



SPECIAL TECHNOLOGY ZONES AUTHORITY

CABINET DIVISION

Tender Notice

“Infrastructure Development of Islamabad Technopolis”

Special Technology Zones Authority (STZA) invites sealed bids, in favor of Manager Procurement, from reputed firms registered with Income Tax and Sales Tax departments, Government of Pakistan, who are on Active Taxpayers List (ATL) of FBR for the “**Infrastructure Development of Islamabad Technopolis**”. Bidding documents, containing detailed specifications and other terms and conditions, can be downloaded from STZA website <http://www.stza.gov.pk/>. PPRA website www.ppra.org.pk and EPADs at <https://eprocure.gov.pk>.

Proposals should be submitted in a single, sealed envelope up to 10th February 2026, till 1100 hrs. **Bidders are also required to submit their proposal on EPADs at <https://eprocure.gov.pk>. In case the bid is not submitted on EPADs, it will not be accepted by the STZA in hard form.** Pre-Bid meeting will be held on 29th January 2026 in the committee room of the STZA at 1200 hrs. The proposal will be opened on 10th February 2026, at 1130 hrs. In the Committee Room of STZA in the presence of bidders/ their representatives, who would care to be present at the time of opening of bids. The proposals received after due date and time will not be considered.

Manager Procurement
procurement@stza.gov.pk
Special Technology Zone Authority

16th Floor, New State Life Tower, Plot # 61, Jinnah Avenue, Islamabad



INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS

(Construction of Boundary Wall and Entrance Gate)



BIDDING DOCUMENTS VOLUME-I



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VOLUME -II

DRAWINGS (Separate Binding)

INVITATION FOR BIDS

INVITATION FOR BIDS

1. Special Technology Zone Authority (STZA) (“the Employer”) has arranged funds from Federal Government of Pakistan through PSDP towards the cost of “Infrastructure Development of Islamabad Technopolis (Construction of Boundary Wall and Entrance Gate)” from the eligible Bidders, registered with Income Tax Department, and who are on Active Taxpayers List of the Federal Board of Revenue.
2. Electronic Bidding Documents based on Single Stage One Envelope bidding procedure, containing detailed terms and conditions etc. are available for the registered Bidders on STZA website <http://www.stza.gov.pk/>. PPRA website www.ppra.org.pk and EPADS web portal (<https://eprocure.gov.pk/>).
3. The Bids prepared in accordance with the instructions in the Bidding Documents must be submitted in hard form as well as electronically through PPRA [Federal] EPADS web portal (<https://eprocure.gov.pk/>) on or before 1100 hours, 10th February 2026. In case the bid is not submitted on EPADS, it will not be accepted by the STZA in the hard form
4. Original Bid Security must be submitted to the Employer at the address given below on or before the deadline for submission of Bids stated herein above otherwise such Bid shall be rejected. Copy of the original Bid Security must be uploaded through EPADS online portal along with the Bid.
5. The Bids will be opened through EPADS at 1130 hours, 10th February, 2026 at the address given below, in the presence of the Bidders’ representatives who choose to attend.
6. This advertisement is also available on the Employer’s website <https://www.stza.gov.pk/> Public Procurement Regulatory Authority (PPRA) website <https://ppra.gov.pk/#/> and EPADS at <https://eprocure.gov.pk>.

Manage Procurement
Special Technology Zones Authority (STZA)
Plot No 61, State Life Tower,
16th Floor, F-7/4, Islamabad
Tel: +92 51 9175000, Email: procurement@stza.gov.pk

INSTRUCTIONS TO BIDDERS (IB)

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INSTRUCTIONS TO BIDDERS

A. GENERAL

IB.1 Scope of Bid	<p>1.1 The Employer as defined in the Bidding Data hereinafter called “the Employer” 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”.</p> <p>1.2 The successful Bidder will be expected to complete the Works within the time specified in the Bidding Data.</p>
IB.2 Source of Funds	<p>2.1 The Employer has applied for/received a funding from the source(s) in various currencies towards the cost of the project specified in the Bidding Data and it is intended that part of the proceeds of this funding will be applied to eligible payments under the Contract for which these Bidding Documents are issued.</p>
IB.3 Eligible Bidders	<p>3.1 This Invitation for Bids is open to all Bidders meeting the following requirements at the time of submission of Bids and thereafter:</p> <ul style="list-style-type: none"> (a) Duly eligible for this bidding process; (b) Duly licensed by the Pakistan Engineering Council (PEC) in the category C-3 or above, having specialization codes CE-01 and CE-10. <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> <ul style="list-style-type: none"> (c) Pakistani Constructor must be on Active Taxpayer List of the Federal Board of Revenue and provincial revenue authority/ board where applicable; and (d) All partners constituting the Bidder including proposed subcontractors do not appear in the list of debarred/ blacklisted firms and individuals on the websites of PEC and Federal & Provincial Procurement Regulatory Authorities and have not been declared debarred/ blacklisted by foreign country, international organizations or other foreign institutions.

IB.4	Eligible Materials, Equipment and Services	<p>4.1 All materials, equipment and services to be supplied under this Contract shall have their origin in eligible countries described under paragraph 4.4 hereunder.</p> <p>4.2 For purpose of this Clause, “origin” means the place where the Goods are mined, grown or produced or from where the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.</p> <p>4.3 The origin of Goods and Services is distinct from the nationality of the Bidder.</p> <p>4.4 Eligible countries to participate in this bidding process are those which have been notified by Ministry of Interior, Government of Pakistan as Business-Friendly Countries (BVL); information can be accessed through following link:</p> <p style="text-align: center;">http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L</p>
IB.5	One Bid per Bidder	<p>5.1 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.17) will be disqualified.</p>
IB.6	Site Visit	<p>6.1 The Bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility 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.</p> <p>6.2 The Bidders and any of their personnel or agents will be granted permission by the Employer 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 Employer, 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.</p>
IB.7	Contents of Bidding Documents	<p>B. BIDDING DOCUMENTS</p> <p>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:</p> <ol style="list-style-type: none"> 1. Instructions to Bidders; 2. Bidding Data; 3. Evaluation Criteria and Qualification Forms; 4. General Conditions (GC); 5. Particular Conditions (PC): <ul style="list-style-type: none"> Part A - Contract Data; Part B - Special Provisions; 6. Specifications (SP):

		Part A - Specific Provisions; Part B - Technical Provisions; 7. Letter of Bid; 8. Schedules to Bid; 9. Standard Forms: (i) Form of Bid Security; (ii) Letter of Acceptance; (iii) Form of Contract Agreement; (iv) Form of Performance Security; (v) DAAB Agreement; (vi) Form of Mobilization Advance Guarantee; 10. 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 Bidding Documents will be rejected.
IB.8	Clarification of Bidding Documents, Pre-Bid Meeting	8.1 Any prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than the period specified in the Bidding Data , prior to the deadline for submission of bids. 8.2 Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source. 8.3 The Employer may, on his own or at the request of any prospective Bidder(s), 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, are as stipulated in the Bidding Data. All prospective Bidders or their authorized representatives shall be invited to attend such a pre-bid meeting. 8.4 The Bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting. 8.5 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. 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 Employer exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting. 8.6 Absence at the pre-bid meeting will not be a cause for disqualification of a Bidder.
IB.9	Amendment of Bidding Documents	9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in

response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.

9.2 Any addendum thus issued shall be part of the Bidding Documents listed in Sub-Clause IB.7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Employer.

9.3 Such addendum shall be issued not later than number of days prior to the deadline for submission of bids, specified in the **Bidding Data**. To afford prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20.

C. PREPARATION OF BIDS

IB.10 Cost of Bidding 10.1 The Bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.11 Language of Bid 11.1 The Bid and all correspondence and documents related to the Bid exchanged by a Bidder and the Employer shall be in the Bid language stipulated in the **Bidding Data** and Particular Conditions of Contract. Supporting documents and printed literature furnished by the Bidders may be in any other language provided the same are accompanied by duly certified 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.12 Documents Comprising the Bid 12.1 Each Bidder shall:

- (a) submit duly filled in, signed and stamped Letter of Bid and completed Schedules to Bid as required, including priced Bill of Quantities, in accordance with Clause IB.18 hereof;
- (b) submit Bid Security in accordance with Clause IB.16 hereof;
- (c) submit alternative proposal, if permissible in accordance with Clause IB.17;
- (d) submit a written power of attorney authorizing the signatory of the Bid to act for and on behalf of the Bidder. The name and position held by each person signing the authorization must be typed or printed below the signature;
- (e) submit the Qualification Updating Forms duly filled in, signed and stamped along with requisite attachments, to establish that the Bidder continues to meet the Eligibility and Qualification Criteria set out in the Pre-Qualification

Documents and as provided in the Section “Evaluation Criteria and Qualification Updating Forms”;

(f) furnish a technical proposal taking into account the various Schedules to Bid, specially the following:

Schedule-C to Bid, Proposed Construction Schedule;

Schedule-D to Bid, Method of Performing the Work;

Schedule-E to Bid, List of Major Equipment;

Schedule-F to Bid, Organization Chart for Supervisory Staff;

and other pertinent information, such as mobilization programme, etc.

12.2 Bids submitted by a joint venture of two (2) or more firms specified in **Bidding Data**, shall comply with the following requirements:

(a) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;

(b) 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;

(c) the partner-in-charge shall always be duly authorized to deal with the Employer 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(b) above as well as in the Letter of Bid and in the Form of Contract Agreement (in case of a successful bid); and

(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 and corresponding duties & responsibilities 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 Employer.
	12.3	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 in Sub-Clause IB.1.2 hereof.
IB.13	Bid Prices	<p>13.1 The price and discount if any quoted by the Bidders in the Letter of Price Bid and in the Bill of Quantity shall conform to the requirement specified below:</p> <p>13.2 The Bidder shall quote any discounts and the methodology for their application.</p> <p>13.3 If bids are being invited for individual lots (contracts) or for any combination of lots, the Bidders can offer discounts for the individual lots (contracts) as well as for award of more than one Contract and shall specify in their bid.</p> <p>13.4 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause IB.1.1 hereof, based on the unit rates and/or prices.</p> <p>13.5 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 Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.</p> <p>13.6 All duties, taxes (direct and indirect) and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a Bidder.</p> <p>Additional/reduced duties, taxes excluding direct taxes like income tax, and levies due to subsequent additions or changes in legislation shall be reimbursed/ deducted as per Sub Clause 13.6 [<i>Adjustment for Changes in Laws</i>] of the Conditions of Contract.</p>
	13.7	The rates and prices quoted by the Bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Sub-Clause 13.7 [<i>Adjustments for Changes in Cost</i>] of the General Conditions of Contract. The Bidders shall furnish the prescribed information for the price adjustment formulae in Schedule-A to Bid, and shall submit with their bids such other requisite supporting information if required under the said Schedule.
IB.14	Currencies of Bid and Payment	<p>14.1 The unit rates and the prices shall be quoted by the Bidder entirely PKR.</p> <p>A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country (referred to as the "Foreign Currency Requirements") shall indicate in Table III of Schedule-A to Bid the proportion of the</p>

Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements; in such case the unit rates and the prices shall be quoted by the Bidder in Equivalent PKR.

14.2 The rates of exchange to be used by the Bidder for currency conversion shall be the TT Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date twenty eight (28) days prior to the deadline for submission of bids. Such rates shall be notified by the Employer not later than fourteen (14) 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.15 Bid Validity 15.1 Bids shall remain valid for the period stipulated in the **Bidding Data** after the date of Bid Opening specified in Clause IB.23.

15.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the Bidders extend the period of validity for a specified additional period which normally may not be more than the original bid validity period. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting his Bid Security. A Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.16 in all respects.

IB.16 Bid Security 16.1 Each Bidder shall furnish, as part of his bid, a Bid Security in original form in the amount stipulated in the **Bidding Data** in PKR or an equivalent amount in a freely convertible currency.

16.2 The Bid Security shall be, at the option of the Bidder, in the form of Call Deposit Receipt (CDR)/ Pay Order or a Security issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the **Bidding Data** and rated by PACRA/VIS of rating as provided in Table below in favour of the Employer valid for a period 14 days beyond the Bid Validity date. The Bid Security of Joint Venture shall be in the name of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.

Bid Price (In Eq. million PKR)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA
<i>[Note: Insurance Company includes Joint Ventures of Insurance Companies also]</i>	

16.3 Any Bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.

	16.4	The Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder requests for the return of its Bid Security, or upon the expiry of original validity of Bid Security or as extended, whichever is earlier.
	16.5	The Bid Security of the lowest three Bidders including the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security.
	16.6	<p>The Bid Security may be forfeited:</p> <ul style="list-style-type: none"> (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.28.2 hereof; or (c) in the case of successful Bidder, fails to furnish the required Performance Security.
	16.7	In case of annulment, all Bids submitted and specially, Bid securities, shall be returned to the Bidders within 14 days of annulment.
IB.17	Alternative Proposals by Bidder	<p>17.1 Unless otherwise specified in the Bidding Data, alternative proposal(s) shall not be considered.</p> <p>17.2 Should any Bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his Bid to be submitted in strict compliance with the Bidding Documents, submit any alternative proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details/conditions, provided always that the total sum entered on the Letter of Bid shall be that which represents complete compliance with the Bidding Documents.</p> <p>17.3 Alternative proposal(s), if any, of the Bidder having submitted most advantageous Bid only may be considered by the Employer as the basis for the award of Contract to such Bidder.</p>
IB.18	Format and Signing of Bid	<p>18.1 Bidders are particularly directed that the amount entered on the Letter of Price Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.</p> <p>18.2 All Schedules to Bid are to be properly completed and signed.</p> <p>18.3 No alteration is to be made in the Letters of Bid nor in the Schedules 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.</p> <p>18.4 Each Bidder shall prepare by filling in the forms completely and without alterations one (1) original and number of copies, specified in the Bidding Data, of the documents comprising the</p>

Bid as described in Clause IB.12 and clearly mark them “ORIGINAL” and “COPY” as appropriate. In the event of discrepancy between them, the original shall prevail.

The Bidder shall also provide complete searchable PDF versions as well as Word, Excel, etc., versions of the Bid if so required in the **Bidding Data**.

- 18.5 The original of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder pursuant to Sub-Clause IB.12.1(d) hereof. All pages of the Bid shall be initialled and stamped by the person or persons signing the bid.
- 18.6 The Bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Bid.
- 18.7 Bidders shall indicate in the space provided in the Letter of Bid their full and proper 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 the original Bidding Documents and the Bid with them.
- 18.9 All documents executed outside Pakistan required to be submitted with the Bid must be certified by Pakistani Embassy in the respective country(ies).

D. SUBMISSION OF BIDS

IB.19 Sealing and Marking of Bids

- 19.1 Each Bidder shall submit his Bid as under:
 - (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub Clause IB.19.2 hereof.
- 19.2 The inner and outer envelopes shall:
 - (a) be addressed to the Employer at the address provided in the **Bidding Data**;
 - (b) bear the specific identification of this bidding process as specified 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 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 Employer will assume no responsibility for the misplacement or premature opening of the Bid.
IB. 20	Deadline for Submission of Bids	<p>20.1 (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the Bidding Data.</p> <p>(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 will be entertained for refund of such expenses.</p> <p>(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 envelope.</p> <p>(d) Upon request, acknowledgment of receipt of Bids will be provided to those making delivery in person or by messenger.</p>
	20.2	The Employer may, at his discretion, extend the deadline for submission of Bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.
IB.21	Late Bids	<p>21.1 (a) Any Bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 shall be declared late, rejected and returned unopened to such Bidder.</p> <p>(b) Delays in the mail, delays of 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 determine the manner in which timely delivery of his Bid will be accomplished either in person, by messenger or by mail.</p>
IB.22	Modification, Substitution and Withdrawal of Bids	<p>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 Employer prior to the deadline for submission of bids.</p> <p>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.</p> <p>22.3 No Bid may be modified by a Bidder after the deadline for submission of Bids except in accordance with Sub Clauses IB.22.1 and 28.2.</p>

22.4 Withdrawal of a Bid during the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified in the Letters of Bid may result in forfeiture of the Bid security in pursuance to Clause IB.16.

E. BID OPENING AND EVALUATION

IB.23 Bid Opening

23.1 The Employer will open the Bids including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of Bidders' representatives who choose to attend, at the time, date and location stipulated in the **Bidding Data**. The Bidders' representatives who are present shall sign a register evidencing their attendance.

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. Only bids that are opened and read out at Bid opening shall be considered further.

23.3 The Bidder's name, total Bid Price and price of any alternative proposal(s), any discounts, Bid modifications, substitution and withdrawals, the presence or absence of Bid security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of Bids. Only discounts and alternative proposals read out at Bid opening shall be considered for evaluation. The Letter of Bid and the Summary Bill of Quantities are to be initialled by representative(s) of the Employer attending Bid opening. The Employer shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with Sub-Clause IB 21.1).

23.4 The Employer 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

24.1 Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of Contract shall not be disclosed to Bidders or any other person not officially concerned with such process before the announcement of the result of Bid evaluation in the form of final evaluation report giving justification for acceptance or rejection of Bids which shall be done at least fifteen (15) days prior to 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 Employer's processing of Bids or Contract award decisions may result in the rejection of such Bidder's Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than five (5) days after the announcement of the final evaluation report.

IB.25 Clarification of Bids

25.1 To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates and lump sum prices. Any clarification submitted by a Bidder that is

not in response to a request by the Employer shall not be considered. The request for clarification and the response shall be in writing through EPADS. 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 Employer in the evaluation of the Bids in accordance with Clause IB.28.

25.2 The Employer may, at his discretion, ask any Bidder for confirmation/submission of missing information to clarify its Bid. However, the Employer does not have an obligation to request any additional information or clarification with respect to missing or deficient information in a Bid. The Employer may reject any Bid as non-responsive if found materially incomplete, obscure, irregular or omitting any material information required to be submitted in accordance with the Bidding Documents.

25.3 If a Bidder does not provide clarifications of its Bid by the date and time set reasonably (not less than seven (7) days) in the Employer's request for clarification, the Employer may proceed with the evaluation based on the information submitted in the Bid without waiting for the Bidder's response.

IB.26 Examination of Bids and Determination of Responsiveness

26.1 Prior to the comparison of Bids, the Employer will determine whether each Bid is substantially responsive to the requirements of the Bidding Documents.

26.2 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in Sub- Clause IB.12.

26.3 A substantially responsive Bid is one which meets the requirements of the Bidding Documents, without material deviation, reservation or omission. A material deviation, reservation or omission is one that,

- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality or performance of the Works; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the proposed Contract; or
- (b) if rectified, would unfairly affect the competitive position

During the evaluation of Bids, the following definitions apply:

26.4 (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;

(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and

(c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents.

26.5 The Employer shall examine the technical aspects of the Bid submitted in accordance with Sub-Clause IB.12.1(f), in particular,

		to confirm that all requirements stated in Specifications have been met without any material deviation, reservation or omission.
	26.6	If a Bid is not substantially responsive to the requirements of the Bidding Documents, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation, reservation or omission.
IB.27	Nonmaterial Nonconformities	<p>27.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid.</p> <p>27.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>27.3 Provided that a Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by other lowest two evaluated substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Employer shall use a suitable CSR, adjusted to the date 28 days earlier to the Bid submission date or its best assessment.</p>
IB.28	Correction of Arithmetic Errors	<p>28.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:</p> <ul style="list-style-type: none"> (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. (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 Employer 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. (c) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. <p>28.2 The amount stated in the Letter of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the Bidder, 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</p>

		Bid security shall be forfeited in accordance with Sub Clause IB.16.6(b) hereof.
IB.29	Evaluation and Comparison of Bids	<p>29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26. The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.</p> <p>29.2 In evaluating and comparing the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:</p> <ul style="list-style-type: none"> (a) making any correction for arithmetic errors pursuant to Clause IB.28; (b) price adjustment due to discounts offered in accordance with Sub-Clause IB.23.3; (c) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced daywork; (d) making an appropriate price adjustment for any quantifiable nonmaterial nonconformities in accordance with Sub-Clause IB.27.3; and (e) the additional evaluation factors are specified in Section Evaluation Criteria and Qualification Updating Forms.
		<p>29.3 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 Bids' comparison.</p>
IB.30	Abnormally Low Bids	<p>30.1 If the Bid Price of the successful Bidder is more than 15% below the lower of the Employer's estimate of the cost of work to be performed under the Contract or average of other lowest two evaluated substantially responsive Bids, the Employer may require the Bidder through EPADS 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 Employer may require an additional Performance Security by 10% of the difference of the Bid Price as determined hereinabove upto issuance of Taking Over Certificate at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The Bids having Bid Price lower than 25% shall be liable to be rejected.</p>
IB.31	Unbalanced or Front Loaded Bids	<p>31.1 If the Bid of the successful Bidder is seriously unbalanced (Front Loaded) in relation to the average of other evaluated substantially responsive Bids, the Employer during execution of contract may pay against measured quantities of significantly higher quoted line item(s) rate(s) with respect to same line item(s) rate(s) determined from the average of other lowest two evaluated substantially responsive Bids as instructed by the Engineer. The balance line item(s) rate(s) may be paid against the same</p>

measured quantities at the time of issuance of Taking Over Certificate or as instructed by the Engineer.

F. AWARD OF CONTRACT

IB.32	Award Criteria	32.1	Subject to Clauses IB.33 and IB.39, the Employer will award the Contract to the Bidder whose Bid has been determined as most advantageous Bid (substantially responsive to requirements of the Bidding Documents with the lowest evaluated Bid Price).
IB.33	Employer's Right to Annul the Bidding Process	33.1	<p>Notwithstanding Clause IB.32, the Employer reserves the right to annul the bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation.</p> <p>The Employer shall upon request communicate to any Bidder who submitted a Bid, the grounds for its rejection of all Bids but is not required to justify those grounds. Rejection of all Bids shall be notified to all Bidders promptly.</p>
IB.34	Notification of Award	34.1	<p>Prior to expiration of the period of Bid validity prescribed by the Employer, the Employer will notify the successful Bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay 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 "Accepted Contract Amount").</p> <p>The Letter of Acceptance will also state the remedies with respect to Sub-Clauses IB.30 & IB.31 if applicable.</p>
		34.2	No negotiation with the Bidder having submitted most advantageous Bid or any other Bidder shall be permitted, however, Employer may have clarification meetings before issuing Letter of Acceptance to get clarified any item in the Bid evaluation report.
		34.3	The Letter of Acceptance/ notification of award and its acknowledgement/acceptance by the Bidder will constitute the formation of the Contract, binding the Employer and the Bidder till signing of the formal Contract Agreement.
		34.4	Upon furnishing by the successful Bidder of a Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful and return their Bid securities in accordance with Sub-Clause IB.16.5.
IB.35	Performance Security	35.1	The successful Bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Conditions of Contract and additional Performance Security if applicable under IB.30 as stated in the Letter of Acceptance, within a period of 28 days after the receipt of Letter of Acceptance.
		35.2	Failure of the successful Bidder to comply with the requirements of Sub Clause IB.35.1 or Clauses IB.36 or IB.37 shall constitute sufficient grounds for the annulment of the award, forfeiture of

		the Bid Security and to award the Contract to the Bidder having submitted next advantageous Bid.
IB.36	Signing of Contract Agreement	36.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will notify the successful Bidder to depute its representative with appropriate Power of Attorney to sign the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.
		36.2 The formal Agreement between the Employer and the successful Bidder shall be executed within 14 days of the receipt of the above stated notification by the successful Bidder from the Employer.
IB.37	Integrity Pact	37.1 The Bidder shall sign and stamp the Integrity Pact provided at Schedule-J to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding PKR ten million. Failure to provide such Integrity Pact shall make the Bidder non-responsive.
IB.38	Instructions not Part of Contract	38.1 Bids shall be prepared and submitted in accordance with the Instructions to Bidders which are provided to assist the Bidders in preparing Bids but do not constitute part of the Contract.
IB.39	Corrupt and Fraudulent Practices	39.1 The Employer will reject a Bid if it determines that the Bidder recommended for award, or any of its personnel, or its agents, or its sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract under this bidding. 39.2 The Employer will blacklist and hence forthwith debar a Constructor or individual, at any time, in accordance with the prevailing Public Procurement Rules 2004.

BIDDING DATA (BD)

BIDDING DATA

IB Clause Reference	Bidding Data
1.1	<p>The Employer as defined, herein below, hereinafter called “the Employer” wishes to receive bids on EPADS for the construction and completion of works as described in these Bidding Documents, and summarized herein below, hereinafter referred to as the “Works”.</p> <p>Name and address of the Employer: Manager Procurement procurement@stza.gov.pk Special Technology Zones Authority (STZA), Plot No. 61, State Life Tower, 16th Floor, F-7/4, Islamabad.</p> <p>Name of the Project & Summary of the Works: Infrastructure Development of Islamabad Technopolis (Construction of Boundary Wall and Entrance Gate)</p> <p>Major components of the Project are the following:</p> <ol style="list-style-type: none"> (1) Boundary Wall (5km) (2) Entrance Gate, Security and Site Office (01 No.)
1.2	Time for Completion for the Works: 270 days
2.1	<p>Name of the Borrower/Source of Funding: The Employer has arranged funds from Federal Government of Pakistan through PSDP.</p>
8.1	<p>Any prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer in writing on EPADS. The Employer will respond on EPADS to any request for clarification which he receives earlier than the period as specified in Bidding Data 8.4, prior to the deadline for submission of bids. The Employer’s response shall be on EPADS to all Bidders who have acquired the Bidding Document including a description of the enquiry but without identifying its source. It will be responsibility of bidders to check website for clarifications.</p>
8.3	<p>Venue, time, and date of the pre-Bid meeting:</p> <p>Venue: Committee Room of Special Technology Zones Authority (STZA), Plot No 61, State Life Tower, 16th Floor, F-7/4, Islamabad.</p> <p>Time: 1200 Hours</p> <p>Date: 29th January 2026</p>
8.4	<p>The Bidders are requested to submit questions, if any, in writing on EPADS so as to reach the Employer not later than five (5) days before the proposed pre-bid meeting.</p>
8.7	<p>The Employer will examine the request for clarification of the Bidding Documents which it receives through EPADS not later than five (05) days prior to the deadline for the submission of Bids and copies of the Employer’s response will be uploaded on EPADS for all prospective bidders, including a description of the enquiry but without identifying its source. It will be responsibility of bidders to check website for</p>

IB Clause Reference	Bidding Data
	clarifications.
9.2	Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 7.1 hereof, and shall be communicated in writing through EPADS. The Bidder shall also confirm in the Letters of Bid that the information contained in such addendum have been considered in preparing his Bid.”
9.3	<p>Number of days: three (03)</p> <p>The following line is added at the end of the Sub-Clause 9.3:</p> <p>All such information will be shared through EPADS.</p>
11.1	Bid language: English
12.2	Maximum number of JV Partners shall be two (02).
13.7	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.
14.1	Bidders to quote entirely in Pak. Rs. Foreign Currency Requirement is not applicable.
15.1	Period of Bid Validity: 90 days
16.1	Amount of Bid Security: PKR 15,000,000 (Pak Rupees Fifteen million only) The scanned copy of Bid Security to be attached on EPADS with the Bid.
16.2	The Bid Security shall be in the form of CDR/Pay Order. The Bid Security in any other form shall not be acceptable.
16.3	The original Bid Security shall reach to the Employer on or before deadline of submission of Bids; otherwise such Bid shall be rejected by the Employer as non-responsive.”
17	Submission of any Alternate Proposal(s) is not permitted
18.4	Each Bidder shall prepare one (1) Original Bid in hard form of the documents comprising the Bid as described in Clause IB.12, scan the same and submit electronically through EPADS web portal https://eprocure.gov.pk
18.7	During bidding process all the correspondence with the Bidder in connection with the respective Bid, Letter of Acceptance, and Contract Agreement shall be made through EPADS. The Bidders shall indicate in the space provided in the Letters of Bid their full and proper addresses at which notices may be legally served on them (if required so in opinion of the Employer) ”
19.1	Each Bidder shall submit his Bid as under: (a) The electronic copy of Bid through EPADS. (b) One (1) Original Bid in hard form.
19.2	The Bid Security in original shall also be delivered in person or sent by registered mail at the address to the Employer as provided in the Invitation for Bids.”

IB Clause Reference	Bidding Data
19.3 & 19.4	-
20.1	<p>(a) Bids must be received by the Employer in hard form as well as through EPADS not later than deadline of submission of Bids as stipulated in the Invitation for Bids or extended thereafter in accordance with the provisions of Bidding Documents. Bids submitted through any mode/source other than EPADS shall not be considered.</p> <p>(b) Upon request, acknowledgment of receipt of Bid Security will be provided to those making delivery in person or by messenger.</p>
21.1	<p>(a) If a Bidder fails to submit its Bid through EPADS but hard copy of Bid is received, his Bid shall be considered as “not submitted” and such hard copies (if any) shall be returned to the Bidder un-opened.</p> <p>(b) Delays occurred due to any reason(s) shall not be accepted as an excuse for failure to submit a Bid electronically through EPADS in time. It shall be the Bidder’s responsibility to determine the manner for timely submission of his Bid.</p> <p>In this regards, EPADS Procurement Regulations, 2023 shall prevail.</p>
22.1 & 22.2	-
22.3	No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clause IB.28.2.
23.1, 23.3 & 23.4	The Bid Opening shall be conducted through EPADS.
23.2	-
25.1	To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates and lump sum prices on EPADS. Any clarification submitted by a Bidder on EPADS that is not in response to a request by the Employer shall not be considered. The request for clarification and the response shall be in writing on EPADS. 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 Employer in the evaluation of the Bids in accordance with Clause IB.28.
25.2	All such confirmation/submission of missing information shall be made through EPADS.
7.1, 29.2(e)	'Qualification Updating Forms' shall be read as 'Qualification Forms'.

EVALUATION CRITERIA AND QUALIFICATION FORMS

EVALUATION CRITERIA AND QUALIFICATION FORMS

1. General

This Section contains Eligibility and Qualification Criteria that the Employer shall use to evaluate Bids and qualify Bidders in accordance with Clauses IB.26 of Instructions to Bidders. The Bidder shall provide all the information requested in the relevant forms contained in Bidder's Qualification Forms provided herein.

The information provided in the forms shall be substantiated with valid documentary evidences otherwise the requirement will not be considered as complied.

Wherever a Bidder is required to state a monetary amount, Bidders shall indicate the PKR equivalent using the rate of exchange determined as follows:

- For financial data - Exchange rate prevailing on the last day of the respective calendar year (inwhich the amounts for that year is to be converted) was originally established.

Exchange rates shall be taken from the publicly available source identified in the Sub-Clause IB.14.2. Any error in determining the exchange rates in the Bid may be corrected by the Employer.

2. Domestic Preference

[Not Applicable]

3. Evaluation (IB 29.2(e))

In addition to the criteria listed in IB 29.2 (a) - (d) the following criteria shall apply:

3.1 Assessment of adequacy of Technical Proposal with Requirements

3.2 Multiple Contracts, if permitted under Sub-Clause 1.1 of Bidding Data, will be evaluated as follows: **[Not Applicable]**

3.3 Price Adjustments, if permitted under IB.29.2(d), will be evaluated as follows:

(a) Price Adjustment for Completeness in Scope of Work

In case of omission in the scope of work of a quoted item, no price adjustment for the omitted item(s) shall be applied provided that the Bidder has mentioned in his Bid that the same is covered in any other item. Otherwise the adjustments will be applied for comparison purpose only, taking the average price quoted by other lowest two evaluated substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employer from a suitable CSR, adjusted to the date 28 days earlier to the Bid submission date or the Employer shall use its best assessment.

The price adjustment shall not justify any additional payment by the Employer and the price(s) of omitted item(s) shall be deemed covered by other prices of the Bill of Quantities.

(b) Price Adjustment for Technical/ Commercial Non Compliance

The cost of making good any deficiency resulting from technical/commercial non- compliance will be added to the Corrected Total Bid Price for comparison purpose only.

The adjustments will be applied taking the average price quoted by other lowest two evaluated

substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employer in accordance with sub-para (a) hereof.

4. Eligibility and Qualification

Eligibility and Qualification information described here below must be met by the legal entity(ies) comprising the Bidder, and not the Bidder's/JV partner's sister or parent companies, subsidiaries or affiliates.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
1. Eligibility							
1.1	PEC Licencing	Licencing by Pakistan Engineering Council (PEC) in accordance with paragraph (b) of Sub-Clause IB.3.1 (b).	must meet requirement	N/A	must be PEC Licensee	must be PEC Licensee in the category C-3 or above	Provisional/ Standard PEC Licence. Foreign Constructor must submit JV Agreement with Pakistani Constructor.
1.2	Pakistani Constructor's Tax Registration	Requirement of Pakistani Constructor on Active Taxpayer List (ATL) of FBR in accordance with paragraph (c) of Sub-Clause IB.3.1(c).	must meet requirement	N/A	must meet requirement	N/A	Extracts of ATL
1.3	Debarment/ Blacklisting	Not having been debarred/blacklisted in accordance with paragraph (d) of Sub- Clause IB.3.1.	Must meet requirement	N/A	Must meet requirement	N/A	Undertaking in the Letter of Bid
2. Pending Litigation							
2.1	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 3.1 below and assuming that	Must meet requirement	N/A	Must meet requirement	N/A	Form CON – 1

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
		all pending litigation will be resolved against the Bidder					
3. Financial Situation and Performance							
3.1	Financial Capabilities	(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as Eq. PKR 150 Million for the subject contract(s) net of the Bidders other commitments	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 3.1, FIN-3.2, FIN-3.3, with attachments
		(ii) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	Must meet requirement	N/A	N/A	

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
		(iii) The audited balance sheets (having UDIN) or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last three year shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.	Must meet requirement	N/A	Must meet requirement	N/A	
3.2	Average Annual Turnover	Minimum average annual turnover of Eq. PKR 900 Million calculated as total certified payments received for contracts in progress and/or completed within the last three (03) years.	Must meet requirement	Must meet requirement	N/A	Must meet 50% of the requirement	Form FIN – 3.1, FIN-3.2, FIN-3.3, with attachments
4. Experience							
4.1	General Experience¹	Experience under works contracts in the role of prime Contractor, JV member, Subcontractor for at least ten (10) years	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP-1 with attachments
4.2	Experience in	Minimum two (02)	Must meet	must meet	N/A	N/A	

¹ To substantiate the above, Bidder shall submit authenticated certificate and other relevant documents.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
	Contracts of Similar Size and Nature²	contracts of similar nature and complexity completed over last ten (10) years each amounting to not less than 450 million or above.	requirement	requirement			

² To substantiate the above, Bidder shall submit authenticated, Taking-Over Certificates, /, Defects Liability Certificates and other relevant documents.

5. Personnel

The Bidder must demonstrate that it has the suitably qualified personnel for the key positions that meet the following requirements and will be made available for this contract as per requirements:

Sr. No.	Position	Degree Requirements	Experience In Similar Work [years]
1	Project/Construction Manager (01 No.)	BSc Civil Engineering	10
2	Associate Engineers (Civil) (02 Nos.)	D.A.E (Civil)	05
3	HSE/Environmentalist	BSc Engineering	05

The Bidder shall provide details of the above-mentioned personnel that the Bidder considers appropriate to perform the Contract together with their academic qualifications and experience. The Bidder shall also complete the Forms PER-1 and PER-2.

6. Equipment

The Bidder must demonstrate that it has owned the following key equipment:

Sr. No.	Equipment Type	*Minimum Numbers Required
1	Dumpers	1
2	Excavator	1
3	Concrete Vibrator	1
4	Pipe Scaffolding	5,000 Rft
5	Shuttering (Steel/Ply Sheet>18mm thickness)	2,000 Rft
6	Steel Cutter Machine	1
7	Roller/Compactor	1
8	Water Sprinkler and Water Tanker	1
9	Generator for Site (15 KVA at least)	1
10	Light Transport	2
11	Barricades (corrugated sheets and water filled barrier)	2,000 Rft

* These are the minimum requirements. However, the Bidder should have sufficient resources to complete the Project within scheduled time. The Bidder shall provide details of proposed items of equipment using the Forms provided under Schedule-E to Bid. The Bidder shall also submit an 'Undertaking for access to all these equipment.

Bidders Qualification Forms

To establish its qualifications to perform the contract in accordance with Section (Evaluation Criteria and Qualification Forms) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI -1.1

Bidder Information Form

Date: _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

Bidder's name
In case of Joint Venture (JV), name of each member:
Bidder's country of registration: <i>[indicate country of Constitution]</i>
Bidder's year of incorporation:
Bidder's legal address [in country of registration]:
Bidder's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents, in case of JV, JV agreement, in accordance relevant provisions of withSub-Clause IB 3.1 or .Sub-Clause IB 12.2 (e).

Form ELI -1.2

**Bidder's JV Information Form
(to be completed for each member of Bidder's JV)**

Date: _____

Bid Reference No. (if any) and title: _____
Page _____ of _____ pages

Bidder's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____

Form CON – 1**Pending Litigation**

Bidder's Name: _____

Date: _____

JV Member's Name _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

Pending Litigation, in accordance with Eligibility and Qualification Criteria			
<input type="checkbox"/> No pending litigation in accordance with Eligibility and Qualification Criteria, Sub-Factor 2.1. <input type="checkbox"/> Pending litigation in accordance with Eligibility and Qualification Criteria, Sub-Factor 2.1 as indicated below.			
Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Eq. PKR (exchangerate)
		Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
		Contract Identification: Name of Employer: Address of Employer: Matter in dispute: Party who initiated the dispute: Status of dispute:	

Form FIN – 3.1:
Financial Situation and Performance

Bidder's Name: _____
 Date: _____
 JV Member's Name _____
 Bid Reference No. (if any) and title: _____
 Page _____ of _____ pages

1. Financial data

Type of Financial information in (currency)	Historic information for previous three (03) years, (amount in currency, currency exchange rate, equivalent PKR)		
	Year 1	Year 2	Year 3
Statement of Financial Position (Information from Balance Sheet)			
Total Assets (TA)			
Total Liabilities (TL)			
Total Equity/Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital (WC)			
Information from Income Statement			
Total Revenue (TR)			
Profits Before Taxes (PBT)			
Cash Flow Information			
Cash Flow from Operating Activities			

*Refer to IB 14.2 for the exchange rate

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for last three year pursuant to Eligibility and Qualification Criteria, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).
- (b) be independently audited or certified in accordance with local legislation.
- (c) be complete, including all notes to the financial statements.
- (d) correspond to accounting periods already completed and audited.

Attached are copies of financial statements¹ for the last three (03) years required above; and complying with the requirements

3. Average Annual Construction Turnover

Applicant or each partner of a JV must fill in this form.

Annual Turnover Data for Last 3 Years	
Year	Amount (PKR)
Average Annual Turnover:	

The information supplied should be the Annual Construction Turnover of the Applicant or each member of a JV in terms of the amounts billed to clients for each year for contracts in progress or completed.

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of bid, the reason for this should be justified.

Form FIN – 3.2:
Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

Each Applicant or partner of a JV must fill in this form.

No.	Source of financing	Amount (Eq. PKR)
1		
2		
3		
4		
Total		
Current Commitments [as per Form FIR – 2]		
Net Financial Resources		

Form FIN – 3.3:**Current Contract Commitments / Works in Progress**

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Each Applicant or partner of a JV must fill in this form.

Current Contract Commitments					
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Eq. PKR]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Eq. PKR /month])
1					
2					
3					
4					
5					
Total Value of Outstanding Work [PKR Equivalent]					

Form EXP – 1: Experience in Contracts of Similar Size and Nature

Each Bidder or partner of a JV must fill this form.

Fill out one (1) form per contract.

Contract of Similar Size and Nature	
Name of Firm:	
Contract No	Contract Identification
Award Date:	Completion Date:
Total Contract Amount	in respective currency _____: in PKR Equivalent*:
If partner in a Joint Venture, specify participation of total contract amount	Percentage share in Total: Corresponding Amount (in PKR):
Employer's name Address Telephone number Fax number E-mail	
Description of the Similarity in Accordance with Eligibility and Qualification Criteria, Sub-factor 4	

* Converted to PKR at the rate of exchange at the date of contract.

Form PER - 1: Proposed Personnel

The Bidder shall provide the names of suitably qualified personnel to meet the specified requirements stated in Eligibility and Qualification Criteria, **Sub-factor 5**. The data on their experience should be supplied using the Form below for each candidate.

1.	Title of Position*
	Name
2.	Title of Position*
	Name
3.	Title of Position*
	Name
4.	Title of Position*
	Name
7.	Title of Position*
	Name

*As listed in Eligibility and Qualification Criteria, **Sub-factor 5**.

Form PER - 2: Resume of Proposed Personnel

Position		
Personnel Information	Name	Date of birth
	Professional qualifications along with PEC registration No. (if applicable):	
	Total Work Experience [Years]:	Experience in Similar Work [Years]:
Present Employment	Name of Employer	
	Address of Employer	
	Telephone	Contact (manager / personnel officer)
	Fax	E-mail
	Job title	Years with present Employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Project/Position/Relevant Technical and Management Experience

**LETTER OF BID
AND
SCHEDULES TO BID**

LETTER OF BID

To: Manager Procurement
Special Technology Zones Authority (STZA)
Plot No 61, State Life Tower, 16th Floor, F-7/4, Islamabad.

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Specifications, Schedules to Bid including Bill of Quantities, Drawings and Addenda Nos. _____ for the execution of the Works, "Infrastructure Development of Islamabad Technopolis", we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the said Bidding Documents and Addenda for the sum of PKR _____ (Pak Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We meet the eligibility requirements in accordance with IB.3.
3. We, including any Subcontractors for any part of the Contract, are not debarred/ blacklisted by the Employer, any Government/Semi Government/Public Department in Pakistan or foreign country, international organizations or other foreign institutions.
4. Our subcontractors or suppliers for any part of the Contract, if any, shall have nationalities from eligible countries, in accordance with IB.4.4.
5. We understand that all the Schedules attached hereto form part of this Bid.
6. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of PKR _____ (Pak. Rupees _____) drawn in your favour or made payable to you and valid for a period of _____ days beginning from the date Bids are opened.
7. We 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 Contract Data.
8. We agree to abide by this Bid for the period of _____ days, inclusive of 14 days beyond Bid validity period (as mentioned at Sr. No. 6 above) and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
9. 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.
10. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder for the Works.
11. We understand that you are not bound to accept the lowest or any Bid you may receive.
12. We undertake that all the information and documents submitted with the Bid are genuine, and in case of incorrect information or fake documents we shall be liable for punitive action under

— Letter of Bid and Schedules to Bid
the Applicable Law.

Dated this _____ day of _____ 2025

Signature: _____

in the capacity of _____ duly authorized to sign Bids for and on behalf of

(Name of Bidder in Block Capitals)
(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address. _____

Occupation _____

SCHEDULE OF ADJUSTMENT DATA
Schedule of Cost Indexation

Not USED

SCHEDULE OF ADJUSTMENT DATA

Table I. Local Currency (LC)

NOT USED

SCHEDULE OF ADJUSTMENT DATA

Table II. Foreign Currency (FC)

NOT USED

SCHEDULE OF ADJUSTMENT DATA

Table III. Foreign Currency Requirements

NOT USED

SCHEDULE OF ADJUSTMENT DATA

Table IV. Summary of Payment Currencies

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 as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices as given 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 (direct and indirect) and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder. Additional/reduced duties, taxes excluding direct taxes like income tax, and levies due to subsequent additions or changes in legislation shall be reimbursed/ deducted as per Sub Clause 13.6 [Adjustment for Changes in Laws] of the Conditions of Contract.
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.
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, or the same shall be determined by the Engineer in accordance with Clause 13, General Conditions.
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 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 13.4 of General Conditions of Contract.
8. The following abbreviations for units have been used in Bill of Quantities:

Units	Abbreviations
Cubic Feet	= Cft
Square Feet	= Sft
Running Feet	= Rft
Kilogram	= kg
Provisional Sum	= PS
Lump-Sum	= LS

BILL OF QUANTITIES
SUMMARY

Bill No.	Description	Amount (Rs.)
1	Boundary wall (Length 5 km)	
2	Entrance Gate, Security and Site office (01 Nos)	
3	Engineer's Facilities	
4	Provisional Sum	4,815,000
TOTAL COST		

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1	Compaction of Natural Ground upto 95% Modified AASHTO density all as specified.	Sft	340,980.00			
2	Cutting of ordinary / hard soil of roadway / Runway / Hard standing stripping etc, and dispose off / collect spoil within 5 KM, complete, all as specified.	Cft	1,436,667.00			
3	Making Embankment, with the specified /approved soil obtained from Roadway (Cutting) excavation including Loading within Five KM, compaction in 150mm layers upto 95% Modified AASHTO density, and dressing to required profile and shape as specified.	Cft	1,436,667.00			
4	Making Embankment, with the specified /approved soil obtained from borrow excavation including Loading within Five KM, compaction in 150mm layers upto 95% Modified AASHTO density, and dressing to required profile and shape as specified.	Cft	2,350,694.00			

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
5	Add for carrying soil / rock demolished brick bats, bricks, sand and bitumen etc.), by any means, for each subsequent 1000 M or part thereof (specified in items 1-1to1-15), unload and stack or spread.	Cft	2,350,694.00			
6	Excavation as in Ordinary/ Hard Soil upto 1.5 M depth, in foundauon and pipe trenches upto 1.5 M wide, in shafts, wells and independent holes upto 30 sqm each and throw earth clear of edges of excavation within 10 m. Timbering to be paid extra (Foundation and Trench over 1.5 M widths will be treated as Areas).	Cft	227,535			
7	Excavation over areas as in Ordinary/Hard Soil upto 1.5 M depth, in foundation / excavations, throw earth clear of edges of excavation within 50 M.	Cft	2,745			
8	Providing and laying of sand cushion under floor.	Cft	15,030			
9	Providing and laying of lean concrete using crushed or broken stone graded; 1:3:6, all as specified. (Blinding)	Cft	15,006			
10	Providing and laying of PCC with 3000 psi compressive cylindrical strength in all non-structural elements including formwork and fair faces to exposed surfaces. (Foundation)	Cft	57,255			

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
11	Providing and laying of RCC with 3500 psi compressive cylindrical strength all as specified in foundations, independent column footings, and rigid floors etc., including form work. Reinforcement measured and paid separately. (Additional RCC Columns foundation, Provisional Quantity)	Cft	9,012			
12	Providing and laying of RCC with 3500 psi compressive cylindrical strength all as specified in beams, columns, stairs, posts, struts, piers, lintels and the like., including form work. Reinforcement measured and paid separately. (Additional RCC Columns, Provisional Quantity)	Cft	9,312			
13	Supply and fix, bars round, using deformed bars Grade-60, including cutting, bending, binding and placing reinforcement in position. (Additional RCC Columns, Provisional Quantity)	Kg	74,803			
14	Supply and fix, Wire Netting, Iron galvanized 50 mm x 50 mm mesh, 10 SWG and fixed with tinned tacks, G.I staples etc., all as required. (Additional RCC Columns, Provisional Quantity)	Sft	13,910			

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
15	Tube, Water Quality (GI) with all fittings (i.e. sockets, bends, lees, elbows where required) and laid complete in trenches (excluding excavation) or fixed to wall, floor {surface or concealed) and ceiling etc., including caps and plugs as required 80mm dia (medium), supply and fixing. (Vertical and horizontal posts of wire netting for Nulla Crossings, Provisional Quantity)	Rft	3,015			
16	Supply and fix, guard bars, grills, railing, ladders brackets, hooks hold fasts and frames etc .. cut to dead length, reduced to size, shape, figure etc., including punching/drilling holes if necessary and fixing, assembling by welding or with the use of bolts, nuts, rivets washers etc., and erection/fixing in position including making good the disturbed surface.	Kg	22,660			
17	Supply and fix, barbed wire, galvanized 12 gauge, 2 strands 4 points barbs at 75 mm apart fixed with staples, nails etc., and connect up ends complete.	Rft	37,040			
18	Supply and fix, Concertina Wire / Razor wire, single coil, 12 gauge galvanized wire, loop dia 0.452 to 0.990M, complete, all as specified.	Rft	9,260			

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
19	Burnt brick work, in wall over 115 mm thick, laid and jointed in CM 1:3, straight or to curve with inner radius of 3m and over, upto 4.25 m depth.	Cft	41,877			
20	50mm thick P.C.C 1:2:4, using 3mm aggregate and finished smooth with steel float, covered with two coats, each of hot bitumen @ 0.75 kg per Sqm and blinded with 0.012 cum of sand per Sqm.	Sft.	7,628			
21	Burnt brick work, in walls 115 mm thick, laid and Jointed in CM 1:3, straight or to curve with inner radius of 6m and over. upto G.F roof level.	Cft	27,607			
22	Cement Plaster 1:3, 19 mm thick finished as specified (Basement, GF, FF and 2nd floor).	Sft.	43,197			
23	Providing and laying, Gutka facade tiles of any colour and size, all as specified.	Sft.	43,197			
24	Supply and fix, Stainless steel Hand railing using 3/4" to 2" dia, 16 to 18 Gauge pipe with all fittings etc. as per specifications. (Horizontal three rows of 2" dia pipe and vertical post at 4' c/c)	Rft	2,560			

BILL NO. 1: BOUNDARY WALL TYPE A, B & C

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
25	Supply and fixing of pre cast boundary wall consisting of H Shape Columns (6" x 7"), Planks (2" x 12"), Stripes (2" x 6") etc. (Name of Islamabad technopolis embossed (colour and style approved by th Engineer) on every top plank of the boundary wall) complete in all respect as per drawings, specifications an as directed by the engineer except foundation.	Rft	9,260			
26	Turfing of boundary wall embankments for stability of slopes with grass (best quality) along with clayey soil (where required) including ploughing, laying, settling, watering and maintenance till completion of defect liability period.	Sft	450,000			
TOTAL AMOUNT						

BILL NO. 2: ENTRANCE GATE, SECURITY AND SITE OFFICE (01 NOS)

Sr. No	DESCRIPTION	AMOUNT (PRK)
a.	Structure Works	
b.	Architectural Works	
c.	Plumbing Works	
d.	Electrical Works	
		sub-total: (I)

BILL NO. 2a: ENTRANCE GATE, SECURITY AND SITE OFFICE (Structure Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1	Excavation over areas as in Ordinary/Hard Soil upto 1.5 M depth, in foundation / excavations, throw earth clear of edges of excavation within 50 M.	Cft	29,431.72			
2	Earth filling as in Ordinary or hard soil, filling in foundation, pipe trenches, shafts, wells, independent holes, under floors or around plinths etc., 1.5 M below or above Ground Level (GL), with spoil obtained from excavation in trenches/over areas within 50 M including watering and compaction in 150 mm layer and dressing to required profile and shape.	Cft	21,063.59			
3	Termite proofing of New buildings with approved chemicals except joinery.	Sft	5,172.00			
4	Providing and laying of lean concrete using crushed or broken stone graded 1:4:8 , all as specified.	Cft	943.36			
5	Providing and laying of RCC with 4000 psi compressive cylindrical strength all as specified in foundations, independent column footings, and rigid floors etc. including form work as specified. Reinforcement measured and paid separately.	Cft	7,073.28			
6	Providing and laying of RCC with 4000 psi compressive cylindrical strength all as specified in roof slabs, landings, walls, plinth beams and bands, etc .. including form work. Reinforcement measured and paid separately.	Cft	8,342.19			

BILL NO. 2a: ENTRANCE GATE, SECURITY AND SITE OFFICE (Structure Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
7	Providing and laying of RCC with 4000 psi compressive cylindrical strength all as specified in beams, columns, stairs, posts, struts, piers, lintels and the like. Reinforcement measured and paid separately.	Cft	18,677.01			
8	Supply and fix, bars round, using deformed bars Grade-60 , including cutting, bending, binding and placing reinforcement in position.	Kg	172,919.49			
9	Damp Proof Course (OPC) 50mm thick P.C.C 1:2:4, using 3mm aggregate and finished smooth with steel float, covered with two coats, each of hot bitumen @ 0.75 kg per Sqm and blinded with 0.012 cum of sand per Sqm.	Sft	15.19			
10	Two coat of water proofing compound, using Bitumen 10/20, applied hot @ 4.90 Kg /10sqm.	Sft	1,480.00			
11	Clearing and Grubbing all as specified	Sft	30,900.00			
12	Compaction of Natural Ground upto 95% Modified AASHTO density all as specified.	Sft	55,620.00			
13	Cutting of ordinary / hard soil of roadway / Runway / Hard standing stripping etc, and dispose off / collect spoil within 5 KM, complete, all as specified.	Cft	172,557.00			

BILL NO. 2a: ENTRANCE GATE, SECURITY AND SITE OFFICE (Structure Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
14	Making Embankment, with the specified /approved soil obtained from Roadway (Cutting) excavation including Loading within Five KM, compaction in 150mm layers upto 95% Modified AASHTO density, and dressing to required profile and shape as specified.					
15	Making Embankment, with the specified /approved soil obtained from borrow excavation including Loading within Five KM, compaction in 150mm layers upto 95% Modified AASHTO density, and dressing to required profile and shape as specified.	Cft	172,557.00			
16	Add for carrying soil / rock demolished brick bats, bricks, sand and bitumen etc.), by any means, for each subsequent 1000 M or part thereof (specified in items 1-1 to1-15), unload and stack or spread.	Cft	56,943.00			
17	Bottoming/ sub base of any thickness as specified using Granular Sub Base Material laid and compacted to 100% modified AASHTO density by appropriate compacting equipment and roller.	Cft	56,943.00			
			16,200.00			
TOTAL AMOUNT						

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1	Burnt brick work, in wall over 115 mm thick, laid and jointed in CM 1:4, straight or to curve with inner radius of 6m and over. i)upto Plinth ii)upto G.F roof level. iii)upto 1st floor roof level. iv)upto 2nd floor roof level.	Cft	195.86			
		Cft	1,305.75			
		Cft	1,191.27			
		Cft	3,016.94			
2	Burnt brick work, in wall 115 mm thick, laid and jointed in CM 1:3, straight or to curve with inner radius of 6m and over. i)upto G.F roof level. ii)upto 1st floor roof level. iii)upto 2nd floor roof level.	Cft	217.35			
		Cft	226.49			
		Cft	240.49			
3	Cement Plaster 1:3, 13 mm thick finished as specified (Basement, GF, FF and 2nd floor).	Sft	2,138.85			
4	Cement Plaster 1:4, 13 mm thick finished as specified (Basement, GF, FF and 2nd floor).	Sft	10,377.47			
5	Cement Plaster 1:4, 19 mm thick finished as specified (Basement, GF, FF and 2nd floor).	Sft	10,383.45			
6	Providing and laying, single layer of 300 mm x 150 mm x 38 mm Flat brick tiles in roof , jointed and pointed in CM 1:3.	Sft	1,843.80			
7	75mm thick mud on roofs including 25mm thick mud plaster and leaping.	Sft	1,843.80			
8	Providing and laying bond breaking material using 0.102 mm thick polythene film , over normal thickness of concrete floor,	Sft	1,843.80			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
9	Supply and fix, Poly Extruded board 50 mm thick density 32-35 Kg /m³ , fixed on as roof insulation with ship lap edges having any size of sheet, all as specified.	Sft	1,843.80			
10	Providing and laying, 4mm thick Torch Bonding Bituminous Membrane [Poly Propylene (PP)/ Poly granular (PG)] with self adhesive side lap 75mm, end lap 100 mm, complete as specified.	Sft	1,843.80			
11	Supply and fix, Solid Flush door , Teak veneered, 38 mm thick including mongery, without chowkats.	Sft	534.45			
12	Supply and fix, 1st Class Soft Wood (Deodar) Framed and Panelled Doors , gates etc., including chowkats, hold fasts, and mongery, all as specified, 38 mm thick.	Sft	51.45			
13	Supply and fix, Kitchen Exhaust Hood made of Teak Veneered board with 22BG, PGI sheet fixed on inner side complete as per Information Sheet IS Arch No 17, 18 and 19, including all fitting / fixture as specified.	Rft	7.35			
14	Supply and fixing of Aluminium Swing door, Double shutter, Premium Quality of Anodized Aluminium extruded section in any size, colour and texture as specified including fixing on concrete, wooden or steel frames, complete except glass, lock and handle.	Sft	195.30			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
15	Supply and fixing of Aluminium Sliding window, Premium Quality , of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings except glass.	Sft	471.45			
16	Supply and fixing of Aluminium Fixed window, Premium Quality , of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings except glass.	Sft	471.45			
17	Supply and fixing of Aluminium fly/ insects screening with mesh (Deluxe and premium model), of Anodized extruded section including fixing on concrete, wood or steel frames with all necessary fittings, complete all as specified.	Sft	471.00			
18	Supply and fix, Plain Sheet glass 5mm thick , fixed to timber or steel sashes with hard /soft wood beads and screws as specified.	Sft	990.15			
19	Supply and fix, Aluminium door lock, (Premium model) Anodized Bronze.	Each	8.00			
20	Supply and fix, Aluminium door closer , Premium model Anodized Bronze.	Each	8.00			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
21	Supply and fix Aluminium door Handle , Anodized bronze in any design and pattern.	Each	8.00			
22	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 115 mm walls , single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc., including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	Rft	195.30			
23	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 230 mm walls , single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc., including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	Rft	282.98			
24	Supply and fix, Stainless steel Hand railing using $\frac{3}{4}$ " to 2" dia, 16 to 18 Gauge pipe with all fittings etc. as per specifications.	Rft	78.75			
25	Supply and fix, guard bars, grills, railing, ladders brackets, hooks hold fasts and frames etc .. cut to dead length, reduced to size, shape, figure etc., including punching/drilling holes if necessary and fixing, assembling by welding or with the use of bolts, nuts, rivets washers etc., and erection/fixing in position including making good the disturbed surface. (Steel Gate)	Kg	6,820.00			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
26	Providing and laying of cement concrete 1:4:8 using crushed or broken stone graded as specified.	Cft	216.30			
27	Providing and laying, PCC 1:2:4 laid in floor , slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone. (for GF, 1st,2nd floor and lower ground /basement 1st, 2nd, 3rd).	Cft	356.45			
28	Providing and laying, 75 mm thick PCC 1:2:4 using crushed stones, surface finished, smoothened with cement and steel trowel, including form work as plinth protection .	Sft	284.55			
29	Supply and fix, 8-10 mm thick and 40 mm wide marble patty , as dividing strips in floors.	Rft	171.15			
30	Providing and laying Premium quality granite tiles (Chilly red, Coffee brown, Gibrana, Baltic brown, Red Ruby, Cherry pink, Cherry brown), of any size, 20 mm thick including setting, jointing, pointing and chemical polishing complete all as specified.	Sft	217.35			
31	Providing and laying Deluxe quality marble tiles (Fancy Royal boticina, Parlino crystal boticina, Ziarat water shade, Parlino plane boticina, Parlino micro boticina, Ziarat white) , of any size, 20 mm thick including setting, jointing, bonding and chemical polishing, complete all as specified	Sft	1,479.48			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
32	Providing and laying Deluxe quality tiles of any make, size exceeding 1600 sq cm but not exceeding 3700 sq cm , including setting, jointing and bonding, complete all as specified.	Sft	420.00			
33	Providing and laying Premium quality tiles of any make, size exceeding 3700 sq cm , including setting, jointing and bonding, complete all as specified.	Sft	1,614.76			
34	Providing and laying, Mosaic tiles, 300 mm x 300 mm x 25 mm of white cement, on walls and floors laid, set in CM (1:2) and joints grouted with white / coloured cement, chemical polished, complete.	Sft	824.25			
35	Providing and laying, 13 mm thick terrazzo floor , using marble chips (1:2) with White/ Coloured cement, including cutting and rubbing, (except polishing). (for GF, 1st , 2nd floor and lower ground /basement 1st, 2nd, 3rd).	Sft	361.20			
36	Providing and laying, Artificial Stone facade tiles , of any colour and size, all as specified.	Sft	1,082.55			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
37	Providing and fixing. Aluminium Cladding upto any height with sheets of any size and shape using 0.5 mm thick Aluminium sheet, 3mm thick PE (polyethylene) or 0.5 mm thick AJuminium sheet PVOF (Poty Vinyl Deni Flouride) coated, in any colour I texture with framing, complete, all as specified	Sft	22,041.45			
38	Surface preparation by using putty on plastered wall or ceiling to form smooth base for distemper, plastic emulsion paint etc., all as specified.	Sft	12,516.31			
39	1st Coat of painting on new or old work such as walls including all detached attachment with Plastic Emulsion paint . 2nd and subsequent coat. (03-Coats)	Sft	12,516.00			
40	Lacquer polish to wood work (complete rate).	Sft	1,171.80			
41	1st Coat of Weather Resistant paint on exterior wall on new surface. 2nd and subsequent coat. (02-Coats)	Sft	1,038.34			
42	1st Coat of painting on new or old work such as iron guard bars, iron bars gates, railing and similar open work with Synthetic Enamel paint . 2nd and subsequent coat. (02-Coats)	Sft	842.86			

BILL NO. 2b: ENTRANCE ATE, SECURITY AND SITE OFFICE (Architectural Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
43	Supply and fix, Dampa Ceiling , along with necessary components for fixing direct or suspending from the soffit complete, including provision of opening for light.	Sft	244.73			
44	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board (Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c the cost of 1mm thick PVC tape duly hot pressed on all edges of the shutters/ panels/ drawers etc., with machine i/c the cost of self closing box type hinges,handles,screws,Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge	Sft	121.80			
45	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects. 2' deep,with back	Sft	37.80			
46	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects. 1-1/2' deep,with back	Sft	30.45			
				TOTAL AMOUNT		

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1	Supply and Fix Water Closet (WC) of standard quality, European pattern complete (coupled) all as specified.	Each	2.00			
2	Supply and Fix, WC Asiatic pattern not less than 550 mm with flushing system complete all as specified	Each	6.00			
3	Supply and Fix Wash Hand Basin (WHB) of standard quality, including pedestal, waste pipe, bolts bracket and coupling etc , complete all as specified.	Each	8.00			
4	Supply and fix, Sink Scullery of Stainless Steel, with single drainage board, shallow or deep upto 6000 sqcm, including all fixing, fittings, accessories etc.	Each	2.00			
5	Tee Stop cock brass, CP, screw down, high pressure, fancy type, 15 mm dia, supply and fixing.	Each	28.00			
6	CP Mixer, 15mm dia, fancy head, any pattern and shape, screw down, high pressure, lettered Hot and cold with long screw channels and fly nuts complete, supply and fixing.	Each	11.00			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
7	Supply and fix, Chromium Plated (CP) shower rose of any dia, fixed or adjustable.	Each	1.00			
8	Supply and fix, Mirror, /any shape and pattern, circular, rectangular, oval etc.) upto 2700 sqcm, 5 mm thick, with plastic frame of any colour edges ground, complete all as specified.	Each	8.00			
9	Supply and fix, Plastic shelf. in any size and shape, with plugs and screws, complete all as specified.	Each	8.00			
10	Supply and fix, Soap / sponge tray any shape, pattern and size with plugs, screws etc. complete all as specified.	Each	8.00			
11	Supply and fix, Towel rail, CP, single rod, any pattern, shape and size with plugs, screws etc. complete all as specified.	Each	8.00			
12	Bib cock, Brass, CP, fancy type, screwed down, BSS, 15 mm dia, Supply and fixing. toilet bib cock (Double).	Each	8.00			
13	Supply and Fix, Toilet shower, 15 mm dia.	Each	8.00			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
14	Excavate, to dispose off surplus spoil on site, make good the surface disturbed, supply (230 mm x 230 mm x 100 mm out let), surface gullies and bed, and surround in 100mm of PCC 1:4:8, provide 100 mm x 125 mm rounded PCC 1:4:8, curb or 900 mm x 900 mm x100 mm dished PCC 1:4:8, top and 250 x 250 mm galvanized CI, loose grating, complete.					
15	Manholes, complete, rectangular or circular as described, exceeding 600 mm deep but not exceeding 1800 mm deep, with iron steps (in angles 380 mm centres), 150 mm thick RCC walls {Except manhole cover}.	Each	6.00			
16	Supply and fix, 100 mm dia floor trap, including reducer etc. complete all as specified.	Cft	150.00			
17	Electric Geyser, 27 lit capacity, complete with thermostat, safety valve, supply and fixing	Each	18.00			
18	Polyethylene Pipe (PE-100), 40 mm dia, Class PN-10 / SDR-17 (excluding cost of excavation), supply and fixing.	Each	3.00			
19	PPR pipe, with all fittings i.e. socket, bend, tee, elbow, where required, 50 mm dia, Class PN-20 (excluding excavation). supply and fixing.	Rft	150.00			
		Rft	10.00			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
20	PPR pipe, with all fittings i.e. socket, bend, tee, elbow, where required, 40 mm dia, Class PN-20 (excluding excavation). supply and fixing.	Rft	125.00			
21	PPR pipe, with all fittings i.e. socket, bend, tee, elbow, where required, 32 mm dia, Class PN-20 (excluding excavation). supply and fixing.	Rft	114.00			
22	PPR pipe, with all fittings i.e. socket, bend, tee, elbow, where required, 25 mm dia, Class PN-20 (excluding excavation). supply and fixing.	Rft	281.00			
23	Water tank Polyethylene (PE) horizontal/ (Vertical), 300 gallons capacity, supply and fixing.	Each	2.00			
24	Supply and fix, u-PVC, Soil and waste pipe, complete, with plain end and solvent cement joint, all as specified					
	200 mm	Rft	100.00			
	160 mm	Rft	170.00			
	110 mm	Rft	150.00			
	75 mm	Rft	166.00			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
25	Supply and fix, u-PVC Vent pipe 75 mm dia, complete with plain end and solvent cement joint, all as specified.	Rft	96.00			
26	Supply and fix, guard bars, grills, railing, ladders brackets, hooks hold fasts and frames etc. cut to dead length, reduced to size, shape, figure etc., including punching/drilling holes if necessary and fixing, assembling by welding or with the use of bolts, nuts, rivets washers etc., and erection/fixing in position including making good the disturbed surface.	Kg	150.00			
27	Supply and fix, uPVC Vent Cowl 75 mm dia on top of ventilating pipes.	Each	5.00			
28	Globe valves, gunmetal, screwed both ends, complete with steel handle Class-150, 25 mm dia, supply and fixing.	Each	5.00			
29	Globe valves, gunmetal, screwed both ends, complete with steel handle Class-150, 40 mm dia, supply and fixing.	Each	2.00			
30	Providing and laying, RCC 1:2:4 Manhole cover (precast) complete with angle iron frame, embedded in concrete, all as per Information Sheet # Svcs-341	Each	6.00			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
31	Excavation over areas as in Ordinary/ Hard Soil upto 1.5 M depth, in foundation/ excavations, throw earth clear of edges of excavation within 50 M.	Cft	1,975.00			
32	Earth filling as in Ordinary or hard soil, filling in foundation, pipe trenches, shafts, wells, independent holes, under floors or around plinths etc., 1.5 M below or above Ground Level (GL), with spoil obtained from excavation in trenches/over areas within 50 M including watering and compaction in 150 mm layer and dressing to required profile and shape.	Cft	1,580.00			
33	Providing and laying of sand cushion under floor. (Under pipes)	Cft	197.50			
<u>SEPTIC TANK</u>						
34	Earth filling as in Ordinary or hard soil, filling in foundation, pipe trenches, shafts, wells, independent holes, under floors or around plinths etc., 1.5 M below or above Ground Level (GL), with spoil obtained from excavation in trenches/over areas within 50 M including watering and compaction in 150 mm layer and dressing to required profile and shape.	Cft	115.23			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
35	Excavation as in Ordinary/ Hard Soil upto 1.5 M depth, in foundation and pipe trenches upto 1.5 M wide, in shafts, wells and independent holes upto 30 sqm each and throw earth clear of edges of excavation within 1 Om. Timbering to be paid extra (Foundation and Trench over 1.5 M widths will be treated as Areas).					
36	Providing and laying of PCC 1:3:6 all as specified in walls, partitions, slabs, sills, copings, channels, steps, string courses, corbels, pier caps, hinge stones, mantel pieces, louvers, chimney tops etc., including setting, jointing and pointing.	Cft	576.13			
37	Providing and laying of RCC with 3000 psi compressive cylindrical strength in roof slabs, landings, walls, plinth beams and bands etc. including form work all as specified. Reinforcement measured and paid separately	Cft	11.69			
38	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements (foundation etc.) including form work all as specified. Reinforcement measured and paid separately	Cft	191.71			
		Cft	33.20			

BILL NO. 2c: ENTRANCE GATE, SECURITY AND SITE OFFICE (Plumbing Works)

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
39	Supply and fix, bars round, using deformed bars Grade-60, including cutting, bending, binding and placing reinforcement in position	Kg	612.27			
40	Supply and fix, bars round, using defomed bars Grade-40, including cutting, bending, binding and placing reinforcement in position	Kg	408.18			
41	One coat of water proofing compound, using Bitumen 10/20, applied hot @ 14.68 Kg /10sqm.	Sft	255.58			
42	Providing and fixing of PVC water stopper 225 mm wide and 8 mm thick.	Rft	26.00			
43	Supply and fix, u-PVC Vent pipe 50 mm dia, complete with plain end and solvent cement joint, all as specified.	Rft	6.00			
44	Supply and fix, uPVC Vent Cowl 50 mm dia on top of ventilating pipes.	Each	2.00			
45	Providing and laying, RCC 1:2:4 Manhole cover (precast) complete with angle iron frame, embedded in concrete, all as per Information Sheet # Svcs-341	Each	3.00			
46	Globe valves, gunmetal, screwed both ends, complete with steel handle Class-150, 40 mm dia, supply and fixing.	Each	3.00			
TOTAL AMOUNT						

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1.0	<u>WIRING AND ACCESSORIES</u>					
1.1	Wiring of light or fan point from switch board/dimmer to the point with 3x3/0.91 mm (3/0.036") (P+N+E) PVC insulated single core stranded cables in 25 mm PVC conduit/pipe concealed in walls, columns and slabs including accessories, PVC box, 10 Amp. gang switch 1 or 2 way as required, one for each light or fan and installed as in specifications complete in all respects.	Point	50.00			
1.2	Circuit wiring from DB MCBs to gang switches board and from switch board to switch board with 3x7/0.74 mm (7/0.029") (P+N+E) PVC insulated single core stranded cables in 25mm PVC pipe/conduit concealed in walls, columns and slabs as required complete in all respects.	Point	20.00			
1.3	Wiring for one light point controlled by two way switch, wiring complete with PVC single core cable 1.5 mm ² (P+N+E) in concealed PVC conduit supply and fixing.	Point	60.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1.4	Wiring for switch board from DB MCB or switch board to switch board in conduit surface, concealed, flame proof, with single core PVC insulated cable installed and connected complete (excl conduit) single core cable 2.5mm ² (P+N+E) supply and fixing.	Rft	33.00			
1.5	Wiring for first light plug socket from DB MCB in conduit surface, concealed, flame proof, with single core PVC insulated cable installed and connected complete (excl conduit) single core cable 4mm ² (P+N+E) supply and fixing.	Rft	10.00			
1.6	Wiring for looping of light plug socket in conduit surface, concealed, flame proof, with single core PVC insulated cable installed and connected complete (excl conduit) single core cable 2.5mm ² (P+N+E) supply and fixing.	Rft	33.00			
1.7	Wiring for power plug socket from DB MCB in conduit surface, concealed, flame proof, with single core PVC insulated cable installed and connected complete (excl conduit) single core cable 6mm ² (P+N+E) supply and fixing.	Rft	10.00			
1.8	One gang switch, 10A, 250V supply and fixing	Each	26.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1.9	Same as item 1.10 but two gang 10A	Each	15.00			
1.10	Same as item 1.10 but three gang 10A	Each	26.00			
1.11	Switch, SP, Socket outlet 3 pin 5/10A, Backlite, shuttered pattern complete supply and fixing	Each	26.00			
1.12	Gang Power Socket, 15A, 250 V including PVC/steel back box with proper screws complete, supply & fixing.	Each	15.00			
	Supply, transportaion, storage at site, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, accessories, etc. required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates.					

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
2.0	<u>LIGHT FITTINGS AND FANS</u>					
	Following LED Luminaries of suitable wattage make Philips, GE, Pierlite or approved equivalent suitable for the project requirements. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements. The fitting shall be approved by the Engineer.					
2.1	Light Fixture Type LED Batten Ceiling/surface mounted, 18W complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	2.00			
2.2	Water Tight light fixture LED 20W complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	12.00			
2.3	Down lighter LED 18W complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	35.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
2.4	Locally manufactured decorative gate light with 25W complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	8.00			
2.5	56" ceiling fan sweep (Climax, Pak, Millat) make or approved equivalent capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	4.00			
2.6	Wall bracket fan 18" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	2.00			
2.7	12" exhaust fan sweep (Climax, Pak, Millat) make or approved equivalent, capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	6.00			
2.8	LED Flood Light 120W light fixture IP 65 complete in all respect with all allied accessories. The fitting shall be approved by the Engineer.	Each	6.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
3.0	<u>POWER CABLE</u>					
	-					
3.1	Copper conductor PVC/PVC 600/1000V cables including sockets and connections at both ends with Cu/Brass glands, lugs etc alongwith all accessories. The cable shall be drawn in cable trench or clipped on the wall or pulled in cable tray/PVC pipes or as required or as shown on drawings. (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
	4 core 16 mm ²	Rft	329.00			
3.2	PVC insulated 450/750 Volt grade (Green - Yellow) unarmoured copper cable laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. sockets and connections at both ends with Cu/Brass, glands, lugs etc alongwith all accessories all accessories as required or as shown on drawings (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) as earth continuity conductor (ECC/CPC).					
	1 core 16 mm ²	Rft	329.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
4.0	<u>PVC PIPES</u>					
a)	PVC pipe/conduit Class-B 100 mm dia with accessories suitable for laying multi-core cables.	Rft	329.00			
b)	PVC pipe/conduit Class-D 100 mm dia with accessories suitable for laying multi-core cables on road crossing.	Rft	165.00			
c)	PVC pipe/conduit Class-B 50 mm dia with accessories suitable for laying multi-core cables.	Rft	493.00			
5.0	<u>LV DISTRIBUTION BOARDS</u>					
5.1	Distribution Boards with 14 SWG, IP class 44/54 & RAL 7032 including I/C and O/G following electrical items, foundation/base frame with all installation and operational accessories as per site requirements, as per tender specifications and drawings and as directed by the Engineer.					
(a)	<u>DB- Guard Room</u>	Each	1.00			
-	01 No. 40 Amps TP, MCCB, RC=25kA, Icu=100%Ics					
-	06 Nos. Outgoing 10 Amp MCB, SP, RC=10 kA, Icu=100%Ics					

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
-	03 Nos. Outgoing 20 Amp MCB, SP, RC=10 kA, Icu=100%Ics					
-	03 Nos. spare10/ 20 Amp MCB, SP, RC=10 kA, Icu=100%Ics					
-	03 Nos. space 25 Amp MCB, TP					
-	Indication lights, push buttons, digital ammeter with selector switch, digital voltmeter with selector switch, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.					
6.0	<u>EARTHING AND BONDING</u>					
6.1	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground. The earthing rods shall be completed with fixing clamps etc.	Each	2.00			

BILL NO. 2d: ENTRANCE GATE, SECURITY AND SITE OFFICE (Electrification)						
SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	

BILL NO. 3: PROVISION OF ENGINEER'S FACILITIES

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
<i>The following items shall be provided complete in all respects and in accordance with the special provision of the bidding document and up to the satisfaction of The Engineer / The Employer. Rates for below given items are to be filled-in by the Contractor however, payment will be made as per actual bills in accordance with special provisions.</i>						
1	Providing 20'x10' Porta Cabins at Site with Air Conditioner and 2 in 1 separate washroom Porta Cabin. (1 No. x 9 months)	Per month	9			
2	Running and maintaining Porta Cabins. (1 No. x 9 months)	Per month	9			
3	Providing and maintaining Engineer Office on Rental basis.	Per month	9			
4	Providing Support staff as per satisfaction of the Engineer / The Employer. (3 Nos. x 9 months)	Per month	27			
5	Utility Services (Electricity, Mobile Bill, Courier Service, Water, Gas etc.) for office & Porta Cabin.	Per month	9			
6	Providing following latest model current year Cars on Rent with Fuel & Driver					
i)	TOYOTA YARIS GLI (Automatic Transmission) 1300CC or equivalent (1 No. x 9 months)	Per month	9			
ii)	SUZUKI CULTUS (Aut-o-Gear Shift) 1000CC or equivalent (1 No. x 9 months)	Per month	9			

BILL NO. 3: PROVISION OF ENGINEER'S FACILITIES

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
7	Purchase, registration and supply of brand-new current year 70 cc motor bikes.	Each	3			
8	Providing color laser printer 3 in 1 as approved by the Engineer	Each	1			
9	Providing Black and white A4 printer with automatic Duplex Printing as approved by the Engineer	Each	1			
10	Providing, installing and maintaining Air Conditioner 1.5 Ton Invertor.	Each	3			
11	Providing Latest Generation Laptops as approved by the Engineer	Each	2			
12	Providing Brand New Latest Generation Desktop Computers as approved by the Engineer	Each	1			
13	Providing Data Traveler (6 TB) as approved by the Engineer	Each	1			
14	Providing latest model reputable brand DSLR camera with 18-55mm Lens and 1 TB memory Card as approved by the Engineer	Each	1			
15	Providing Steel Almirah for Documents/Files Storage	Each	1			
16	Providing office furnishing and equipments	Each	1			
17	Providing POL for Bikes	Liters	1,350			
TOTAL AMOUNT						

BILL NO. 4: PROVISIONAL SUM

SR. NO .	DESCRIPTION	UNIT	QUANTITY	RATE (PKR)		AMOUNT (PKR)
				In Figures	In Words	
1.0	TRANSFORMER					
1.1	11/0.415kVA Pole mounted transformer complete with all accessories as per WAPDA specifications and practice as per approved design and specification. 25 kVA	Each	1.00			
2.0	CONNECTION & LINE					
2.1	Provision for the cost of 11kV electrical Over headline to the transformer connection with installation, testing and commissioning including all material, labour, tools, accessories, etc. required for proper completion of each item as per specification of WAPDA/DISCO. (0.5 KM)	Job	1.00			
2.2	Provision for the cost of security deposit and obtaining transformer connection with installation, testing and commissioning including all material, labour, tools, accessories, etc. required for proper completion of each item as per specification of WAPDA/DISCO. (demand notice)	Job	1.00			
TOTAL AMOUNT						

CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 8.3 of the General Conditions, the whole of the Works, and each Section (if any), shall be completed within the Time for Completion for the Works or Section (as the case may be) stated as hereunder and mentioned in Contract Data:

Description	Time for Completion (days)
Whole Works	270 days

[The Bidder shall provide, 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 programme for completion of the whole of the Works may meet Employer's completion targets in days noted above and counted from the Commencement Date (Attach sheets as required for the specified form of Construction Schedule)]

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:

Shall indicate 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. 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

[The Bidder will provide on Sheet E-2 of this Schedule 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.

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Sheet E-3.]

LIST OF MAJOR EQUIPMENT**Owned, Purchased or Leased**

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						

LIST OF MAJOR EQUIPMENT
Equipment details

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	
The following information shall not be applicable for equipment owned by the Bidder		
Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

[This Table shall be used for each item of Equipment separately]

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

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

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of PKR:

Month	Amounts (1,000 PKR)
1	2
1 st	
2 nd	
3 rd	
4 th	
5 th	
6 th	
7 th	
8 th	
9 th	
Bid Price	

CONSTRUCTION CAMP AND HOUSING FACILITIES

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

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. *Site Preparation (clearing, land preparation, etc.).*
2. *Provision of Services.*
 - a) *Electrical power (expected power load, etc.).*
 - b) *Water (required amount and system proposed).*
 - c) *Sanitation (sewage disposal system, etc.)*
3. *Construction of Facilities*
 - a) *Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).*
 - b) *Warehouses and Storage Areas (area required, type of construction and layout).*
 - c) *Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).*
4. *Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).*
5. *Other Items Proposed (Security services, etc.)]*

Note:

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.

INTEGRITY PACT
DECLARATION OF FEES, COMMISSION AND BROKERAGE, ETC.
PAYABLE BY THE BIDDERS/CONTRACTORS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH PAK. RS. 10.00 MILLION OR MORE

Contract No. _____

Dated _____

Contract Value: _____

Contract Title: Infrastructure Development of Islamabad Technopolis

..... [Name of Bidder/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 Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [Name of Bidder/ 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 GoP, except that which has been expressly declared pursuant hereto.

[Name of Bidder/Contractor] certifies 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 GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Bidder/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 GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Bidder/Contractor] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Bidder/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 GoP.

Name of Employer:

Signature:

[Seal]

Name of Bidder/Contractor:

Signature:

[Seal]

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts

1. Name:
2. Father's Name/Spouse's Name:
3. CNIC/NICOP/Passport no.:
4. Nationality:
5. Residential address:
6. Email address:
7. Date on which shareholding, control or interest acquired in the business:
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entities or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

1	Name	2	3	4	5	6	7	8	9	10
		<p>Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/Company/Partnership Firm/Trust/Any other individual, body corporate (to be specified))</p>	<p>Date of incorporation / Registration</p>	<p>Name of Registering Authority</p>	<p>Business Address</p>	<p>Country</p>	<p>Email Address</p>	<p>Percentage of shareholding, control or interest of BO in the legal person or legal arrangement</p>	<p>Percentage of shareholding, control or interest of legal person or legal arrangement in the Company</p>	<p>Identity of Natural Person who ultimately owns or controls the legal person or arrangement</p>

9. Information about Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names)

1	2	3	4	5	6	7	8
Name and surname (In Block Letters)	CNIC No. (in case of foreigner, Passport No)	Father' s / Husband' s Name in Full	Current Nationality	Any other Nationality(ies)	Occupation	Residential address in full or the registered / principal office address for a subscriber other than natural person	Number of shares taken by each subscriber (in figures and words)
Total Number of Shares taken (in figure and words)							

10. Any other information incidental to or relevant to Beneficial Owner(s).

Name & Signature
(Person authorized to issue notice on behalf of the company)

STANDARD FORMS

BS-1

FORM OF BID SECURITY

Security Executed on _____
 (Date)

Expiry on _____
 (Date)

Name of Surety with Address: _____

Name of Principal (Bidder) with Address _____

Penal Sum of Security PKR _____ (Pak Rupees _____)

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 'Employer') 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 _____ for _____ (*Particulars of Bid*) to the said Employer; and

- (1) WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum to the Employer, conditioned as under: that the Bid Security shall remain in force for a period fourteen (14) days beyond the Bid Validity date i.e., upto _____.
- (2) that the Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder request for the return of its Bid Security, or on the expiry of original validity of Bid Security or as extended, whichever is earlier;
- (3) that the Bid Security of the lowest three Bidders comprising the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security; and
- (4) that in the event of failure of the successful Bidder to furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to IB.16 and IB.35 of the Instructions to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer 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 Employer for the faithful performance and proper fulfillment 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.

BS-2

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

PROVIDED ALSO THAT the Employer shall decide, 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 Employer 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
(Schedule Bank/Insurance Company)

WITNESS:

1. _____

Corporate Secretary (Seal)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

PS-1

FORM OF PERFORMANCE SECURITY

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor with address: _____

_____Name of Principal (Contractor) with address: _____

_____Penal Sum of Security (*express in words and figures*) _____

Letter of Acceptance No. _____ Dated _____

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 Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, 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 Employer's above said Letter of Acceptance for _____

(*Name of Contract*) for the _____

(*Name of Project*).

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 Employer, 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 11, Defects After Taking Over, 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 defense under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments

PS-2

and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer'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 Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall decide, 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 Employer 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.

Guarantor

(Schedule Bank/Insurance Company)

WITNESS:

1. _____

Corporate Secretary (Seal)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

Letter of Acceptance

[Letterhead paper of the Employer]

NAME OF CONTRACT: _____

CONTRACT NUMBER: _____

TO : _____

Date: _____

Your Reference: _____

Our Reference: _____

We thank you for your Bid dated _____ for the execution and completion of the Works comprising the above-named Contract and remedying of defects therein, all in conformity with the terms and conditions contained in the Contract.

We have pleasure in accepting your Bid for the Accepted Contract Amount of:

_____ [currency and amount in figures]

In consideration of you properly and truly performing the Contract, we agree to pay you the Accepted Contract Amount or such other sums to which you may become entitled under the terms of the Contract, at such times and as prescribed by the Contract.

We acknowledge that this Letter of Acceptance creates a binding Contract between us, and we undertake to fulfill all our obligations and duties in accordance with the terms of this Contract.

Signature: _____

Signed by: _____

For and on behalf of: _____

Date: _____

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 2024 _____ between, _____ (hereinafter called the "Employer") of the one part and _____ (hereinafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz., _____ 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 witnessed 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, in the order of priority, 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:
 - a) This Contract Agreement;
 - b) The Letter of Acceptance;
 - c) The Letter of Bid;
 - d) The Particular Conditions Part A - Contract Data;
 - e) The Particular Conditions Part B - Special Provisions;
 - f) The General Conditions;
 - g) The Specifications Part A - Specific Provisions;
 - h) The Specifications Part B - Technical Provisions;
 - i) The Drawings;
 - j) The Completed Schedules to Bid including Schedule of Prices;
 - k) the JV Undertaking (if the Contractor is a JV); and
 - l) Any other documents forming part of the Contract

The addenda/corrigenda, if any, (excluding part relating to Instructions to Bidders along with Bidding Data) shall be deemed to have been incorporated at the appropriate places in the "Documents forming the Contract".

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer 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.

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 Contact or

Signature of Employer

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness

Witness

(Name, Title and Address)

(Name, Title and Address)

DAAB-1

DAAB Agreement

Name and details of the Contract _____

This Agreement made the _____ day of _____ [month], _____ [year], between

(“DAAB Agreement”)

Whereas:

- A. the Employer and the Contractor have entered (or intend to enter) into the Contract;
- B. under the Contract, the “**DAAB**” or “**Dispute Avoidance/Adjudication Board**” means the sole member or three members (as stated in the Contract Data of the Contract) so named in the Contract, or appointed under Sub-Clause 21.1 [*Constitution of the DAAB*] or Sub-Clause 21.2 [*Failure to Appoint DAAB Members*] of the Conditions of Contract;
- C. the Employer and the Contractor desire jointly to appoint the above-named DAAB Member to act on the DAAB as:
 - a. the sole member of the DAAB, and where this is the case, all references to the “Other Members” do not apply; or
 - b. one of three members / chairman [*delete the one which is not applicable*] of the DAAB and, where this is the case, the other two persons are:

DAAB-2

_____ (name)	_____ (name)
_____ (address)	_____ (address)
_____ (telephone)	_____ (telephone)
_____ (email/ other contact details)	_____ (email/ other contact details)

the “**Other Members**”; and

D. the DAAB Member accepts this appointment.

The Employer, Contractor and DAAB Member jointly agree as follows:

1. The conditions of this DAAB Agreement comprise:
 - (a) Clause 21 [*Disputes and Arbitration*] of the Conditions of Contract, and any other provisions of the Contract that are applicable to the DAAB’s Activities; and
 - (b) the “General Conditions of Dispute Avoidance/Adjudication Agreement”, which is appended to the General Conditions of the “Conditions of Contract for Construction” Second Edition 2017 published by FIDIC (“GCs”), as amended and/or added to by the following provisions.
2. [Details of amendments to the GCs, if any. For example:
In the procedural rules annexed to the GCs, Rule _____ is deleted and replaced by: “...”]
3. The DAAB Member shall be paid in accordance with Clause 9 of the GCs. The currency of payment shall be _____.
In respect of Sub-Clauses 9.1 and 9.2 of the GCs, the amounts of the DAAB Member’s monthly fee and daily fee shall be:
monthly fee _____ per month, and
daily fee of _____ per day
(or as otherwise set under Sub-Clause 9.3 of the GCs).
4. In consideration of the above fees, and other payments to be made to the DAAB Member in accordance with the GCs, the DAAB Member undertakes to act as DAAB Member in accordance with the terms of this DAAB Agreement.
5. The Employer and the Contractor shall be jointly and severally liable for the DAAB Member’s fees and other payments to be made to the DAAB Member in accordance with the GCs.
6. This DAAB Agreement shall be governed by the law of _____ (if not stated, the law that governs the Contract under Sub-Clause 1.4 of the Conditions of Contract).

DAAB-3

SIGNED by:_____

Print name:_____

Title:_____

for and on behalf of the
Employer

SIGNED by:_____

Print name:_____

Title:_____

for and on behalf of the
Contractor

SIGNED by:_____

DAAB Member

Title:_____

in the presence of

in the presence of

in the presence of

Witness:_____

Witness:_____

Witness:_____

Name:_____

Name:_____

Name:_____

Address:_____

Address:_____

Address:_____

Date:__________
Date:__________
Date:_____

FORM OF MOBILIZATION ADVANCE GUARANTEE/BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer')

has entered into a Contract for _____

(Particulars of Contract)

with _____ (hereinafter called the "Contractor").

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Pak Rupees _____ (PKR _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

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

AND WHEREAS, _____

(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Employer 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 Employer for payment not exceeding the aforementioned amount.

Notice in writing of any default, on the part of the Contractor, of which the Employer at his discretion of making decision, shall be given by the Employer 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 _____ whichever is earlier.

(Date)
The Guarantor's liability under this Guarantee shall not in any case exceed the sum of PKR _____ (Pak Rupees _____).

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

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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
(*Scheduled Bank/ Insurance Company*)

WITNESS:

1. _____

_____ Corporate Secretary (Seal)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

2. _____

_____ Name, Title & Address

CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

The Conditions of Contract comprise two parts:

- (a) General Conditions
- (b) Particular Conditions

General Conditions

These Conditions are the “General Conditions” which form part of the “FIDIC Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer Second Edition (2017 Red book, Reprinted 2022 with amendments)” published by:

International Federation of Consulting Engineers
(Fédération Internationale des Ingénieurs – Conseils) – (FIDIC)
World Trade Center II - Geneva Airport
P. O. Box 311
CH-1215 Geneva 15
Switzerland
Email: fidic@fidic.org, fidic.pub@fidic.org
Website: <https://fidic.org/bookshop>

The successful Bidder after award of Works shall have to provide two (02) copies of above said “General Conditions” for incorporation in the Contract.

Particular Conditions

The Particular Conditions (PC) complement the General Conditions (GC) to specify dates, contractual requirements, and special circumstances related to the Works. The PC consists of two parts, Part A - Contract Data and Part B - Special Provisions. The provisions to be found in the Special Provisions (Particular Conditions - Part B) take precedence over the equivalent provisions found under the same Sub-Clause number(s) in the General Conditions, and the provisions of the Contract Data (Particular Conditions - Part A) take precedence over the Special Provisions (Particular Conditions - Part B).

Part A - Contract Data

Sub- Clause Reference	Data to be Given	Data
1.1.27	Defects Notification Period (DNP):	Three hundred and sixty five (365) days
1.1.31	Employer's name and address:	Special Technology Zones Authority (STZA) Plot No 61, State Life Tower, 16th Floor, F-7/4, Islamabad.
1.1.35	Engineer's name and address:	National Engineering Services Pakistan (Pvt.) Limited NESPAK House, 1-C, Block-N, Model Town Extension, Lahore
1.1.84	Time for Completion:	Two hundred and seventy (270) days for whole of the Works
1.3(a)(ii)	agreed methods of electronic transmission:	For Notices, electronic transmission is not permitted. For other communications, SMS, Email, WhatsApp, or any other such means used by the Employer required for supplementing pace of work/decision making for timely completion of the Project.
1.3(d)	address of Employer for communications:	As stated hereof in Sub-Clause 1.1.31
	address of Engineer for communications:	As stated hereof in Sub-Clause 1.1.35
	address of Contractor for communications:	[To be filled in at the time of signing of the Contract]
1.4	Contract shall be governed by the law of:	Islamic Republic of Pakistan
	ruling language:	English
	language for communications:	English
1.8	number of additional paper copies of Contractor's Documents:	Six (06)

2.1	after receiving the Letter of Acceptance, the Contractor shall be given right of access to all or part of the Site within:	No later than the Commencement Date
2.4	Employer's financial arrangements	The Employer has arranged funds from Federal Government of Pakistan through PSDP
3.2 (e)(ii)	Engineer's Duties and Authority	Variation resulting in an increase of the Accepted Contract Amount in excess of one percent (1%) subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amount
4.2	Performance Security (as percentage of the Accepted Contract Amount in Currencies) percent: currency:	Ten percent (10%) denominated in the currency of the Contract, i.e. PKR or in a freely convertible currency acceptable to the Employer
4.2.1	List of Insurance Companies	All Insurance Companies having minimum A(+) rating as per PACRA/VIS.
4.7.2	period for notification of errors in the items of reference	Twenty Eight (28) days
4.19	period of payment for temporary utilities	each month
4.20	number of additional paper copies of progress reports	Three (03) copies
5.1(a)	maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount)	Thirty percent (30%)
5.1(b)	parts of the Works for which subcontracting is not permitted	None
6.5	Normal working hours on the Site	8.0 hours per day
8.3	number of additional paper copies of programmes	Two (02) copies
8.8 & 14.15(b)	Delay Damages payable for each day of delay	0.1% of the Accepted Contract Amount for delay incompletion of whole of the Works
8.8	maximum amount of Delay Damages	Ten percent (10%) of the Accepted Contract Amount

8.14	Applicability of Incentives for Early Completion	No
12.3	Percentage profit	Ten percent (10%)
13.4.(b)(ii)	percentage rate to be applied to Provisional Sums for overhead charges and profit	Twenty Five percent (25%)
14.2	total Advance Payment	Fifteen percent (15%) of the Accepted Contract Amount excluding Provisional Sums
14.2.1	List of Insurance Companies	All Insurance Companies having minimum A(+) rating as per PACRA/VIS.
14.2.3	percentage deductions for the repayment of the Advance Payment	Deduction shall be made at the amortization rate of 17.5 % of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 2 nd IPC provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 17.5% in the last installment to ensure full repayment.
14.3	period of payment	one month
14.3(b)	number of additional paper copies of Statements	Six (06)
14.3 (iii)	percentage of retention	Seven percent (7%)
14.3 (iii)	limit of Retention Money (as a percentage of the Contract Price)	Five percent (5%)
14.5(b)(i)	Plant and Materials for payment when shipped	None
14.5(c)(i)	Plant and Materials for payment when delivered to the Site	None
14.6.2	minimum amount of Interim Payment Certificate (IPC)	PKR Ten (10) million
14.7(a)	period of payment of Advance Payment to the Contractor	Fourteen (14) days

14.7b(i)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6 [Interim Payment]	Twenty Eight (28) days
14.7b(ii)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment)	Twenty eight (28) days
14.7(c)	period for the Employer to make final payment to the Contractor	Fifty six (56) days
14.8	financing charges for delayed payment	KIBOR+3% per annum for local currency
14.11.1(b)	number of additional paper copies of draft Final Statements	Six (06)
14.15	currencies of payment of Contract Price	PKR only
14.15(a)(i)	Proportions or amounts of Local and Foreign currencies	Not Applicable.
14.15(c)	currencies and proportions for payment of Delay Damages	Not Applicable
14.15(f)	rates of exchange	Not Applicable
17.2(d)	forces of nature, the risks of which are allocated to the Contractor	Nil

19.1	permitted deductible limits: i) insurance required for the Works ii) insurance required for Goods iii) insurance required for liability for breach of professional duty iv) insurance required against liability for fitness for purpose (if any is required) v) insurance required for injury to persons and damage to property vi) insurance required for injury to employees vii) other insurances required by Laws and by local practice	i) Ten percent (10%) of loss amount on each & every loss. ii) Nil iii) Nil iv) Nil v) Nil vi) Nil vii) Nil
19.1	Periods for submission of insurance: a) evidence of insurance b) relevant policies	Not later than the Commencement Date Within twenty eight (28) day from the Commencement Date
19.2.1(b)	additional amount to be insured (as a percentage of the replacement value)	Fifteen percent (15%) of the replacement value (Accepted Contract Amount)
19.2.2	extent of insurance required for Goods amount of insurance required for Goods	from Ex-Works (i.e., works, factory, warehouse, etc.) to delivery at the Site Full replacement value
19.2.3(a)	amount of insurance required for liability for breach of professional duty	Full replacement value of the Works designed by the Contractor
19.2.3(b)	insurance required against liability for fitness for purpose	Yes
19.2.3	period of insurance required for liability for breach of professional duty	Until the date of issuance of Performance Certificate.
19.2.4	amount of insurance required for injury to persons and damage to property	Injury to person and Fatal case: in accordance with Workmen Compensation Act Damage to Property: PKR 2,000,000 without limit to the number of incidents

19.2.6	other insurances required by Laws and by local practice	All insurances as applicable, to the extent of execution of the Project, under Federal and Provincial laws of Islamic Republic of Pakistan
21.1	time for appointment of the DAAB	DAAB shall be made when Dispute arises between the Parties..
21.1	the DAAB shall comprise	Three Members
21.1	List of proposed members of DAAB - proposed by Employer - proposed by Contractor	<i>[to be inserted at the time of signing of the Contract]</i> 1. _____ 1. _____
21.2	Appointing entity (official) for DAAB members	Chairman Pakistan Engineering Council (PEC) from the PEC approved arbitrators.
21.6	Rules of Arbitration	PEC Rules of Conciliation and Arbitration or Pakistan Arbitration Act of 1940, if the former is inactive. The place of Arbitration shall be in the Employer's country: Islamabad

Summary of Sections of the Works

Not Used

Particular Conditions

Part B - Special Provisions

1.1 Definitions

1.1.76 “Specification”

Following is added at the end:

“and consists of two parts i.e.,

- i) “Part A - Specific Provisions”; and
- ii) “Part B - Technical Provisions”.”

1.2 Interpretation

“and” is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).

Sub-paragraph (k) is added:

- (k) The word “tender” is synonymous with “bid” the word tenderer with “bidder”, the words “tender documents” with “bidding documents” and “Schedule of Prices” with “Bill of Quantities”, as applicable.”

1.5 Priority of Documents

The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:

- (a) the Contract Agreement;
- (b) the Letter of Acceptance;
- (c) the Letter of Bid;
- (d) the Particular Conditions Part A - Contract Data;
- (e) the Particular Conditions Part B - Special Provisions;
- (f) the General Conditions;
- (g) the Specification Part A - Specific Provisions;
- (h) the Specification Part B - Technical Provisions;
- (i) the Drawings;
- (j) the completed Schedules to Bid including Bill of Quantities;
- (k) the JV Undertaking (if the Contractor is a JV); and
- (l) any other documents forming part of the Contract.

The addenda/corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.6 Contract Agreement

In the last line of the 1st paragraph the text “shall be borne by the Employer” is substituted by “shall be reimbursed by the Employer to the Contractor”.

3.1 The Engineer

In sub-paragraph (a) the text “as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “professional engineer”.

3.2 Engineer’s Duties and Authority

The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:

- (a) Consenting to the subcontracting of any part of the Works

under Sub-Clause 5.1 [Subcontractors]

- (b) Any action under Sub-Clauses 8.9 [Employer's Suspension] and 8.12 [Prolonged Suspension]
- (c) Issuance of "Taking Over Certificate" under Sub-Clause 10.1 [Taking Over the Works and Sections].
- (d) Issuing the "Performance Certificate" under Sub-Clause 11.9 [Performance Certificate].
- (e) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except:
 - (i) in an emergency situation as determined by the Engineer, or
 - (ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data.
- (f) Sub-Clause 13.3 [Variation Procedure]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [Value Engineering].
- (g) Certifying release of second half of the Retention Money under Sub-Clause 14.9 [Release of Retention Money].
- (h) Issuing Final Payment Certificate under Sub-Clause 14.13 [Issue of FPC].

Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer's Duties and Authority] of the General Conditions.

Notwithstanding, the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

Following is added after the words "the Employer's consent is required" in 4th paragraph:

"stating that the Employer's consent has been obtained for that specified authority"

4.2 Performance Security

4.2.1 Contractor's Obligations

The entity issuing the Performance Security and its form shall be as under:

The Performance Security shall be, at the option of the Contractor, issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

Accepted Contract Amount (In Eq. PKR million)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA

In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

Following paragraph is added at the end of this Sub-Clause:

“The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract.”

4.3 Contractor's Representative

In second paragraph the text “professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary license in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “qualified, experienced”.

In the 3rd paragraph the words “28 days” are substituted by “14 days”. In 2nd line of 4th paragraph the text “or appoint a replacement” is substituted by “except appointment of a suitable temporary replacement is deployed at the Site”

4.4 Contractor's Documents

4.4.2 As-Built Records

First paragraph is deleted and the text in the last paragraph is substituted with the following:

“The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy (provided the Engineer has made available to the Contractor editable form of the Drawings) of all Drawings amended to conform to the Works asbuilt. In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6 copies and one reproducible of these Drawings.

The price of such Drawings shall be deemed to be included in the Contract Price.”

Following Sub-Clause is added:

4.4.4 Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

The following text is added at the end of this Sub-Clause:

In the event of work being carried out outside the normal working hours and in the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer.

4.20 Progress Reports

At the end of sub-paragraph (g) the word "and" is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with ":", and the following new sub-paragraphs are added as:

- (i) planned programme for the execution of the Works for next 56 days to enable the Engineer to determine its programme of inspection and testing;
- (j) monthly summery of daily job record indicating weather conditions, deployment of Contractor's Equipment, labour employment, local material procurement and material import, if any; and
- (k) salient contractual and project information.

5.1 Subcontractors

Add the following text at the end of paragraph (ii):

"under Schedule to Bid"

The following is added at the end of the last paragraph of Sub-Clause 5.1:

"All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub- Clause 15.2.3 [After Termination].

The Contractor shall give reasonable opportunity to contractors from Islamic Republic of Pakistan for subcontracts for the Works, and endeavour to employ such contractors as Subcontractors."

5.2 Nominated Subcontractors

5.2.2 Objection to Nomination

In sub-paragraph (c), "and" is deleted from the end of (i);

"." at the end of (ii) is replaced with: ", and".

The following is then added as (iii):

“(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.2.3 [*Payment to nominated Subcontractors*].”

6.1 Engagement of Staff and Labour	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>“The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than 85%) with appropriate qualifications and experience from sources within the Islamic Republic of Pakistan.”</p>
6.7 Health and Safety of Personnel	<p>The existing text is substituted with the following:</p> <p>“In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose. The Contractor shall also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.”</p>
6.8 Contractor's Superintendence	<p>Insert at the end of sub-paragraph (a) of this Sub-Clause:</p> <p>“or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties”</p>
	<p>The following text is added at the end of this Sub-Clause:</p> <p>“The Contractor's authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.</p>
	<p>The Contractor's authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.”</p>
6.12 Key Personnel	<p>The following is inserted at the end of the last paragraph:</p> <p>“If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.”</p>
	<p>The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:</p>
6.13 Foreign Personnel	<p>The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required</p>

residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavours in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.

The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.14 Supply of Foodstuffs The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.15 Supply of Water The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.16 Measures against Insect and Pest Nuisance The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

6.17 Alcoholic Liquor or Drugs The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.

6.18 Arms and Ammunition The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

6.19 Festivals and Religious Customs The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

6.20 Funeral Arrangements The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.

6.21 Forced Labour The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.

6.22 Child Labour The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.

6.23 Employment Records of Workers	The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [<i>Contractor's Records</i>].
6.24 Workers' Organizations	The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to form and to join workers' organizations/Trade Union of their choosing and to bargain collectively without interference.
6.25 Non-Discrimination and Equal Opportunity	The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices. Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure nondiscrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers and children (of working age in accordance with Sub-Clause 6.22).
6.26 Epidemics	In the event of any out-break of illness of epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of overcoming the same.
7.7 Ownership of Plant and Materials	<p>The following is added before the first paragraph: "Except as otherwise provided in the Contract,"</p> <p>The following is added at the end of the Sub-Clause: "No Plant and/or Materials that is the property of the Employer shall be removed from the Site. If it becomes necessary to:</p> <p class="list-item-l1">(i) remove any item of such Plant from the Site for the purposes of repair, the Contractor shall give a Notice, with reasons, to the Engineer requesting consent to remove the defective or damaged item off the Site. This Notice shall clearly identify the item of defective or damaged Plant, and shall give details of: the defect or damage to be repaired; the place to which defective or damaged item of Plant is to be taken for repair; the transportation to be used (and insurance cover for such transportation); the proposed</p>

inspections and testing off the Site; and the planned duration required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer may reasonably require; or

(ii) replace any item(s) of such Plant and/or Materials, the Contractor shall give a Notice, with reasons, to the Engineer clearly identifying the item(s) of Plant and/or Materials to be replaced, and giving details of the due date of delivery to the Site of the replacement item(s).

Where any item of Plant and/or Materials has become the property of the Employer under this Sub-Clause before it has been delivered to the Site, the Contractor shall ensure that such an item is not moved except for its delivery to the Site.

The Contractor shall indemnify and hold the Employer harmless against and from the consequences of any defect in title or encumbrance or charge (except any reasonable restriction arising from the intellectual property rights of the manufacturer or producer) on any item of Plant and/or Materials that has become the property of the Employer under this Sub-Clause."

The following Sub-Clause 7.9 is added after Sub Clause 7.8:

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 following is added before the first paragraph: "After signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".
8.5 Extension of Time for Completion	The following is added after paragraph (c): "for last five years".

The following Sub-Clause 8.14 is added after Sub-Clause 8.13:

8.14 Incentives For Early Completion	If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.
	The Contractor shall be entitled subject to Sub-Clause 20.2 [<i>Claims for Payment and/or EOT</i>] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be up to a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.

For the purposes of calculating any bonus payment, the applicable Time for Completion stated in the Contract Data is fixed and no

EOT will be allowed.

The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

11.12 Supervisory Assistance During DNP

If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.

12.2 Method of Measurement

The following paragraph is added at the end of the Sub-Clause:

“Summary of measured quantity for payment shall be delineated item-wise under four heads namely; “Schedule of Prices Quantity”, “Quantity Executed To-date”, “Quantity Certified Previously” and “Net Quantity Executed under this Certificate”.

12.3 Valuation of the Works

The following text is added at the end of fifth paragraph of the Sub-Clause:

“Sum of overhead charges and profit for sub-paragraph (a) shall be Twenty Five percent (25%)”.

13.4 Provisional Sums

The following paragraph is inserted as the penultimate paragraph:

“The Provisional Sum shall be used to cover the Employer's share of the DAAB members' fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB. The Contractor shall submit the DAAB members' invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3.

13.6 Adjustments for Changes in Laws

The following paragraphs are added at the end of the Sub- Clause:

“Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [*Adjustments for Changes in Cost*].

The ambit of this Sub-Clause expressly excludes direct taxes, including income tax.”

14.2 Advance Payment**14.2.1 Advance Payment Guarantee**

The entity issuing the Advance Payment Guarantee and its form shall be as under:

The Advance Payment Guarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

Accepted Contract Amount (In Eq. million PKR)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA

In case of Joint Venture, the Advance Payment Guarantee(s) shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

14.6 Issue of IPC**14.6.1 The IPC**

In the first line of the 1st paragraph the words “28 days” are substituted by “14 days”.

14.7 Payment

The words “or through crossed cheque in favour of the Contractor or JV partners. The Payment to JV partners shall be made at the request of the Joint Ventures in the ratio of their

shares specified by them" are added at the end of the Sub-Clause.

14.8 Delayed Payment

In the first paragraph, third line, the words "compounded monthly" are deleted.

The text of 2nd paragraph is deleted and substituted with the following:

"The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data."

15.2 Termination for Contractor's Default

15.2.1 Notice

Following text is added at the end of sub-paragraph (h) of this Sub-Clause:

"For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2004."

15.2.3 After Termination

The word "and" at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):

"(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [*Employer-Supplied Materials and Employer's Equipment*], and"

15.4 Payment after Termination

The following text is added at the end of this Sub-Clause:

"The Employer shall be entitled to sell any of the Contractor's Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors.

16.2 Termination by Contractor

16.2.1 Notice

The sub-paragraph (j) is deleted in its entirety.

At the end of sub-paragraph (i) ";" or" is replaced with ":" and at the end of sub-paragraph (h) ";" is replaced with ";" or".

In sub-paragraph (f) "84 days" are replaced with "180 days" and text "for reasons not attributable to the Contractor" is added at the end.

16.3 Contractor's Obligations After Termination

Sub-paragraph (c) is deleted and replaced with:

"(c) deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [*Employer-Supplied Materials and Employer's Equipment*]; and

(d) remove all other Goods from the Site, except as necessary for safety, and leave the Site."

17.1 Responsibility for Care of the Works

After the two instances of "Goods" in the last paragraph, the words "Employer-Supplied Materials and/or Employer's Equipment" are added.

The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

17.7 Use of Employer's Accommodation/ Facilities The Contractor shall take full responsibility for the care of the items of the Employer's facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer.

If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor's risk and cost.

18.1 Exceptional Events The words "or disorder" are replaced with "disorder or sabotage" in sub-paragraph (c) of the Clause.

18.4 Consequences of an Exceptional Event The following is added at the end of sub-paragraph (b) after deleting the ".":

"*, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [Insurance to be provided by the Contractor].*"

In sub-paragraph (c), the words "and necessarily" are added after the words "was reasonably".

Following text is added at the end of first paragraph:

"The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer's consent."

Following text is added at the end of third paragraph:

"The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5."

19.2.5 Injury to employees

The words "sickness, disease" are deleted in the third line of first paragraph.

The following Sub-Clause is added after Sub-Clause 19.2.6:

19.2.7 Insurance Company

"The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

Accepted Contract Amount (In Eq. million PKR)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA

21.6 Arbitration

The word “international” is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:

“the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;”

The following Clauses are added after Clause 21

22 Custom Duty

Not Applicable

23 Taxes

The Contractor, Subcontractors and their employees shall be liable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.

24 Integrity Part

If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer 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, agent or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agent or servants.

The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph (a) and (c) of this Sub-Clause.

SPECIFICATIONS

PART A - SPECIFIC PROVISIONS

SPECIFIC PROVISIONS

SP-01 THE SITE

1. STZA intended to establish “Islamabad Technopolis” on 140 acres area. The proposed site is located at Jinnah Avenue south of Rawal Lake adjacent to NIH Colony. The project site is accessible from Park Road which connects to Jinnah Avenue and Mohra Nur Road.



2. The site of the Work is defined as the areas required for construction of Works including boundaries and limits shown on the Drawings and such additional areas adjacent thereto as may be designated by the Engineer from time to time for the construction to be performed under the Bidding Documents, and all such areas and additional areas shall be comprised in the Site as defined in Clause 1 of the Conditions of Contract.
3. The Contractor shall make himself thoroughly familiar with the site conditions, foresee any and all problems likely to be encountered during execution of the works, and shall be able and ready to solve them effectively. Proposals for solutions to the problems shall be submitted to the Engineer for approval before proceeding with the work.
4. The Contractor shall confine his operations to the areas that are actually required for the Works and shall fence the area accordingly. Arrangements for access roads, storage areas and routes for haulage of materials are to be made by the Contractor at his own cost, subject to the approval of the Engineer.

SP-02 WORKS UNDER CONTRACT

1. The Works are to be executed and completed in accordance with drawings, Specifications, Terms and Conditions under Special Provisions related to all Bill of Quantities items and satisfactions of the Engineer and the Employer.
2. Scope of the works will include, but not limited to, the followings;
 - i. Boundary Wall (5km)

ii. Entrance Gates, Security & Site Office (01 No.)

3. The Contractor shall perform all the Works required for the complete construction of the aforesaid Works as per Construction Drawings.
4. The Contractor shall procure, furnish, provide and arrange all necessary construction equipment, transportation, fuel, and other services and shall be responsible for the construction and maintenance of other works necessary for the completion of the Works described herein in strict conformity with the Specifications.
5. The Works shall also include rectification/ reconstruction of defects during the Defects Liability Period.

SP-03 DRAWINGS

A. Tender/ Construction Drawings

1. The Drawings issued with the Bidding Documents and hereinafter referred to as Tender/ Construction Drawings, are generally in complete detail so enable the Contractor to submit rates and prices of the Pay Items in the Bill of Quantities. The Construction/ Tender Drawings returned by the Contractor with his Bidding Documents shall be kept in safe custody by the Employer/ Engineer.
2. After award of Contract, the same Construction Drawings shall be issued for construction. The Work shall be executed in conformity with Construction Drawings.

B. Supplementary Drawings

1. The Drawings issued for construction may include some modifications and additional Drawings as required to develop the Works in greater detail and supplementary Specifications as may be necessary. Such Drawings and Specifications shall be construed to be included in the expression "Supplementary Drawings and Instructions" under Sub- Clause-7.1 of the Conditions of Contract. The supplementary Drawings that show changes from the Tender/ Construction Drawings and Specifications will be reviewed by the Engineer for his determination of adjustments (if any) of the Contract Price in accordance with the provisions of Sub-Clauses 52.1 and 52.2 of the Conditions of Contract.

C. Definition of Term Drawings

1. The term Drawings as used throughout the Specifications applies to the "Tender/ Construction Drawings" defined in Sub-Clause SP-02-A and Sub-Clause SP-02-B.

D. Checking Drawings

1. The Contractor shall check all Drawings issued for construction carefully as soon as practicable after receipt thereof and shall promptly seek advice from the Engineer of any errors discovered.

E. Drawings to be furnished by the Contractor

1. Shop Drawings

(i) All shop drawings required for the Works including field erection and layout and construction detail drawings shall be furnished by the Contractor for approval of the Engineer. Written drawings matter shall be in English. If more detailed drawings are necessary to complete any part of the Work, such detailed drawings shall be prepared by the Contractor and submitted to the Engineer for approval. All drawings shall be complete and shall be submitted in due time and in logical order to facilitate proper coordination. All drawings submitted and approved will form a part of the Contract.

02 As-Built Drawings

(i) The Contractor shall, at all times, keep on Site a separate set of prints of all drawings on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. Such drawings shall show the exact physical location and configuration of the works as actually installed. The Contractor shall, within fourteen (14) days of issuance of Taking- Over Certificate for whole of the Works, furnish to the Engineer for his approval two (2) copies of such marked up drawings. One (1) copy of each of the marked-up drawings approved by the Engineer shall be returned to the Contractor by the Engineer and these shall be used for the preparation of the As - Built Drawings. The Contractor shall furnish to the Engineer six (6) complete sets and one reproducible copy of all As-Built Drawings within twenty-eight (28) days of receipt of drawings stated above, from the Engineer.

F. Submissions and Approvals

1. All the shop drawings necessary for the completion of works shall be submitted to the Engineer fifteen (15) days before start of the construction at site. Transmittals shall be made to the Engineer, in accordance with written instructions to be furnished by the Engineer. Within 07 calendar days after receipt, the Engineer will approve the drawing and send one final drawing to the Contractor.
2. Any work done prior to the approval of drawings shall be at the Contractor's risk. The Engineer will have the right to request any additional details and to require the Contractor to make any changes in the design which are necessary to conform to the provisions and intent of the Specifications without additional cost to the Employer. The approval of the drawings by the Engineer shall not be construed as a complete check but will indicate' only that the general method of construction and detailing is satisfactory. Approval by the Engineer of the Contractor's drawings shall not be held to relieve the Contractor of the obligations to meet' all the requirements of the Specifications or the responsibility for the correctness of the- Contractor's drawings or of the responsibility for correct fit of assembled parts in final position or of the responsibility for the adequacy of method of construction.

SP-04 LAYOUT OF WORK AND SURVEYS**A. Reference points, Lines and Levels**

1. The Engineer will provide assistance for layout a reference line or lines in the field with accompanying points and bench marks for each major structure, sufficient to enable the Contractor to establish there from his survey control for construction.

B. Verification

1. The Engineer may make checks as the Work progresses to verify lines and grades established by the Contractor and to determine the conformance of the Work as it progresses with the requirements of Contract Specifications and Drawings. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform all Work in accordance with the Drawings and Specifications and the lines and grades given therein.

SP-05 INSPECTIONS AND MATERIALS/EQUIPMENT TESTING**A. Inspections**

1. The Contractor shall submit to the Engineer in due time for approval and discussion, his proposals and plans as to the method and procedure to be adopted for the temporary and permanent works involved. The submitting to these suggestions and arrangements, and the approval thereof by the Engineer shall not relieve the Contractor of his responsibilities and duties under the Contract.
2. The carrying out of all work included in the Contract is to be supervised by a sufficient number of qualified representatives of the Contractor and full facilities and assistance are to be afforded by the Contractor for the Engineer or his Representative to check & examine the execution of the work.
3. All material and equipment furnished and all work performed under this Contract will be subject to inspection by the Engineer at all times and in all states of completion both off- Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labor and material reasonably needed for performing such inspections and tests as may be required by the Engineer. Inspection at the source will be made of selected materials and equipment in addition to inspection at the Site. Acceptance of materials and equipment or the waiving of inspection thereof shall in no way relieve the Contractor of the responsibility for furnishing materials and equipment meeting the requirements of the Contract Documents.

B. Submission of Samples and Data

1. As soon as practicable after award of Contract/the Contractor shall submit for the approval of the Engineer drawings, catalogs, cuts, diagrams and other descriptive data for all mechanical, electrical, architectural, and such other materials and equipment designated by the Engineer, which the Contractor proposes for use under this Contract. Items submitted shall be properly labeled to indicate the contract number, Works, contractor, source of supply, manufacturer, pay item number, and other data required by the Specifications.

C. Tests

1. Contractor is liable to conduct all the tests required to establish conformance of all materials, products and equipment to the specifications in the Technical Provisions of the Specifications, e.g., MES Specifications for all the related items of BOQ, as may be deemed necessary by the Engineer.
2. The Contractor shall propose for the approval of the Engineer three well renowned laboratories for testing of material and other tests specified in the Specifications. All Expenses for carrying out tests will be borne by the Contractor.

D. Cost

1. The cost of any additional laboratory, field and shop tests required through the re-submission of samples because of failure of compliance with Specifications shall also be borne by the Contractor.

SP-06 CONSTRUCTION SCHEDULE

A. MS Project/ Primavera and Bar Chart

1. The Preliminary Construction Schedule submitted with the Bid/Tender shall, as a minimum, provide overall Works schedules and specific structure construction schedules. The completion dates which are mandatory for certain parts of the Work shall be shown as such dates or earlier on the Schedule submitted by the Contractor.

B. Network Analysis

1. The Network Analysis Schedule, if required by the Engineer, shall also be prepared by the Contractor and approved by the Engineer. This Schedule shall be monitored and kept current and updated by the Contractor throughout the Work. All revisions shall be accompanied by a detailed explanation of the reasons for the changes. For the purpose of determining the Contractor's compliance with the Contract Progress, the Construction Programme shall govern; however, the Network Analysis Schedules shall govern for such other Contract purposes e.g., determination of extension of time, as the Engineer may determine.
2. The Contractor shall plan, prepare and draw the complete construction schedule on MS Project or Primavera software and submit to Engineer for approval in accordance with clause 14 of the condition of the Contract.

SP-07 STANDARDS AND CODES

- A. Where the Contract Documents provide requirements for material or equipment by specifying a standard or code such as one of British Standards Institution (BSI)/ American Society for Testing and Materials (ASTM)/ International Organization for Standardization (ISO), which has its origin in one country, it is not the intention to restrict the requirements solely to that standard and that country. Other standards, including standards of other countries, will be accepted provided the requirements thereof, in the sole opinion of the Engineer, are equal to the requirements of the standard specified. The Contractor may propose to the Engineer a standard other than that specified, in which case he shall submit an English translation of the proposed standard and all other information required by Clause SP-05, and shall submit written proof that his proposed standard is equivalent in all significant respects to the standard specified. Dates of specified standards are generally provided in the Specifications or indicated on the Drawings. Where dates are not shown or specified or indicated, standards will be those in effect thirty days prior to the opening of Tenders.

SP-08 FACILITIES FOR EMPLOYER/ ENGINEER/CONSULTANT'S STAFF

A. Site Office

The Contractor shall construct, provide, furnish and maintain site office(s) as approved by the Engineer/Employer along with stabilized access road.

The Contractor shall provide the said site office(s) facility in fully furnished one (01)

portable containers of minimum size 20'x10'. The Contractor shall provide office facility which includes executive office chairs along-with desk, side rack and two visiting chairs for each officer of the Employer or as approved by the Engineer/Employer. The Contractor shall also provide file cabinets with lock and key for the said site office(s). The Contractor shall provide 01 No. portable toilets with all sanitary fittings & fixtures and hot and cold-water supply & sewerage system necessary for its operation at the site. The Contractor shall be wholly responsible for payment of all the utility bills including Electricity, Gas, POL, TV Cable & 50 Mbps Internet and back-up power generator(s) etc. for the lodging facility.

B. Office cum Accommodation

The Contractor shall provide and maintain Site office cum accommodation with parking facility having at least three (03) fully furnished bedrooms each having minimum 1.5 TON AC with attach bathrooms (with hot and cold water supply), kitchen and drawing/dining/committee rooms duly furnished (tables, chairs, 55" LED TV etc.) including all necessary appliances to meet the housing needs till completion of Defects Liability Period of the whole of the Works. The Contractor shall be wholly responsible for payment of all the utility bills including Electricity, Gas, POL, TV Cable & 50 Mbps Internet and back-up power generator(s) etc. for the lodging facility.

C. Transportation for the Employer/ Engineer/Consultant's staff

The Contractor shall provide following latest model cars on rent for the Employer/ Engineer's Staff (including Driver and Fuel) to meet transportation needs (anywhere in Pakistan) till the completion of the project;

- i. TOYOTA YARIS GLI (Automatic Transmission) 1300CC or equivalent (1 No.)
- ii. SUZUKI CULTUS (Auto-Gear Shift) 1000CC or equivalent (1 No.)

The Contractor shall also provide the Brand-New Motor Bikes 70 CC (03 Nos.) for the Staff for the supervision purposes.

The Contractor shall be wholly responsible for providing at all times satisfactory vehicle operating services including POL, repair/ maintenance, tolls and insurance cost etc. In-case of outstation transportation requirement, the contractor will make arrangements for boarding/lodging of the driver at its own cost.

D. Workstation Facilities for the Employer/ Engineer's staff

The Contractor shall make available the Laptops (latest generation), Desktop Computers (latest generation), Data Traveler 6 TB, color laser printer 3 in 1, Black and white A4 printer with automatic Duplex Printing and latest model reputable brand DSLR camera with 18-55mm Lens and 1TB memory Card, as approved by the Engineer.

E. Support Staff

The Contractor shall provide the required support staff (Security Guards, Cook, Office boy, Sweepers or any other) for the Site offices throughout the project duration. All the liabilities of the support staff under the Contract Documents and Labour Laws shall be managed by the Contractor.

F. The said facilities shall be provided by the Contractor within twenty-eight (28) days of the receipt by the Contractor of Notice to Commence or twenty-one (21) days of the payment of the first half of the Mobilization Advance, whichever earlier. The site office(s) and all other facilities shall be maintained by the Contractor till completion of Defects Liability Period of the whole of the Works by the Employer/Engineer. If the

Contractor fails to provide Site office(s) and facilities as stipulated above, then in any such case the Employer may deduct a sufficient amount against all the facilities (per month) from the Contractor's monthly payment statements for the entire Contract period or till such time that site office(s) and facilities as stipulated above is provided by him.

G. All above purchased items shall become property of the Employer and will be handed over to the Employer accordingly.

SP-09 CONTRACTOR'S CAMP AND STORAGE FACILITIES

1. The Employer will provide the Contractor possible space within or nearby the area of site of works for the storage of plant, equipment and materials and for Contractor's temporary office, during the currency of the Contract. In case the adjacent area as required by the Contractor is not available within the Project boundary for storage of plant, equipment and machines then the Contractor shall arrange at his own expense possible space for storage of plant, equipment and machines at his own cost and expense. On no account shall such temporary installations conflict/interfere with any of the permanent installations, services and any operational function of Employer. The handling and storage of all plants, equipment and materials at site shall be the sole responsibility of the Contractor and at no risk and cost to the Employer.
2. The Contractor shall protect all material against corrosion, mechanical damage or deterioration during storage and erection on site. The protection methods shall be to the approval of the Engineer
3. The work to be done under this item will terminate upon the actual Completion Date. However, if directed by the Engineer or the Employer, the Contractor shall continue such work to the extent required by the Contractor's personnel during the Defects Liability Period. No compensation shall be paid for the continued operation and maintenance of the Contractor's Camps during the Defects Liability Period.
4. Upon completion of the Works, or at such time within the Defects Liability Period as directed by the Engineer, the Contractor shall remove all buildings, utilities and other facilities from the Site and restore all camp areas to a neat and clean condition.
5. Contractor shall protect the environmental interests and HSE (Health, safety & Environmental) regulations at camp and works sites during execution of the contractual work.
6. The construction, operation and maintenance of all camps of the Contractor shall comply with all applicable provisions of current Pakistan Labour Camp Rules.
7. The Contractor shall furnish, make arrangements for, and carry out proper and adequate maintenance of the Contractor's Camp areas at such camp to provide a neat, well- kept camp in all respects with pleasant and healthy surroundings and conditions for all occupants of their camp. The Contractor's camp shall be kept clean, well-graded, free from under growth and bush and adequately drained. Roads and streets shall be kept in good condition. All utilities shall be adequately and properly operated and maintain to provide services and conditions meeting the requirements of these specifications in all respects.
8. Adequately equipped and properly staffed portable first aid stations or dispensaries shall be provided by the Contractor at camps and other strategic locations to administer first aid treatment at any time required and free of charge to all persons on the Site, including employees of the Engineer and the Employer.

SP-10 PROTECTION AND PRECAUTIONS

1. The Contractor and his sub-contractors shall afford all necessary protection to existing structures and will be required to make good at his own expense any damage done to such structures through his own or his representatives or subcontractors' fault and negligence.
2. The Contractor and his sub-contractors shall afford all necessary protection to existing roads in the area. He will clear and make good at his own expense any damage to or debris on these roads through his own fault and negligence. He must at all time ensure the free and normal flow of traffic and shall not cause obstruction to the traffic system. The Contractor and his sub-contractors shall provide and maintain necessary protection and precautionary measures such as warning signs, warning lamps and barricades etc. to prevent accidents.
3. The Contractor shall promptly correct all such damage to original condition at no additional expense to the Employer.
4. The Contractor shall cooperate with other Contractors performing work under other Contracts as necessary for completion.

SP-11 ACCIDENT PREVENTION, PROTECTIVE EQUIPMENT

1. The Contractor shall in respect of safety, health and welfare matters abide by the applicable laws, legislation and regulations of the Pakistan and (to the extent the same are applicable therein) the laws and regulations of the Pakistan, Statutory Regulations published and best industry practice for the safety, health and welfare of any employee of the Contractor, the Employer or the Engineer.
2. The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer or the Employer may from time to time require.
3. The Contractor shall report to the Employer and the Engineer details of any accident as soon as possible after its occurrence. The Contractor shall in addition report all accidents to the appropriate authorities to the extent required by law. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Employer and the Engineer immediately by the quickest available means.
4. The Contractor shall submit for approval by the Engineer a project specific safety plan within fourteen (14) days of having received the Notice to Commence.
5. Contractor shall at his expense:
 - i. Arrange for medical attention to be available when necessary,
 - ii. Provide dressing stations complete with all adequate first-aid equipment on the site,
 - iii. Display in suitable places the names of his employees who are available from time to time to render first aid services,
 - iv. Provide for the transport of serious cases to the nearest hospital,
6. The Contractor shall depute qualified HSE representative at Site to ensure 100% compliance of HSE requirements. The representatives must be fully authorized and equipped to correct unsafe or excessively inconvenient conditions at short notice.

SPECIFICATIONS

PART B - TECHNICAL PROVISIONS

TECHNICAL PROVISIONS

1. The work shall be executed in accordance with the BOQ description, specifications laid down in MES schedule of rates 2021 (amended upto date) and Tender/ Construction drawings and the special provisions of the Tender Documents. However, if and wherever any of these specifications are at variance with each other, the Engineer shall be the sole deciding authority as to which shall prevail and his decision, in this regard will be final, conclusive and binding.
2. The contractor is deemed to have inspected the site and acquainted himself with site conditions and scope of work to be carried out, before tendering. No claim whatsoever will be entertained in this regard.
3. Dimensions given in FPS system on the drawing are to be followed for construction. Wherever the dimensions are given in metric system these should be converted into FPS system according to standard rules.
4. Wherever the words “as specified” occur in the BOQs it will mean as specified in any of this specification mentioned above. If the specifications are found missing the clarification will be sought from the Engineer whose decision shall be final, conclusive and binding.
5. The method of construction employed and the workmanship shall also be in accordance with the current recognized good Engineering practice and bonafide principles.
6. The detailed specifications of all the scheduled items are given in the MES schedule of rates 2021. The specifications include the type, selection and testing of materials, construction methodologies and standards and codes for the compliance.
7. A few items (HDPE pipe, Sluice valve, Globe valve or any other) are estimated as non-schedule items due to variance in size only (size/dia is not available in MES schedule of rates). However, the detailed specifications, constructions methodologies and standards and codes of these items are given in MES schedule of rates for other sizes. Therefore, the same specifications and standards shall also be applied on these items as given in MES schedule of rates.

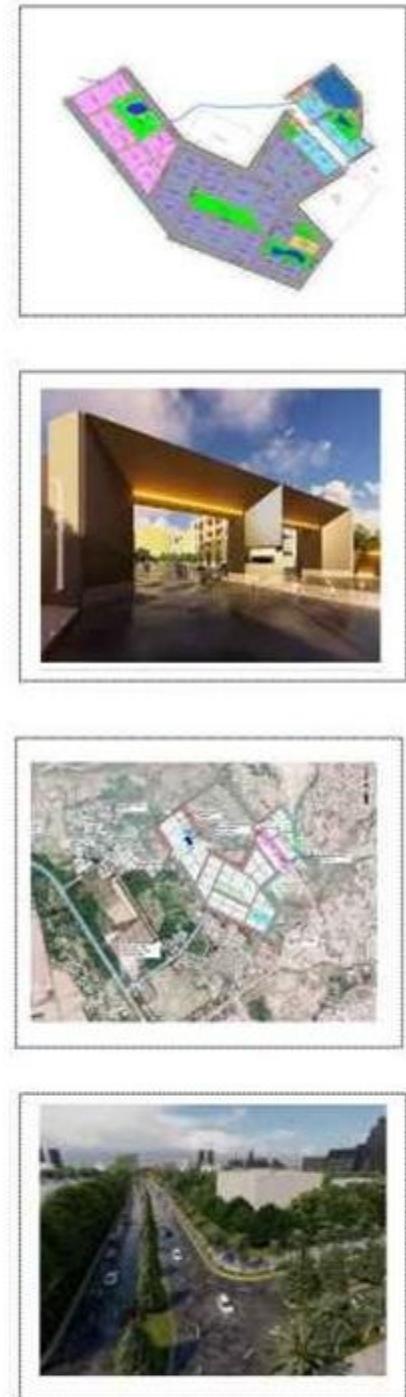
DRAWINGS
(Attached as Separate Volume)



**INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS
(CONSTRUCTION OF BOUNDARY WALL AND ENTRANCE GATE)**



**BIDDING DOCUMENTS
VOLUME-II
CONSTRUCTION DRAWINGS**



INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS

LIST OF DRAWINGS

SR.NO.	DRAWING NO.	TITLE
GENERAL DRAWINGS		
01	4384/11/LM/01	LOCATION PLAN OF PROJECT AREA
02	4384/11/LM/02	PROJECT AREA BOUNDARY
03	4384/11/LP/01	LAYOUT PLAN OF ISLAMABAD TECHNOPOLIS
04	4384/11/LP/02	LAYOUT PLAN SUPER IMPOSE ON SATELLITE
05	4384/11/LP/03	LAYOUT PLAN SUPER IMPOSE ON CONTOURS
06	4384/11/TR/01	TOPO PLAN
ARCHITECHURAL DRAWINGS		
07	4384/311/C/B01	SITE PLAN ISLAMABAD TECHNOPOLIS
08	4384/311/C/B02	MAIN ENTRANCE GATE STRUCTURE GROUND FLOOR PLAN WITH BOUNDARY WALL
09	4384/311/C/B03	MAIN ENTRANCE GATE STRUCTURE INTERMEDIATE FLOOR & FIRST FLOOR PLANS
10	4384/311/C/B04	MAIN ENTRANCE GATE STRUCTURE TOP ROOF PLAN
11	4384/311/C/B05	MAIN ENTRANCE GATE STRUCTURE ELEVATIONS & SECTION A-A
12	4384/311/C/B06	MAIN ENTRANCE GATE STRUCTURE SECTION B-B & ELEVATIONS
13	4384/311/C/B07	MAIN ENTRANCE GATE STRUCTURE GATE DOOR, WINDOW ELEVATIONS
14	4384/311/C/B08	MAIN ENTRANCE GATE STRUCTURE TOILETS AND PANTRY DETAILS
15	4384/311/C/B09	MAIN ENTRANCE GATE STRUCTURE BOUNDARY WALL, PLANTER ELEVATION & SECTION
16	4384/311/C/B10	LAYOUT PLAN OF DIFFERENT TYPES OF BOUNDARY WALL
17	4384/102/C/XS001	TYPICAL CROSS SECTION
18	4384/102/C/1C005	ROAD NO 01 (ROW120') PLAN AND PROFILE FROM RD 60+50 TO RD 65+54.04
19	4384/102/C/1C006	ROAD NO 02 (ROW120') PLAN AND PROFILE FROM RD 29+00 TO RD 34+30.42
20	4384/102/C/1C036	BOUNDARY WALL PLAN FROM RD 0+00 TO RD 14+00
21	4384/102/C/1C036 A	BOUNDARY WALL PLAN FROM RD 0+00 TO RD 14+00
22	4384/102/C/1C037	BOUNDARY WALL PLAN FROM RD 14+00 TO RD 28+00
23	4384/102/C/1C037 A	BOUNDARY WALL PLAN FROM RD 14+00 TO RD 28+00
24	4384/102/C/1C038	BOUNDARY WALL PLAN FROM RD 28+00 TO RD 42+00
25	4384/102/C/1C038 A	BOUNDARY WALL PLAN FROM RD 28+00 TO RD 42+00
26	4384/102/C/1C039	BOUNDARY WALL PLAN FROM RD 42+00 TO RD 56+00
27	4384/102/C/1C039 A	BOUNDARY WALL PLAN FROM RD 42+00 TO RD 56+00
28	4384/102/C/1C040	BOUNDARY WALL PLAN FROM RD 56+00 TO RD 70+00
29	4384/102/C/1C040 A	BOUNDARY WALL PLAN FROM RD 56+00 TO RD 70+00
30	4384/102/C/1C041	BOUNDARY WALL PLAN FROM RD 70+00 TO RD 84+00
31	4384/102/C/1C041 A	BOUNDARY WALL PLAN FROM RD 70+00 TO RD 84+00
32	4384/102/C/1C042	BOUNDARY WALL PLAN FROM RD 84+00 TO RD 98+00
33	4384/102/C/1C042 A	BOUNDARY WALL PLAN FROM RD 84+00 TO RD 98+00
34	4384/102/C/1C043	BOUNDARY WALL PLAN FROM RD 98+00 TO RD 112+00
35	4384/102/C/1C043 A	BOUNDARY WALL PLAN FROM RD 98+00 TO RD 112+00
36	4384/102/C/1C044	BOUNDARY WALL PLAN FROM RD 112+00 TO RD 118+51.33
37	4384/102/C/1C044 A	BOUNDARY WALL PLAN FROM RD 112+00 TO RD 118+51.33
38	4384/102/C/1C045	BOUNDARY WALL 2 PLAN FROM RD 0+00 TO RD 13+00
39	4384/102/C/1C046	BOUNDARY WALL 2 PLAN FROM RD 13+00 TO RD 26+00
40	4384/102/C/1C047	BOUNDARY WALL PLAN FROM RD 26+00 TO RD 37+78.72

SR.NO.	DRAWING NO.	TITLE
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41	4384/037/C/G001	GENERAL NOTES
42	4384/037/C/1G01	TYPICAL BOUNDARY WALL (TYPE-C) PLAN AND SECTIONS CONCRETE OUTLINE & REINFORCEMENT
43	4384/037/C/1G02	PRECAST BOUNDARY WALL (TYPE-A) PLAN AND SECTIONS CONCRETE OUTLINE & REINFORCEMENT
44	4384/037/C/1G03	TYPICAL BOUNDARY WALL (TYPE-B) PLAN AND SECTIONS CONCRETE OUTLINE & REINFORCEMENT
45	4384/033/C/20G01	GATE HOUSE GENERAL COLUMN LAYOUT (CONCRETE OUTLINE)
46	4384/033/C/20G02	GATE HOUSE FOUNDATION PLAN AND SECTIONS (CONCRETE OUTLINE)
47	4384/033/C/20G03	GATE HOUSE FOUNDATION PLAN AND SECTIONS (CONCRETE OUTLINE)
48	4384/033/C/20G04	GATE HOUSE FOUNDATION PLAN AND SECTIONS (REINFORCEMENT)
49	4384/033/C/20G05	GATE HOUSE FOUNDATION PLAN AND SECTIONS (REINFORCEMENT)
50	4384/033/C/20G06	GATE HOUSE PLINTH BEAM PLAN AND AT EL (+)10'-6" (CONCRETE OUTLINE & REINFORCEMENT)
51	4384/033/C/20G07	GATE HOUSE BEAMS PLAN AT EL (+)13'-3" & (+)23'-0" (CONCRETE OUTLINE & REINFORCEMENT)
52	4384/033/C/20G08	GATE HOUSE BEAMS PLAN AT EL (+)13'-3(1/8)" & ROOF PLAN AND (CONCRETE OUTLINE & REINFORCEMENT)
53	4384/033/C/20G09	GATE HOUSE SECTIONS (CONCRETE OUTLINE)
54	4384/033/C/20G10	GATE HOUSE SECTIONS REINFORCEMENT
55	4384/033/C/20G11	GATE HOUSE BEAMS AND COLUMNS & SECTIONS (REINFORCEMENT)
56	4384/033/C/20G12	TYPICAL DECORATIVE WALL DW1 ELEVATIONS & SECTIONS CONCRETE OUTLINE & REINFORCEMENT
57	4384/033/C/20G13	TYPICAL DECORATIVE WALL DW2 ELEVATIONS & SECTIONS CONCRETE OUTLINE & REINFORCEMENT
ELECTRICAL DRAWINGS		
58	4384/161/CD/SE001	LEGENDS, GENERAL NOTES AND ROD TYPE EARTHING DETAIL
59	4384/161/CD/SE003	MAIN ENTRANCE GATE GROUND FLOOR ELECTRIFICATION LAYOUT PLAN

GENERAL DRAWINGS



CLIENT	CONSULTANT	REV.	DATE	DESCRIPTION	APPROVED	APPROVED	PROJECT	LOCATION PLAN OF PROJECT AREA	SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	04 03 02 01			DRAWN SUBMITTED RECOMMENDED CHO.VER.	ADNAN	CONSULTANCY SERVICES FOR MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLIS	DATE JUNE, 2022	DRAWING NO. 4384/11/LM/01



LOCATION PLAN
ISLAMABAD TECHNOPOLIS

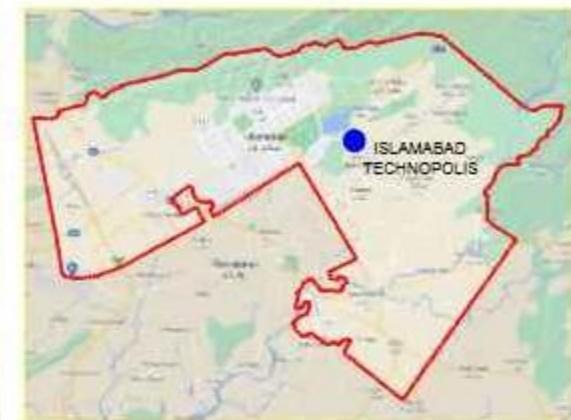
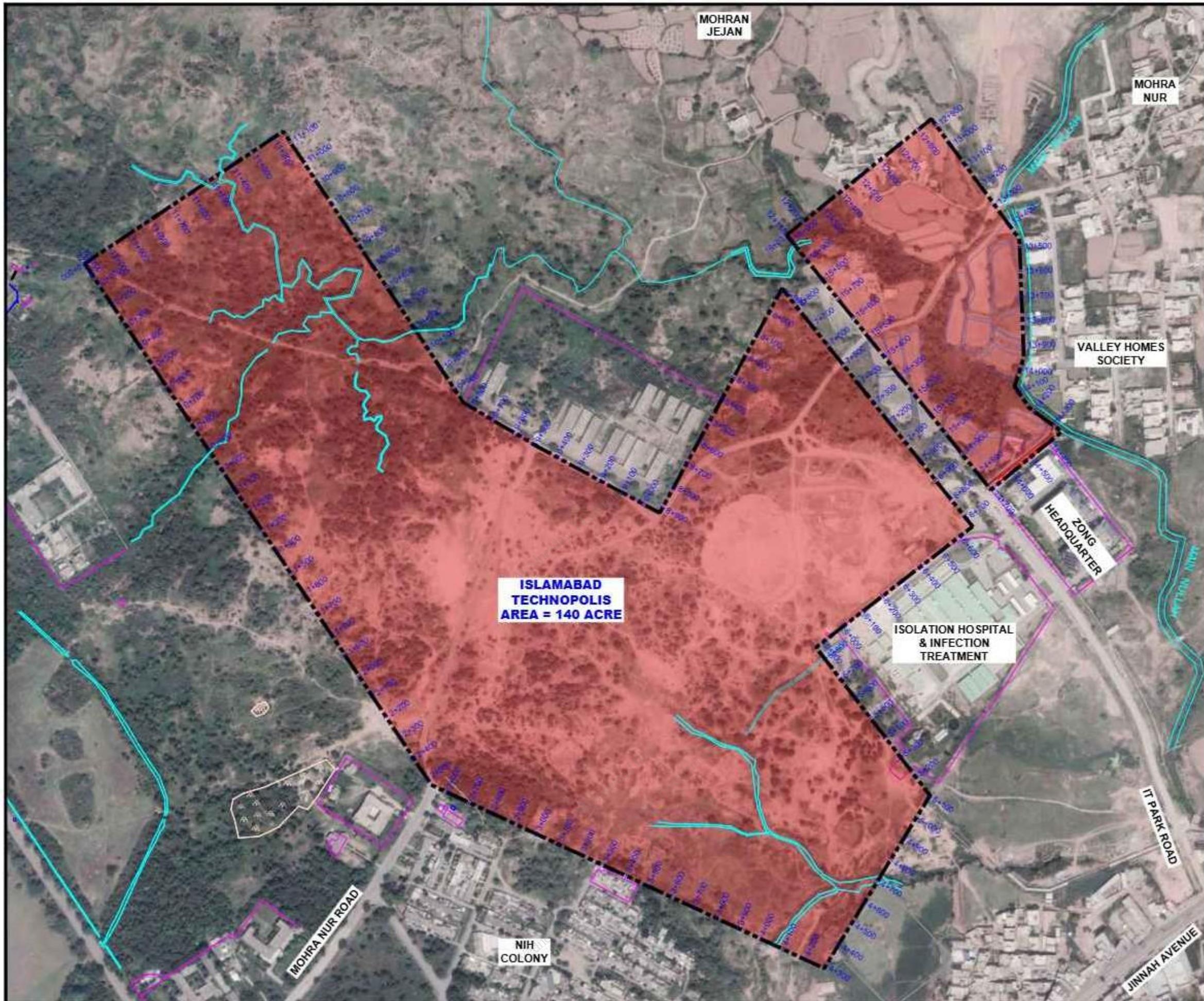


LOCATION PLAN, ISLAMABAD

LEGEND:

- PROJECT BOUNDARY
- PROJECT AREA
- BUILDINGS
- NULLAH
- GRAVEYARD





LOCATION PLAN
ISLAMABAD TECHNOPOLIS



LOCATION PLAN, ISLAMABAD

LEGEND:

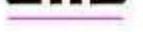
PROJECT BOUNDARY



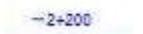
PROJECT AREA



BUILDINGS



BOUNDARY RD

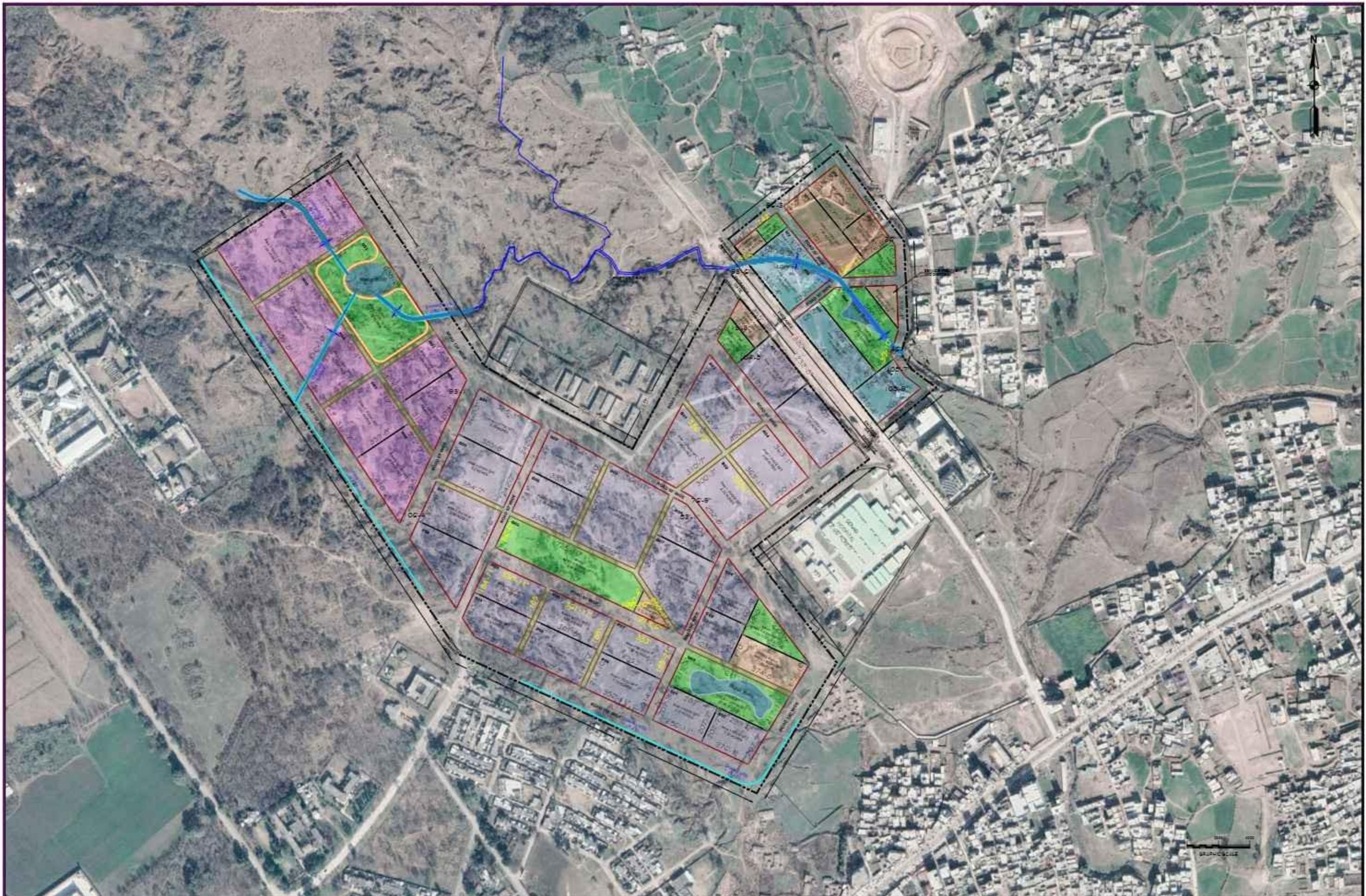


NULLAH



GRAVEYARD

CLIENT	CONSULTANT	PROJECT						SCALE		
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04	03	02	01	DRAWN	ADN/N	PROJECT AREA BOUNDARY		
		REV.	DATE	DESCRIPTION	APPROVED	APPROVED		DATE	DRAWING NO.	REV.
								JUNE, 2022	4384/11/LM/02	0



SPECIAL TECHNOLOGY
ZONES AUTHORITY



CONSULTANT
NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD.

HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N,
MODEL TOWN EXTENSION, LAHORE, PAKISTAN.

REV.	DATE	DESCRIPTION	APPROVED	APPROVED
04				
03				
02				
01				

PROJECT
CONSULTANCY SERVICES FOR MASTER
PLANNING, INFRASTRUCTURE DESIGN, EIA
AND CONSTRUCTION SUPERVISION OF
ISLAMABAD SPECIAL TECHNOLOGY ZONE

SCALE
1:2000

LAYOUT PLAN SUPER IMPOSE ON SATELLITE

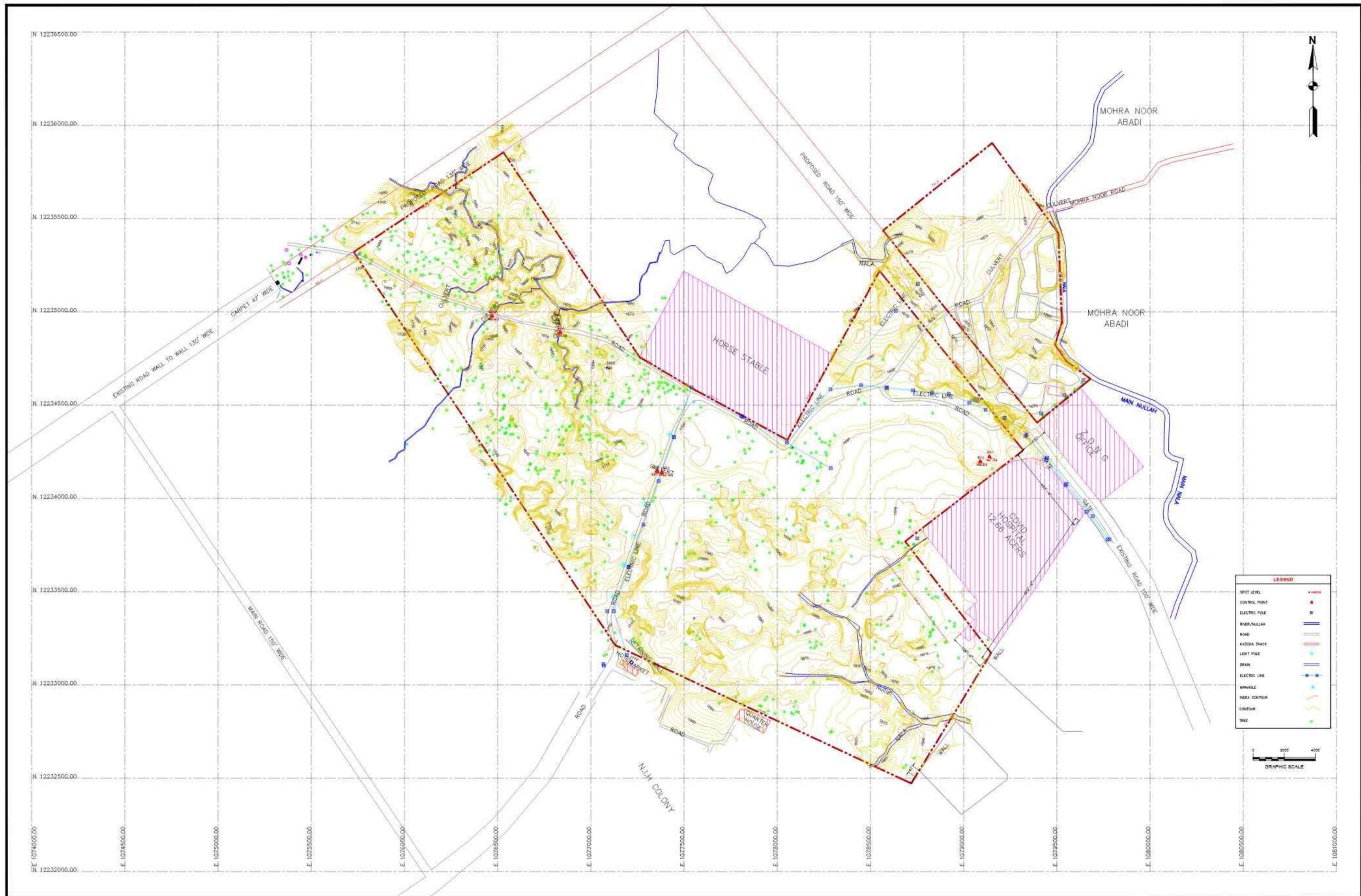
DATE
NOVEMBER 2024

DRAWING NO.
4384/LP/02

REV.
0

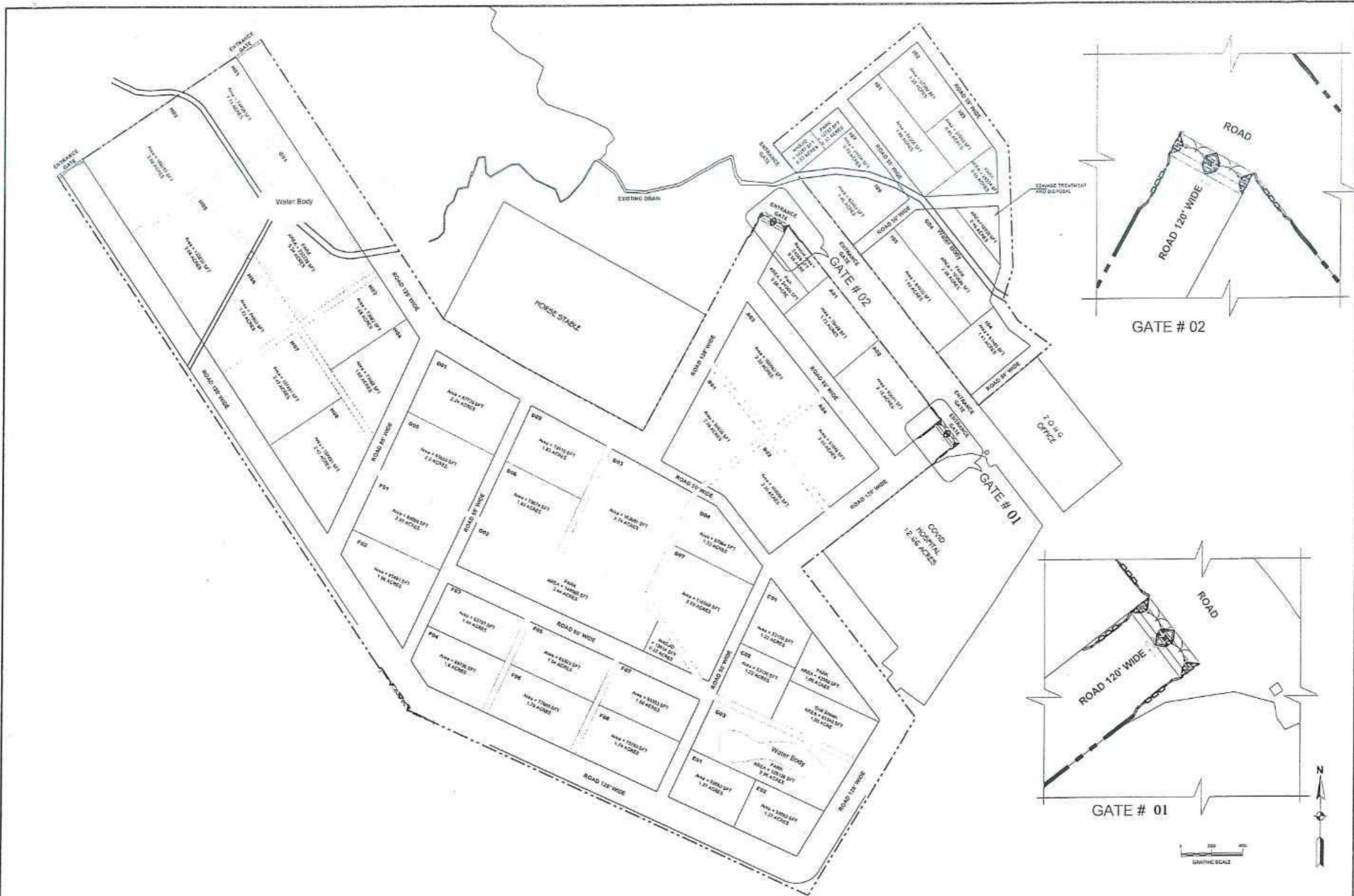


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	04			DRAWN	ISSUED	PROJECT CONSULTANCY SERVICES FOR MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLIS	LAYOUT PLAN SUPER IMPOSE ON CONTOURS		SCALE 1:2000
			03			SUBMITTED			DATE	DRAWING NO.	REV.
			02			RECOMMENDED					
			01			CHIEF					
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED		NOVEMBER 2024	4384/LP/03	0

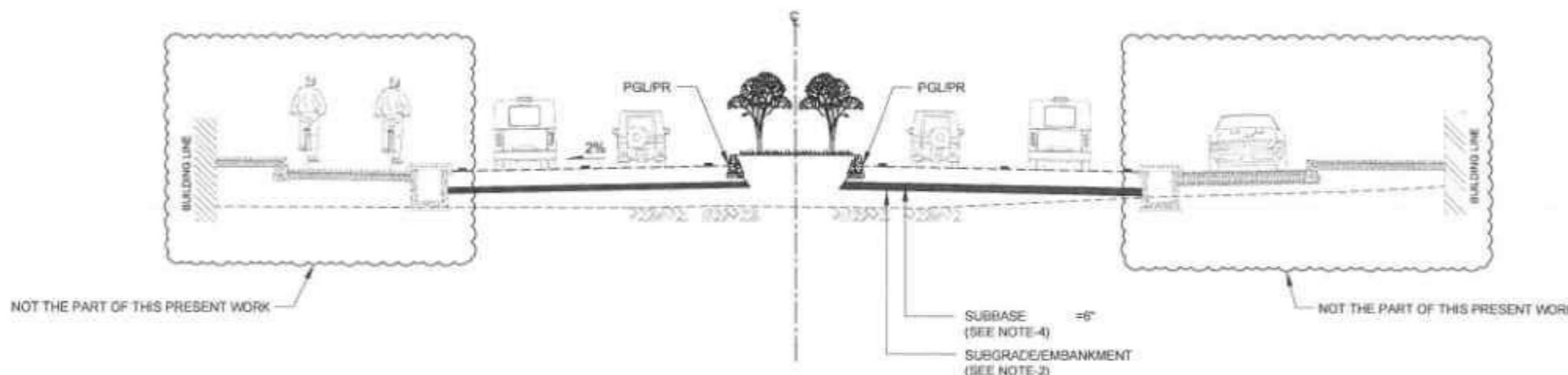
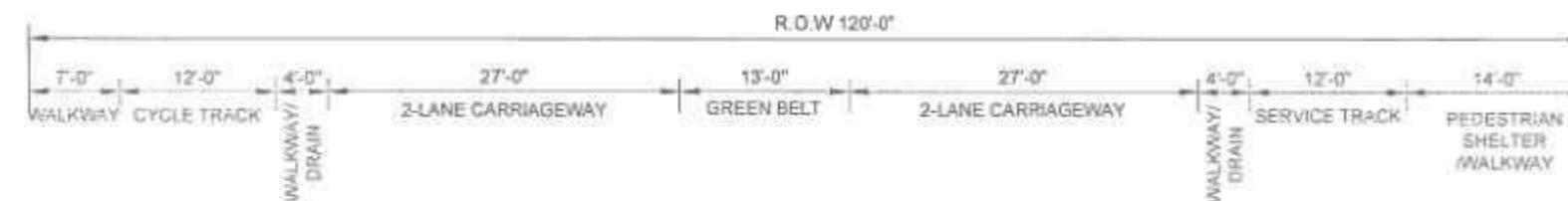


CLIENT	CONSULTANT	PROJECT	TOPO PLAN	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	04 03 02 01 REV. DATE DESCRIPTION APPROVED DRAWN IMRAN ZAFAR SUBMITTED RECOMMENDED CHD VER. APPROVED	CONSULTANCY SERVICES FOR MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLIS	1:2000
			DATE JUNE, 2022 DRAWING No. 4384/11/TP/01 REV. 0	

ARCHITECTURAL DRAWINGS



CLIENT [Redacted]	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	PROJECT					SITE PLAN OF ISLAMABAD TECHNOPOLIS	SCALE 1:2000
		04	05	DRAWN SUBMITTED	ADNAN	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS		
SPECIAL TECHNOLOGY ZONES AUTHORITY	HEAD OFFICE:- NESPAK HOUSE, I-C BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	06	07	RECOMMENDED	<i>16/11</i>			
		08	09	OVER				
		10	11	APPROVED	<i>18</i>			
		REV	DATE	DESCRIPTION	APPROVED	APPROVED	NOVEMBER, 2024	4384/311/C/B01



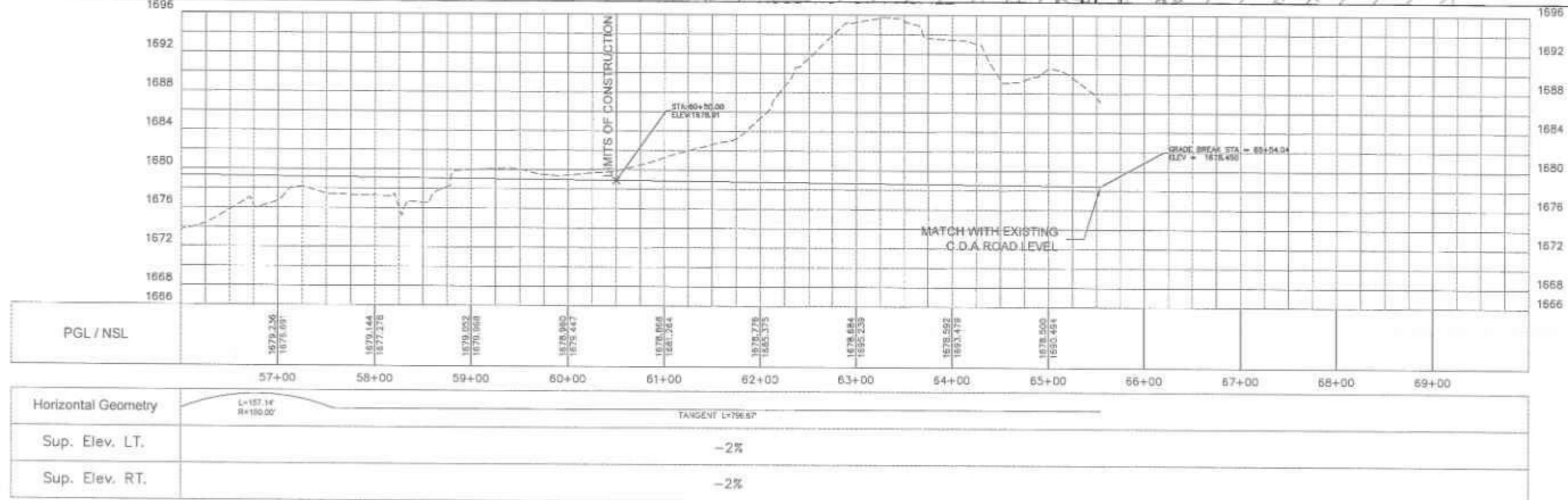
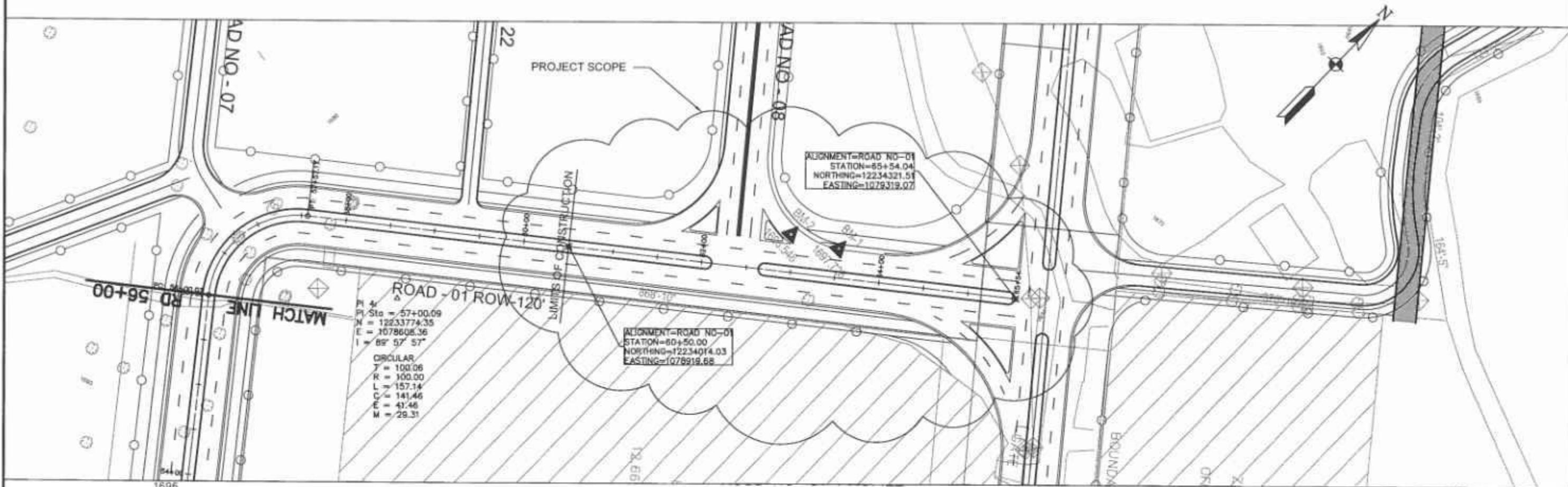
TYPICAL CROSS SECTION

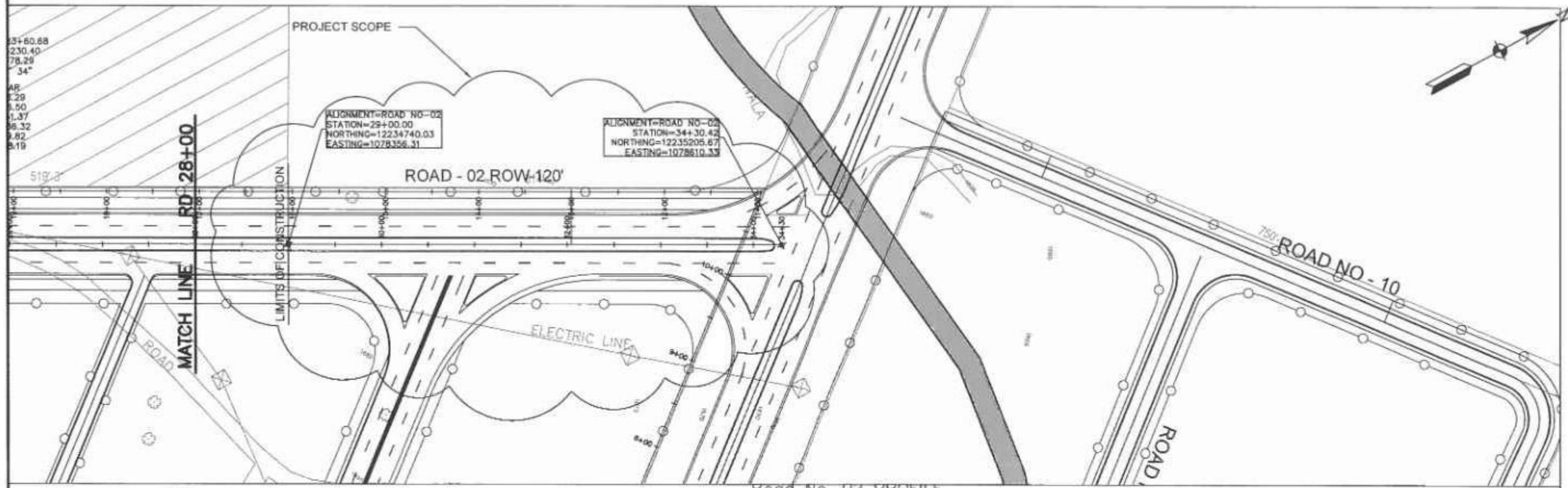
R.O.W 120'

NOTES:-

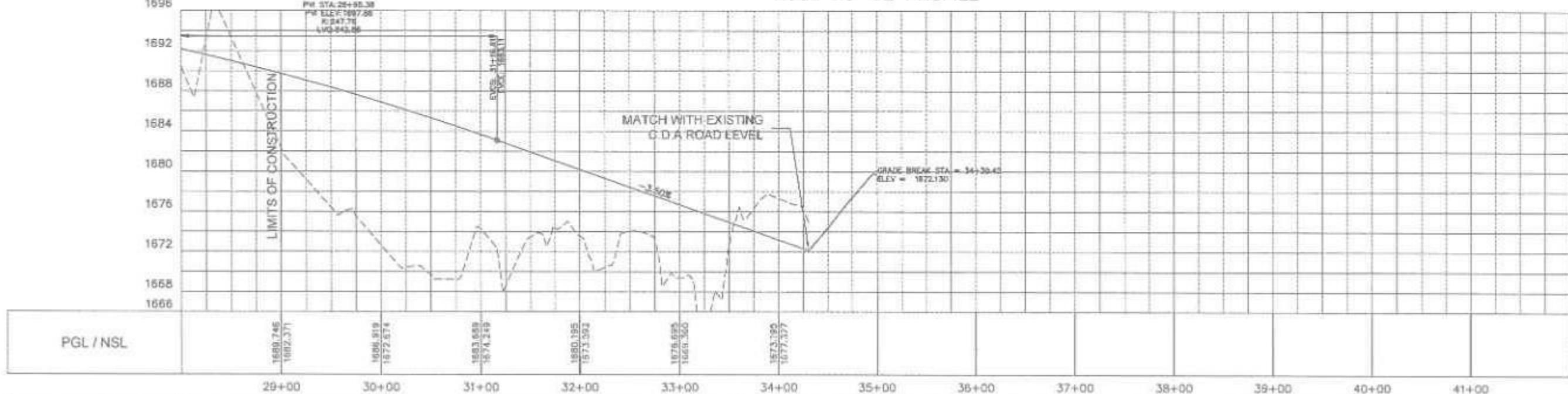
1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. SUBGRADE/EMBANKMENT SHALL CONSIST OF SUITABLE MATERIAL HAVING MINIMUM SOAKED CBR OF 7% AT 95% MDD.
3. FOR OTHER DETAILS REFER RELEVANT DRAWING.
4. THE ROAD SHALL BE CONSTRUCTED UPTO TOP LEVEL OF SUBBASE. HOWEVER ABOVE LAYERS SHALL BE CONSTRUCTED IN FUTURE AS DESIRED BY THE CLIENT.

CLIENT	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT	PROJECT						TYPICAL CROSS SECTION	SCALE
			04	05	06	DRAWN	RECD	RECD		
		NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	03			SUBMITTED				
			02			RECOMMENDED				
			21			CHO/VER.				
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED			





1696 Road No-02 PROFILE 1696



Horizontal Geometry	TANGENT L1014.5E
Sup. Elev. LT.	-2%
Sup. Elev. RT.	-2%

CLIENT	CONSULTANT	PROJECT	ROAD No. 02 (ROW 120') PLAN AND PROFILE FROM RD. 29+00 TO RD. 34+30.42	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE: NESPAK HOUSE, 1C, BLOCK-8, MODEL TOWN EXTENSION, LAHORE, PAKISTAN</small>	<small>04</small> <small>03</small> <small>02</small> <small>01</small> <small>00</small> <small>01</small> <small>02</small> <small>03</small> <small>04</small> <small>05</small> <small>06</small> <small>07</small> <small>08</small> <small>09</small> <small>10</small> <small>11</small> <small>12</small> <small>13</small> <small>14</small> <small>15</small> <small>16</small> <small>17</small> <small>18</small> <small>19</small> <small>20</small> <small>21</small> <small>22</small> <small>23</small> <small>24</small> <small>25</small> <small>26</small> <small>27</small> <small>28</small> <small>29</small> <small>30</small> <small>31</small> <small>32</small> <small>33</small> <small>34</small> <small>35</small> <small>36</small> <small>37</small> <small>38</small> <small>39</small> <small>40</small> <small>41</small> <small>42</small> <small>43</small> <small>44</small> <small>45</small> 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SCHEDULE OF INTERNAL FINISHES

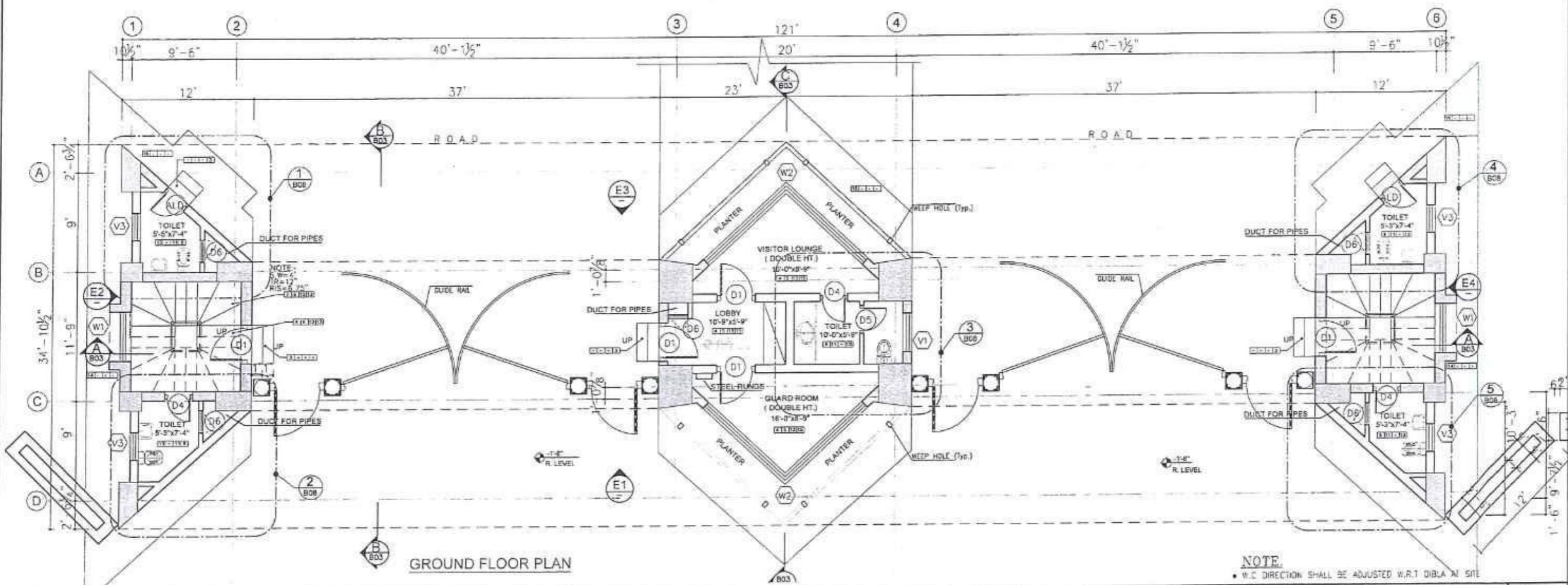
LEGEND

SKIRTING FLOOR

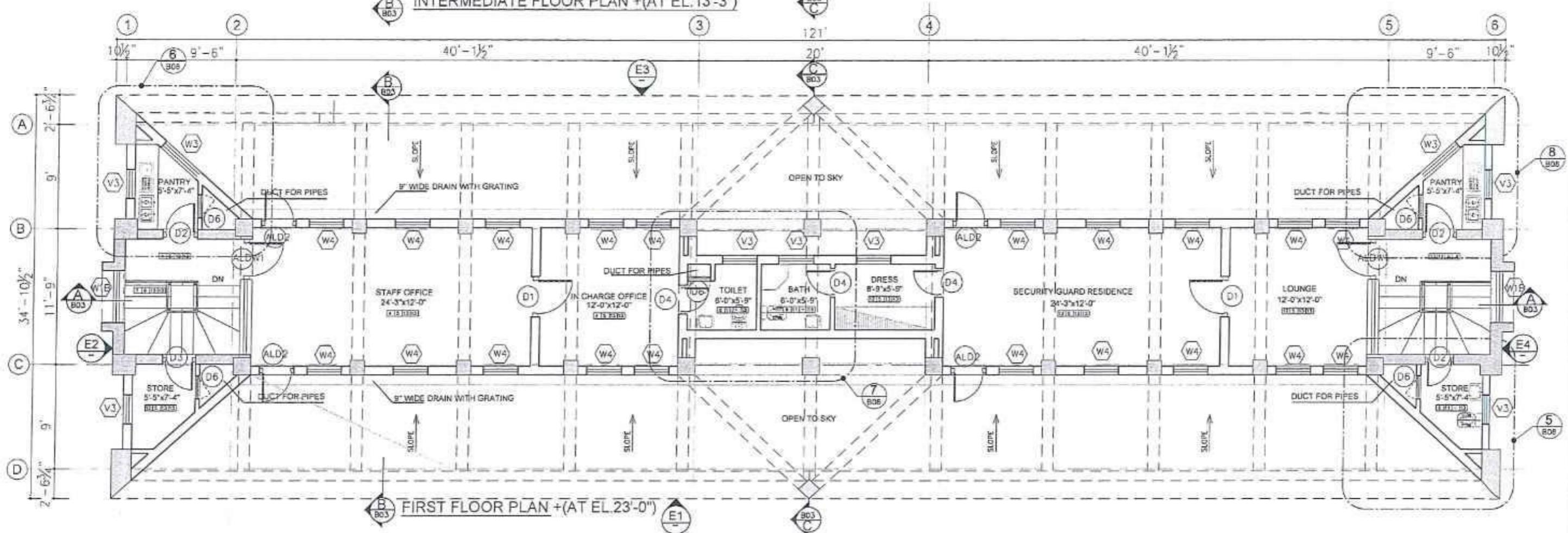
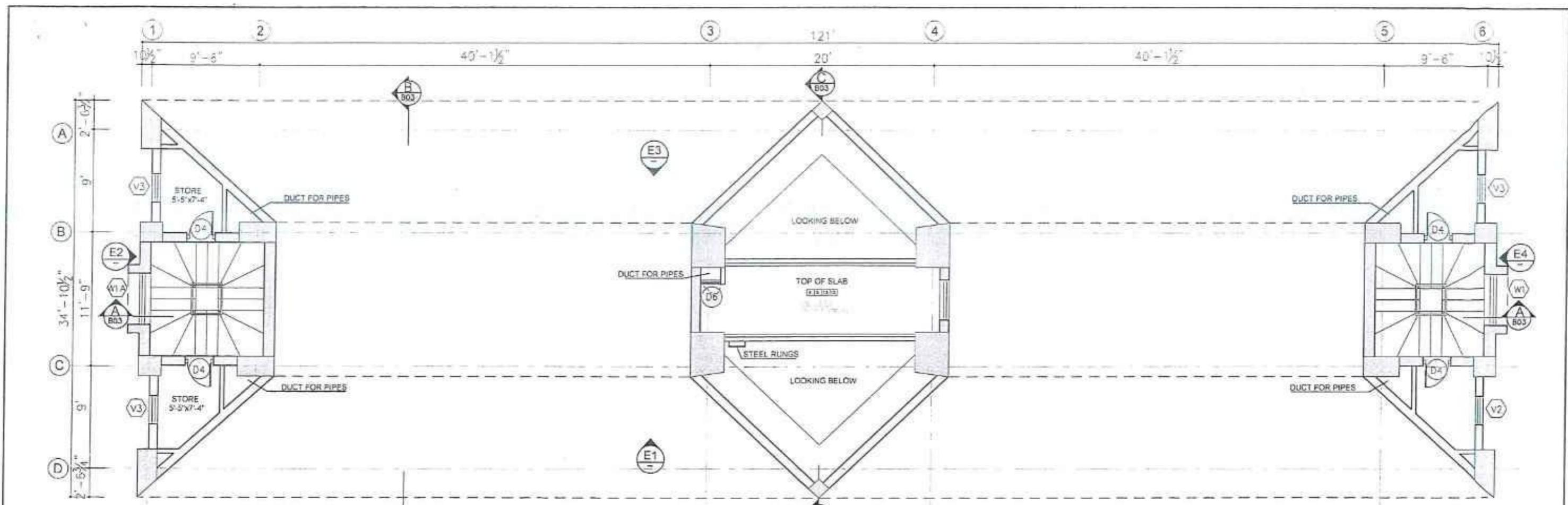
WALL

CEILING

- ① 24" x 24", 3/4" TH. IMPORTED GRANITE SLABS OF APPROVED COLOUR AND PATTERN.
- ② 24" x 24", 3/4" TH. IMPORTED GRANITE SKIRTING OF APPROVED COLOUR AND PATTERN.
- ③ 3/4" TH. IMPORTED GRANITE SLABS FOR TREADS & RISERS (1/4" E-O OF LONG PIECE) OF APPROVED COLOUR AND PATTERN (WITH NON-SKID GROOVES).
- ④ 24" x 24", 3/4" TH. CHINA VENICE MARBLE TILES OF APPROVED COLOUR & PATTERN WITH X-FIX PATTERN AT INTERVALS AND 1 1/8" x 1/8" TH. BLACK MARBLE DIVIDING STRIP.
- ⑤ 24" x 24", 3/8" TH. CHINA VENICE MARBLE SKIRTING OF APPROVED COLOUR AND PATTERN.
- ⑥ 48" HIGH DADO OF 24" x 12", 1/8" TH. CHINA VENICE MARBLE TILES OF APPROVED COLOUR & PATTERN AND 24" x 12", 2/3" TH. CHINA VENICE MARBLE AT TOP WITH PLASTIC EMULSION PAINT (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING.
- ⑦ 1/4" TH. CHINA VENICE MARBLE SLABS FOR TREADS & RISERS (1/4" E-O LONG PIECE) OF APPROVED COLOUR AND PATTERN (WITH NON-SKID GROOVES).
- ⑧ LOCAL FULL BODY POLISHED/MATT PORCELAIN TILES OF APPROVED SIZE, PATTERN, COLOUR AND MAKE.
- ⑨ 4" HIGH SKIRTING OF LOCAL FULL BODY POLISHED/MATT PORCELAIN TILES OF APPROVED SIZE, PATTERN, COLOUR AND MAKE.
- ⑩ 80" HIGH DADO OF LOCAL FULL BODY POLISHED/MATT PORCELAIN TILES OF APPROVED SIZE, PATTERN, COLOUR AND MAKE WITH PLASTIC EMULSION PAINT (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING.
- ⑪ 84" HIGH DADO OF LOCAL FULL BODY MATT PORCELAIN TILES OF APPROVED SIZE, PATTERN, COLOUR AND MAKE WITH PLASTIC EMULSION PAINT (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING.
- ⑫ 12" x 12", 1" TH. PRECAST MOSAIC MARBLE CHIPS TILES IN WHITE CEMENT OF APPROVED COLOUR AND MAKE WITH 1/2" x 1/8" TH. MARBLE DIVIDING STRIPS WHERE REQUIRED PLASTIC EMULSION PAINT MATT FINISH ON CS PLASTER, OF APPROVED MAKE & SHADE.
- ⑬ P.C.C. (1:2:4) LAD IN PANELS WITH MARBLE DIVIDING STRIPS.
- ⑭ SPECIAL ALUMINUM FALSE CEILING.
- ⑮ PAVERS (6MM TH) PRECAST CONCRETE PAVERS OF APPROVED MAKE AND SHADE.



CLIENT	CONSULTANT	PROJECT						SCALE
		04	03	02	01	DRAWN BY	JERRY	
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N MODEL TOWN EXTENSION, LAHORE, PAKISTAN	04	03	02	01	SUBMITTED RECOMMENDED CHOVER.	<i>Ad</i>	MAIN ENTRANCE GATE STRUCTURE GROUND FLOOR PLAN WITH BOUNDARY WALL AS SHOWN
		DESCRIPTION	APPROVED	APPROVED	APPROVED	83	DATE NOVEMBER-2024	DRAWING No 4384/311/C/B02



CLIENT
SPECIAL TECHNOLOGY
ZONES AUTHORITY

CONSULTANT
NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD.
HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N,
MODEL TOWN EXTENSION, LAHORE, PAKISTAN.

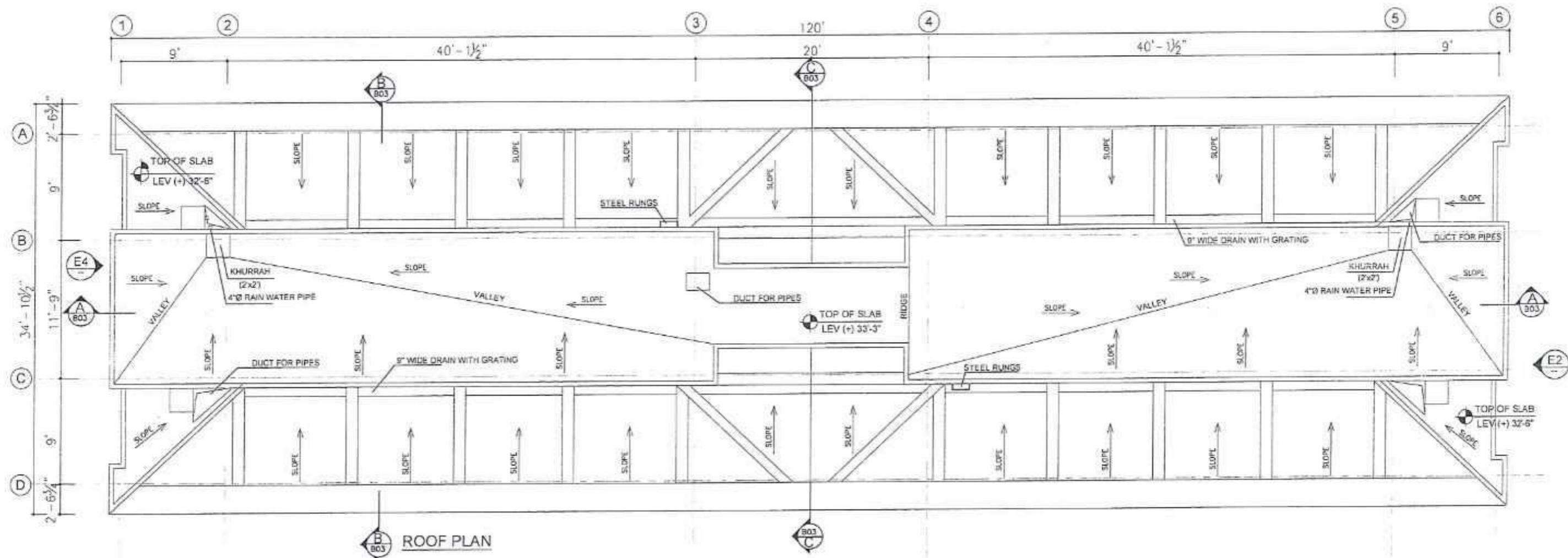
04
05
02
01
DESCRIPTION

DRAWN
SUBMITTED
RECOMMENDED
CHO/VER
APPROVED
APPROVED

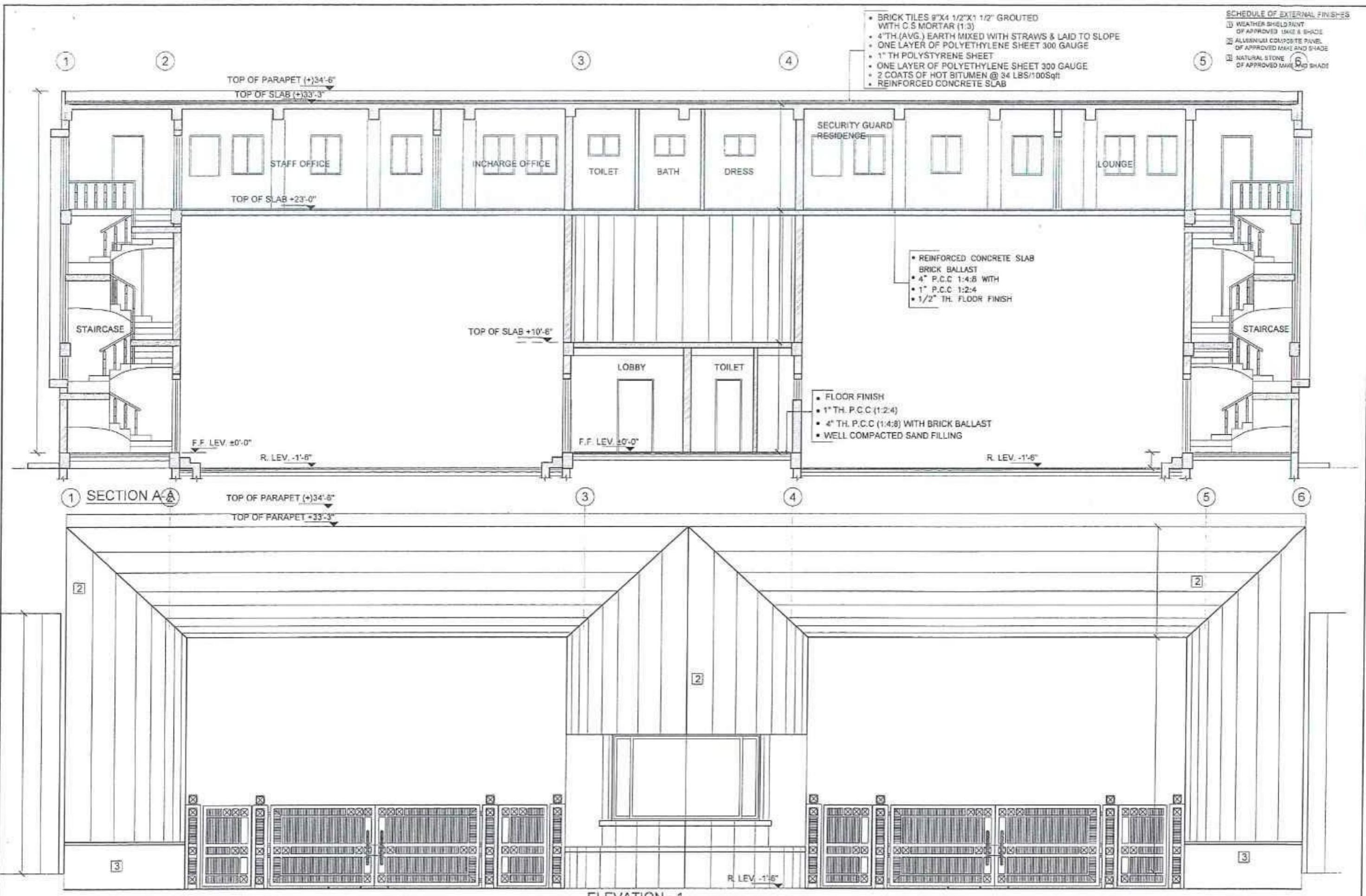
PROJECT
MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA
AND CONSTRUCTION SUPERVISION OF ISLAMABAD
SPECIAL TECHNOPOLIS

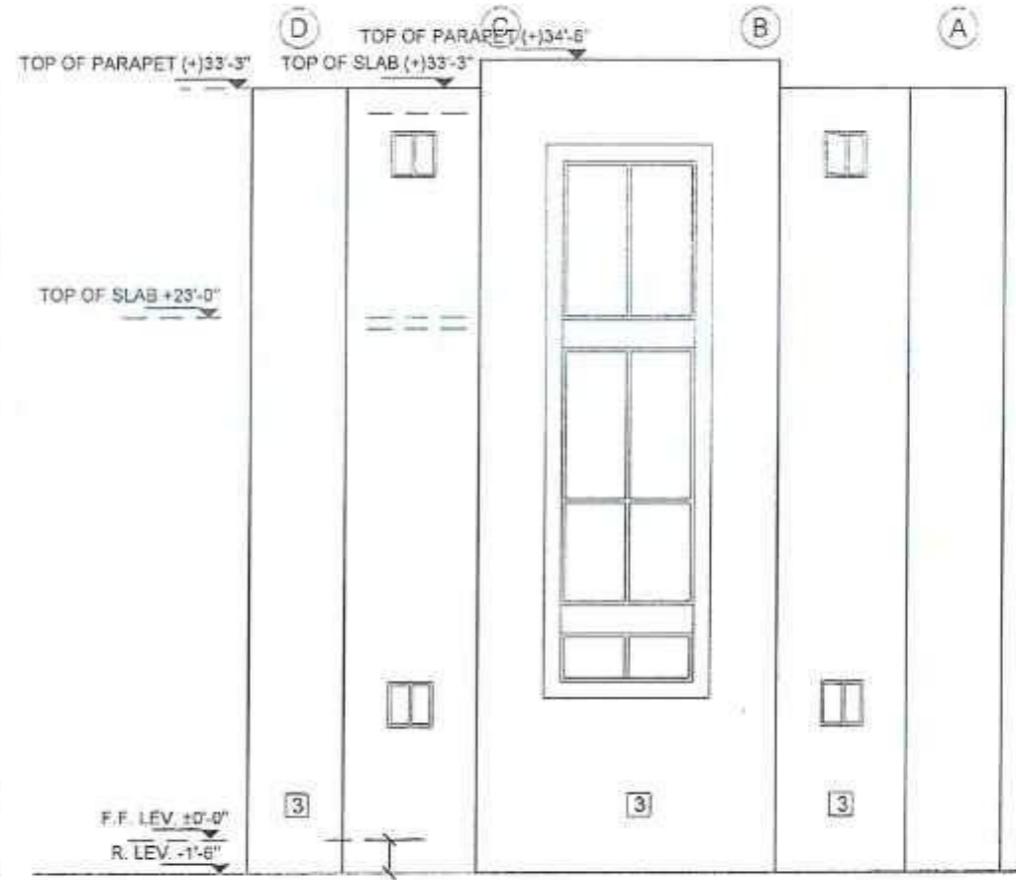
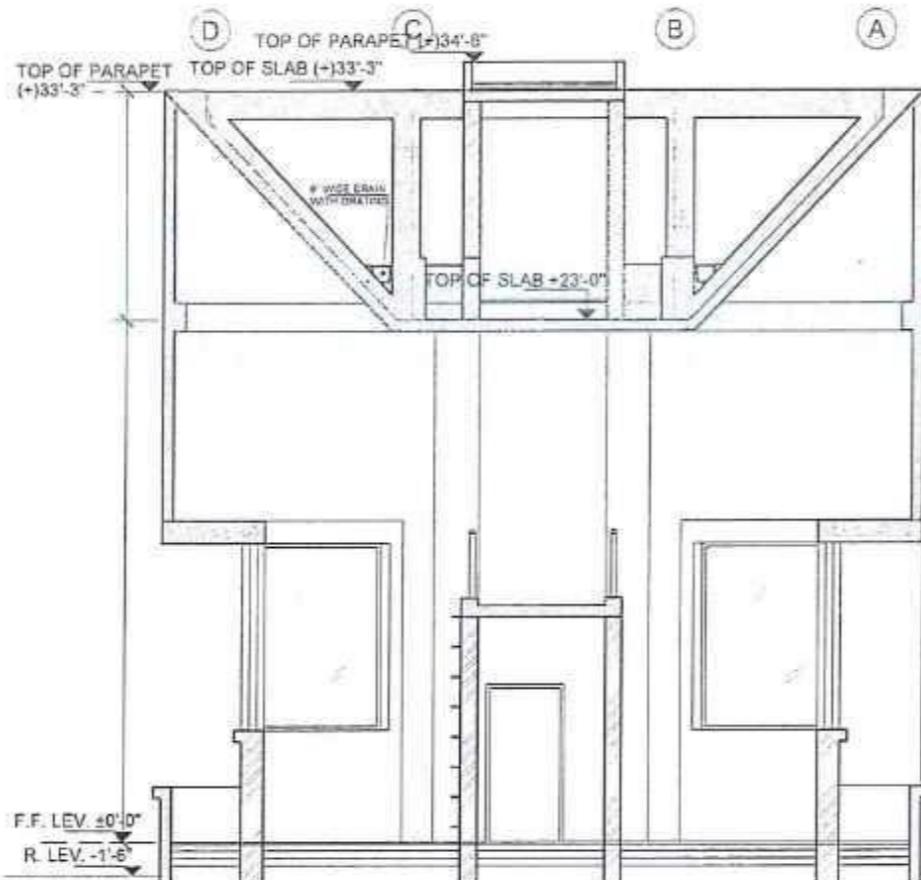
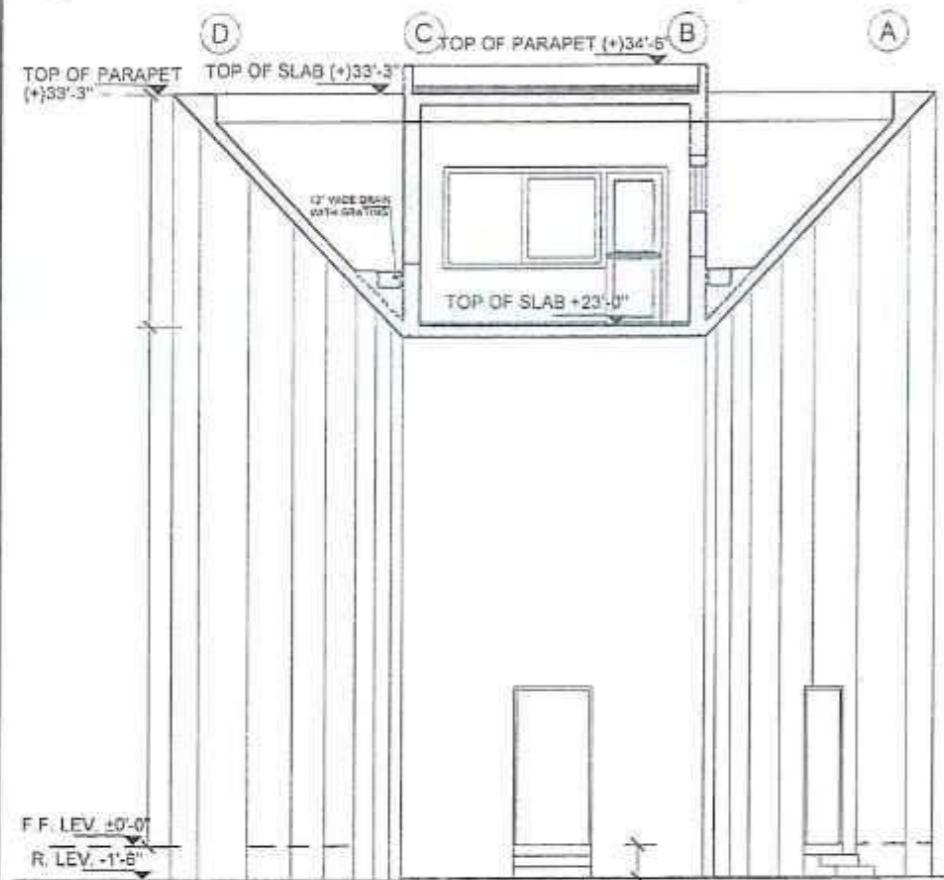
MAIN ENTRANCE GATE STRUCTURE
INTERMEDIATE FLOOR & FIRST FLOOR PLANS
DATE
NOVEMBER-2024
DRAWING No.
4384/311/C/B03
SCALE
AS SHOWN
REV. 0

E:\\2024\\GATE PLAN\\GATE PLAN JERRY 11-6-2024\\GATE PLAN AND ELEVATION 04-11-2024.DWT



CLIENT	CONSULTANT	PROJECT						MAIN ENTRANCE GATE STRUCTURE TOP ROOF PLAN	SCALE AS SHOWN
		04	03	02	01	DRAWN SUBMITTED RECOMMENDED CHQ/VER	JERRY REVIEWED APPROVED APPROVED		
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN							MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	DATE: NOVEMBER 2024 DRAWING No: 4384/311/C/B04 REV: 0

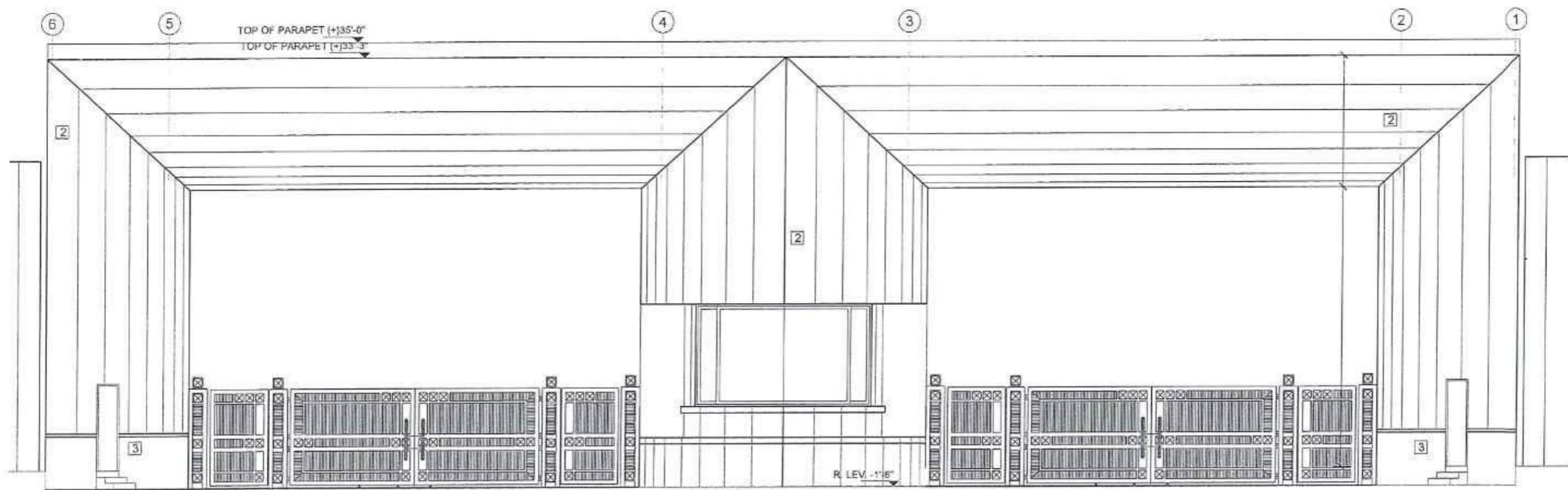




SECTION B-B

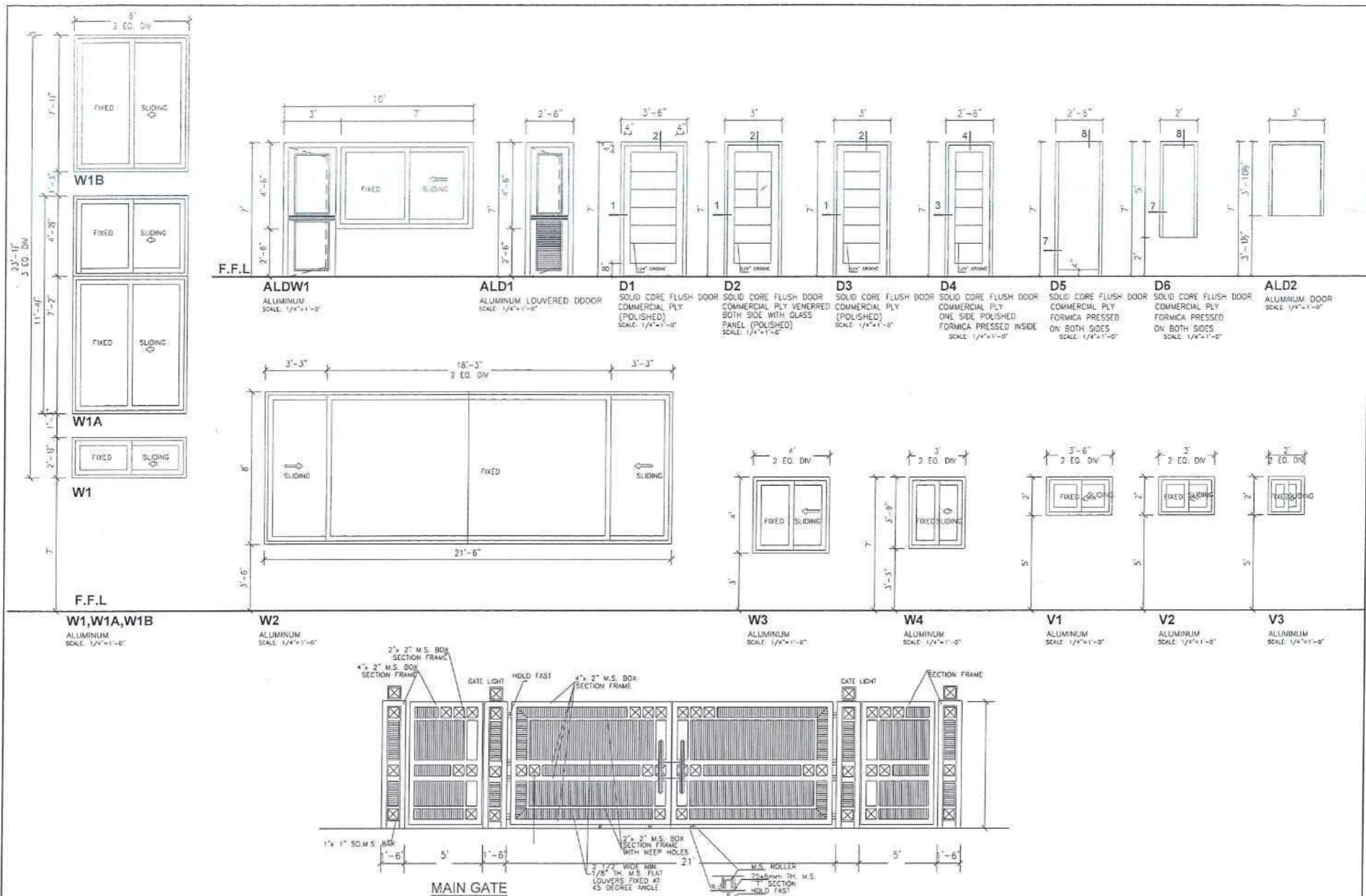
SECTION C-C

ELEVATION - 2 & 4

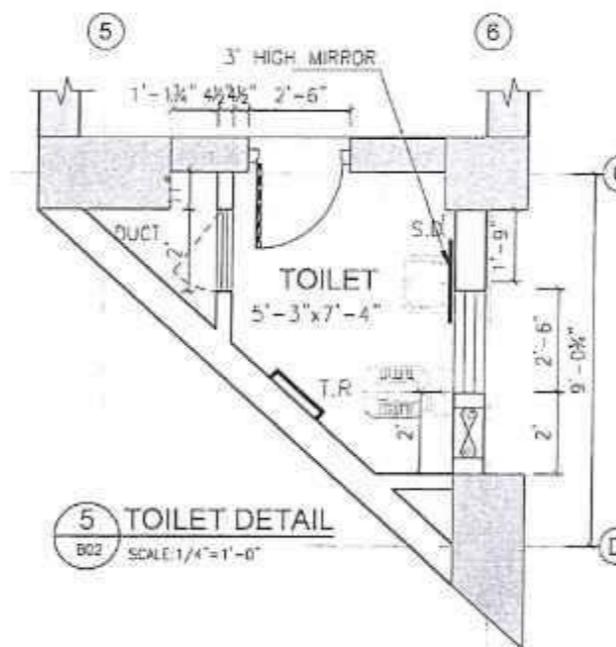
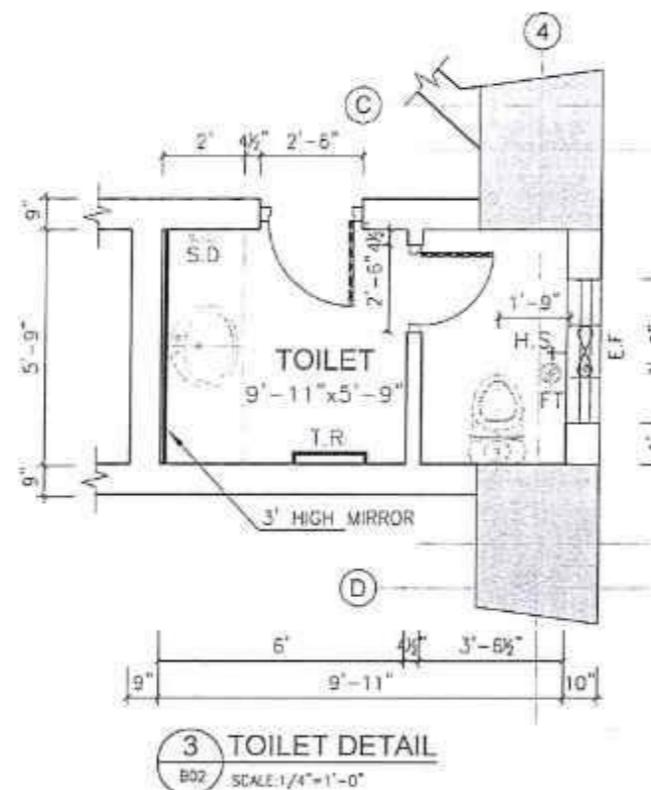
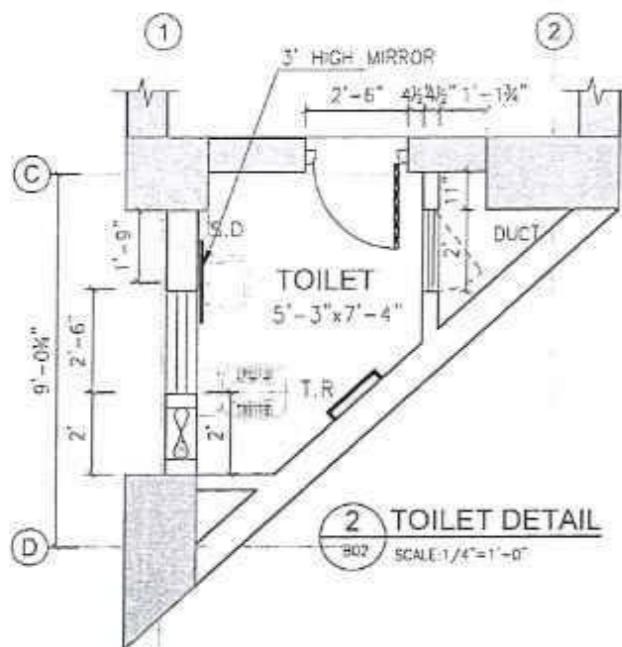
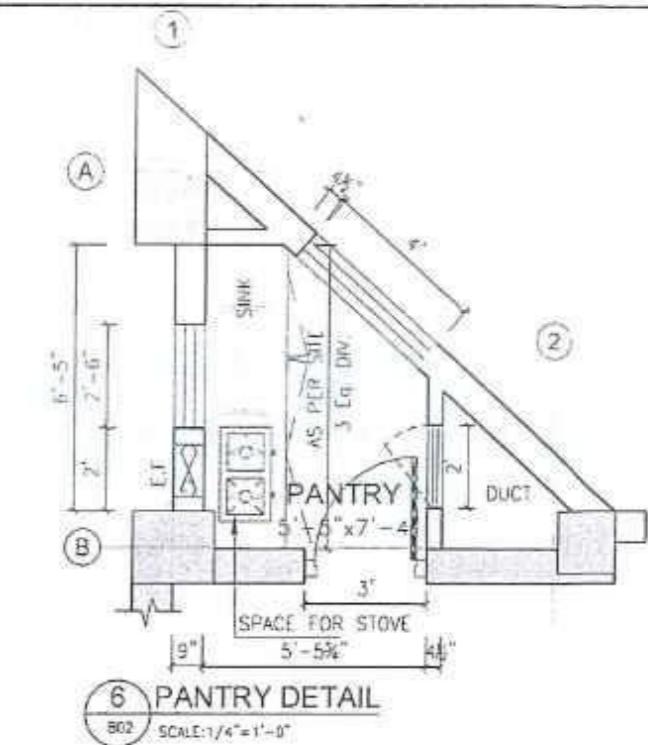
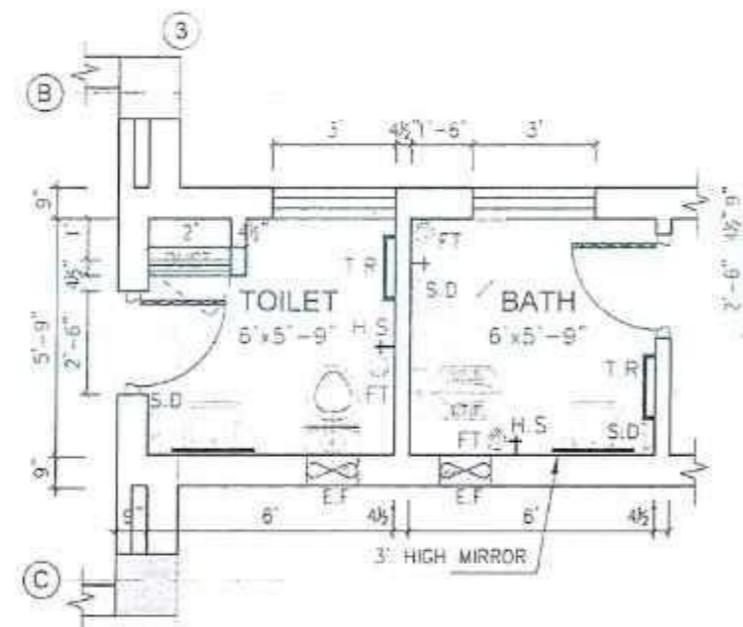
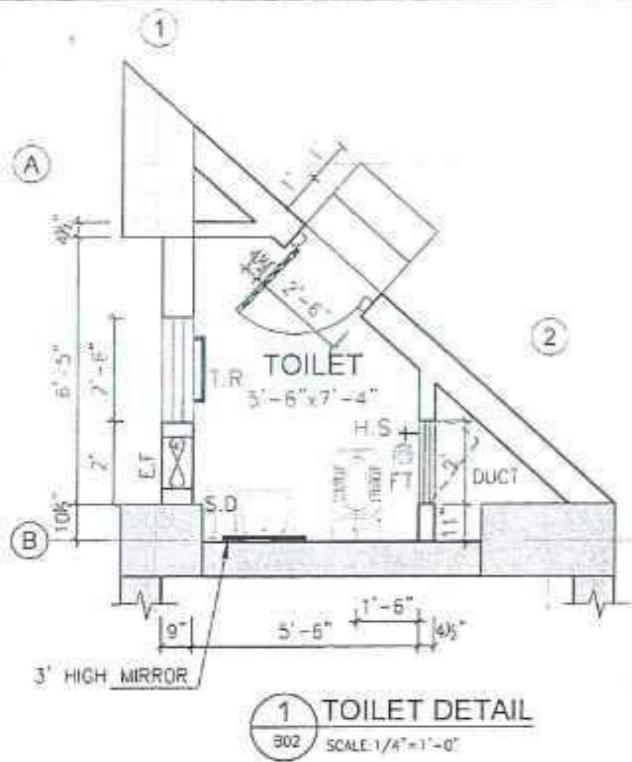


ELEVATION - 3

CLIENT SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	04			DRAWN	JERRY	PROJECT MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOOLIS	MAIN ENTRANCE GATE STRUCTURE SECTION B-B & ELEVATIONS		SCALE AS SHOWN
		03			SUBMITTED					
		02			RECOMMENDED	<i>Jerry</i>				
		01			CHOOVER					
			DESCRIPTION	APPROVED	APPROVED	<i>LS</i>		DATE NOVEMBER- 2024	DRAWING No. 4384/311/C/B06	REV. <i>0</i>



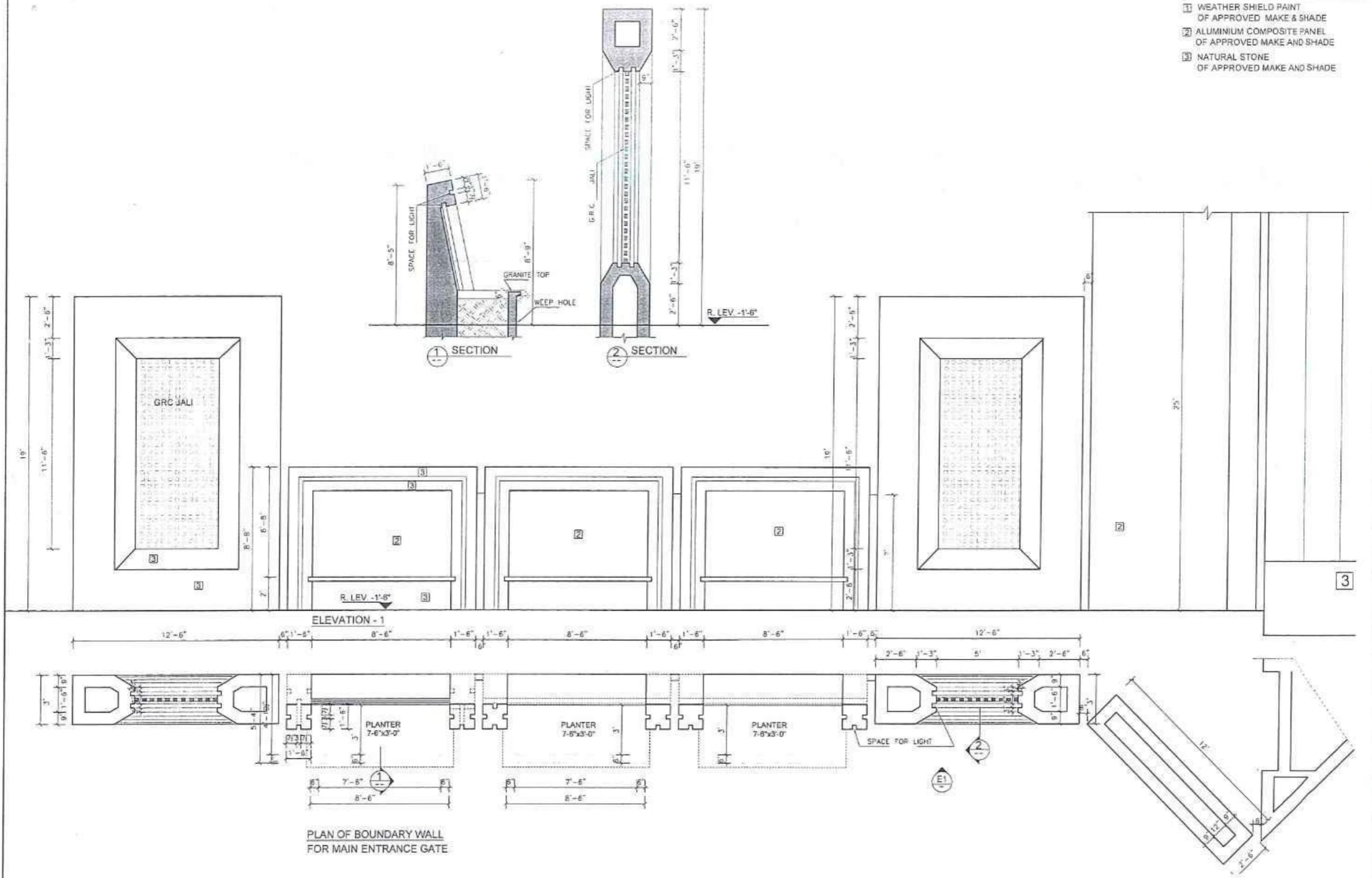
CLIENT SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04			DRAWN	JERRY	PROJECT MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	MAIN ENTRANCE GATE STRUCTURE GATE, DOOR, WINDOW ELEVATIONS	SCALE AS SHOWN
		03			SUBMITTED				
		02			RECOMMENDED	<i>Mu</i>			
		01			CHD/VER				
			DESCRIPTION	APPROVED	APPROVED	<i>R</i>			



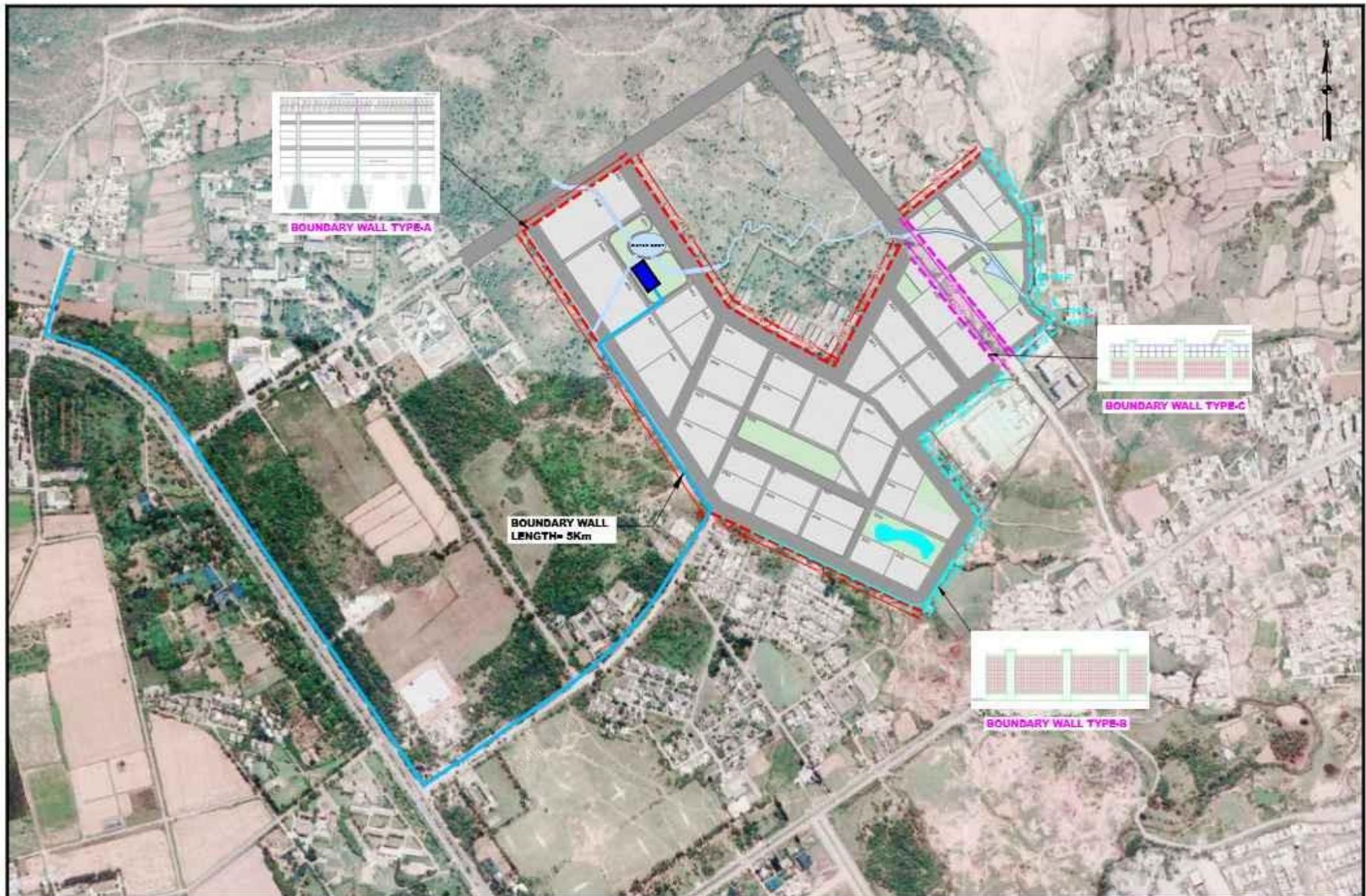
CLIENT SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04			DRAWN	JERRY	PROJECT MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	MAIN ENTRANCE GATE STRUCTURE TOILETS AND PANTRY DETAILS		SCALE AS SHOWN	
		03			SUBMITTED						
		02			RECOMMENDED	<i>lala</i>					
		01			CHOSEN						
			DESCRIPTION	APPROVED	APPROVED	<i>lala</i>		DATE	DRAWING No		
								NOVEMBER-2024	4384/311/C/B08	REV. <i>D</i>	

SCHEDULE OF EXTERNAL FINISHES

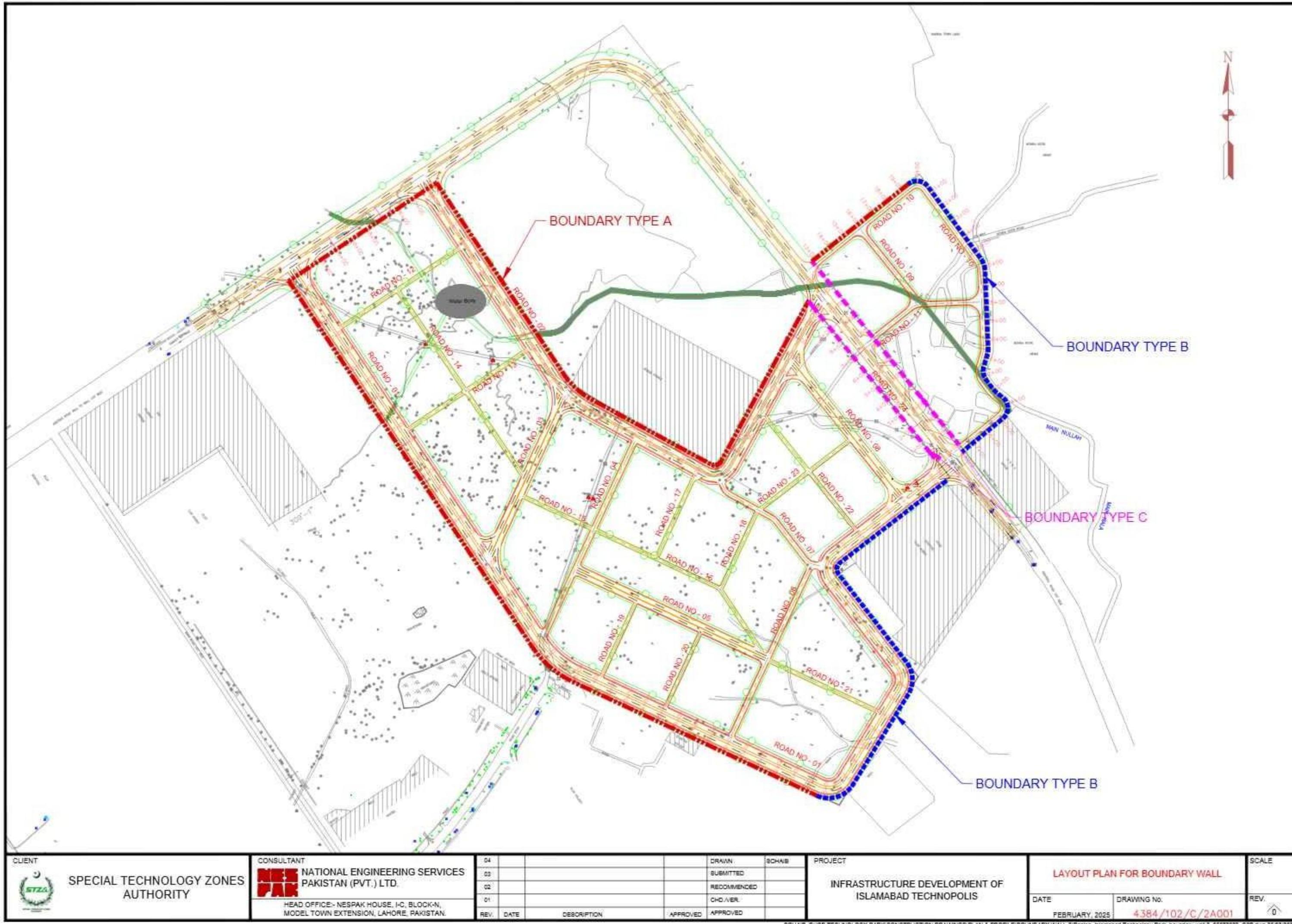
- ① WEATHER SHIELD PAINT OF APPROVED MAKE & SHADE
- ② ALUMINIUM COMPOSITE PANEL OF APPROVED MAKE AND SHADE
- ③ NATURAL STONE OF APPROVED MAKE AND SHADE

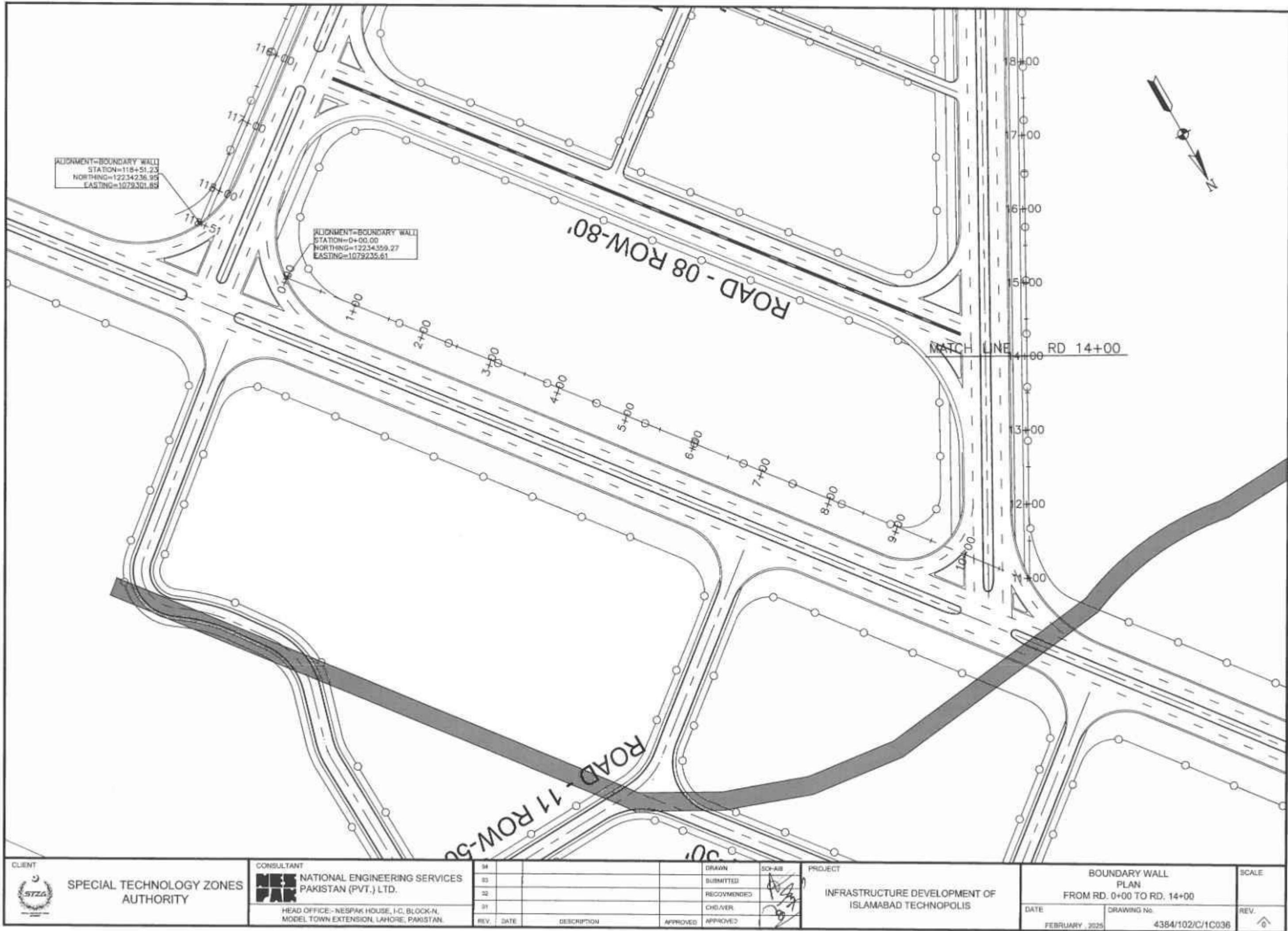


CLIENT	CONSULTANT	PROJECT	SCALE	
			DATE	DRAWING No.
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	NOVEMBER, 2024	4384/311/C/B 09
	HEAD OFFICE - NESPAK HOUSE, I-C BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.			REV. 0
		DESCRIPTION	APPROVED	APPROVED

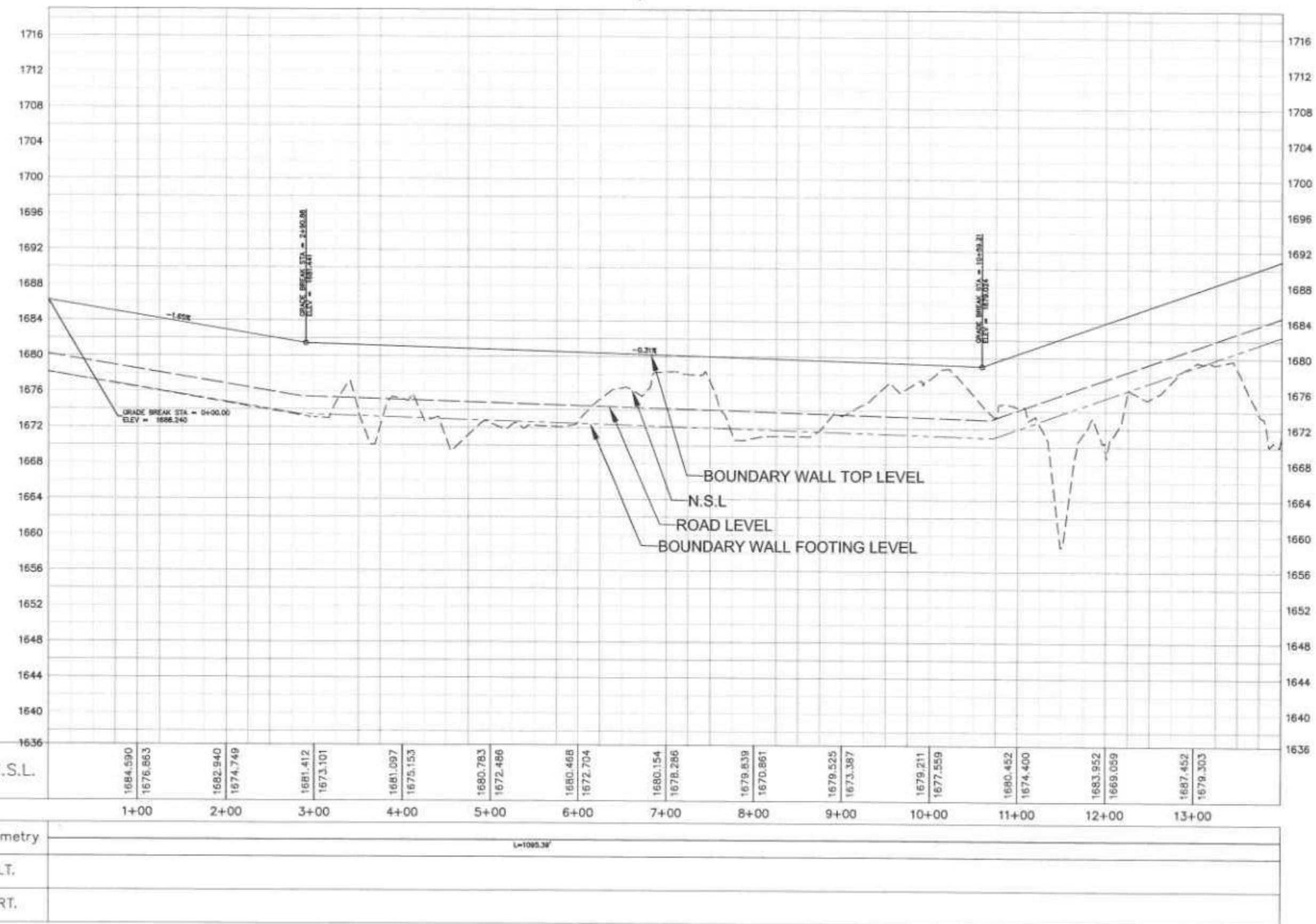


CLIENT	CONSULTANT	REV.	DATE	DESCRIPTION	APPROVED	APPROVED	DRAWN	DRAWN	PROJECT	DATE	DRAWING NO.	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	 NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LTD. HEAD OFFICE - NEGPARK HOUSE NO. 12, BLOCK A, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	00					SUBMITTED				4384/11/C/B10	M.T.S

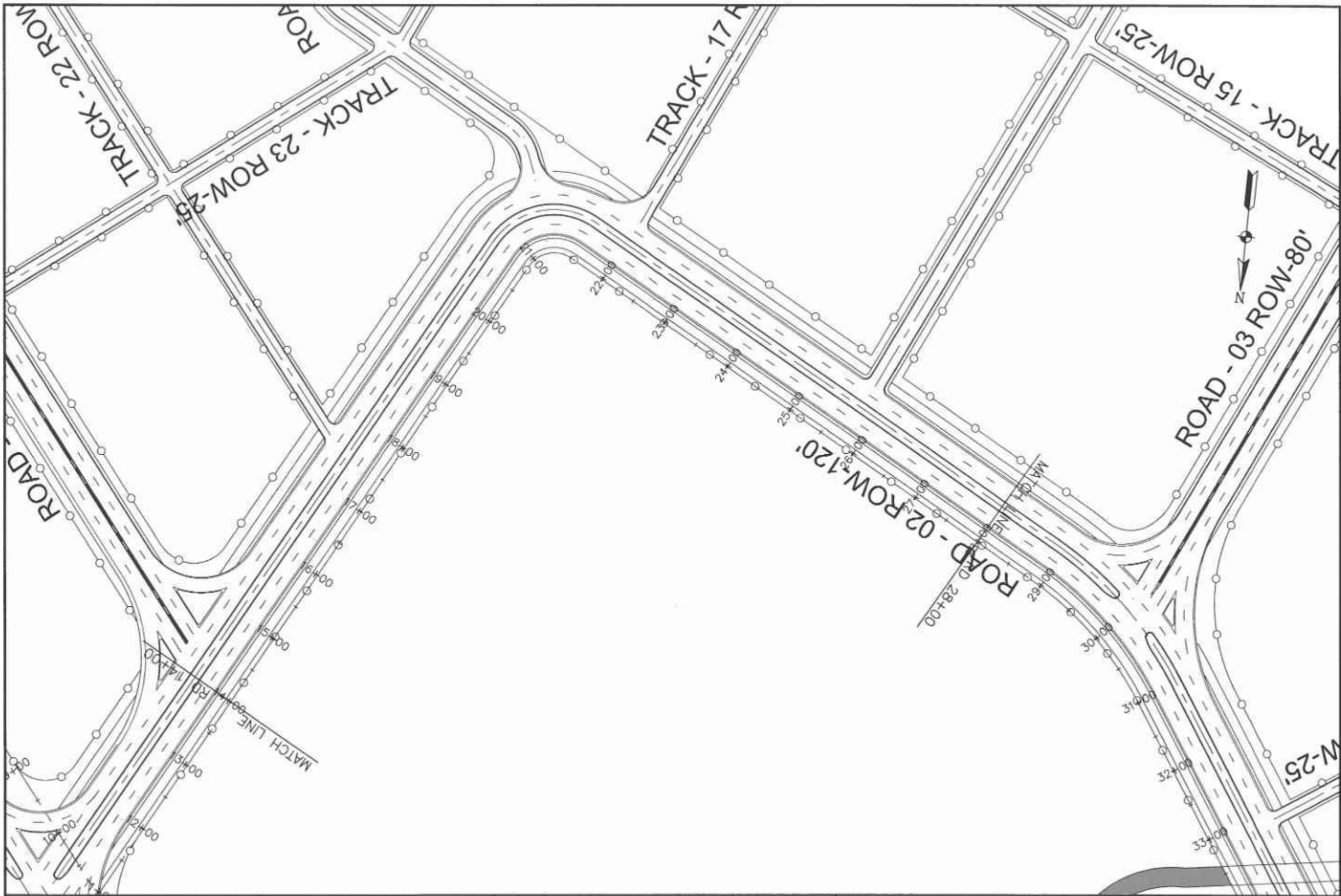




Boundary Wall PROFILE

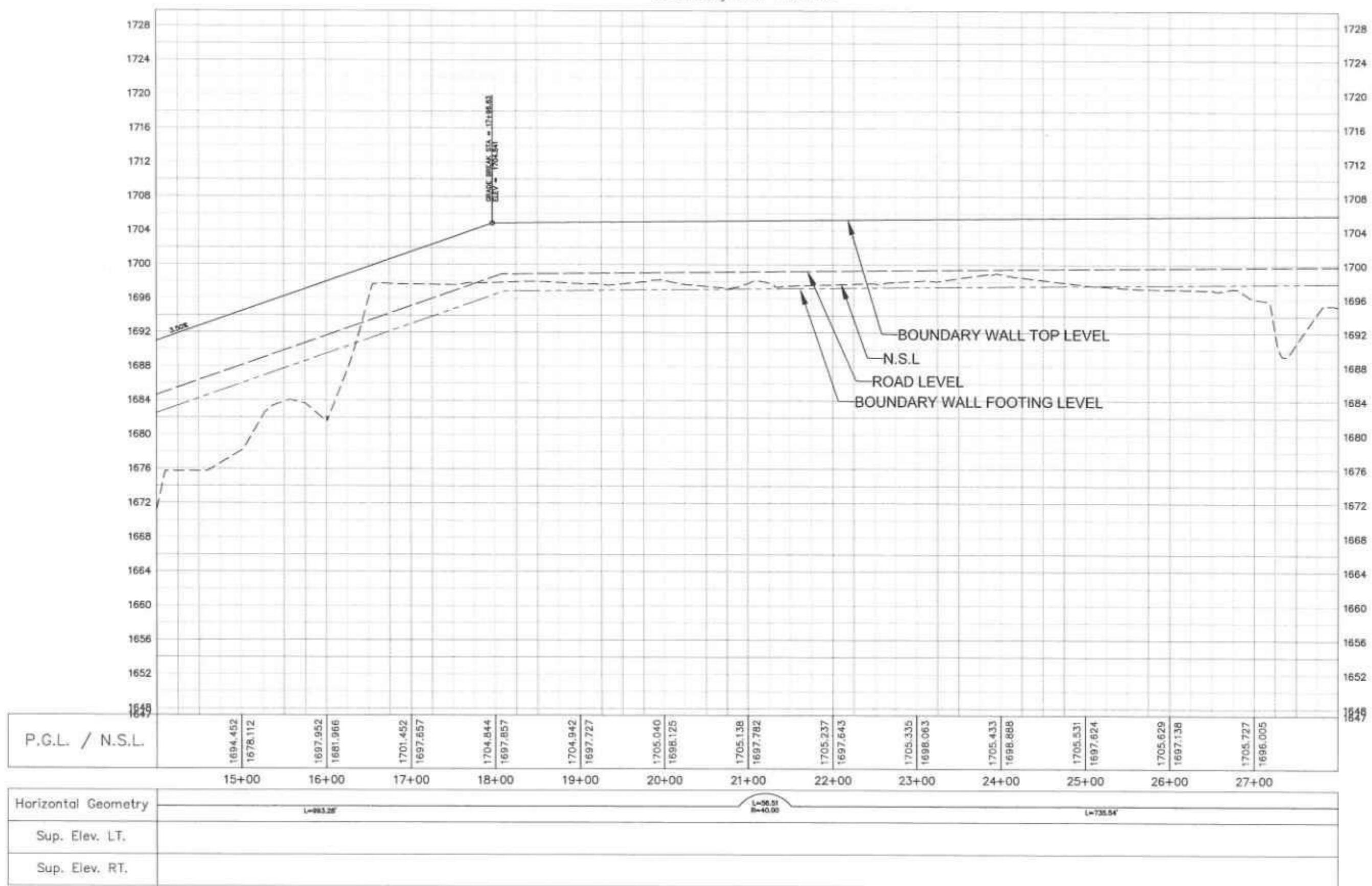


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	34	35	36	DRAWN	SOA-NB	PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLE	BOUNDARY WALL PROFILE FROM RD. 0+00 TO RD. 14+00		SCALE
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED		DATE	DRAWING No.	
		HEAD OFFICE: NEPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.							FEBRUARY, 2025	4384/102/C/1C036A	

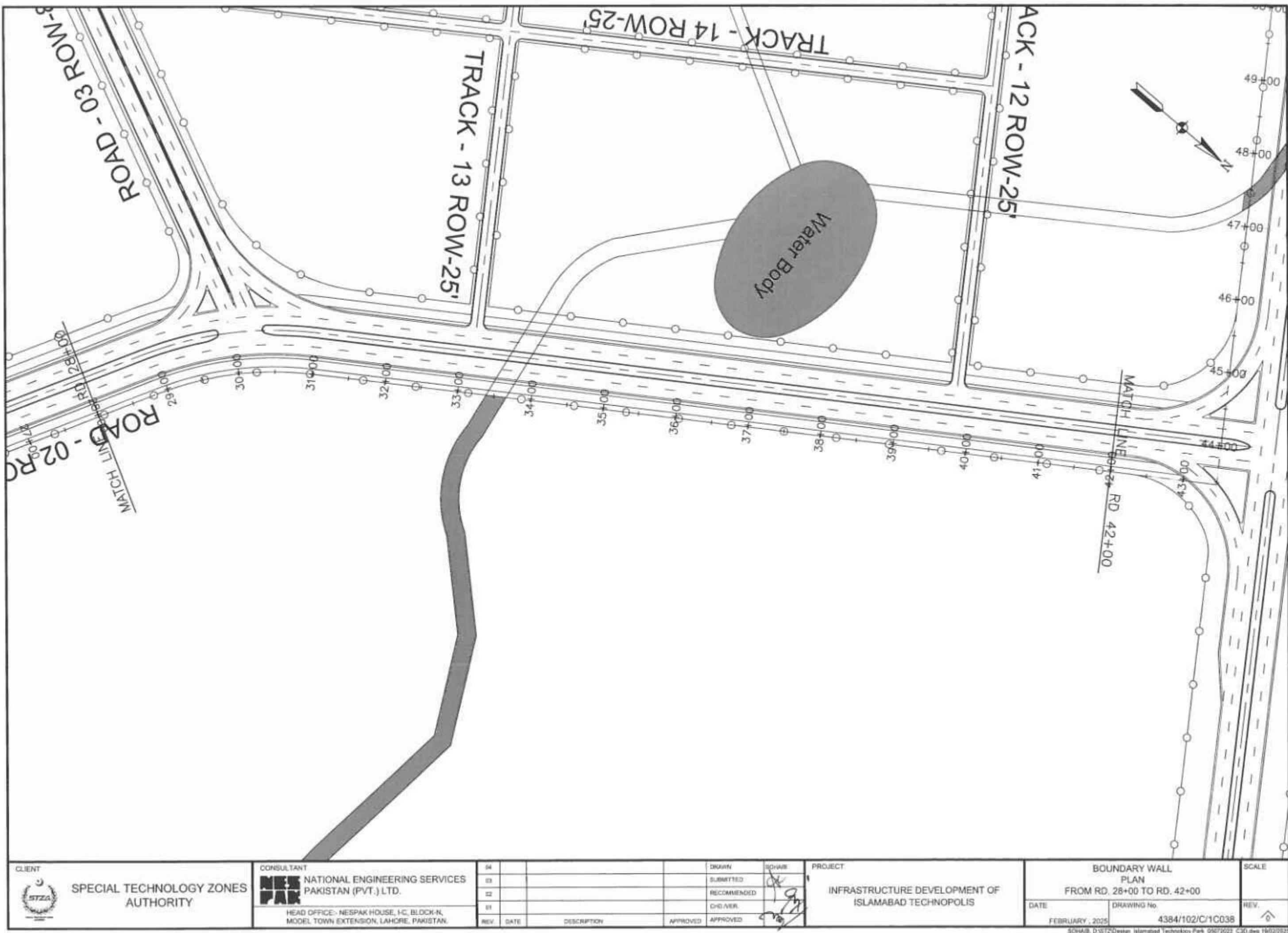


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. 	04 05 02 01			DRAWN SUBMITTED RECOMMENDED CHECKED	SOA/AB <i>[Signature]</i>	PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLEIS	BOUNDARY WALL PLAN FROM RD. 14+00 TO RD. 28+00	SCALE
		HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	REV. DATE	DESCRIPTION	APPROVED	APPROVED		DATE FEBRUARY, 2025	DRAWING NO. 4384/102/C/1C037	REV. 0

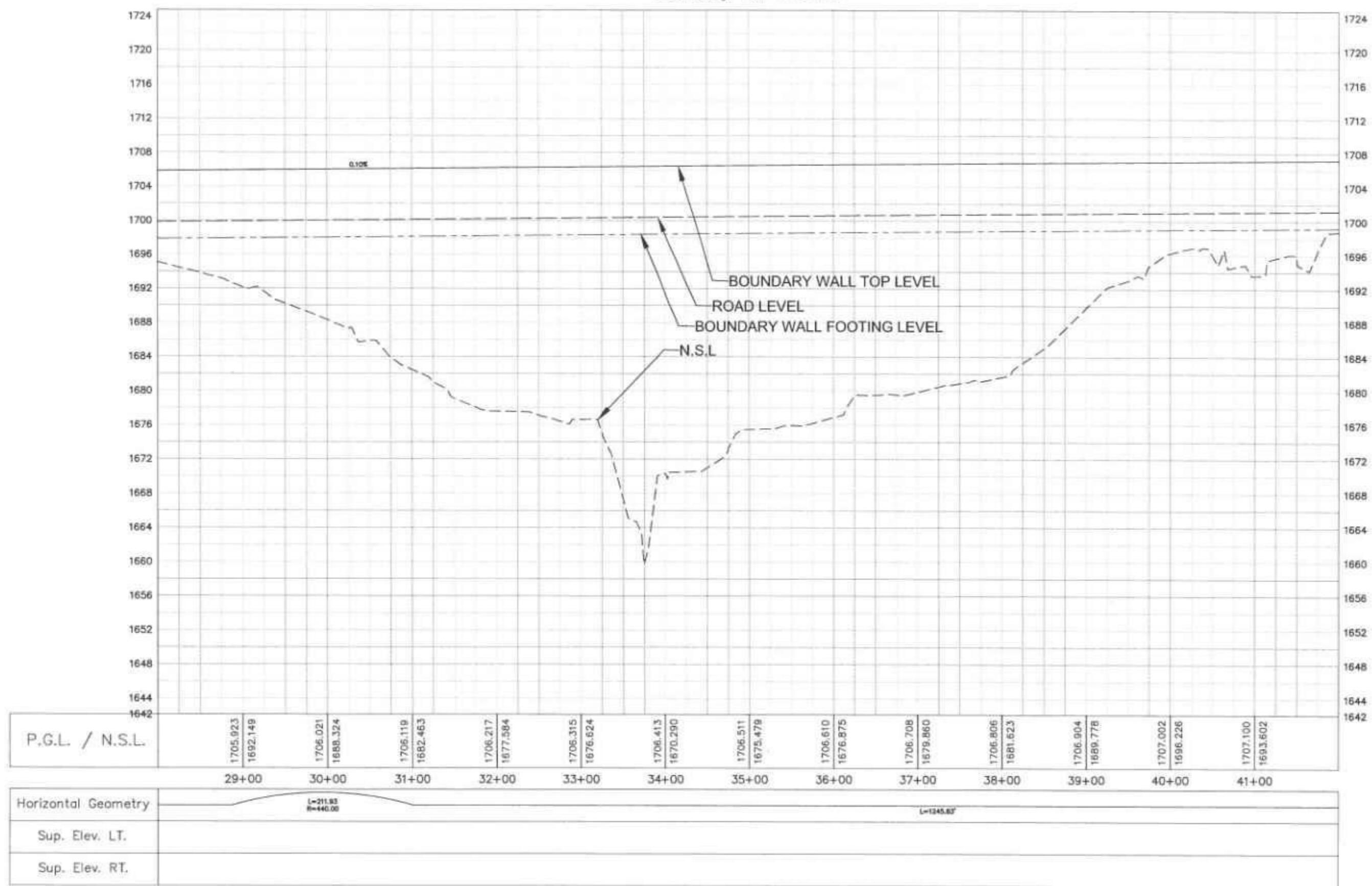
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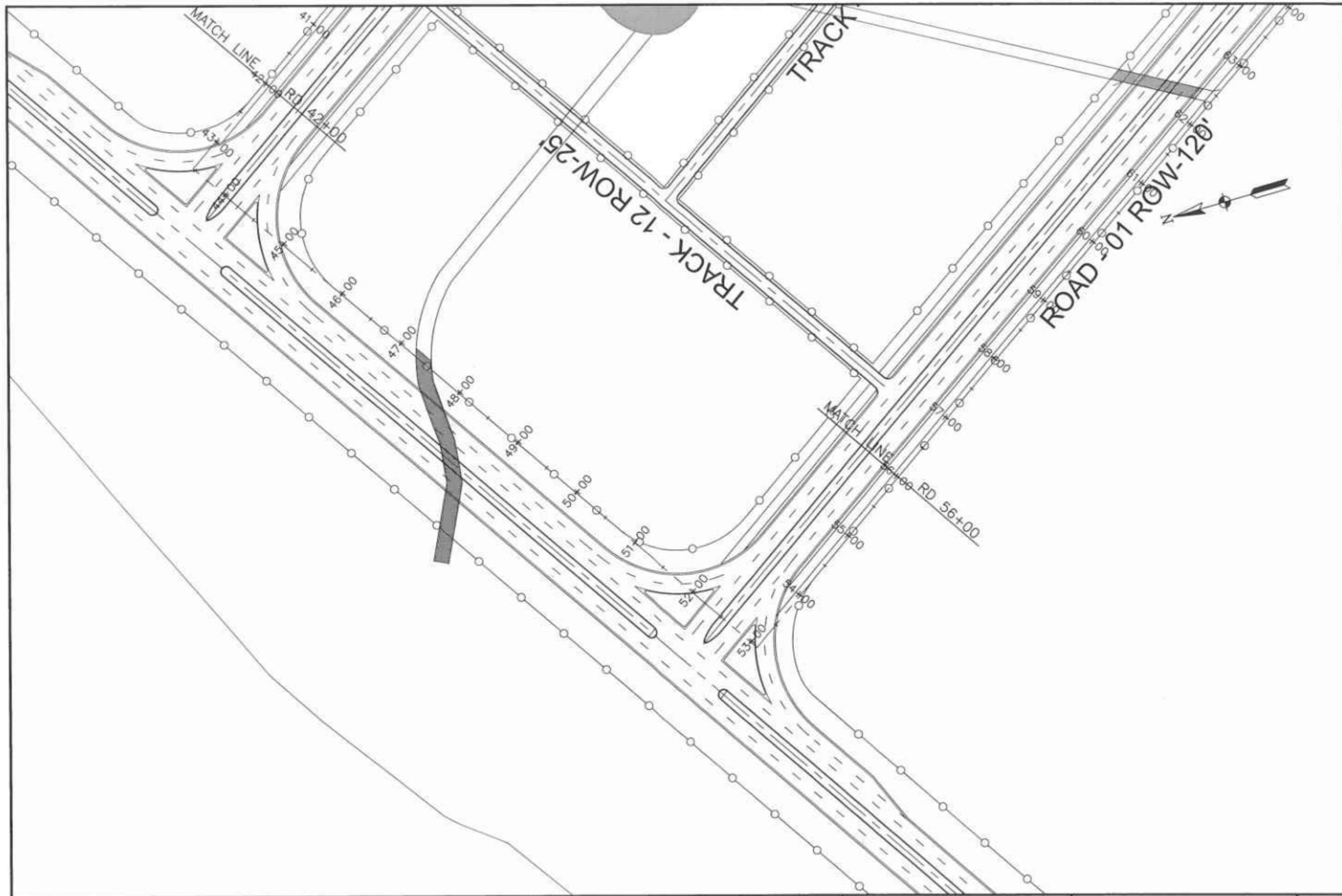
CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	DRAWN BY: [Signature]				PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOOLIS	SCALE		
			SD	SD	SD	SD		DATE	DRAWING NO.	REV.
			SD	SD	SD	SD		FEBRUARY, 2025	4384/102/C/1C037A	SD
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED			



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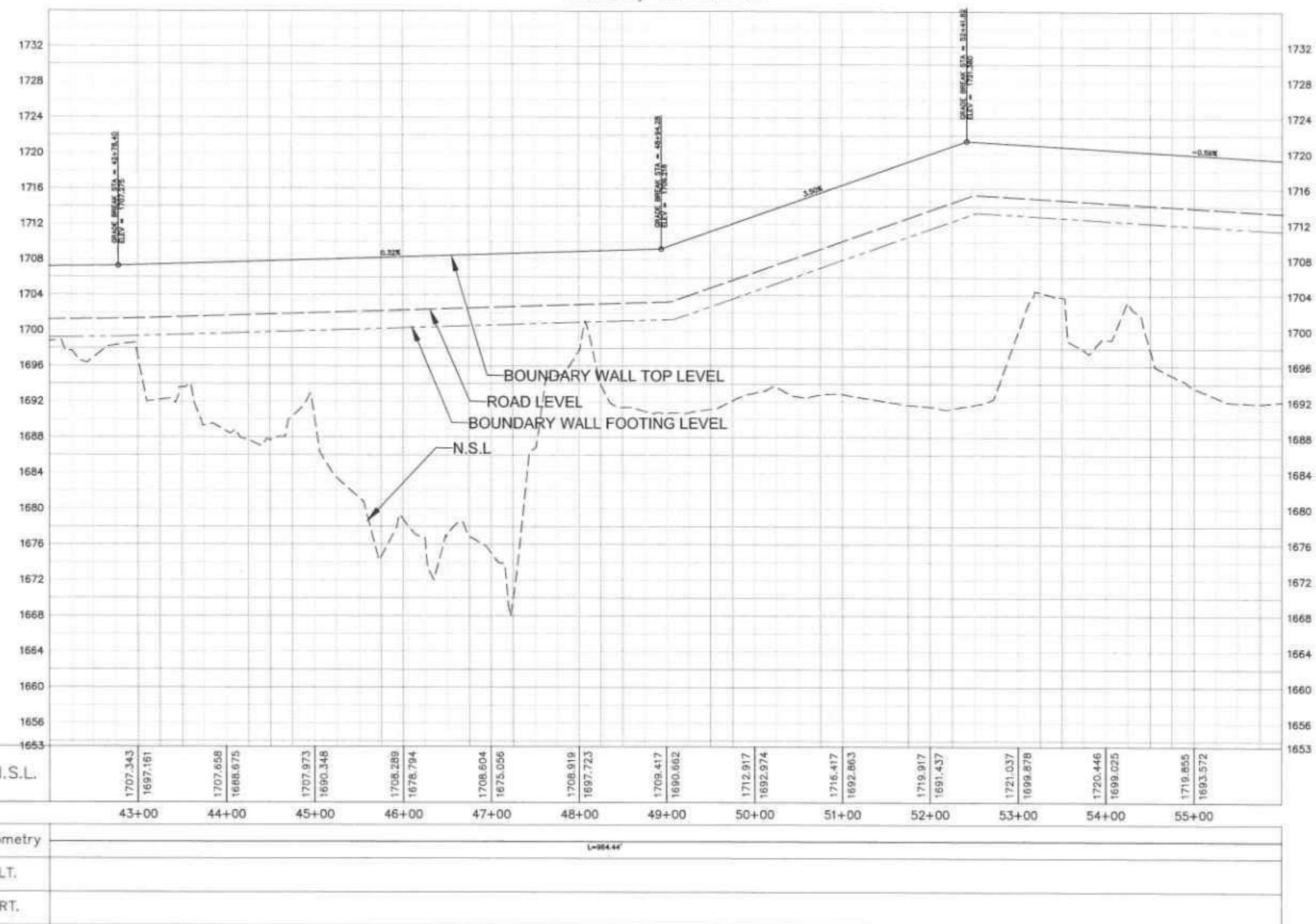


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NEESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	DRAWN BY				PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	BOUNDARY WALL PROFILE FROM RD. 28+00 TO RD. 42+00		SCALE
			SD	ED	RECOMMENDED	CHQ'DER		DATE	DRAWING NO.	
		HEAD OFFICE: - NEESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	REV:	DATE:	DESCRIPTION	APPROVED	APPROVED	FEBRUARY, 2025	4384/102/C/1C038A	REV: 0

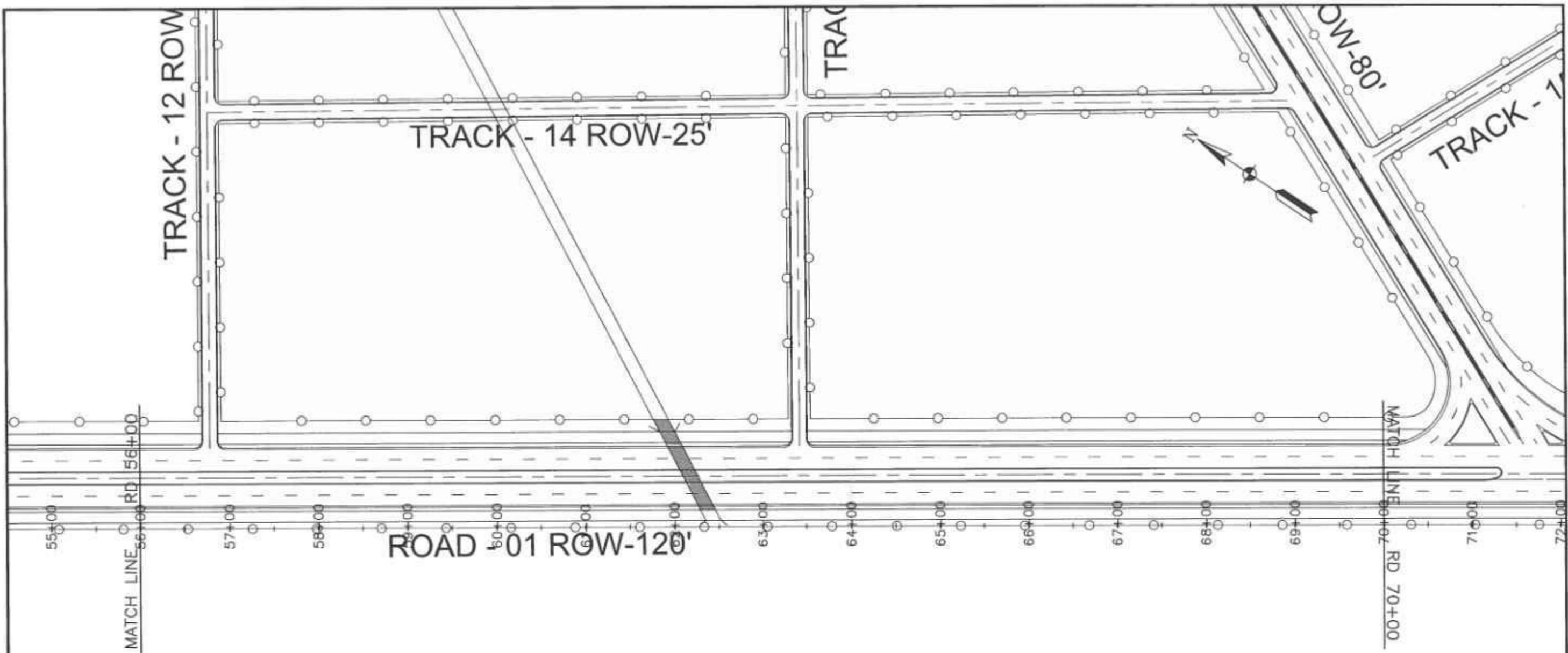


CLIENT	CONSULTANT	PROJECT	BOUNDARY WALL PLAN	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN</small>	INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	FROM RD. 42+00 TO RD. 56+00	
			DATE: FEBRUARY, 2025 DRAWING NO: 4384/102/C/1C039 REV: 0	

Boundary Wall PROFILE



CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NEESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE:- NEESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	PROJECT				DRAWING NO.	SCALE
			REV.	DATE	DESCRIPTION	APPROVED		
							FEBRUARY 2025	4384/102/C/1C039A



CLIENT	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT	PROJECT		BOUNDARY WALL PLAN	SCALE
		NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	04	DRAWN	SOHAB	
			03	SUBMITTED		
			02	RECOMMENDED		
			01	OWNER:		
			REV. DATE	DESCRIPTION	APPROVED	APPROVED

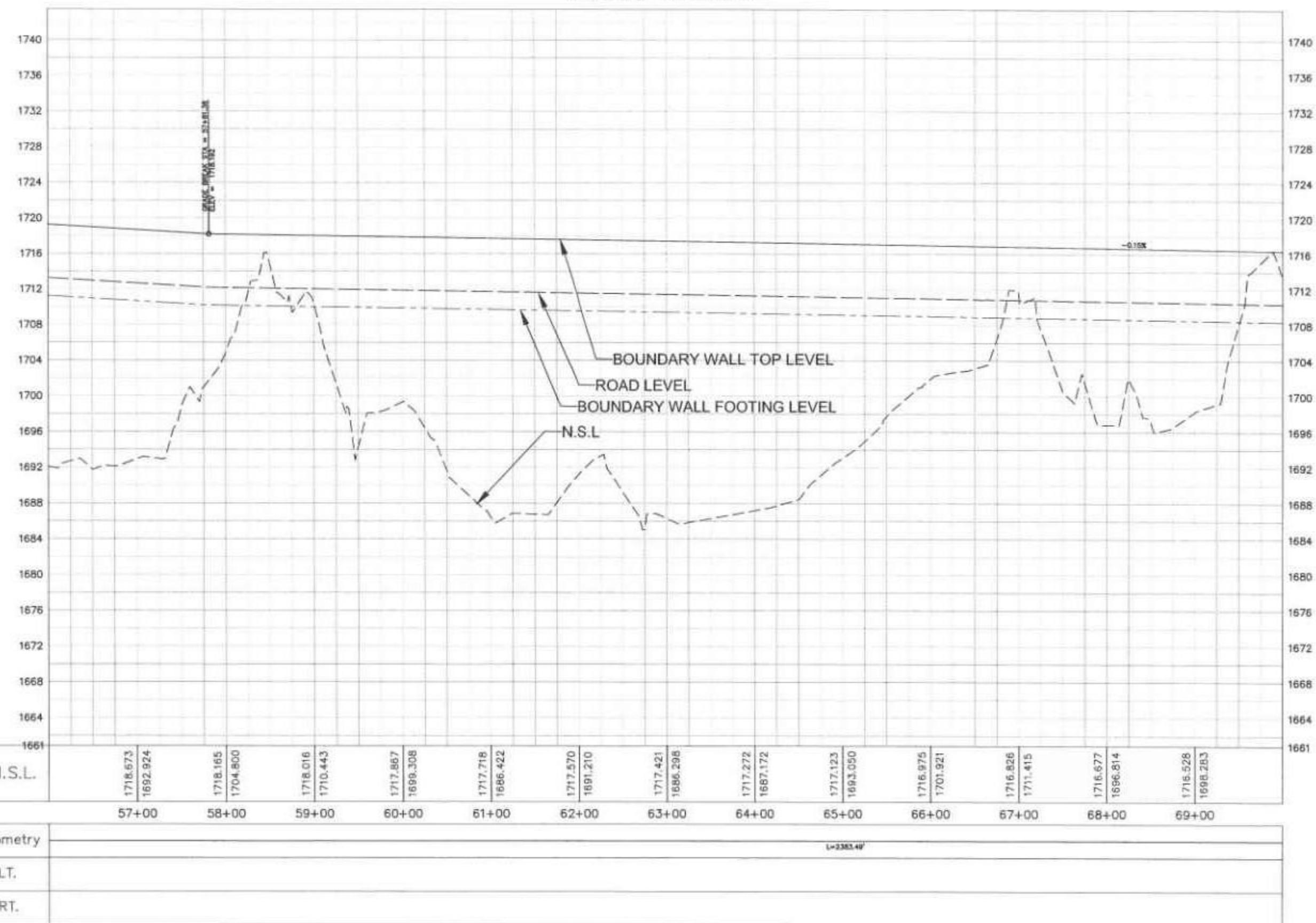
PROJECT: INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS

DATE: FEBRUARY, 2025 DRAWING No.: 4384/102/C/1C040

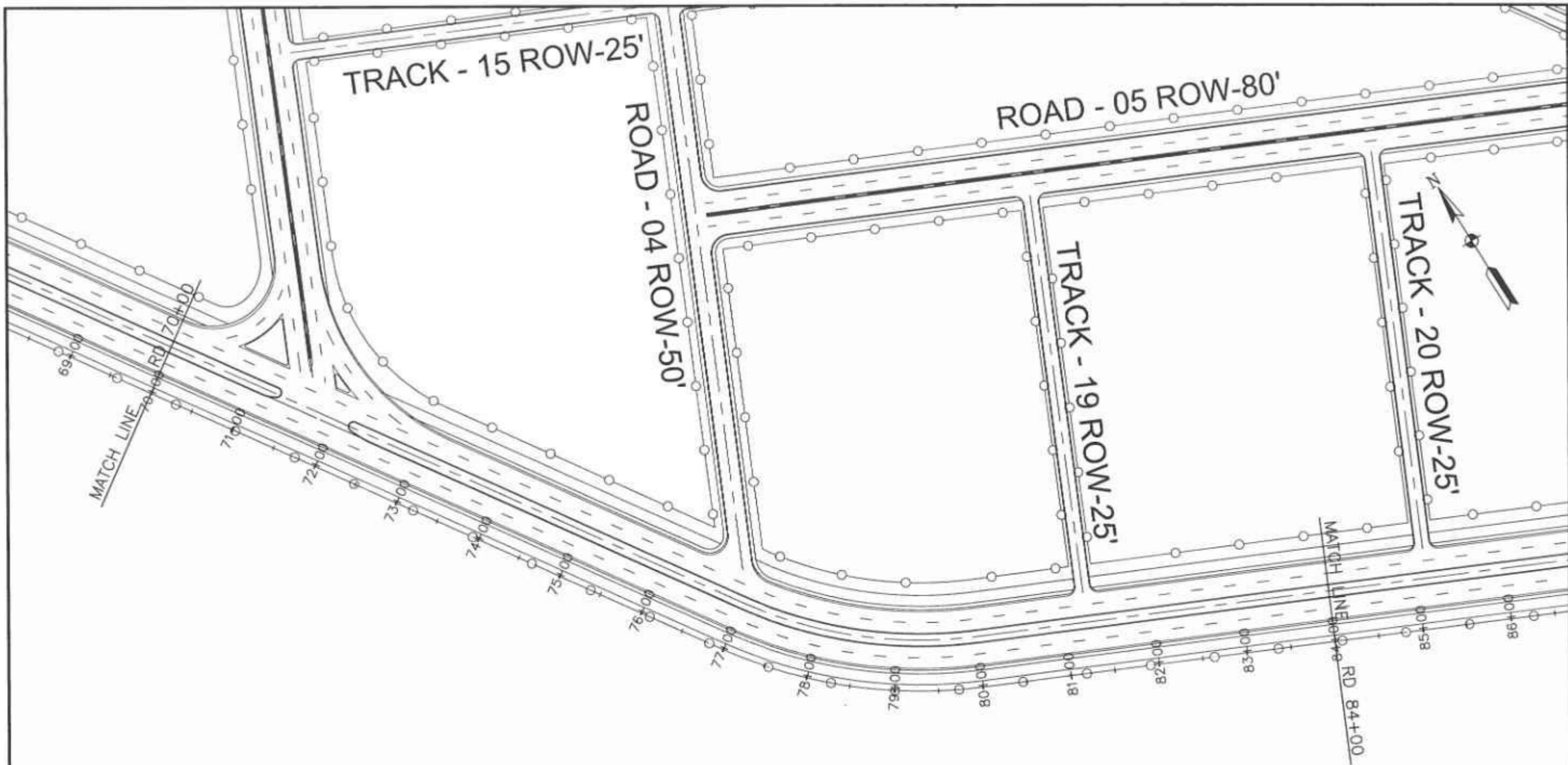
REV. 0

SOHAB, B.S.T.Z.D/Design_Islamabad Technology Park_05072922_C30.dwg 18/02/2025

Boundary Wall PROFILE

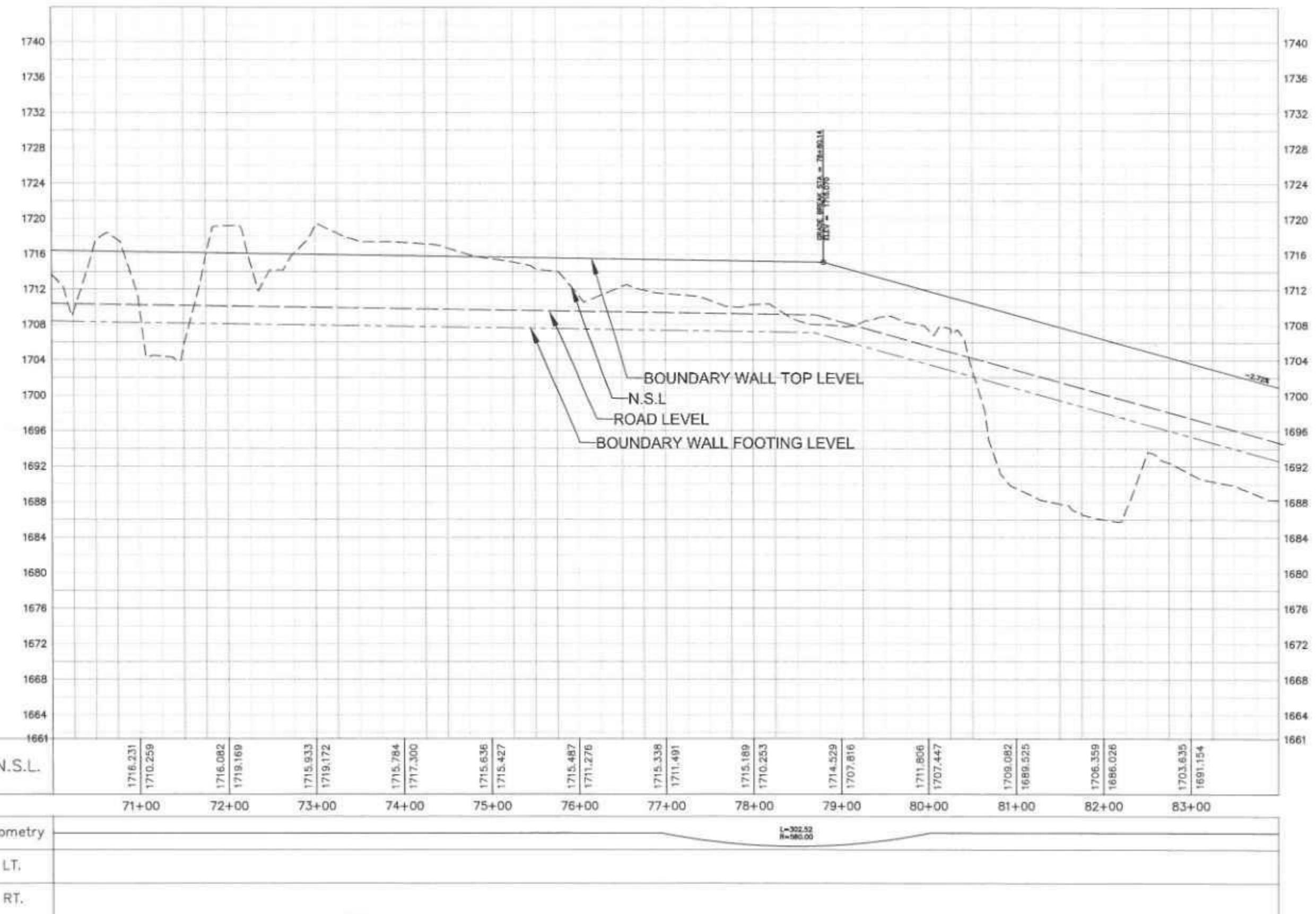


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	DRAWING				PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLEIS	DRAWING PROFILE			SCALE
			REV.	DATE	DESCRIPTION	APPROVED		REV.	DATE	DRAWING NO.	
		HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.								FEBRUARY, 2025	4384/102/C/1CD40A



CLIENT	CONSULTANT	PROJECT	BOUNDARY WALL	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	DRAWN BY: <i>[Signature]</i> SUBMITTED BY: <i>[Signature]</i> RECOMMENDED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i>	PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	PLAN FROM RD. 70+00 TO RD. 84+00
		REV. DATE DESCRIPTION APPROVED APPROVED	DATE: FEBRUARY, 2025 DRAWING No.: 4384/102/C/1C041	REV. 0

Boundary Wall PROFILE

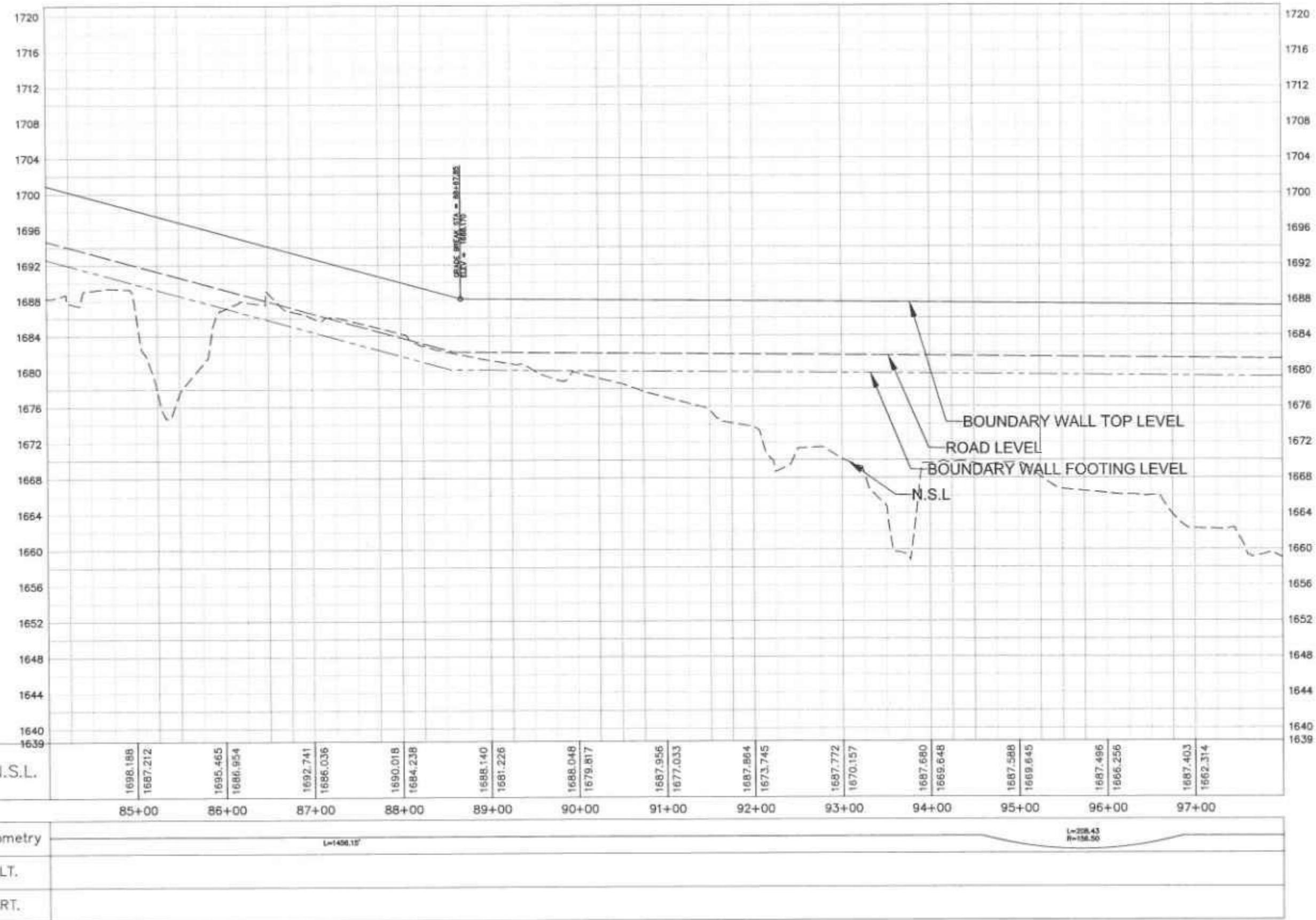


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NEESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	DRAWN		SOHAB		PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	BOUNDARY WALL PROFILE FROM RD. 70+00 TO RD. 84+00		SCALE
			REV.	DATE	DESCRIPTION	APPROVED		DATE	DRAWING No.	
		HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.						FEBRUARY, 2025	4384/102/C/1C041A	

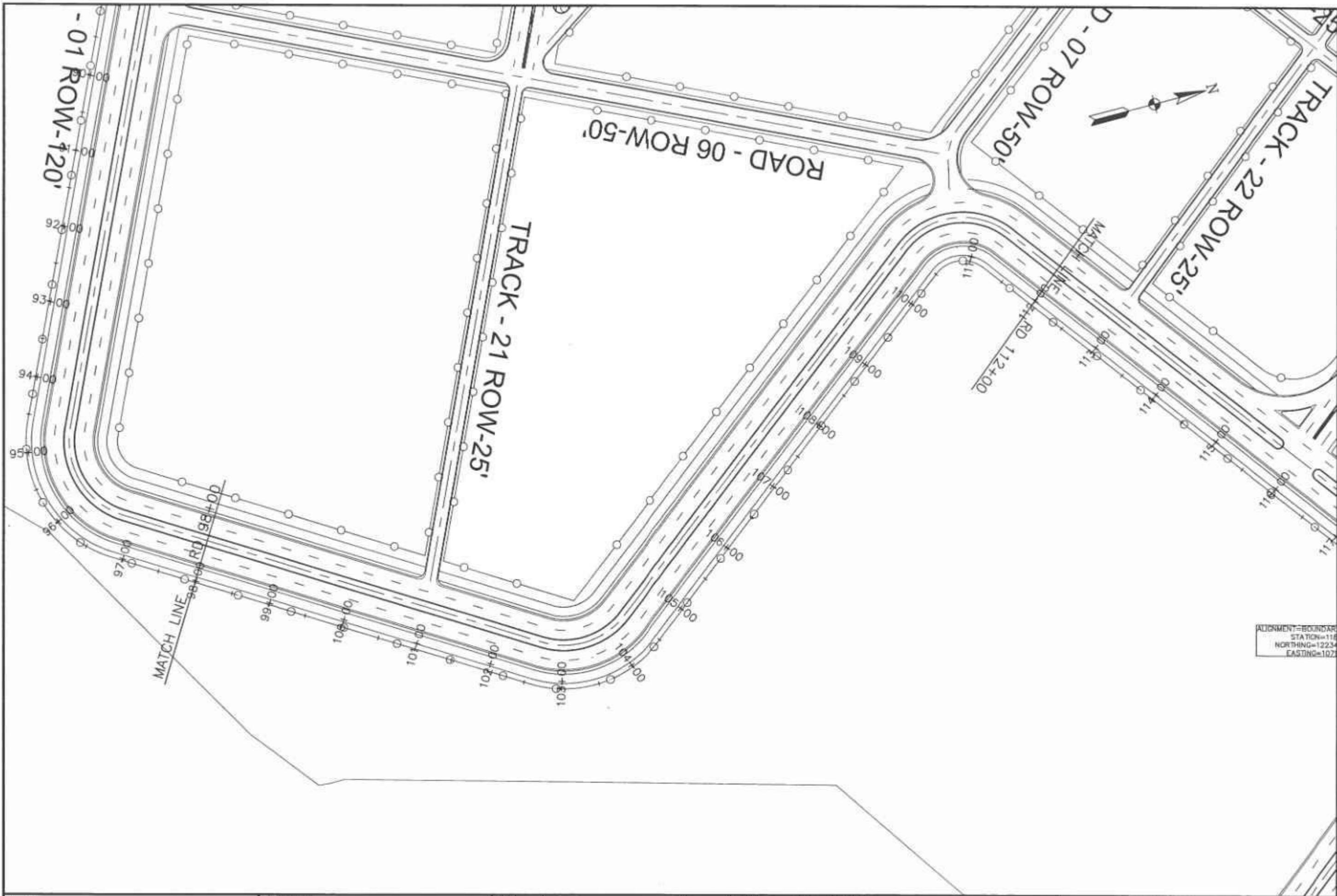


CLIENT	CONSULTANT	PROJECT	BOUNDARY WALL	SCALE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NEE PAN NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE - NESPAK HOUSE, I.C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	RD 84+00 RD 98+00 DRAWN BY: <i>[Signature]</i> SUBMITTED RECOMMENDED CHQ'D BY: <i>[Signature]</i> APPROVED APPROVED	INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS FROM RD. 84+00 TO RD. 98+00	
			DATE: FEBRUARY 2025 DRAWING No: 4384/102/C/1C042 REV: 0	

Boundary Wall PROFILE

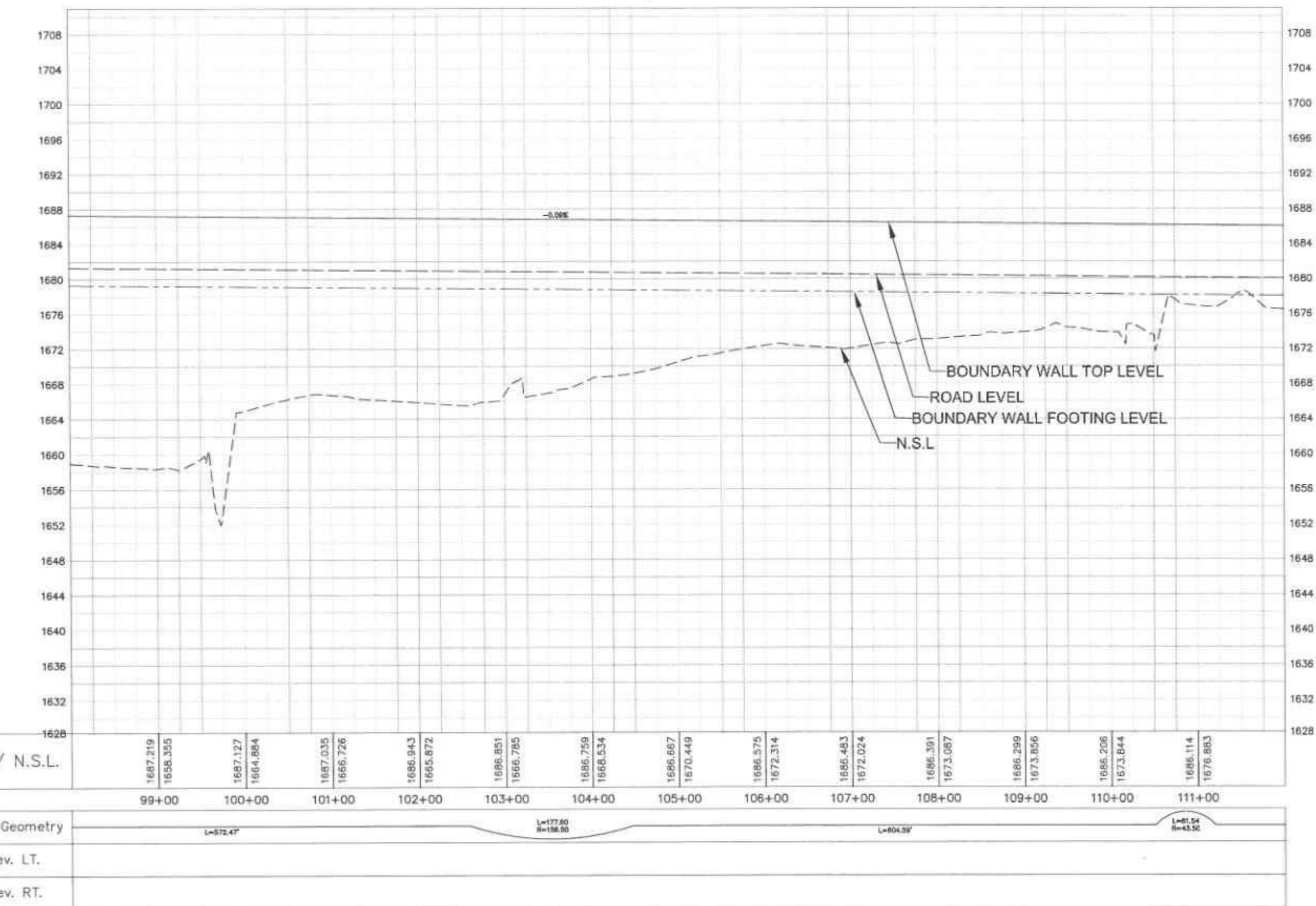


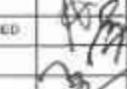
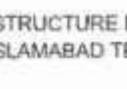
CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	DRAWN		SOHAB 	PROJECT: INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	SCALE:	
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED	DATE
								FEBRUARY 2025
								4384/102/C/1C042A



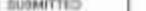
CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT NET PAN NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	PROJECT: INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS						BOUNDARY WALL PLAN FROM RD. 98+00 TO RD. 112+00		SCALE REV.	
			04	05	06	DRAWN SUBMITTED	SOHAB RECOMMENDED	CHO/VIR.	APPROVED	APPROVED	DATE FEBRUARY, 2025	DRAWING No. 4384/102/C/1C043
			REV.	DATE	DESCRIPTION							

Boundary Wall PROFILE

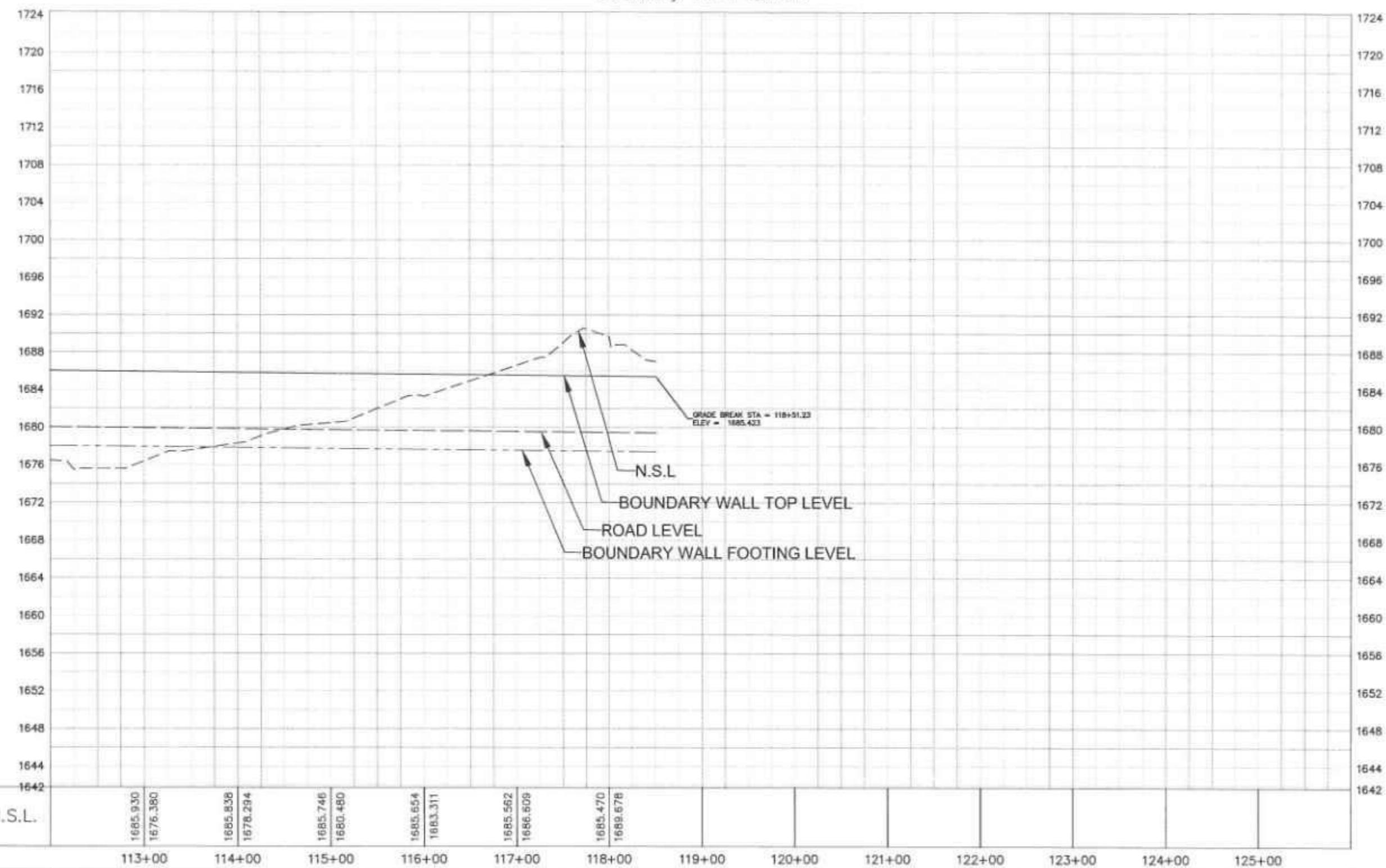


CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE:- NESPAK HOUSE, HC, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	DRAWN		SUBMITTED 	RECOMMENDED 	C.O.D./VER 	PROJECT: INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	SCALE		
			04	03					DATE	DRAWING No.	REV.
			02	01					FEBRUARY, 2029	4384/102/C/1C043A	0
			REV.	DATE	DESCRIPTION	APPROVED	APPROVED		SOHAB, 016120Design_Islamabad Technology Park_08072023_C3D.dwg 19032029		



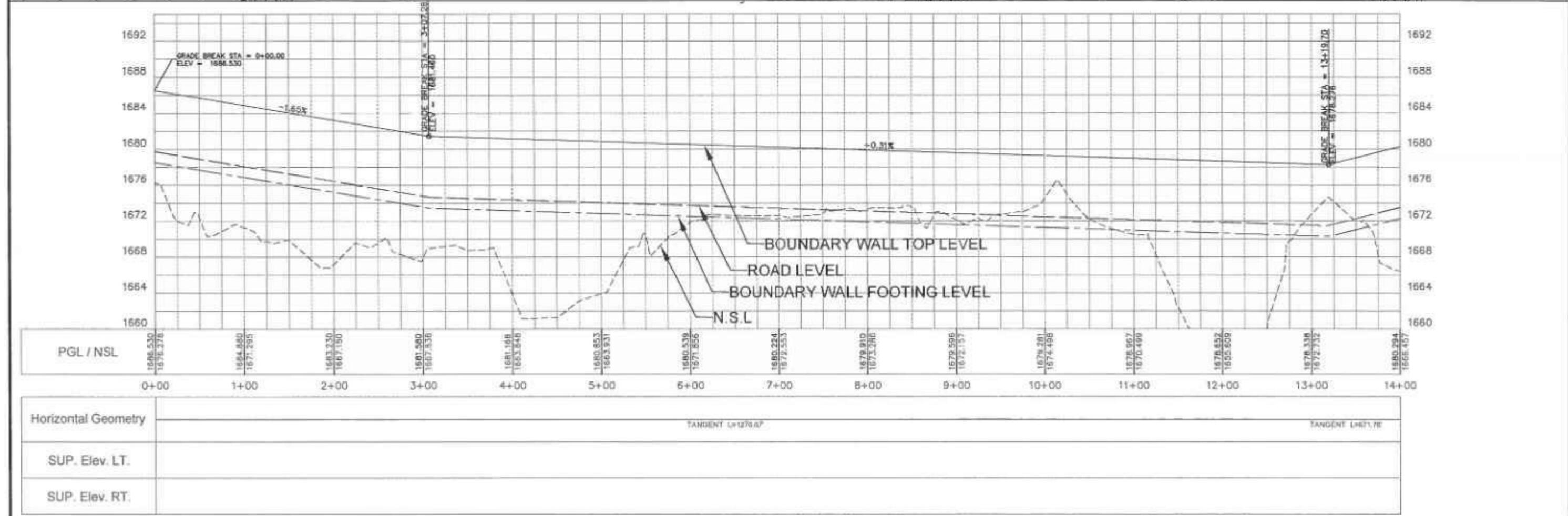
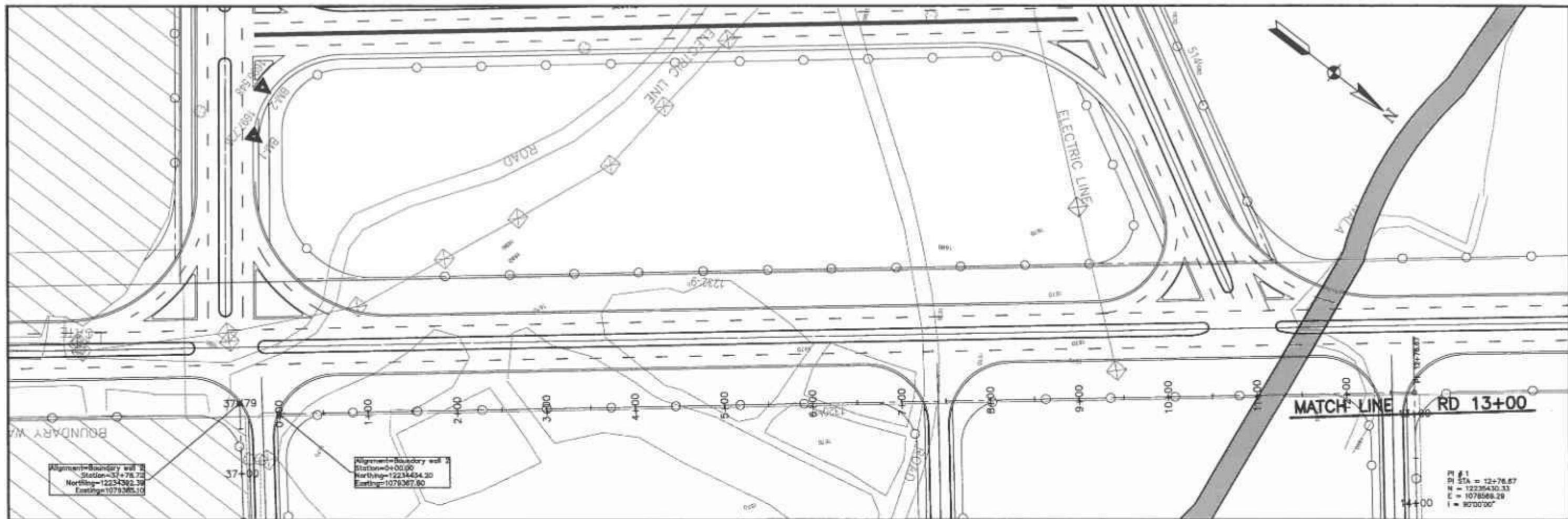
CLIENT  SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	94			DRAWN	SIGNATURE	PROJECT: INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLE	BOUNDARY WALL PLAN FROM RD. 112+00 TO RD. 118+51.23		SCALE REV. 0
		95			SUBMITTED					
		92			RECOMMENDED					
		81			CH-CH-VER.					
		REV.	DATE	DESCRIPTION	APPROVED	APPROVED		DATE	DRAWING No.	
								FEBRUARY, 2025	4384/102/C/1C044	

Boundary Wall PROFILE

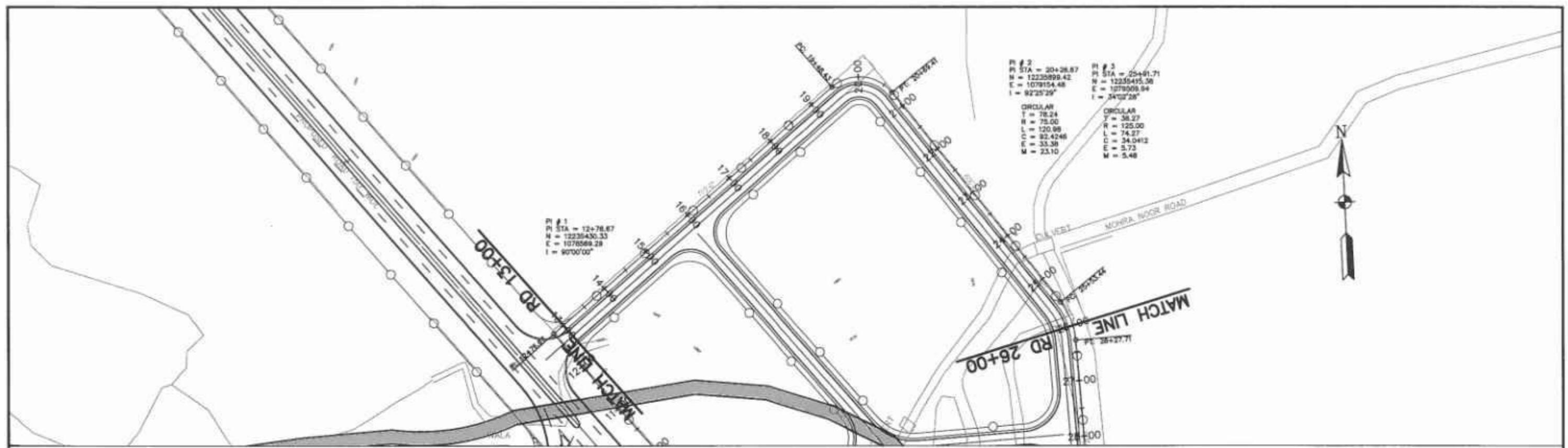


Horizontal Geometry	L=731.85																	
Sup. Elev. LT.																		
Sup. Elev. RT.																		

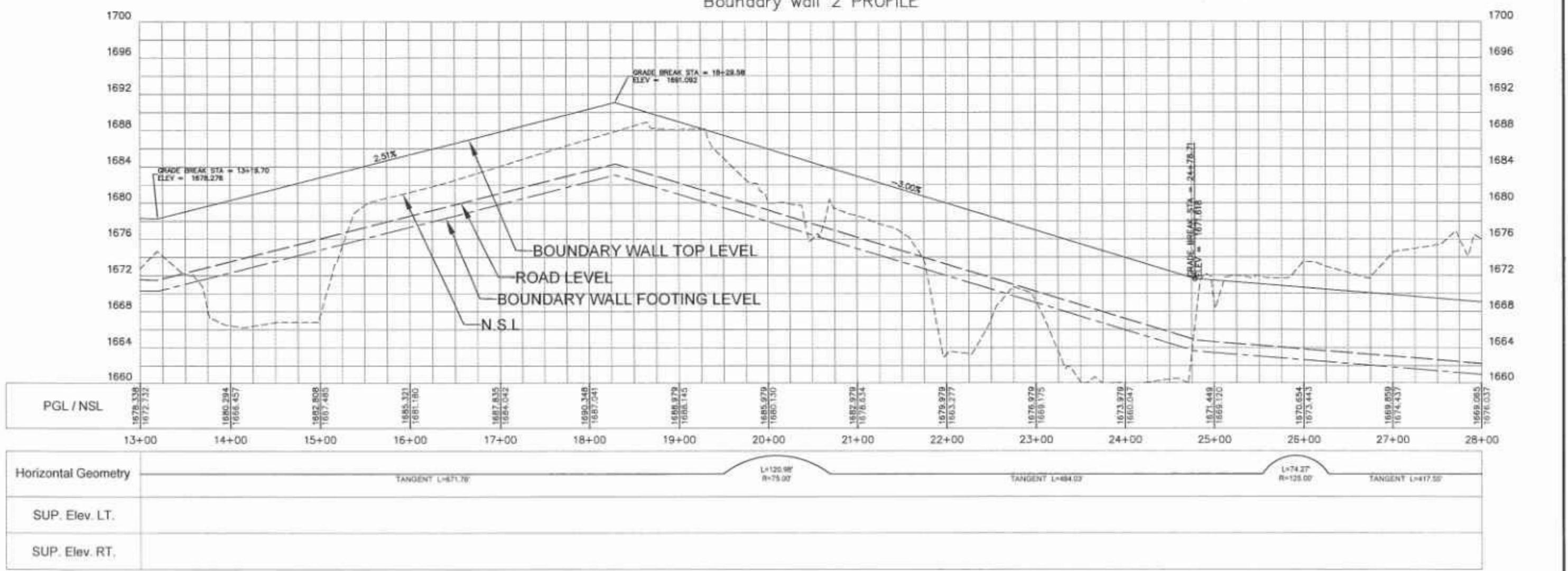
CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	DRAWN SUBMITTED RECOMMENDED CHOOVER	SCHWB DRAFT RECOMMENDED DRAFT	PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	SCALE	
						DATE FEBRUARY, 2025	DRAWING No. 4384/102/C/1C044A



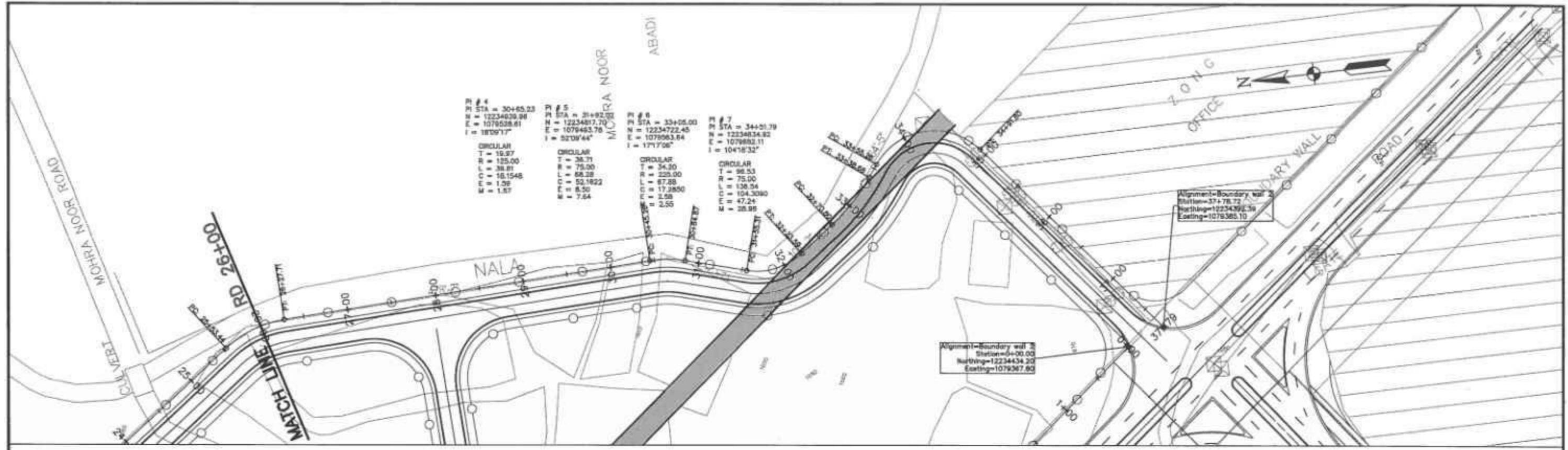
CLIENT 	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT  NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	04 03 02 01	DRAWN SUBMITTED RECOMMENDED CHOSEN	REVIEWED APPROVED	PROJECT INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	BOUNDARY WALL-2 PLAN AND PROFILE FROM RD. 0+00 TO RD. 13+00	SCALE
			REV. DATE	DESCRIPTION	APPROVED	APPROVED	DATE FEBRUARY, 2025	DRAWING No 4384/102/C/1C045 REV. 0



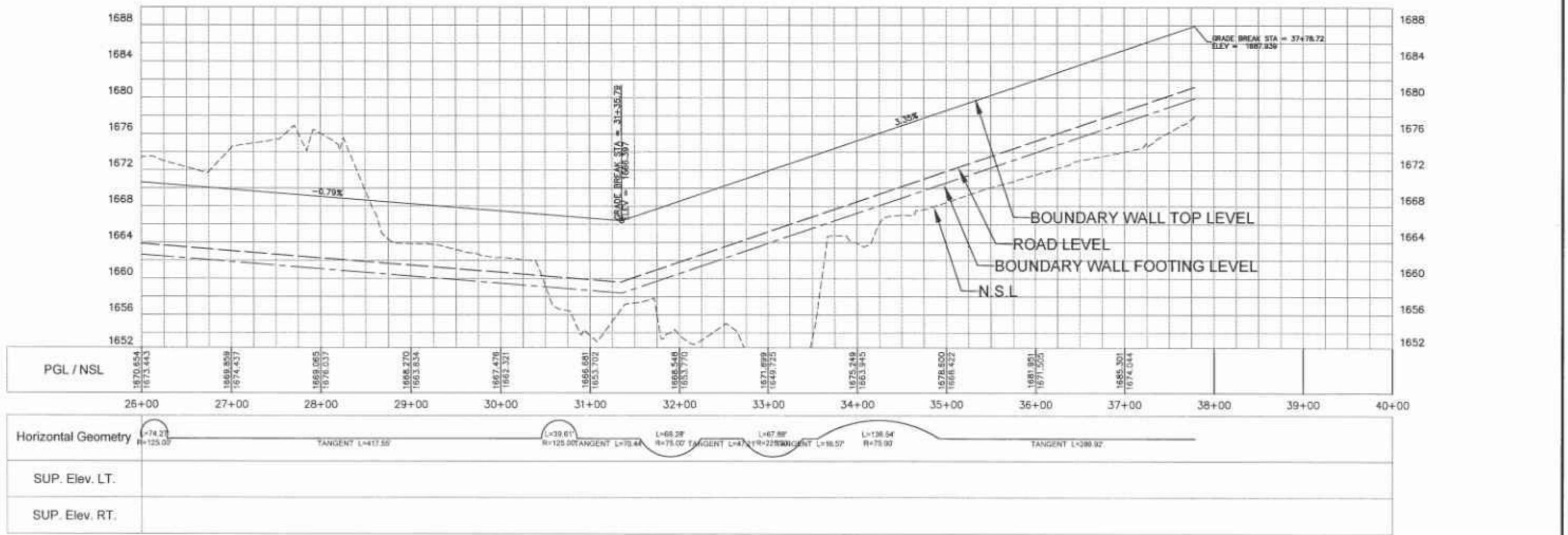
Boundary wall 2 PROFILE



CLIENT	CONSULTANT	PROJECT	SCALE		
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	DRAWN SUBMITTED RECOMMENDED CHECKED APPROVED APPROVED	INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	BOUNDARY WALL-2 PLAN AND PROFILE FROM RD. 13+00 TO RD. 26+00	REV.
				DATE: FEBRUARY, 2005 DRAWING NO: 4384/102/C/1C046	



Boundary wall 2 PROFILE



CLIENT	CONSULTANT	PROJECT	SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	INFRASTRUCTURE DEVELOPMENT OF ISLAMABAD TECHNOPOLIS	1:50000
		BOUNDARY WALL-2: PLAN AND PROFILE FROM RD. 26+00 TO RD. 37+78.72	
		DATE: FEBRUARY 2025 DRAWING No: 4384/102/C/10047	REV: 0

STRUCTURAL DRAWINGS

GENERAL NOTES

1- GENERAL

- 1- READ ALL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING-SEWERAGE, MECHANICAL, ELECTRICAL AND ANY OTHER RELEVANT DRAWINGS.
- 2- NOTES GIVEN IN THIS DRAWING ARE APPLICABLE TO ALL DRAWINGS UNLESS MENTIONED OTHERWISE. NOTES WRITTEN ON A DRAWING, SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS-REFERRED.
- 3- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS IN ABSENCE OF ANY SPECIFICATIONS, ALL MATERIALS, TESTS AND WORKMANSHIP SHALL CONFORM TO RELEVANT ASTM, ACI/ASCE CODES AND SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- 4- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURES DURING CONSTRUCTION. HE SHALL ALSO VERIFY ALL DIMENSIONS AND LEVELS BEFORE EXECUTION OF WORK, ANY DISCREPANCY, ERROR OR OMISSION, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR CORRECTION AND APPROVAL.
- 5- THE CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND VARIOUS SERVICES DRAWINGS FOR SIZES AND LOCATION OF ALL STRUCTURAL MEMBERS, FLOORS, WALLS, OPENINGS, FLOOR FINISHES, PIPES ETC.
- 6- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF DEWATERING SYSTEM WHERE SO REQUIRED DURING CONSTRUCTION. HE SHALL SUBMIT HIS METHODOLOGY FOR APPROVAL OF ENGINEER BEFORE ANY ACTIVITY.
- 7- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND BAR BINDING SCHEDULES, 21 DAYS IN ADVANCE FOR APPROVAL, TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 8- TERMITE CONTROL TREATMENT SHALL BE CARRIED OUT AS PER SPECIFICATIONS.
- 9- ALL LEVELS AND DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
- 10- DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS GIVEN ON THE DRAWING SHALL GOVERN.
- 11- ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE ACI/ASCE/BRITISH SPECIFICATIONS.
- 12- BACKFILLING AROUND FOUNDATION SHOULD BE DONE SIMULTANEOUSLY ON BOTH SIDES TO AVOID ANY LATERAL DISPLACEMENT. BACKFILLING UNDER FLOORS AND AROUND FOUNDATIONS SHALL BE DONE IN LAYERS NOT EXCEEDING 6 INCH IN THICKNESS AND COMPAKTED UPTO 90% MODIFIED PROCTOR DENSITY.

2- EXCAVATION

- 1- EXCAVATION SHALL BE MADE TO THE LINES AND LEVELS SHOWN ON THE DRAWINGS. THE ENGINEER MAY CHANGE THE EXTENT OR THE LEVELS OF EXCAVATION DURING THE PROGRESS OF WORKS.
- 2- THE CONTRACTOR MAY USE STABLE SLOPES OTHER THAN THOSE SHOWN ON THE DRAWINGS WITH THE PRIOR APPROVAL OF THE ENGINEER.
- 3- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE EXCAVATED AREA AND SHALL KEEP THE AREA IN A SOUND AND DRY CONDITION.
- 4- THE TERMITE CONTROL TREATMENT SHALL BE APPLIED AFTER EXCAVATION OF FOUNDATIONS ON BEDS AND TIRE SLOPES BEFORE CONCRETING OPERATION.
- 5- PART OF EXCAVATED MATERIAL, AS DIRECTED BY THE ENGINEER, SHALL BE PLACED IN STOCK PILES FOR BACKFILLING. ALL OTHER MATERIAL SHALL BE DISPOSED OF IN APPROVED DISPOSAL AREA AS DIRECTED BY THE ENGINEER.
- 6- ANY OVER EXCAVATED AREAS OR DOUBTFUL PATCHES, AS DIRECTED BY THE ENGINEER, SHALL BE FILLED WITH LEAN CONCRETE.

3- FOUNDATIONS

- 1- FOUNDATION HAS BEEN DESIGNED ON NET ALLOWABLE BEARING CAPACITY AS PROVIDED IN GEOTECHNICAL RECOMMENDATION REPORT.
- 2- ALL FOUNDATIONS SHALL BE PLACED ON COMPETENT BEARING STRATA. IF ACCEPTABLE BEARING STRATA IS NOT FOUND AT INDICATED DEPTHS OF FOUNDATION, THE ENGINEER SHALL BE NOTIFIED IN WRITING FOR HIS INSTRUCTIONS.
- 3- THE EXCAVATED BED OF FOUNDATION SHOULD BE THOROUGHLY COMPAKTED PRIOR TO LAYING BUNDING CONCRETE IN FOUNDATION. ANY LOOSE, WET, SOFT SOIL PATCH SHOULD BE REPLACED WITH WELL-COMPAKTED SELECTED GRANULAR FILL COMPACTED TO 25% MODIFIED ASH TO DENSITY.
- 4- THE FOUNDATION BED SOIL SHOULD BE PROTECTED FROM INGRESS OF WATER FROM ANY SOURCE BY PROVIDING ADEQUATE SURFACE DRAINAGE SYSTEM AND ENSURING LEAK-PROOF JOINTING OF SEWERAGE AND WATER SUPPLY LINES. EXCESSIVE AND UNCONTROLLED WATERING FOR CURING AND COMPAKTION OF BACKFILL MATERIAL SHOULD BE AVOIDED.

4- REINFORCED CONCRETE

- 1- STRUCTURAL DESIGN IS BASED ON AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE, ACI 318.
- 2- ALL STRUCTURAL CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) REQUIREMENTS.
- 3- THE MINIMUM COMPRESSIVE CYLINDER STRENGTH OF LEAN/BUNDING CONCRETE SHALL BE 1500 psi AT 28 DAYS.
- 4- THE MINIMUM COMPRESSIVE CONCRETE CYLINDER STRENGTH OF STRUCTURAL CONCRETE FOR ALL STRUCTURAL MEMBERS SHALL BE 3000 psi AT 28 DAYS EXCEPT WATER-RETAINING STRUCTURE WHERE IT IS 4000 psi AT 28 DAYS.
- 5- NO CONCRETING SHALL BE CARRIED OUT UNTIL PERMISSION IS GIVEN IN WRITING.

5- REINFORCING STEEL

- 1- ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM-A615 GRADE 60 HAVING A MINIMUM YIELD STRENGTH OF 50,000 psi.
- 2- WHEREVER POSSIBLE FULL LENGTH OF REINFORCING BARS SHALL BE USED TO AVOID UNNECESSARY LAPS AND WASTAGE.

5-1 CLEAR COVER

STRUCT ELEMENT	COVER (INCHES)
FOOTINGS	2"
BEAMS (BOTTOM)	11"
BEAMS (SIDES)	1"
COLUMNS	11"
SLABS	34"

5-2 DEVELOPMENT LENGTH IN TENSION

(a) TOP BARS											
Bar Size	DEVELOPMENT LENGTH INCH (Fy=60,000 psi)										
in	33	44	56	68	77	88	99	110	121	132	143
1090	21	29	38	43	62	71	80	90	98	107	116
3000	17	22	27	33	48	55	62	69	76	83	90
4000	18	24	30	36	48	54	60	68	74	81	88

(b) OTHER BARS

(b) OTHER BARS											
Bar Size	DEVELOPMENT LENGTH INCH (Fy=60,000 psi)										
in	33	44	56	68	77	88	99	110	121	132	143
1090	23	33	43	56	77	88	99	110	121	132	143
3000	23	28	36	46	56	61	68	76	83	90	98
4000	24	33	42	48	72	81	90	102	111	120	129

5-3 SPLICE LENGTH IN TENSION

(a) TOP BARS											
Bar Size	SPLICE LAP LENGTH INCH (Fy=60,000 psi)										
in	33	44	56	68	77	88	99	110	121	132	143
1090	23	33	43	56	77	88	99	110	121	132	143
3000	22	29	36	43	63	72	85	90	96	107	116
4000	18	24	30	36	54	63	72	78	84	90	98

(b) OTHER BARS

(b) OTHER BARS											
Bar Size	SPLICE LAP LENGTH INCH (Fy=60,000 psi)										
in	33	44	56	68	77	88	99	110	121	132	143
1090	22	29	36	43	63	72	85	90	96	107	116
3000	22	29	36	43	63	72	85	90	96	107	116
4000	18	24	30	36	54	63	72	78	84	90	98

EXCEPT AS OTHERWISE SHOWN ON THE DRAWING, WHENEVER REINFORCING BARS OF DIFFERENT SIZES ARE TO BE LAP SPLICED IN COMPRESSION, SPLICE LENGTH SHALL BE THE LARGER OF DEVELOPMENT LENGTH OF LARGER BAR, OR SPLICE LENGTH OF SMALLER BAR.

- 5- ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE AND DURING THE PLACEMENT OF CONCRETE, BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
- 6- DISTRIBUTION REINFORCEMENT NOT SHOWN SHALL BE PROVIDED AS 10@2" FOR 6 INCH THICK SLAB.

6- CONCRETE CONSTRUCTION

- 1- ALL STRUCTURAL SURFACES, AGAINST WHICH EARTH IS TO BE FILLED, SHALL BE COATED WITH A PRIMER COAT PLUS TWO COATS OF HOT BITUMEN OF 10/20 GRADE AT THE RATE OF 0.4 lbs/ft² PLUS POLYETHYLENE SHEET.
- 2- THE CONTRACTOR SHALL SUBMIT CONCRETE POURING SCHEDULE FOR ENGINEER'S APPROVAL. NO CONCRETE SHALL BE PLACED UNTIL WRITTEN PERMISSION IS GIVEN BY THE ENGINEER.
- 3- DURING CONSTRUCTION, STACKING OF CONSTRUCTION MATERIALS, BRICKS, ETC. SHOULD BE AVOIDED ON SLAB PANELS.
- 4- THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED AND FIRMLY SECURED IN PLACE.

7- CONSTRUCTION JOINTS

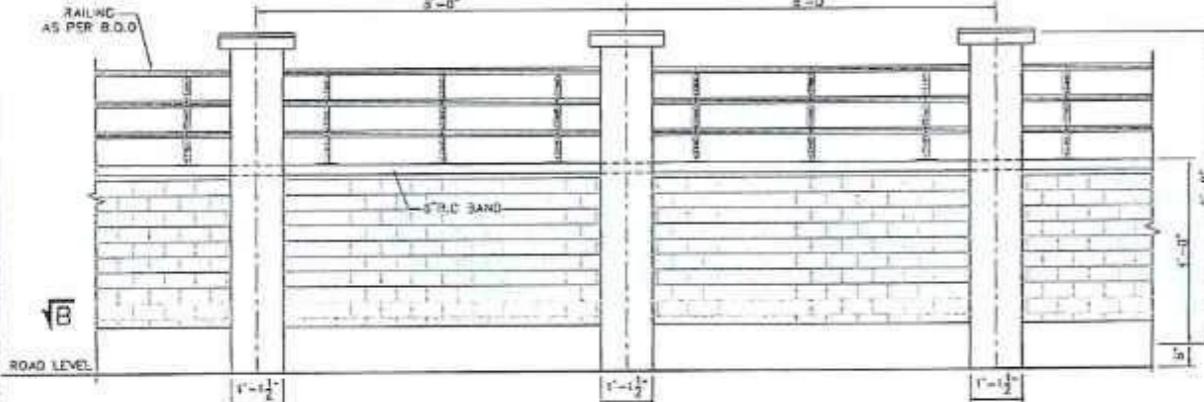
- 1- JOINTS, NOT SHOWN ON THE DRAWINGS, SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. THEY SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPANS OF SLABS, BEAMS AND JOISTS. IN WALLS AND COLUMNS SHALL BE AT THE UNDER-

8- SHORING AND BRACING

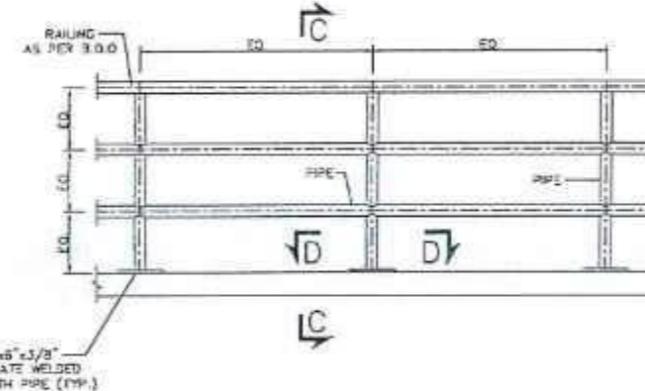
- 1- SHORE AND BRACE ALL PARTS OF THE BUILDING DURING CONSTRUCTION, TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH AND SERVICABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS, WHICH MAY OCCUR DURING CONSTRUCTION, SUCH SHORING AND BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 2- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE ADJACENT EXISTING STRUCTURES AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING EXCAVATION AND CONSTRUCTION, WHEREVER AND WHENEVER REQUIRED TO THE SATISFACTION OF THE ENGINEER.

9- BRICK WORK

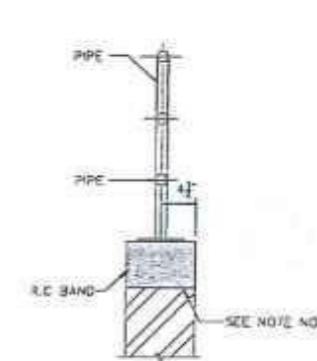
- 1- ALL BRICK WORK SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
- 2- ALL BRICKS SHALL BE SOUND, HARD, WELL BURNT AND OF UNIFORM SIZE, COLOUR AND TEXTURE. DIMENSIONAL VARIATION IN SIZES SHALL NOT EXCEED 10%.
- 3- ALL BRICK WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 1/8" IN 10'.
- 4- TESTING OF COMPRESSIVE STRENGTH OF MASONRY SHALL BE DONE IF SO DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH ASTM E114 OR PAKISTAN STANDARD-208.
- 5- THE AVERAGE COMPRESSIVE STRENGTH OF TWELVE BRICKS SHALL BE NOT LESS THAN 2200 psi AND SHALL BE NOT LESS THAN 1800 psi FOR ANY INDIVIDUAL BRICK.
- 6- BRICK SHALL BE LAID 'FROG' UPWARD WITH MORTAR JOINT IN ENGLISH AND FLEMISH BOND OR AS DIRECTED BY THE ENGINEER.
- 7- ALL BRICK WORK SHALL BE LAID IN 1:5 CEMENT SAND MORTAR FOR 2 INCH THICK WALL, AND 1:4 CEMENT SAND MORTAR FOR 4 INCH THICK WALL.



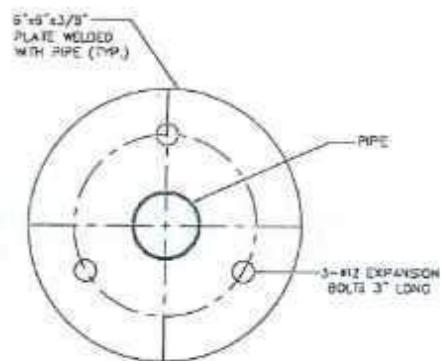
TYPE WALL ELEVATION
SCALE 1/2"=1'-0"



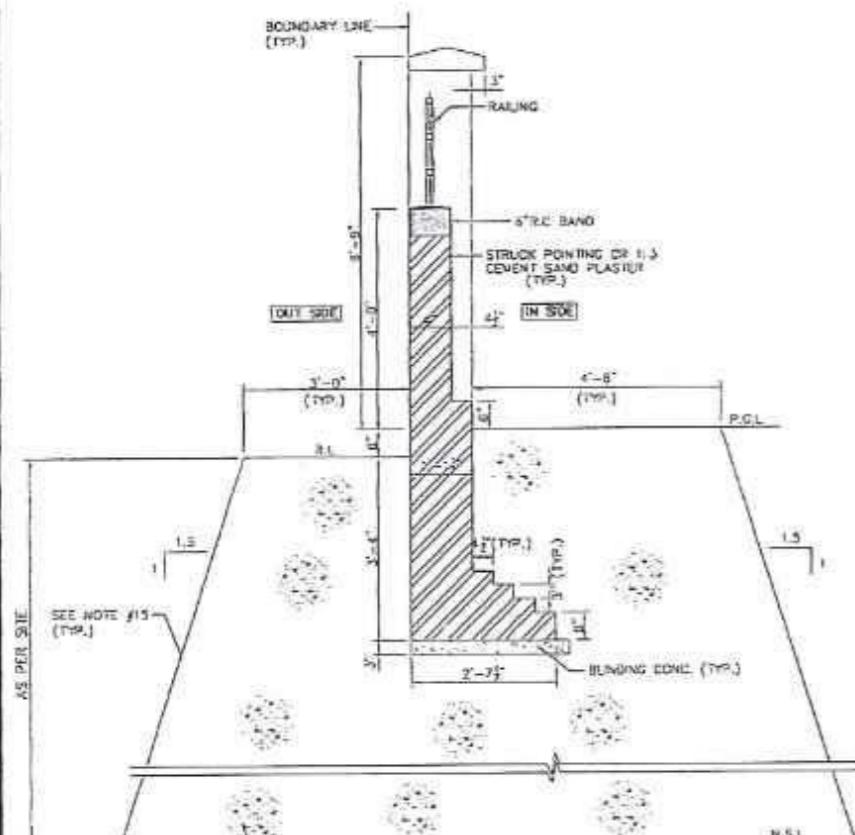
DETAIL-'A' (RAILING)
SCALE 1"=1'-0"



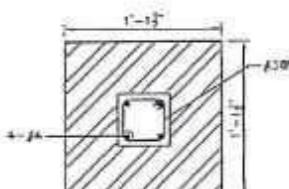
SECTION C-C
SCALE 1"=1'-0"



SECTION D-D
SCALE 6'-0"=1'-0"

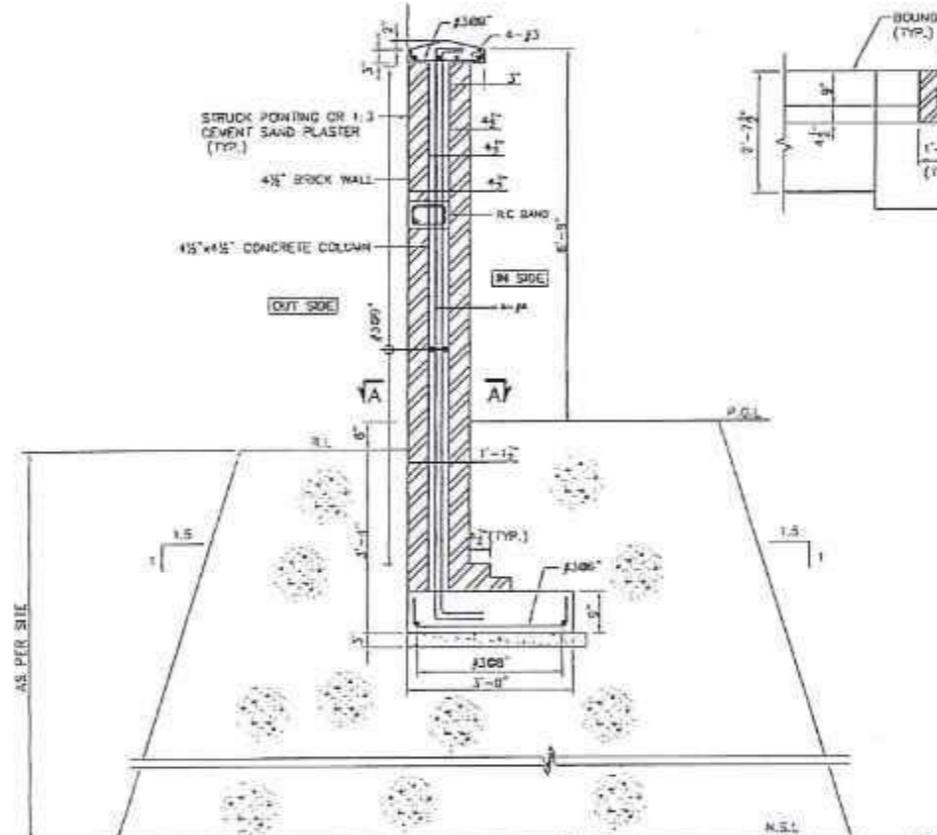


SECTION 1-1



SECTION A-A
(REINFORCEMENT)
SCALE 1"=1'-0"

R.C. BAND
SCALE 1"=1'-0"

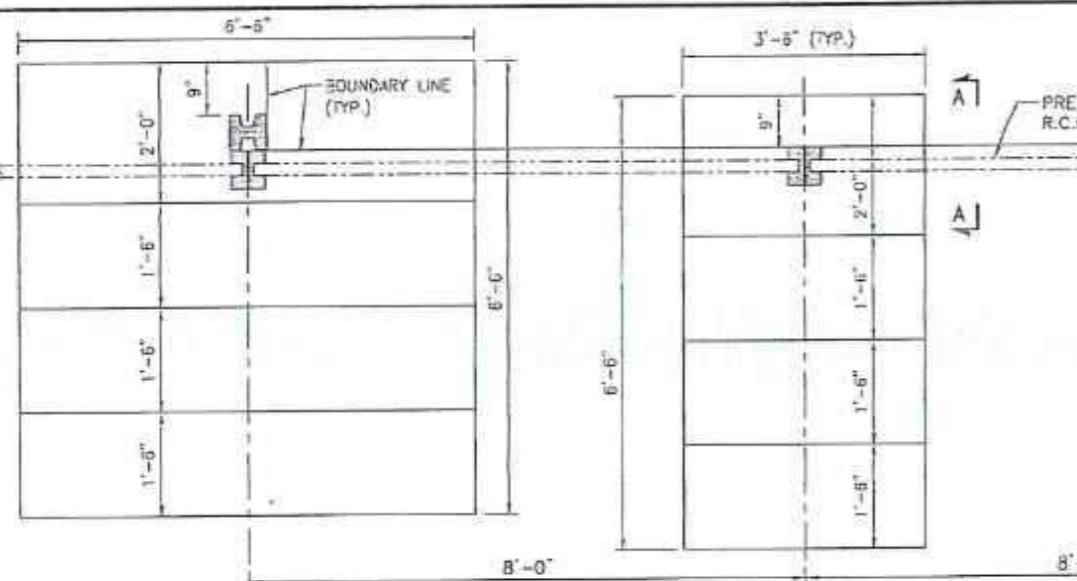


SECTION 2-2

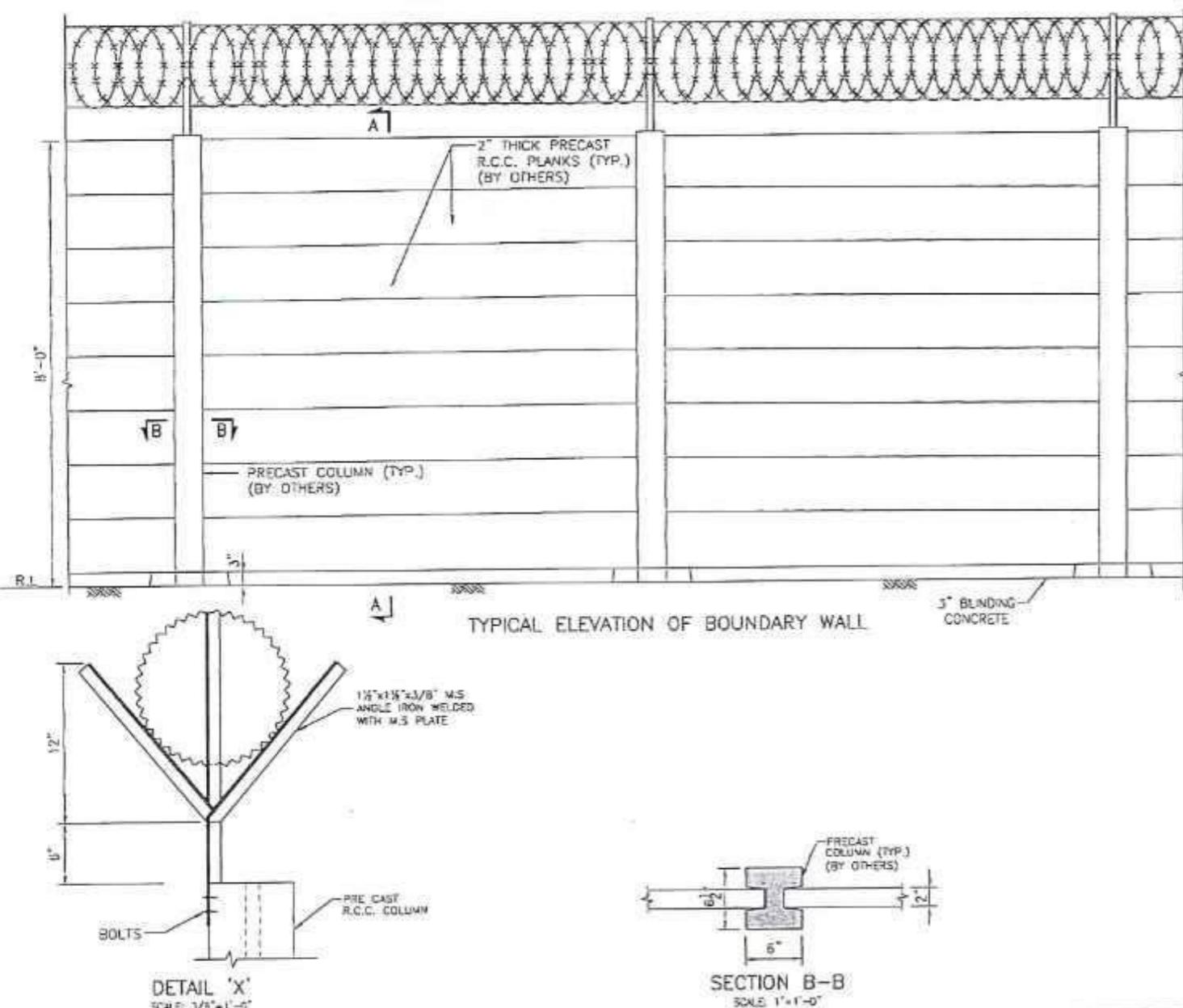
NOTES:

- ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
- FOR GENERAL NOTES REFER DRAWING NO. 4384/037/C/2001.
- BACK FILLING AROUND FOUNDATIONS & WALLS SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES. IN ORDER TO AVOID ANY LATERAL DISPLACEMENT, BACK FILLING UNDER FLOORS AND AROUND FOUNDATIONS SHALL BE DONE IN LAYERS NOT EXCEEDING 6' H.
- THE AREA AROUND THE WALL SHALL BE PROPERLY DRAINED DURING AND AFTER CONSTRUCTION OF THE BOUNDARY WALL. AND PROPER DRAINAGE SYSTEM SHALL BE ADOPTED.
- MORTAR USED IN MASONRY CONSTRUCTION (1:3) SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 1800 Psi AND SHALL CONFORM TO ASTM C270. COMPRESSIVE STRENGTH OF MASONRY AT 28 DAYS SHALL NOT BE LESS THAN 1150 Psi.
- EXPANSION JOINT IN BOUNDARY WALLS SHALL BE FURNISHED AFTER 96'-0" (EVERY 12 PANELS) INTERVAL IN STRAIGHT WALL.
- THE ON-SITE SOIL AT THE FOUNDATION BASE SHOULD BE PROOF ROLLED (ANY SOFT/LOOSE POCKETS AT THE EXCAVATION BASE LEVEL SHOULD ALSO BE EXCAVATED AND REPLACED WITH SELECT FILL MATERIAL). IN ADDITION, FOUNDATION TRENCHES/ PITS MUST BE PROTECTED FROM INGRESS OF WATER DURING FOUNDATION CONSTRUCTION.
- THE FOUNDATION EXCAVATION MUST BE INSPECTED BY AN EXPERIENCED GEO-TECHNICAL ENGINEER PRIOR TO POURING OF LEAN CONCRETE. FOR ANY UNUSUAL SUB-SURFACE CONDITIONS, GEO-TECHNICAL ENGINEER MUST BE CONSULTED PRIOR TO INITIATION OF THE FOUNDATION CONSTRUCTION.
- THE FOUNDATIONS HAVE BEEN DESIGNED ON THE BASES OF GEO-TECHNICAL RECOMMENDATIONS AS PROVIDED IN GEO-TECHNICAL RECOMMENDATIONS.
- TYPE II OR ORDINARY PORTLAND CEMENT (OPC) WITH LOW ALKALI CONTENT SHALL BE USED AS PER GEO-TECHNICAL RECOMMENDATION.
- SEEPAGE WATER PRESENT AT SHALLOW DEPTH AND MAY ENCOUNTER DURING EXCAVATION THEREFORE, Dewatering measure shall be taken before EXCAVATION OF FOUNDATION.
- FILLING MUST BE CARRIED OUT IN 6" THICK LAYERS USING X-40 OR BETTER MATERIAL AS PER AASHTO CLASSIFICATION. MINIMUM COMPACTION FOR MATERIAL UP TO 12' IN THICK FOUNDATION BASE SHALL BE AT LEAST 95% OF MODIFIED PROCTOR DENSITY. HOWEVER, REMAINING FILL MATERIAL MUST BE COMPACTED AT LEAST 90% OF MODIFIED PROCTOR DENSITY.
- SLOPE PROTECTION, IF REQUIRED, SHALL BE AS PER RELEVANT SPECIALTY DRAWINGS.
- FOR EARTHEN DRAIN, ITS STEEL PROFILE ETC. SHALL BE AS PER RELEVANT HYDRAULIC DRAWINGS.
- FOR SHORT TERM STABILITY, CLAY CAPPING ALONG WITH VEGETATION SHOULD BE CONSIDERED TO PROTECT THE SIDE SLOPES FROM EROSION.

CLIENT	CONSULTANT	PROJECT	TYPICAL BOUNDARY WALL (TYPE-C) PLAN & SECTIONS CONCRETE OUTLINE & REINFORCEMENT	SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. HEAD OFFICE: NESPAK HOUSE, I-C, BLOCK-H, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLIS	1/8"=1'-0"	
REV.	DATE	DESCRIPTION	DATE	DRAWING NO.
			JUNE, 2024	4384/037/C/1G01
				REV.

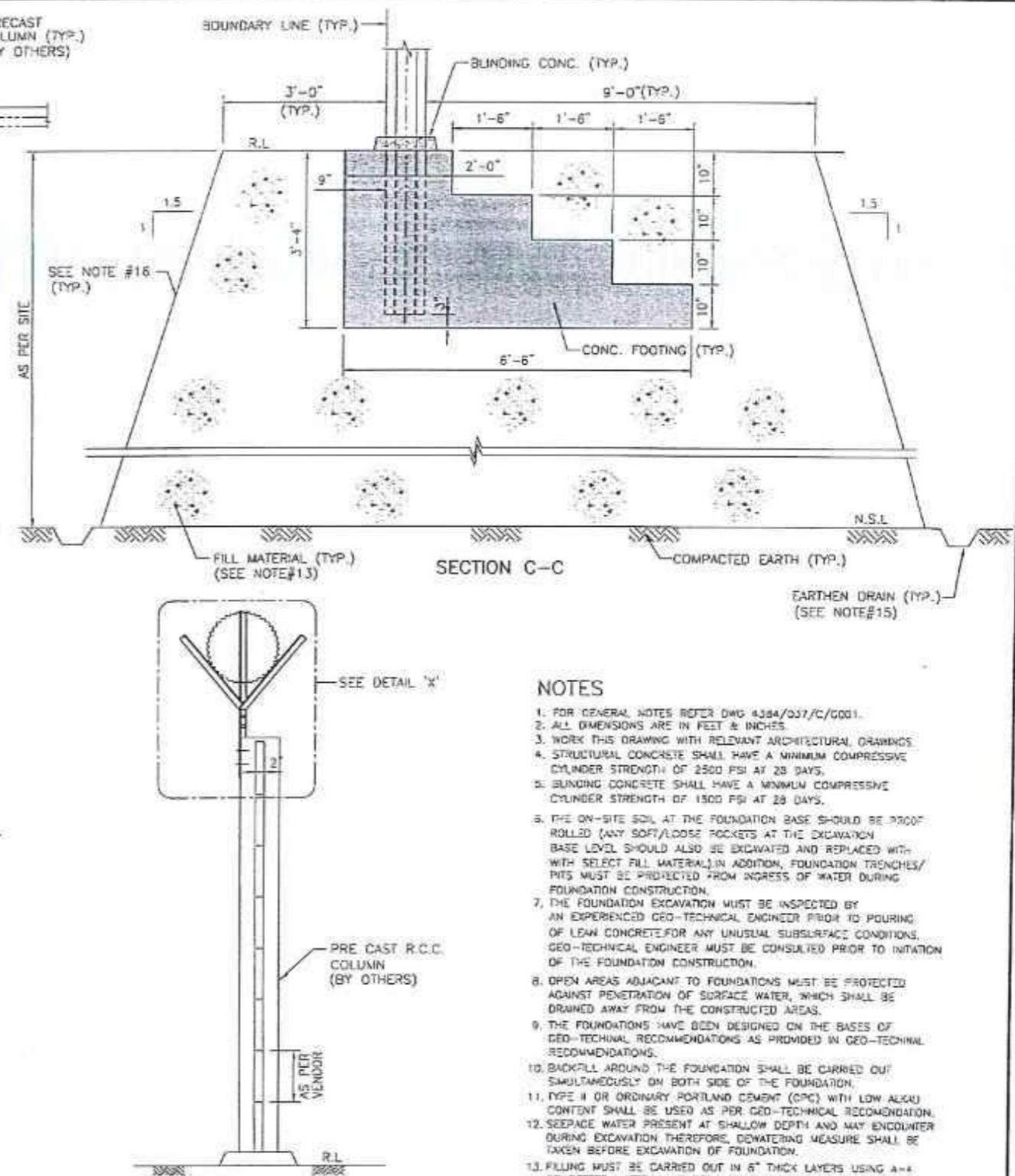


FOUNDATION PLAN OF BOUNDARY WALL



TYPICAL ELEVATION OF BOUNDARY WALL

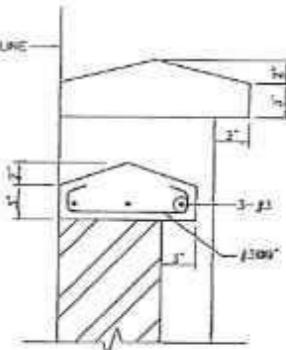
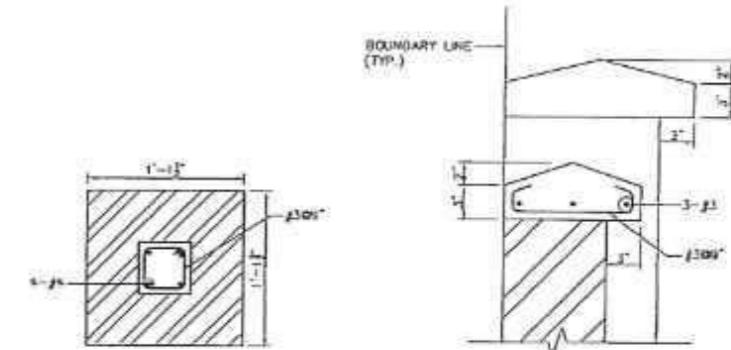
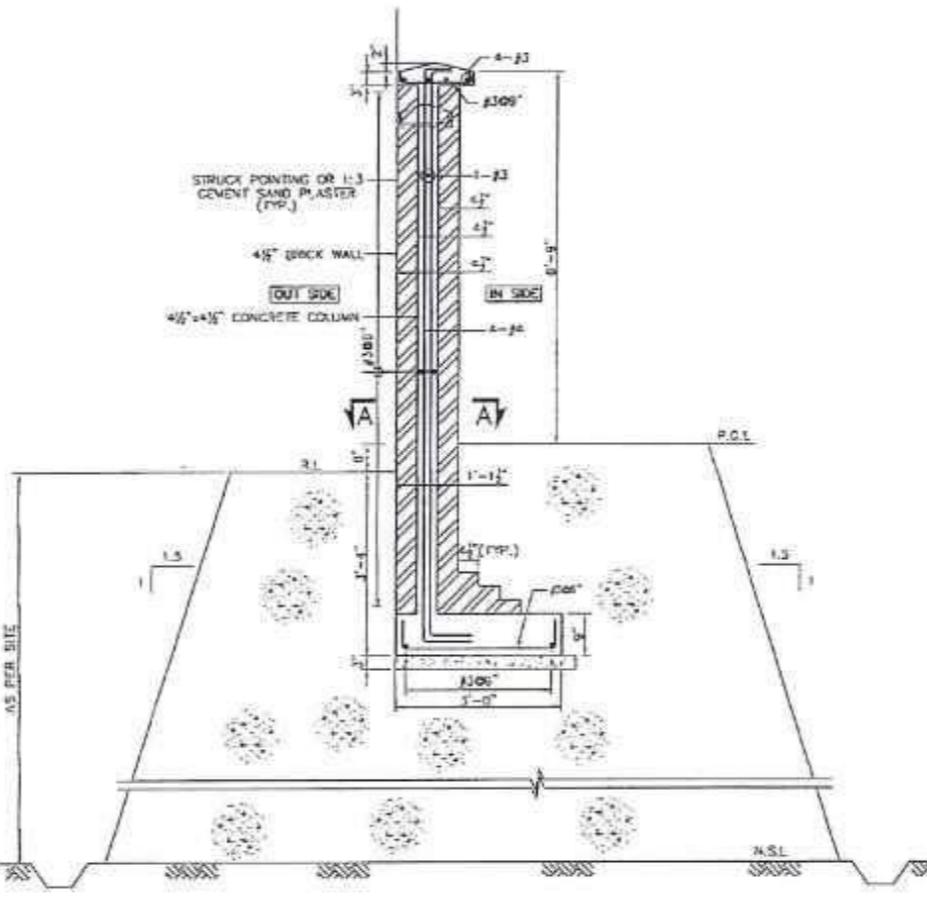
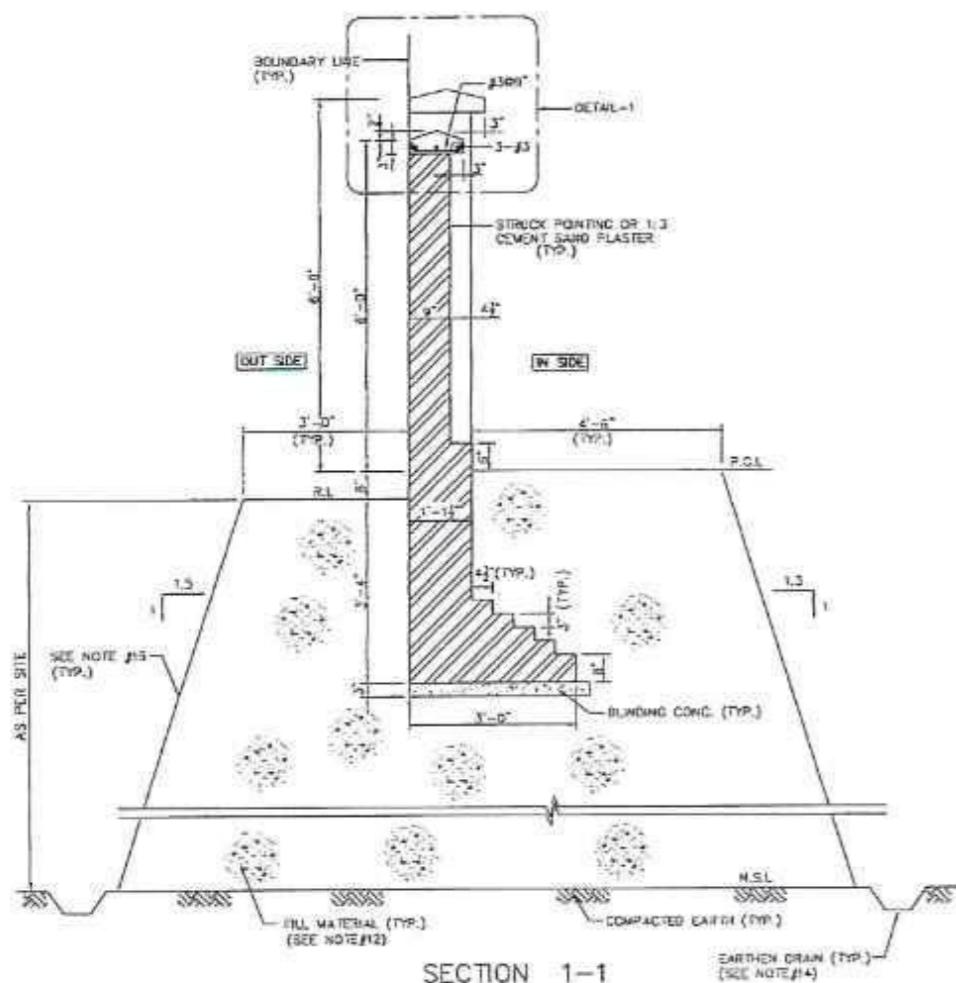
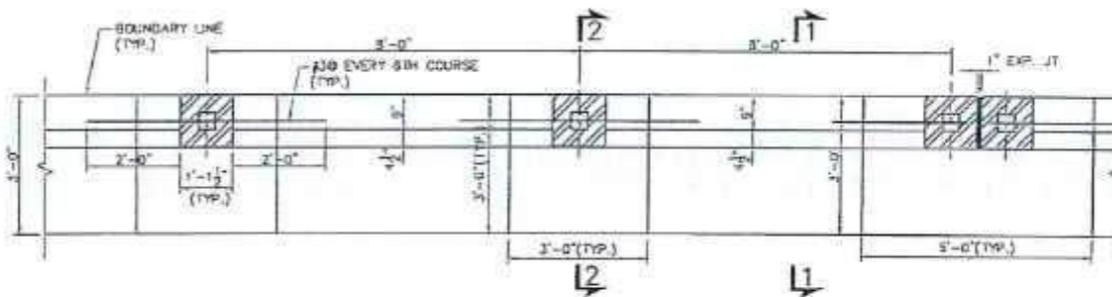
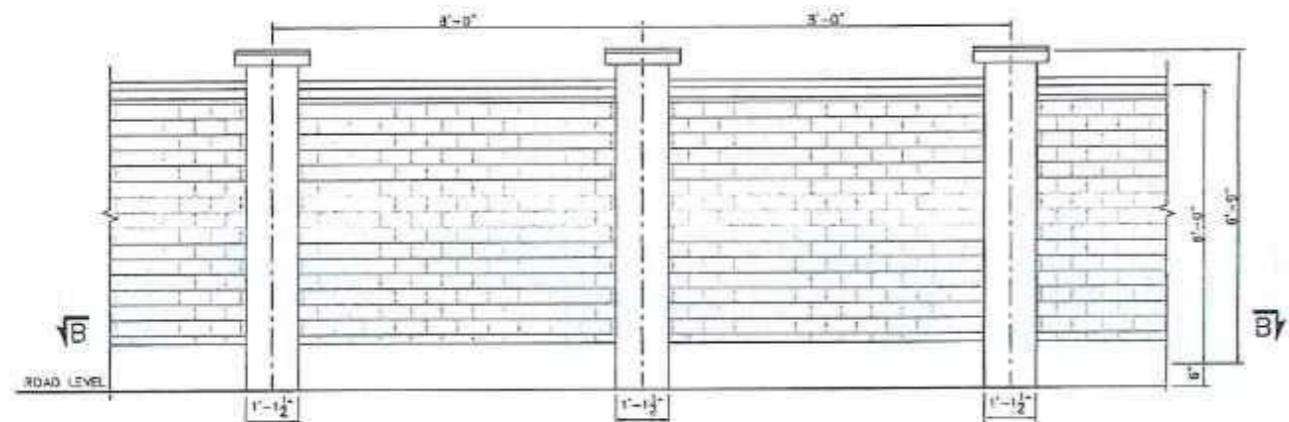
SECTION B-B



SECTION A-A

NOTES

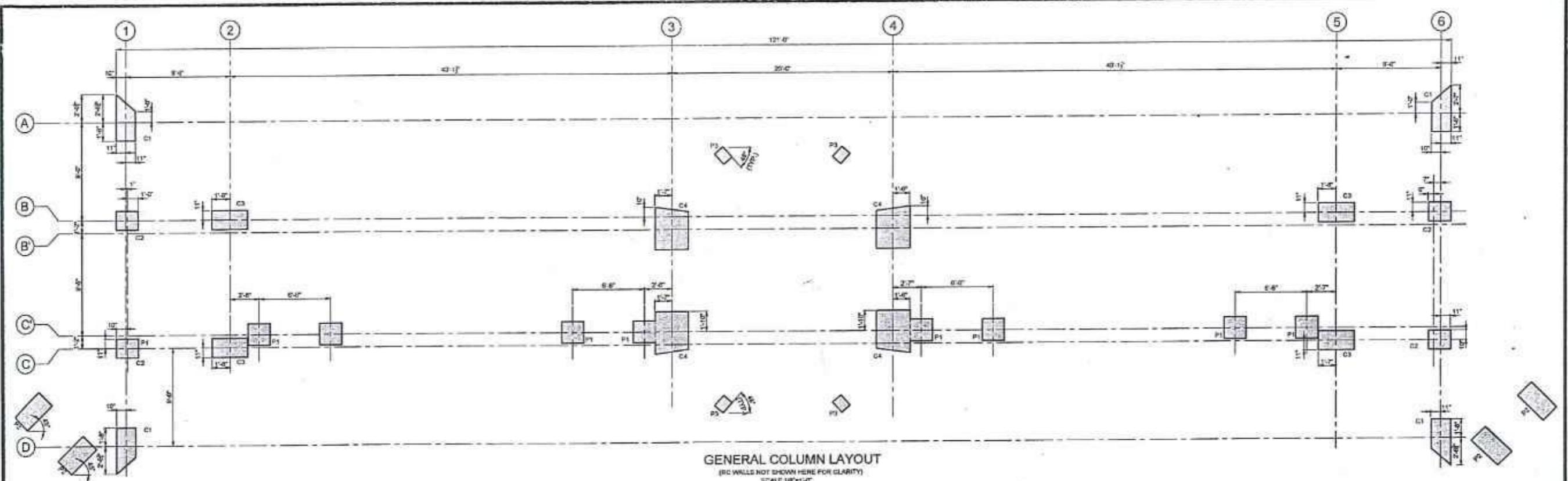
1. FOR GENERAL NOTES REFER DWG 4384/037/C/0001.
2. ALL DIMENSIONS ARE IN FEET & INCHES.
3. WORK THIS DRAWING WITH RELEVANT ARCHITECTURAL DRAWINGS.
4. STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 2500 PSI AT 28 DAYS.
5. BUNDING CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 1500 PSI AT 28 DAYS.
6. THE ON-SITE SOIL AT THE FOUNDATION BASE SHOULD BE PROOF ROLLED (ANY SOFT/LOOSE POCKETS AT THE EXCAVATION BASE LEVEL SHOULD ALSO BE EXCAVATED AND REPLACED WITH SELECT FILL MATERIAL). IN ADDITION, FOUNDATION TRENCHES/ PITS MUST BE PROTECTED FROM INGRESS OF WATER DURING FOUNDATION CONSTRUCTION.
7. THE FOUNDATION EXCAVATION MUST BE INSPECTED BY AN EXPERIENCED GEO-TECHNICAL ENGINEER PRIOR TO POURING OF LEAN CONCRETE FOR ANY UNUSUAL SUBSURFACE CONDITIONS. GEO-TECHNICAL ENGINEER MUST BE CONSULTED PRIOR TO INITIATION OF THE FOUNDATION CONSTRUCTION.
8. OPEN AREAS ADJACENT TO FOUNDATIONS MUST BE PROTECTED AGAINST PENETRATION OF SURFACE WATER, WHICH SHALL BE DRAINED AWAY FROM THE CONSTRUCTED AREAS.
9. THE FOUNDATIONS HAVE BEEN DESIGNED ON THE BASES OF GEO-TECHNICAL RECOMMENDATIONS AS PROVIDED IN GEO-TECHNICAL RECOMMENDATIONS.
10. BACKFILL AROUND THE FOUNDATION SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDE OF THE FOUNDATION.
11. TYPE II OR ORDINARY PORTLAND CEMENT (OPC) WITH LOW ALKALI CONTENT SHALL BE USED AS PER GEO-TECHNICAL RECOMMENDATION.
12. SEEPAGE WATER PRESENT AT SHALLOW DEPTH AND MAY ENCOUNTER DURING EXCAVATION THEREFORE, Dewatering measure shall be taken before excavation of foundation.
13. FILLING MUST BE CARRIED OUT IN 6" THICK LAYERS USING A44 OR BETTER MATERIAL AS PER ASHTO CLASSIFICATION. MINIMUM COMPACTION FOR MATERIAL UPTO 1M DEPTH BELOW FOUNDATION BASE SHALL BE AT-LEAST 93% OF MODIFIED PROCTOR DENSITY. HOWEVER, REMAINING FILL MATERIAL MUST BE COMPACTION AT-LEAST 90% OF MODIFIED PROCTOR DENSITY.
14. SLOPE PROTECTION, IF REQUIRED, SHALL BE AS PER RELEVANT SPECIALTY DRAWINGS.
15. FOR EARTHEN DRAIN, ITS SIZE, PROFILE ETC SHALL BE AS PER RELEVANT HYDRAULIC DRAWINGS.
16. FOR SHORT TERM STABILITY, CLAY CAPPING ALONG WITH VEGETATION SHOULD BE CONSIDERED TO PROTECT THE SIDE SLOPES FROM EROSION.



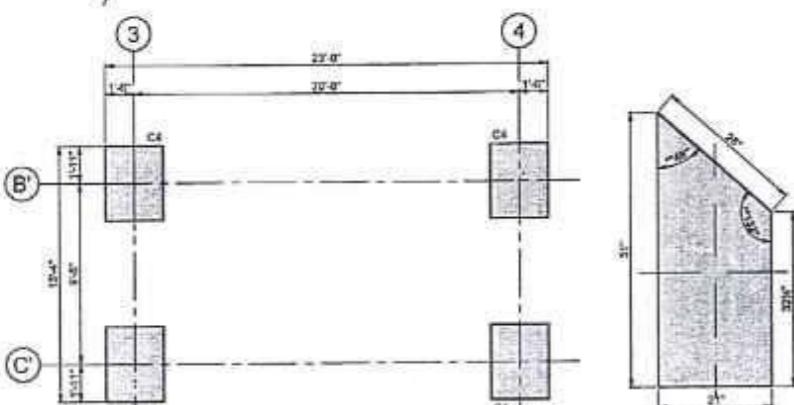
NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES REFER DRAWING NO. 4384/037/C/001.
3. BACK FILLING AROUND FOUNDATIONS & WALLS SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES IN ORDER TO AVOID ANY LATERAL DISPLACEMENT. BACK FILLING UNDER FLOORS AND AROUND FOUNDATIONS SHALL BE DONE IN LAYERS NOT EXCEEDING 6 IN.
4. THE AREA AROUND THE WALL SHALL BE PROPERLY DRAINED DURING AND AFTER CONSTRUCTION OF THE BOUNDARY WALL. PROPER DRAINAGE SYSTEM SHALL BE ADOPTED.
5. MORTAR USED IN MASONRY CONSTRUCTION (1:3) SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 1000 PSI AND SHALL CONFORM TO ASTM C270/COMPRESSIVE STRENGTH OF MASONRY AT 28 DAYS SHALL NOT BE LESS THAN 1100 Psi.
6. EXPANSION JOINT IN BOUNDARY WALLS SHALL BE FURNISHED AFTER 96'-0" (EVERY 12 PANELS) INTERVAL IN STRAIGHT WALL.
7. THE ON-SITE SOIL AT THE FOUNDATION BASE SHOULD BE PROOF ROLLED (ANY SOFT/LOOSE POCKETS AT THE EXCAVATION BASE LEVEL SHOULD ALSO BE EXCAVATED AND REPLACED WITH SELECT FILL MATERIAL) IN ADDITION, FOUNDATION TRENCHES/ PITS MUST BE PROTECTED FROM INGRESS OF WATER DURING FOUNDATION CONSTRUCTION.
8. THE FOUNDATION EXCAVATION MUST BE INSPECTED BY AN EXPERIENCED GEO-TECHNICAL ENGINEER PRIOR TO POURING OF LEAN CONCRETE FOR ANY UNUSUAL SUBSURFACE CONDITIONS. GEO-TECHNICAL ENGINEER MUST BE CONSULTED PRIOR TO INITIATION OF THE FOUNDATION CONSTRUCTION.
9. THE FOUNDATIONS HAVE BEEN DESIGNED ON THE BASES OF GEO-TECHNICAL RECOMMENDATIONS AS PROVIDED IN GEO-TECHNICAL RECOMMENDATIONS.
10. TYPE II OR ORDINARY PORTLAND CEMENT (OPC) WITH LOW ALKALI CONTENT SHALL BE USED AS PER GEO-TECHNICAL RECOMMENDATION.
11. SEEPAGE WATER PRESENT AT SHALLOW DEPTH AND MAY ENCOUNTER DURING EXCAVATION THEREFORE, Dewatering measure shall be taken before EXCAVATION OF FOUNDATION.
12. FILLING MUST BE CARRIED OUT IN 6" THICK LAYERS USING A-4 OR BETTER MATERIAL AS PER AS4370 CLASSIFICATION. MINIMUM COMPACTION FOR MATERIAL UPTO 1M DEPTH BLOW FOUNDATION BASE SHALL BE AT LEAST 95% OF MODIFIED PROCTOR DENSITY. HOWEVER, REMAINING FILL MATERIAL MUST BE COMPACTION AT LEAST 90% OF MODIFIED PROCTOR DENSITY.
13. SLOPE PROTECTION, IF REQUIRED, SHALL BE AS PER RELEVANT SPECIALTY DRAWINGS.
14. FOR EARTHEN DRAIN, ITS SIZE, PROFILE ETC SHALL BE AS PER RELEVANT HYDRAULIC DRAWINGS.
15. FOR SHORT TERM STABILITY, CLAY CAPPING ALONG WITH VEGETATION SHOULD BE CONSIDERED TO PROTECT THE SIDE SLOPES FROM EROSION.

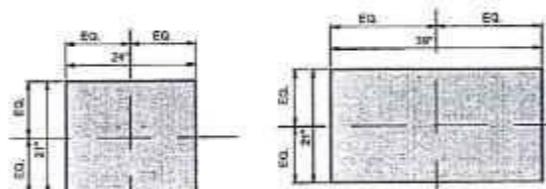
CLIENT	CONSULTANT	PROJECT	TYPICAL BOUNDARY WALL (TYPE-B) PLAN & SECTIONS CONCRETE OUTLINE & REINFORCEMENT		SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLE	4384/037/C/1G03	1/8"=1'-0"	REV. 0
	HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN		DATE	DRAWING No.	
			FEB, 2025	4384/037/C/1G03	
	REV.	REV.			
	DATE	DESCRIPTION	APPROVED	APPROVED	
	REV.				
	04		DRAWE	ASIM KASURI	
	03		SUBMITTED		
	02		RECOMMENDED		
	01		CHOOED		



GENERAL COLUMN LAYOUT
(RC WALLS NOT SHOWN HERE FOR CLARITY)
SCALE 1:675



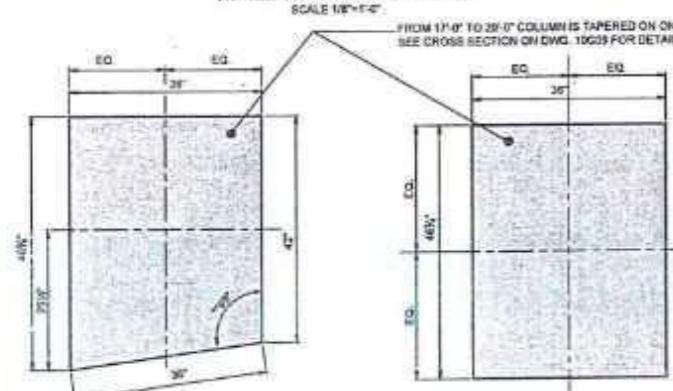
COLUMN C4 PART LAYOUT AT
"EL (+20'-0") TO "EL (+23'-0""
(RC WALLS NOT SHOWN HERE FOR CLARITY)
SCALE 1:675



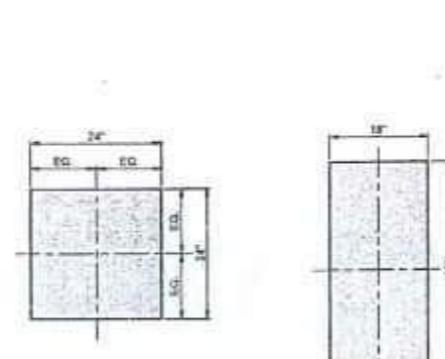
COLUMN C2
(CONCRETE OUTLINE)
SCALE 1:10

COLUMN C3
(CONCRETE OUTLINE)
SCALE 1:10

COLUMN C1
(CONCRETE OUTLINE)
SCALE 1:10



COLUMN C4
(FROM FOUNDATION UPTO EL (+17'-0")
(CONCRETE OUTLINE)
SCALE 1:10



PEDESTAL P1 FOR GATE
(FROM FOUNDATION UPTO EL (+18'-0")
(CONCRETE OUTLINE)
SCALE 1:10

PEDESTAL P2
(CONCRETE OUTLINE)
SCALE 1:10

PEDESTAL P3
(CONCRETE OUTLINE)
SCALE 1:10

NOTES

- FOR GENERAL NOTES REFER TO DRAWING NO. G001 & G002.
- ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (U.N.D.).
- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ELECTRICAL, MECHANICAL, ARCHITECTURAL, SEWAGE & PLUMBING DRAWINGS, INCLUDING GEOTECHNICAL REPORT.
- ALL THE EXCAVATION FOR OPEN FOUNDATIONS SHALL BE SUBJECT TO INSPECTION BY THE GEOTECHNICAL ENGINEER PRIOR TO POURING OF CONCRETE.
- THE LEVELS SHALL BE CONFIRMED ON SITE AND COORDINATED WITH OTHER DISCIPLINES SPECIALTY DRAWINGS BEFORE STARTING THE FOUNDATION WORKS.
- FOUNDATION IS DESIGNED AT NET ALLOWABLE BEARING CAPACITY OF 1.5 TONS/FT AT 6'0" BELOW N.S.L. WHICH MUST BE VERIFIED BEFORE EXECUTION AS PER GEOTECH RECOMMENDATIONS.
- FOR UTILITIES PIPE SIZES, SPECIFICATIONS, LEVELS AND LOCATIONS, REFER TO RELEVANT PLUMBING & SEWAGE WORKING DRAWINGS.
- SELECT FILL (IF REQUIRED) HEIGHT & SPECIFICATIONS SHALL BE ASSURED BEFORE EXECUTION OF WORK AT SITE. REFER TO GEOTECHNICAL REPORTS FOR ALL THE FILL/CUT AND COMPACTION REQUIREMENTS.
- THE MOISTURE CONTENT OF SELECT FILL LAYER SHALL BE CONTROLLED TO WITHIN 42% OF THE OPTIMUM MOISTURE CONTENT (AS PER GEOTECH. RECOMMENDATIONS).
- DE-WATERING AND PROPER ENGINEERING TREATMENT TO CONTROL WATER UNDER FOUNDATION IS TO BE PRACTICED PRIOR TO PLACEMENT OF FOUNDATION CONCRETE.
- PROPER DRAWDOWN SHALL BE ADOPTED IN THE AREA ADJACENT TO THE STRUCTURE DURING AND AFTER EXECUTION.
- PROPER ARRANGEMENT SHALL BE MADE FOR PROTECTION OF SLOPE EMBANKMENT AND EROSION OF EARTH.
- IF THE STRUCTURE IS PLACED AT NEAR GROUND SURFACE (N.S.L) THAT PREVIOUSLY USED FOR AGRICULTURAL PURPOSES, THE TOP UNSATURATED SOIL SHALL BE REMOVED AND REPLACED WITH SELECT FILL MATERIAL.
- FOR ALL DRAINAGE/HAZARD PROFILE, LAYOUT, SLOPES, FINISHES REFER THE CONTRACT DOCUMENTS.
- USE BRICK MASONRY ABOVE FFL (16'-0" U.N.D.).
- USE SOLID CONCRETE BLOCK MASONRY UPTO FFL (16'-0" U.N.D.).
- ALL RC SLABS ARE 8" THICK (U.N.D.).
- PROVIDE DISTRIBUTION TEMPERATURE & SHRINKAGE REINFORCEMENT IN RC SLAB/ROOF #3@#8 WHERE NOT MENTIONED.
- PROVIDE A CAMBER OF 1/2 IN SLABS OR ROOF.
- PROVIDE A CAMBER OF 3/4" IN BEAMS.
- PROVIDE A CAMBER OF 1-3/4" IN 40 SPAN MAIN BEAM.
- PROVIDE AN UPWARD CAMBER IN ALL CANTILEVER BEAMS, AFTER DISSECTION BY THE ENGINEER (THE MIN. VALUE OF CAMBER IS 1/16, U.N.D.).
- IN WALL OPENINGS PROVIDE ADDITIONAL 2#6 REBARS ON EACH FACE ALL AROUND IN 2 SIDED REINFORCING MESH ARRANGEMENT AND ALSO REFER GENERAL NOTES DRAWINGS.
- USE CONCRETE HAVING F' = 4000 Psi, 28 DAYS COMPRESSIVE CYLINDER STRENGTH.
- USE DEDUCED REINFORCEMENT OF GRADE 40 (F' = 60000 Psi) FOR YIELD STRENGTH AS PER ASHTA 40/96 (LATEST EDITION).
- ALL WATER PROOFING ON SURFACE BELOW FFL (16'-0") SHOULD BE AS PER THE CONTRACT SPECIFICATIONS.
- DURING CONSTRUCTION, IT IS MANDATORY THAT THE RC TUB STRUCTURE SHOULD BE MADE IN A BALANCED WEIGHT FORM BY MAKING SURE THAT BOTH SIDES OF THE TUB BE MADE AT THE SAME TIME SO THAT THE OVERALL STABILITY IS NOT COMPROMISED.
- ALL CONSTRUCTION OF THE GATE TUB AND ADJACENT STRUCTURES TO BE EXECUTED IN A PRECISE SEQUENCE OF BALANCED WEIGHT OF STRUCTURE & STRUCTURAL COMPONENTS WITH STRICT INSTRUCTIONS FROM SITE ENGINEER REFERRED TO OVERALL AND LOCAL STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- DURING LAYING OF SOIL AROUND THE MASONRY WALLS UPTO EL (16'-0") IT SHOULD BE ENSURED THAT THE SOIL MUST BE LAID IN EQUAL LAYERS AND WELL-COMPACTED EQUALLY ON BOTH SIDES OF THE MASONRY WALL TO AVOID INSTABILITY OF WALL.
- THE DESIGN OF RC SLATE STRUCTURE AND ADJACENT WALL STRUCTURE HAS NOT BEEN DESIGNED FOR VERTICAL IMPACT/COLLISION LOADS.
- THE FLOOR FINISHES OVER FLOOR SLAB OF EL (+23'-0") MUST NOT INCREASE BY 8".

MASONRY (GENERAL REQUIREMENTS)

- ALL DESIGN, DETAILING, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT ASH, ACI AND U.S.A. CODES AND STANDARDS. TESTING OF COMPRESSIVE STRENGTH OF MASONRY SHALL BE DONE, IF SO DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH ASTM OR PAKISTAN STANDARD.
- TESTING OF COMPRESSIVE STRENGTH OF MASONRY SHALL BE DONE, IF SO DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH ASTM OR PAKISTAN STANDARD.
- ALL MASONRY WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 3mm/1m (3mm/3m) OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- ALL MASONRY WALL ABOVE FLINTH LEVEL, SHALL BE CONSTRUCTED AFTER CONSTRUCTION OF RC FRAME STRUCTURE.

BRICK MASONRY

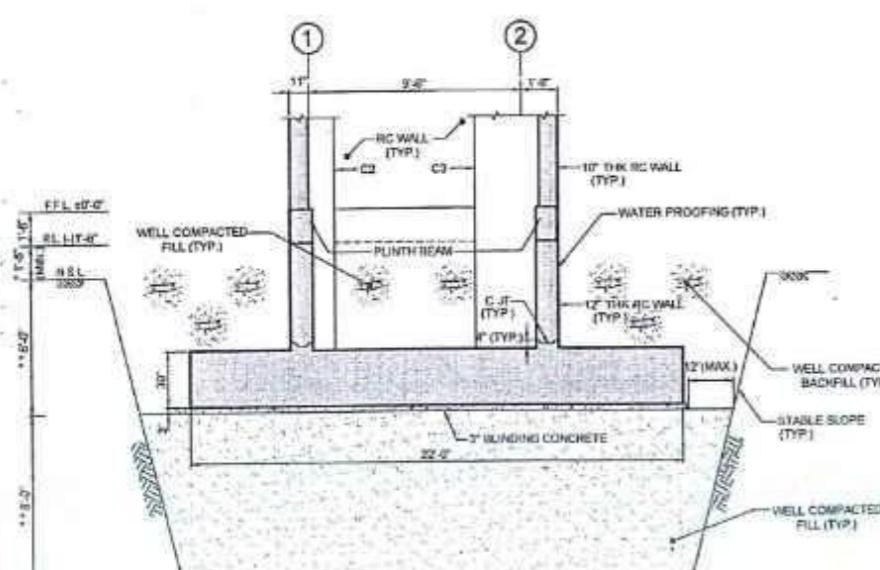
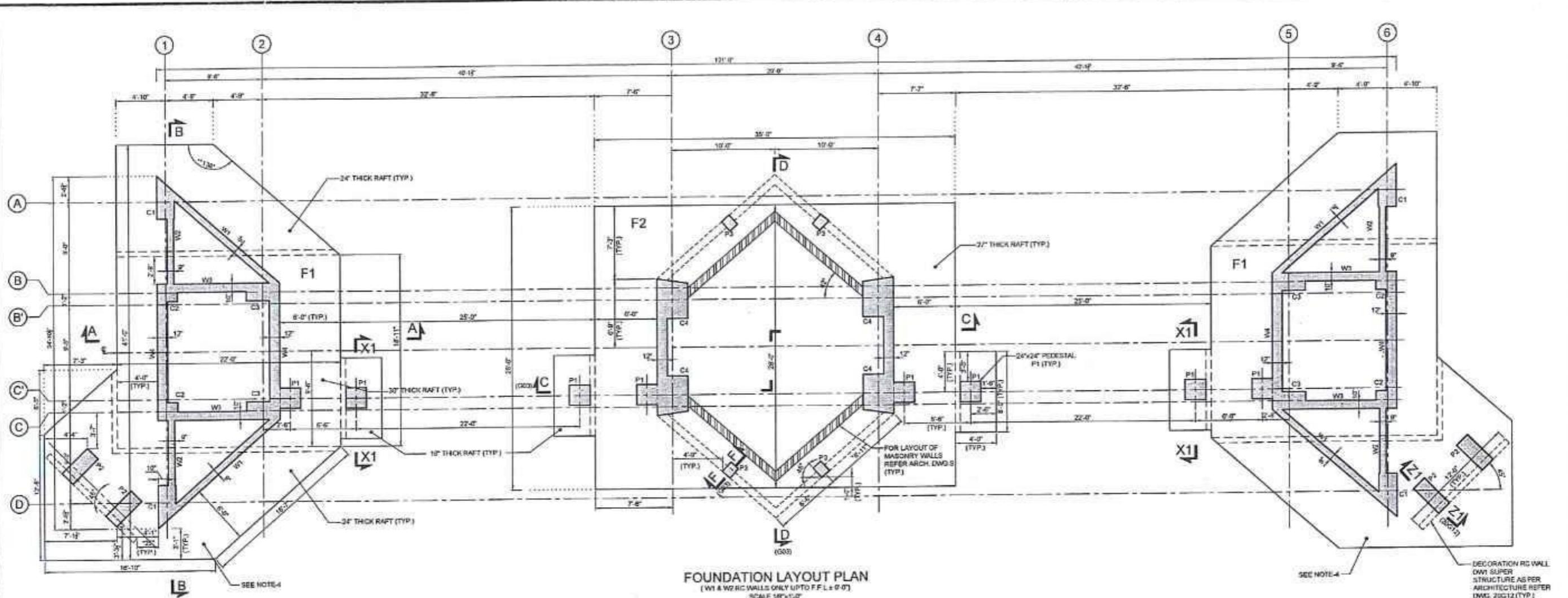
- ALL BRICK WORK SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
- ALL BRICKS SHALL BE BURNED, HARD, WELL BURNED AND OF UNIFORM SIZE, COLOUR, AND TEXTURE. DIMENSIONAL VARIATION IN SIZES SHALL NOT EXCEED 3mm(1m).
- ALL BRICK WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 3mm/1m (3mm/3m) OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- THE AVERAGE COMPRESSIVE STRENGTH OF TWELVE BRICKS SHALL BE NOT LESS THAN 17.5 MPa (2500 Psi) AND SHALL BE NOT LESS THAN 14 MPa (2000 Psi) FOR ANY INDIVIDUAL BRICK.
- BRICK SHALL BE LAID "FROG" UPWARD WITH MORTAR JOINT AND IN ENGLISH AND FLEMISH BOND OR AS DIRECTED BY THE ENGINEER.
- ALL MASONRY SHALL BE LAID IN CEMENT SAND MORTAR AS PER CONTRACT SPECS UNLESS OTHERWISE SPECIFIED.

CONCRETE BLOCK MASONRY

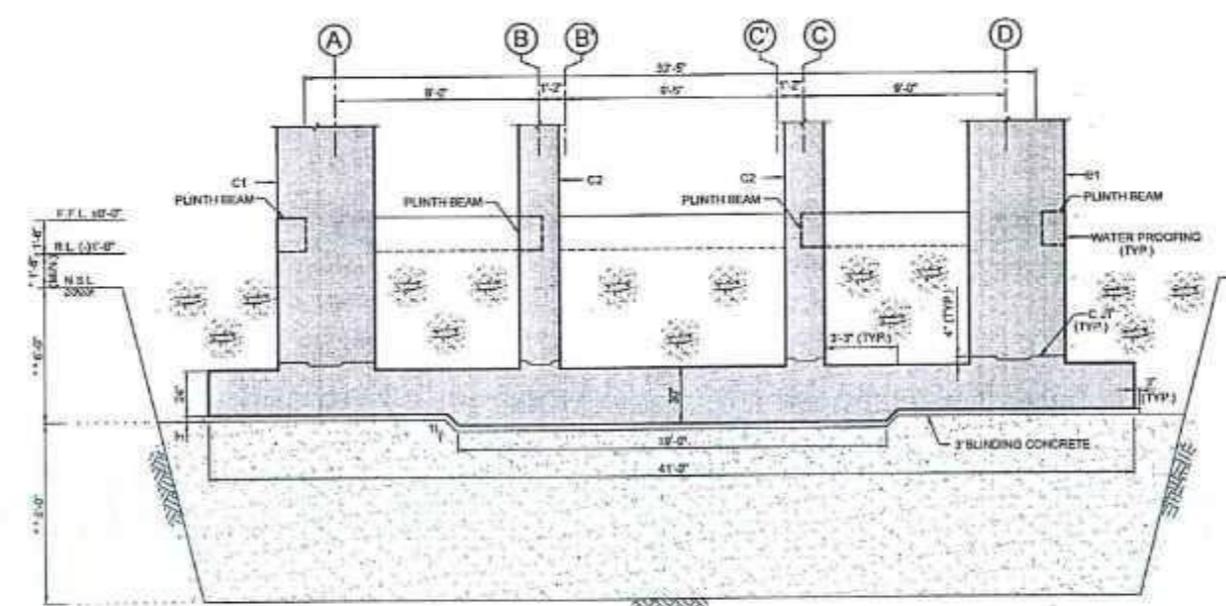
- ALL SOLID BLOCK MASONRY CONCRETE BLOCK MASONRY SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
- THE AVERAGE 28 DAYS COMPRESSIVE STRENGTH OF ANY SIX BLOCKS PICKED AT RANDOM AFTER CURING AND DRYING SHALL NOT BE LESS THAN 13 MPa (1900 Psi) FOR LOAD BEARING WALLS AND 8 MPa (1000 Psi) FOR NON LOAD BEARING WALL WHEN TESTED IN ACCORDANCE WITH ASTM C140.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 12.0 MPa (1800 Psi).

* AS PER SITE, SLIGHTLY ADJUSTED.
** AS PER SPECIALTY ENGINEERING / ARCHITECTURE RECOMMENDATIONS.

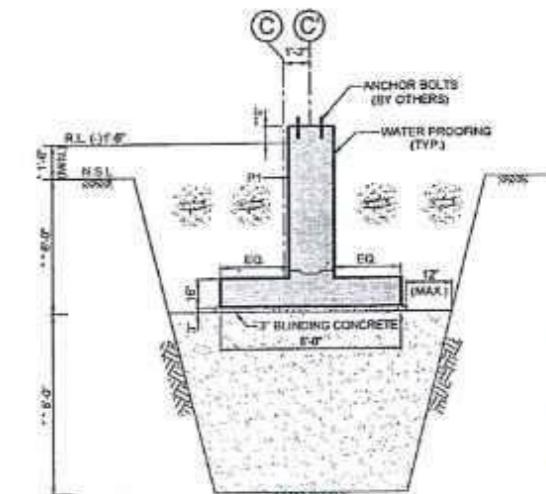
CLIENT	CONSULTANT	4	5	6	DRAWN	MANUFACTURED	PROJECT	DATE	SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	3	4	5	SUBMITTED	Q.M.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	GATE HOUSE GENERAL COLUMN LAYOUT (CONCRETE OUTLINE)	1:675
	HEAD OFFICE: NISPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	2	10-10-24	GENERAL REVISION DUE TO ARCH. CHANGES	RECOMMENDED	H.M.			
		1	15-09-24	GENERAL REVISION DUE TO ARCH. CHANGES	RE-CHECKED	A.R.			
		REV	DATE	DESCRIPTION	QC SUB/A/P	APPROVED		DRAWING NO.	REV
								4384/033/C/20G01	2



SECTION A-A
CONCRETE OUTLINE
SCALE 10'-0" x 1'-0"



SECTION B-B
CONCRETE OUTLINE



SECTION X1-X1
CONCRETE OUTLINE

NOTES: SCALE 1/4" = 1'-0"

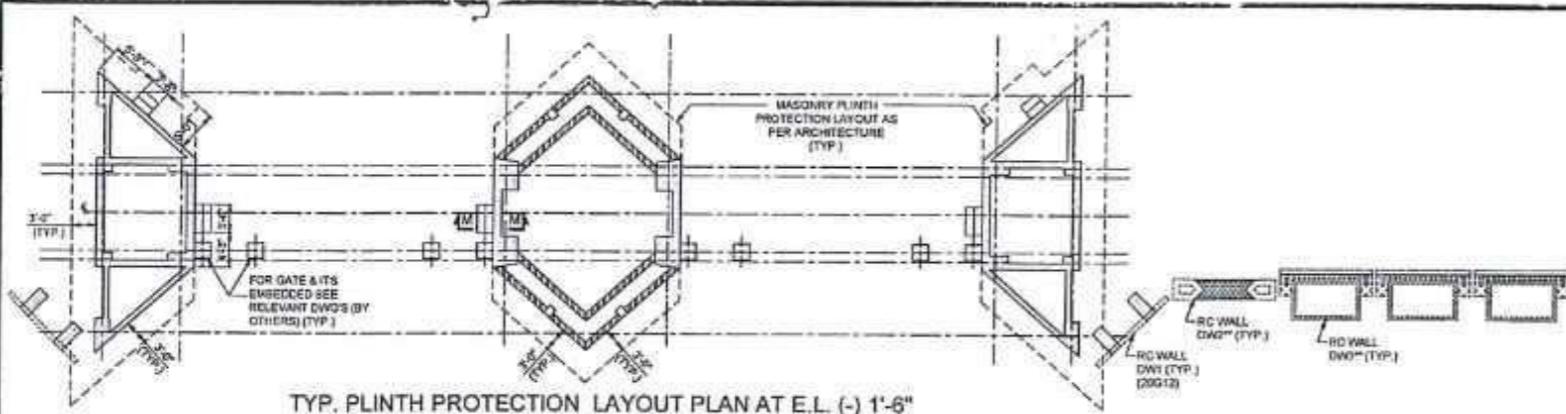
1. FOR NOTES REFER TO DRAWING NO. 28001
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (IN G).
4. NO FOOTING OF ANY ADDITIONAL STRUCTURE INCLUDING THE DECORATION WALLS, TWO BE PLACED ON FOOTING F1 OR F2.
- AS PER SITE, SLIGHTLY ADJUSTED.
- AS PER SPECIALTY ENGINEERING / ARCHITECTURE RECOMMENDATIONS.

CLIENT	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT	NATIONAL ENGINEERING SERVICE PAKISTAN (PVT.) LTD.
			HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN

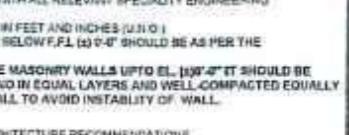
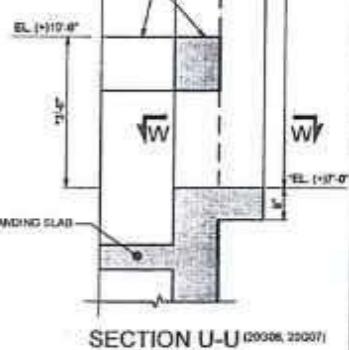
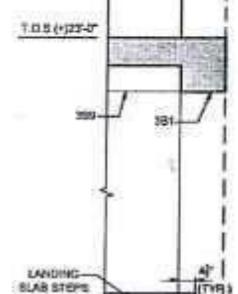
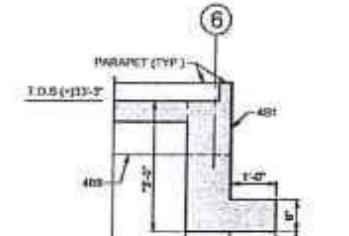
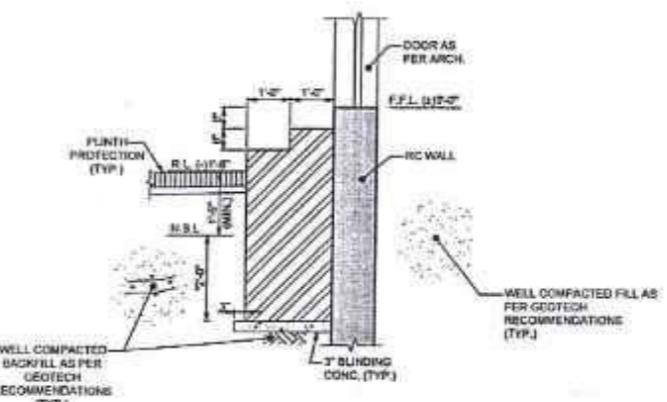
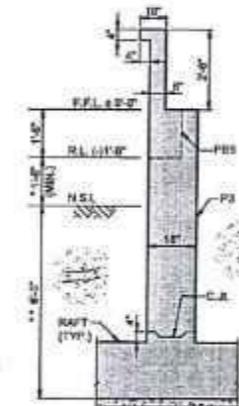
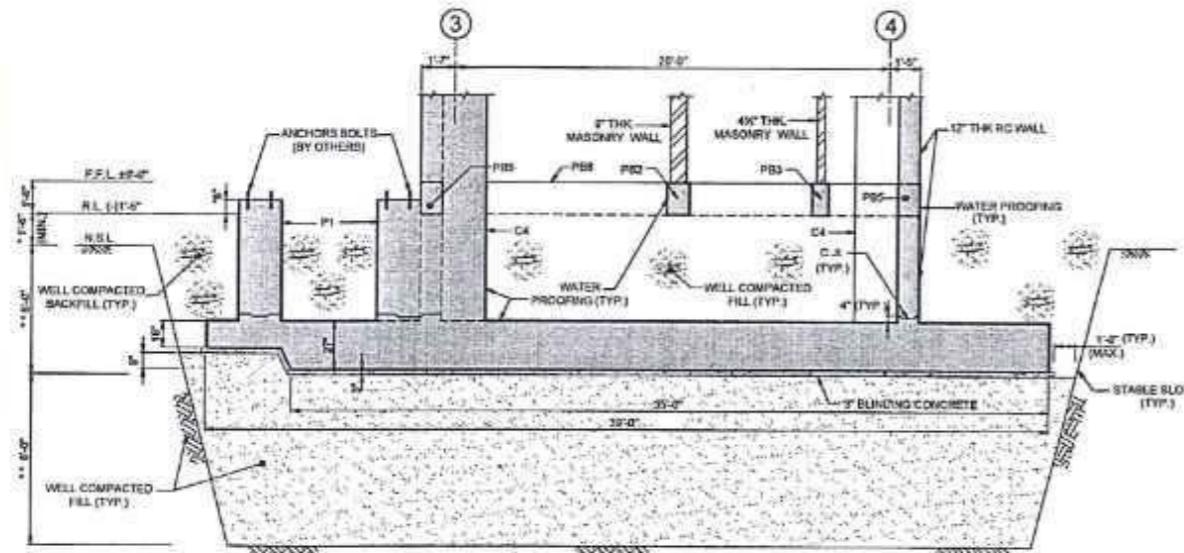
				DRAWN	ADMN/FAZ/ANBA
1.				SUBMITTED	Q.M
2.	10.10.24	GENERAL REVISION DUE TO ARCH. CHANGES	Q.M	RECOMMENDED	H.M
1.	18.09.24	GENERAL REVISION DUE TO ARCH. CHANGES	H.M Q.M A.R	CH.DRIVER:	A.R
REV	DATE	DESCRIPTION	CHG.SLS A.PM	APPROVED	-

PROJECT
MASTER PLANNING, INFRASTRUCTURE
DESIGN, EIA AND CONSTRUCTION
SUPERVISION OF ISLAMABAD SPECIAL
TECHNOPOLIS

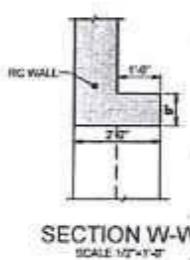
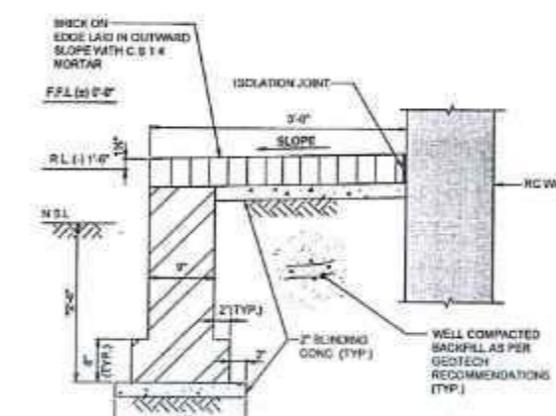
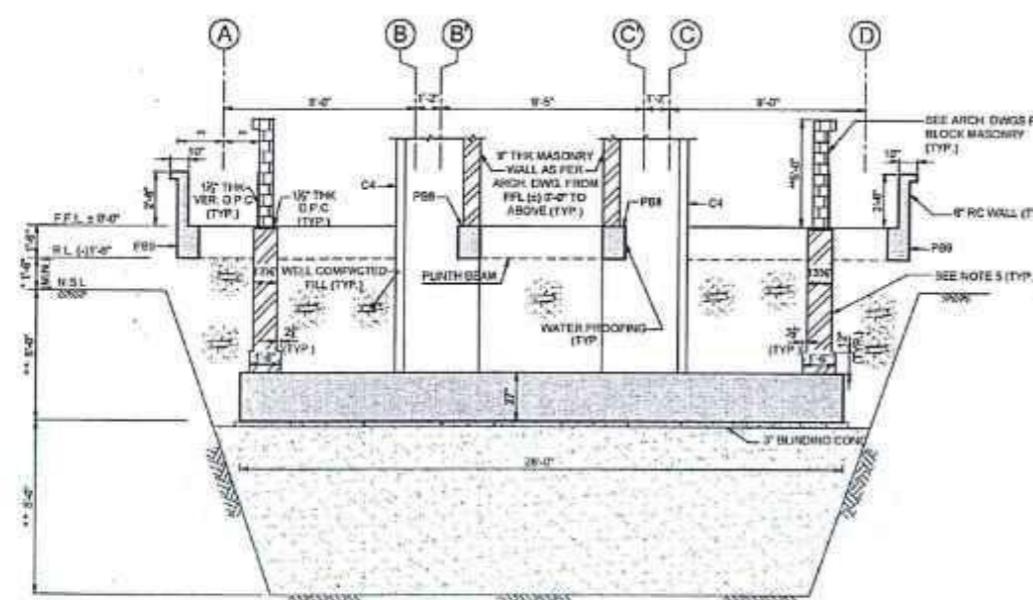
GATE HOUSE
FOUNDATION PLAN AND SECTIONS
(CONCRETE OUTLINE)



TYP. PLINTH PROTECTION LAYOUT PLAN AT E.L. (-) 1'-6"



SECTION C-C
CONCRETE OUTLINE
SCALE 1'-0" x 1'-0"

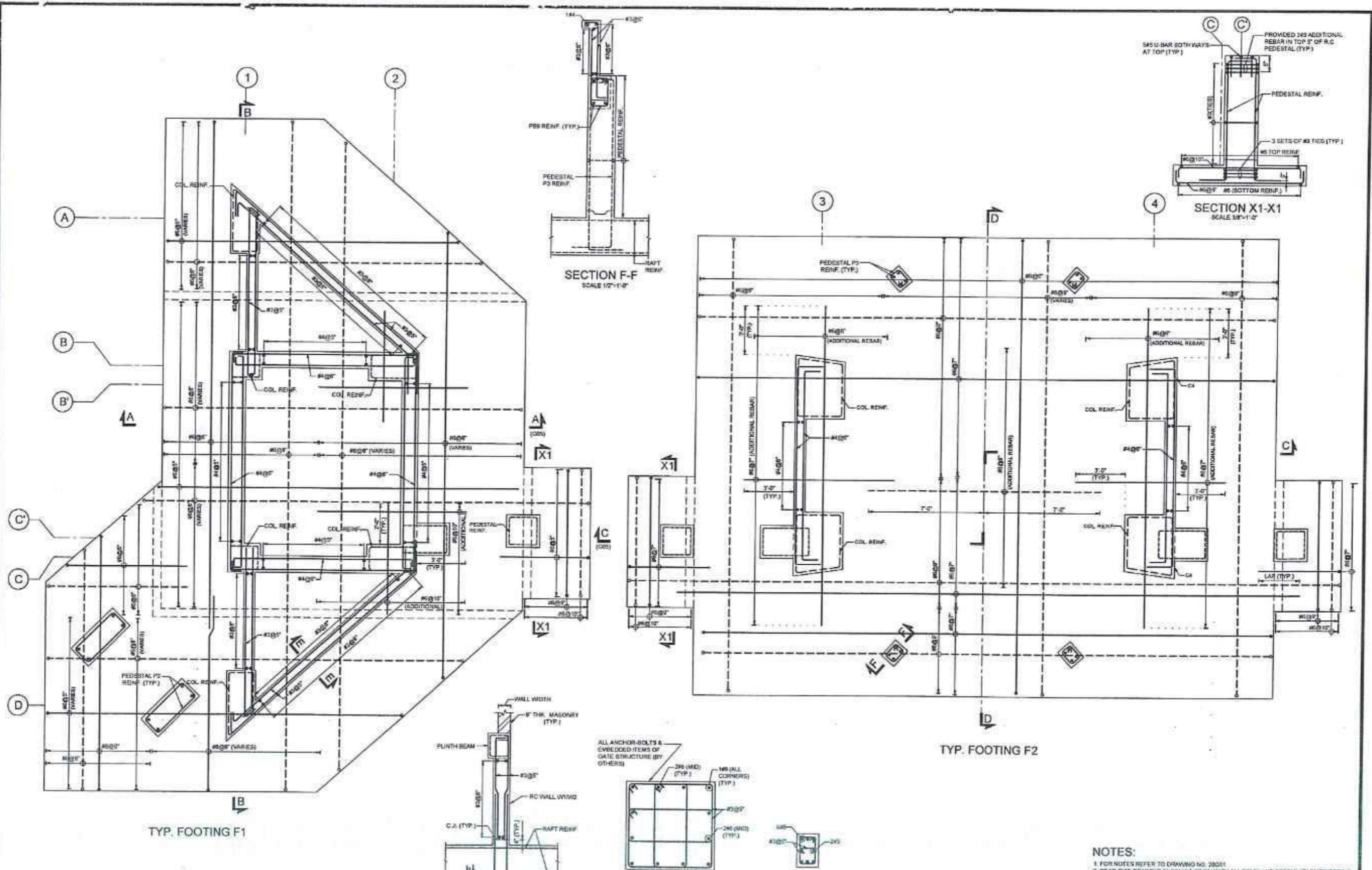


SECTION W-W
SCALE 1'-0" x 1'-0"

NOTES:

1. FOR NOTES REFER TO DRAWING NO. 20001.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL ELEVATIONS AND DEPTH ARE IN FEET AND INCHES (U.S. O.I.).
4. ALL WATER PROOFING ON SURFACE BELOW F.F.L. (8'-0") SHOULD BE AS PER THE CONTRACT SPECIFICATIONS.
5. DURING FILLING OF SOIL AROUND THE MASONRY WALLS UPTO E.L. (11'-0") IT SHOULD BE ENSURED THAT THE SOIL MUST BE LAID IN EQUAL LAYERS AND WELL-COMPACTED EQUALLY ON BOTH SIDES OF THE MASONRY WALL TO AVOID INSTABILITY OF WALL.
6. AS PER SITE, SLIGHTLY ADJUSTED.
7. AS PER SPECIALTY ENGINEERING/ARCHITECTURE RECOMMENDATIONS.

CLIENT	CONSULTANT	PROJECT	GATE HOUSE FOUNDATION SECTIONS (CONCRETE OUTLINE)	
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLE	DATE	DRAWING NO.
	HEAD OFFICE - NESPA HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN		JULY, 2024	4384/033/C/20G03
			REV.	2



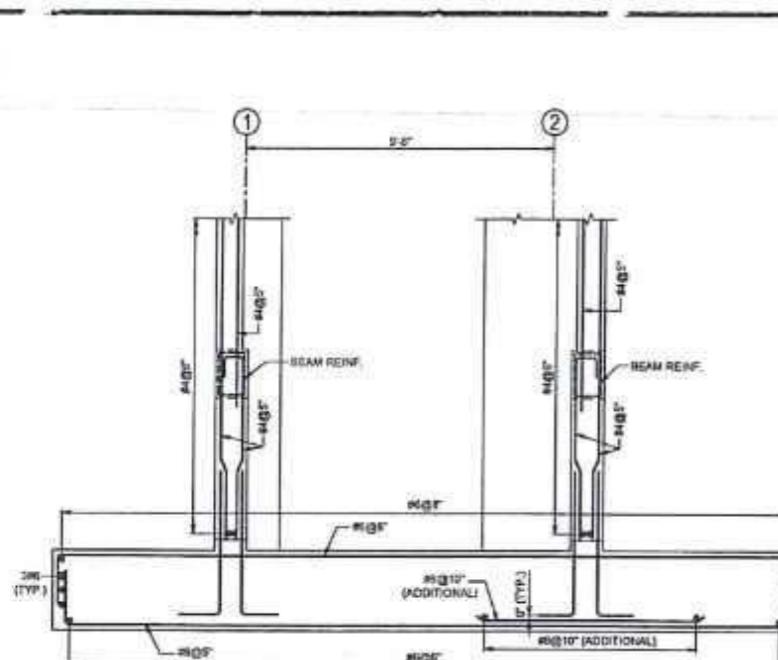
NOTES:

1. FOR NOTES REFER TO DRAWING NO. 20001.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (U.N.O.).
4. PROVIDE REINFORCING STEEL IN RAFT WHERE NOT MENTIONED.

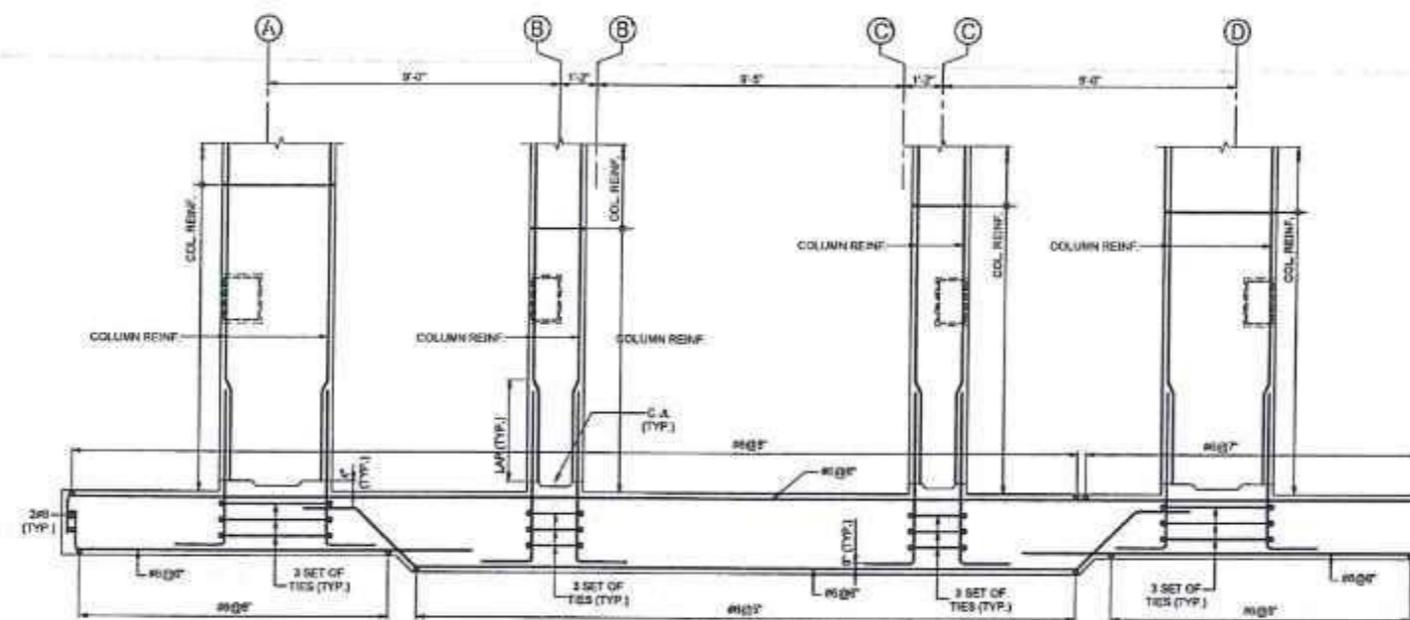
* AS PER SITE, SLIGHTLY ADJUSTED

** AS PER SPECIALTY ENGINEERING/ARCHITECTURE RECOMMENDATIONS

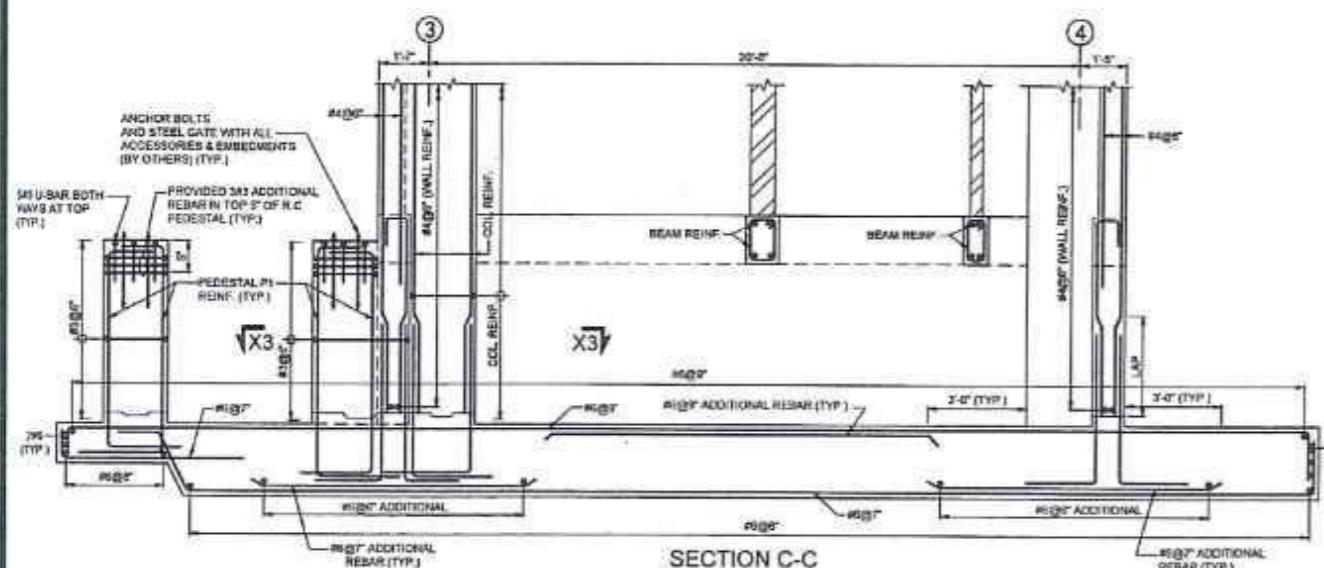
CLIENT	CONSULTANT	PROJECT	GATE HOUSE FOUNDATION SECTIONS (REINFORCEMENT)
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	SCALE 1'-0" TO 1'-0"
		DATE JULY, 2024	DRAWING NO. 4384/033/C/20G04



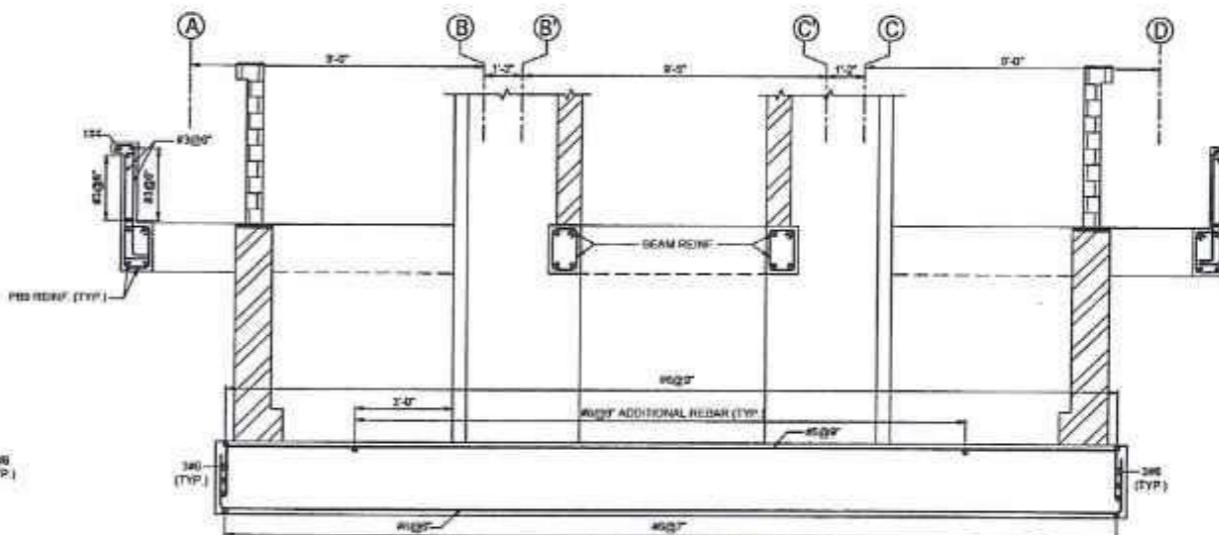
SECTION A-A



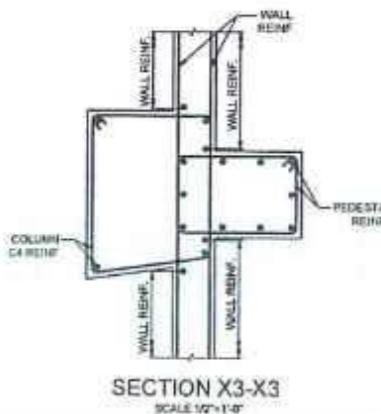
SECTION B-B



SECTION C-6



SECTION D-D



SECTION X3-X3

ENT



SPECIAL TECHNOLOGY
ZONES AUTHORITY

1 CONSEIL

NATIONAL ENGINEERING SERVICE
PAKISTAN (PVT.) LTD.

HEAD OFFICE: NESPAK HOUSE, I.C. BLOCK
MODEL TOWN EXTENSION, LAHORE, PAKISTAN

SERVICES	4				DRAW
	3				SUBMIT
	2				RECALL
REV.	10.10.24	GENERAL REVISION DUE TO ARCH. CHANGES	1	1	DRAW
	REV. DATE	DESCRIPTION	CD	SUB	APPRO

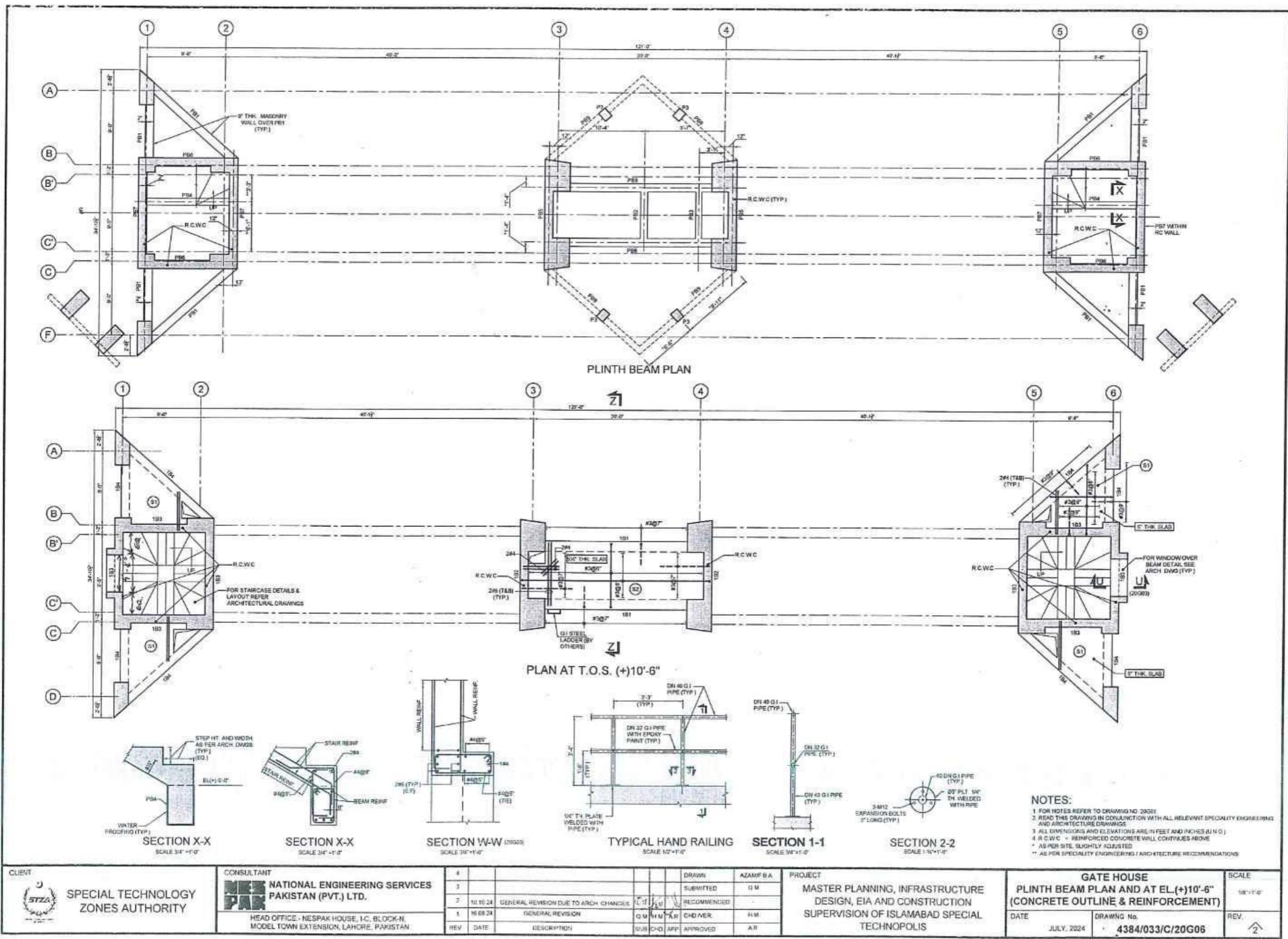
PROJECT
MASTER PLANNING, INFRASTRUCTURE
DESIGN, EIA AND CONSTRUCTION
SUPERVISION OF ISLAMABAD SPECIAL
TECHNOPOLIS

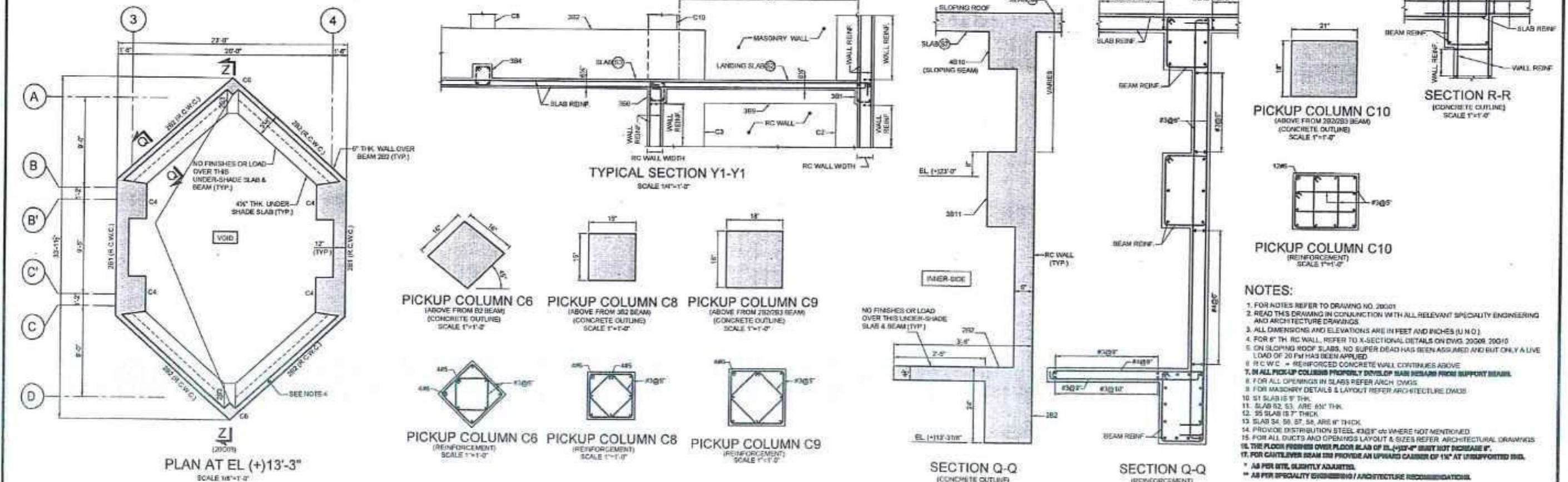
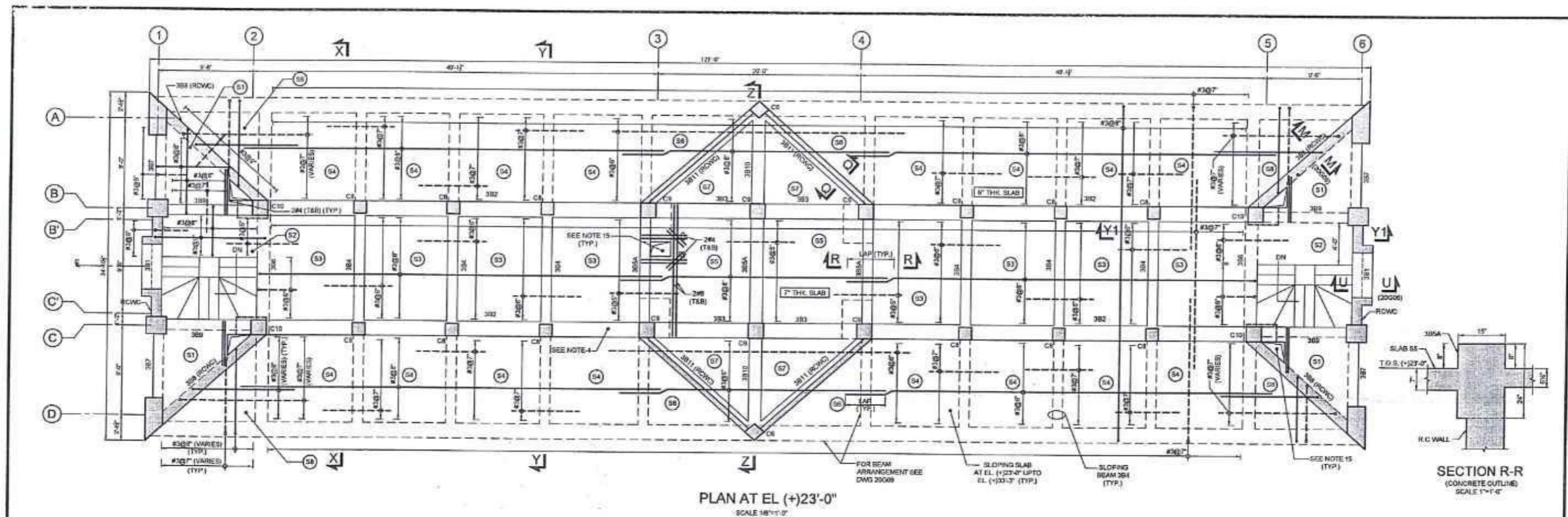
NOTES:

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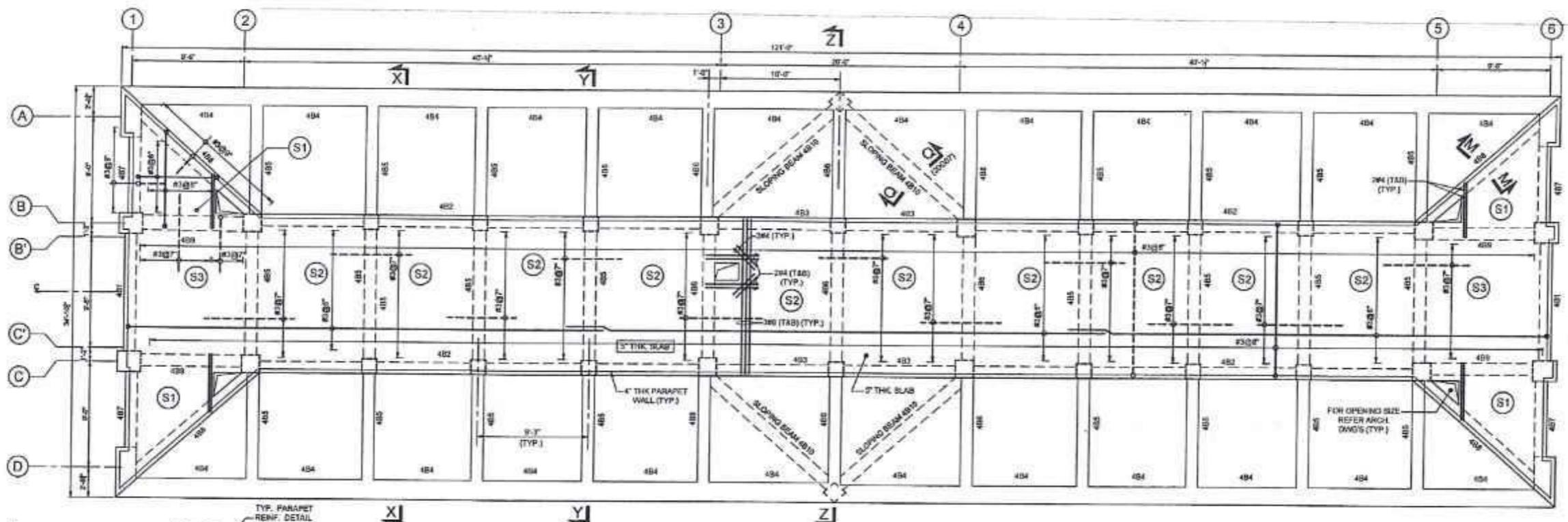
1. FOR NOTES REFER TO DRAWING NO. 20G01
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALITY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (IN O)
4. FOR ALL STICK WALLS, REFER ARCHITECTURAL DRAWINGS, AND OTHER RELEVANT SPECIALITY DRAWINGS.
5. AS PER SITE, SLIGHTLY ADJUSTED
6. AS PER GROUND ENGINEERING / ARCHITECTURE RECOMMENDATIONS.

GATE HOUSE FOUNDATION SECTIONS (REINFORCEMENT)		SCALE $35'' \times 1' 0''$
ITE	DRAWING No:	REV
JULY, 2024	4384/033/C/20G05	↑



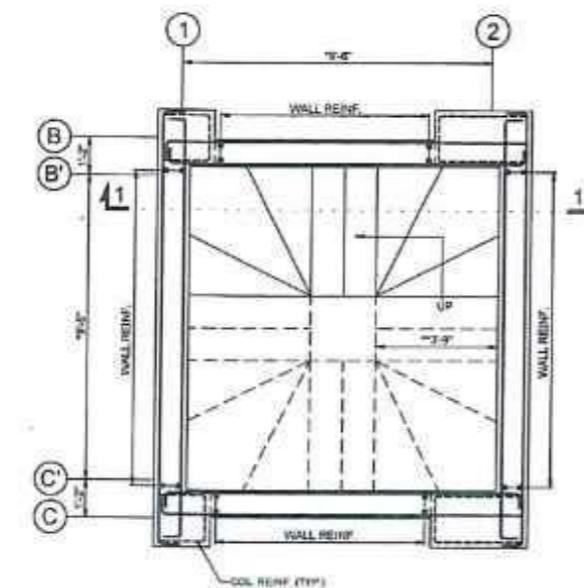
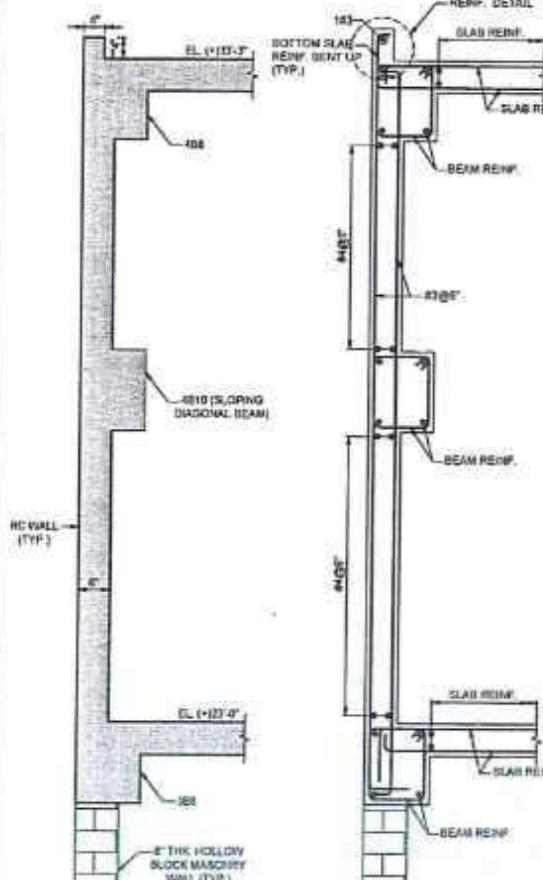


CLIENT	CONSULTANT	PROJECT	GATE HOUSE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	BEAM PLAN AT EL. (+)13'-3" & (+)23'-0" (CONCRETE OUTLINE & REINFORCEMENT)
	HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN	DATE	DRAWING No.
	REV. DATE	DESCRIPTION	4384/033/C/20G07
		SUB CHD APP	REV. 2
		APPROVED: A.R.	

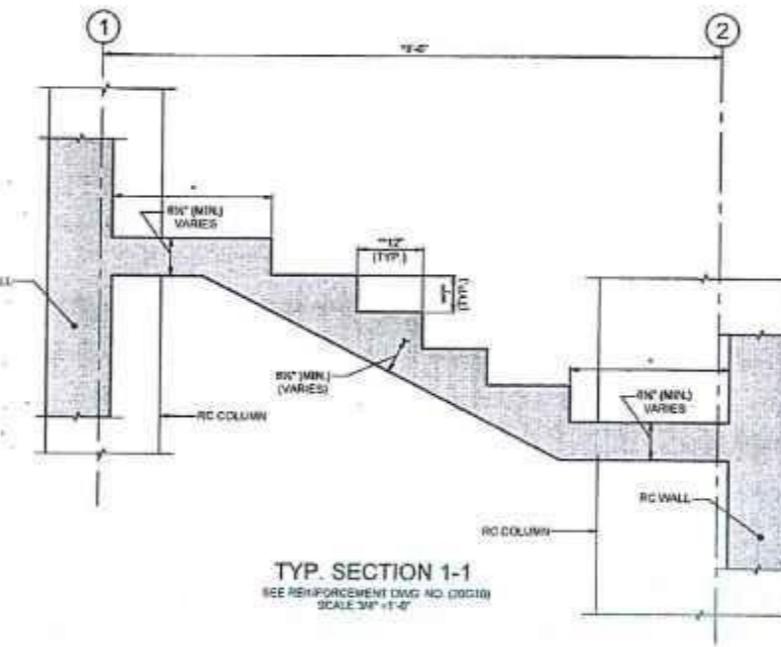


PLAN AT EL (+)33'-3"

ROOF SLAB S1, S2, S3 ARE 5" THK. (U.N.O)



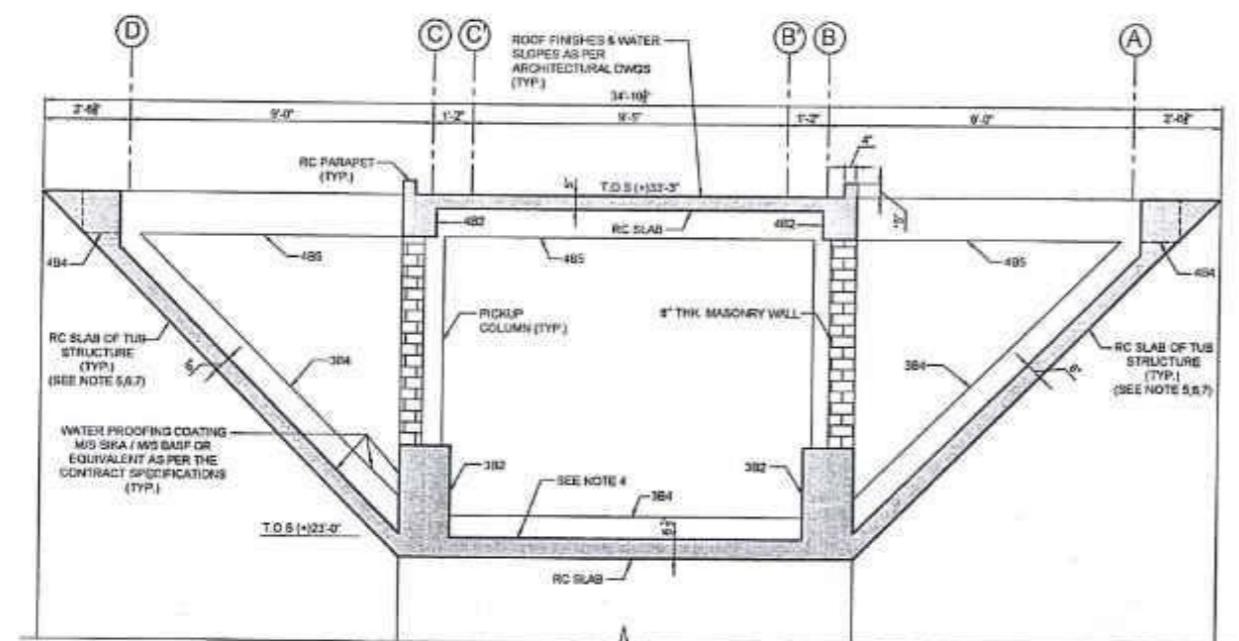
TYP. STAIRCASE PART PLAN
SCALE: 1'-0" x 1'-0"



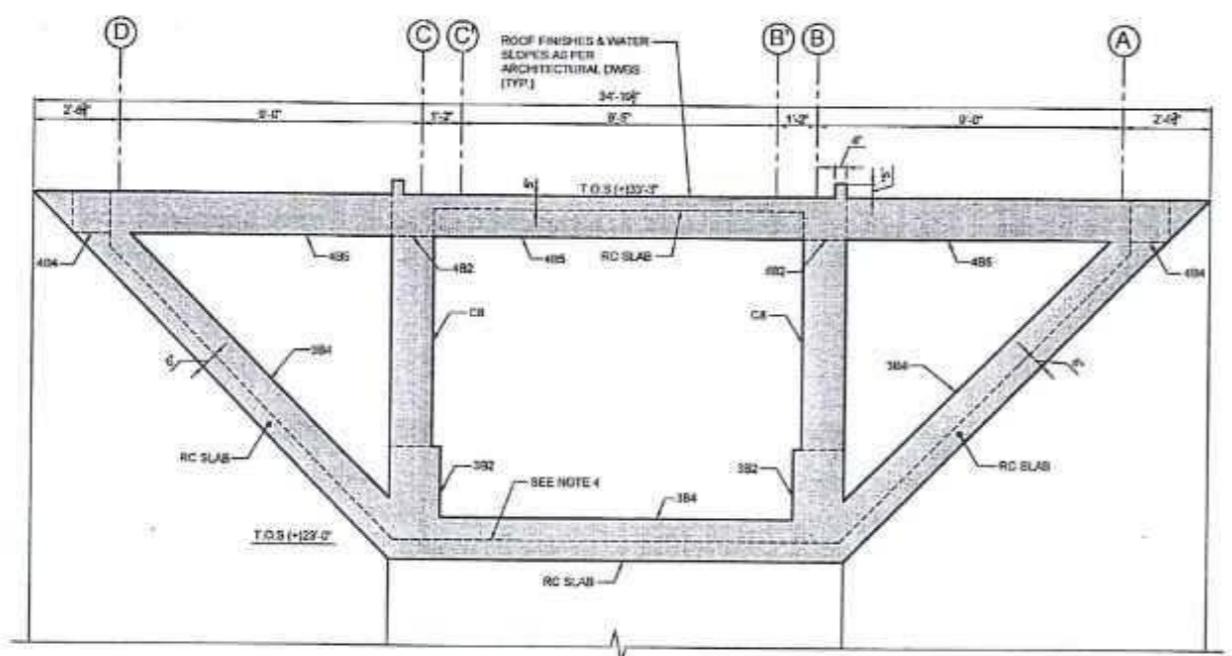
NOTES:

1. FOR NOTES REFER TO DRAWING NO. 2000.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (U.N.O.)
4. * AS PER SITE, SLIGHTLY ADJUSTED.
5. ** AS PER SPECIALTY ENGINEERING/ARCHITECTURE RECOMMENDATIONS.

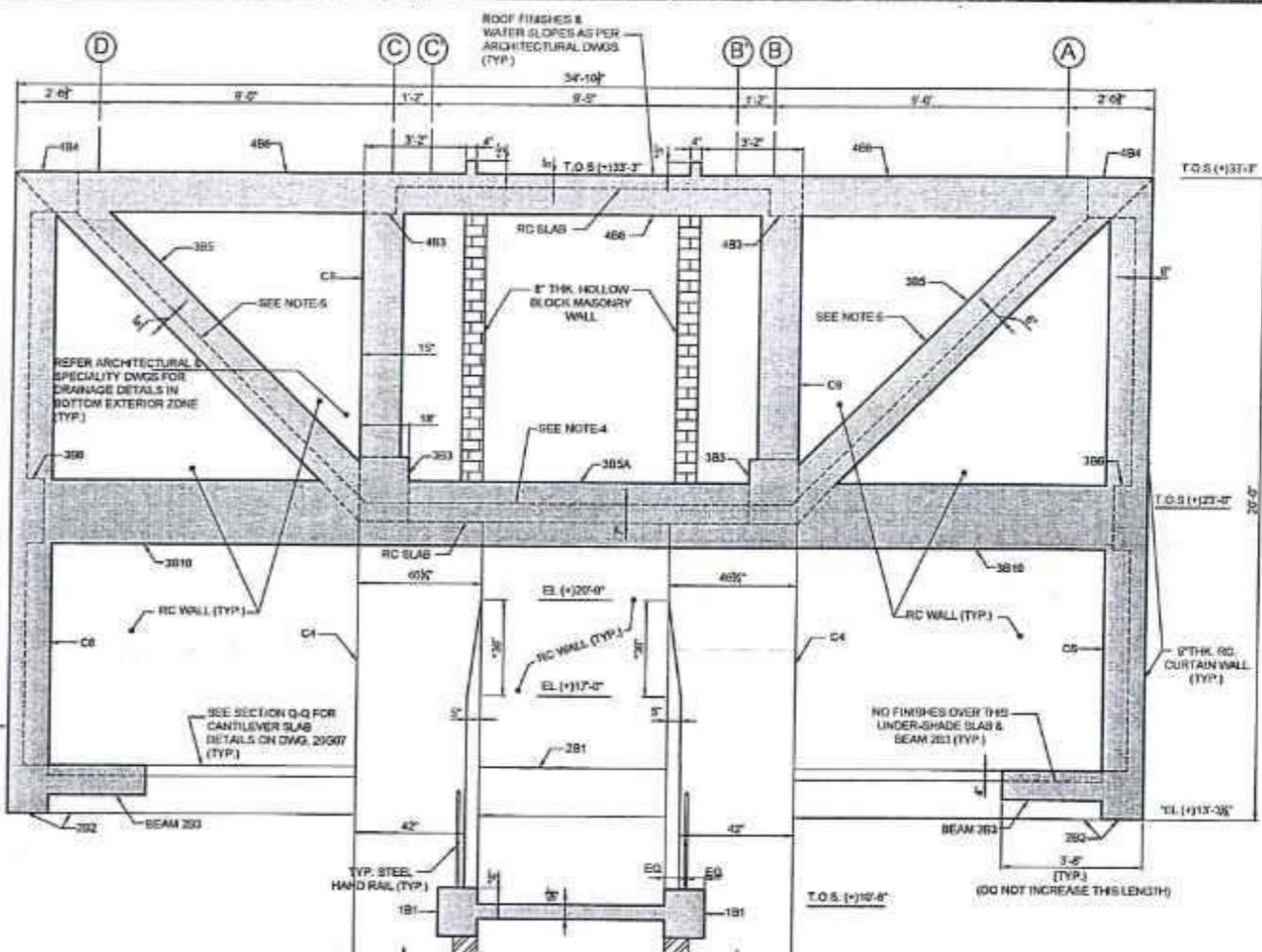
CLIENT	CONSULTANT	PROJECT	GATE HOUSE
 SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. <small>HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.</small>	<small>4</small> <small>3</small> <small>2</small> <small>1</small>	<small>DRAWN</small> <small>SUBMITTED</small> <small>RECOMMENDED</small> <small>REVIEWED</small> <small>APPROVED</small>
		<small>10.10.24</small> <small>GENERAL REVISION DUE TO ARCH. CHANGES</small> <small>16.09.24</small> <small>GENERAL REVISION</small>	<small>Q.M.</small> <small>Q.M.</small> <small>-</small> <small>H.M.</small> <small>H.M.</small>
		<small>REV.</small> <small>DATE</small> <small>DESCRIPTION</small> <small>SUB CHG APP</small> <small>APPROVED</small> <small>AR</small>	<small>DATE</small> <small>JULY, 2024</small> <small>DRAWING NO.</small> <small>4384/033/C/20G08</small> <small>REV.</small> <small>2</small>



SECTION X-X (2002)
(INC TUB STRUCTURE)
(CONCRETE OUTLINE)
SCALE 3'-0"-1'-0"



SECTION Y-Y (2002)
(CONCRETE OUTLINE)
(FOR REINFORCEMENT SEE SECTION Z-Z)
SCALE 1'-0"-1'-0"

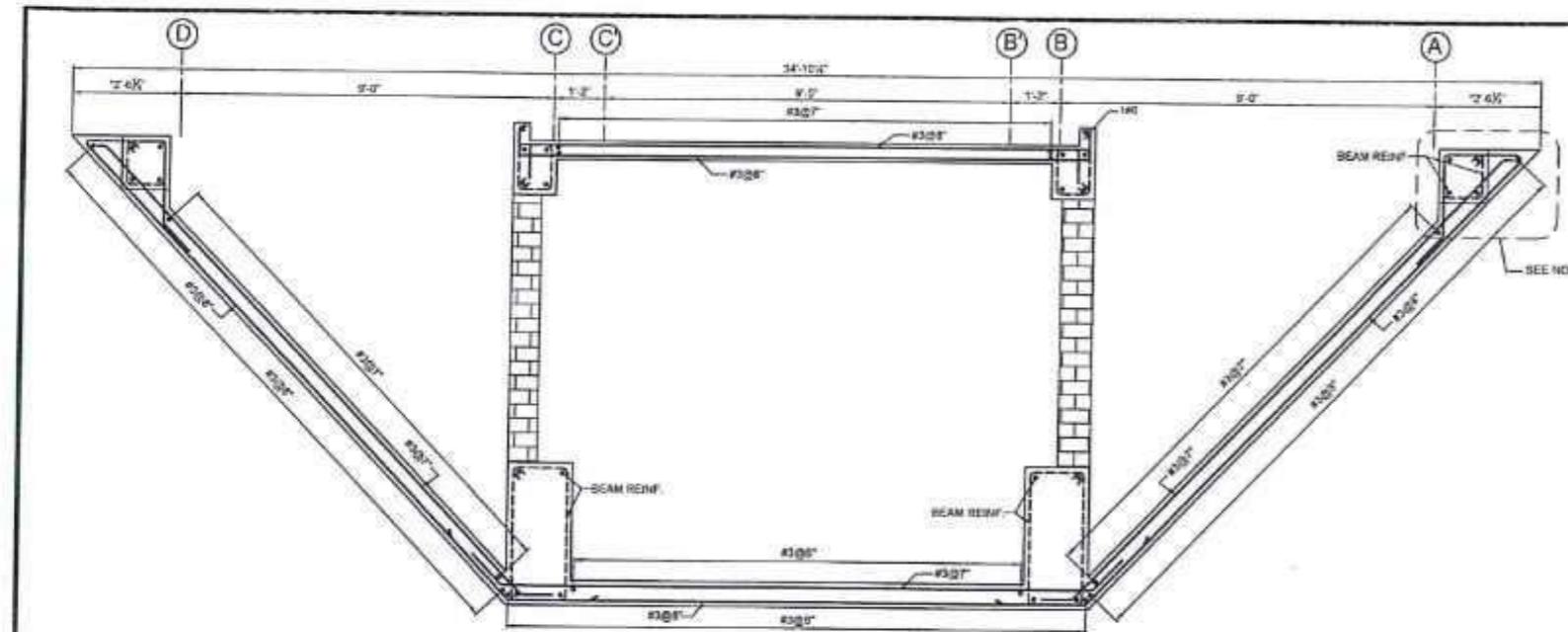


SECTION Z-Z (2002)
CONCRETE OUTLINE
SCALE 1'-0"-1'-0"

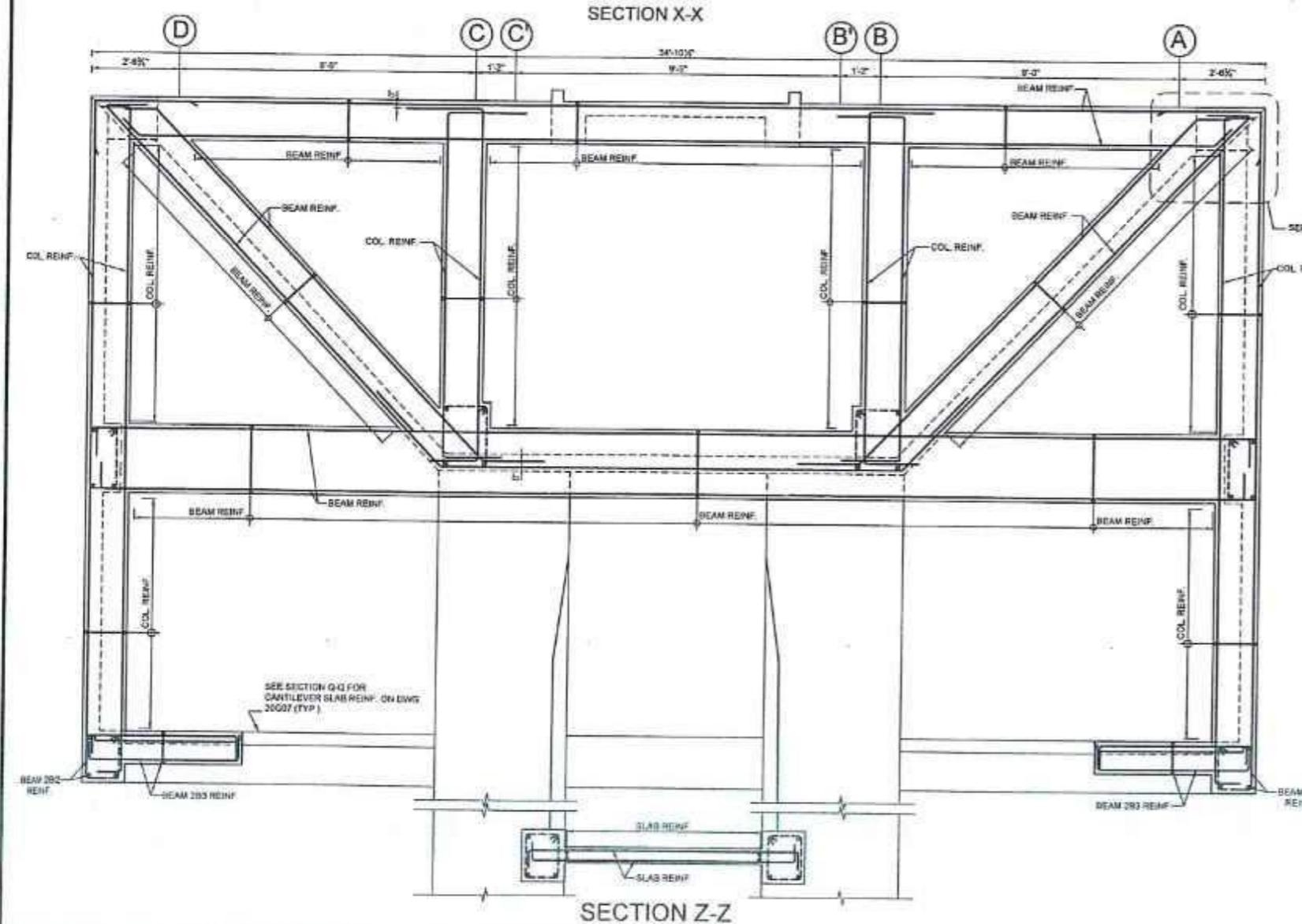
NOTES:

1. FOR NOTES REFER TO DRAWING NO. 20021.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (U.N.O.).
4. THE FLOOR FINISHES OVER THE FLOOR SLAB OF EL (+) 02'-07" MUST NOT INCREASE 6".
5. NO FLOOR FINISH ON THE SLOPING RC SLAB / WALLS BE PROVIDED ONLY WATER PROOFING COATING OR MEMBRANE WILL BE APPLIED AS PER THE CONTRACT SPEC.
6. WATER PROOFING COATING MUST BE APPLIED AS PER MS-SKA / MS-BAS OR EQUIVALENT AS PER THE CONTRACT SPECIFICATIONS. THE INNER SIDES OF RC TUB SHAPE STRUCTURE OPEN TO AIR.
7. DURING CONSTRUCTION, IT IS MANDATORY THAT THE RC TUB STRUCTURE SHOULD BE MADE IN A BALANCED WEIGHT FORM BY MAKING SURE THAT BOTH SIDES OF THE TUB BE MADE AT THE SAME TIME, SO THAT THE OVERALL STABILITY IS NOT COMPROMISED.
8. ALL CONSTRUCTION OF THE GATE TUB AND ADJACENT STRUCTURES TO BE EXECUTED IN A PRECISE SEQUENCE OF BALANCED WEIGHT OF STRUCTURE & STRUCTURAL COMPONENTS WITH STRICT INSTRUCTIONS FROM SITE ENGINEER RELATED TO OVERALL AND LOCAL STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
9. ALL CONSTRUCTION SEQUENCE STEPS MUST BE APPROVED BY THE SITE ENGINEER BEFORE EXECUTION (INCLUDING CONSTRUCTION WEIGHT AND STRUCTURE LOADS).
10. ALL CANTILEVER STRUCTURAL ARRANGEMENT INCLUDING BEAMS & SLABS MUST BE DONE KEEPING IN VIEW THE CAMBER CONSIDERATIONS OF DWG. 20021 OR AS DIRECTED BY THE SITE ENGINEER THE CONCRETE CURING MUST CONTINUE FOR AT LEAST 24 DAYS AND SUPPORTING SHUTTERING & SCAFFOLDING MUST BE PRESENT DURING CURING PERIOD.
11. AS PER SITE, SLIGHTLY ADJUSTED.
12. AS PER SPECIALTY ENGINEERING / ARCHITECTURE RECOMMENDATIONS.

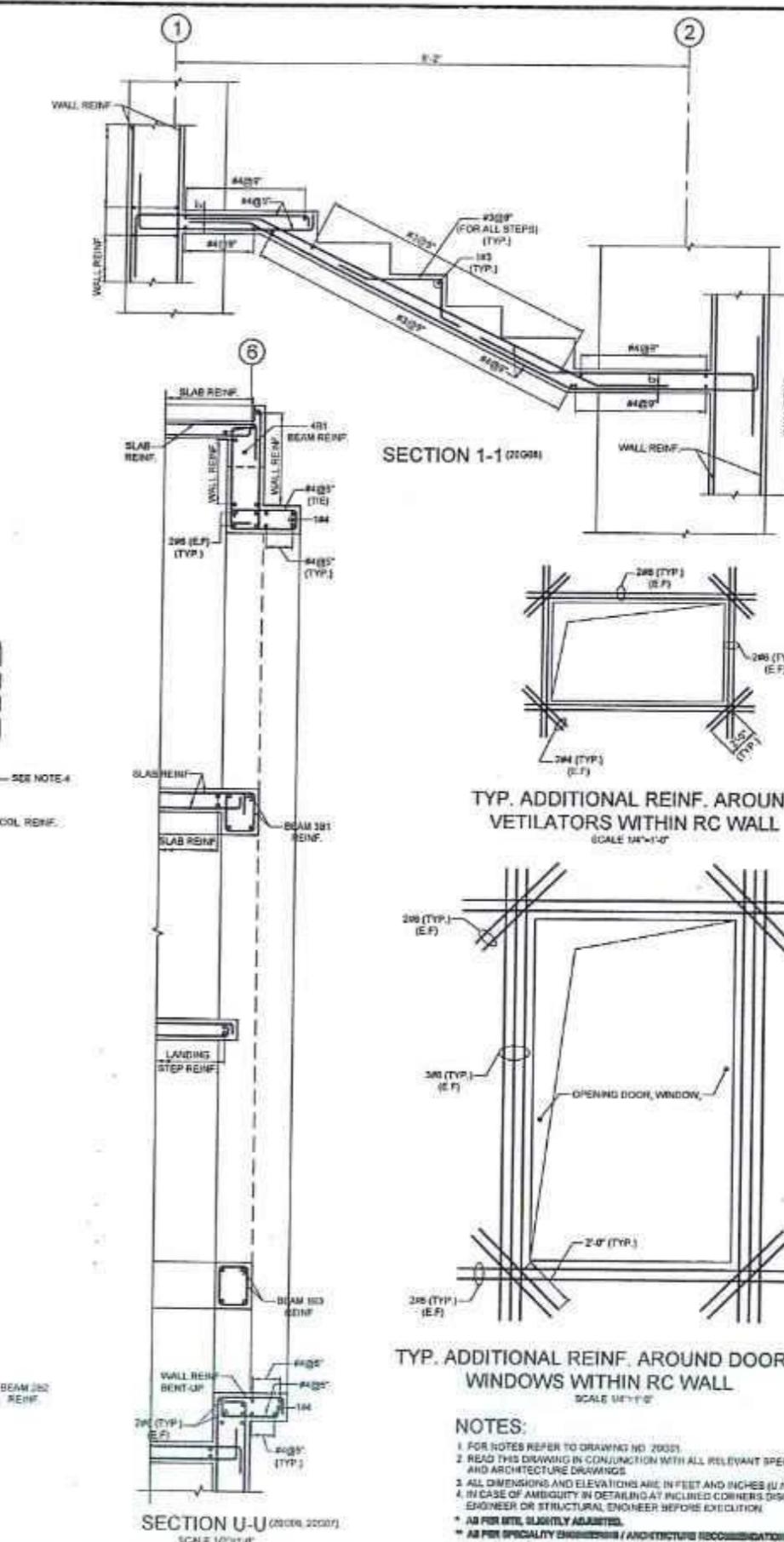
CLIENT	SPECIAL TECHNOLOGY ZONES AUTHORITY	CONSULTANT	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	4				5				6				7				8				9				10				11				12				13				14				15				16				17				18				19				20				21				22				23				24				25				26				27				28				29				30				31				32				33				34				35				36				37				38				39				40				41				42				43				44				45				46				47				48				49				50				51				52				53				54				55				56				57				58				59				60				61				62				63				64				65				66				67				68				69				70				71				72				73				74				75				76				77				78				79				80				81				82				83				84				85				86				87				88				89				90				91				92				93				94				95				96				97				98				99				100				101				102				103				104				105				106				107				108				109				110				111				112				113				114				115				116				117				118				119				120				121				122				123				124				125				126				127				128				129				130				131				132				133				134				135				136				137				138				139				140				141				142				143				144				145				146				147				148				149				150				151				152				153				154				155				156				157				158				159				160				161				162				163				164				165				166				167				168				169				170				171				172				173				174				175				176				177				178				179				180				181				182				183				184				185				186				187				188				189				190				191				192				193				194				195				196				197				198				199				200				201				202				203				204				205				206				207				208				209				210				211				212				213				214				215				216				217				218				219				220				221				222				223				224				225				226				227				228				229				230				231				232				233				234				235				236				237				238				239				240				241				242				243				244				245				246				247				248				249				250				251				252				253				254				255				256				257				258				259				260				261				262				263				264				265				266				267				268				269				270				271				272				273				274				275				276				277				278				279				280				281				282				283				284				285				286				287				288				289				290				291				292				293				294				295				296				297				298				299				300				301				302				303				304				305				306				307				308				309				310				311				312				313				314				315				316				317				318				319				320				321				322				323				324				325				326				327				328				329				330				331				332				333				334				335				336				337				338				339				340				341				342				343				344				345				346				347				348				349				350				351				352				353				354				355				356				357				358				359				360				361				362				363				364				365				366				367				368				369				370				371				372				373				374				375				376				377				378				379				380				381				382				383				384				385				386				387				388				389				390				391				392				393				394				395				396				397				398				399				400				401				402				403				404				405				406				407				408				409				410				411				412				413				414				415				416				417				418				419				420				421				422				423				424				425				426				427				428				429				430				431				432				433				434				435				436				437				438				439				440				441				442				443				444				445				446				447				448				449				450				451				452				453				454				455				456				457				458				459				460				461				462				463				464				465				466				467				468				469				470				471				472				473				474				475				476				477				478				479				480				481				482				483				484				485				486				487				488				489				490				491				492				493				494				495				496				497				498				499				500				501				502				503				504				505				506				507				508				509				510				511				512				513				514				515				516				517				518				519				520				521				522				523				524				525				526				527				528				529				530				531				532				533				534				535				536				537				538				539				540				541				542				543				544				545				546				547				548				549				550				551				552				553				554				555				556				557				558				559				560				561				562				563				564				565				566				567				568				569				570				571				572				573				574				575				576				577				578				579				580				581				582				583				584				585				586				587				588				589				590				591				592				593				594				595				596				597				598				599				600				601				602				603				604				605				606							



SECTION X-X

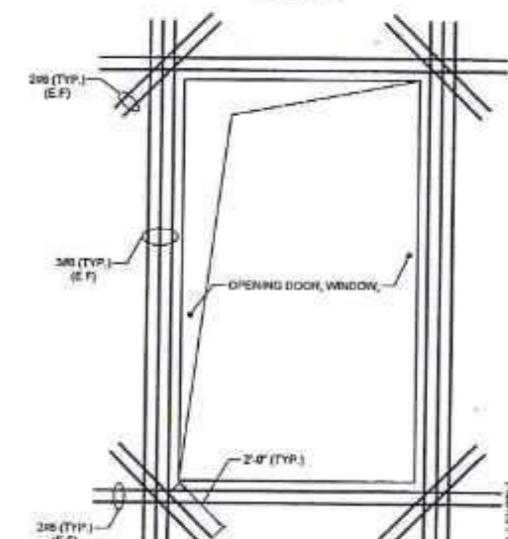


SECTION Z-Z



SECTION U-U (2008, 20007)
SCALE 1/2"=1'-0"

TYP. ADDITIONAL REINF. AROUND VENTILATORS WITHIN RC WALL
SCALE 1/4"=1'-0"



TYP. ADDITIONAL REINF. AROUND DOORS, WINDOWS WITHIN RC WALL
SCALE 1/4"=1'-0"

NOTES:

1. FOR NOTES REFER TO DRAWING NO. 20051.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT SPECIALTY ENGINEERING AND ARCHITECTURE DRAWINGS.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET AND INCHES (U.S.D.).
4. IN CASE OF AMBIGUITY IN DETAILING AT INCLINED CORNERS, DISCUSS WITH THE SITE ENGINEER OR STRUCTURAL ENGINEER BEFORE EXECUTION.
5. AS PER SITE, SLIGHTLY ADJUSTED.
6. AS PER SPECIALTY ENGINEER / ARCHITECTURE RECOMMENDATIONS.

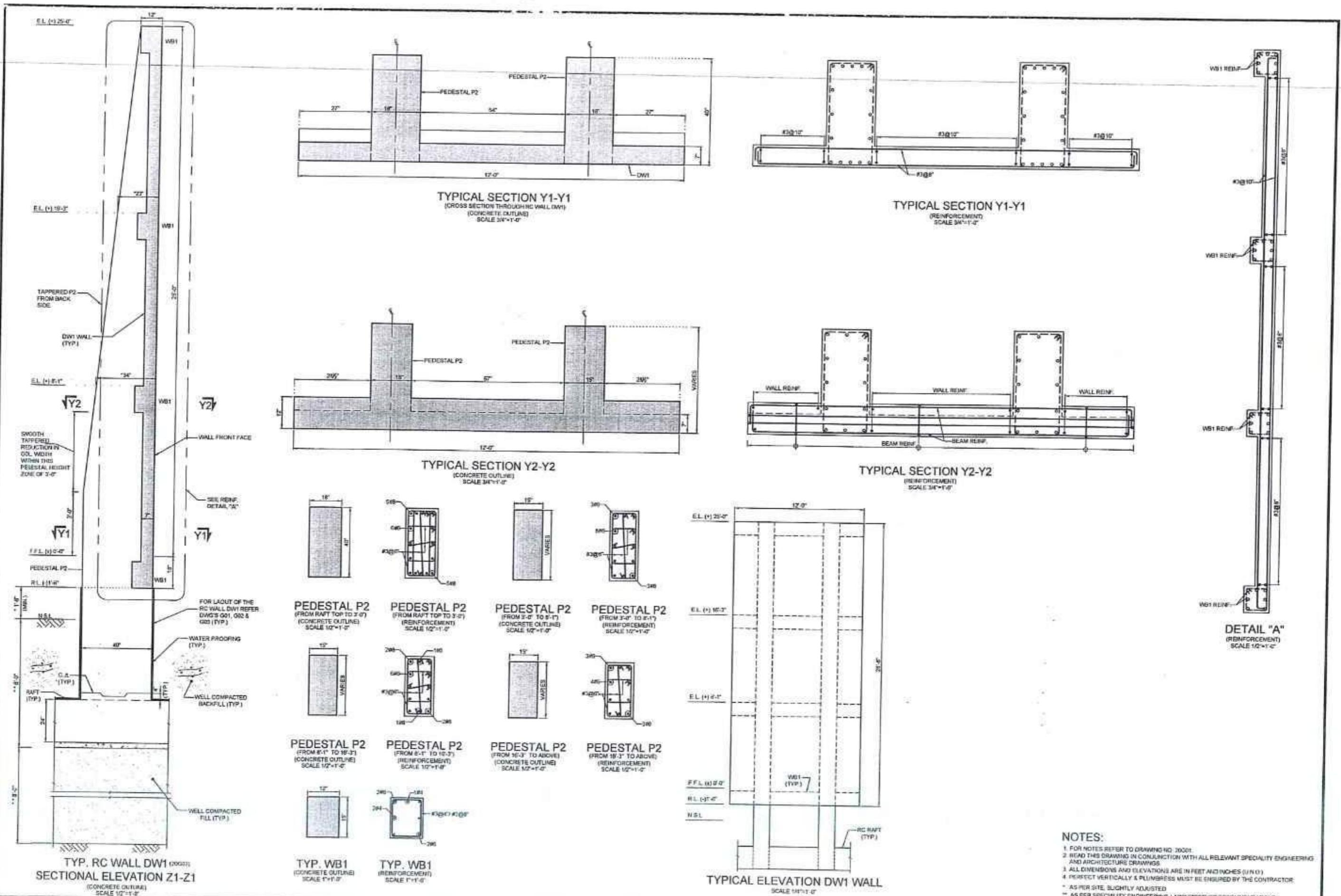
CLIENT
SPECIAL TECHNOLOGY
ZONES AUTHORITY

CONSULTANT
NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD.
HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N,
MODEL TOWN EXTENSION, LAHORE, PAKISTAN

4				DRAWN	AZAMFAIZANULLA
3				SUBMITTED	M.Q.
2				RECOMMENDED	H.M.
1	10.10.24	GENERAL REVISION DUE TO ARCH. CHANGES	✓	CHD/DR	A.R.
REV	DATE	DESCRIPTION	SUB	SH/DR	APPROVED

PROJECT
MASTER PLANNING, INFRASTRUCTURE
DESIGN, EIA AND CONSTRUCTION
SUPERVISION OF ISLAMABAD SPECIAL
TECHNOPOLIS

GATE HOUSE SECTIONS REINFORCEMENT			SCALE 1/2"=1'-0"
DATE	DRAWING NO.	REV	↑
JULY, 2024	4384/033/C/20G10		↑



CLIENT	CONSULTANT	PROJECT	TYPICAL DECORATIVE WALL DW1
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD SPECIAL TECHNOPOLIS	ELEVATIONS & SECTIONS
	HEAD OFFICE - NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.		CONCRETE OUTLINE & REINFORCEMENT
	REV. DATE DESCRIPTION SUB CHG APP APPROVED		DATE DRAWING No. OCT., 2024 4384/033/C/20G12
			SCALE 1/4"=1'-0"

ELECTRICAL DRAWINGS

GENERAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ITEMS OF BILL OF QUANTITIES AND TECHNICAL SPECIFICATION
2. THIS DRAWING SHALL BE COORDINATED WITH OTHER DISCIPLINES WORKS FOR ROUTING, SPACING AND INSTALLATIONS
3. THE MINIMUM SIZE OF THE PVC CONDUIT SHALL BE 25mm (1") DIA.
4. LIGHT CIRCUIT WIRING SHALL BE WITH 3x2.5 mm Sq & LIGHT POINT WIRING SHALL BE WITH 3x1.5 mm. Sq SINGLE CORE STRANDED CU, PVC CABLES
5. ALL POWER SOCKETS (15/20Amp) SHALL BE WIRED WITH 3x6mm. Sq LIGHT PLUG (10/13Amp) SOCKETS FIRST POINT SHALL BE WIRED WITH 3x4mm. Sq & 10Amp. SOCKETS POINT TO POINT WIRED WITH 3x2.5mm. Sq STRANDED CU. PVC CABLES
6. ALL SINGLE CORE WIRES SHALL HAVE THE FOLLOWING COLOURS:
PHASE WIRES..... RED, YELLOW & BLUE
NEUTRAL WIRES..... BLACK
C.P.C..... GREEN/YELLOW (AS PER B.O.Q)
7. THE WIRING SHALL BE STARTED ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES ETC. ARE FIXED IN THEIR POSITIONS.
8. ALL POWER/LIGHT PLUG SOCKETS WIRING SHALL BE SEGREGATED AND HAVE INDEPENDENT WIRES RIGHT FROM MINIATURE CIRCUIT BREAKERS IN DISTRIBUTION BOARD.
9. ACTUAL LOCATION OF ALL OUTLETS MUST BE VERIFIED BY THE CONTRACTOR SITE ENGINEER BEFORE INSTALLATION COMMENCES
10. THE MOUNTING HEIGHT OF THE SOCKET OUTLETS SHALL BE MINIMUM 300mm (FFL)
11. THE MOUNTING HEIGHT OF THE LIGHTING SWITCHES SHALL BE MINIMUM 1200mm (FFL)
12. NO LUBRICATION EXCEPT AS RECOMMENDED BY MANUFACTURER SHALL BE USED ON WIRES FOR REDUCING FRICTION. NO OIL OR SOAP OF ANY KIND WILL BE ALLOWED ON WIRES FOR THIS PURPOSE.
13. THE CONTRACTOR SHALL SUBMIT CONDUITS LAYOUT PLAN BASED UPON THE ELECTRIFICATION DRAWINGS FOR THE APPROVAL OF ELECTRICAL ENGINEER, BEFORE POURING OF ROOF SLABS, WALL AND COLUMNS.
14. ALL THE ELECTRICAL WORKS SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION
15. THE ELECTRICAL EQUIPMENT SHALL BE SUPPLIED FROM APPROVED MANUFACTURER AS PER APPLICABLE STANDARDS AND CODES

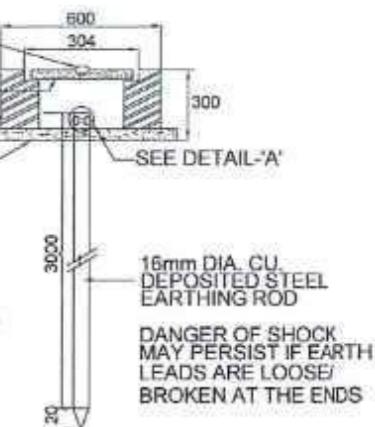
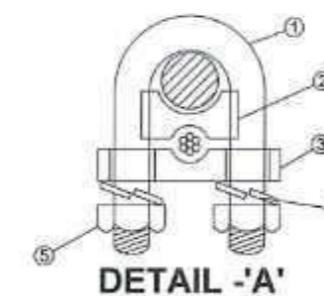
LEGEND

SYMBOL	DESCRIPTION
■	MAIN PANEL BOARD(MPB)
■■	SUB MAIN PANEL BOARD(SMPB)
■■■	DISTRIBUTION BOARD (DB)
✗	MOULDED CASE CIRCUIT BREAKER
Ⓐ	VOLTMETER
Ⓐ	AMMETER
Ⓐ	SELECTOR SWITCH
□	MAGNETIC CONTACTOR
□	CEILING FAN
□	WALL BRACKET FAN
□	EXHAUST FAN
✓	SINGLE POLE 1-WAY SWITCH
Ⓐ	15/20 AMP 3 PIN SINGLE PHASE, NEUTRAL & EARTH SWITCH SOCKET UNIT (AWAY FROM SWITCH BOARD)
Ⓐ	10/13 AMPS 3 PIN SINGLE PHASE SWITCH SOCKET UNIT (AWAY FROM SWITCH BOARD)

LIGHTING FITTINGS SCHEDULE

SYMBOL	DESCRIPTION
✚○	WALL BRACKET 18W LED LIGHT
○	RECESSED/SURFACE LED DOWN LIGHTER 18W
✚□	LED FLOOD LIGHT 120W INSTALLED ON 3 METER ARMPOLE
☒	LED GATE LIGHT 25W
△	LED PLANTER/PIKE LIGHT 9-10W

ROD TYPE EARTH
POINT DETAIL FOR DB,S



ITEM NO.	ITEM NAME	MATERIAL
1	U-BOLT	MILD STEEL
2	SPACER	CAST IRON
3	BASE	MILD STEEL
4	SPRING WASHER	CARBON STEEL
5	NUT	MILD STEEL

CLIENT	CONSULTANT	04	03	02	01	DRAWN	SA	PROJECT	LEGENDS, GENERAL NOTES AND ROD TYPE EARTHING DETAIL	SCALE
SPECIAL TECHNOLOGY ZONES AUTHORITY	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.					SUBMITTED		CONSULTANCY SERVICES FOR MASTER PLANNING, INFRASTRUCTURE DESIGN, EIA AND CONSTRUCTION SUPERVISION OF ISLAMABAD TECHNOPOLIS		
	HEAD OFFICE- NESPAK HOUSE, I-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE, PAKISTAN.	REV. DATE	DESCRIPTION	APPROVED	APPROVED	RECOMMENDED	CHO/VER.		DATE	DRAWING No:

