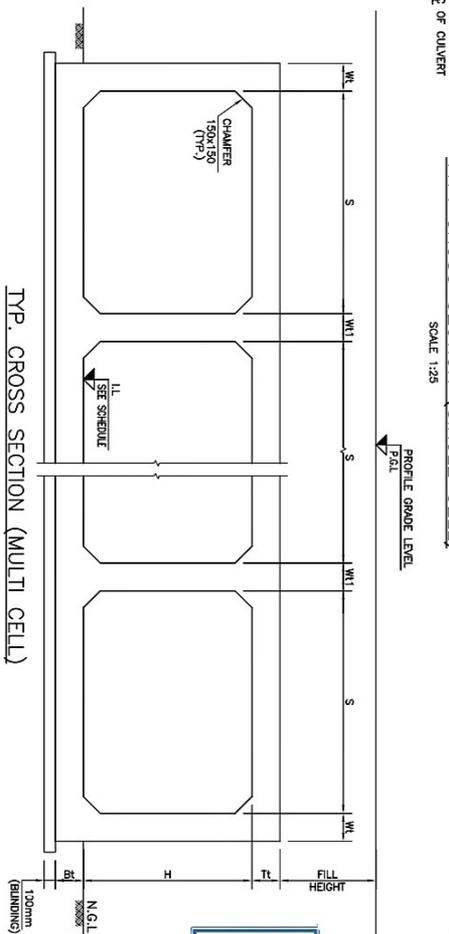
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SCALE 1:25



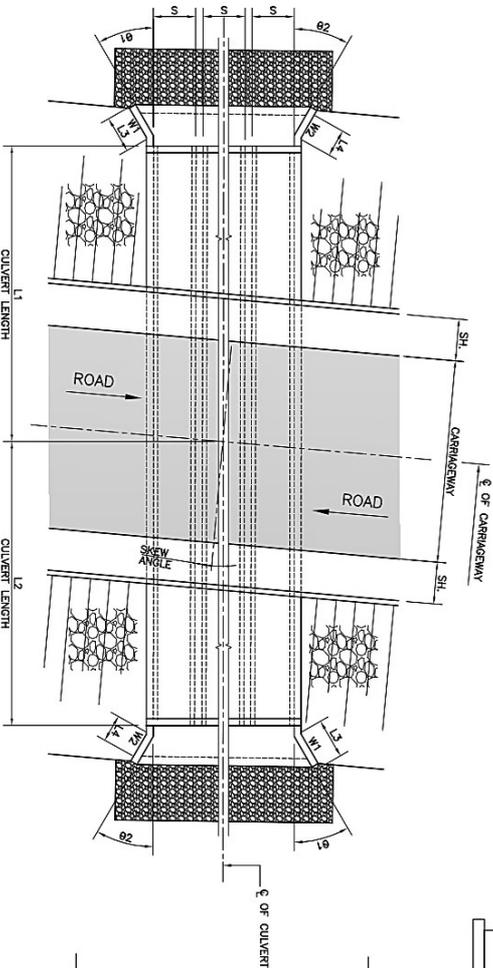
TYP. DETAIL OF APPROACH SLAB  
FOR FILL HEIGHT < 1000mm  
SCALE 1:25



PLAN (SINGLE CELL CULVERT)

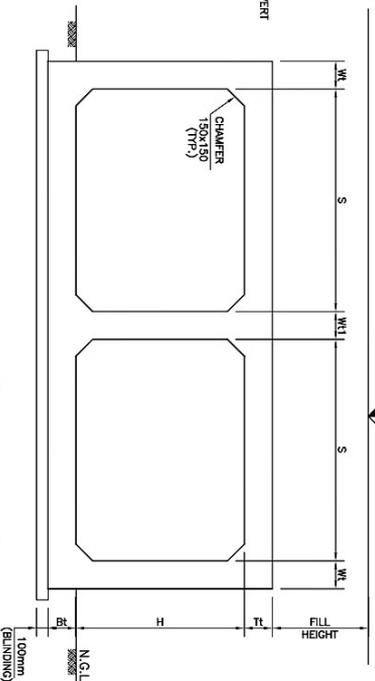


TYP. CROSS SECTION (MULTI CELL)  
SCALE 1:25



PLAN (MULTI CELL CULVERT)

TYP. CROSS SECTION (DOUBLE CELL)  
SCALE 1:25

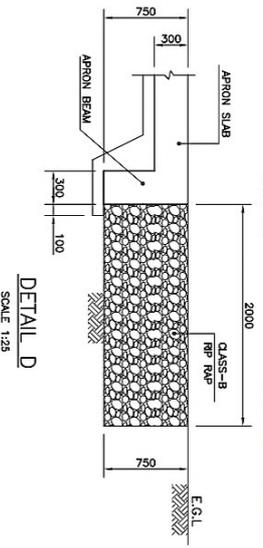
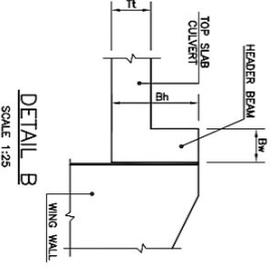
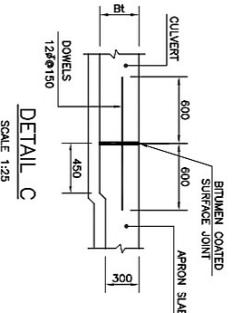
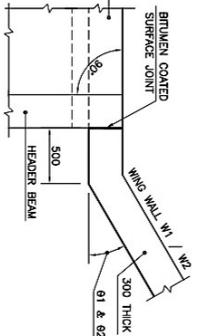
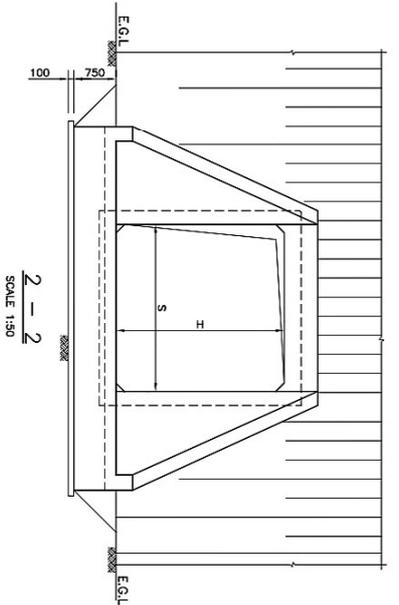
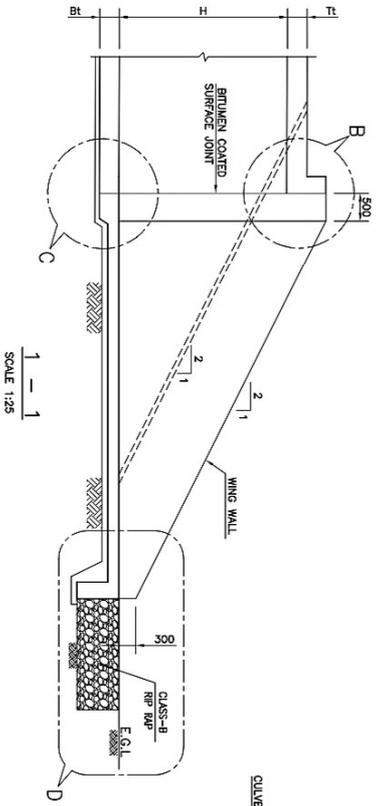
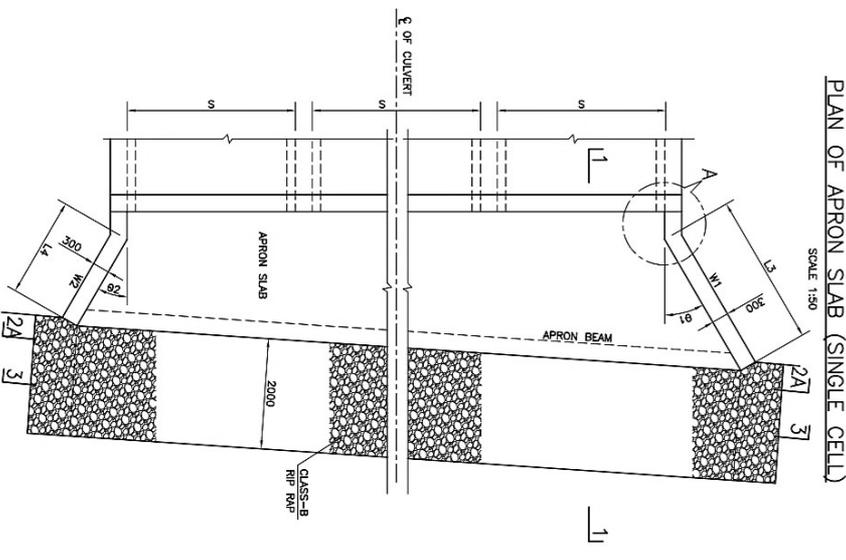
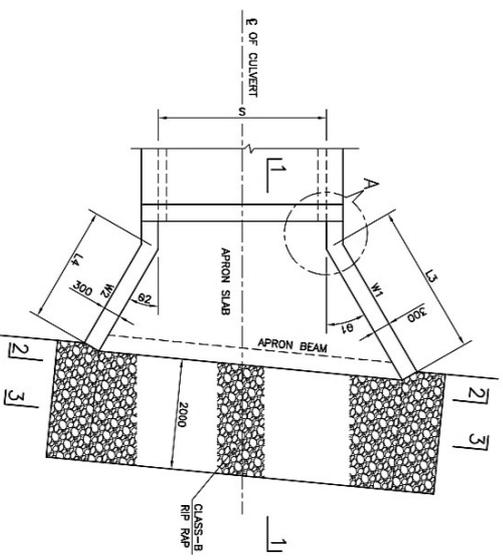


- NOTES:-
- 1 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY DRAWING.
  - 2 - FOR ROAD X-SECTION AND LOCATION REFER RELEVANT ROADWAY PLAN AND PROFILE DRAWINGS.

**PROJECT DIRECTOR**  
**CONSTRUCTION OF 3.6-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

**TENDER**  
**DRAWING**

CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+000 To Km47+075 (36.00 Km)	DESIGN CONSULTANT  Esriil Esriil Kutchera Divi AAI	TITLE:- RCC BOX CULVERT GENERAL ARRANGEMENT	ED. NO.	DATE	DESCRIPTION	DRAWN:	F.A.S	DRAWING NO. STR-30C-101
				CHECKED:	S.A		DESIGNED:	R.Y	



**TENDER DRAWING**

TYP. PLAN OF APRON SLAB (MULTI CELL CULVERT)

DESIGN CONSULTANT

TITLE-  
RCC BOX CULVERT  
DETAILS OF APRON SLAB & WING WALLS

ED. NO.	DATE	DESCRIPTION	DRAWN:	DRAWING NO.
			F.A.S	STR-BC-102
			DESIGNED: R.Y	Scale: 1:100
			CHECKED: S.A	Edition
			DATE: DEC:2021	

NOTES:-  
1- THIS DRAWING MUST BE READ IN CONJUNCTION WITH  
DWG. NO. STR-BC-101.

**PROJECT DIRECTOR**  
**EXTENSION / CONSTRUCTION OF 34-KILOMETER**  
**SINDH COASTAL HIGHWAY, THATTO**  
**(Works & Services Department)**

CLIENT:-  WORKS AND SERVICES DEPARTMENT GOVERNMENT OF SINDH	PROJECT:- EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY Phase - II: From Km 11+000 To Km 47+075 (36.00 Km)	DESIGN CONSULTANT  RCC BOX CULVERT DETAILS OF APRON SLAB & WING WALLS
--	--	--

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**



**TENDER / BIDDING DOCUMENT**  
(SINGLE STAGE – TWO ENVELOPES (SSTE) BIDDING PROCEDURE)

**FINANCIAL BID**

**EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY**  
**Phase-II: From Km 11+000 to Km 47+075 (36.00 Km)**

<b>NIT No. Dated:</b>	-	
<b>Date of Issue up to:</b>	-	
<b>Date of Opening:</b>	-	
<b>Tender issued to:</b>	-	
<b>DR No. Dated:</b>	-	
<b>Amount:</b>	-	Rs: 5,000/-

**OFFICE OF THE PROJECT DIRECTOR**  
Extension / Construction of 36 – Kilo meter  
Sindh Coastal Highway, Thatto

February 2026

**PROJECT DIRECTOR**  
EXTENSION / CONSTRUCTION OF 36-KILOMETER  
SINDH COASTAL HIGHWAY, THATTO  
(Works & Services Department)



**FORM OF BID**

Bid Reference No. \_\_\_\_\_

**Construction for Sindh Coastal Highway, Phase - II  
From Km 11+000 to Km 47+075 (36.00 Km)**

**The Office of the Project Director,**  
Extension / Construction of 36 – Kilometer,  
Sindh Coastal Highway, Thatto,  
at 1st Floor Chief Engineer Highways Office,  
Shahbaz Building, Hyderabad

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. \_\_\_\_\_ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. \_\_\_\_\_  
(Rupees \_\_\_\_\_)  
or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this bid.
3. As security for due performance of the undertakings and obligations of this bid, we/I submit herewith a bid security in the amount of Rs. \_\_\_\_\_ (Rupees: \_\_\_\_\_) drawn in your favour or made payable to procuring agency and valid for a period of \_\_\_\_\_ days beginning from the date, bid is opened.
4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of 90 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. 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.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We undertake if our/my bid is accepted, to execute the Performance Security referred to in Clause 4.2 of Conditions of Contract for the due performance of the Contract.

**PROJECT DIRECTOR**



10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency. *(Please delete this in case of Bid form a single bidder)*

In the capacity of \_\_\_\_\_ duly authorized to sign Bids for and on behalf of  
 Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2026

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

\_\_\_\_\_  
 (Name of Bidder in Block Capitals)  
 (Seal)

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Witness:

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

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Occupation: \_\_\_\_\_



**PROJECT DIRECTOR**



**PRICE ADJUSTMENT UNDER CLAUSE 70/13.8 OF CONDITIONS OF CONTRACT**

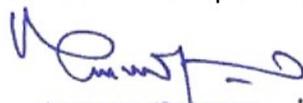
**A. Weight ages or coefficients are used for price adjustment.**

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

Index code	Index description	Source of index	Bidder's related currency amount	Weighting
(i)	Fixed Portion		Pak Rs.	0.633
(ii)	Local Labour (Skilled & Unskilled) With unskilled as representative items.	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.140
(iii)	Reinforcing Steel ½ diameter round bar is the representative item for all types of steel to be used in this project.	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.107
(iv)	HSD	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.	Pak Rs.	0.120
TOTAL				1.00

**Notes:**

- 1) Indices for “(ii)” to “(iv)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- 3) Fixed portion shown here is for typical road project, procuring agency has determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

  
**PROJECT DIRECTOR**



## BILL OF QUANTITIES

### A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract (in case of item not mentioned in Bill of Quantities).
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the contract include all costs of contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the contract. Furthermore, all duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids in case of ICB/NCB respectively, shall be included in the rates and prices and the total bid price submitted by the bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the works.
6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the bidding documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with sub-clause 13.5 of Part I, General Conditions of Contract.

**PROJECT DIRECTOR**



**BILL OF QUANTITIES**

**B. Work Items:**

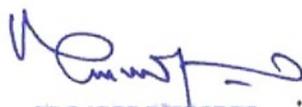
**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE (Rs. 31,052 million)  
SUMMARY**

<b>BILL No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT (PKR)</b>	<b>AMOUNT QUOTED BY CONTRACTOR (PKR)</b>
1, 2 & 3	Road Work	13,218,058,343	
4A	Pre-Stressed Bridges	4,876,430,869	
4B	Culverts	4,169,949,652	
5	Protection Work	7,896,096,018	
6	Ancillary Works	891,659,743	
<b>A</b>	<b>Bill Cost</b>	<b>31,052,194,625</b>	
	<b>Add: 5% SRB</b>		
<b>B</b>	<b>Grand Total</b>		

NOTE: Rates are Based on Draft NHA CSR 2025 (District Thatta)

**Amount in Words:**

**Signature / Stamp of Contractor: - \_\_\_\_\_**

  
**PROJECT DIRECTOR**



BD-3

Appendix-D to Bid

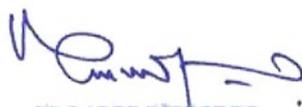
**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

<b>BILL-1, 2 &amp; 3: ROADWORKS</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
		<b>1. EARTHWORK</b>				
101	101	Clearing and Grubbing	SM	114,825	37.61	4,318,564
104	104	Compaction of Natural Ground	SM	114,825	38.56	4,427,648
SP -1	SP	Formation of Embankment with rock filling	CM	1,592,972	6,355.5	10,124,132,752
108c	108	Formation of Embankment from Borrow Excavation in common material	CM	1,506,522	647.75	975,849,897
		<b>2. SUBBASE AND BASE COURSES</b>				
206b	206	Water Bound Macadam Base with coarse Agg. Class B	CM	298,049	4,471.11	1,332,609,865
		<b>3. SURFACE COURSES</b>				
304bi	304	Double surface Treatment	SM	474,137	771.09	365,602,300
305b	305	Asphalt Concrete for Wearing Course "Class B"	CM	12,956	30,188.61	391,123,632
303b	303	Emulsified Asphalt for Bituminous Tack Coat	SM	271,248	73.71	19,993,685
<b>TOTAL FOR BILL-1, 2 &amp; 3:</b>						<b>13,218,058,343</b>
		Above / Below % _____				
<b>TOTAL FOR BILL-1, 2 &amp; 3 CARRIED FORWARD TO SUMMARY:</b>						

Note: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

  
**PROJECT DIRECTOR**



BD-4

Appendix-D to Bid

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

<b>BILL-4A: PRE-STRESSED BRIDGES</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
		<b>A. SUBSTRUCTURES</b>				
407g	407	Test piles of 1500 mm. dia. Including Boring and concrete class A3 including reinforcement.	M	715.00	139,380	99,656,700
407k	407	confirmatory boring including test reports	M	715.00	10,854	7,760,350
407d	407	Cast-in-place concrete piles (1500 mm diameter) including concrete class A3 but excluding reinforcement.				
		407dv. Boring only (in Normal soil)	M	13,904.00	20,020.25	278,361,556.00
		401a. Concrete class A3 in piles	CM	24,558.00	23,627.19	580,236,532.00
407l	407	Pile Load Test to 750 tons	Each	11.00	2,709,995.4	29,809,949.00
107a	107	Structural excavation in common material.	CM	500.00	412.76	206,380.00
107e	107	Common back fill in structures	CM	250.00	426.65	106,663.00
401f	401	Lean concrete	CM	134.00	12,724.46	1,705,078.00
401a	401	Concrete class A1 in				
		a) Approach Slab (on ground)	CM	274.00	23,283.23	6,379,605.00
401a	401	Concrete class A3 in				
		a) Abutment (on ground)	CM	1073.00	26,134.08	28,041,868.00
		b) Transoms (elevated)	CM	2,671.00	27,056.86	72,268,873.00
		c) Piers (Elevated)	CM	2,074.00	27,056.86	56,115,928.00
404	404	Reinforcement in substructure including piles as per AASHTO M31.				
		404b. Grade 60	Ton	5,430.00	326,225.80	1,771,406,094
406e	406	Elastomeric bearing pads as shown in the drawings	C.Cm	6,769,224	9.63	65,187,627.00
SP-2	SP	50mm Dia G.I pipe in piles including cross hole sonic logging and velocity Tomographic Imaging of piles complete all respects.				
		a) 50mm Dia G.I. Pipe in piles	M	52,759.0	969.12	51,129,802
		b) Cross hole sonic logging and velocity Tomographic Imaging of piles.	Each	175.0	100,000.00	17,500,000

**PROJECT DIRECTOR**



**BD-5**  
**Appendix-D to Bid**

<b>BILL-4A: PRE-STRESSED BRIDGES</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
<b>B. SUPERSTRUCTURES</b>						
401d	401	Concrete Class D2 in precast prestressed concrete girders.	CM	5,861.00	30,699.93	179,932,290
405b	405	Launching of P.C. Girders	TON	14,652.00	1,887.59	27,656,969
401a	401	Concrete Class A3 in deck slabs and diaphragms etc.	CM	6,173.00	27,056.86	167,021,997
401a	401	Concrete Class A1 in barrier	CM	1,294.00	24,206.01	31,332,577
406cii	406	50mm Expansion joint -Nosing type with Two Aluminium alloy sections and elastomeric profile imported (West Asian Make)	M	963.00	133,129.95	128,204,142
404	404	Reinforcement in superstructure as per AASHTO M31. 404b. Grade 60	Ton	3,178.00	326,225.8	1,036,745,592
P.H.E.W Schedule 2024 Vol- III Part-II Item No: E-6(h), Page-112.	--	Providing, laying UPVC pipes of Class D fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 122 meter or 400 ft. (h) 150mm (6" dia)	M	4,312.00	4,564.11	19,680,442
Water Supply & Sanitary works Schedule 2024 Vol- III Part-III Chap-5 Item No:1(x), Page-196.	--	Providing G.I pipes & specials and clamps etc. including fixing cutting & fitting complete with & i/c the cost of cutting trench upto 2 1/2 feet deep refilling watering ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to 2 pipes & specials after cleaning & hassain cloth soaked in maxphalt composition wrapped tightly round pipes and testing to a pressure head of 200 ft.	M	1,366.00	2,384.82	3,257,664
405a	405	Prestressing strand 1/2" dia including all sheaths Pipes, trumpets, block, stressing anchorage, etc. and grouting, all complete (only strand wire weight measure and paid)	Ton	273.00	793,868.83	216,726,191.00
<b>TOTAL FOR BILL-4A</b>						<b>4,876,430,869</b>
Above / Below % _____						
<b>TOTAL FOR BILL-4A CARRIED FORWARD TO SUMMARY:</b>						

Note: Rates are based on Draft NHA CSR 2025 (District Thatta)  
Amount in Words:

Signature / Stamp of Contractor:   
**PROJECT DIRECTOR**



BD-6  
Appendix-D to Bid

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

<b>BILL-4B: CULVERTS</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
107a	107	Structural excavation in common material	CM	103,347.84	412.76	42,657,854
107b	107	Structural excavation in common material below water level	CM	111,960.16	1,868.76	209,226,669.00
401f	401	Lean concrete	CM	6,473.00	12,724.46	82,365,430.00
401aii	401	Concrete Class A3 (culverts i/c wing wall, aprons & etc.)	CM	53,021.00	27,056.86	1,434,581,774.00
404b	404	Reinforcement steel as per AASHTO M31 grade 60	TON	6,028.00	326,225.8	1,966,489,122.00
107d	107	Granular back filling	CM	49,832.00	4,577.8	228,120,930.00
406a	406	Pre-moulded joint filler with bitumastic joint filler	SM	1,250.00	5,556.38	6,945,475.00
406d	406	Water stops 8"	M	9,044.00	4,757.29	43,024,931.00
509b	509	Rip rap class B	CM	25,542.00	6,128.63	156,537,467.00
<b>TOTAL FOR BILL-4B:</b>						<b>4,169,949,652</b>
Above / Below % _____						
<b>TOTAL FOR BILL-4B CARRIED FORWARD TO SUMMARY:</b>						

Note: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

**PROJECT DIRECTOR**



**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

<b>BILL-5: PROTECTION WORKS</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
107b	107	Structural Excavation in common material below water level	CM	125,337.85	1,868.76	234,226,365
401f	401	Lean Concrete	CM	23,470.76	12,724.46	298,652,693
509a	509	Rip Rap Class A	CM	205,902.31	5,952.46	1,225,625,290
509b	509	Rip Rap Class B	CM	314,810.00	6,128.63	1,929,354,010
509c	509	Rip Rap Class C	CM	575,477.14	6,355.5	3,657,444,982
509h	509	Filter Layer of Granular Material	CM	123,699.97	4,452.65	550,792,678
<b>TOTAL FOR BILL-5:</b>						<b>7,896,096,018</b>
Above / Below % _____						
<b>TOTAL FOR BILL-5 CARRIED FORWARD TO SUMMARY:</b>						

Note: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

  
**PROJECT DIRECTOR**



BD-8

Appendix-D to Bid

**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT  
EXTENSION / CONSTRUCTION OF SINDH COASTAL HIGHWAY (36kms)  
Phase-II: From Km 11+000 To Km 47+075  
COST ESTIMATE**

<b>BILL-6: ANCILLARY WORKS</b>						
<b>PAY ITEM</b>	<b>SPEC. REF.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
604-a	604	Metal Guard Rail	Each	67,750	10,813.03	732,582,783
604-b	604	Metal Guard Rail End Pieces	Each	11,292	10,905.96	123,150,101
604-d	604	Steel Post for Metal Guard Rail	Each	217	13,042.95	2,830,321
607bi	607	Traffic sign CAT 2i- 90cm sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge	Each	36	48,126.6	1,732,558
607ci	607	Traffic sign CAT 3A sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge	Each	36	63,049.94	2,269,798
607di	607	Traffic sign CAT 3B sign board in high-intensity reflective sheet laminated on 1.8mm thick GI sheet with GI pipe dia 3' and thickness 8 gauge	Each	9	96,751.31	870,762
608h2	607	Pavement marking in reflective TP paint for Line of 15 cm width	M	86,700	165.91	14,384,439
609d	609	Reflectorized Aluminum Pavement Studs (raised profile type double)	Each	8,257	1,215.79	10,038,981
SP	SP	Gantry Sign	Each	1.0	3,800,000	3,800,000
<b>TOTAL FOR BILL-6:</b>						<b>891,659,743</b>
Above / Below %						
<b>TOTAL FOR BILL-6 CARRIED FORWARD TO SUMMARY:</b>						

Note: Rates are based on Draft NHA CSR 2025 (District Thatta)

Amount in Words:

Signature / Stamp of Contractor: - \_\_\_\_\_

  
**PROJECT DIRECTOR**



## BILL OF QUANTITIES

### Day work Schedule

#### General

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for day work items in the Schedules, which rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall be carried forward to the bid price.

#### Day work Labour

2. In calculating payments due to the contractor for the execution of day work, the actual time of classes of labour directly doing the day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The contractor shall be entitled to payment in respect of the total time that labour is employed on day work, calculated at the basic rates entered by him in the Schedule of day work Rates for labour together with an additional percentage, payment on basic rates representing the contractor's profit, overheads, etc., as described below:
  - a) the basic rates for labour shall cover all direct costs to the contractor, including (but not limited to) the number of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
  - b) the additional percentage payment to be quoted by the bidder and applied to costs incurred under (a) above shall be deemed to cover the contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of staging's, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

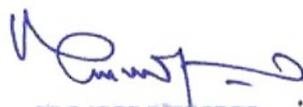
**PROJECT DIRECTOR**



## SCHEDULE OF DAYWORK RATES

### I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr.	500			
D102	Labour	Hr.	5,000			
D103	Brick layer	Hr.	500			
D104	Mason	Hr.	500			
D105	Carpenter	Hr.	500			
D106	Steel work Erector	Hr.	500			
	-----etc.-----	Hr.	500			
D113	Driver for vehicle up to 10 tons	Hr.	1,000			
D114	Operator for excavator, dragline, shovel or crane	Hr.	500			
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr.	500			
D122	<b>Sub Total</b> Allow _____ percent of subtotal for Contractor's overhead, profit, etc. in accordance with Paragraph 3(b) of Day work Schedule _____ Total for Day work: Labour: _____ (Carried forward to Day work Summary)					

  
PROJECT DIRECTOR



### **Day work Material**

4. The contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Day work Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
- a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
  - b) the additional percentage payment shall be quoted by the bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
  - c) the cost of hauling materials used on work ordered to be carried out as Day work from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.

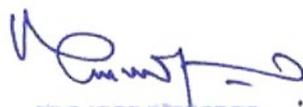
**PROJECT DIRECTOR**



## SCHEDULE OF DAYWORK RATES

### II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in (Words)	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M: Ton	200			
D202	Mild Steel reinforcing bar up to 16mm diameter to BS 4449 or equivalent	M: Ton	100			
D203	Fine aggregate for concrete as specified in Clause _____	Cu: M	1,000			
D204	.....Etc.....					
D222	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M: Ton	10			
D223	<b>Sub Total</b> Allow _____ percent of subtotal for Contractor's overhead, profit, etc. in accordance with Paragraph 4(b) of Day work Schedule. Total for Day work: Materials (Carried forward to Day work Summary) _____					

  
**PROJECT DIRECTOR**



### **Day Work Constructional Plant**

5. The contractor shall be entitled to payments in respect of constructional plant already on site and employed on Day work at the basic rental rates entered by him in the Schedule of Day work Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Day work Labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the site where the constructional plant was located when ordered by the Engineer to be employed on Day work and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Day work shall be stated in Pakistani Rupees.

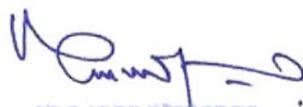
**PROJECT DIRECTOR**



### SCHEDULE OF DAYWORK RATES

#### III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate (Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator, face shovel or dragline: 1. Up-to and including 1 Cu.M. 2. Over 1 Cu.M to 2 Cu. M. 3. Over 2 Cu. M	Hr. Hr. Hr.	500 400 100			
D302	Tractor (tracked) including bull or angle dozer: 1. Up-to and including 150 HP 2. Over 150 to 200 HP 3. Over 200 to 250 HP	Hr. Hr. Hr.	500 400 200			
D303	Tractor with ripper: 1. Up-to and including 200 HP 2. Over 200 to 250 HP	Hr. Hr.	400 200			
D304	.....etc.....					
Total for day work: Constructional Plant _____ (Carried forward to day work summary)						

  
PROJECT DIRECTOR



**DAYWORK**  
**Summary (Day work)**

	Amount (Rs.)
(I) Total for day work: Labour: _____	
(II) Total for day work: Materials: _____	
(III) Total for day work: Constructional Plant: _____	
Total for day work (Carried forward to summary page of Bill of Quantities): _____	

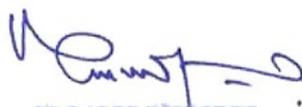
**PROJECT DIRECTOR**



**ESTIMATED PROGRESS PAYMENTS (SAMPLE)**

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Program of the works and the Rates in the Bill of Quantities, expressed in Pakistani Rupees:

<b>Quarter/ Year/ Period</b>	<b>Amounts (in thousands)</b>
<b>1</b>	<b>2</b>
1 <sup>st</sup> Quarter	
2 <sup>nd</sup> Quarter	
3 <sup>rd</sup> Quarter	
4 <sup>th</sup> Quarter	
5 <sup>th</sup> Quarter	
6 <sup>th</sup> Quarter	
7 <sup>th</sup> Quarter	
8 <sup>th</sup> Quarter	
9 <sup>th</sup> Quarter	
10 <sup>th</sup> Quarter	
11 <sup>th</sup> Quarter	
12 <sup>th</sup> Quarter	
<b>Bid Price</b>	

  
**PROJECT DIRECTOR**

# ANNUAL PROCUREMENT PLAN (2025-26)

## (WORKS, GOODS, SERVICES RFP & EOI)

DEPARTMENT NAME :-

WORKS & SERVICES DEPARTMENT GOVERNMENT OF SINDH

PROCUREMENT AGENCY:-

PROJECT DIRECTOR EXTENSION / CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO

S.#.	Description of Procurement)	Quantity Where Applicable	Estimated Unit Cost (Where Applicable Millions)	Funds Allocated (1000) Million)	Source of Funds (ADPs Non-ADPs)	Proposed Procurement Method	Timing of Procurements				Remarks
							1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
01	Extension / Construction of 36-Kilo Meter Sindh Coastal Highway Thatto Phase-II: From KM 11+00 to KM 47+075 (36.00 KMs)		31052.000	8000.000 GOP 2459.820 GOS 10459.82	PSDP 188 (2025-26) & ADP 2303 (2025-26)	Single Stage two Envelopes			√		

**PROJECT DIRECTOR**

EXTENSION / CONSTRUCTION OF 36-KILOMETER SINDH COASTAL HIGHWAY, THATTO  
(WORKS & SERVICES DEPARTMENT)



No.E&A(W&S)3-9/91/2025(HYD)

**GOVERNMENT OF SINDH**  
**WORKS & SERVICES DEPARTMENT**

Karachi, dated the 11<sup>th</sup> February, 2026

**NOTIFICATION**

**No.E&A(W&S)3-9/91/2025(HYD):** In supersession of this Department's Notification of even number dated 10.02.2026 and with the approval of Competent Authority, a Procurement Committee, with the following composition, in terms of Rule-7 & 8 of the Sindh Public Procurement Rules-2010 (Amended up-to date) is hereby re-constituted in the office of Project Director Extension / Construction of 36-Kilo Meter Sindh Coastal, Highways, Thatta, 1<sup>st</sup> Floor, Chief Engineer Highways Office, Shahbaz Building, Hyderabad, for the scheme of Extension / Construction of 36-Kilo Meter Sindh Coastal Highways Phase-II from KM 11+000 to 47+075 (36.00KMS) Revised:-

**PROCUREMENT COMMITTEE**

1	Project Director, Extension / Construction of 36-Kilo Meter Sindh Coastal, Highways, Thatta (Works & Services Department)	Chairman
2	Project Engineer, Extension / Construction of 36-Kilo Meter Sindh Coastal, Highways, Thatta (Works & Services Department)	Member
3	Executive Engineer, Public Health Engineering Division, Thatta	Member
4	Director General Monitoring, (Project wings) Planning Commission Islamabad.	Co-Member
5	M/s Engineering Consultants International Pvt. Ltd. (JV) AA Association (Consultant).	Co-Member

**MUHAMMAD NAWAZ SOHOO, PAS**  
SECRETARY TO GOVT. OF SINDH

No.E&A(W&S) 3-9/91/2025(HYD)

Karachi, dated the 11<sup>th</sup> February, 2026

A copy is forwarded for information and necessary action to: -

1. The Accountant General, Sindh, Karachi.
2. The Managing Director, SPPRA, Karachi.
3. The Chief Engineer (Highways), Hyderabad.
4. The Project Director, Extension / Construction of 36-Kilo Meter Sindh Coastal Highways, Thatta.
5. The Chairman/Members of the Committee
6. The Superintending Engineer, Works & Services, Hyderabad.
7. The Executive Engineer, Highways Division, Hyderabad.
8. The District Accounts Officer, Badin/concerned.
9. P.S to Secretary, Works & Services Department, Karachi.
10. Office order file.

  
(BANGUL KHAN)  
(SECTION OFFICER (GENERAL))



No.E&A(W&S) 3-9/91/2025(HYD)  
**GOVERNMENT OF SINDH**  
**WORKS & SERVICES DEPARTMENT**

Karachi, dated the 30<sup>th</sup> September, 2025

**NOTIFICATION**

**No. E&A (W&S)3-9/91/2025(SBA):** With the approval of Competent Authority, a Complaint Redressal Committee, (CRC) with the following composition, in terms of Rule-31 of Sindh Public Procurement Rules-2010 (Amended up-to-date) is hereby constituted in the Office of the Secretary Works & Services Department Government of Sindh, for the purpose of Redressal of Grievances and settlement of disputes, if any, arises between procuring agency and bidders for the scheme of **Extension / Construction of 36-Kilo Meter Sindh Coastal Highways Phase-II from KM 11+000 to 47+075 (36.00KMS) revised:-**

**COMPLAINT REDRESSAL COMMITTEE:-**

1.	<b>Secretary to Government of Sindh</b> (Works & Services) Department, Karachi.	Chairman
2.	<b>Director Highways (BPS-19)</b> Office of the Chief Engineer, Highways Hyderabad.	Member
3.	<b>Mr. Qamaruddin Solangi</b> Divisional Accounts officer (Retired), (Ex-Rep: of Accountant General Sindh)	Member

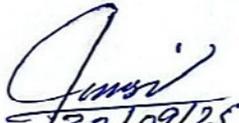
**MUHAMMAD NAWAZ SOHOO, PAS**  
SECRETARY TO GOVT. OF SINDH

No.E&A(W&S)3-9/91/2025

Karachi, dated the 30<sup>th</sup> September, 2025

A copy is forwarded for information and necessary action to: -

1. The Accountant General, Sindh, Karachi.
2. The Managing Director, SPPRA, Karachi.
3. The Chief Engineer (Highways), Hyderabad.
4. The Chairman/Members of the Committee.
5. The Project Director, Extension / Construction of 36-Kilo Meter Sindh Coastal Highways, Thatta.
6. The Superintending Engineer, Provincial Highways Circle, Hyderabad.
7. The Executive Engineer, Provincial Highways Division, Hyderabad.
8. The District Accounts Officer, Hyderabad.
9. PS to Secretary, W&S Department, Govt. of Sindh, Karachi.
10. Office order file.

  
30/09/25  
**(SIRAJUDDIN ABBASI)**  
SECTION OFFICER (GENERAL)