



# PAKISTAN INSTITUTE OF FASHION AND DESIGN

## INVITATION TO BIDS – CORRIGENDUM CONSTRUCTION OF MULTISTORIED GIRLS HOSTEL BUILDING Tender No.: PIFD/Tender/2024-25/050

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### Extension of Tender Submission Date

With reference to our advertisement titled *PIFD/Tender/2024-25/050*, published on the Pakistan Institute of Fashion and Design (PIFD) website ([www.pifd.edu.pk](http://www.pifd.edu.pk)) on **May 12, 2025**, wherein the closing date for submission was **May 22, 2025**, the following corrigendum is issued:

1. The last date for submission of bids has been **extended to May 26, 2025**.
  2. The **updated Request for Quotation (RFQ)**, including the **Bidding Documents, Bill of Quantities (BOQ)**, and **Tender Drawings**, is now attached herewith and is also available for download at [www.pifd.edu.pk](http://www.pifd.edu.pk).
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**PROJECT DIRECTOR (GIRLS HOSTEL)**  
**Pakistan Institute of Fashion and Design (PIFD)**  
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# PAKISTAN INSTITUTE OF FASHION AND DESIGN

## **CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

### **Bidding Document Volume-1 (Conditions of Contract)**

MAY, 2025

# **INVITATION FOR BIDS**



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## **Pakistan Institute of Fashion and Design, Lahore**

Dated: 9<sup>th</sup> May, 2025

No: PIFD/TENDER/202425/Notice-050

### **INVITATION FOR BIDS**

**Pakistan Institute of Fashion and Design (PIFD)**, Lahore, invites financial bids from Prequalified **Civil Work Contractors/Firms** for the Construction of Multistoried Girls Hostel Building (approximately 47,000 sq. ft.) at PIFD, Lahore in response to tender number “**PIFD/Tender/2024-25/050**” due on 26 March 2025.

- Tender document along with B. O. Qs, drawings etc. are available on the PIFD official Website ([www.pifd.edu.pk](http://www.pifd.edu.pk)) and may be downloaded.
- Tender Fee **Rs. 10,000/-** may be deposited online in the Bank Account, Account Title: PIFD, Account/IBAN #: PK36HABB0050397000268851, Bank Name: Habib Bank Limited (HBL) and its evidence should be enclosed with the Financial Proposal.
- Bidders are required to submit their sealed proposals duly completed in all respects along with **2% Earnest Money** in the form of **CDR** in favor of **Treasurer, PIFD Lahore** by **May 26<sup>nd</sup>, 2025** up to **11:00 AM**.
- Following document should also be enclosed with the proposal:
  - a. Valid License of Pakistan Engineering Council (**PEC**).
  - b. Registration Certificate with Federal Board of Revenue (**FBR**).
  - c. Registration Certificate with Punjab Revenue Authority (**PRA**).
  - d. Affidavit on e-stamp paper regarding “**No Blacklisting**” and “**No Litigation**”.
- Proposals will be opened on the same day i.e. **May 26<sup>nd</sup>, 2025 at 11:30 AM**.
- In the event of a holiday, the tender proceedings will be conducted on the next working day.
- Companies that are blacklisted or involved in litigation will not be considered.
- PIFD reserves the right to reject any or all bids in accordance with PPRA rules.

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# **INSTRUCTIONS TO BIDDERS**



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## **INSTRUCTIONS TO BIDDERS**

### **A. GENERAL**

#### **IB.1 Scope of Bid**

The Client “Pakistan Institute of Fashion and Design” intends to construct girls’ hostel for 160 students in Johar Town, Lahore.

Identification and number of contracts is PIFD/Tender/2024-25/050.

#### **IB.2 Source of Funds**

2.1 The Source of fund is the Higher Education Commission, Islamabad (PSDP Project)

#### **IB.3 Eligible Bidders**

3.1 This Invitation to Bid is open only to those Bidders who prequalified for the project “Construction of Multistoried Girls Hostel at Pakistan Institute of Fashion and Design, Lahore”.

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

4.1 Each bidder shall submit only one bid by himself. A bidder who submits or participates in more than one bid will be disqualified.

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

5.1 The Bidder shall bear all costs associated with the preparation and submission of their respective Bids and the Client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

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

6.1 The Bidders are advised to visit and examine the Site of Works and its surroundings and obtain 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.

6.2 The Bidders and any of their personnel or agents would be free to visit site for the purpose of such inspection, but only upon the express condition that the Bidders, their personnel and agents, will release and indemnify the Client, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.



## **B. BID DOCUMENTS**

### **IB.7 Documents Comprising the Bid**

- 7.1 The Bid Documents are those stated below, and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
1. Instructions to Bidders.
  2. Bidding Data Sheet.
  3. General Conditions of Contract, Part-I (GCC).
  4. Particular Conditions of Contract, Part-II (PCC).
  5. Specifications – Special Provisions.
  6. Specifications – Technical Provisions.
  7. Form of Bid & Appendices to Bid.
  8. Bill of Quantities (Appendix-D to Bid).
  9. Form of Bid Security.
  10. Form of Contract Agreement.
  11. Forms of Performance Security and Mobilization Advance Guarantee and Form of Indemnity Bond for Secured Advance
  12. 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 Bidders own risk. Pursuant to Clause IB.26, Bids which are not substantially responsive to the requirements of the Bid Documents will be rejected.

### **IB.8 Clarification of Bid Documents**

- 8.1 Any prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Client in writing at the Client's address indicated in the Invitation for Bids. The Client will respond to any request for clarification which he receives earlier than 7 days prior to the deadline for submission of bids.

### **IB.9 Amendment of Bid Documents**

- 9.1 At any time prior to the deadline for submission of Bids, the Client may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bid Documents pursuant to IB 7.1 hereof and shall be communicated in writing to all purchasers of the Bid Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Client.
- 9.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Client may extend the deadline for submission of Bids in accordance with Clause IB.20.

## **C. PREPARATION OF BIDS**

### **IB.10 Language**

- 10.1 The Bid and all correspondence and documents related to the Bid exchanged by a Bidder and the Client shall be in the bid language stipulated in the Bidding Data Sheet and



conditions of Particular Application. Supporting documents and printed literature furnished by the Bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the English language, in which case, for purposes of evaluation of the Bid, the English translation shall prevail.

**IB.11 Documents Accompanying the Bid**

- 11.1 The Bid shall be the Price Bid in single envelope, containing the documents listed in Bidding Data Sheet under the heading of IB 11.1 A & B respectively.
- 11.2 **Not applicable.**
- 11.3 **Not applicable.**



**IB.12 Bid Prices**

- 12.1 Unless stated otherwise in the Bid Documents, the Contract shall be for the whole of the Works as described in IB 1.1 hereof, based on the unit rates and / or prices submitted by the Bidder.
- 12.2 The Bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by a Bidder will not be paid for by the Client when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 12.3 All duties, taxes 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.

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

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees only.

**IB.14 Bid Validity**

- 14.1 Bids shall remain valid for the period stipulated in the Bidding Data Sheet after the Date of Bid Opening specified in sub-clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original Bid validity period, the Client may request that the Bidders extend the period of validity for a specified additional 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.15 in all respects.

**IB.15 Bid Security**

- 15.1 Each Bidder shall furnish, as part of his Bid, a Bid Security in the amount stipulated in the Bidding Data Sheet in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The Bid Security shall be, at the option of the bidder, in the form of CDR issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan in favor of the Client valid for a period 28 days beyond the Bid Validity date.
- 15.3 Any Bid not accompanied by an acceptable Bid Security/Earnest money shall be rejected by the Client as non-responsive.
- 15.4 The Bid securities of unsuccessful Bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 15.5 The Bid Security of the successful Bidder will be returned when the Bidder has furnished the required Performance Security and signed the Agreement.
- 15.6 The Bid Security may be forfeited:



- (a) If the bidder withdraws his bid except as provided in IB 22.1;
- (b) If the Bidder does not accept the correction of his Bid Price pursuant to IB 27.2 hereof; or
- (c) In the case of successful Bidder, if he fails within the specified time limit to:
  - (i) Furnish the required Performance Security, or
  - (ii) Sign the Agreement.

15.7 Bidder can apply for the Contract supported with Bid security specified in bidding data.

**IB.16 Alternate Proposals by Bidder**

- 16.1 Should any bidder consider that he can offer any advantages to the Client 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 Alternate 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 Price Bid shall be that which represents complete compliance with the Bidding Documents.
- 16.2 Alternate Proposal(s), if any, of the lowest evaluated responsive bidder only may be considered by the Client as the basis for the award of Contract to such bidder.

**IB.17 Pre-Bid Meeting**

- 17.1 The Client may, on his own motion 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 Bid Documents. The date, time and venue of pre-bid meeting, if convened, is as stipulated in the Bidding Data Sheet. All prospective Bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.
- 17.2 The Bidders are requested to submit questions, if any, in writing so as to reach the Client not later than one week before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting in shape of response to queries or suggestions of the bidders, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bid documents. Any modification of the Bid documents listed in IB 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Client exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a Bidder.

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

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bid Documents.



- 18.2 All appendices to Bid are to be properly completed and signed.
- 18.3 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the Bid may be rejected.
- 18.4 Each Bidder shall prepare by filling out the forms completely and without alterations one (1) original and number of copies, specified in the Bidding Data, of the documents comprising the Bid as described in Clause IB.7 and clearly mark them “ORIGINAL” and “COPY” as appropriate. In the event of discrepancy between them, the original shall prevail.
- 18.5 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the Bidding Data Sheet and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for un-amended printed literature, shall be signed or initialed by the person signing the bid.
- 18.6 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Letter of Price Bids, 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 a copy of the Bidding Documents as their file copy.

## **D. SUBMISSION OF BIDS**

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

- 19.1 Each Bidder shall submit his Bid as under:
  - (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
  - (b) The bid should comprise of documents listed in IB 11.1 (B) which shall be placed in separate envelopes in accordance with IB 11.1.
- 19.2 The envelopes shall;
  - (a) Be addressed to the Client at the address provided in the Bidding Data Sheet.
  - (b) Bear the name and identification number of the contract as defined in the Bidding Data Sheet, and;



- (c) Provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data Sheet.

19.3 In addition to the identification required in IB 19.2 hereof, the 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 envelope is not sealed and marked as above, the Client will assume no responsibility for the misplacement or premature opening of the Bid.

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

20.1 (a) Bids must be received by the Client at the address specified no later than the time and date stipulated in the Bidding Data Sheet

- (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.

(c) Where delivery of a Bid is by mail and the Bidder wishes to receive an acknowledgment of receipt of such Bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed Bid package.

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

20.2 The Client 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 Client and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

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

21.1 (a) Any Bid received by the Client after the deadline for submission of Bids prescribed in Clause IB.20 will be returned unopened to such Bidder.

- (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.

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

22.1 Any Bidder may modify or withdraw his Bid after Bid submission provided that written notice of the modification or withdrawal is received by the Client prior to the deadline for submission of Bidders.

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



envelopes additionally marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” as appropriate.

- 22.3 No Bid may be modified by a Bidder after the deadline for submission of Bids except in accordance with IB 22.1 and 27.2.
- 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 Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

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

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

- 23.1 The Client shall conduct the opening of Price Bids of all Bidders publicly in the presence of Bidders` representatives who choose to attend at the address, date and time specified by the Client. The Bidder`s representatives who are present shall be requested to sign a register evidencing their attendance.
- 23.2 All envelopes containing Price Bids shall be opened one at a time and the following read out and recorded:
- (a) The name of the Bidder;
  - (b) Whether there is a modification or substitution;
  - (c) The Bid Prices, including any discounts and alternative offers; and
  - (d) Any other details as the Client may consider appropriate.

Only Price Bids and discounts, read out and recorded during the opening of Price Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Price Bids.

### **IB.24 Process to be Confidential**

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid



evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. 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 Client's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas any bidder feeling aggrieved may lodge a written complaint not later than ten (10) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

#### **IB.25 Clarification of Bids**

- 25.1 To assist in the examination, evaluation and comparison of Bids, the Client may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Client in the evaluation of the Bids in accordance with Clause IB.28.
- 25.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Client's request for clarification, its bid may be rejected

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

- 26.1 Prior to the detailed evaluation of bids, the Client will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 26.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; ; (iv) Includes signed Integrity Pact where required as per clause IB.35 and (v) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Works; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Client's rights or the bidder's obligations under the Contract; (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids. Only substantially responsive bid shall be considered for further evaluation.
- 26.3 If a bid is not substantially responsive, it may not subsequently be made responsive by correction or withdrawal of the non-conforming material deviation or reservation. The Client may, however, seek confirmation/ clarification in writing or by email which shall be responded accordingly.

#### **IB.27 Correction of Errors**

- 27.1 Bids determined to be substantially responsive will be checked by the Client for any arithmetic errors. Errors will be corrected by the Client as follows:
- (a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and



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

27.2 The amount stated in the Letter of Price Bid will be adjusted by the Client 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 Bid Security shall be forfeited in accordance with IB 15.6(b) hereof.

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

28.1 The Client will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.

28.2 In evaluating the Bids, the Client will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows: -

- (a) Making any correction for errors pursuant to Clause IB.27
- (b) Excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Day work.
- (c) Making an appropriate adjustment for any other acceptable variation or deviation.

28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Bid evaluation.

28.4 If the Bid of the successful Bidder is seriously unbalanced in relation to the Client's estimate of the cost of work to be performed under the Contract, the Client may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Client may require that the amount of the Performance Security set forth in IB.32 be increased at the expense of the successful Bidder to a level sufficient to protect the Client against financial loss in the event of default of the successful Bidder under the Contract.

## **F. AWARD OF CONTRACT**

### **IB.29 Award**

29.1 Subject to Clauses IB.30 and IB.34, the Client will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to IB 29.2.



- 29.2 The Client, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in Bidder's capacities, may require the bidders to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons in writing. They shall form part of the records of that bid evaluation report

**IB.30 Client's Right to Accept any Bid and to Reject any or all Bids**

- 30.1 Notwithstanding Clause IB.29, the Client reserves the right to accept or reject any Bid, and 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 except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

**IB.31 Notification of Award**

- 31.1 Prior to expiration of the period of bid validity prescribed by the Client, the Client will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Client 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 "Contract Price").
- 31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, Client may have clarification meetings to get clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Client and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security, the Client will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

**IB.32 Performance Security**

- 32.1 The successful bidder shall furnish to the Client a Performance Security in the form and the amount stipulated in the Bidding Data Sheet and the Conditions of Contract within a period of 10 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of IB.32.1 or IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

**IB.33 Signing of Agreement**

- 33.1 Upon furnishing of acceptable Performance Security under the Conditions of Contract, formal Agreement between the Client and the successful bidder shall be executed.



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

The Client reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Client may in case of consistent poor performance of any Bidder as reported by the clients of the previously awarded contracts, inter-alia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

The Successful Contractor shall comply with and acquire all consents, approvals, permits and licenses applicable under the laws of Pakistan in relation to the performance of the work & services.

**IB.35 Integrity Pact**

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Federal / Provincial Government procurement contracts exceeding Rupees ten million.

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

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



# **BIDDING DATA SHEET**



**BD-1 TO BD-08**

**BIDDING DATA SHEET**

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

**Instruction to Bidders**

**Clause Reference**

**Clause IB-1:**

**Sub-Clause: 1.1 Name and address of the Client**

**Lt. Col (R) Abdullah Khan, Project Director (PIFD)**

51-J / III, Phase 2, Johar Town, Lahore

Telephone: +92 42-99232951-7

E-mail: [abdullah.khan@pifd.edu.pk](mailto:abdullah.khan@pifd.edu.pk)

Contact: 0333-6787975

**Summary of Works**

The work included in this Contract are as follows but not limited to these items only:

- Building Works
- Laying of water supply with allied utilities
- Laying of Sewerage Pipes with allied utilities
- Construction of Manholes
- Construction Retaining Walls
- Construction of Boundary wall
- Construction of overhead water tank
- Construction of underground water tank
- Construction of septic tank

**Clause IB-2: Source of Funds**

**Sub-Clause 2.1**

The Project is funded by Government of Pakistan (Higher Education Commission, Islamabad)

**Clause IB-10: Language of Bid**

**Sub-Clause 10.1**

English

**Clause IB-11: Documents Accompanying the Bid**

**Sub-Clause 11.1:**

The Bidder shall submit with its Bid the following documents:



(a) Bid Security	(IB.15)
(b) Letter of Price Bid	
(c) Bill of Quantities	Appendix-D
(d) Estimate Progress Payment	Appendix-J
<b>Clause IB-13: Currency of Bid and Payment:</b>	
<b>Sub-Clause 13.1</b> The unit rates and the prices shall be quoted by the Bidder entirely in Pakistani Rupees and likewise payments will also be made entirely in Pakistani Rupees.	
<b>Clause IB-14 Bid Validity:</b>	
<b>Sub-Clause 14.1 Period of Bid Validity</b> Ninety (90) Days	
<b>Clause IB-15 Bid Security</b>  The Bid Security shall be in an amount of Pak <b>Rupees @ 2%</b> of the bid cost.	
<b>Clause IB-16 Alternate Proposals by Bidders</b>  <b>NOT USED</b>	
<b>Clause IB-17 Pre-Bid Meeting</b>  <b>Sub-Clause 17.1 Venue, Time, and Date of the Pre-Bid Meeting</b> Pre-bid meeting for clarification of any query, applicant is required to send the queries at least 5 days prior to submission date on below venue: 51-J / III, Phase 2, Johar Town, Lahore Time: <u>1130</u> hours Date: <u>17-05-2025</u> .	



**Clause IB-18 Format and Signing of Bid**  
**Sub-Clause 18.4 Format and Signing of Bid**

**One original and One copy for Financial Bid.**

**Clause IB-19 Sealing and Making of Bid**

**Sub-Clause 19.2 (a) Client's address for the purpose of Bid Submission is as follows: -Project**

**Director (PIFD),**  
51-J / III, Phase 2, Johar Town, Lahore  
Telephone: +92 42-99232951-7  
E-mail: info@pifd.edu.pk

19.2 (b) Name and Number of the Contract is as follows: -  
Lt. Col (R) Abdullah Khan

Contract No. 0333-6787975

**Clause IB-20 Deadline for submission of Bid:**

**Sub-Clause 20.1 (a)**

Venue: 51-J / III, Phase 2, Johar Town, Lahore.  
Time: 1100 hours,  
Date: 22-05-2025

**Clause IB-23 Bid Opening:**

**Sub-Clause 23.1 (a) Venue, Time and Date of Bid Opening**

Venue: 51-J / III, Phase 2, Johar Town, Lahore  
Time: 1130 hours  
Date: 22-05-2025

**Clause IB-32 Performance Security:**

**Sub-Clause 32.1**

Delete the text sub-clause 32.1 and substitute with the following: -  
The Performance Security shall be 10% of Contract Amount mentioned in the Letter of Acceptance on the prescribed form [PS-1] in shape of Bank Guarantee from any Scheduled Bank in Pakistan in favor of the Client.



**FORM OF BID  
AND  
APPENDICES TO BID**



LTB-1

Letter of Technical Bid

Date:
Bid Reference No:
(Name of Contract/Works): .....

To: .....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (IB) 9;
(b) We offer to execute and complete in conformity with the Bidding Documents the following Works:
(c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of 90 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
(d) As security for due performance of the under takings and obligations of our bid, we submit here with a Bid security, in the amount specified in Bidding Data Sheet, which is valid (at least) 28 days beyond validity of Bid itself.
(e) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process, other than alternative offers submitted in accordance with IB16 (as applicable).
(f) We agree to permit Client or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.

Name .....

In the capacity of .....

Signed .....

.....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

.....

Address.....



## Letter of Price Bid

Date:  
 Bid Reference No:  
 (Name of Contract/Works): .....  
 To: .....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (IB)9;
- (b) The total price of our Bid, excluding any discounts offered in item (c) below is:
- (c) The discounts offered and the methodology for their application are:
- (d) Our Bid shall be valid for a period of ..... days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (f) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed and we do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
- (g) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (h) We agree to permit Client or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.
- (i) If awarded the contract, the person named below shall act as Contractor's Representative.

Name .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

Address.....

**SPECIAL STIPULATIONS****Clause****Conditions of Contract**

1.	Engineer's Authority to issue Variation in emergency	2.1	2% of the Contract Price stated in the Letter of Acceptance.
2.	Amount of performance Security	10.1	The Performance Security shall be 10% of Contract Amount mentioned in the Letter of Acceptance on the prescribed form [PS-1] in shape of Bank Guarantee from any Scheduled Bank in Pakistan in favor of the Client.
3.	Time for Furnishing Program	14.1	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third-Party Insurance	23.2	The amount of insurance taken out by the Contractor per occurrence with number of occurrences unlimited shall be as follows: a. Bodily injury (any one person) PKR 0.5 (Half Million (Max)) b. Fatal Case (any one person) PKR 01 (one million (Minimum)) c. Property Damages Depending upon nature of loss (100% of the Damage)
5.	Time for Commencement	41.1	Within 14 days from the date of receipt of Engineer's Notice to Commence which shall be issued within Seven (07) days after receipt of Letter of Acceptance.
6.	Time for Completion	43.1, 48.2	18 Months from the date of Commencement of the Project.
7.	a) Amount of Liquidated Damages	47.1	0.1 % of the Contract Price for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus	47.3	Not Applicable
8.	Defects Liability Period	49.1	365 days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	60.2	10% of the amount of Interim Payment Certificate.
10	Limit of Retention Money	60.2	05% of Contract Price stated in the Letter of Acceptance.
11	Minimum amount of Interim Payment Certificates (Running Bills)	60.2	Rs.20 Million excluding last two IPC's/FPC
12	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Client.	60.10	30 days
13	Compensation for delayed payment	60.10	Not Applicable
14	List of material	60.11 60.1(c)	NOT USED
15	Mobilization Advance (Interest Free)	60.12	5% of Contract Price stated in the Letter of Acceptance in Shape of Bank Guarantee from any Scheduled Bank in Pakistan



**B-1**  
**Appendix-B to Bid**

**FOREIGN CURRENCY REQUIREMENTS**

**NOT USED**



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

**A. Formula for Price Adjustment**

1. The formula mentioned below is in its generalized form. The Employer/ user shall determine the proportions of A, b, c, d, by appropriate rate analysis following the procedure enumerated herein below:

$$P_n = A + b \frac{L_n}{L_o} + c \frac{M_n}{M_o} + d \frac{E_n}{E_o} + \dots$$

where,

“Pn” is the Price Adjustment factor for the work carried out in the period “n”.

“A” is a constant or the Non-Adjustable Portion of the Price Adjustment Factor to be specified in Appendix-C to Bid, representing the Non-Adjustable Portion of the Contract Price.

“b, c, d.....” are Coefficients or weightages of the order of 0.xx (i.e., fractions rounded off to two decimals) for each specified element of adjustment in the Contract.

The sum of A, b, c, d, etc., shall be one.

“Lo, Mo, Eo.....” are the Base Date Prices/ Indices for the specified (adjustable) elements.

“Ln, Mn, En.....” are the Current Date Prices/ Indices of the specified (adjustable) elements for the period “n”.

If “P” is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period “n” then, Adjusted amount payable to the Contractor for the work carried out in the period “n” shall be equal to Pn×P.

For the purpose of calculating Pn, the coefficient for each eligible element shall be used irrespective of the actual constituents of the work performed during the billing period.



formula under Clause 70 shall be as follows:

(To be filled by the Client)

<b>Cost Element</b>	<b>Description</b>	<b>Weightages</b>	<b>Applicable index</b>
1	2	3.0	4
(i)	Fixed Portion	0.427	
(ii)	Local Labor	0.150	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.068	“ “ “
(iv)	Reinforcing Steel	0.214	“ “ “
(vi)	High Speed Diesel (HSD)	0.120	“ “ “
(vii)	Bricks	0.020	“ “ “
	Total	1	

**Notes:**

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

(Clients using this price adjustment provisions may add or delete any elements as deemed appropriate to the project.)



## BILL OF QUANTITIES

### A. Preamble

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

The contractor will also provide the submittals of imported items as stated above. Pre-shipment inspection of the

selected manufacturer's equipment will be carried out as per G.C.C 37.2 & P.

14.1 by the engineer/client. Contractor must submit Bill of lading of such imported equipment prior to transport to site.

Work program of level three must be submitted to Engineer/client along with submittal





**BILL OF QUANTITIES**

**SUMMARY  
ABSTRACT OF TENDER PRICE**

	Amount (Rs.)
Total Tender Cost	_____

Note: All Provisional Sums are to be expended in whole or in part at the direction and discretion of the Engineer in accordance with sub Clauses 52.4 and 58.2 of the General Conditions Part-1.



**PROPOSED CONSTRUCTION SCHEDULE**

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid his Construction Schedule in the Bar Chart form 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 and parts of the works may meet Client’s completion targets in days noted below and counted from the date of issue of Engineer’s Notice to Commence (Bidder to attach sheets as required for the specified form of Construction Schedule):

<b><u>Description</u></b>	<b><u>Time for Completion</u></b>
a) Whole Works	_____ days
b) Part-A	_____ days
c) Part-B	_____ days
d) _____	_____ days
e) _____	_____ days



**METHOD OF PERFORMING THE WORK**

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

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization at site of works, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for Storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.
4. Quality control/ Quality assurance measures to be adopted including procedures to be followed for carrying out all tests required under specifications.



**G-1**  
**Appendix-G to Bid**

**LIST OF MAJOR EQUIPMENT – RELATED ITEMS**

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

**LIST OF MAJOR EQUIPMENT**

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



### **CONSTRUCTION CAMPS AND HOUSING FACILITIES**

The Contractor in accordance with Clause 34 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

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

The Tenderer 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) 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.)



**LIST OF SUBCONTRACTORS**

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

Enclosed are documentation outlining experience of sub-contractors, 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.

<b>Part of Works (Give Details)</b>	<b>Sub-Contractor (With Complete Address</b>
<b>1</b>	<b>2</b>





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



**(INTEGRITY PACT)**  
**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.**  
**PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN**  
**CONTRACTS WORTH RS 10.00 MILLION OR MORE**

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_  
Contract Value: \_\_\_\_\_  
Contract Title: \_\_\_\_\_

.....[Name of Supplier] 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 owned or controlled by GoP through any business practice.

Without limiting the generality of the foregoing, [name of Supplier] 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 from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] 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 Supplier] 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 Supplier] 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 Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever from GoP.

Name of Client:.....

Name of Contractor:.....

Signature:.....

Signature: .....



**Eligibility Criteria**

**NOT USED**



Qualification Criteria

**NOT USED**





# **FORMS**

**BID SECURITY  
PERFORMANCE SECURITY  
CONTRACT AGREEMENT  
MOBILIZATION ADVANCE GUARANTEE/BOND**



BS-

**BID SECURITY  
(Bank Guarantee)**

Security Executed on \_\_\_\_\_  
(Date)

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

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

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

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

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at their quest of the said Principal (Bidder)we, the Surety above named, are held and firmly bound unto \_\_\_\_\_

(hereinafter called the 'Client') 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 Bid No. \_\_\_\_\_ for \_\_\_\_\_ (Particulars of Bid) to the said Client; and

WHEREAS, the Client has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Client, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Client, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Client after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract



**BS-2**

Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Client pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said Client 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 maybe required, upon the form prescribed by the said Client for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

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

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

<p>WITNESS:</p> <p>1. _____ _____</p> <p>Corporate Secretary (Seal)</p> <p>2. _____ _____</p> <p>Name, Title &amp; Address</p>	<p>SURETY (Bank)</p> <p>Signature _____</p> <p>Name _____</p> <p>Title _____</p> <p>Corporate Guarantor (Seal)</p>
--	--



PS-1

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

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_  
Expiry date \_\_\_\_\_

[Letter by the Guarantor to the Client]

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

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

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

Letter of Acceptance No. \_\_\_\_\_ Dated \_\_\_\_\_

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 Client) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Client, 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 Client'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 Client, 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;



**PS-2**

otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

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

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Client without delay upon the Client's first written demand without cavil or arguments and without requiring the Client to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Client'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 Client's designated Bank & Account Number.

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

Witness:

1. \_\_\_\_\_

Signature \_\_\_\_\_

Corporate Secretary (Seal)

Name \_\_\_\_\_

Title \_\_\_\_\_

2. \_\_\_\_\_

Name, Title & Address

\_\_\_\_\_  
Corporate Guarantor (Seal)



**FORM OF CONTRACT AGREEMENT**

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the \_\_\_\_\_ day of \_\_\_\_\_(month) 2017 between \_\_\_\_\_ (hereafter called the “Client”) of the one part and \_\_\_\_\_ (hereafter called the “Contractor”) of the other part.

WHEREAS the Client 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 witnesses as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda / Clarification as agreed or otherwise, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Contract, viz:
  - (a) The Contract Agreement;
  - (b) The Letter of Acceptance;
  - (c) The completed Form of Bid;
  - (d) Special Stipulations (Appendix-A to Bid);
  - (e) The Particular Conditions of Contract – Part II;
  - (f) The General Conditions – Part I;
  - (g) The priced Bill of Quantities (Appendix-D to Bid);
  - (h) The completed Appendices to Bid (B, C, E to O);
  - (i) The Drawings;
  - (j) The Specifications.
  - (k) \_\_\_\_\_ (any other)
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
3. The Client 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 the Contactor

Signature of Client

\_\_\_\_\_  
(Seal)

\_\_\_\_\_  
(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

\_\_\_\_\_

\_\_\_\_\_

(Name, Title and Address)

(Name, Title and Address)



**MOBILIZATION ADVANCE GUARANTEE/BOND**

Guarantee No. \_\_\_\_\_ Date \_\_\_\_\_

WHEREAS \_\_\_\_\_ (hereinafter called the 'Client') has entered into a Contract for  
\_\_\_\_\_  
(Particulars of Contract)  
with \_\_\_\_\_ (hereinafter called the "Contractor").

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

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

AND WHEREAS, \_\_\_\_\_  
(Scheduled Bank in Pakistan or Insurance Company acceptable to the Client)  
(Hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Client 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 Client for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Client shall be the sole and final judge, on the part of the Contractor, shall be given by the Client 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)



**MG-2**

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

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

**GUARANTOR**

1. Signature \_\_\_\_\_
2. Name \_\_\_\_\_
3. Title \_\_\_\_\_

**WITNESS**

1. \_\_\_\_\_  
\_\_\_\_\_  
Corporate Secretary (Seal)

2. \_\_\_\_\_  
(Name Title & Address)

\_\_\_\_\_  
Corporate Guarantor(Seal)



IB-1

**INDEMNITY BOND  
FOR SECURED ADVANCE  
AGAINST MATERIALS BROUGHT AT SITE**

(ON RS.40 NON JUDICIAL STAMP PAPER)

This Deed of Indemnity is issued by M/s. \_\_\_\_\_  
\_\_\_\_\_ (Name of the Contractor) in favour  
of M/s. \_\_\_\_\_ (Name of the Client).

**Whereas** \_\_\_\_\_ (hereinafter called the Client) has paid the Secured Advance against the cost of material through any Bank or like agency by any other method by virtue of the terms of the contract existing between the parties. The details of the material and their price for which secured advance is being sought for the period \_\_\_\_\_ till consumption of the material is as under:-

1. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
2. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
3. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
4. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.

**THEREFORE, THIS DEED OF INDEMNITY WITNESSETH AS FOLLOWS:**

I/We \_\_\_\_\_ of M/s. \_\_\_\_\_ do hereby indemnify M/s \_\_\_\_\_ for all losses due to thefts, arson, pilferage, loss due to flood and inundation, shortage, deterioration and depreciation etc. through any act of Man or God or slump in the Market of any or all the materials financed or paid by the Client on our request for financing payment against material.

I/We \_\_\_\_\_ shall indemnify \_\_\_\_\_ against any or all claims, action damages arising out of or resulting to the said material.

I/We \_\_\_\_\_ further declare that we will faithfully abide by the above declaration and solemnly affirm that we will not remove, sell, pilferage any of the materials against which M/s \_\_\_\_\_ has paid us such a secured advance and will not pledge the same with any Bank, Finance Corporation, Firm, Company, Individual or the like agency or create any change whereon in any from what so ever.

I/We \_\_\_\_\_ do hereby also declare that in the event of my/our infringement of the declaration made above



**IB-2**

\_\_\_\_\_ will be entitled to forfeit all such material and also proceed against me/us according to the relevant clause pertaining to breach of contract and further invoke the power or seek any remedies secured of \_\_\_\_\_ under the contract Agreement signed with us or otherwise

available under law.

Place \_\_\_\_\_ Dated \_\_\_\_\_

Contractor \_\_\_\_\_



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## **GENERAL CONDITIONS OF CONTRACT**

The General Conditions of Contract (GCC) will be the “Conditions of Contract for Works of Civil Construction, Part-1 General Conditions” Fourth Edition (1987) Reprinted in 1988 with editorial amendments, Reprinted in 1992 with further amendments published by the Federation International Des Ingénieurs-Conseils (FIDIC). **These are not reproduced here in this document. Bidders must obtain One copy of the above mentioned Conditions of Contract after award of contract at bidder’s own expense.**



**FEDERATION INTERNATIONALE DES INGENIEURS-  
CONSEILS**

**CONDITIONS OF CONTRACT**

**FOR WORKS OF CIVIL**

**ENGINEERING CONSTRUCTION**

**PART I GENERAL CONDITIONS**

**WITH FORMS OF TENDER AND AGREEMENT**

FOURTH EDITION 1987

Reprinted 1988 with editorial amendments

Reprinted in 1992 with further amendments



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## PART II - PARTICULAR CONDITIONS OF CONTRACT

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The particular conditions shall complement, amend, or supplement the provisions in the General Conditions of Contract. Wherever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract

### 1.1 Definitions

(a) (i) The Client is **Project Director (PIFD), 51-J/III, Phase-2, Johar Town, Lahore.**

(a) (iv) The Engineer is Civil **Engineer of PIFD Lahore** or any other competent person appointed by the Client, and notified to the Contractor, to act in replacement of the Engineer. The shall be professional engineers as defined in Pakistan Engineering Council Act (V of 1976)

The following paragraph is added:

(a)(vi) “Bidder or Tenderer” means any person or persons, company, corporation, firm or joint venture submitting a Bid or Tender.

The following is added at the end of the paragraph:

(b)(v) The word “Tender” is synonymous with “Bid” and the word “Tender Documents” with “Bidding Documents”.

The following paragraph is added:

(b)(ix) “Program” means the program to be submitted by the Contractor in accordance with Sub-Clause 14.1 and any approved revisions thereto.

The text is deleted and substituted with the following:

(e)(i) “Contract Price” means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions therefrom as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

### 2.1 Engineer's Duties and Authority

With reference to Sub-Clause 2.1(b), the following provisions shall also apply;

The Engineer shall obtain the specific approval of the Client before carrying out hisduties in accordance with the following Clauses:

- (i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.1 “Subcontracting”.
- (ii) Certifying additional cost determined under Sub-Clause 12.2 “Not Foreseeable Physical Obstructions or Conditions”.
- (iii) Any action under Clause 10 “Performance Security” and Clauses 21,23,24 & 25 “Insurance” of sorts.



- (iv) Any action under Clause 40 “Suspension”.
- (v) Any action under Clause 44.1 “Extension of Time for Completion”.
- (vi) Any action under Clause 47 “Liquidated Damages for Delay” or Payment of Bonus for Early Completion of Works (PCC Sub-Clause 47.3).
- (vii) Issuance of “Taking Over Certificate” under Clause 48.
- (viii) Issuing a Variation Order under Clause 51, except:
  - a) in an emergency\* situation, as stated here below, and
  - b) if sum of all such variations during the contract period would increase the Contract Price by less than the amount stated in the Appendix-A to Bid..
- (ix) Fixing rates or prices under Clause 52.
- (x) Extra payment as a result of Contractor’s claims under Clause 53.
- (xi) Release of Retention Money to the Contractor under Sub-Clause 60.3 “Payment of Retention Money”.
- (xii) Issuance of “Final Payment Certificate” under Sub-Clause 60.8.
- (xiii) Issuance of “Defect Liability Certificate” under Sub-Clause 62.1.

If in the opinion of the Engineer an emergency occurs affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities 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 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 52 and shall notify the Contractor accordingly, with a copy to the Client.

## **2.2 Engineer’s Representative**

The following paragraph is added:

The Client shall ensure that the Engineer’s Representative is a professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976).

The following Sub-Clauses 2.7 and 2.8 are added:

## **2.7 Engineer Not Liable**

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any



decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

## **2.8 Replacement of the Engineer**

“If the Client intends to replace the Engineer, the Client shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant experience of the intended replacement Engineer. The Client shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Client, with supporting particulars.”

## **4.1 Subcontracting**

The following text is added at the end of this sub-clause:

The Contractor, with prior consent of Engineer/Client, may sub-contract only part thereof, not as a whole of the Works to the nominated Sub-Contractor. The limit for sub-contract must be less than 30% of the whole of the Works whether nominated subcontractor(s) is single or multiple.

## **5.1 Language(s) and Law**

- (a) The Contract Documents, shall be drawn up in the English language.
- (b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

## **5.2 Priority of Contract Documents**

The documents listed at (1) to (6) of the Sub-Clause are deleted and substituted with the following:

- (1) The Contract Agreement (if completed);
- (2) The Letter of Acceptance;
- (3) The completed Form of Bid;
- (4) Special Stipulations (Appendix-A to Bid);
- (5) The Particular Conditions of Contract – Part II;
- (6) The General Conditions – Part I;
- (7) The priced Bill of Quantities (Appendix-D to Bid);
- (8) The Drawings;
- (9) The Specifications
- (10) The completed Appendices to Bid (B, C, E to O);and
- (11)\_\_\_\_(any other).

In case of discrepancies between drawings, those of larger scale shall govern unless they are superseded by a drawing of later date regardless of scale. All Drawings and Specifications shall be interpreted in conformity with the Contract and these Conditions. Addendum, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

The following Sub-Clauses 6.6 and 6.7 are added:



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

## **6.7 As-Built Drawings**

At the completion of the Works under the Contract, the Contractor shall furnish to the Engineer 6 copies and one reproducible of all drawings amended to conform with the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price.

## **8.1 Contractor's Obligations**

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

The Contractor shall be responsible for the provision of site facilities to Engineer/Client's Staff at his own cost considering the said amount is included in all items listed in Bill of Quantities. Provision of facilities shall include a furnished site office with office equipment, stationary, utilities and vehicles for daily routine inspection of Engineer/Client as stated in Clause SP-20 of Special Provisions.

## **10.1 Performance Security**

The text is deleted and substituted with the following:

The Contractor shall provide Performance Security to the Client in the prescribed form as attached at Annexure PS-1. The said Security shall be furnished or caused to be furnished by the Contractor within 14 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount mentioned in Appendix A to Bid . Performance Security shall be in the form of either (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan.

The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

The following Sub-Clause 10.4 is added:

## **10.4 Performance Security Binding on Variations and Changes**

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.



---

#### **14.1 Programme to be Submitted**

The programme shall be submitted within the time stated in Appendix-A to bid, which shall be in the form of a bar chart identifying the critical activities prepared on a software approved by the Engineer.

The following text is added at the end of this sub-clause:

In case of non-submission of Programme by the Contractor on each event of requirement by the Engineer/Client, a penalty of Rs. 100,000/- shall be imposed on contractor. Such penalty shall be deducted by the Engineer/Client from the monies due or to become due to the Contractor, or recover the same as a debt due from the Contractor..

#### **14.2 Revised Programme**

The following text is added at the end of this sub-clause:

The Contractor shall submit to the Engineer for Approval an updated program at intervals no longer than 90 days or when instructed by the Engineer. If the contractor does not submit an updated program within this period, the Engineer shall impose a penalty of PKR 100,000 on every such occurrence. The Client may deduct the penalty from payments due to the contractor. Payment of this penalty shall not affect the contractor's liabilities.

#### **14.3 Cash Flow Estimate to be Submitted**

The detailed Cash Flow Estimate shall be submitted within 14-days from the date of receipt of Letter of Acceptance. Cash flows should be based on Programme and should be in such detail as to enable the Client to arrange Funds.

The following Sub-Clause 14.5 is added:

#### **14.5 Detailed Programme and Monthly Progress Report**

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
  - (1) Execution of Works;
  - (2) Labour Employment;
  - (3) Local Material Procurement;
  - (4) Material Imports, if any; and
  - (5) Other details as required by the Engineer.
  
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8<sup>th</sup> day of the following month, 10 copies each of Monthly Progress Reports covering:
  - (1) A Construction Schedule indicating the monthly progress in percentage;
  - (2) Description of all work carried out since the last report;
  - (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
  - (4) Monthly summary of daily job record;



- (5) Photographs to illustrate progress; and
  - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- (c) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

The Contractor shall submit his programme for execution of the Works in accordance with Clause 14.1 [*Programme to be Submitted*] which may contain adjustments if any, to the CPM (Critical Path Method) based Bar Chart submitted with the Bid. The completion date, milestones, and key targets, or dates earlier than the said milestone and key target dates, shall be shown on the construction programme to be submitted by the Contractor. The programme must be submitted in the form of hard copies as well as soft copies in shape of files having extensions like \*XER. OR \*MPP. Only.

The initial submittal of network analysis shall include a description of the major construction activities. The Bar Chart and the Network Analysis shall be submitted within 14 days after receipt of the Letter of Acceptance.

Monthly submittals shall show completed progress of each activity during the past month, with forecast for the coming month.

If the Contractor fails to submit the Monthly Progress Reports (in hard copies as well as soft copies having file extension like \*XLSX. OR \*DOCX. Only) along with the Photographs of site to illustrate progress, then he will be fined with an amount of Rs.50,000/- each month which would be deducted by the Engineer/Client from the monies due or to become due to the Contractor, or recover the same as a debt due from the Contractor.

The following Sub-Clauses 15.2 and 15.3 are added:

#### **15.2 Language Ability of Contractor's Representative**

The Contractor's authorised representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

#### **15.3 Contractor's Representative**

The Contractor's authorised representative and his other professional engineers working at Site shall be professional engineers as defined in Pakistan Engineering Council Act (V of 1976)

The Contractor's authorised representative at Site shall be authorised to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.



### **16.1 Contractor's Employees**

The following text is added as the last paragraph of this clause:

The Contractor shall appoint regular whole time at least following technical staff for proper execution / management of works. The staff shall be mobilized at site within 20 days after the date of issuance of letter of acceptance or before the date of commencement of work at site, whichever is the earlier.

Project Manager: B.Sc. Civil Engineer with Min. 10 years relevant experience.

Planning Engineer: B.Sc. Engineer with Min. 05 years relevant experience

Material Engineer: B.Sc. Engineer with Min. 05 years relevant experience

Site Supervisors: DAE with Min. 05 years relevant experience

Surveyor: DAE with Min. 05 years relevant experience

Quantity Surveyor: DAE with Min. 08 years relevant experience

The Contractor will ensure the presence of his staff at site. In case contractor fails to appoint full time Project Manager at site, a penalty of PKR 100,000 will be imposed on monthly basis and in case contractor fails to appoint full time other supporting staff mentioned above (other than Project Manager) at site, a penalty of Rs. 50,000/- will be imposed on monthly basis.

The following Sub-Clauses 16.3 and 16.4 are added:

### **16.3 Language Ability of Superintending Staff of Contractor**

A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English language. If the Contractor's superintending staff are not fluent in English language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

### **16.4 Employment of Local Personnel**

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan.

The following Sub-Clauses 19.3 and 19.4 are added:

### **19.3 Safety Precautions**

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 authorise 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 make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from time to time prescribe.



#### 19.4 Lighting Work at Night

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's Representative.

#### 20.4 Client's Risks

The Client's risks are:

Delete the text and substitute with the following:

- (a) insofar as they directly affect the execution of the Works in Pakistan:
  - (i) war and hostilities (whether war be declared or not), invasion, act of foreign enemies,
  - (ii) rebellion, revolution, insurrection, or military or usurped power, or civil war,
  - (iii) ionizing radiations, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
  - (iv) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
  - (v) riot, commotion or disorder, unless solely restricted to the employees of the Contractor or of his Subcontractors and arising from the conduct of the Works;
- (b) loss or damage due to the use or occupation by the Client of any Section or part of the Permanent Works, except as may be provided for in the Contract;
- (c) loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible; and
- (d) any operation of the forces of nature (insofar as it occurs on the Site) which an experienced contractor:
  - (i) could not have reasonably foreseen, or
  - (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:
    - (a) prevent loss or damage to physical property from occurring by taking appropriate measures, or
    - (b) Insure against.

#### 21.1 Insurance of Works and Contractor's Equipment

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

The amount of insurance taken out by the Contractor per occurrence with number of occurrences unlimited shall be as follows:

- d. Bodily injury (any one person) PKR 0.5 (Half) Million (Max)



- 
- |                                |  |
|--------------------------------|--|
| e. Fatal Case (any one person) | PKR 01 (one) million (Minimum)                     |
| f. Property Damages            | Depending upon nature of loss (100% of the Damage) |

Contractor shall obtain above insurances after consent of Engineer/Client. Insurance Company must be AA rated from PACRA. Contractor will not be paid separately for such insurances keeping in view that contractor has quoted his rates in Bill of quantities by applying such kind of expanses.

#### **21.4 Exclusions**

The text is deleted and substituted with the following:

There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by the risks listed under Sub-Clause 20.4 paras (a) (i) to (iv).

The following Sub-Clause 25.5 is added:

#### **25.5 Insurance Company**

The Contractor shall be obliged to place all insurances relating to the Contract (including, but not limited to, the insurances referred to in Clauses 21, 23 and 24) with either National Insurance Company of Pakistan or any other insurance company operating in Pakistan and acceptable to the Client.

Costs of such insurances shall be borne by the Contractor.

The following Sub-Clause 31.3 is added:

#### **31.3 Co-operation with other Contractors**

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Client at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors.

The following Sub-Clauses 34.2 to 34.12 are added:

#### **34.2 Rates of Wages and Conditions of Labour**

The Contractor shall pay rates of wages and observe conditions of labour not less favourable than those established for the trade or industry where the work is carried out. In the absence of any rates of wages or conditions of labour so established, the Contractor shall pay rates of wages and observe conditions of labour which are not less favourable than the general level of wages and conditions observed by other clients whose general circumstances in the trade or in industry in which the Contractor is engaged are similar.

#### **34.3 Employment of Persons in the Service of Others**



The Contractor shall not recruit his staff and labour from amongst the persons in the services of the Client or the Engineer; except with the prior written consent of the Client or the Engineer, as the case may be.

#### **34.4 Housing for Labour**

Save insofar as the Contract otherwise provides, the Contractor shall provide and maintain such housing accommodation and amenities as he may consider necessary for all his supervisory staff and labour, employed for the purposes of or in connection with the Contract including all fencing, electricity supply, sanitation, cookhouses, fire prevention, water supply and other requirements in connection with such housing accommodation or amenities. On completion of the Contract, these facilities shall be handed over to the Client or if the Client so desires, the temporary camps or housing provided by the Contractor shall be removed and the Site reinstated to its original condition, all to the approval of the Engineer.

#### **34.5 Health and Safety**

Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements.

#### **34.6 Epidemics**

In the event of any outbreak of illness of an 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 purpose of dealing with and overcoming the same.

#### **34.7 Supply of Water**

The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

#### **34.8 Alcoholic Liquor or Drugs**

The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.

#### **34.9 Arms and Ammunition**

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

#### **34.10 Festivals and Religious Customs**



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The Contractor shall in all dealings with his staff and labour have due regard to all recognised festivals, days of rest and religious and other customs.

#### **34.11 Disorderly Conduct**

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst staff and labour and for the preservation of peace and protection of persons and property in the neighbourhood of the Works against the same.

#### **34.12 Compliance by Subcontractors**

The Contractor shall be responsible for compliance by his Subcontractors of the provisions of this Clause.

The following Sub-Clauses 35.2 and 35.3 are added:

#### **35.2 Records of Safety and Health**

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

#### **35.3 Reporting of Accidents**

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

#### **36.1 Quality of Materials, Plants and Workmanship**

The following text is added at the end of last paragraph:  
Contractor shall make arrangements for the establishment of Material Testing Laboratory at site and for the facilities to be provided to keep the laboratory running at his own cost. The cost of making any test shall be borne by the Contractor as stated in Clause 36.3 and he shall intend to conduct minimum frequency of tests on a single batch of sample procured by him as per clause 36.2.

The following Sub-Clause 36.6 is added:

#### **36.6 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.

#### **37.2 Inspection and Testing**

Factory acceptance tests shall be witnessed by the personnel as stated in Specifications-Special Provisions Sub-Clause 14.2. All costs in connection with witnessing of the factory acceptance tests by 04 Officials (02 of Client and 02 of Engineer) shall be borne by the Contractor. These shall include the costs of air travel (economy class) from



Pakistan to place of inspection/testing and back, hotel accommodation/boarding/lodging (as per actual), inland transportation and daily allowance @ US Dollars 150/- per day per person for inspection/testing to be conducted outside Pakistan not more than 06 days and Rs. 5000/- per day per person [besides other costs of travelling and lodging etc. (as above)] for inspection/testing to be conducted inside Pakistan for each visit of every person to witness these tests.

#### **41.1 Commencement of Works**

The text is deleted and substituted with the following:

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

The following Sub-Clause 47.3 is added:

#### **47.3 Bonus for Early Completion of Works**

The Contractor shall in case of earlier completion for either whole or part(s) of the Works pursuant to Sub-Clauses 48.1 and 48.2(a) respectively of the General Conditions of Contract, be paid bonus up-to a limit and at a rate prescribed in Appendix-A to Bid “Special Stipulations”.

#### **49.4 Contractor’s Failure to Carry out Instructions**

This sub-clause clearly states that Contractor is responsible to fulfil his obligations of completion of Works within a certain stipulated time period at his own cost mentioned in the Contract. However if the Contractor fails to follow the instructions, the Client is at liberty to engage any other party/person for the completion of the works originally entitled to the Contractor. In this case the Engineer, after determination of all costs, has the right to recover the amount after discussion with the Client and Contractor or deduct this amount from any monies due or become due to the Contractor. After finalization, the Engineer shall notify the Contractor accordingly and send a copy to the Client.

#### **51.2 Instructions for Variations**

At the end of the first sentence, after the word “Engineer”, the words “in writing” are added.

#### **52.1 Valuation of Variations**

In the tenth line, after the words “Engineer shall” the following is added:  
within a period not exceeding one-eighth of the completion time subject to a minimum of 56 days from the date of disagreement whichever is later.

#### **53.4 Failure to Comply**



This Sub-Clause is deleted in its entirety.

### **54.3 Customs Clearance**

Add following at the end of this Sub-Clause:

“However, obtaining customs clearance shall be the sole responsibility of the Contractor.”

### **54.5 Conditions of Hire of Contractor’s Equipment**

The following paragraph is added:

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

The following Sub-Clauses 59.4 & 59.5 are deleted and replaced as follows:

### **59.4 Payments to Nominated Subcontractors**

The Contractor shall pay to the nominated Subcontractor the amounts which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with Clause 58 [Provisional Sums], except as stated in Sub-Clause 59.5 [Certification of Payments].

### **59.5 Certification of Payments & Nominated Subcontractors**

Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Engineer may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:

- a) submits reasonable evidence to the Engineer, or
- b) i) satisfies the Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and  
ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor’s entitlement,

then the Client may (at his sole discretion) pay direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Client, the amount which the nominated Subcontractor was directly paid by the Client.

### **60.1 Monthly Statements**

In the first line after the word “shall”, the following is added:



“on the basis of the joint measurement of work done under Clause 56.1,”

In Para (c) the words “the Appendix to Tender” are deleted and substituted with the words “Sub-Clause 60.11 (a)(6) hereof”.

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

The Contractor shall, along with the statement showing the amounts to which Contractor considers himself entitled to, also submit to the Engineer supporting documents which confirm to the amount stated in the statement including check requests, completion plans of concerned work, detailed calculation sheets, measurement sheets, partial drawing clearly showing completed works and balance works, materials quality test reports etc. and duly signed by field representatives of Contractor and Engineer.

## **60.2 Monthly Payments**

In the first line, “28” is substituted by “30”.

## **60.10 Time for Payment**

Replace “28 days” with “14 days” in the 3<sup>rd</sup> line

The following Sub-Clause 60.11 is added:

## **60.11 Secured Advance on Materials**

- a) The Contractor shall be entitled, in accordance with Sub Clause 60.1 ( c), to receive from the Client Secured Advance against an indemnity bond acceptable to the Client of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the Site but not yet incorporated in the Permanent Works provided that:-
- (1) The materials are in accordance with the Specifications for the Permanent Works;
  - (2) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction of the Engineer but at the risk and cost of the Contractor;
  - (3) The Contractor’s records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
  - (4) The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefor;
  - (5) Ownership of such materials shall be deemed to vest in the Client and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Client; and



- (6) The sum payable for such materials on Site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory /ex-warehouse price of locally manufactured or produced materials, or (iii) market price of other materials.
- (b) The recovery of Secured Advance paid to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis.

#### **60.12 Financial Assistance to Contractor**

- (a) An interest-free Mobilization Advance of 5% of the Contract Price stated in the Letter of Acceptance shall be paid by the Client to the Contractor in two parts upon submission by the Contractor of a Mobilization Advance Guarantee for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan acceptable to the Client:
  - (1) First part equal to 5% of the Contract Price within 30days after signing of the Contract Agreement.
  - (2) Second part equal to 0% of the Contract Price within 21days from the date of payment of the first part, subject to
    - (i) the state of mobilization of the Contractor in accordance with the minimum requirement of Plant, Equipment and manpower as deemed appropriate by the Engineer.
    - (ii) Completion of at least 2% of permanent works (to be assessed by the Engineer)
- (b) "This Advance shall be recovered in instalments from monthly payments; first instalment at first Interim payment Certificate of work done at the rate of **25%** of work done and the last instalment before the date of completion of the Works as per Clause 43 hereof. The Engineer may vary the percentage of recovery of advance in order to complete the recovery prior to the time of completion."

#### **63.1 Default of Contractor**

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

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

#### **65.2 Special Risks**

The text is deleted and substituted with the following:

The Special Risks are the risks defined under Sub-Clause 20.4 sub paragraphs (a) (i) to (a) (v).

#### **67. 3 Arbitration**



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Pakistan Arbitration Act

1940

The number of Arbitrators shall be three including the Umpire.

In the event of any disagreement between the Engineer and the contractor arising out of the contract, the matter shall first be referred to the Director/Superintendent Engineer, for decision who shall, after making such enquiries, as he may deem fit, give his decision in writing not later than three months after the reference is made to him. The period for decision of the case by the Director/Superintendent Engineer, may however, be extended by the Chief Engineer under special conditions according to the circumstances, justification, available in each, case. The contractor shall forthwith give effect to the decision of the Director/Superintendent Engineer, and shall proceed with due diligence, whether arbitration is intended or not.

If the contractor be dissatisfied with the decision of the Director/Superintendent Engineer, or if his decision is not forthcoming within the stipulated or extended period/periods and desires arbitration under the arbitration clause as hereinafter provided, he shall give notice in writing of such intention to the Director/Superintendent Engineer, within a period of twenty eight days of the receipt of the Director/Superintendent Engineer, decision or in case no decision is given, at the end of the period or periods within which the Director/Superintendent Engineer, was to give his decision. The said notice shall contain the cause of action material facts of the case and relief sought, failing which the decision of the Director/Superintendent Engineer, shall become final conclusive and binding, and the contractor shall be deemed to have forfeited or departed from the claim in excess of that allowed by the Director/Superintendent Engineer. The subsequent inflation/increase in the amount of claim once preferred in the said notice of the same work be entertained from the contractor at any later stage.

Reference \_\_\_\_\_ to  
arbitration

A reference to arbitration shall be made by the contractor in writing not later than three months after the completion of the work. Failure to make such a reference within this period shall be deemed to mean that the contractor has waived all claims in respect of all disputes.

Disputes for Arbitration

(a) Disputes which may be referred to arbitration shall be limited to:

- i. Any question, difference, or objection, whatsoever which shall arise in any way, connected with or arising out of the contract; or land
- ii. The meanings of the operation of any part of the contract; or land
- iii. The rights, duties and liabilities of other party to the contract; and
- iv. Whether the contract should be terminated or has been rightly terminated and as regards the rights and obligations of the parties as a result of such termination.



Provided that these matters for which provision has been made in the contract for final and binding decision by the Director/Superintendent Engineer or the Engineer In charge shall be excluded from arbitration.

- (b) The contractor will have to deposit 20% of the amount of the claim up to Rs. 0.20 million and 10% of claims, exceeding Rs. 0.20 million along with the claim. This amount will be refunded after the Award has been made Rule of the Court arbitration Otherwise the amount deposited will be forfeited.
- (c) In the event of any dispute arising in accordance with the limitations provided in Sub-Clause (a) of this clause, the same shall be referred to the decisions of a sole arbitrator to be appointed by the Chief Engineer In charge of the region, of Director/Superintendent Engineer, and other than the Claim preferred is for an amount up to half a million Rupees, the decision of the sole arbitrator in such cases shall be final and binding on the parties concerned.
- (d) In case the amount of the claim preferred in over Half a Million Rupees, the dispute shall be referred to the award of two arbitrators, to be appointed from the Director/Superintendent Engineer of the Department, other than the Director/Superintendent Engineer in charge of the work one to be nominated the Chief Engineer of the Region concerned and the other by the contractor. In the case of the said two arbitrators not agreeing the case shall be referred to the award of an umpire who shall be an officer of the department not below the Rank of Chief Engineer to be appointed by the Government in the Administrative Department. The decision of the two arbitrators, umpire, as the case may be shall be final and binding on the parties concerned. Where the matter involves claim for the payment or recovery or deduction of money only, the amount, if any, awarded in the arbitration shall be recoverable in respect

The place of arbitration shall be Lahore Pakistan.

### 68.1 Notice to Contractor

In the 3<sup>rd</sup> line, add the word “courier” after the word “cable”.

The following paragraph is added:

For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Client and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

### 68.2 Notice to Client and Engineer

For the purposes of this Sub-Clause, the respective address are:

- a) The Client: **Project Director (PIFD), 51-J/III, Phase-2, Johar Town, Lahore.**
- b) The Engineer: Civil Engineer of PIFD Lahore



### **70.1 Increase or Decrease of Cost**

Sub-Clause 70.1 is deleted in its entirety.

The following Sub-Clauses 73.1, 73.2, 74.1, 75.1, 76.1, 77.1 and 78.1 are added:

### **73.1 Payment of Income Tax**

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

### **74.1 Integrity Pact**

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the Client shall be entitled to:

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

The termination under Sub-Para (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clauses 63.1 to 63.4 and the payment under Sub-Clause 63.3 shall be made after having deducted the amounts due to the Client under Sub-Para (a) and (c) of this Sub-Clause.

### **75.1 Termination of Contract for Client's Convenience**

The Client shall be entitled to terminate the Contract at any time for the Client's convenience after giving 56 days prior notice to the Contractor, with a copy to the Engineer. In the event of such termination, the Contractor :

- (a) shall proceed as provided in Sub-Clause 65.7 hereof; and
- (b) shall be paid by the Client as provided in Sub-Clause 65.8 hereof.

### **76.1 Liability of Contractor**

The Contractor or his Subcontractors or assigns shall follow strictly, all relevant labour laws including the Workmen's Compensation Act and the Client shall be fully indemnified for all claims, damages etc. arising out of any dispute between the Contractor, his Subcontractors or assigns and the labour employed by them.



**77.1 Joint and Several Liabilities**

If the Contractor is a joint venture of two or more persons, all such persons shall be jointly and severally bound to the Client for the fulfilment of the terms of the Contract and shall designate one of such persons to act as leader with authority to bind the joint venture. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Client.

**78.1 Details to be Confidential**

The Contractor shall treat the details of the Contract as private and confidential, save in so far as may be necessary for the purposes thereof, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the prior consent in writing of the Client or the Engineer. If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer whose award shall be final.



## **SPECIAL PROVISIONS**

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## **SPECIFICATIONS - SPECIAL PROVISIONS (CIVIL WORKS)**

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### **SP-1 GENERAL**

Pakistan Institute of Fashion and Design (PIFD) is a Public Sector University chartered by the Federal Government of Pakistan. To open up the new areas of thought, research & development, this pioneering venture was rolled out in 1994 to introduce Design Education in Pakistan with the over-riding objective of adding value to niche exportable products. During the gradual development of its growth, it was renamed as Pakistan Institute of Fashion and Design (PIFD) and registered under Companies Ordinance 1984 in 2007. Higher Education Commission also granted NOC for degree awarding status to it in the same year. In 2011, it was reconstituted as Federally Chartered Public Sector degree awarding Institution through PIFD Act 2011.

PIFD encourages experimentation and aims to ensure that each student is individually articulate, conceptually mature and equipped with the ability to consolidate ideas and concepts. Providing our students comprehensive design education to illumine their creative analytical potential.

Presently, PIFD comprises 4 Faculties/Schools which offer seven programs. The programs at PIFD are designed in way that allows students to experience discursive environment with fluidity between disciplines. This gives each student the freedom to forge her or his personalized path exploration, thereby practically promoting country's industry.

There are currently more than 1000 students enrolled at PIFD. The institution offers quality education which is globally competitive in standard but less costly as compared with design education in other leading universities of the world. PIFD striving hard to provide equal opportunity to the less privileged talented youth.

PIFD is the only institute of Pakistan which has full membership of CUMULUS Association which is a global association to serve Art and Design education and research which provides a forum for partnership and transfer of knowledge and best practices around the world.

The Proposed project encompasses the CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE, to fulfil the deficiency of accommodation of students at the institute along-with the infrastructural development at the institute.

The institute is growing fast while its infrastructure and allied facilities are not keeping pace with it. At present, the institute has no proper built hostel building. PIFD is maintaining 08 hostels in the rented buildings and total cost of rent is not feasible for the management. Keeping in view the requirement of accommodation for the students at the institute management has decided to overcome this deficiency up to some extent. Provision of Hostel building is being proposed in this context. The hostel building comprises of Ground + 5 floors with a total covered area of 45,500 sqft.

The objectives under this project are listed below.

- The construction of student's hostel accommodation comprising of Ground +05 Floors building with total covered area of 45,500 sqft is proposed in Phase-I of this project. The initial capacity of the students will be 160 in numbers.



- To provide the facilities to the new building i.e. boundary wall, water supply, power supply, sewerage, roads, gas supply and horticulture etc.
- The provision of furniture and fixture for 160 students has been given.
- In order to overcome the power shortages and load shedding, a generator of 200 KVA capacity (for lights and fans only) has also been included so that the cost of UPS/Batteries may be eliminated.

## **SP-2 DESCRIPTION OF THE WORKS**

**2.1** The work included in this Contract are as follows but not limited to these items only:

- Building Works
- Laying of water supply with allied utilities
- Laying of Sewerage Pipes with allied utilities
- Construction of Manholes
- Construction Retaining Walls
- Construction of Boundary wall
- Construction of overhead water tank
- Construction of underground water tank
- Construction of septic tank

## **SP-3 SITE OF WORKS**

The aforesaid project is located at the Plot No 95 Block A/3 of Johar Town, Lahore. The coordinates of site are; 31.46° N, 74.30° E. The project site is accessible through Ghazi road, PIA road and College road leading towards the Plot 95 Block A/3 of Johar Town in Lahore, Pakistan.

## **SP-4 SETTING OUT**

Setting out data and control points for the construction of the buildings will be provided by the Engineer following the Notice to Commence but in any case prior to start of work of each building.

## **SP-5 CLIMATOLOGICAL DATA**

Not used.

## **SP-6 UTILITIES**

The Contractor shall directly enquire from the utility companies about availability of connections of electric power supply and telephone lines for his use at the Site. In case of non-availability of electric power supply from national grid to meet his requirements the Contractor shall provide at his own cost electric power generators as necessary for supply of power for the various parts of the Works including his camps, offices, stores, workshops and other installations as well as for the Engineer's Site office provided under Sub-Clause SP 20.1. The Contractor shall bear all costs for constructing,



operating and maintaining the generation system, including the standby generation system, and distribution system including providing diesel, oil or other consumables and all services and necessary attendance to ensure uninterrupted power supply at all times.

The Contractor shall make his own investigations and arrangements for supply of water of acceptable quality for construction requirements and safe drinking water for his staff and workmen and for the staff of the Engineer.

No separate payment will be made to the Contractor for works performed under this Clause and the costs thereof shall be deemed to be included in the rates and prices of the various items in the Bill of Quantities.

#### **SP-7 TOPOGRAPHY AND GEOLOGY OF THE SITE**

The details of Topography is with the Client / Engineer.

#### **SP-8 EXTENT OF WORK**

The Contractor shall remove all debris and unsuitable construction to the Engineer's satisfaction with no additional cost.

The Contractor shall construct the Works in accordance with the Drawings and Specifications and as directed by the Engineer. The Contractor shall procure, furnish, provide and arrange all the necessary construction materials, equipment, transportation, fuel, electric power, water and services; be responsible for the construction and maintenance of the construction camps, offices, workshops and warehouses that he may require, and perform all other work necessary for completion of the Works described herein, in complete conformity with the Contract.

#### **SP-9 DRAWINGS**

##### **9.1 Bidding Drawings**

The Drawings provided as separate volume of Bid Documents and hereinafter referred to as Bid Drawings show the scope of the work to be performed by the Contractor. The Bid Drawings shall not be used as a basis for fabrication or construction, but may be used as the basis for planning, scheduling and placing preliminary orders for materials, subject to corrections based on future issue of Construction Drawings. Any other Drawings if issued through Addenda, before opening of Tenders, shall become part of the Bid Drawings.

##### **9.2 Construction Drawings**

After award of Contract, Bidding Drawings will be replaced by Drawings issued by the Engineer for Construction, with such modifications as may be necessary. The Drawings Issued for Construction will include Bid Drawings re-issued, Bidding Drawings modified and additional Drawings as required to develop in greater detail the construction required and shall be referred to hereinafter as "Construction Drawings". The Construction Drawings that show changes from the Tender Drawings and Specifications, will be reviewed by the Engineer for determination of adjustments, if any, of the Contract Price in accordance with the provisions of Clause 51.1, Variations,



of the Conditions of Contract. The work shall be executed in conformity with the Construction Drawings.

The Engineer and Contractor shall jointly prepare a schedule for issuance of Drawings Issued for Construction of the various parts of the Works based on a list of drawings provided by the Engineer.

### **9.3 Checking of Drawings**

The Contractor shall carefully check all Construction Drawings as soon as practicable after receipt thereof, and shall promptly advise the Engineer of any errors if discovered.

## **SP-10 RIGHT TO CHANGE**

The Engineer may find it desirable to change location, alignment, dimensions or design of one or more of the features of the Works to conform to the newly disclosed conditions. Toward this end, the Engineer reserves the right to make such reasonable changes, and the Contractor's operations shall be conducted so as to accommodate any such changes in the Works.

## **SP-11 DRAWINGS/DATA TO BE FURNISHED BY CLIENT /ENGINEER**

### **11.1 Procedure for Submittal of Contractor's Drawings**

All drawings showing construction details shall be provided by the Client/Engineer.

### **11.2 Other Drawings**

Other drawings additional to those referred to herein-above required by the Specifications showing proposed methods of constructing Temporary Works and all bar bending schedules shall be submitted by the Contractor to the Engineer for approval.

### **11.3 Ownership of Drawings etc.**

All the drawings, details, and any other information or documents furnished by the Engineer shall become the property of the Client.

## **SP-12 COOPERATION WITH OTHER CONTRACTORS**

The Contractor shall cooperate and coordinate his work with that of the other contractors working at the Site, to whatever extent may be necessary to complete the Works in accordance with the approved program and the Engineer's instructions.

## **SP-13 QUALITY OF MATERIALS**

All materials, fixtures, fittings, and supplies furnished under the Contract shall be new and unused, of standard first grade quality and of the best workmanship and design. No inferior or low grade materials and supplies will be either approved or accepted, and all work of assembly and construction shall be done in a first class and workmanlike manner. In asking for prices of materials intended for delivery to the Site and incorporation in the Works under any portion of these Specifications, the Contractor shall provide the manufacturer or supplier with complete information as may be



necessary to secure compliance with these requirements and, in every case, he shall quote this Clause in full to each such manufacturer or supplier.

Prior to procurement, the Contractor shall furnish to the Engineer, for his approval, the names of the manufacturers of all equipment and materials which he contemplates incorporating in the Works. With this information, the Contractor shall also furnish such pertinent information as to capacities, efficiencies and sizes, and such other information as may be required by the Engineer. Samples of materials shall be submitted to the Engineer for approval unless waived of by the Engineer. Equipment, materials, supplies and articles installed or used without the Engineer's approval shall be at the risk of subsequent rejection.

The Contractor shall use non-reactive aggregates from suitable quarries for concrete work. The Contractor shall use deformed steel reinforcement bars rolled from Pakistan Steel Mills billet or equivalent from re-rolling mills proposed by the Contractor and approved by the Engineer.

## **SP-14 INSPECTIONS AND TESTS**

### **14.1 Inspection**

All equipment and materials furnished under the Contract and all work performed in connection therewith under the Contract shall be subject to inspection and testing by the Engineer or his authorized agent at all times and in all stages of completion. Inspection at the manufacturer's plant may be made to determine that the equipment and materials meet the requirements of these Specifications. The Contractor shall notify the Engineer not less than 21 days in advance of the date and place that the equipment or materials will be available for inspection and testing. No equipment or materials shall be transported until inspection at the manufacturer's plant has been made. Acceptance of equipment and materials or the waiving of inspection and testing thereof shall in no way relieve the Contractor of the responsibility for furnishing equipment and materials meeting the requirements of the Contract Documents. Confirmatory tests shall also be carried out at the Site or at an approved laboratory, as instructed by the Engineer. These tests shall be witnessed by the Engineer and performed at no additional cost to the Client.

Contractor will submit his submittal to Engineer/Client in case of Non-scheduled items or Items to be imported for approval prior to booking to supplier/manufacturer before undertaking the item into execution. Submittal proposed from contractor must comprise minimum three proposed manufacturers to be submitted to Engineer for approval purposes. It will be discretion of Engineer to recommend for approval one of them or as contractor for other than those manufacturer proposed in shape of submittal by contractor for someone else on equivalency basis. Pre-shipment inspection of the selected manufacturer's equipment will be carried out as per G.C.C 37.2 & P.CC 14.1 by the engineer/client. Contractor must submit Bill of landing of such imported equipment prior to transport to site. Confirmatory tests shall also be carried out at the Site or at an approved laboratory, as instructed by the Engineer. These tests shall be witnessed by the Engineer and performed at no additional cost to the Client.

### **14.2 Testing**

The Engineer will make such tests on concrete, aggregates, fill materials, reinforcing



steel and other materials as he may from time to time select, and the Contractor shall provide at his own cost such samples or assistance in sampling materials at the Site as the Engineer may reasonably require. Testing by the Engineer shall in no way relieve the Contractor of his responsibility to test materials to ensure that they meet all the specified requirements and to control their quality. The Engineer may accept that items manufactured away from the Site meeting the specified requirements without further testing subject to the Contractor furnishing satisfactory proof of compliance with these Specifications in one or more of the ways described below.

The Contractor shall provide free of charge such labour, materials, electricity, fuel, water, stores, apparatus and feedstock as may be reasonably required by the Client to carry out the Tests. Further contractor shall make all kind of arrangements for third party inspection/ Witnessing of Factory Acceptance Tests (as stated and in conjunction with Sub-clause 37.2, Particular Conditions of Contract), of major components of GRP pipe in manufacturing factory whether located in Pakistan/abroad for four officials (02 from Client and 02 from Engineer-In-charge side). All expenses regarding air tickets, visa in case of abroad, boarding/lodging, food, transport, hoteling etc. will be borne by the Contractor and no extra payment will be made to contractor. Contractor shall quote his prices keeping in view of such expenses.

#### **Manufacturer's Certificate of Compliance**

In the case of standard labelled stock products of standard manufacture which have a record of satisfactory performance in similar work over a period of not less than five years, the Engineer may accept a notarised statement from the approved manufacturer certifying that the product conforms to the applicable specifications.

#### **Mill Certificates**

Regarding materials for which such practice is usual, the Engineer may accept the approved manufacturer's certified mill and laboratory certificates.

#### **Testing Laboratory Certificates**

The Engineer may accept a certificate from a renowned commercial testing laboratory, satisfactory to him, certifying that the product has been tested within a period acceptable to the Engineer and that it conforms to the requirements of these Specifications.

#### **Service Record**

If a demonstrable satisfactory service record for a period not less than ten (10) years is available for a material, certain specified tests may be waived off by the Engineer.

### **14.3 Cost**

Further to the provisions of Sub-Clause 36.3, Conditions of Contract, the cost of any laboratory, field and shop tests required from any agency of compliance with under Specifications shall be borne by the Contractor.

## **SP-15 CONSTRUCTION PROGRAMME**

### **15.1 General**



The Contractor shall submit his programme for execution of the Works in accordance with Clause 14.1 [*Programme to be Submitted*], under the Conditions of Contract, to the Engineer for approval. The programme may contain adjustments if any, to the CPM (Critical Path Method) based Bar Chart submitted with the Bid. The completion date, milestones, and key targets indicated in Appendix-E to Bid, or dates earlier than the said milestone and key target dates, shall be shown on the construction programme to be submitted by the Contractor. Other dates including rates of progress for various parts of the Works in the construction programme may be changed by the Contractor and submitted for approval. The operations under each section of the programme submitted by the Contractor shall be broken down in greater detail than those shown on the Schedule submitted with the Bid.

The programme shall also show the timing of provision of any facilities the Contractor is required to supply for use by the Client and the Engineer, in such manner that these shall be available as stipulated in the Contract and instructed by the Engineer.

## **15.2 Submittals**

- (a) The initial submittal of network analysis shall include a description of the major items of construction equipment planned to be used. The description of the equipment shall include the type, number of units, their capacity, etc. The forecast shall include the estimated dates on which each major item of construction equipment will be on the job. The Bar Chart and the Network Analysis shall be submitted within 14 days after receipt of the Letter of Acceptance.

The submittal shall consist of:

- (i) 4 copies of the Bar Chart.
- (ii) A narrative summary of the construction plan.
- (iii) A backup of the schedule files on re-writable CD disks or pen drive.

The Engineer will review the construction schedule and the approved initial submittal will be the Project Baseline Schedule by which the performance of the Contractor will be measured as per Sub-Clause 15.6 below:

- (b) Monthly submittals shall show completed progress of each activity during the past month, with forecast for the coming month. Hammock networks shall be incorporated on the Base Line Schedule of activities. Each monthly submittal shall contain:
- (i) 4 copies of the Bar Chart.
  - (ii) 4 copies of a time scaled logic diagram for the next three months.
  - (iii) A narrative summary of the schedule related issues and status. The narrative shall include discussion of pending schedule changes submitted to the Engineer in the past month.
  - (iv) A backup of the schedule files on rewritable CDs or pen drive.

## **15.3 Progress Schedule**

Both the bar charts and network analysis schedules shall be continuously monitored and kept current and updated by the Contractor throughout the work, and at least on every



milestone date and submitted for approval. The Contractor's schedules shall be available for examination during normal business hours. All revisions shall be accompanied by a detailed explanation of the reasons for the changes and describing any new or modified construction procedure proposed and, if applicable, any steps being taken to improve progress to achieve completion within the Time for Completion.

## **SP-16 LAY OUT OF WORKS**

### **16.1 Reference Points, Lines and Levels**

The Engineer will lay out a reference line or lines in the field with accompanying points and/or bench-marks to enable the Contractor to establish there from survey control for construction.

### **16.2 Verification**

The Engineer may make checks as the work progresses to verify lines, levels and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Specifications and the Drawings. Shall not relieve the Contractor of his responsibility to perform all work in accordance with the Drawings and Specifications and the lines, levels and grades given therein.

### **16.3 Primary Control Points**

Based upon the Engineer's basic control, the Contractor shall provide his own primary control points, as needed for the Works, and shall preserve and maintain them until otherwise authorized.

The Contractor shall be responsible for maintaining all survey markers/monuments, and property corners. If any markers/monuments are disturbed or destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer. If a monument cannot be replaced in its original position, the Contractor shall install a witness corner. The Contractor shall complete and file monument reference cards on all monuments as per instructions of the Engineer.

### **16.4 Construction Surveyors**

The Contractor shall provide experienced construction surveyor/s with adequate experience in the construction surveys similar in nature as required by this Contract.

### **16.5 Basic Control Monument**

Based upon the Engineer's established basic control monuments, the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed in Sub-Clause 16.7 below.

### **16.6 Surveys and Computations**

The Contractor shall perform such surveys and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys required by the Engineer to determine final quantities



of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

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

### **16.7 Tolerances**

Degree of accuracy for the survey works shall satisfy the following specified tolerances:

- (a) Alignment of tangents and curves shall be within 0.1 foot for 1,000 feet i.e., an accuracy of 1:10,000.
- (b) Structure points shall be set within 0.01 foot accuracy from point to point, except where tighter tolerances are required.
- (c) Cross-section points shall be located within 0.10 foot, horizontally and 0.01 foot vertically.
- (d) Permissible closing error for a levelling line meant for establishing Temporary Bench Mark (TBMs) shall not exceed  $0.045 \times \sqrt{M}$  foot, where M is in miles. The permissible closing error shall be duly adjusted.

### **16.8 Material and Equipment**

The Contractor shall provide all materials, equipment and labour required for work.

### **SP-17 STANDARDS AND SPECIFICATIONS**

Except as otherwise provided by these Specifications or the Drawings all materials, equipment and fabrication and testing thereof shall conform to the latest applicable Standards and Specifications contained in the following list or to equivalent applicable Standards and Specifications. Copies of these Standards and Specifications may be purchased from the indicated agency, which publishes them:

- |   |  |      |
|---|--|------|
| - | British Standard                           | BS   |
| - | American Concrete Institute                | ACI  |
| - | American Society for Testing and Materials | ASTM |

Where relevant Standards and Codes of Practice now quote metric units only, these are to be interpreted as required to the nearest equivalent imperial (foot/pound) unit for the purposes of this Contract.

All materials and workmanship not fully specified herein or covered by an approved Standard shall be of such a kind as is used in first class work and suitable to the climate in the Project Area.

If the Contractor, at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards, he shall state the exact nature of the changes, the reason for making the change and shall submit complete specifications of the materials and equipment to the Engineer for approval.



## **SP-18 ACCESS TO SITE**

### **18.1 Right of Way for Access and Haul Routes**

The Contractor shall be responsible for providing and maintaining access routes for the Works. The right of way for access to the Works from existing roads will be provided by the Client. The Contractor shall make his own investigations of the condition of available public or private roads and of clearances, restrictions, bridge load limits and other limitations that affect or may affect transportation and ingress and egress at the job sites. The repair and reinstatement of roadways, drain and canal banks if damaged during operation shall be the responsibility of the Contractor without any additional cost to the Client. The Client controlled right of way shall be the Right of Way (ROW) available to the Contractor for carrying out the Works.

### **18.2 Restoration of Site**

On completion of the Works, the Site shall be restored by the Contractor to its original conditions as far as practicable and left in tidy condition.

## **SP-19 FACILITIES TO BE PROVIDED BY THE CONTRACTOR AT SITE**

### **19.1 Contractor's Camps**

Pursuant to the provisions of Sub-Clauses 34.4 to 34.7 of the Particular Conditions of Contract Part II. The Contractor may arrange these facilities in the nearby area of the Project or may request the Client to provide land for providing temporary arrangements.

### **19.2 Temporary Sanitary Facilities**

- (a) The Contractor shall provide adequate temporary sanitary conveniences for the use of his employees and persons engaged on the work, including the Engineer and his employees. He shall ensure that his employees and labour make proper use of the latrines and do not foul the Site.
- (b) In addition to toilet facilities, suitable and adequate washing facilities shall be provided.
- (c) Sanitary facilities shall be located as directed or approved by the Engineer and shall be maintained in a clean and sanitary condition during the entire course of the work.
- (d) The septic tank and/or temporary holding tank(s) shall be kept pumped out at such intervals that the tank(s) will not overflow and contaminate the ground, flowing streams or surface drainage.
- (e) On completion of the Works, sanitary facilities shall be properly disinfected and all evidence of same including temporary buried tanks and foundations removed from the Site.



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### **19.3 Medical Facilities**

The Contractor shall arrange provision of adequate medical facilities for his employees.

Adequately equipped dispensary/ies with qualified and experienced staff shall be provided by the Contractor at his camps. In addition suitably equipped first aid stations manned by trained staff shall be provided at strategic locations, to administer first aid treatment at all times free of charge to all persons on the Site, including personnel of the Engineer and the Client. The nature, number and location of facilities furnished and the Contractor's staff for administering first-aid treatment shall meet the requirements of the Health Services of the Government of Pakistan.

### **19.4 Operation and Maintenance of the Camps and Facilities**

For the purpose of operation and maintenance of the camps and facilities provided as above, the Contractor shall comply with all applicable provisions of the Pakistani Labour Laws and specifically to the following requirements:

- (a) Camp areas shall be kept dry and free from dense vegetation. Measures shall be taken to control dust within the camp area, by water or oil spraying or other approved means.
- (b) Any ponded water around a camp shall be sprayed weekly with oil or other approved anti-malaria liquid.
- (c) The Contractor shall provide garbage collection and disposal services for his construction camps and the Engineer's office. Disposal shall be by burial (landfill) and/or incineration. Disposal area shall be located a sufficient distance away and downwind from camp facilities and offices so as not to create objectionable odours or health hazards. Equipment, methods of collection and disposal and location of disposal areas shall be submitted to the Engineer for approval.
- (d) The interior walls and ceilings of buildings shall be lime washed or painted. The whole of the open spaces around the buildings shall be swept each day and all rubbish removed. The living areas shall be suitable for the climatic conditions. Roof height shall not be less than 10.5 ft. and adequate number of ceiling fans shall be provided.
- (e) Adequate sanitary conveniences, including washing and bathing places shall be maintained at each of the camps. All sanitary fixtures, receptacles, toilet rooms, lavatories and wash rooms shall be cleaned and disinfected at least once every day.

### **19.5 Drainage**

The ground around the buildings shall be graded to slope away from building perimeters so as to provide adequate drainage and shall be thoroughly compacted. Excavated material shall be disposed of by filling in low areas or as otherwise directed by the Engineer.



## **19.6 Water Supply**

The Contractor shall arrange for the water supply for his staff residences, labour camps, site offices, work yards, workshops, and various camp facilities. Construction of pumps, storage tanks, overhead tank, distribution system, and their proper running and maintenance shall be his responsibility. Water shall be supplied to the camps 24 hours a day. Adequate supply of water, cooled in summer, shall be ensured in camps and sites of work. Water samples shall be tested periodically to ensure that it is fit for human consumption.

## **19.7 Electricity Supply**

The Contractor shall provide electricity required for the Works including labour camps, staff residences, offices including the Engineer's Site office and various camp facilities. The Contractor shall also provide sufficient standby electricity supply arrangements for his needs.

## **19.8 Utility Lines**

The Contractor Shall conduct his operations, make necessary arrangements, take suitable precautions and perform all required work incidental to the protection of and avoidance of interference with power, telephone, water and other utilities within the areas of his operations in connection with the Contract. No separate payment shall be made for such incidental work. In case the utility lines are required to be relocated the Contractor shall arrange their relocation with the concerned departments and organizations. The Contractor shall obtain cost estimates for relocation of utilities for the Engineer/Client's approval before execution of the Work .The Contractor shall be reimbursed the actual approved cost carried in by him.

## **19.9 Handing Over/Removal after Completion**

Upon completion of the Works, the Contractor shall remove all the Contractor's camps, labour and staff accommodation, site office, other installations and buildings constructed and all facilities provided by the Contractor under this Clause, and the Site cleared and reinstated to the satisfaction of the Engineer.

## **19.10 Measurement and Payment**

Except as provided in SP-19.8 no separate payment will be made for the work included under the Clause SP-19; the cost thereof is deemed to be included in the rates and prices of other items entered in the Bill of Quantities.

## **SP-20 PROVISION OF FACILITIES FOR THE ENGINEER STAFF/CLIENT**

### **20.1 Facilities for Engineer/Client's Staff:**

(a) **Site offices:**

Contractor shall provide a camp office for Engineer in-charge and Officers of Executing Agency fully furnished for their daily routine works having covered area size not less than 500 sft each with all utilities and facilities. No extra payment for this job will be paid to contractor. Contractor must quote his rates in BOQ keeping in view such kind of expanses.



- (b) **Furniture:**  
Contractor shall equipped camp offices for Engineer in-charge and Officers of Executing Agency with all utilities and facilities free of cost like furniture, tables, chairs, Air conditioner, stationery, telephone, fax, internet etc. inclusive of their routine monthly bills with approval of Engineer in-charge/Officers of Executing Agency. Contractor will not be paid for this job separately being consideration that contractor has quoted his bid rates keeping in view such expanses.
- (d) **Transport:**  
Contractor will provide as and when required vehicle/ transport to the client/ engineer and his representative for daily routine inspection of the site activities.
- (e) **Office Equipment & Stationery:**  
Contractor will supply essential office equipment to the Engineer (including laptops/printer/scanner) as desired by the Engineer/Officers of Executing Agency and stationary free of cost considering the said amount is included in all items listed in Bill of Quantities.

## 20.2 Ownership of Site facilities

All facilities/utilities provided by the contractor as stated above in Clause-20.1 will be property of Engineer In charge/Client after successful handing taking over of project and expiration of defect liability period.

## 20.3 Measurement and Payment

No extra/separate payment will be made to Contractor.

## SP-21 PROGRESS PHOTOGRAPHS

The Contractor shall furnish to the Engineer every month, for the site of Fifteen colour photographs on CD or pen drive and 4 colour prints of each photograph taken with a digital camera to clearly show the progress of construction. Each photograph shall be submitted in four prints of size 20 cm x 25 cm. Each print shall be marked on the back side with the caption of the activity, date and serial number. There shall be no writing, lettering or marking on the face of the photograph. Progress photographs shall be submitted from the month, following the month in which Notice to Commence is issued and continued till completion of the Works.

No separate payment will be made for the work specified herein and the cost thereof shall be deemed to be included in the other items of the Bill of Quantities.

## SP-22 SITE FACILITIES TO BE PROVIDED BY THE CLIENT



## **22.1 General**

Without prejudice to the generality of the various clauses of the Contract and except for the facilities referred to hereinafter, particular attention is drawn to the obligations of the Contractor to make his own arrangements for providing, maintenance and furnishing of labour camps, staff residences, offices, workshops, stores watching and guarding thereof.

The Contractor shall submit his written demand of his requirements of land for his Site Facilities as herein specified, at least 28 days in advance.

## **22.2 Area for Storage and Workshop**

The contractor will arrange an open area of adequate size for the facilities listed in Appendix-H to Tender and approved by the Engineer, for use as storage, and workshop areas. The Contractor shall provide and maintain at his own cost, all fencing, any necessary clearing, land levelling, foundations and above ground structures for sheds, covered areas, workshops, electricity, telephone, water distribution and waste water disposal etc, as he may need to meet his requirements.

## **SP-23 SAFETY MEASURES AT CONSTRUCTION SITE**

- a) Pursuant to the provisions of Sub-Clause, for Safety Measures the Contractor shall observe high standards of safety for men and machines at all times and with regard to safety.
- b) The Contractor shall take all possible measures to protect his personnel from harm. In case of any casualty or injury to any person due to the Contractor's operations, the Contractor shall ensure quality medical treatment and payment of due compensation.
- c) The Contractor shall not permit casual observers to come close to the sites where excavation and other hazardous operations are being performed.

## **SP-24 ENVIRONMENTAL PROTECTION**

The Contractor shall exercise care to protect the natural landscape and shall conduct his construction operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of the Works. Except where clearing is required for the Permanent Works, approved construction roads and the Temporary Works, and for excavation operations, all trees and native vegetation shall be preserved and shall be protected from damage which may be caused by the Contractor's construction operations and equipment. On completion of the Works, all work areas shall be smoothed and graded in a manner to conform to the natural appearance of the landscape. Where unnecessary destruction, scarring, damage or defacing may occur as a result of the Contractor's operations, it shall be repaired, replanted, or otherwise corrected as directed by the Engineer at no additional cost to the Client.



# PAKISTAN INSTITUTE OF FASHION AND DESIGN

## CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

**(COVERED AREA = 47,000 SFT)**

### BILL OF QUANTITIES

**MAY, 2025**



Head Office: .287-A, Street # 6, Cavalry Ground, Lahore. Tel: 042 37250130  
**Islamabad Office:** House # 4 Street # 588, Sector G-13/2 Islamabad  
Tel:051 4848375, Fax: 0514848375, E-mail: newvisionec@yahoo.com

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF  
FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**SUMMARY OF COST**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	DESCRIPTION	AMOUNT
1.	<b>MAIN BUILDING</b>	
i	<b>CIVIL WORKS</b>	
ii	<b>PUBLIC HEALTH WORKS</b>	
iii	<b>ELECTRIC WORKS</b>	
	<b>Main Building TOTAL - A</b>	
2.	<b>GUARD ROOM</b>	
i	<b>CIVIL WORKS</b>	
ii	<b>PUBLIC HEALTH WORKS</b>	
iii	<b>ELECTRIC WORKS</b>	
	<b>Guard Room TOTAL - B</b>	
3.	<b>EXTERNAL DEVELOPMENT</b>	
i	<b>TUBEWELL ROOM WITH MECHANICAL WORKS</b>	
ii	<b>BOUNDARY WALL</b>	
iii	<b>PARKING AND LANDSCAPING AREA</b>	
iv	<b>DRAINAGE</b>	
v	<b>FIRE FIGHTING PUMP ROOM</b>	
vi	<b>EXTERNAL PLUMBING WORKS</b>	
vii	<b>EXTERNAL ELECTRICAL WORKS</b>	
	<b>External Civil Works TOTAL - C</b>	
	<b>1-SUB TOTAL - (A+B+C)</b>	
	<b>Add PST @ 5 %</b>	
	<b>GRAND TOTAL</b>	

**Amount in Words:**

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION  
AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**SUMMARY OF COST**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	MAIN BUILDING	
i	CIVIL WORKS	
ii	PUBLIC HEALTH WORKS	
iii	ELECTRIC WORKS	
	<b>Main Building</b>	<b>TOTAL - A</b>

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(2)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%0Cft	59318.13		
2	C-3/21(2)-b-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and Lift from 5ft (1.5m) to 15 ft (4.5 m) b) By Excavator: in ordinary soil.	%0Cft	5264.00		
3	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	32707.13		
4	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	5249.43		
5	C-6/6 c-(2)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type B (nominal mix 1: 1½: 3	P.Cft	21602.32		
6	C-6/6 a-(3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	12061.0		
7	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for First Floor.	P.Cft	7763.3		
8	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Second Floor.	P.Cft	7197.9		
9	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Third Floor.	P.Cft	6925.6		
10	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Fourth Floor.	P.Cft	6972.4		
11	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Fifth Floor.	P.Cft	6940.0		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
12	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Sixth Floor.	P.Cft	1447.6		
13	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), U.P.L Floor	P.Cft	4839.7		
14	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	2923.2		
15	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.	P.Cft	2505.6		
16	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	2080.4		
17	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Third Floor.	P.Cft	2080.4		
18	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Fourth Floor.	P.Cft	2080.4		
19	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Fifth Floor.	P.Cft	3020.9		
20	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Sixth Floor.	P.Cft	1046.9		
21	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	535849.25		
22	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	4041.56		
23	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	21527.38		
24	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).	%0Cft	29510.5		
25	C-3/17	Transportation of earth all types when the total distance, this rate will be paid in addition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 8km)				
26	a	upto ¼ mile (400 m).	%0Cft	29510.5		
27	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	29510.5		
28	c	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile ( 8 Km).	%0Cft	29510.5		
29	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	9313.32		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
30	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	1060.45		
31	C-7/5(i) + 6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	6699.31		
32	C-7/5(i) + 6(ii)	Pacca brick work in first floor cement, sand mortar Ratio 1:4	%Cft	473.31		
33	C-7/5(i) + 6(ii)	Pacca brick work in Second floor cement, sand mortar Ratio 1:5	%Cft	7169.90		
34	C-7/5(i) + 6(ii)	Pacca brick work in Second floor cement, sand mortar Ratio 1:4	%Cft	437.10		
35	C-7/5(i) + 6(iii)	Pacca brick work in Third floor cement, sand mortar Ratio 1:5	%Cft	7747.00		
36	C-7/5(i) + 6(iii)	Pacca brick work in Third floor cement, sand mortar Ratio 1:4	%Cft	442.71		
37	C-7/5(i) + 6(iv)	Pacca brick work in Fourth floor cement, sand mortar Ratio 1:5	%Cft	7709.00		
38	C-7/5(i) + 6(iv)	Pacca brick work in Fourth floor cement, sand mortar Ratio 1:4	%Cft	442.71		
39	C-7/5(i) + 6(iv)	Pacca brick work in Fifth floor cement, sand mortar Ratio 1:5	%Cft	7609.50		
40	C-7/5(i) + 6(iv)	Pacca brick work in Fifth floor cement, sand mortar Ratio 1:4	%Cft	442.71		
41	C-7/5(i) + 6(iv)	Pacca brick work in Six floor cement, sand mortar Ratio 1:5	%Cft	1158.82		
42	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor + First Floor)(Internal)	%Sft	39881.6		
43	C-11/11(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Second Floor)(Internal)	%Sft	15141.5		
44	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Third Floor)(Internal)	%Sft	15272.5		
45	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Fourth Floor)(Internal)	%Sft	15219.7		
46	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Fifth Floor)(Internal)	%Sft	15122.4		
47	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Six Floor)(Internal)	%Sft	2400.0		
48	C-11/9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Ground Floor + First Floor)(Internal)	%Sft	31636.9		
49	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Second Floor)(Internal)	%Sft	14632.5		
50	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Third Floor)(Internal)	%Sft	14763.5		
51	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Fourth Floor)(Internal)	%Sft	14710.7		
52	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Fifth Floor)(Internal)	%Sft	14613.4		
53	C-11/9(c)	Cement plaster 1:4 upto Ground Floor:- c) ¾" (20 mm) thick. (External)	%Sft	14304.41		
54	C-11/9(c) + 28	Cement plaster 1:4 First Floor:- c) ¾" (20 mm) thick. (External)	%Sft	10131.52		
55	C-11/9(c) + 28	Cement plaster 1:4 upto Second Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
56	C-11/9(c) + 28	Cement plaster 1:4 upto Third Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
57	C-11/9(c) + 28	Cement plaster 1:4 upto Fourth Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
58	C-11/9(c) + 28	Cement plaster 1:4 upto Fifth Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
59	C-11/9(c) + 28	Cement plaster 1:4 upto Six Floor:- c) ¾" (20 mm) thick. (External)	%Sft	8632.59		
60	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	11345.0		
61	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only First Floor ratio 1:3.	%Sft	7580.0		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
62	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Second Floor ratio 1:3.	%Sft	6825.0		
63	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Third Floor ratio 1:3.	%Sft	6825.0		
64	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Fourth Floor ratio 1:3.	%Sft	6825.0		
65	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Fifth Floor ratio 1:3.	%Sft	6825.0		
66	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Six Floor ratio 1:3.	%Sft	2183.0		
67	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	175768.50		
68	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	351537.00		
69	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	12135.00		
70	C-7/37	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"	P.Sft	24703.50		
71	C-9/48 (iv)	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1 1/4" x 1"and 1 1/2" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. iv) 12 mm thick	P.Sft	9500.0		
72	C-10/4	Providing, laying, watering and ramming brick ballast 1 1/2" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	30422.50		
73	C-6/5(f)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	13260.50		
74	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	3360.00		
75	C-9/35/iii	Providing and laying roof insulation, comprising of single layer of tiles 9"x4 1/2"x1 1/2" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	7895.00		
76	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	30.00		
77	C-10/23(a)	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Ground Floor	%Sft	10750.00		
78	C-10/23(a) +19	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. First Floor	%Sft	7450.00		
79	C-10/23(a) +19	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Second Floor	%Sft	6825.00		
80	C-10/23(a) +19	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement.Third Floor	%Sft	6825.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
81	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Fourth Floor	%Sft	6825.00		
82	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Fifth Floor	%Sft	6825.00		
83	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Six Floor	%Sft	1750.00		
84	C-10/40(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)	P.Rft	30366.00		
85	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Ground Floor	%Sft	635.25		
86	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick First Floor	%Sft	567.11		
87	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Second Floor	%Sft	599.78		
88	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Third Floor	%Sft	599.78		
89	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Fourth Floor	%Sft	599.78		
90	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Fifth Floor	%Sft	599.78		
91	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Six Floor	%Sft	80.85		
92	C-10/24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	2530.00		
93	C-10/25 (i)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	10864.00		
94	C-10/52 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick	P.Sft	3820.37		
95	C-10/50	Extra for Beveling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	P.Rft	4960.33		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
96	C-10/51	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	32.00		
97	C-25/49	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	P.Sft	982.00		
98	C-12/50	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	P.Sft	2457.00		
99	C-12/60 (b) - (ii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. (ii) 12" (300 mm) long	Each	99.00		
100	C-12/22	Providing and fixing, approved quality mortice lock	Each	99.00		
101	C-12/64	Providing and fixing automatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge	Each	99.00		
102	C-12/52	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	P.Rft	605.00		
103	C- 12/17 - (ii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(ii) 10.50 " wide	P.Sft	1764.00		
104	C- 12/17 - (iii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(iii) 5.5 " wide	P.Sft	609.00		
105	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	6333.53		
106	C-25/62-ii	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. (ii) Double Leaf	P.Sft	24.50		
107	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4")and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P.Sft	5777.29		
108	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P.Sft	5777.29		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
109	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P.Sft	5777.29		
110	Ch-25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	P.Rft	270.00		
111	Ch-25/34	Providing/fixing stair railing consisting of M.S. Box section size 1-1/2"x3" of 16 SWG welded with M.S. flat 1"x1/8" continuously and welded over M.S. square bars 5/8"x5/8" punched in M.S. flat 2 3/4' high @ 5 1/2" c/c fixed in steps of stair I/C painting 3 coats complete	P.Rft	300.00		
112	Ch-25/35	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	P.Rft	120.00		
113	C-6/37(a-ii)	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	1368.75		
114	C-6/39(a-ii)	Providing and laying damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge :- ii) Ratio 1:3 b) 3/4 " thick (20mm)	%Sft	862.50		
115	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	11380.1		
116	C-19/40 (iii)	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	5.00		
117	C-21/13	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	40.00		
118	C-6/32-(ii)	Providing embedding 10" (250 mm) wide 1/4" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	P.Rft	212.50		
119	C-12/59 (iii)	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 iv) 2' deep,without back.(Kitchen)	P.Sft	447.36		
120	C-12/59 (iv)	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 iv) 2' deep,with back.(kitchen & Cabins Cabinet)	P.Sft	447.36		
121	C-6/15	Providing and fixing ornamental cement jali 2" (50 mm) thick 1: 2: 4), without steel.	P.Sft	3112.02		
122	C-6/30	Providing and fixing 6 in (150 mm). Wide G.I. sheet 18SWG. stopper to expansion joint.	P.Rft	120.00		
123	C-6/33	Filling expansion joints with bitumen.sand & saw dust in ratio 1:2:2.	P.Rft	120.00		
124	C-6/28-a	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-a) On interior surface (without mastic strip)	P.Rft	250.00		
125	C-6/28-b	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc.,compete in all respects:-a) b) On exterior surface (with mastic strip)	P.Rft	250.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
126	C-25/10+11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses,girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (Main Gate)	%kg	3089.12		
127	C-13/5 d(i+ii)	Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3 coats (Main Gate)	%Sft	16384.42		
128	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PIFD,Johar Town Lahore)	%Cft	94119.89		
129	C-6/56	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistency / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.	P.Ltr	14143.83		
130	NSI	Providing and fixing steel Fire Rated Emergency Exit Door ,Door manufactured as per NFPA 252 & UL 10C standards Steel Door (MS) Size: 60" x 96" Double Leaf door, Filled with fire-rated material With Inner Steel Stiffeners for reinforcement. Door Leaf 1.2-1.5mm, Door Frame 1.5- 2.0mm, Accessories: Hinges, Panic Bar On single Leaf, SS Handle, Glass 12x24 ft, and Door closer including carriage complete in all respect as approved & directed by the Engineer/ Incharge. (Techno or Equivalent)	Each	5.00		
131	NSI	Providing, fabricating, fixing of M.S louvered open able panel on service duct including the cost of one coat of red oxide and approved 3 coat of enamel paint. Complete in all respect as per drawing or as directed by the Engineer in charge.	P.Sft	640.84		
132	NSI	Providing and laying wash terrazzo 3/8" thick of approved quality matching of approved color including aluminium U channel 3/8"x3/8" for groves, as shown in drawings. Complete in all respect as per drawing or as directed by the Engineer in charge.	P.Sft	18022.50		
133	NSI	Providing and installing windows Vertcial roller blinds including all hardware required complete in all respect as approved & direction by the Engineer Incharge.	P.Sft	5777.3		
134	NSI	Providing and applying of 2 coat of Acrylic Re-enforced Cementitious water proofing & Protective Coating (ConFlex 515) Complete in all respects.(Bath)	P.Sft	13541.61		
135	NSI	Providing and fixing Stainless Steel (24 SWG) Letters 18" in height with CNC laser cutting i/c all hardware required complete in all respect as per drawings and direction of Engineer In-charge.	Each	30.00		
136	NSI	Providing and fixing Stainless Steel Logo 42" in height with colour print including the cost of fitting accessories complete in all respect as per drawings and approval of Engineer Incharge.	Each	1.00		
137	NSI	Providing and fixing stainless steel mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	6500.00		
<b>GRAND TOTAL OF CIVIL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**ENGINEER'S COST ESTIMATE**

**PUBLIC HEALTH WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		<b>SANITARY FIXTURES AND FITTINGS</b>				
1	Ch 19/3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection,thimble,seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	56.00		
2	Ch 19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	Each	10.00		
3	Ch 19/13 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. i) white	Each	10.00		
4	Ch 19/10-(i)	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling:- i) 60x45 cm (24"x18")	Each	7.00		
5	19/16	Providing and fixing, chromium plated soap dish.	Each	52.00		
6	19/18	Providing and fixing, chromium plated toilet paper holder.	Each	56.00		
7	19/19 (i)	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	28.00		
8	Ch 19/20	Providing and fixing looking glass 55x40 cm (22"x16") size,and minimum 5 mm thick, first quality	Each	52.00		
9	Ch 19/21	Providing and fixing glass shelf 60x13 cm (24"x5"), with 5mm thick glass i) glass shelf only, without chromium plated brackets and railing.	Each	30.00		
10	19/35 (ii)	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	74.00		
11	19/34	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-ii) 10x7.5 cm (4"x3")	Each	74.00		
12	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	7.00		
13	19/7 (v)	Providing and fitting glazed earthen ware wash hand basin /vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin	Each	57.00		
14	19/30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	87.00		
15	19/5-ii	Providing and fixing chromium plated bottle trap with waste pipe, etc. complete ii) 4 cm (1½")	Each	5.00		
16	Ch 19/49 b (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (b) Multi-Trap (i) 4" dia	Each	20.00		
17	Ch 19/49 d (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (d) Clean Out (i) 4" dia	Each	20.00		
18	Ch 19/49 d (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (c) Vent Cowel (i) 4" dia	Each	40.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
19	19/52 (v)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower	Each	56.00		
20	19/52 (iii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock	Each	40.00		
21	19/52 (iv)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iv) Open Type Wall Shower	Each	25.00		
22	19/52 (ii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (ii) Lever Type Basin Mixer	Each	70.00		
23	19/25 (ii)	Providing and fixing chromium plated stop cock,heavy:- ii) 1.5 cm (½")	Each	160.00		
24	19/27 (ii)	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	56.00		
25	Ch 23/47	<b><u>WATER SUPPLY PIPES AND FITTINGS</u></b>				
		Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				
	i	20 mm dia.	P.Rft	1,800.00		
	ii	25 mm dia.	P.Rft	4,500.00		
	iii	32 mm dia.	P.Rft	2,500.00		
	iv	40 mm dia.	P.Rft	2,200.00		
	v	50 mm dia.	P.Rft	400.00		
	vi	63 mm dia.	P.Rft	750.00		
26	Ch 19/47	<b><u>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</u></b>				
		Providing, fixing, testing and commissioning of μ-PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specificationsand/or as approved and directed by the Engineer Incharge				
	iv	82 mm dia.	P.Rft	3,000.00		
	v	110 mm dia.	P.Rft	4,500.00		
27		<b><u>VALVES</u></b>				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	i	1/2 inch	Each	10.00		
	ii	3/4 inch	Each	14.00		
	iii	1 inch	Each	129.00		
	iv	1-1/4 inch	Each	57.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
	v	1-1/2 inch	Each	21.00		
		<b>GEYSER</b>				
28	Ch 19/56 (i)	Supply & Installation of Duel (Electric and Gas Water Heaters) with factory-installed pressure relief valve, adjustable water temperature control thermostate, Copper connections for specific capacity having leaving water temperature 140 deg F & working pressure 15 PSI, Ambassador/Canon or approved manufacturer i/c cost of all accessories to complete the job as per specification and standards & making connection, complete in all respect as approved and /or directed by Engineer Incharge. (i) 35 Gallon Capacity	Each	9.00		
29	Ch 19/56 (ii)	Supply & Installation of Duel (Electric and Gas Water Heaters) with factory-installed pressure relief valve, adjustable water temperature control thermostate, Copper connections for specific capacity having leaving water temperature 140 deg F & working pressure 15 PSI	Each	1.00		
	Ch 24/1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.				
	2	Medium Quality				
	c	1 inch	Each	190.00		
	f	2 inch	Each	90.00		
		<b>FIRE EXTINGUISHER</b>				
	Ch 23/33-a)	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material ).	Each	3.00		
30		<b>VALVES</b>				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	i	1/2 inch	Each	10.00		
	ii	3/4 inch	Each	14.00		
	iii	1 inch	Each	129.00		
	iv	1-1/4 inch	Each	57.00		
	v	1-1/2 inch	Each	21.00		
31	23/33-a	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material ).	Each.	3.00		
32	23-61	Providing, laying, testing and commissioning of Grade-B, M S Seamless Schedule pipe of nominal diameter, conforming to ASTM-A106, Lontrin/ Hufaz / Pecificbaol ai or approved equivalent manufacturer, duly welded i/c the cost of specials complete as approved and directed by the Engineer Incharge.				
	vii	2-1/2"	Rft.	677.00		
	ix	4" dia	Rft.	812.00		
33	23-64	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
	i	Dry Chemical Powder capacity 6 Kg	Each	6.00		
	ii	CO2 Capacity 5 kg	Each	6.00		
34	NSI	Providing and fixing, floor trap of PVC, including concrete chamber all round, and C.I. grating:- (Master, sonex or Equivalent).	Each	2.00		
35	NSI	Providing and fitting Chromium plated floor Trap Jali 6"x6" double filter National and as approved by the Engineer incharge complete in all respect.	Each	2.00		
36	NSI	Supply and fixing, Motor Pump 1 Hp Shahzad company or Equivalent complete in all respects as approved by the Engineer Incharge.	Each	2.00		
37	NSI	Providing and fixing of Pedrollo F 32/200C 5.5 HP Centrifugal motor pump or Equivalent having 50mm suction and 200m head (non-automatic) from approved manufacturer complete in all respect as per approval of Engineer Incharge.	Each	2.00		
38		<b>MANHOLE</b>				
39	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.	Job	10.00		
40	NSI	Providing, installing, testing and commissioning fire hose reel cabinets, swing type hose reel in cabinet, Dia 1" x 100' long, swing type with imported high pressure PE pipe house, and imported jet/spray/shut nozzle, in steel cabinet (34" x 32" x 10.5") where indicated on drawings including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	No.	12.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
41	NSI	Providing, Fixing ,testing & installing pump set for water booster with VFD of the following capacity Pressure booster (Multistage) pump with 20 GPM flow, 30 ft head provided with strainer, NRV, Gate Valve, bypass valve, flow meter, dry run protection, low voltage protection, phase reversal protection IP 54, including main switch, all required fuses,, provided with all necessary accessories.	Nos.	1.00		
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**ELECTRICAL WORKS**

**BILL OF QUANTITIES**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1		<b><u>WIRING IN CONCEALED CONDUITS</u></b>				
i)	ch/24-11(a-i)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	48,363.00		
a	ch/24-11(a-iii)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	1,584.00		
ii)	ch/24-11(a-iv)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	21,371.00		
	ch/24-3(ii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	18,400.00		
ii)	ch/24-3(iii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	12,472.00		
2		<b><u>LT CABLES</u></b>				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
ii)	ch/24/14 (c-vi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm sq (7/0.052")	R.Ft	360		
	ch/24/14 (c-vii)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vii) 16 mm sq (7/0.064")	R.Ft	90		
iv)	ch/24/14 (c-xiii)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- ix) 25 mm sq (19/0.052")	R.Ft	50		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	ch/24/14 (c-xvi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xiii) 240 mm sq (37/0.114")	R.Ft	200		
<b>3</b>		<b><u>GROUNDING SYSTEM</u></b>				
i)		<b><u>Grounding Cables</u></b>				
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/13 (ii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iii) 10 mm sq (7/0.052")	R.ft	450		
a	ch/24/13 (iv)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iv) 16 mm sq (7/0.064")	R.ft	50		
c	ch/24/13 (ix)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- viii) 95 mm sq (37/0.072")	R.ft	200		
<b>4</b>		<b><u>CONDUITS, PIPES, DUCT , CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</u></b>				
		Supply, installation, testing and commissioning of following conduits laid under floor for telephone/ data cables , optical fiber cables, Sub main power cables & earth cables including all conduit accessories. The PVC conduits shall be laid under floor including chiseling and cutting of floor for required dimensions, laying of conduit, backfilling of remaining cavity with CC as specified for floor in that area, making good, complete in all respect. conduit made of solo, popular, easyfit or equivalent as approved by engineer incharge.				
i)		<b><u>PVC Conduit</u></b>				
a	ch/24/3 (v)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 40 mm i/d	Rft	300		
b	ch/24/6 (i)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 50mm	Rft	400		
c	ch/24/6 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 50mm	Rft	240		
<b>5</b>		<b><u>DISTRIBUTION BOARDS</u></b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent approved by engineer incharge.				
		All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of Schneider, Terasaki or equivalent approved by engineer incharge				
i)		<b><u>MAIN-DB</u></b>				
	ch24-94(a-i)	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). i) LT Switchboards (a) 2.50 Ft deep (i) 300~600A	CFT	9		
		<b><u>INCOMING</u></b>				
	ch24-89/(a-x)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (x) 300-630 Amp (36 KA)	Each	1		
		<b><u>OUTGOING</u></b>				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
	ch24-89/(a-ii)	a) Triple Pole (ii) 15-100 Amp (10 KA, 15 KA)	Each	16		
	ch24-88/(b-ii)	a) Double Pole (MCB) (ii) 6-63 Amp (6 KA)	Each	2		
ii)		<b><u>LP-DBs</u></b>				
	ch24-93(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural &	P.CFT	18		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		<b>INCOMING</b>				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	7		
		<b>OUTGOING</b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	140		
ii)		<b>AC-DBs</b>				
	ch24-93(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	P.CFT	18		
		<b>INCOMING</b>				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	6		
		<b>OUTGOING</b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	125		
6		<b>MISCELLANEOUS FITTINGS</b>				
		Providing and fixing Pakistan Energy Label NEECA approved Copper winded Ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch24-107/(iii)	(a) Ceiling Fan (iii) 56" dia	Each	171		
	ch24-106/(ii)	(a) Bracket Fan (ii) 24" sweep dia	Each	2		
	ch24-105/(a-ii)	(a) Plastic body (ii) 12" dia	Each	11		
7		<b>WIRING ACCESSORIES</b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Legrand / ABB / Schenider or approved equivalent manufacturer, screws complete as approved and directed by the Engineer Incharge				
		(a) One way Gange Switch				
	ch24-108 (a-vi)	(vi) Fan Dimmer	No.	171		
	ch24-108 (a-ii)	Small (ii) 02 Gange	No.	25		
	ch24-108 (a-iii)	Small (ii) 03 Gange	No.	65		
	ch24-108 (a-iv)	(iv) Three pin Light Plug 10/13 Amp	No.	461		
	ch24-108 (b-i)	Large (i) 04 Gange	No.	135		
	ch24-108 (b-iii)	Large (iii) 06 Gange	No.	115		
	ch24-108 (a-viii)	(viii) Three Pin Power Plug 15-32 Amp	No.	21		
	ch24-108 (a-ix)	20A DP switch for AC	No.	35		
	ch24-108 (c-i)	Two way Gange Switch (Small) (i) 01 Gange Two way	No.	18		
		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge				
	ch24-110 (i)	(i) Small	No.	261		
	ch24-110 (ii)	(ii) Large	No.	250		
8		<b><u>Fire Alarm System</u></b>				
		<b><u>Manual Call Point</u></b>				
	ch 24-166	Supply,Installation and commissioning with Addressable BreakGlassunit, (Manual Call Point) withkey typeEN-54 having a built inshort circuit isolator and microprocessor to ensure are sponse time of max.1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/Bosch/Eaton(UK) or as approved and directed by the Engineer Incharge	Each	20		
		<b><u>Sounder</u></b>				
	ch 24-167 (i)	Supply,Installation and commissioning with Addressable type Indoor Loop Powered electronic Sounder/ Flasher/ Bell EN-54 with minimum sound output 100 dB at 1meter with frequencies of variety of sounds as required and shall be loop wired and loop signaled, built inshortcircuit isolator,configured via software made of Honeywell/Bosch/Eaton(UK) or as approved and directed by the Engineer Incharge (i) With Buzzer	Each	20		
		<b><u>Smoke Detector</u></b>				
	ch 24-168 (ii)	Supply, installation and commissioning of Addressable Optical Smoke Detectors EN-54, incorporating an LED indication located inlabyrinth within the housing of the detector.Sensing unit,adjustable via software between 0-90 seconds having built inshort circuit isolators on both inputs. makeHoneywell/ Bosch/Eaton(UK), or equivalent including the cost of all other accessoriesas required, approved and directed by the Engineer Incharge. ii) Dual Detector	Each	146		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		<b><u>Heat Detector</u></b>				
	ch 24-168 (ii)	Supply, installation and commissioning of Addressable Heat Detectors incorporating an LED indication located in labyrinth with in the housing of the detector.adjustable Sensing unit via software between 0-90 seconds. The detector shall have built in short circuit isolators on both inputs.made of Ademco/ Honeywell/ Bosch/ Eaton (UK) or equivalent as approved and directed by the Engineer Incharge. ii) Rate of Rise (ROR) Heat Detector to sense sudden increase in Temp.	Each	5		
		<b><u>FACP</u></b>				
	ch 24-171 (ii)	Supply, installation and commissioning of wired/wireless Addressable Micro processor based Fire Alarm Control Panel (FACP) capable of PC interface with window conforming to EN-54, consisting of specified loop circuits having 240 device per loop, indicating circuits,built in power supply with backup batteries,alarm and trouble indication,silence alarm and reset system, general alarm and reset system,general alarm facility.Made of Eurotech Fire UK, NotifireUSA, SimplexUSA. complete in all respect as approved and directed by Engineer Incharge. (ii) FACP2-Loop	Each	1		
		<b><u>Cable</u></b>				
		Supply,Installation and commissioning of wiring with specified Fire Resistant Shielded Cable (Fire Rating for 2 hours) of required size from respective DB to Fire Alarm FACP (Fire Alarm Control Panel) in pre-laid conduit/duct. Make Pony/ Belden/ Covican (Italy) or equivalent as				
	ch 24-165 (ii)	2C,1.5 mm sq	Rmtr	1,150		
<b>7</b>		<b><u>Air Conditioning</u></b>				
		Providing, shifting, fixing, testing, commissioning, adjusting and balancing of standard ( Cool only) DC inverter technology air conditioning units, including indoor evaporating and out door condensing unit, the indoor units wall mounted of capacities as specified below, complete with factory charged refrigerant, piping insulation including condensate copper piping connection, between indoor/outdoor units conduiting and any additional charge of refrigerant accessories, and Drain piping upto nearest drain water line included in these rates making the job complete in all respect. AC should be of Haier,dawlance, gree or equivalent, copper piping should be of muller, trox and insulation of Durkflex or equivalent, Drain pipe should be 3/4" dia pvc pipe of master, turkplast or equivalent as approved by engineer incharge				
		1/4 and 1/2 copper piping should be used till 1.5 ton AC and 5/8 and 3/8 piping should be used for 2 ton AC and 3/8 and 1/2 for 4 ton AC between indoor and outdoor unit.				
		The AC Unit should maintain approx 11 BTU per cubic feet plus addition of 3000BTU in the total amount for persons and devices				
<b>9</b>		<b><u>AC Copper Piping</u></b>				
		Supply & installation closed cell type Aluminium foil faced XLPE (Cross linked polyethylene) polyolefin pipe insulation tube of density 25 Kg/m <sup>3</sup> of specified thickness & thermal conductivity 0.035 w/m °C and fire retardent of Class "o" rating as specified for refrigerant copper piping as approved by the Engineer Incharge. a) 20 mm thick				
	ch27-21(a-i)	(i) 1/4" dia	MTR	75		
	ch27-21(a-ii)	(ii) 3/8" dia	MTR	100		
	ch27-21(a-iii)	(iii) 1/2" dia	MTR	75		
	ch27-21(a-iv)	(iv) 5/8" dia	MTR	100		
<b>10</b>		<b><u>Control Wire</u></b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	ch24-13(b-iii)	Supply and erection of copper conductor cables for serviceconnection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- b) PVC insulated, PVC sheathed 3 core, 660/1100 volt cable: iii) 7/0.74 mm (7/0.029")	MTR	45		
11		<b><u>Drain Pipe</u></b>				
	ch23/47(a-i)	Providing,laying,testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). a)PN-16 pipe (i)(1/2") 20 mm	MTR	150		
12		<b><u>Fixtures &amp; Fittings</u></b>				
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, surface mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027C 900 Lumens 11W or equivalent)	No.	170.00		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, recessed mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027B or equivalent)	No.	310.00		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18W Essential SmartBright LED Gen2 DN027B Warm Light or equivalent)	No.	66.00		
	NSI	Supply, Installation, testing and commissioning of following Self contained battery operated "Emergency light" with 1x10 Watts rod make Pierlite, Menvier, Gent or approved equivalent to be installed on wall or as shown on drawings.	No.	63.00		
	NSI	Supply, Installation, testing and commissioning of following Outdoor Water Proof IP Rated with metal finish casing with 12W LED Bulb comeplete in all aspect.	No.	23.00		
	NSI	Supply, Installation, testing and commissioning of following Planter Light Point along with Flood Light .30 W Make Sunlight/ Osaka/	No.	16.00		
	NSI	Supply, Installation, testing and commissioning of following Flanged Type IP-44 16 A 3 Pole Socket with all mounting acessories complete in all aspect	No.	8.00		
13		<b><u>Telephone System</u></b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Wiring for each telephone point in M.S box on wall with 4 pair telephone cable Cat. 5e UTP, manufactured by KRONE, CLIPSAL, 3M from respective EPABX's/TJB's to telephone point in and including cost of 25mm dia. PVC conduit heavy duty make Dadex, Beta or as specified in Annexure "A" recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, including RJ11 Face plat make clipsal, Krone or approved equivalent with back box, complete in all respects. Maximum 4 telephone cables each of 4 pairs can be pulled through 25mm dia PVC conduit.	No.	12.00		
	NSI	Supply, Installation, testing and commissioning of 25 Pair telephone junction box along with 25 Pair Cable (TJB) made of 16 SWG sheet metal steel, Powder coated and having hinge cover with lock suitable arrangement for incoming and out going cables with patching arrangement to make system operational complete in all respects as per specifications and to the entire satisfaction of the Engineer.	No.	1.00		
	NSI	Supply, Installation, testing and commissioning of Telephone Extension System (PABX)capable of supports Upto 3 or more CO lines and 24 extensions with Direct inward system access (DISA) with mesaage,3-level automatic reception with voice guidance Uniform call distribution (UCD) with message Day/Night/Lunch mode,Caller ID Display on SLT,Build-in voice message. MAKE Panasonic	No.	1.00		
<b>14</b>		<b><u>Data Networking &amp; Wifi System</u></b>				
	NSI	Wiring for each data point in M.S box on wall with 4 pair Data Cable Cat. 6 UTP, manufactured by KRONE, CLIPSAL, 3M from respective EPABX's/TJB's to telephone point in and including cost of 25mm dia. PVC conduit heavy duty make Dadex, Beta or as specified in Annexure "A" recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, including RJ45 Face plate make clipsal, Krone or approved equivalent with back box, complete in all respects. Maximum 4 telephone cables each of 4 pairs can be pulled through 25mm dia PVC conduit.	No.	170.00		
	NSI	Supply at site, installation, testing and commissioning of 10/100/1000 24 ports Gigabit Smart Switch have a facility of power over ethernet (PoE) complete in all respects, as per drawings and specification.MAKE TPLINK, DLINK/ Huwaei equivalent	No.	9.00		
	NSI	Supply at site, installation, testing and commissioning of 24 Ports CAT 6 UTP Patch Panel With Rear Cable Management Tray, Patch Cords CLIPSAL or 3M or equivalent	No.	9.00		
	NSI	Supply at site, installation, testing and commissioning of wireless access point capable of coverage along corridors of 450Mbps, 2.4GHz 450Mbps, 5Ghz 867 Mbps Contractor should perform coverage anaylsis before installing access points. Should be complete in all aspect with all mounting accessories. MAKE Ubiquiti/ TPlink or equivalent	No.	16.00		
	NSI	Supply at site, installation, testing and commissioning of Desktop computer/Server CPU as per requirements of Wireless solution provider including 19" monitor, IO devices for managing the controller with suitable power supply backup UPS for 2 hours battery backup including all necessary accessories complete in all respect.	No.	1.00		
	NSI	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc including all installation accessories as per specification complete in all respect to the approval of engineer. Data Rack 9 U	No.	1.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc including all installation accessories as per specification complete in all respect to the approval of engineer. Data Rack 6 U	No.	5.00		
<b>15</b>		<b><u>TV System</u></b>				
	NSI	Supply, installation, testing and commissioning of RG-6 co-axial cable and wiring for MATV system from <b>TV Junction Box (TVJB)</b> on floor as shown in riser to room TV outlet face Plate, back box 16 SWG 2 coats of antirust paint, PVC conduit 25mm dia from splitter to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	No.	16.00		
	NSI	Supply, wiring and conduiting of RG-11 co-axial cable from <b>Main JB and to booster</b> and from splitter to splitter in 25 mm dia PVC conduit/Cable Tray, complete with all installation accessories along with booster 8 and 4 and 2 way way splitters, as per the specifications and drawings and approval by the Engineer.	No.	1.00		
<b>16</b>		<b><u>WIRING ACCESSORIES</u></b>				
		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of TJ, HiLife or equivalent approved by engineer incharge				
i)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	171		
<b>17</b>		<b><u>Fire Alarm System</u></b>				
i)		<b><u>Programming, Testing and Commissioning</u></b>				
	NSI	Programming, Testing and Commissioning of Complete system by authorized certified company complete in all respects as per instructions of the Engineer.	Job	1		
<b>18</b>		<b><u>Fire Extinguishers</u></b>				
	NSI	Supply & installation of 1 x 6kg DCP CO2 Fire Extinguishers installed as per instructions of Cleint, complete with wall hanging and mounting arrangement complete in all respects. Complete in all respect as per instructions by site engineer	Nos.	30		
<b>19</b>		<b><u>GROUNDING SYSTEM</u></b>				
i)		<b><u>Grounding Plate</u></b>				
	NSI	Ground electrode for the Grounding of LT electrical system . The Ground electrode shall comprise 600 x 600 x 6mm Thick Copper plate with Four nos. 1/2 inch dia copper nuts, bolts and washers, 02 Nos 70sqmm bare stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet long), lime and charcoal (Ratio 1:3), inspection chamber (CC 1:4:8), light duty CI cover, excavation & backfilling, all accessories as per site requirements & as directed by the Engineer, complete. A pit of dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the ground. The lime and charcoal shall be mixed throughly in the ratio of 1:3 with ONE foot thick hard packed bed in pit. The Copper plate with Grounding leads shall be placed vertically above the lime and charcoal bed. The 2nos. 70sqmm single core stranded Grounding leads shall be connected diagonally to the nuts and bolts on the copper plate, brought out through the GI pipe upto the first grounding connection point.	No.	1		
<b>20</b>		<b><u>Grounding Connection Point</u></b>				
	NSI	Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		
iii)		<b><u>Testing and commissioning</u></b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	1		
<b>21</b>		<b>Duct Panel</b>				
		Supply at site and installation of dura duct on wall where necessary on per instruction of engineer incharge				
i)	NSI	16 x 16 mm	Rmtr	250		
ii)	NSI	16 x 25 mm	Rmtr	150		
<b>22</b>		<b>Air Conditioner</b>				
		Supply at site with installation, testing and commissioning of Split AC Unit				
	NSI	1.5 Ton	Nos.	16.00		
	NSI	2 Ton	Nos.	24.00		
<b>23</b>		<b>Passenger Lift</b>				
	NSI	Supply, installation, testing and commissioning of brand new fully imported Edunburgh Brand, Orion or Equivalent as per specifications. 1 Elevator Type Passenger Motor Drive Elevator A.2 Application College Building A.3 Shaft Structure Concrete Shaft A.4 Shaft Size 8.9 Feet x 6 Feet A.5 Machine Room Directly above the shaft A.6 Mechanism Gearless A.7 Travel Height 27.5 meter Approx A.8 Elevator Capacity 630 Kg A.9 Floors/Doors/Stops 7 Floors / 7 Doors / 7 Stops A.10 Elevator Machine 3.9 Kw, Motor Drive A.11 Control System VVV3F, Collective Selective, 380v AC, 24v DC Operation. A.12 Cab & Door Interior Cabin & Door Full support of tempered glass with HSS Frame Center Opening Fully Auto full SS door A.13 Standard This elevator as designed according to EN81-1 & meet all the requirements of CE certification A.14 Safety Standard EN-81-1 (C Union Safety Code for Elevators) as approved or directed by engineer incharge.	Job	1		
<b>24</b>		<b>Cargo Lift</b>				
	NSI	Supply, installation, testing and commissioning of brand new fully imported Edunburgh Brand, Orion or Equivalent as per specifications. 1 Elevator Type Passenger Motor Drive Elevator A.2 Application College Building A.3 Shaft Structure Concrete Shaft A.4 Shaft Size 8.9 Feet x 8.3 Feet A.5 Machine Room Directly above the shaft A.6 Mechanism Gearless A.7 Travel Height 27.5 meter Approx A.8 Elevator Capacity 1600 Kg A.9 Floors/Doors/Stops 7 Floors / 7 Doors / 7 Stops A.10 Elevator Machine 3.9 Kw, Motor Drive A.11 Control System VVV3F, Collective Selective, 380v AC, 24v DC Operation. A.12 Cab & Door Interior Cabin & Door Full support of tempered glass with HSS Frame Center Opening Fully Auto full SS door A.13 Standard This elevator as designed according to EN81-1 & meet all the requirements of CE certification A.14 Safety Standard EN-81-1 (C Union Safety Code for Elevators) as approved or directed by engineer incharge.	Job	1		
<b>GRAND TOTAL OF ELECTRICAL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION  
AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**GUARD ROOM**

**SUMMARY OF COST**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	<b>TOTAL OF GUARD ROOM</b>	

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(2)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) in ordinary soil.	%0Cft	1157.50		
2	3/13/a	a) Lead upto a single throw of Kassi, phaorah or shovel	%0Cft	578.75		
3	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	1515.00		
4	6/5/i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(i) Ratio 1: 4: 8	%Cft	252.50		
5	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	886.88		
6	C-6/37(a-ii)	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	292.50		
8	C-6/39(a-ii)	Providing and laying Vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge :- ii) Ratio 1:3 b) ¾ " thick (20mm)	%Sft	240.00		
10	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	1302.23		
11	C-7/5(i) + 6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	418.50		
12	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	Cft	339.83		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	100Kg	1395.01		
14	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	725.00		
15	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor + First Floor)	%Sft	2480.31		
16	C-11/9(c)	Cement plaster 1:4 upto Ground Floor Slab:- c) ¾" (20 mm) thick. (External)	%Sft	2673.00		
17	10/3	Supplying and filling sand under floor; or plugging in wells.	%Cft	297.50		
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	%Cft	241.04		
19	6/5/f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	%Cft	121.27		
20	C-10/23(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Ground Floor	%Sft	600.00		
21	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Ground Floor	%Sft	124.74		
22	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	3673.00		
23	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	3673.00		
24	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	2398.00		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
25	12/49/i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- i) M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	P Sft	119.00		
26	12/59	Providing and fixing Vin board cabinet ¾" 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.iv) 2' deep,with back	P Sft.	20.00		
27	25/31	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and ¾" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.	P Sft.	63.00		
28	C-12/60(b) - (ii)	P/F ¾" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge. (ii) 12" (300 mm) long	Each.	4.00		
29	C-12/22	Providing and fixing, approved quality mortice lock	Each.	4.00		
30	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	364.00		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
31	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P Sft.	90.69		
32	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P Sft.	90.69		
33	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P Sft.	90.69		
34	9/35/iii	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	595.00		
35	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each.	4.00		
36	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each.	4.00		
37	C-10/24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	Sft	125.00		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE****(COVERED AREA = 47000 SFT)****BILL OF QUANTITIES****CIVIL WORKS****MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
38	C-10/25 (i)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Sft	400.00		
39	C-10/52 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick	Sft	13.31		
40	C-7/37	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"	Sft	528.00		
<b>GRAND TOTAL OF CIVIL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**PUBLIC HEALTH WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	Ch 19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	Each.	2		
2	Ch 19/13 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. i) white	Each.	2		
3	Ch 19/10- (i)	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling:- i) 60x45 cm (24"x18")	Each.	1		
4	19/29/ii	Providing and fixing chromium plated shower rose:- ii) 2x15 cm (¾"x6")	Each.	1		
5	19/30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each.	2		
6	19/24/ii	Providing and fixing chromium plated pillar-cock, heavy:- ii) 1.5 cm (½")	Each.	2		
7	19/28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each.	2		
8	19/18	Providing and fixing chromium plated toilet paper holder.	Each.	2		
9	19/19 (i)	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each.	1		
10	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each.	2		
11	19/34	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-ii) 10x7.5 cm (4"x3")	Each.	4		
12	19/35 (ii)	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	4		
13	19/27/i	Providing and fixing chromium plated bib cock:- i) 2 cm (¾")	Each.	2		
14	19/32/ii	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia. ii) two way	Each.	1		
15		<b>WATER SUPPLY PIPES AND FITTINGS</b>				
	Ch 23/48	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**PUBLIC HEALTH WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
	i	20 mm dia.	P.Rft	15		
	ii	25 mm dia.	P.Rft	26		
	iii	32 mm dia.	P.Rft	62		
	iv	40 mm dia.	P.Rft	15		
16		<b>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</b>				
	Ch 19/48	Providing, fixing, testing and commissioning of $\mu$ -PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and/or as approved and directed by the Engineer Incharge				
	iv	82 mm dia.	P.Rft	15		
	v	110 mm dia.	P.Rft	50		
17		<b>VALVES</b>				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	iii	1 inch	Each	3		
	iv	1-1/4 inch	Each	4		
18	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.	Job	2		
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**ELECTRICAL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
<b>1</b>		<b>WIRING IN CONCEALED CONDUITS</b>				
	ch/24-11(a-i)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	690		
	ch/24-11(a-iii)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	130		
	ch/24-11(a-iv)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	250		
	ch/24-3(ii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	115		
	ch/24-3(iii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	240		
<b>2</b>		<b>LT CABLES</b>				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
	ii) ch/24/14 (c-vi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm sq (7/0.052")	R.Ft	50		
<b>3</b>		<b>GROUNDING SYSTEM</b>				
i)		<b>Grounding Cables</b>				

		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description ) in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
a	ch/24/13 (ii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in pre-laid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iii) 10 mm sq (7/0.052")	R.ft	50		
<b>4</b>		<b><u>DISTRIBUTION BOARD</u></b>				
		<b><u>INCOMING</u></b>				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b><u>OUTGOING</u></b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in pre-laid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	3		
<b>5</b>		<b><u>MISCELLANEOUS FITTINGS</u></b>				
		Providing and fixing Pakistan Energy Label NEECA approved Copper wined Ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch24-107/(iii)	(a) Ceiling Fan (iii) 56" dia	Each	2		
	ch24-106/(ii)	(a) Bracket Fan (ii) 24" sweep dia	Each	2		
	ch24-105/(a-ii)	(a) Plastic body (ii) 12" dia	Each	2		
<b>6</b>		<b><u>WIRING ACCESSORIES</u></b>				
		P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Legrand / ABB / Schenider or approved equivalent manufacturer, screws complete as approved and directed by the Engineer Incharge				
		(a) One way Gange Switch				
	ch24-108 (a-vi)	(vi) Fan Dimmer	No.	2		
	ch24-108 (a-ii)	Small (ii) 02 Gange	No.	1		

	ch24-108 (a-iv)	(iv) Three pin Light Plug 10/13 Amp	No.	3		
	ch24-108 (b-i)	Large (i) 04 Gauge	No.	2		
	ch24-108 (a-viii)	(viii) Three Pin Power Plug 15-32 Amp	No.	1		
		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge				
	ch24-110 (i)	(i) Small	No.	3		
	ch24-110 (ii)	(ii) Large	No.	2		
<b>8</b>		<b>Fixtures &amp; Fittings</b>				
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, surface mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027C 900 Lumens 11W or equivalent)	No.	6		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, recessed mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027B or equivalent)	No.	4		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18W Essential SmartBright LED Gen2 DN027B Warm Light or equivalent)	No.	6		
<b>GRAND TOTAL OF ELECTRICAL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION  
AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**SUMMARY OF COST**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
<b>3.</b>	<b>EXTERNAL DEVELOPMENT</b>	
<b>i</b>	<b>TUBEWELL ROOM WITH MECHANICAL WORKS</b>	
<b>ii</b>	<b>BOUNDARY WALL</b>	
<b>iii</b>	<b>PARKING AND LANDSCAPING AREA</b>	
<b>iv</b>	<b>DRAINAGE</b>	
<b>v</b>	<b>FIRE FIGHTING PUMP ROOM</b>	
<b>vi</b>	<b>EXTERNAL PLUMBING WORKS</b>	
<b>vii</b>	<b>EXTERNAL ELECTRICAL WORKS</b>	
	<b>External Civil Works      TOTAL</b>	

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND  
DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**TUBEWELL ROOM WITH MECHANICAL WORKS**

**BILL OF QUANTITIES**

**SUMMARY OF COST**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	CIVIL WORKS	
2.	PLUMBING WORKS	
3.	MECHANICAL WORKS	
4.	ELECTRICAL WORKS	
	<b>TOTAL OF TUBEWELL ROOM WITH MECHANICAL WORKS</b>	

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21 (1)-ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead 'upto one chain (30 m) and lift upto 10 ft. (1.5 m) a) By Manual or Excavator: in ordinary soil.	%0 Cft	819.02		
2	C-26/45	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	1,181.40		
3	C-6/5 (i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate) (i) Ratio 1: 4: 8	% Cft	151.39		
4	C-6/6 (a) (i) & (ii) - 3	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	66.83		
5	C-6/6 a-i (3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	127.54		
6	C-6/12 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	% Kg	1,979.40		
7	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	% Cft	596.48		
8	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	273.01		
9	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).	%0Cft	650.53		
10	C-3/17	Transportation of earth all types when the total distance, this rate will be paid inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 7km)				
	a	upto ¼ mile (400 m).	%0Cft	650.53		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	650.53		
	c	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile ( 8 Km).	%0Cft	650.53		
11	C-7/4(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	% Cft	622.88		
12	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- ½" (20 mm) thick. (Internal Ground Floor	%Sft	712.80		
13	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (External)	%Sft	49.30		
14	C-11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-b) ratio 1:3	%Sft	1,190.20		
15	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	200.48		
16	C-11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	% Sft	1,309.22		
17	C-11/23-a-(iii)	Preparing surface and painting with emulsion paint three coats.	%Sft	1028.00		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
18	C-11/22	Priming coat of chalk under distemper.	% Sft	1,826.55		
19	C-10/4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	322.96		
20	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	161.48		
21	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels. 2" (50mm) thick topping of plinth protection.	% Cft	341.29		
22	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	% Sft	200.48		
23	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00		
24	C-10/23(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using Grey cement. Ground Floor	%Sft	200.48		
25	C-10/44(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)	P.Rft	143.34		
26	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using Grey cement : ii) ½"(13 mm) thick	%Sft	19.60		
27	C-10/48 (ii)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over ¾" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. ii) ¾" thick (12"x24"/12"x36") (Tread)	P.Sft	19.80		
28	C-10/48 (i)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over ¾" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. i) ½" thick(12"x12"/12"x24") (Riser)	P.Sft	9.90		
29	C-25/62	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge (ii) Double Leaf	P.Sft	30.80		
30	C-25/42(b)	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1-1/2"x1-1/2" (40x40mm) for frame and 1-1/4"x1-1/4" (30x30mm) for leaves including M.S square bars 1/4"x1/4" (6x6mm) welded around each panel of frame, 5mm thick glass panes fixed with double M.S square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects. For fixed panels without wire gauge.	P.Sft	18.48		
31	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- i) priming coat ii) 2 subsequent coat of paint.	%Sft	158.40		
32	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	66.83		
33	C-26/39(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	588.06		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE****(COVERED AREA = 47000 SFT)****BILL OF QUANTITIES****CIVIL WORKS****MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
34	C-9/36	Providing and fixing AC rain water down pipe 4" (100 mm) dia, with shoe, T-bend, clamp, etc.	P.Rft	25.00		
35	C-23/61	Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge	Each	1.00		
36	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PKLI Site)	%Cft	458.10		
37	C-6/55	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistency / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.	P.Ltr	44.00		
38	NSI	Providing and fixing stainless steel mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	150.00		
39	NSI	Arrangement of the water pit for tubewell boring, with restoration to its original condition post-boring. This includes the application of two coats of polythene sheet in reservoir / well to prevent water penetration into the earth, completed in all respects as per the approval of the engineer in charge.	P.Job	1.00		
40	NSI	Providing and installing RS joist girder W 8x6.5x24 complete as per in all respect, W 8x6.5x24 means joist of 8" depth 6.5 web and 30 lbs/ft weight.	P.Rft	15.00		
41	NSI	Providing and fixing in place M.S cover sheet with frame embedded in slab and 3mm thick 4'-0"x4'-0" M.S plate fixed on it with locking arrangement including 1/2" dia M.S lifting hook, enamel paint complete as per drawing.	Each	1.00		
<b>GRAND TOTAL OF CIVIL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**PLUMBING WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>SR. NO.</b>	<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (RS)</b>	<b>AMOUNT (RS)</b>
1	19/35(ii)	Providing and fixing P.Trap 10 cm (4") glazed	Each	1		
2	C-19/47	Providing, fixing, testing and commissioning of $\mu$ -PV C (Unplasticized Polyvinyl Chloride ) Nikasi/ SWV pipe, D adex / Popular / Beta or approved equivalent manufacturer, plain / Bell Ended / Z - Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of special sand Solvent s complete in all respects, as per drawings & specifications and / or as approved and directed by the Engineer Incharge				
	iii)	a) 50mm dia	Rft	13		
	iv)	b) 82mm dia	Rft	8		
	v)	c) 110mm dia	Rft	18		
	vii)	d) 200mm dia	Rft	18		
3	3/42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawing including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock. 0' to 7'-0" (0 to 2.10m) depth	1000 Cft	280.00		
4	C-3/25 + C-3/15(i)	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture 95% to 100% maximum modified AASHTO dry density. (a)content in layers, etc. complete :Filling, watering, ramming earth under floors (with surplus earth foundation).	1000 Cft	120.00		
5	C-10/3	Supply, filling and compacting sand under and around/over the pipes.	100 Cft	80.00		
6	6/5(i)	Cement concrete plain including placing, compacting, finishing and curring complete (including screening and washing of stone).Ratio 1:4:8	100 Cft	7.00		
7	7/7(i)	Pacca brick work other than building 1:3	100 Cft	36.00		
8	11/8(b)	Cement plaster 1/2" thick 1:3	100 Sft	37.00		
9	21/9	Extra for making and finishing benching floor work in manhole chamber, with 1/8" thick cement finish.	100 Sft	6.00		
10	21/17	Providing and fixing, 6" (150mm) thick R.C.C. manhole cover with 3"x3"x1/4" (75x75x6mm) angle iron frame, 22" (550mm) i/d as per standard drawing STD/PD No. 7 of 1977, complete in all respects.	No.	1		
11	C-21/13	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	No.	3		
<b>GRAND TOTAL OF PLUMBING WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**MECHANICAL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-23/5 (a) (ii)	Direct Rotary / Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock:- from ground level to 151 ft. (46m) below ground level:- ii) 20" to 26" (500 to 650mm) i/d	P.Rft	151		
2	C-23/5(b) (i)	Exceeding 151 ft. (46m) depth below ground level:- ii) 15" to 18" (375 to 450mm) i/d	P.Rft	600		
3	C-23/7	Provide strong substantially built box of deodar wood 4'x2-1/2'x9" (1200x750x225mm), with compartments, lock and locking arrangement for preserving samples of strata from bore hole.	P.Job	1		
4	C-23/8	Furnishing sample of water from bore hole.	P.Set of 2-Bottles	2		
5	C-23/19 (i)	Testing and developing of tubewell of size 6" (150mm) i/d and above continuously. ii) Upto 1.5 Cusec Discharge	P.Hour	65		
6	C-23/20	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3mm), around tubewell in bore hole.	P.Cft	2652		
4	C-23/43	Providing & mixing bentonite clay / powder haveswelling factor of 1200% for lining /seal and plug earthen bore holes / ponds in the specified ratio conforming to IS:6186 for stabilization of soil as specified by the designer etc complete in all respect.	P.Kg	80		
7	C-23/22 (ii) (f)	Supply and install G.I. pipe for gravel make extra shrouding of 2" dia.	P.Rft	280		
8	C-23/53-b(xi)	Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge.(b) Flange Ended Ductile Iron Valve(xi) 6" dia	EACH	1		
9	C-23/51-b(xi)	Providingand fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge (b) Flange Ended Ductile Iron Valve(xi) 6" dia	EACH	1		
10	C-23/55-v	Providing and fixing heavy duty Pressure Relief Valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) integral device with a pressure setting, a restrictor and a sensor all in the one body, i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge. (v) 2-1/2" ia	EACH	2		
11	C-23/28-b(i)	Providing and fixing cast iron specials of B.S.S. Class 'B'(such as bend, tee, cross collar, reducer, tail piece,flanged socket, flanged spigot, cap, taper, angle branch and rubber ring. complete.i) 3" to 6" (75 to150 mm) i/d	P.Kg	350		
12	C-23/24-3(k)	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line in trenches, with flanged joints, using G.I. pipe of B.S.S. 1387-1967 complete in all respects including specials and valves:ii) C.I. flanged joints (Heavy Quality) f) 6" i/d (150 mm)	P.Rft	120		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-23/13-vi	Providing and installing Fiberglass Reinforced Polypropelene (FRP) strainer of specifid wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell borehole i/c the cost of male/female coupling with Nylone Strip.studs complete in all respect as approved and directed by theEngineer Incharge.. 10"dia (6.35mm thickness)	P.Rft	250		
14	C-23/14-vi	Providing and installing Fiber glass Reinforced Polypropelene (FRP) bail plug of specified wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell boreholei/c thecost of male/ femalecoupling with NyloneStrip, studs complete in all respect as approved and directed by the Engineer Incharge. 10"dia (6.35mm thickness)	P.Rft	15		
15	C-23 / 33-b	Providing and fixing, air valve 2½ (65mm) dia of B.S.S quality and weight (complete with jointing material). b) double	Each	1		
16	NSI	Provide and fix vertical shaft turbine pump for 1.00 cusec Tubewell with 50Hp/1450 rpm vertical solid shaft electrical motor, totally enclosed fan cooled, tropically insulated, 3 Phases, 50 Cycles, 380/400 Volts with non-reverse ratchet, make Siemens, insulation class F and temperature rise 80°C above 40°C ambient temperature, Pump Total Head 280 ft, Riser Pipe 6 inches internal dia with flanged joint, pump assembly of 5 stages with mixed flow type impleller, discharge head with 6 inches discharge branch, with Prelubrication tank, including Cast Iron Butterfly Valve, Reflux Valve 6", Mounting Clamps 6" and Motor Control Unit (MCU) equipped with all necessary protection complete with testing and commissioning, pump made by "Flowpak" or Equivalent complete in all respect as approved by Engineer Incharge.	Each	1		
17	NSI	Testing water samples for human consumption at the time of D&T, including cost of determination following (Results to be quoted in mg/l) 1-pH 2-Conductivity (Microhms) 3-"P" Alkalinity (Ca Co3) 4-"M" Alkalinity 5-Total Hardness (Ca Co3) 6-Calcuim Hardness (Ca Co3) 7-Magnesium Hardness (Mg Co3) 8-Cholride as (Cl) 9-Floride as (F) 10-Sulphate (SO4) 11-Nitrate as ( NO3) 12-Iron (Fe) Suspended iron & Dissolved Iron 13-Silica 14-Turbidity 15-Total Solids 16-Suspended Solids 17-Sodium (Na) 18-BOD 19-Micro Biological Contamination(Coliforms) complete in all respect as approved by Engineer Incharge.	Each	3		
18	NSI	Provide, sealing annular space around housing pipe with 1:1 cement slurry (Cement sand mortar) complete in all respect as approved by Engineer Incharge.	P.Cft	412.53		
19	NSI	Furnish and lay 1:2:4 cement concrete block size 3.0'x3.0'x2.0', 2 Nos 1/2" x 6" M.S. flat clamp 3'-3" long laid and fixed with bolts at right angle to each other to support the pump-house casing including 1" dia. holding down bolts complete in all respect as approved by Engineer Incharge.	Each	1		
20	NSI	Provide and fix M.S. cap top plate 13" dia.	Each	1		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
21	NSI	Provide and fix ADVANCE USA series 480 Model # 481C1 Direct Cylinder Mounted Gas Chlorinator by Pak Hydraulic and Trading Co. All Vacuum Operated, Max Capacity 25,50,100 PPD, Feed Ratio 20:1 with all appurtenances for Chlorination of Potable water. 01. Model # VR481C1 Vacuum Regulator with Gas Flow-Meter and Rate Valve, Gas Supply Indicator and Vent for chlorine service consisting of:  o Lead gasketed positive yoke cylinder clamp o 100 PPD (2 Kg/Hr) flow meter o Manual rate valve o Inlet safety shut-off / regulating valve with filter o Regulating diaphragm assembly o Safety relief venting system o 3/8" vacuum tubing connection o 3/8" vent vacuum tubing connection  01. Model # EJ100 C1 Remote Ejector / Check Valve Assembly o 100PPD (2 Kg/Hr) max. capacity o Spring-assisted diaphragm check o 3/4" hose water inlet connection o 3/4" NPT 1" hose universal connection o solution outlet connection o 3/8" tubing vacuum inlet connection 25'-3/8" Vacuum Tubing 25'-3/8" Vent Tubing 12 – Lead Gaskets 01 Multipurpose Wrench 01 Set of Spares Parts of: 02 x OV-11-008 O-Ring, Rate Valve 02 x G-100-3 Flow-Meter Gasket 01 x BM-1023 Replacement Filter Floss 01 x U-300 Insect Screen	No	1		
22	NSI	Supply and Installation of centralizers as per specifications.	No.	10		
23	NSI	Vertical Wall Mounted Manifold Assembly Model # BM-120-2 with 2 Nos, 3/4 Copper Connector, 01 No. Header Valve, 3/4" Drip Leg, 2 Nos. 3/8" Flexible Copper Connector with Mounting Clamp Local Assembled by Pak Hydraulic and Trading Co., complete in all respects.	No.	2		
24	NSI	Provide and install Fibreglass Housing pipe. Including Joint, Fibreglass reducer (where necessary) in tubewell bore hole, complete as per Manufacturer's Specifications. 14" dia (6.35mm thickness)	Rft	180		
25	NSI	Provide and install Fibreglass blind pipe. Including Joint, Fibreglass reducer (where necessary) in tubewell bore hole, complete as per Manufacturer's Specifications. 10" dia (6.35mm thickness)	Rft	560		
<b>Grand Total of Mechanical Works</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**ELECTRICAL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1</b>		<b><u>WIRING IN CONCEALED CONDUITS</u></b>				
		Cable should be of Copper gate, Newage or fast cable and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
	ch 24 -11-i	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 3/0.029"	P.Rft	600		
	ch 24 -11-iii	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 7/0.029".	P.Rft	80		
	ch 24 -11-v	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 7/0.044".	P.Rft	50		
	ch 24 -3-ii	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 3/4" i/d.	P.Rft	150		
	ch 24 -3-iii	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 1" i/d.	P.Rft	60		
	ch 24 -3-vi	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 2" i/d.	P.Rft	10		
	ch 24 -6-iii	Supply and erection of PVC pipe for recessed wiring including bends, specials, etc. in floor, wall or trenches, 4" i/d.	P.Rft	170		
<b>2</b>		<b><u>MS Sheet Box</u></b>				
	ch 24 -17-i	Supply and erection of M.S. sheet box of 16 SWG, 4" deep, with 3/16" thick bakelite sheet, top etc., complete: 4"x4"	Each	4		
	ch 24 -17-ii	Supply and erection of M.S. sheet box of 16 SWG, 4" deep, with 3/16" thick bakelite sheet, top etc., complete: 7"x4"	Each	3		
<b>3</b>		<b><u>MISCELLANEOUS ITEMS</u></b>				
(i)		<b><u>Wall Bracket Fan</u></b>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded bracket Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -106-ii	24" sweep dia.	Nos.	1		
(ii)		<b><u>Exhaust Fan</u></b>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded Exhaust Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -105-i	10" dia. with plastic body.	Nos.	2		
(iii)		<b><u>Ceiling Fan</u></b>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -107-iii	56" dia	Nos.	1		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4		<b>L.T. Power Cables</b>				
		Supply at site, installation, testing and commissioning of PVC insulated PVC sheathed non armoured copper conductor power cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in Annexure in preinstalled cable tray / trenches cables to be installed as per routes shown on drawings including cost of all necessary materials, connections of cables and identification tags at both ends, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.				
	ch 24 -13-c-xiii	4 core 25mm.sq. from existing source to Site-I Tubewell and DBL-TWR.	P.Rft	150		
	C-24/13-d(vii)	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cable only):-d) PVC insulated, PVC sheathed 4 Core, 600/1000 volt :-vii) 50 mm sq (19/0.072)	P.Rft	150		
5		<b><u>DISTRIBUTION BOARDS</u></b>				
		<b><u>Distribution Board "Light/Power" DBL-TWR Installed at Ground Floor</u></b>				
		Fabrication, supply at site, installation, testing, commissioning and connections of wires / cables of Distribution Boards "Light / Power" concealed type to be installed as and where shown on drawing, made of MS sheet 16 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 15 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, including cost of all necessary materials complete in all respects. All DBs mentioned below shall have 3 phase indication lamps transformer type of colour Red, Yellow, Blue and 1-Voltmeter scaled 0-500 V. with Voltmeter selector switch of 7 positions. DBs shall be manufactured by any one of the manufacturers as mentioned in Annexure "A".				
		<b><u>INCOMING</u></b>				
	NSI	1 Nos 80 Amps 4 pole Molded Case Circuit Breaker (MCCB) (25kA).				
		<b><u>OUTGOING</u></b>				
		1 Nos 32 Amps Triple Pole MCBs RC: 6 kA.				
	NSI	6 Nos 10/20 Amps Single Pole MCBs RC: 6 kA for light circuit and power sockets.				
		<b><u>Automatic Star Delta Starter (ASDS) suitable for 30 HP Tubewell Motor each consisting of:</u></b>				
		1 Nos 60 Amps 3 phase and neutral MCCB,suitable for motor operation, RC: 10 KA.				
		3 Nos Triple pole contactors duty category AC-3 with 220 V. no Volt coil suitable for 30 HP motor.				
		1 Nos Bimetallic thermal overload relay with single phasing preventor.				
		1 Nos ON indication lamp.				
		1 Nos Set of ON-OFF push buttons.				
		1 Nos Set of control fuses and terminal.				
		1 Nos 0-60 Seconds timer suitable for operation on 220 V. 50Hz AC.				
	NSI	3 Nos Provision of space for future MCBs RC: 6 kA.	No.	1		
6		<b><u>LIGHT FIXTURES</u></b>				

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
(i)		<b>Fluorescent Fittings</b>				
		Supply at site, Installation, testing and commissioning of the following fluorescent light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enamelled non yellowing paint, complete with ELECTRONIC CHOKES lamp holders, tube rods of colour 86, internal wiring, earthing terminal, to be manufactured by any one of the manufacturers as mentioned in Annexure-"A", including cost of all necessary accessories and materials, complete in all respects.				
	NSI	Make Philips TCW 097/136 or DAMPA with electronic ballast and one rod of 36 Watt	Nos.	4		
(ii)		<b>Incandescent Fittings</b>				
		Supply at site, installation, testing and commissioning of the following incandescent light fittings, complete with brass lamp holders, fixing accessories, earthing terminal, make as specified or by any one of the manufacturers mentioned in Annexure-"A", complete in all respects.				
	NSI	Water tight bulk head light with 20 W. PLCE lamp.	Nos.	4		
7		<b>GROUNDING SYSTEM</b>				
(i)		<b>Earthing System - Bore Type</b>				
		Drilling of earth bore 3" (75mm) dia 80 to 90 ft. deep (24000 to 27000mm) or up to permanent water table, back filling, ramming, complete in all respect. Earthing bores shall be made at 8ft. away from foundation and distance between earth bore shall not be less than 10ft.				
	NSI	Bores for earthing body of DBL-TWR.	Nos.	2		
(ii)		<b>G.I. Pipe</b>				
	NSI	Supply at site and installation of G.I pipe 50mm dia. 14 SWG to be installed in premade bore, all G.I pipe accessories like tees, bends, sockets etc: G.I pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects. Length of pipe shall depend upon the depth of the bore. Payment shall be made as per actual length installed.	RFT	180		
(iii)		<b>Tinned Copper Spike</b>				
	NSI	Supply at site, installation of tinned copper spike make NBI to be manufactured as per detail shown on drawing. Spike shall be installed at bottom of G.I pipe, all G.I nuts and bolts, complete in all respect.	Nos.	2		
(iv)		<b>Copper Conductor</b>				
	NSI	Supply at site, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of purity 99.9%, 25mm.sq. to be installed in pre-laid G.I pipe and connected to tinned copper spike and to test link in man hole and from test link to desired location as per detail shown or as per the instructions of the engineer. 2 Earthing leads shall be installed in G.I pipe, including cost of G.I nuts, bolts, washers, all necessary accessories, complete in all respects. Joints of copper conductor with G.I pipe shall be covered with 3 coats of bitumen. Payment shall be made as per actual length installed.	Rft.	360		
(v)		<b>Earth Connecting Points (ECP)</b>				
	NSI	Supply at site and installation of earth connecting points made of tinned copper plate of size 12" long x 3" wide x 1/2" thick to be installed as and where shown on drawings, complete with fixing arrangement, G.I nuts, bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing circuit protective conductor (CPC).	Nos.	3		
(vi)		<b>Man Hole for Earthing</b>				
	NSI	Construction of man hole 18" x 18" x 24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick man hole cover with lifting hooks and the following words written with paint on manhole cover "EARTHING PIT", complete in all respects. Man holes shall be made on all earthing bores.	Nos.	1		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
(vii)		<b>Testing</b>				
	NSI	Testing of the earthing system with digital "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	Job	1		
<b>8</b>		<b>TELEPHONE SYSTEM</b>				
(i)		<b>Wiring of Telephone Points on Wall</b>				
	NSI	Wiring for each telephone point on wall with 4 pair telephone cable Cat. 6 UTP, manufactured by any one of the following manufacturers CLIPSAL 3M, MOLEX, from TDB to telephone point but excluding cost of 3/4" or 1" dia. PVC conduit, recessed in slabs, floors, walls, columns or on slab above false ceiling or as required as per site conditions, including cost of RJ-45 socket outlet with face plate and I/O, all necessary materials and accessories, complete in all respects.	No.	1		
<b>9</b>		<b>MISCELLANEOUS ITEMS</b>				
(i)		<b>Wall Mounted Fire Extinguisher</b>				
	NSI	Supply at site, installation of fire extinguisher suitable for fire erupted due to electrical short circuit, make Haseen Habib or approved equivalent, including cost of fixing system of fire extinguishers complete in all respects. Fire extinguishers shall be installed in electric rooms of each floor.	Nos.	2		
(ii)		<b>Electric Shock Chart</b>				
	NSI	Supply of electric shock chart fixed on wooden board and hung on wall as per the requirement of Electrical Inspector. Chart shall be installed at Ground Floor.	Job	1		
<b>10</b>		<b>WIRING ACCESSORIES</b>				
(i)		<b>3 Pin 5 Amps Switch Socket</b>				
	NSI	Supply and installation of 3 pin 5 Amps combined switch sockets of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	2		
(ii)		<b>3 Pin 15 Amps Switch Socket</b>				
	NSI	Supply and installation of 3 pin 15 Amps combined switch sockets of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	2		
(iii)		<b>1 Gang 10 Amps Switch</b>				
	NSI	Supply and installation of 1 gang 10 Amps switch of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	6		
(iv)	NSI	Fan Dimmer 250 watt including appropriate size Plastic back box. with all associated accessories.	Nos.	1		
<b>11</b>		<b>CABLE AND TRENCH</b>				
(i)		<b>Circuit Protective Conductor (CPC)</b>				
	NSI	1 core 16mm sq. PVC insulated colour Green / Yellow.	Rft.	600		
(ii)		<b>Excavation of Trench</b>				
	NSI	Excavation of trench approximately 12" wide and 30" deep for laying of 4" dia. PVC pipe, including cost of 4" thick layer of sand beneath and above PVC pipe, refilling of excavation with sweet earth, ramming, watering, cost of labour, materials all necessary accessories, complete in all respects. Rate to be quoted shall be without 4" dia PVC pipe.	Rft.	270		
(iii)		<b>Warning Tape</b>				
	NSI	Supply at site of warning tape made of plastic sheet of orange colour 10" wide to be installed in trench at 12" below finished floor level, all along the trench, including cost of all necessary materials, complete in all respects.	Rft.	270		
<b>GRAND TOTAL OF ELECTRICAL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**BOUNDARY WALL**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

**CIVIL WORKS**

Sr. No	Item No.	Description	Unit	Quantity	Rate (Rs.)	Total Amount (Rs.)
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%Cft	3040.00		
2	26/42	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	3560.00		
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(i) Ratio 1: 4: 8	%Cft	661.00		
		(f) Ratio 1: 2: 4	%Cft	116.00		
4	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	1334.00		
5	7/5/i	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:5 Ratio 1:4	%Cft %Cft	524.00 1838.00		
6		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	C-6/6 c-(2)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	P.Cft	1020.00		
	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	P.Cft	1903.13		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**BOUNDARY WALL**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

**CIVIL WORKS**

<b>Sr. No</b>	<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
7	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	14767.00		
8	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	%Sft	13300.00		
		c) ¾" (20 mm) thick	%Sft	1200.00		
9	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	16900.00		
10	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats				
		i) 1st coat	%Sft	8450.00		
		ii) 2nd coat	%Sft	8450.00		
11	25/73	Providing and fixing barbed wire fencing on compound wall, consisting of 1½"x1½"x3/16" (40x40x5mm) angle iron post 3' (900 mm) long, 4' (1200 mm) apart embedded in cement concrete 1:4:8 base of size 6"x6"x9" (150x150x225 mm) and 4 rows of barbed wire, including binding wire, painting posts, etc. complete in all respects.	%Rft	700.00		
12	C-6/30	Providing and fixing 6 in (150 mm). Wide G.I. sheet 18SWG. stopper to expansion joint.	P. Rft	364.00		
13	C-6/33	Filling expansion joints with bitumen.sand & saw dust in ratio 1:2:2.	P Rft P. inch Width	364.00		
<b>Total of MRS ITEMS</b>						
1	NSI	Providing and fixing M.S. vertical flat 2"x1/4" (50mm x 6mm) grill including horizontal ¾" x ¾" (20 mmx20 mm) M.S. bars, on top of boundary wall of approved design, including painting three coats, complete in all respects.	Sft	900.00	1250.00	
<b>Total of Non MRS ITEMS</b>						
<b>GRAND TOTAL OF BOUNDARY WALL</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**PARKING AND LANDSCAPING AREA**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	3/53	Clearing and Grubbing	%Sft	14,980.00		
2	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%Cft	10,955.00		
3	3/24/a	Compaction of earthwork (soft, ordinary or hard soil) :-				
4		a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	%Cft	10,955.00		
5	6/2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	%Cft	3,648.02		
6	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	%Cft	225.00		
		(f) Ratio 1: 2: 4	%Cft	1,825.83		
7	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	675.00		
8	10/45/b	Providing and laying Tuff pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		b) 80-mm thick	Sft	10,955.00		
10	C-6/53-b-(ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect.	P.Rft	300.00		
11	3/52	Leveling, dressing and making lawns.	%Sft	4,025.00		
12	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	%Sft	4,025.00		
13	NSI	Supply and Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clots and dressing fine for grassing including disposal of rubbish within 300 ft complete.	Cft	2,012.50		
<b>GRAND TOTAL OF PARKING AND LANDSCAPING AREA</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**DRAINAGE WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%0Cft	2,100.00		
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(i) Ratio 1: 4: 8	%Cft	346.50		
		(f) Ratio 1: 2: 4	%Cft	346.50		
3	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	787.50		
4	C-6/6 c-(2)	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	Cft	288.75		
5	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	1,100.50		
6	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	%Sft	1,050.00		
<b>GRAND TOTAL OF DRAINAGE WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**CIVIL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 10 ft. (1.5 m) a) By Manual or Excavator: in ordinary soil.	%0Cft	5983.90		
2	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	%Sft	2705.55		
3	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	162.23		
4	C-6/6 c-(3)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	455.53		
5	C-6/6 a-(3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	1051.19		
6	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	8605.67		
7	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	212.28		
8	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	2194.10		
9	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	425.70		
10	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- b) ½" (13 mm) thick. (Internal)	%Sft	1496.00		
11	C-11/9(c)	Cement plaster 1:4 upto Ground Floor Slab:- c) ¾" (20 mm) thick. (External)	%Sft	1268.30		
12	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' heigh ratio 1:3.	%Sft	374.00		
13	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	2057.00		
14	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	2262.70		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
15	C-13/33-a-(i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	1395.13		
16	C-10/4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	264.96		
17	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	92.45		
18	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	323.40		
19	C-10/23(b)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (b) using white cement. Basement Floor	%Sft	264.96		
20	C-10/23(b)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (b) using white cement. Ground Floor	%Sft	46.06		
21	C-10/16(e)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Si ze 1½" x 8" (40 x 10 mm)	P.Rft	186.61		
22	C-10/37(b-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement : ii) ½"(13 mm) thick	%Sft	29.54		
23	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	%Sft	354.83		
24	C-26/39(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	354.83		
25	C-9/45-b	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/ Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure clored cell) i/c cutting and placing in position complete in all respect. (b) 1-1/2" thick	%Sft	354.83		
26	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P.Sft	82.50		
27	C-25/52	Providing and fixing all types of glazed aluminum windows of anodized bronze color partly fixed and party sliding using deluxe sections of approved manufacturer having Frame of size 100mmx20mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P.Sft	82.50		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
28	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	105.60		
29	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00		
30	C-25/35	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	P.Rft	8.25		
31	C-25/10+ 11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (Covers & Ladder)	%kg	535.74		
32	C-13/5 d(i+ii)	Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3 coats (Covers & Ladder)	%Sft	526.04		
33	C-6/37 a(i)	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500 gauge i) 1½" thick (40 mm)	%Sft	30.32		
34	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PIFD, Johar Town Lahore)	%Cft	1,480.38		
35	C-6/38 a-ii (b)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge: ii) Ratio 1:3 b) ¾" thick (20 mm)	%Sft	17.92		
36	Ch 19/47	<b><u>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</u></b>				
		Providing, fixing, testing and commissioning of µ-PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and/or as approved and directed by the Engineer Incharge				
	v	110 mm dia.	P.Rft	86.00		
37	C-25/62-ii	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. (ii) Double Leaf	P.Sft	52.00		
38	C-9/46-a	Providing and applying torch-on water proofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge	P.Sft	976.80		
<b>GRAND TOTAL OF FIRE FIGHTING PUMP ROOM CIVIL WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**EXTERNAL PLUMBING**

**PLUMBING SYSTEM**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	19/31 (i)	Providing and fixing gun metal peet/gate valve (screwed):- i) 30 mm (1¼") dia	Each	2.00		
2	19/31 (ii)	Providing and fixing gun metal peet/gate valve (screwed):-ii) 40 mm(1½") dia	Each	8.00		
3	19/31	Providing and fixing gun metal peet/gate valve (screwed):-				
		iii) 50 mm(2")	Each.	2.00		
		iv) 65 mm(2½") dia	Each.	1.00		
4	21/3 (i)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete i) 310 mm (12") i/d	P.Rft	450.00		
5	3/43 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock: - i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	%0Cft	4,050.00		
6	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	%0Cft	4,050.00		
7	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	%0Cft	4,050.00		
8	23/33-a	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material).	Each.	3.00		
9	Ch 23/47	<b>WATER SUPPLY PIPES AND FITTINGS</b>				

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**EXTERNAL PLUMBING**

**PLUMBING SYSTEM**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				
	iii	32 mm dia.	P.Rft	30.00		
	iv	40 mm dia.	P.Rft	165.00		
	v	50 mm dia.	P.Rft	175.00		
10	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	iv	1-1/4 inch	No.	2.00		
11	Ch 19/47	<b>INTERNAL SEWERAGE, VENTS &amp; ROOF DRAINAGE</b>				
	vi	160 mm dia.	P.Rft	450.00		
	vii	200 mm dia.	P.Rft	350.00		
12	N.S	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.				
			No.	10.00		
13	23-61	Provi di ng, laying, testing and commissioning of Grade-B,M S Seamless Schedule pipe of nominal diameter, conformi ng to ASTM-A106, Lontrin/ Hufaz / Pecificbaol ai or approved equival ent manu acturer, duly welded i/c the cost of specials complete as approved and di rected by the Engineer Incharge.				
	ix	4" dia	Rft.	686.00		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**EXTERNAL PLUMBING**

**PLUMBING SYSTEM**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
14	23-64	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
	i	Dry Chemical Powder capacity 6 K g	Each	6.00		
	ii	CO2 Capacity 5 kg	Each	6.00		
15	NSI	Providing, Installation, testing and commissioning of Interconnection with Municipal Fire Brigade (Siamese connection), consisting of breach inlet valve and casing, flang 4" dia, complete in all respect as per specifications and drawings as well as directed by the Engineer.	No.	1.00		
16	NSI	Providing, Fixing ,testing & installing pump set for fire fighting of followig capacities.All pumps will be UL listed FM approved including FAT				
		a) Horizontal centrifugal pumpset (50Hz x 380V, 3 phase Motor) 300 GPM @ 7 bar complete with automatic control panel , Pressure switch & Pressure gauge. It should be capable of operating 2 remotest 2 1/2" hydrants 200 GPM each @ min. 4.5 bar pressure				
		b) Horizontal centrifugal engine driven pumpset 300 GPM @ 12 bar complete with automatic control panel , Pressure switch, Pressure gauge & diesel tank. It should be capable of operating 2 remotest 2 1/2" hydrants 200 GPM each @ min. 4.5 bar pressure				
		c) Jockey electric motor driven pumpset (50Hz x 380 V ,3Ph Motor) 25 GPM @ 12.5 bar complete with automatic control panel, pressure switch and pressue gauge.				
		d) Pump control cabinet for above mentioned pump.				
		e) Pump room's fitting and controls i.e. test/return line, gate valves, NRV, expansion joints, headers, pressure reduccing valve, supports and painting.	Set	1		

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**EXTERNAL PLUMBING**

**PLUMBING SYSTEM**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
17	NSI	Providing, installing, testing and commission,End suction centrifugal pumps of approved make (2 Nos. - 1 running + 1 standby) of capacity 100 gpm each with stainless steel impeller capable of pumping against a total pumping head of 120 ft. coupled with water cooled electric motor of , 440 volts, 3 - phase, 50 Hz. Piping/ joints to be tested at 180ft head.The pump shall be provided with control panel having auto / manual switches, dry running protection, low / high level water controls with alternative standby duty operation system, complete in all respects.	Set	1		
18	NSI	Submercible PumpProviding Installation, testing and commissioning centrifugal submersible pump of capacity 30 gpm at 50 ft head to pump water from plant room to nearest manhole (as shown on drawings) of approved make with auto /manual switches, dry running protection, low / high level water controls,complete in all repects.	Nos.	1		
<b>GRAND TOTAL OF EXTERNAL PLUMBING WORKS</b>						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,  
LAHORE**

**(COVERED AREA = 47000 SFT)**

**BILL OF QUANTITIES**

**EXTERNAL ELECTRICAL WORKS**

**MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Fabrication, supply at site, installation, testing and commissioning of 200 kVA Oil immersed Step down (11/0.415kV) Distribution Transformer as per WAPDA's standards and specifications as per site requirements including the cost of Pole Mounted Transformer HT Cable extension, energy meter connections, Separate bore type earthing sets to earth body and neutral of transformer and all other necessary installation accessories as per WAPDA Standards complete in all respects.	Each	1.00		
2	NSI	Supply at site, fabrication, installation, testing and commissioning of AMF/ATS Panel Conforming to same constructional specification as per Generator of 200KVA mentioned above with AC3 Magnatic Contactors, Relays, Timer, Protections as per DGSET Manufacture specifications suitable for DGSet as per site requirement for smooth operation as per specifications and entire satisfaction of Engineer complete in all respect.	Each	1.00		
3	NSI	Supply, Installation, testing and commissioning of following IP 65/IP66 Flood Light .50 W Make Philips	No.	7.00		
4	NSI	Fabrication, Supply, installation, testing and commissioning at site of Light control panel for External Lighting IP 68 rated of appropriate size, made of MS Sheet 16 SWG with hinged door, handle, catcher, 2 coats of antirust and powder coated paint of approved colour, megnatic contactor, CBs, toggle switch including cost of all necessary materials complete in all respects, LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.	Each	1.00		
5	NSI	Providing and installation of ¾" dia and 10' long copper rod as earth electrode including wires, earth connecting point (ECP), earthing cable-1 core 70mmsq stranded copper conductor from ECP to motor bodies, nuts & bolts and manhole of appropriate size and all accessories to earth bodies of all motors complete in all respects.	No.	2.00		
<b>GRAND TOTAL OF EXTERNAL ELECTRICAL WORKS</b>						

PROPOSED  
FEMALE HOSTEL FOR  
PAKISTAN INSTITUTE OF FASHION AND DESIGN  
ON PLOT NO. 95 BLOCK A/3 AT  
JOHAR TOWN LAHORE

ARCHITECTURAL  
TENDER DRAWINGS

JUNE: 2021

**LIST OF DRAWINGS**

ARCHITECTURAL DRAWINGS

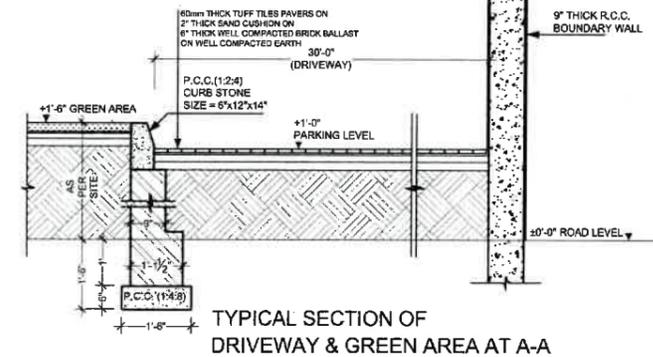
S. NO.	TITLE	DWG. NO.
1	MASTER PLAN	MP-01
2	GROUND FLOOR PLAN	A-01
3	FIRST FLOOR PLAN	A-02
4	SECOND FLOOR PLAN	A-03
5	THIRD FLOOR PLAN	A-04
6	FOURTH FLOOR PLAN	A-05
7	FIFTH FLOOR PLAN	A-06
8	MUMTY FLOOR PLAN	A-07
9	FRONT ELEVATION	A-08
10	REAR SIDE ELEVATION-1	A-09
11	REAR SIDE ELEVATION-2 & SECTION AT B-B	A-10
12	SECTION AT A-A	A-11
13	RIGHT SIDE ELEVATION & SECTION AT C-C & D-D	A-12
14	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY GROUND FLOOR)	A-13
15	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY FIRST FLOOR)	A-14
16	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY SECOND FLOOR)	A-15
17	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY SECOND FLOOR)	A-16
18	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY THIRD FLOOR)	A-17
19	EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY FOURTH & FIFTH & MUMTY FLOOR)	A-18
20	TYPICAL TOILETS & SHOWERS DETAIL (FIRST TO FIFTH FLOOR)	A-19
21	FRONT BOUNDARY WALL DETAIL-2	A-20
22	BOUNDARY WALL DETAIL-1	A-21
23	DETAIL OF MAIN GATE	A-22



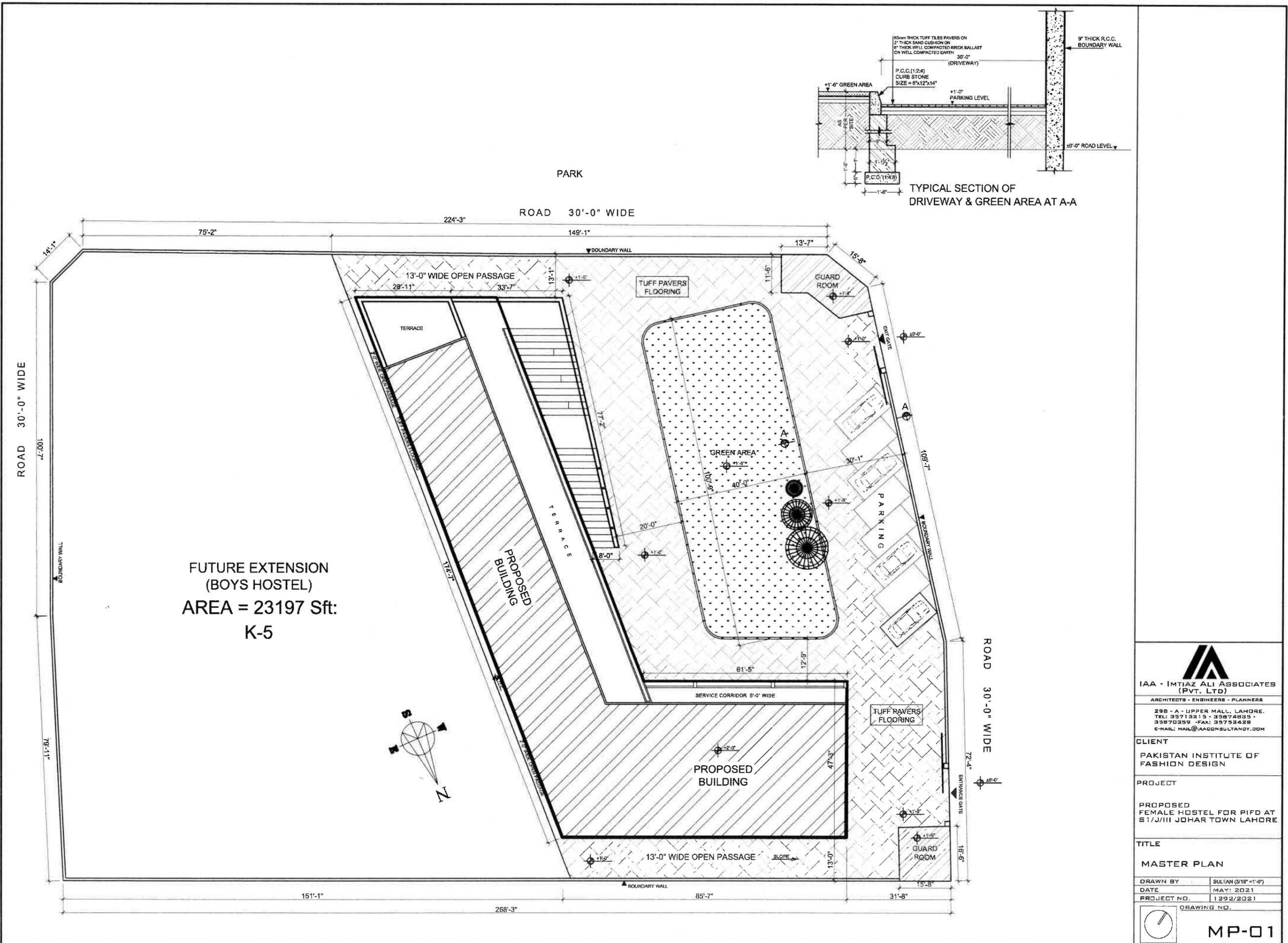
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TYPICAL SECTION OF DRIVEWAY & GREEN AREA AT A-A



FUTURE EXTENSION  
(BOYS HOSTEL)  
AREA = 23197 Sft:  
K-5



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CLIENT  
PAKISTAN INSTITUTE OF FASHION DESIGN

PROJECT  
PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

TITLE  
MASTER PLAN

DRAWN BY	SULTAN (3/18"-1'-0")
DATE	MAY: 2021
PROJECT NO.	1292/2021
DRAWING NO.	



**MP-01**

**SCHEDULE OF DOOR & WINDOWS**

TYPE	SIZE	QTY	DESCRIPTION
DW-1	14'-0" x 7'-0"	1-NO.	ALUMINIUM GLAZED WINDOW
DW-2	12'-0" x 7'-0"	1-NO.	ALUMINIUM GLAZED WINDOW
D-1	3'-0" x 7'-0"	3-NO.	ALUMINIUM GLAZED DOOR
D-2	3'-0" x 7'-0"	1-NO.	ALUMINIUM GLAZED DOOR
D-3	3'-0" x 7'-0"	1-NO.	ALUMINIUM GLAZED DOOR
D-4	3'-0" x 7'-0"	2-NO.	ALUMINIUM GLAZED DOOR
D-5	3'-0" x 7'-0"	3-NO.	ALUMINIUM GLAZED DOOR
D-6	2'-0" x 7'-0"	4-NO.	STEEL FRAME WITH WOODEN FILLING DOOR
D-7	2'-0" x 7'-0"	2-NO.	ALUMINIUM GLAZED DOOR
W-1	24'-0" x 12'-0"	1-NO.	ALUMINIUM GLAZED WINDOW
W-2	11'-0" x 12'-0"	1-NO.	ALUMINIUM GLAZED WINDOW
W-3	3'-0" x 6'-0"	3-NO.	ALUMINIUM GLAZED WINDOW
W-4	8'-0" x 7'-0"	6-NO.	ALUMINIUM GLAZED WINDOW
W-5	3'-0" x 7'-0"	6-NO.	ALUMINIUM GLAZED WINDOW
W-6	2'-0" x 7'-0"	6-NO.	ALUMINIUM GLAZED WINDOW
W-7	4'-0" x 6'-0"	3-NO.	ALUMINIUM GLAZED WINDOW
W-8	3'-0" x 6'-0"	3-NO.	ALUMINIUM GLAZED WINDOW
W-9	6'-0" x 11'-0"	6-NO.	ALUMINIUM GLAZED WINDOW
W-10	7'-0" x 6'-0"	3-NO.	ALUMINIUM GLAZED WINDOW
V-1	8'-0" x 6'-0"	8-NO.	ALUMINIUM GLAZED VENTILATOR
V-2	3'-0" x 3'-0"	9-NO.	ALUMINIUM GLAZED VENTILATOR
PC-1	6'-0" x 12'-0"	8-NO.	2" THICK P.C. JALI
PC-2	7'-0" x 8'-0"	9-NO.	1-NO.

**TENDER DRAWING**

**STATEMENT OF AREA**

COVERED AREA GROUND FLOOR = 10023 Sft.  
 COVERED AREA FIRST FLOOR = 7449 Sft.  
 COVERED AREA SECOND FLOOR = 6922 Sft.  
 COVERED AREA THIRD FLOOR = 6922 Sft.  
 COVERED AREA FOURTH FLOOR = 6922 Sft.  
 COVERED AREA FIFTH FLOOR = 7030 Sft.  
 COVERED AREA SIXTH FLOOR = 2005 Sft.  
**TOTAL COVERED AREA = 47273 Sft.**

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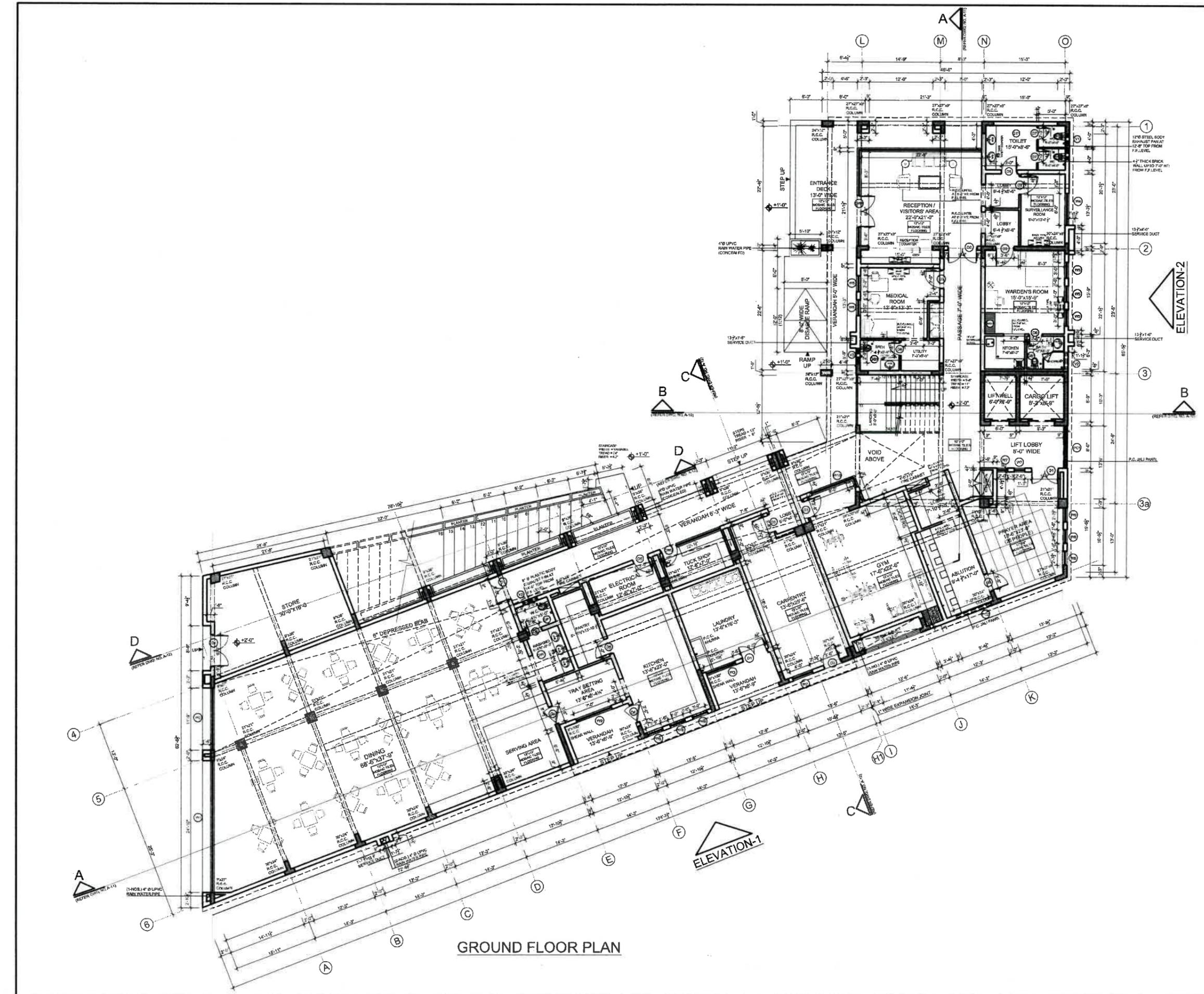
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 PAKISTAN INSTITUTE OF FASHION DESIGN

**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
 GROUND FLOOR PLAN

**DRAWN BY** SULTAN (3/19/21)  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021  
**DRAWING NO.**

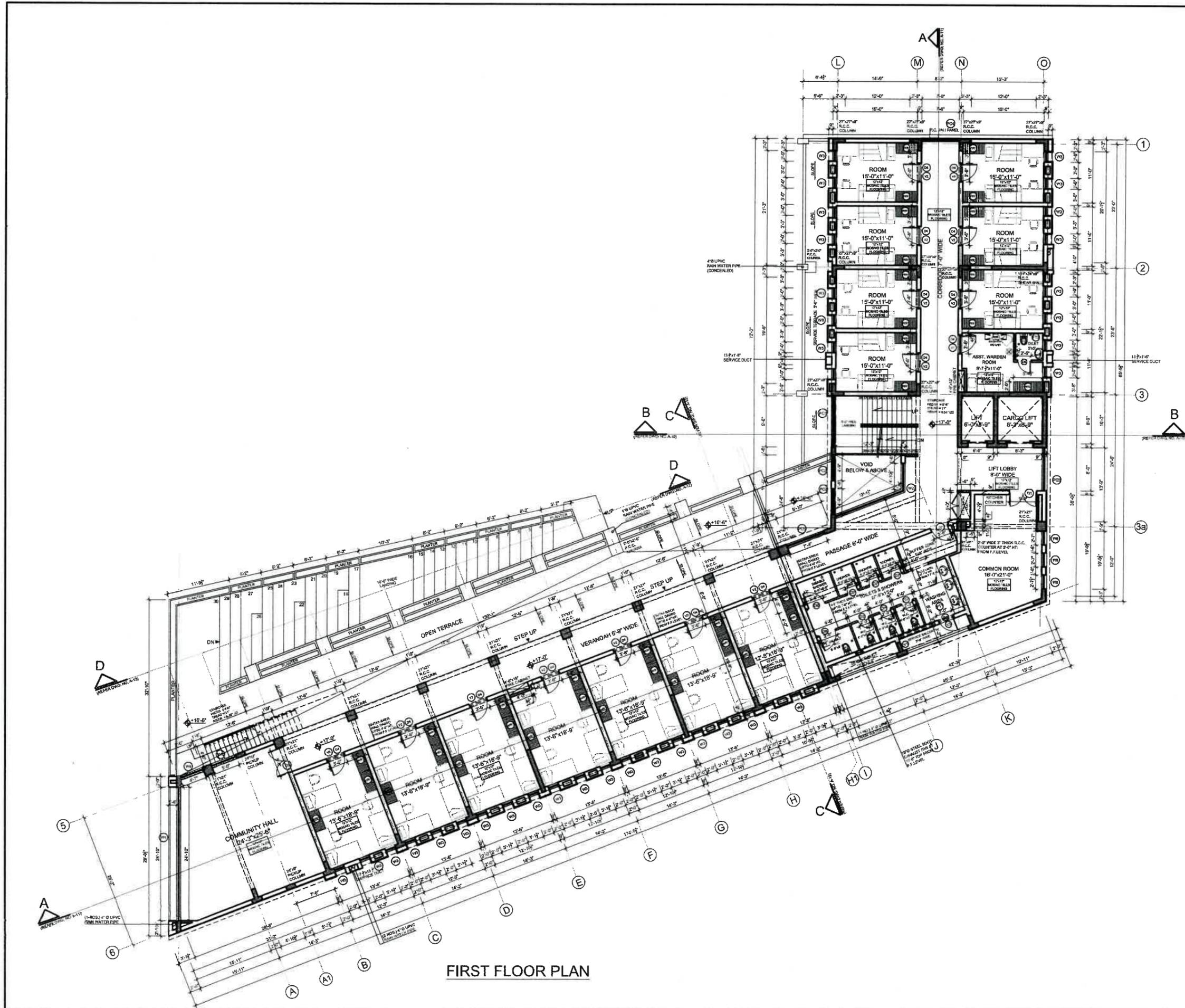
**GROUND FLOOR PLAN**



**ELEVATION-2**

**ELEVATION-1**





FIRST FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	SIZE	SILL	QTY	DESCRIPTION
D-1	5'-0" x 2'-0"	0'-0"	2 NOS.	ALUMINIUM GLAZED DOOR
D-2	3'-6" x 7'-0"	0'-0"	1 NO.	
D-3	3'-6" x 7'-0"	0'-0"	1 NO.	
D-4	3'-6" x 7'-0"	0'-0"	11 NOS.	WOODEN FLUSH DOOR WITH STEEL FRAME
D-5	3'-6" x 7'-0"	0'-0"	1 NO.	
D-6	3'-6" x 7'-0"	0'-0"	2 NOS.	
D-7	3'-6" x 7'-0"	0'-0"	8 NOS.	
W-1	24'-10" x 6'-2"	0'-4"	1 NO.	ALUMINIUM GLAZED WINDOW
W-2	13'-0" x 11'-0"	0'-4"	1 NO.	
W-3	2'-0" x 6'-0"	2'-0"	3 NOS.	
W-4	6'-0" x 6'-0"	0'-4"	1 NO.	
W-5	5'-0" x 6'-0"	0'-4"	1 NO.	
W-6	2'-0" x 6'-0"	0'-4"	3 NOS.	
V-1	7'-0" x 2'-0"	7'-0"	1 NO.	ALUMINIUM GLAZED VENTILATOR
V-2	3'-0" x 1'-0"	0'-0"	16 NOS.	M.S. FRAME GLAZED VENTILATOR
V-3	3'-0" x 2'-0"	7'-0"	1 NO.	ALUMINIUM GLAZED VENTILATOR
PC-1	3'-6" x 9'-8"	0'-4"	1 NO.	2" THICK P.C. JALI
PC-2	4'-0" x 9'-8"	0'-4"	2 NOS.	
PC-3	6'-0" x 9'-8"	0'-4"	1 NO.	
PC-4	7'-0" x 9'-8"	0'-4"	1 NO.	
PC-5	7'-0" x 9'-8"	0'-4"	1 NO.	

TENDER DRAWING



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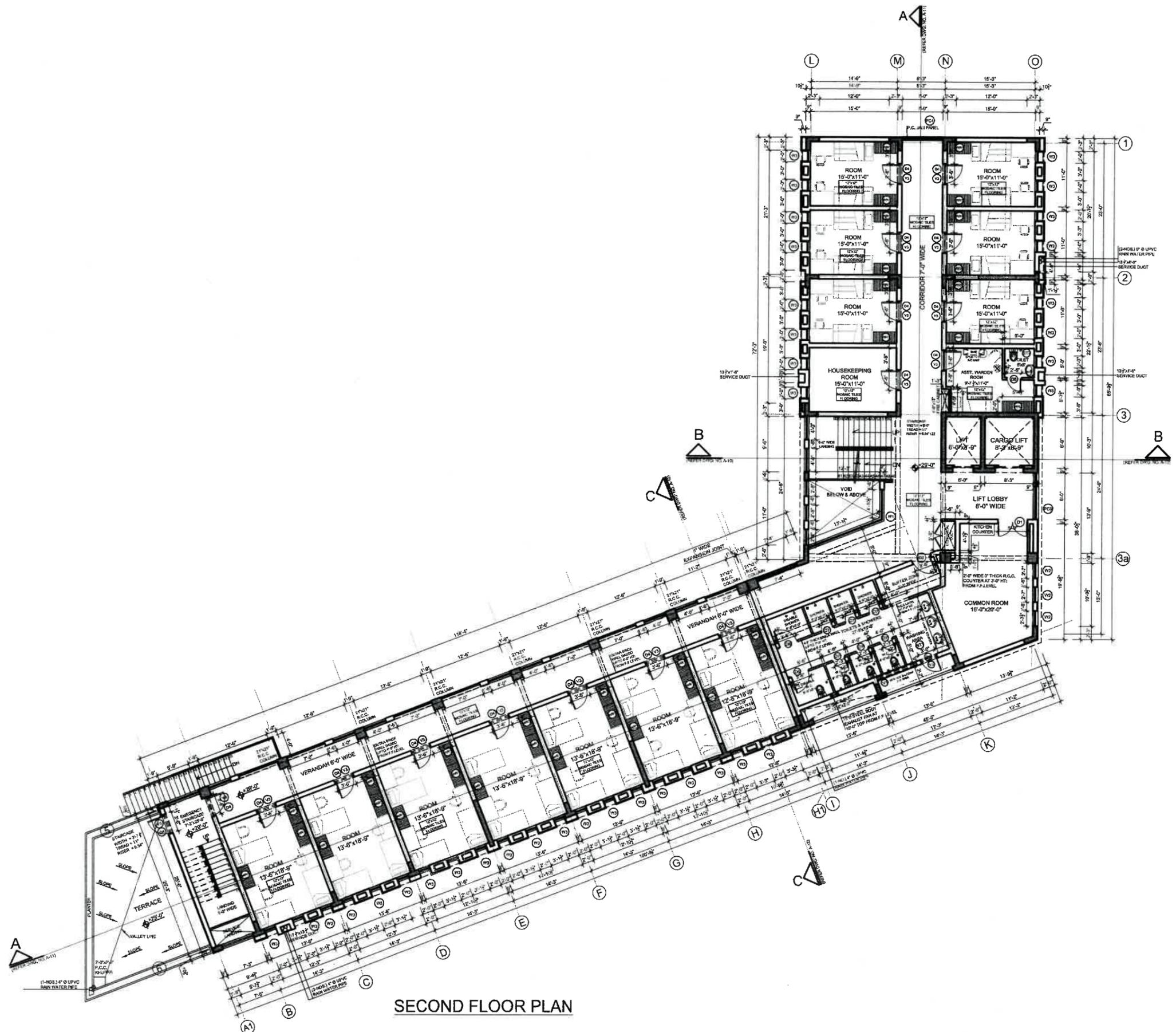
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PROJECT  
**PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE**

TITLE  
**FIRST FLOOR PLAN**

DRAWN BY: SULTAN (3'18" x 1'-0")  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021

DRAWING NO.  
**A-02**



SECOND FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	SIZE	SILL	QTY	DESCRIPTION
D-1	3'-0\"/>			
D-2	3'-0\"/>			
D-3	3'-0\"/>			
D-4	3'-0\"/>			
D-5	3'-0\"/>			
D-6	3'-0\"/>			
D-7	2'-0\"/>			
W-1	2'-0\"/>			
W-2	2'-0\"/>			
W-3	2'-0\"/>			
V-1	7'-0\"/>			
V-2	3'-0\"/>			
V-3	3'-0\"/>			
PC-1	4'-0\"/>			
PC-2	2'-0\"/>			
PC-3	3'-0\"/>			
PC-4	3'-0\"/>			
PC-5	3'-0\"/>			
PC-6	3'-0\"/>			
PC-7	3'-0\"/>			

TENDER DRAWING



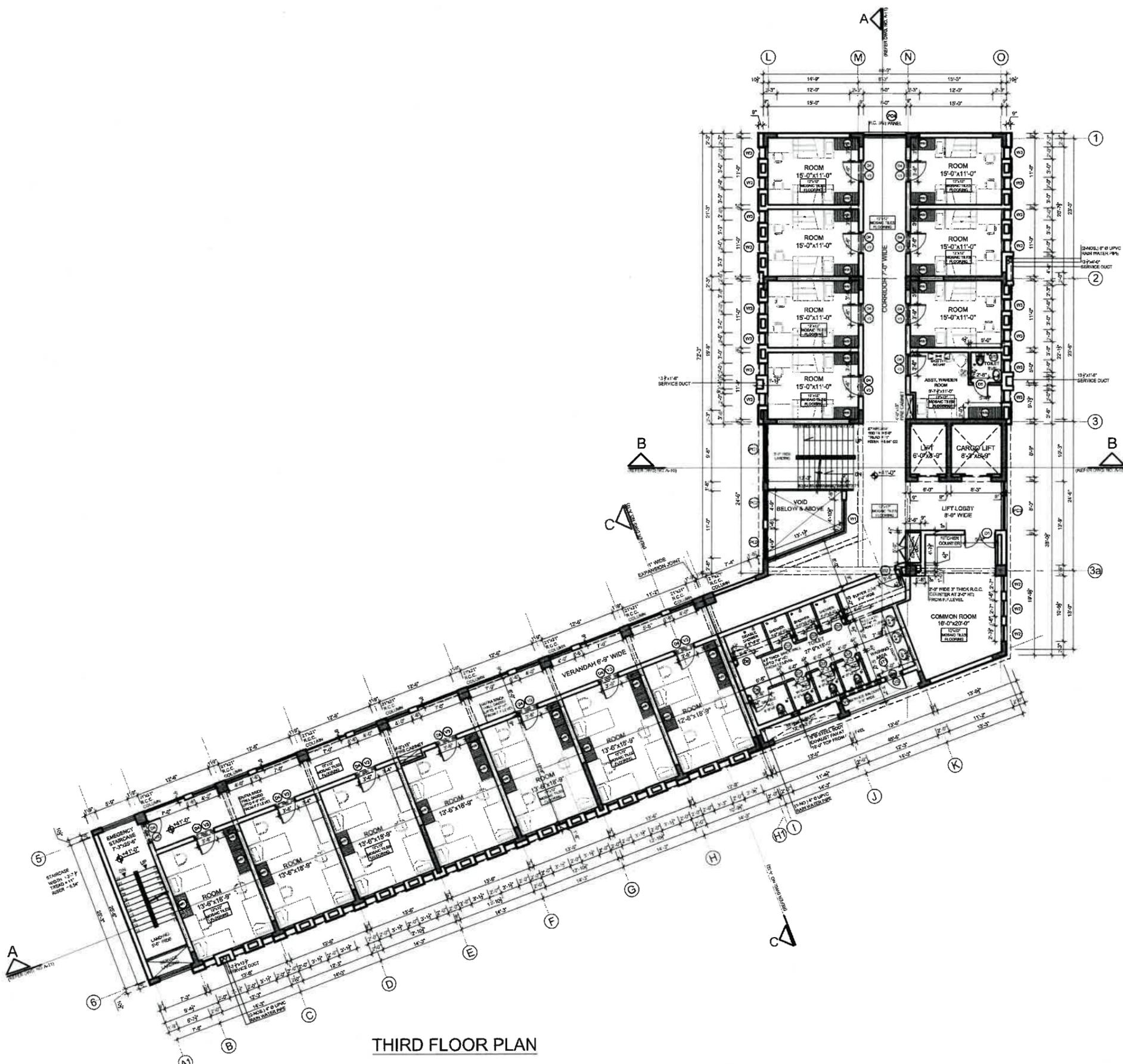
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PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

TITLE  
 SECOND FLOOR PLAN

DRAWN BY: SULTAN (3/18"=1'-0")  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021



THIRD FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	SIZE	SILL	QTY	DESCRIPTION
D-1	3'-0\"/>			

TENDER DRAWING



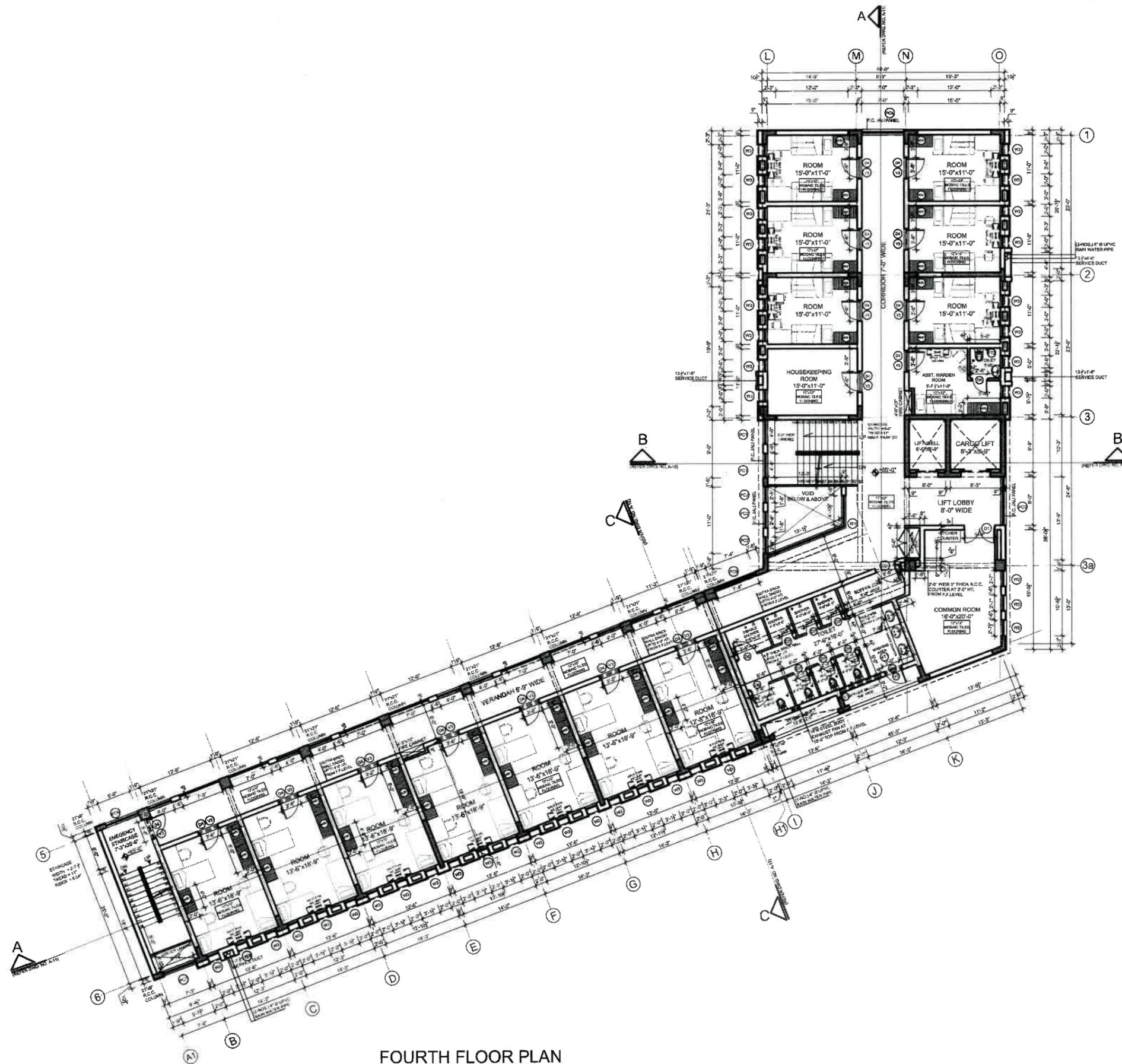
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PROJECT  
**PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE**

TITLE  
**THIRD FLOOR PLAN**

DRAWN BY: SULTAN (3/15/21-07)  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021  
 DRAWING NO.:



FOURTH FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	SIZE	SILL	QTY	DESCRIPTION
D-1	3'-0" x 7'-0"	0'-0"	1-NOS.	ALUMINUM GLAZED DOOR
D-2	3'-0" x 7'-0"	0'-0"	1-NOS.	ALUMINUM GLAZED DOOR
D-3	3'-0" x 7'-0"	0'-0"	1-NOS.	ALUMINUM GLAZED DOOR
D-4	3'-0" x 7'-0"	0'-0"	1-NOS.	WOODEN FLUSH DOOR WITH STEEL FRAME
D-5	2'-0" x 7'-0"	0'-0"	1-NOS.	ALUMINUM GLAZED DOOR
D-6	3'-0" x 7'-0"	0'-0"	2-NOS.	ALUMINUM GLAZED DOOR
D-7	2'-0" x 7'-0"	0'-0"	6-NOS.	ALUMINUM GLAZED DOOR
W-1	3'-0" x 7'-0"	0'-0"	1-NOS.	ALUMINUM GLAZED WINDOW
W-2	2'-0" x 7'-0"	0'-0"	3-NOS.	ALUMINUM GLAZED WINDOW
W-3	2'-0" x 7'-0"	0'-0"	37-NOS.	ALUMINUM GLAZED WINDOW
V-1	7'-0" x 2'-0"	7'-0"	11-NOS.	ALUMINUM GLAZED VENTILATOR
V-2	3'-0" x 2'-0"	7'-0"	1-NOS.	ALUMINUM GLAZED VENTILATOR
V-3	3'-0" x 1'-0"	8'-0"	18-NOS.	M.S. FRAME GLAZED VENTILATOR
PC-1	4'-0" x 8'-0"	0'-0"	2-NOS.	2" THICK P.C. JALI
PC-2	2'-0" x 8'-0"	0'-0"	3-NOS.	2" THICK P.C. JALI
PC-3	8'-0" x 8'-0"	0'-0"	1-NOS.	2" THICK P.C. JALI
PC-4	7'-0" x 8'-0"	0'-0"	1-NOS.	2" THICK P.C. JALI
PC-5	7'-0" x 8'-0"	0'-0"	1-NOS.	2" THICK P.C. JALI
PC-6	5'-0" x 8'-0"	0'-0"	1-NOS.	2" THICK P.C. JALI
PC-7	5'-0" x 8'-0"	0'-0"	1-NOS.	2" THICK P.C. JALI

TENDER DRAWING



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 TEL: 35713215 - 35874835  
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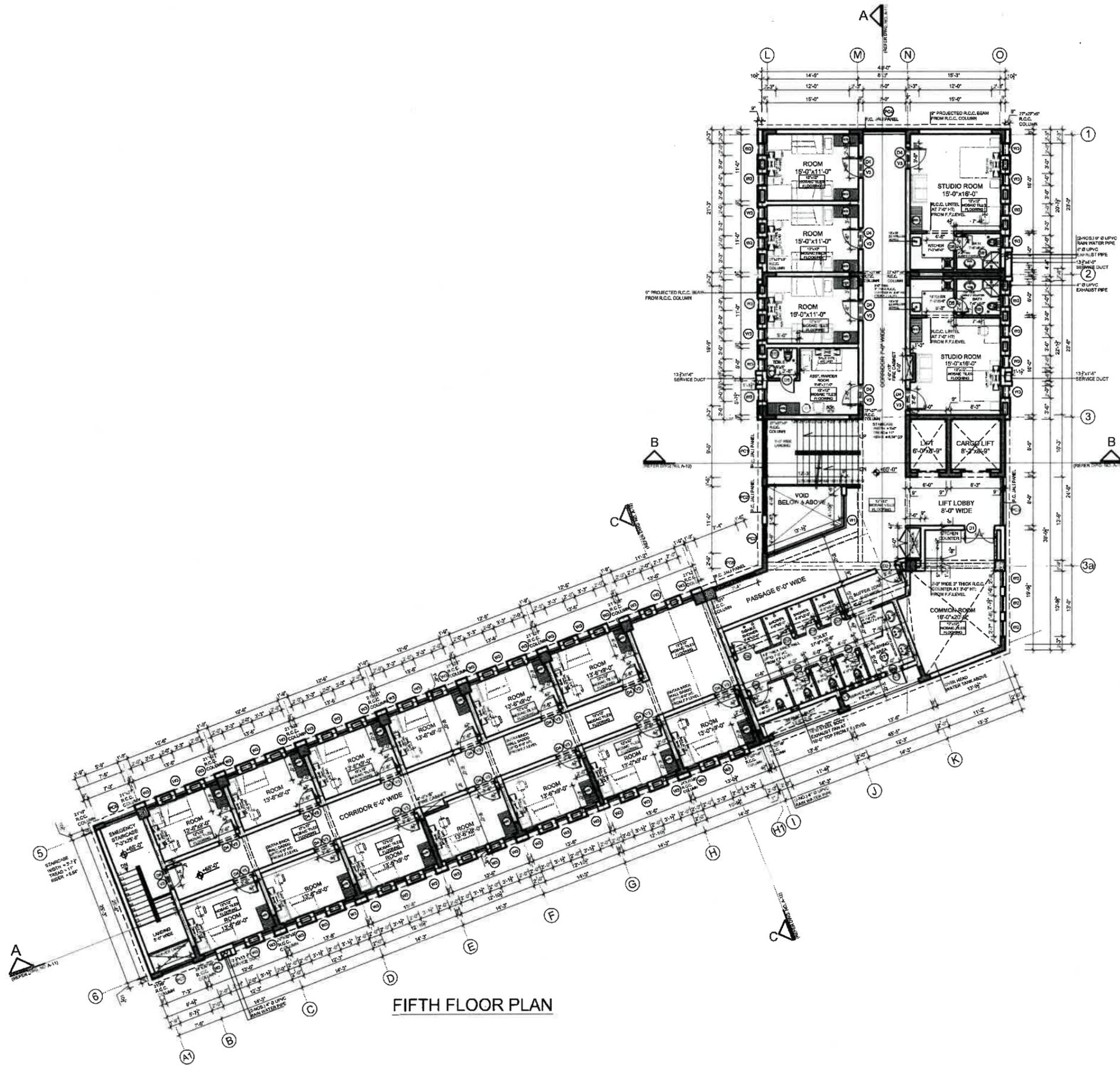
CLIENT  
**PAKISTAN INSTITUTE OF FASHION DESIGN**

PROJECT  
**PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE**

TITLE  
**FOURTH FLOOR PLAN**

DRAWN BY: SULTAN (3/16/21-01)  
 DATE: MAY, 2021  
 PROJECT NO.: 1292/2021

DRAWING NO.: **A-05**



FIFTH FLOOR PLAN

TYPE	SIZE	SKILL	QTY	DESCRIPTION
D-1	3'-0\"/>			
D-2	3'-0\"/>			
D-3	3'-0\"/>			
D-4	3'-0\"/>			
D-5	3'-0\"/>			
D-6	3'-0\"/>			
D-7	3'-0\"/>			
W-1	3'-0\"/>			
W-2	2'-0\"/>			
W-3	2'-0\"/>			
V-1	7'-0\"/>			
V-2	3'-0\"/>			
V-3	3'-0\"/>			
PC-1	6'-0\"/>			
PC-2	4'-0\"/>			
PC-3	6'-0\"/>			
PC-4	7'-0\"/>			
PC-5	7'-0\"/>			
PC-6	5'-0\"/>			
PC-7	6'-0\"/>			

TENDER DRAWING



**IAA**  
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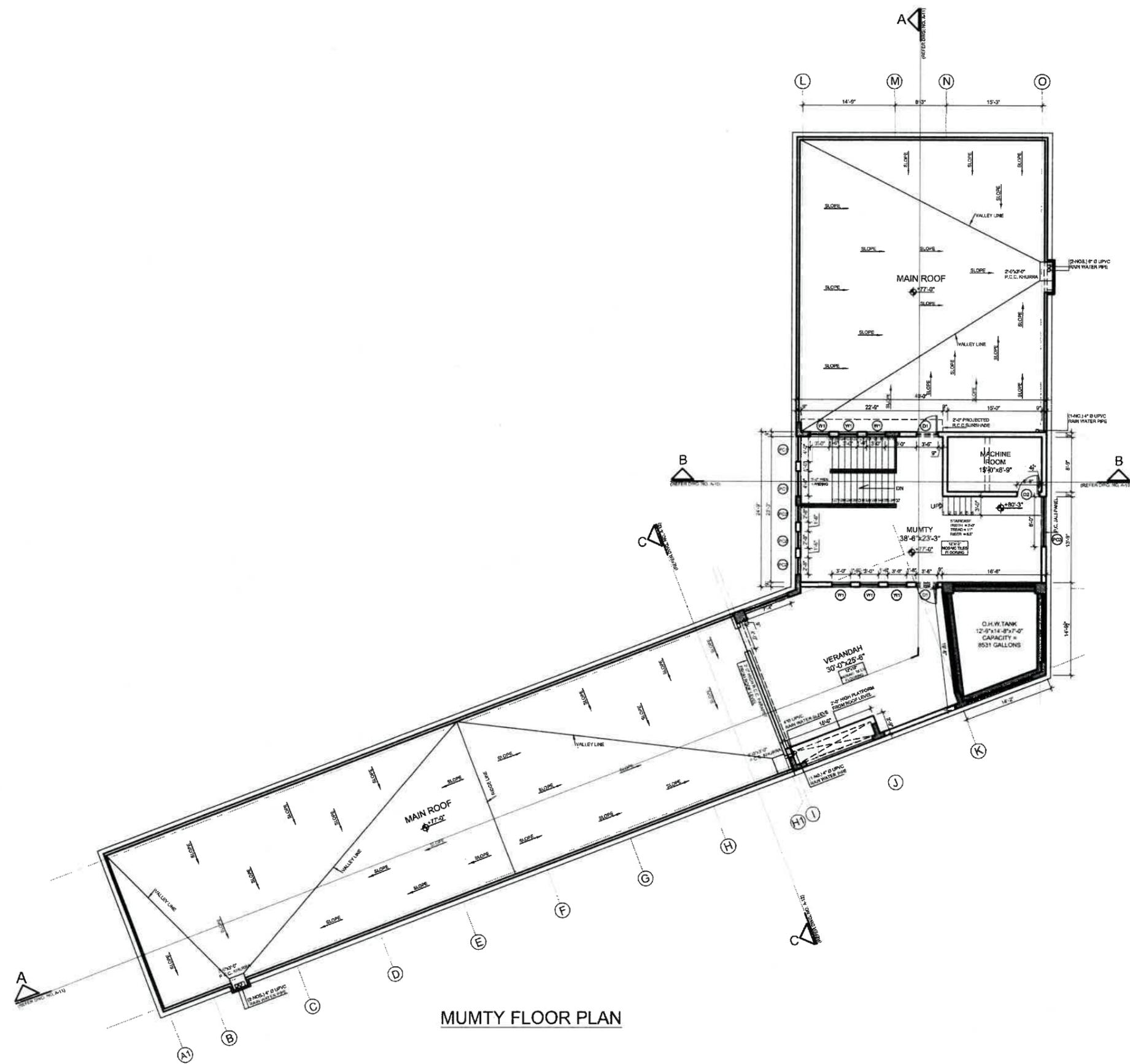
CLIENT  
**PAKISTAN INSTITUTE OF FASHION DESIGN**

PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S17/J/III JOHAR TOWN LAHORE

TITLE  
**FOURTH FLOOR PLAN**

DRAWN BY: SULTAN (3/18'-11'-0")  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021

DRAWING NO.  
**A-06**



MUMTY FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	SIZE	SILL	QTY	DISCRPTION
D-1	3'-0" x 7'-0"	0'-0"	2-NOS.	ALUMINUM GLAZED DOOR
D-2	3'-0" x 7'-0"	0'-0"	1-NOS.	
W-1	3'-0" x 8'-0"	0'-4"	6-NOS.	ALUMINUM GLAZED WINDOW
PC-1	6'-0" x 6'-0"	0'-4"	2-NOS.	2" THICK P.C. JALI
PC-2	2'-0" x 8'-0"	0'-4"	3-NOS.	
PC-3	2'-0" x 8'-0"	0'-4"	1-NOS.	

TENDER DRAWING



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PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

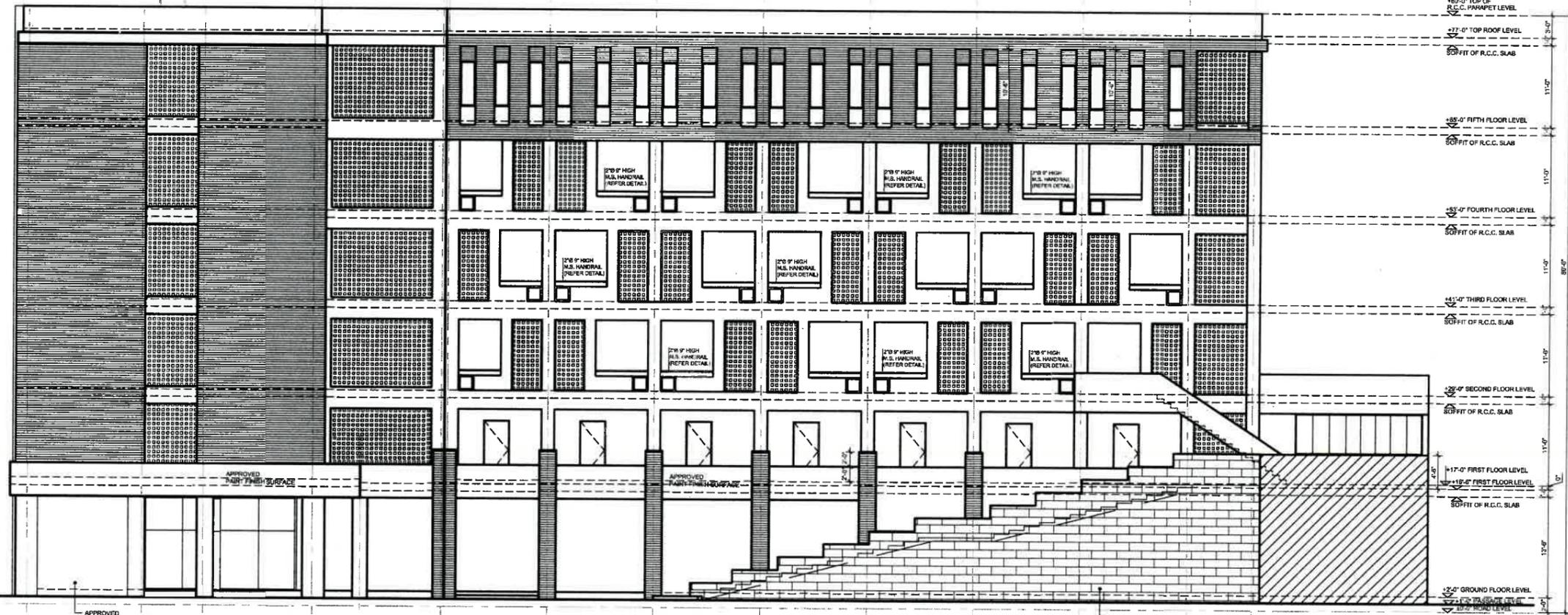
TITLE  
 MUMTY FLOOR PLAN

DRAWN BY SULTAN (3/10' +1'-0")  
 DATE MAY: 2021  
 PROJECT NO. 1292/2021



DRAWING NO. A-07

O N M L I H G F E D C B A



FRONT ELEVATION

TENDER DRAWING



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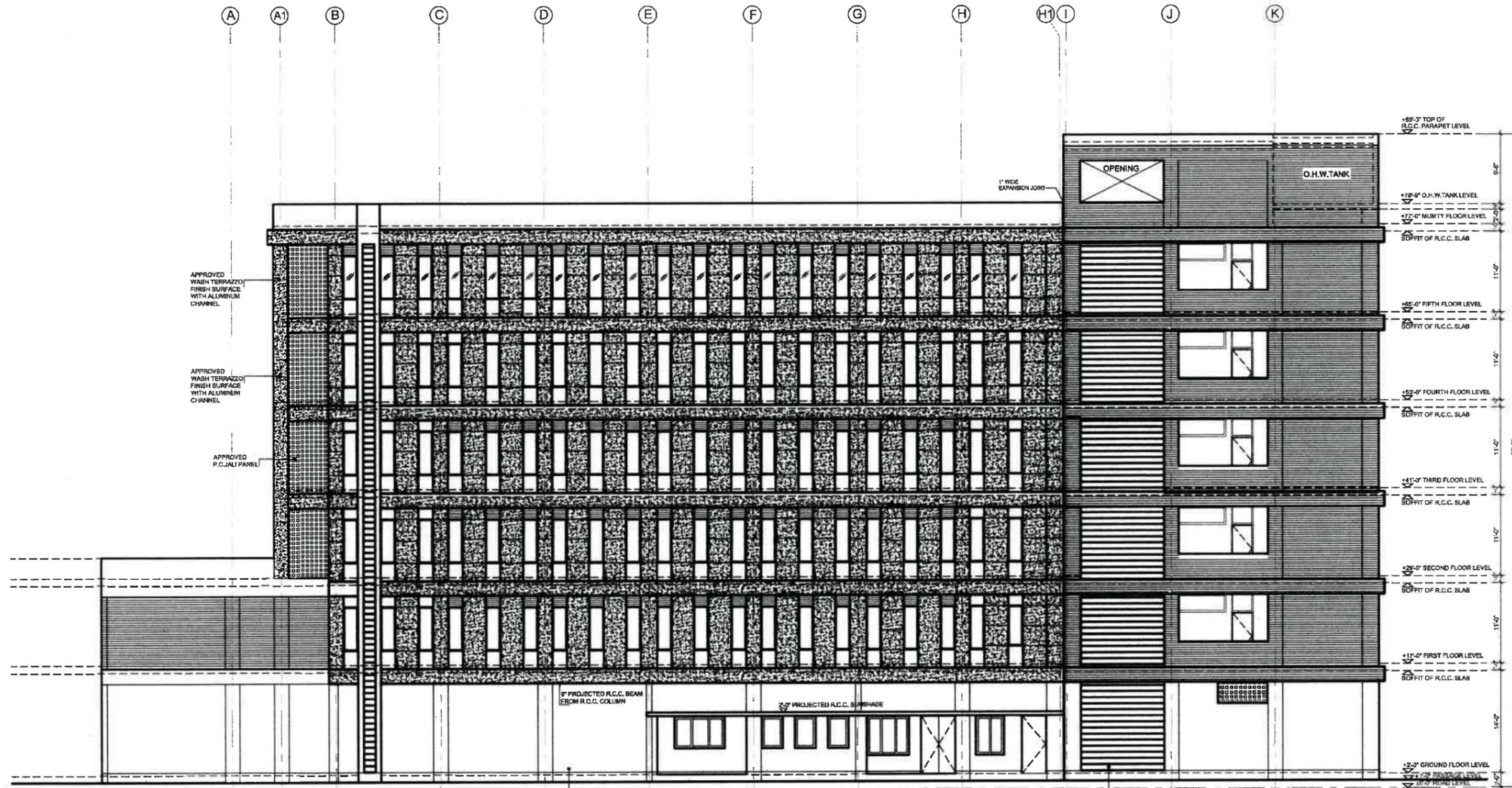
PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT 51/J/III JOHAR TOWN LAHORE

TITLE  
 FRONT ELEVATION

DRAWN BY	SULTAN (3/18"-1/4")
DATE	MAY: 2021
PROJECT NO.	1292/2021
DRAWING NO.	



A-08



REAR SIDE ELEVATION-1

TENDER DRAWING



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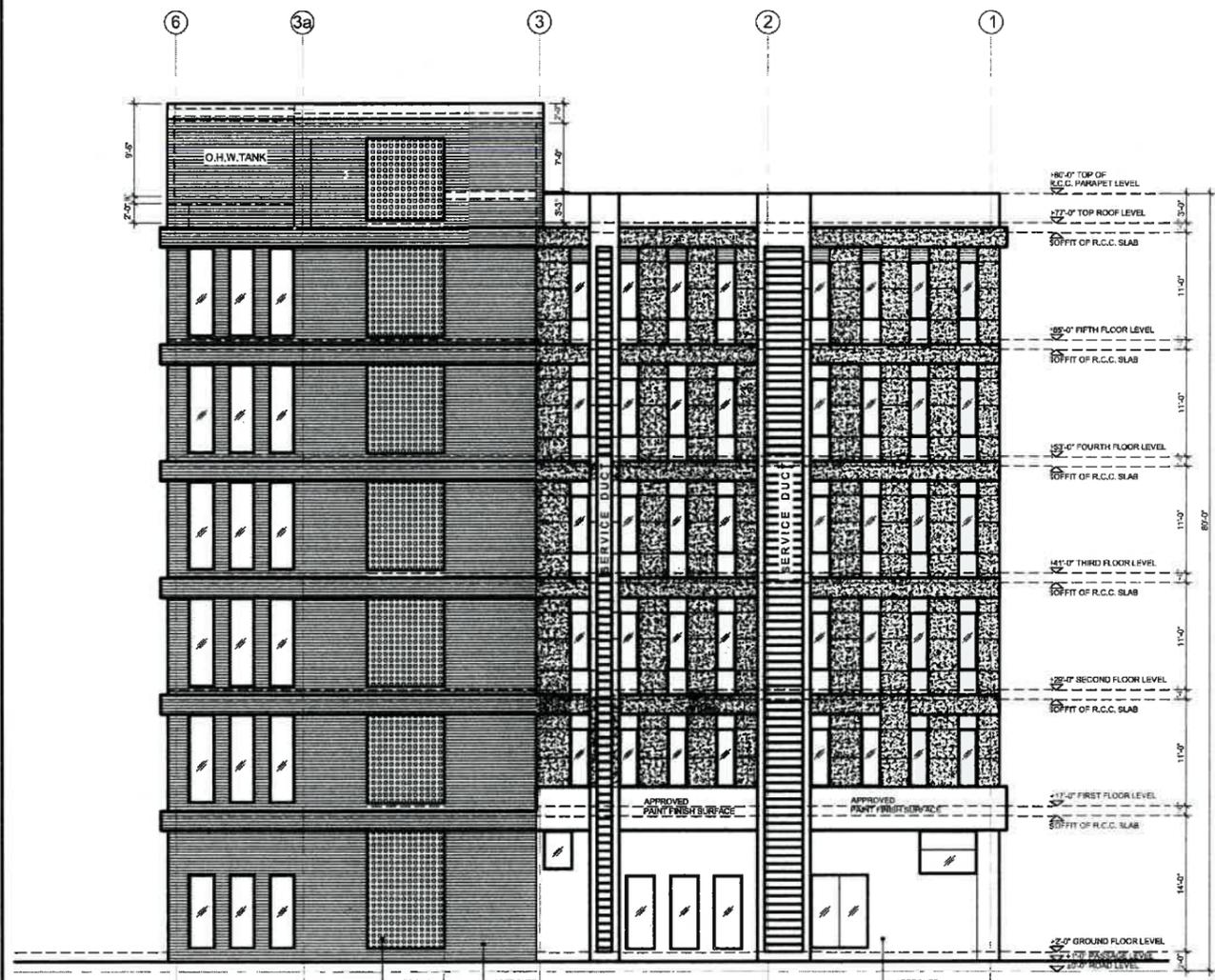
PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

TITLE  
 REAR SIDE ELEVATION-1

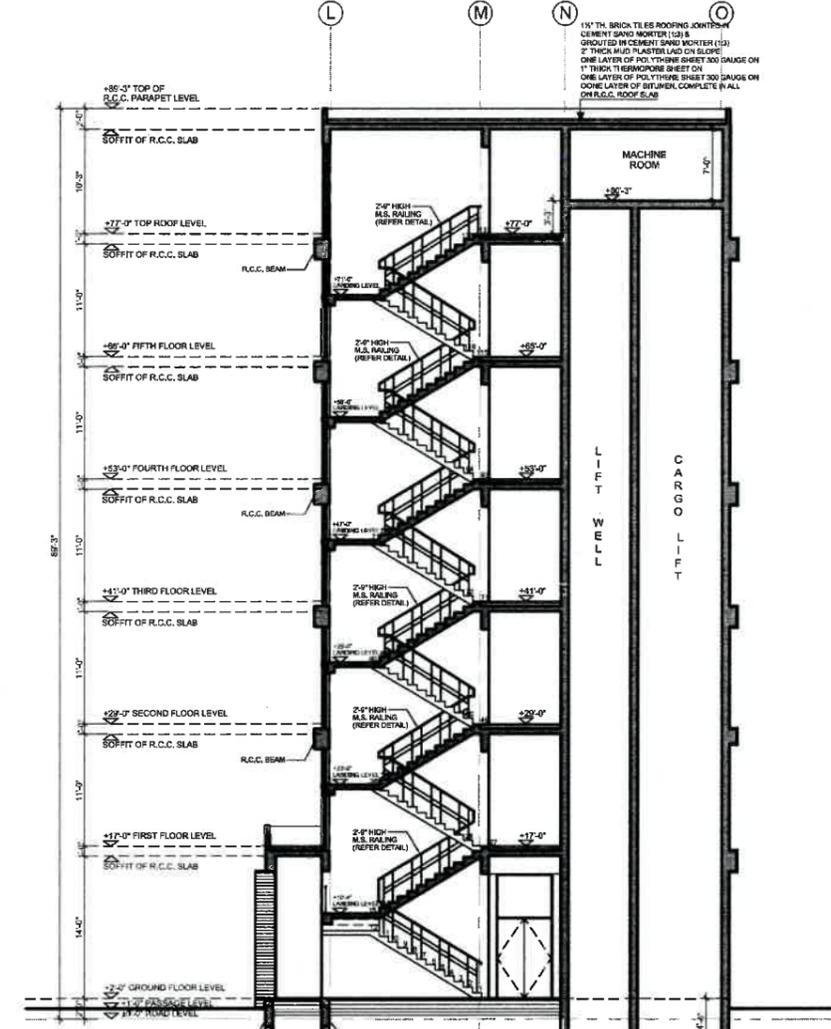
DRAWN BY	SULTAN (3/16" = 1'-0")
DATE	MAY: 2021
PROJECT NO.	1292/2021
DRAWING NO.	



A-09



REAR SIDE ELEVATION-2



SECTION AT B-B

1 1/2" TH. BRICK TILES ROOFING JOINTS  
 CEMENT SAND MORTAR (1:3) &  
 GROUTED IN CEMENT SAND MORTAR (1:3)  
 2" THICK M.S. PLASTER LAD ON SLOPE  
 ONE LAYER OF POLYTHENE SHEET 300 GAUGE ON  
 1" THICK THERMOPLASTIC SHEET ON  
 ONE LAYER OF POLYTHENE SHEET 300 GAUGE ON  
 ONE LAYER OF BITUMEN COMPLETE IN ALL  
 ON R.C.C. ROOF SLAB

TENDER DRAWING



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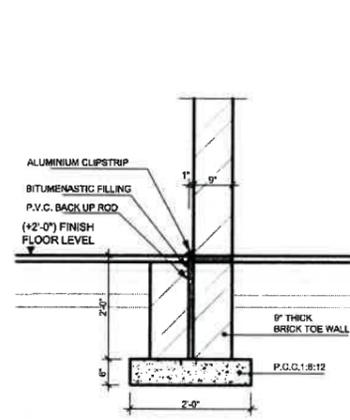
CLIENT  
 PAKISTAN INSTITUTE OF  
 FASHION DESIGN

PROJECT  
 PROPOSED  
 FEMALE HOSTEL FOR PIFD AT  
 S17/J/III JOHAR TOWN LAHORE

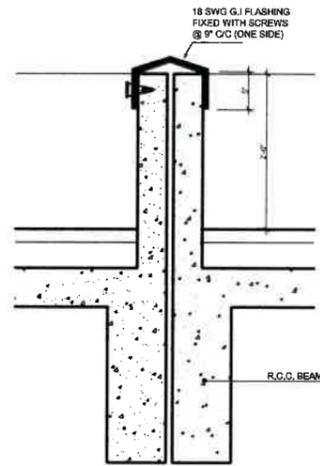
TITLE  
 REAR SIDE ELEVATION-2 &  
 SECTION AT B-B

DRAWN BY	SULTAN (3/16" = 1'-0")
DATE	MAY, 2021
PROJECT NO.	1292/2021

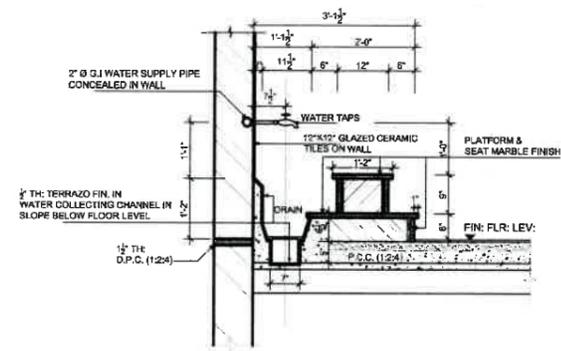
DRAWING NO.  
 A-10



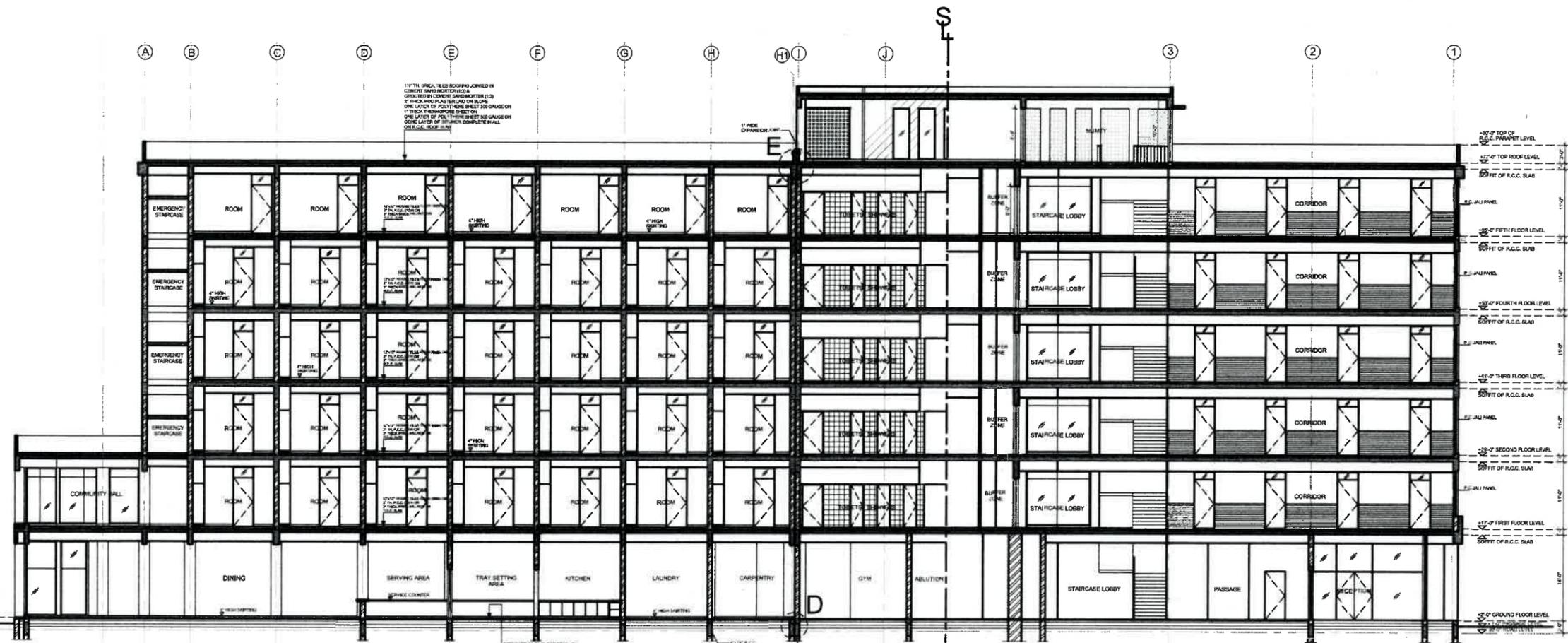
DETAIL OF EXPANSION JOINT AT-D  
SCALE 1/2" = 1'-0"



DETAIL OF EXPANSION JOINT AT-E



SECTIONAL DETAIL OF ABLUTION SPACE



SECTION AT A-A

TENDER DRAWING



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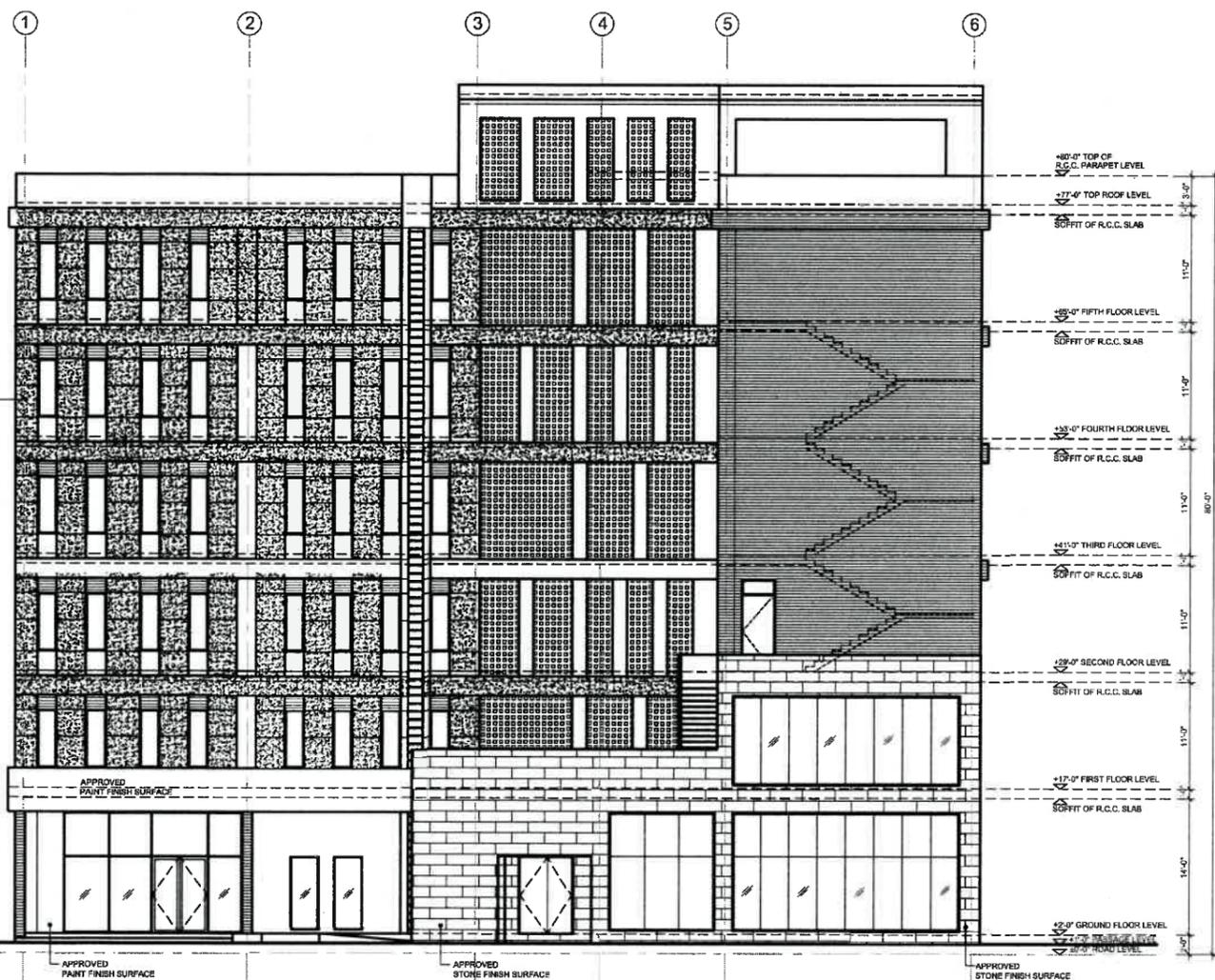
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PROJECT  
PROPOSED FEMALE HOSTEL FOR PIFD AT S17/J111 JOHAR TOWN LAHORE

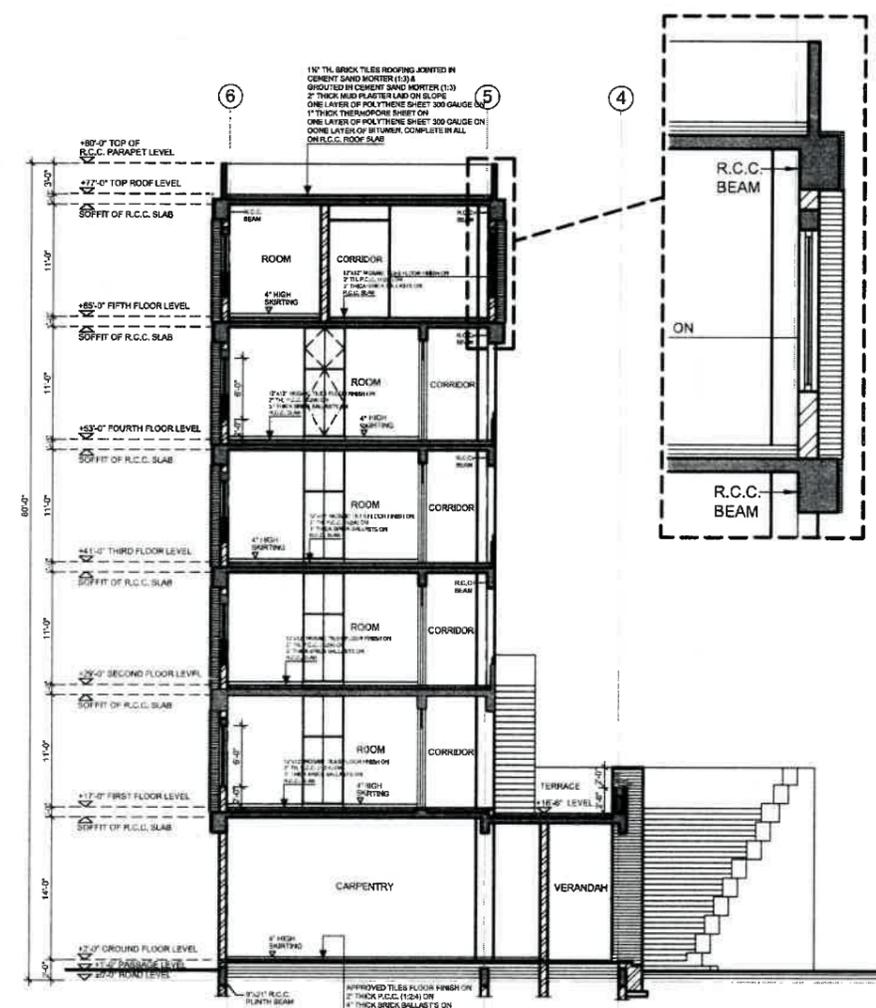
TITLE  
SECTION AT AA  
DRAWN BY SULTAN (3/18" = 1'-0")  
DATE MAY: 2021  
PROJECT NO. 1292/2021  
DRAWING NO.



A-11

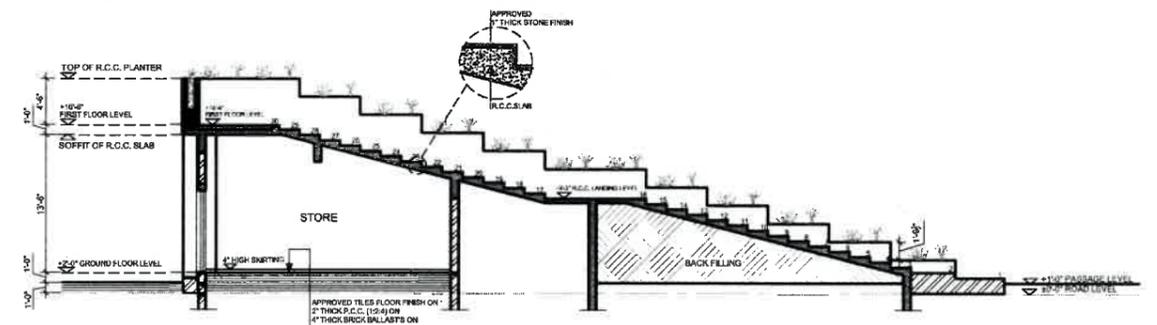


RIGHT SIDE ELEVATION



SECTION AT C-C

TENDER DRAWING



SECTION AT D-D

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CLIENT  
**PAKISTAN INSTITUTE OF FASHION DESIGN**

PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

TITLE  
 RIGHT SIDE ELEVATION & SECTION AT CC & DD

DRAWN BY: SULTAN (318' +1-07)  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021

DRAWING NO.: **A-12**

**NOTES**

- ALUMINUM DOOR DETAILS**
- 100 mm THICK, 100 mm ANODIZED BRONZE COLOR ALUMINUM SECTION DELUX OF M/S AL-COP & PAKISTAN CABLES
  - USE 5 mm THICK IMPORTED TINTED GLASS
  - PROVISION OF DOOR CLOSER, LOCK & (75mm) WIDE LONG HANDLES FOR DOOR

- ALUMINUM WINDOW DETAILS**
- SLIDING FRAME SECTION (100mmx30mm)
  - SIDE LEAF SIZE SECTION (60mmx23mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - CENTER SIZE SECTION (45mmx25mm)
  - SIDE JALI LEAF SIZE SECTION (43mmx13mm)
  - 5mm THICK IMPORTED TINTED GLASS

TENDER DRAWING

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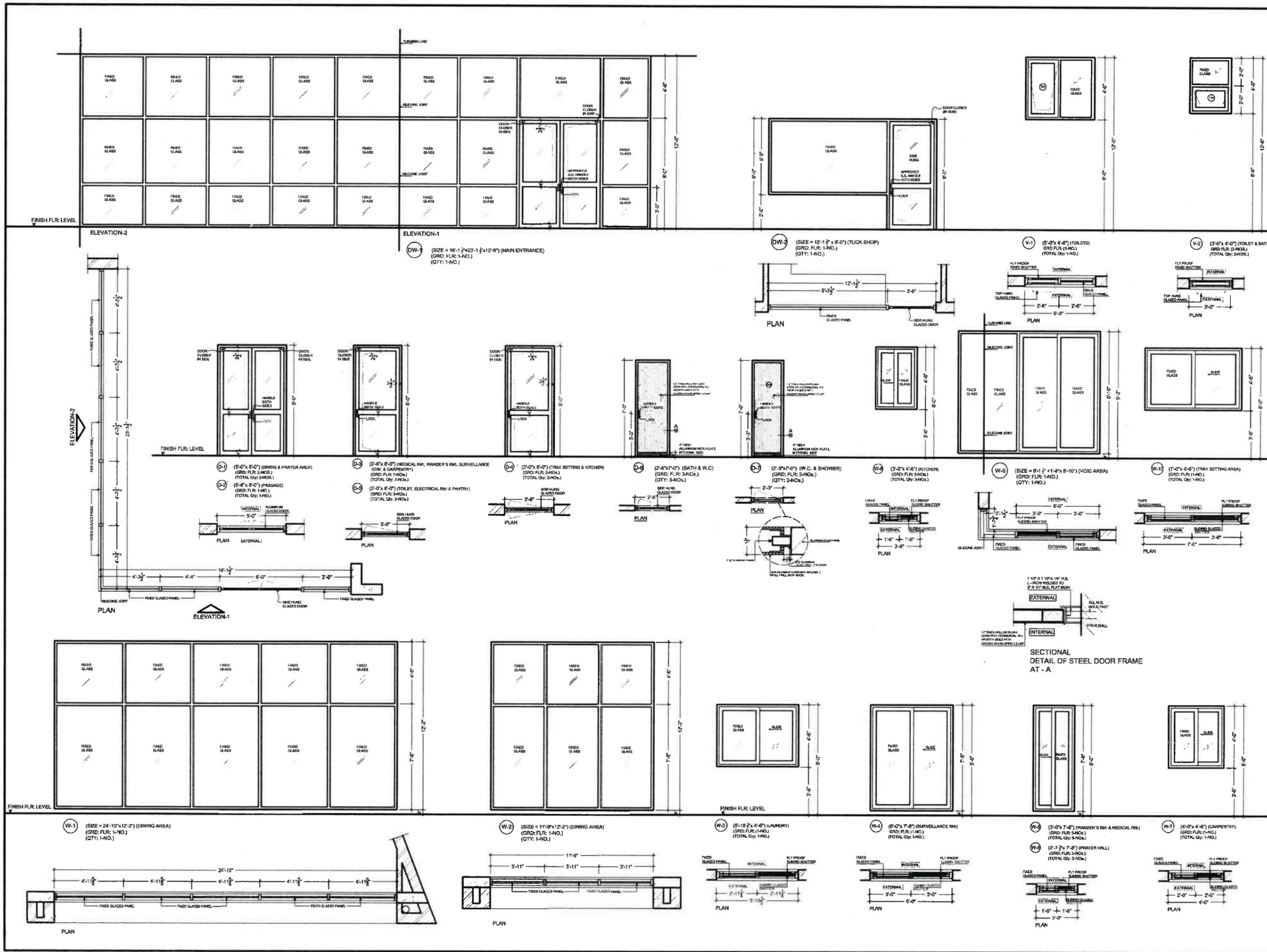
**CLIENT**  
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**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
 EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY GROUND FLOOR)

**DRAWN BY** SULTAN  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021

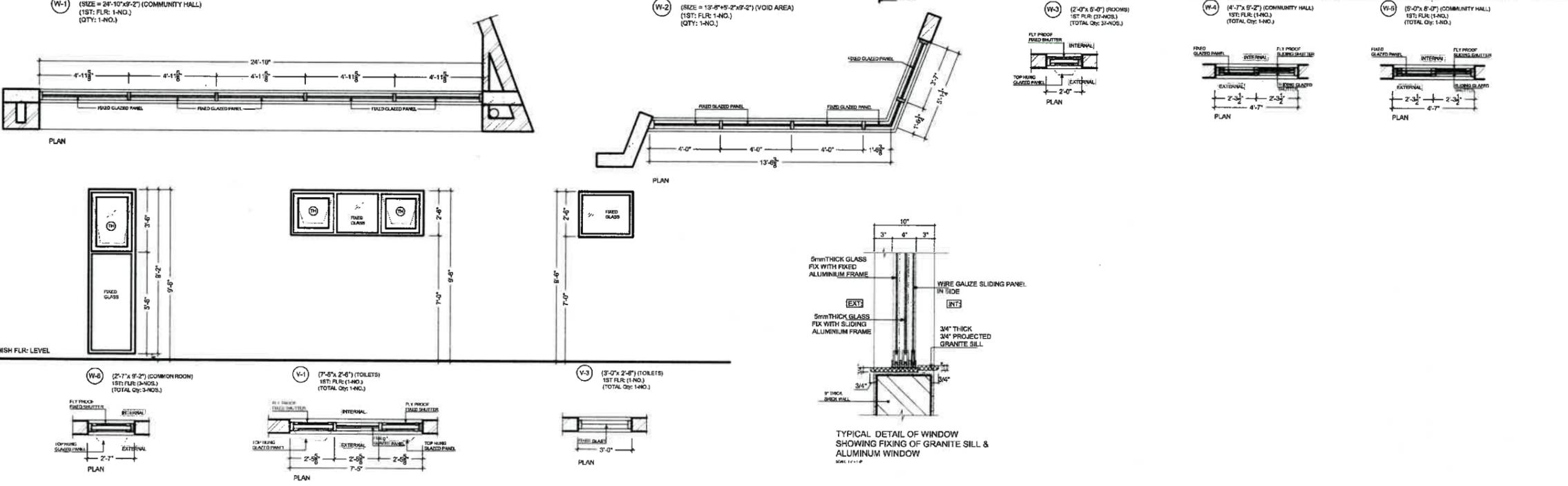
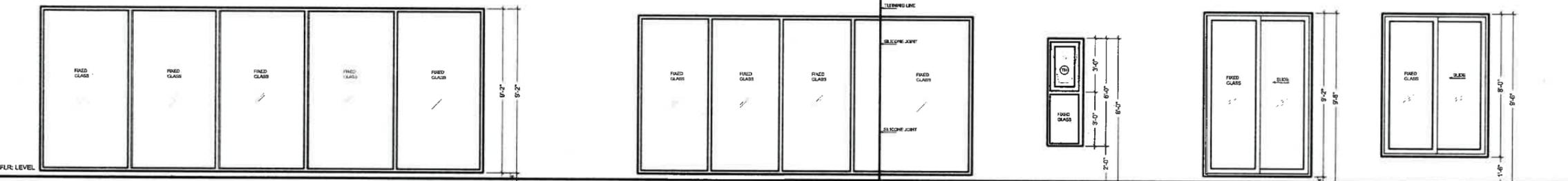
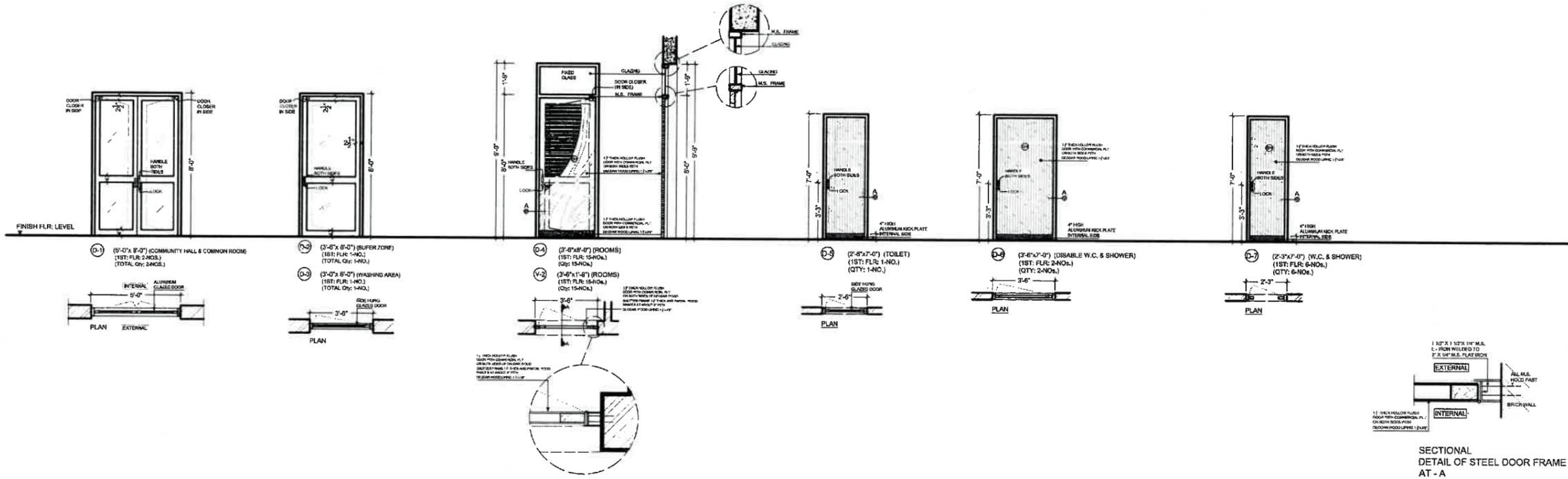
**DRAWING NO.** A-13



**NOTES**

- ALUMINUM DOOR DETAILS**
- 100 mm THICK, 100 mm ANODIZED BRONZE COLOR ALUMINUM SECTION DELUX OF M/S AL-COP & PAKISTAN CABLES
  - USE 5 mm THICK IMPORTED TINTED GLASS
  - PROVISION OF DOOR CLOSER, LOCK & (75mm) WIDE LONG HANDLES FOR DOOR

- ALUMINUM WINDOW DETAILS**
- SLIDING FRAME SECTION (100mmx30mm)
  - SIDE LEAF SIZE SECTION (60mmx23mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - CENTER SIZE SECTION (45mmx25mm)
  - SIDE JALI LEAF SIZE SECTION (43mmx13mm)
  - 5mm THICK IMPORTED TINTED GLASS



TENDER DRAWING

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 E-MAIL: MAIL@IAACONSULTANCY.COM

**CLIENT**  
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**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
 EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY FIRST FLOOR)

**DRAWN BY** SULTAN  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021

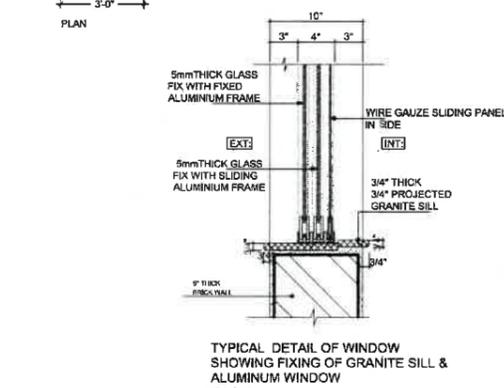
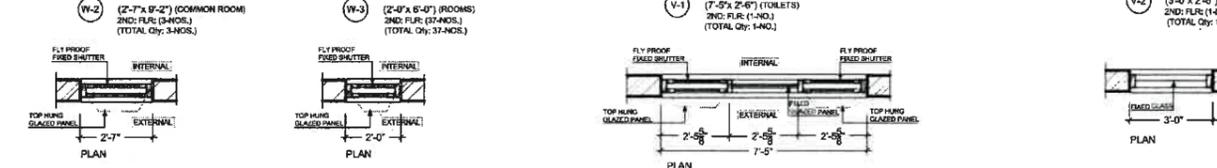
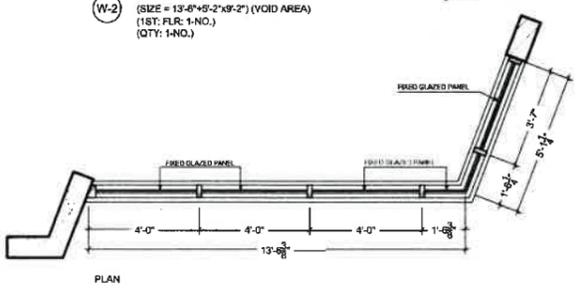
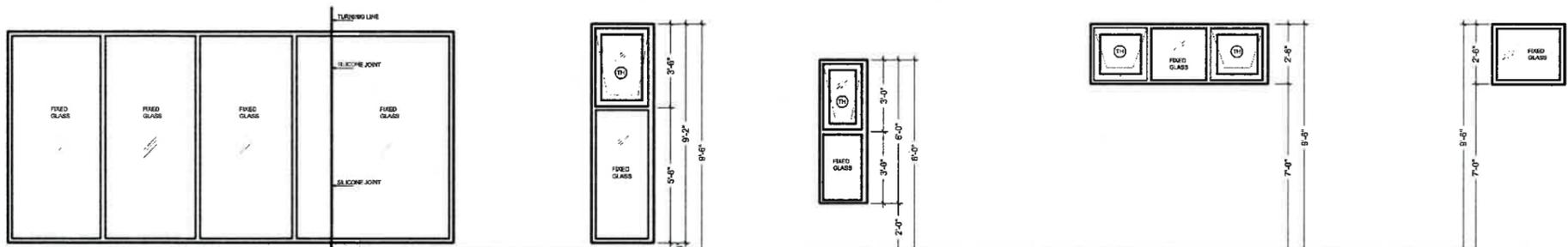
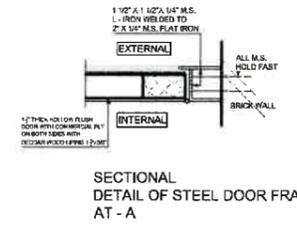
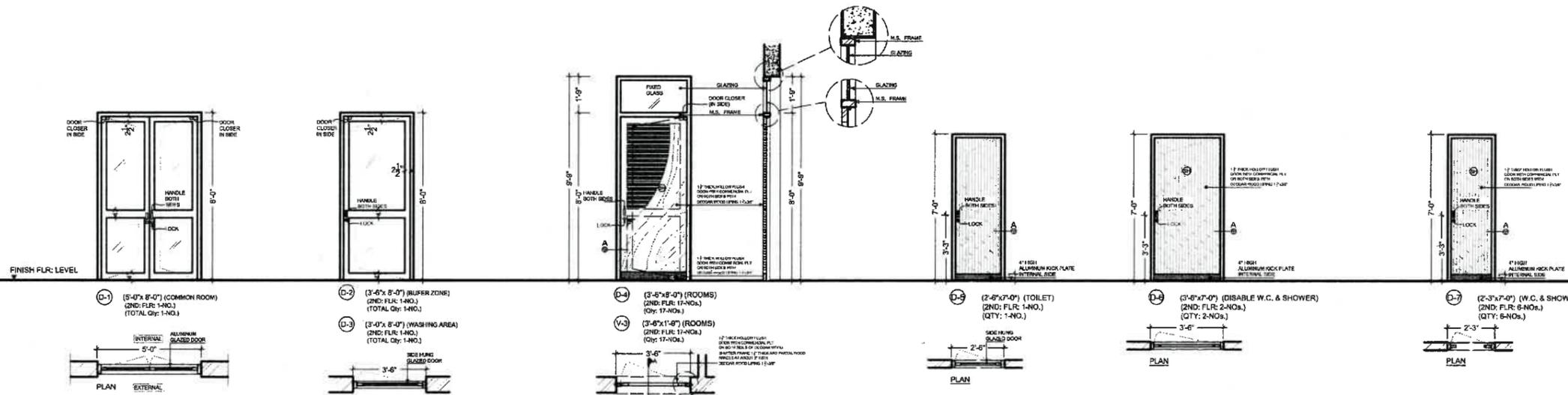
**DRAWING NO.** A-14

**NOTES**

- ALUMINUM DOOR DETAILS**
- 100 mm THICK, 100 mm ANODIZED BRONZE COLOR ALUMINUM SECTION DELUX OF M/S AL-COP & PAKISTAN CABLES
  - USE 5 mm THICK IMPORTED TINTED GLASS
  - PROVISION OF DOOR CLOSER, LOCK & (75mm) WIDE LONG HANDLES FOR DOOR

- ALUMINUM WINDOW DETAILS**
- SLIDING FRAME SECTION (100mmx30mm)
  - SIDE LEAF SIZE SECTION (60mmx23mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - CENTER SIZE SECTION (45mmx25mm)
  - SIDE JALI LEAF SIZE SECTION (43mmx13mm)
  - 5mm THICK IMPORTED TINTED GLASS

TENDER DRAWING



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**CLIENT**  
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**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
 EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY SECOND FLOOR)

**DRAWN BY** SULTAN  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021

**DRAWING NO.**  
**A-15**

**NOTES**

- ALUMINUM DOOR DETAILS**
- 100 mm THICK, 100 mm ANODIZED BRONZE COLOR ALUMINUM SECTION DELUX OF M/S AL-COP & PAKISTAN CABLES
  - USE 5 mm THICK IMPORTED TINTED GLASS
  - PROVISION OF DOOR CLOSER, LOCK & (75mm) WIDE LONG HANDLES FOR DOOR

- ALUMINUM WINDOW DETAILS**
- SLIDING FRAME SECTION (100mmx30mm)
  - SIDE LEAF SIZE SECTION (60mmx23mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - CENTER SIZE SECTION (45mmx25mm)
  - SIDE JALI LEAF SIZE SECTION (43mmx13mm)
  - 5mm THICK IMPORTED TINTED GLASS

TENDER DRAWING

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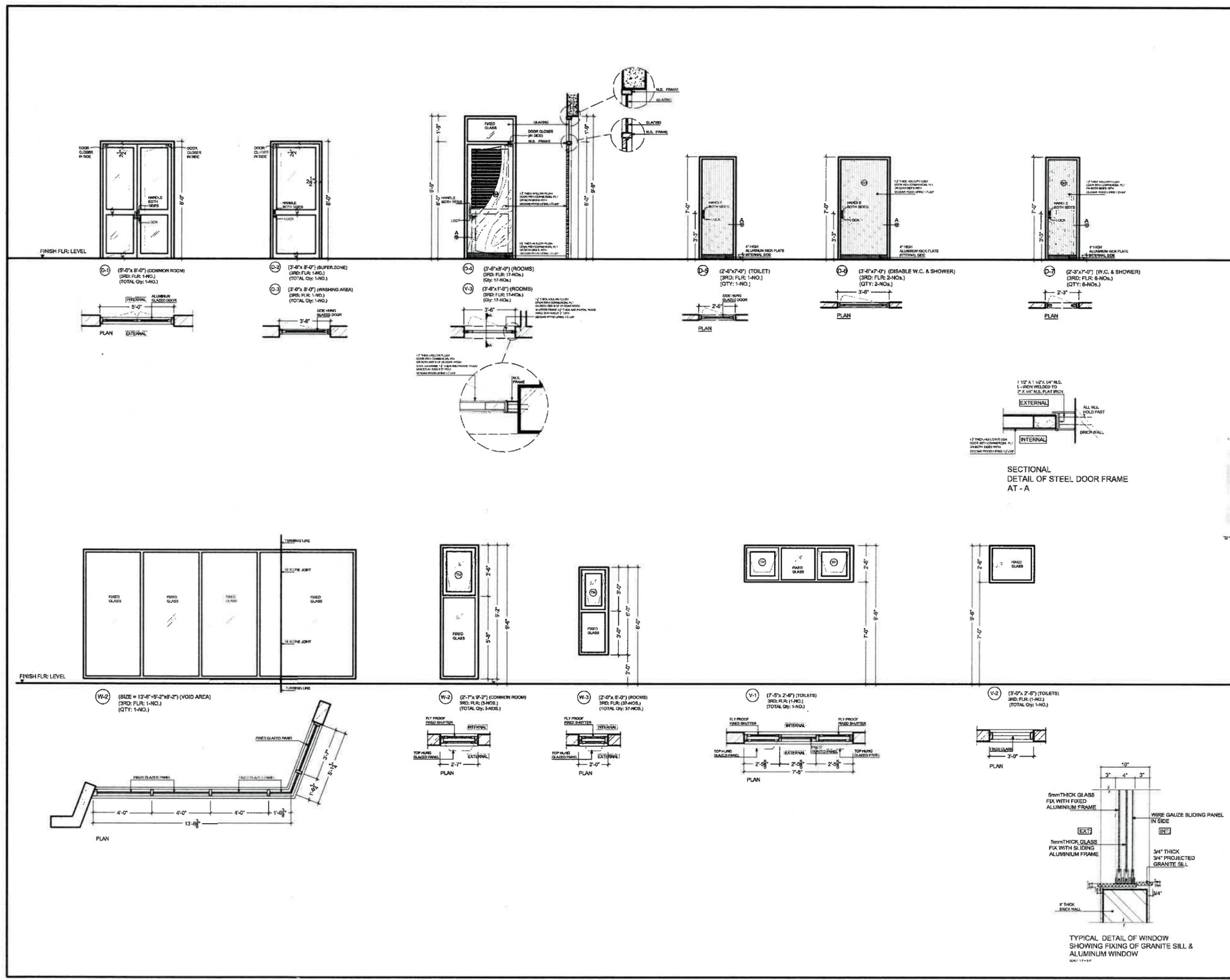
**CLIENT**  
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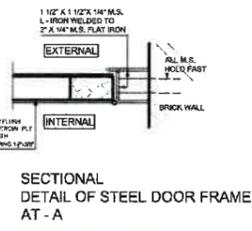
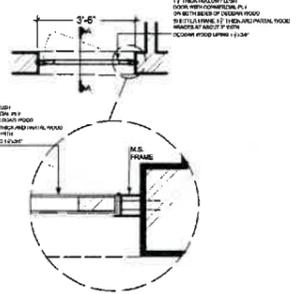
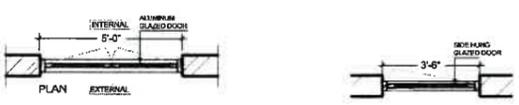
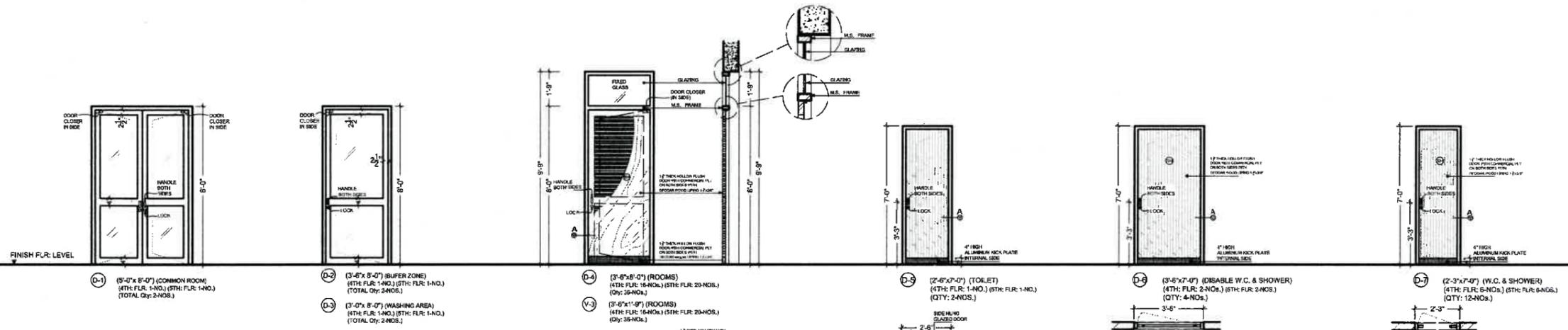
**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
 EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY THIRD FLOOR)

DRAWN BY: SULTAN  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021

DRAWING NO. **A-16**





- NOTES**
- ALUMINUM DOOR DETAILS**
- 100 mm THICK, 100 mm ANODIZED BRONZE COLOR ALUMINUM SECTION DELUX OF M/S AL-COP & PAKISTAN CABLES
  - USE 5 mm THICK IMPORTED TINTED GLASS
  - PROVISION OF DOOR CLOSER, LOCK & (75mm) WIDE LONG HANDLES FOR DOOR
- ALUMINUM WINDOW DETAILS**
- SLIDING FRAME SECTION (100mmx30mm)
  - SIDE LEAF SIZE SECTION (60mmx23mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - TOP AND BOTTOM SECTION (45mmx25mm)
  - CENTER SIZE SECTION (45mmx25mm)
  - SIDE JALI LEAF SIZE SECTION (43mmx13mm)
  - 5mm THICK IMPORTED TINTED GLASS

TENDER DRAWING

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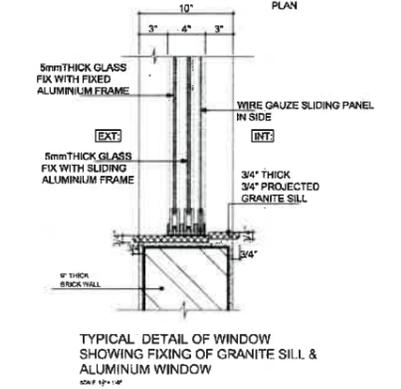
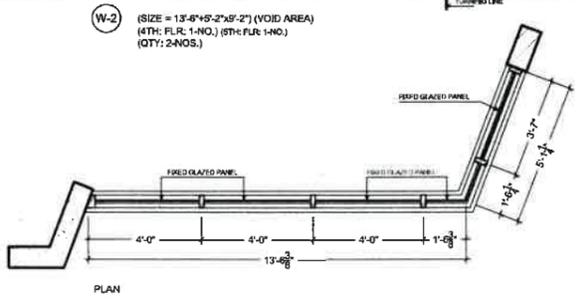
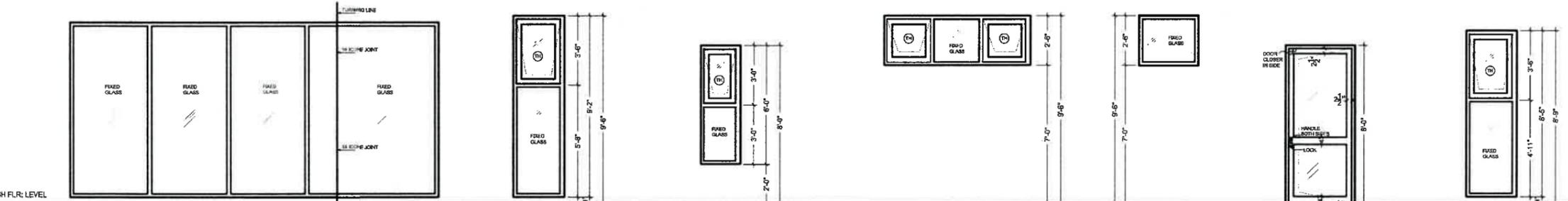
**CLIENT**  
 PAKISTAN INSTITUTE OF FASHION DESIGN

**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

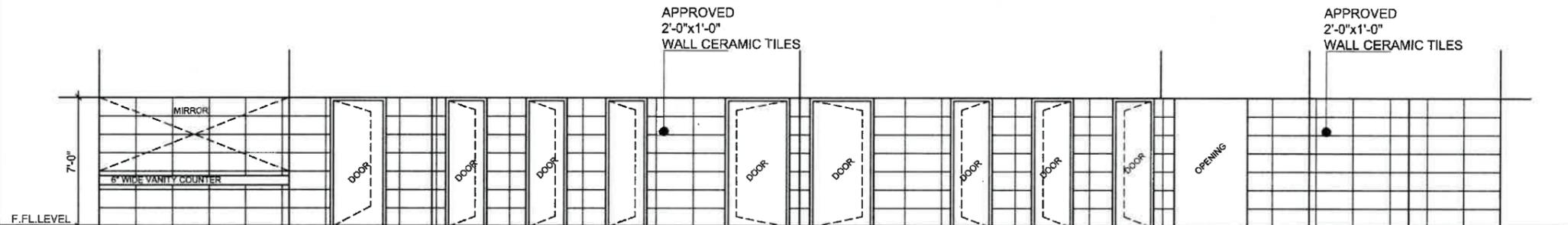
**TITLE**  
 EXTERNAL ELEVATION OF ALUMINUM DOOR & WINDOWS (ONLY 4TH, 5TH & MUMTY FLOOR)

**DRAWN BY** SULTAN  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021

**DRAWING NO.**  
 A-17



TYPICAL DETAIL OF WINDOW SHOWING FIXING OF GRANITE SILL & ALUMINUM WINDOW

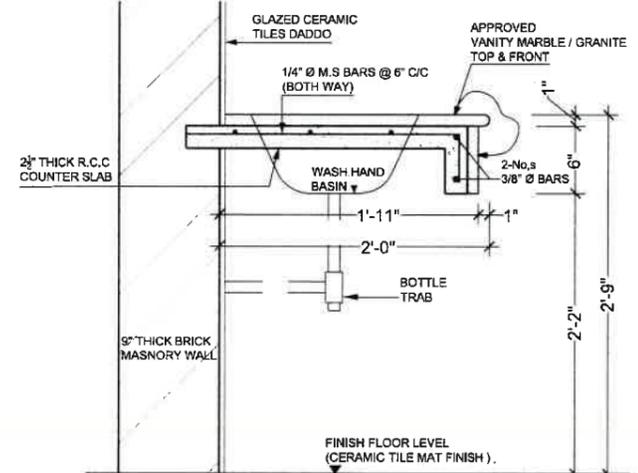
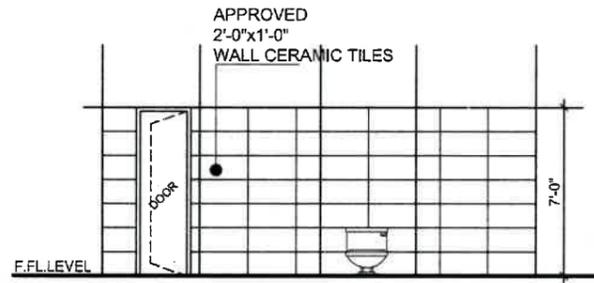
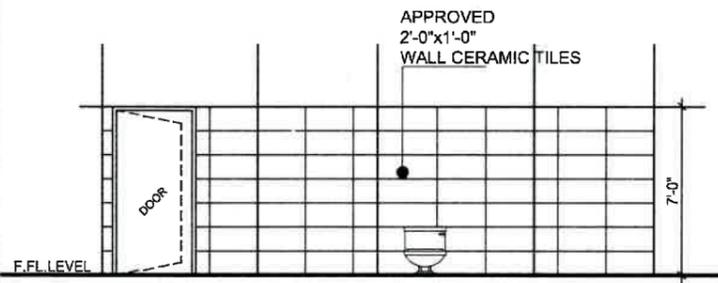


ELE:1

ELE:2

ELE:3

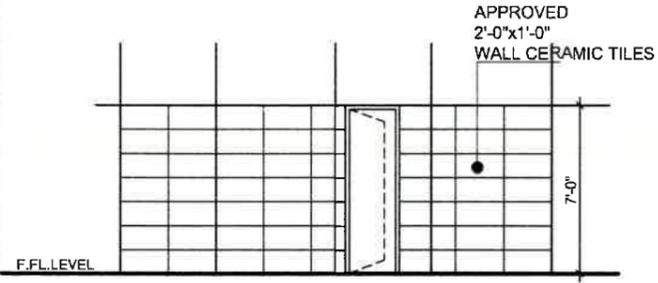
ELE:4



TYPICAL VANITY SECTION

ELE:5 ELE:6 ELE:7 ELE:8  
(2-NOS. DISABLE W.C. & SHOWER)

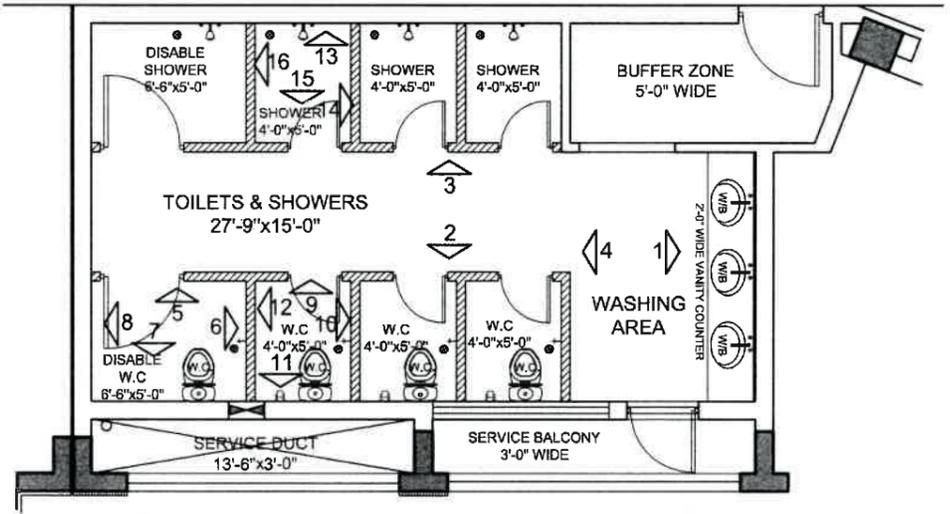
ELE:9 ELE:10 ELE:11 ELE:12  
(3-NOS. W.C.)



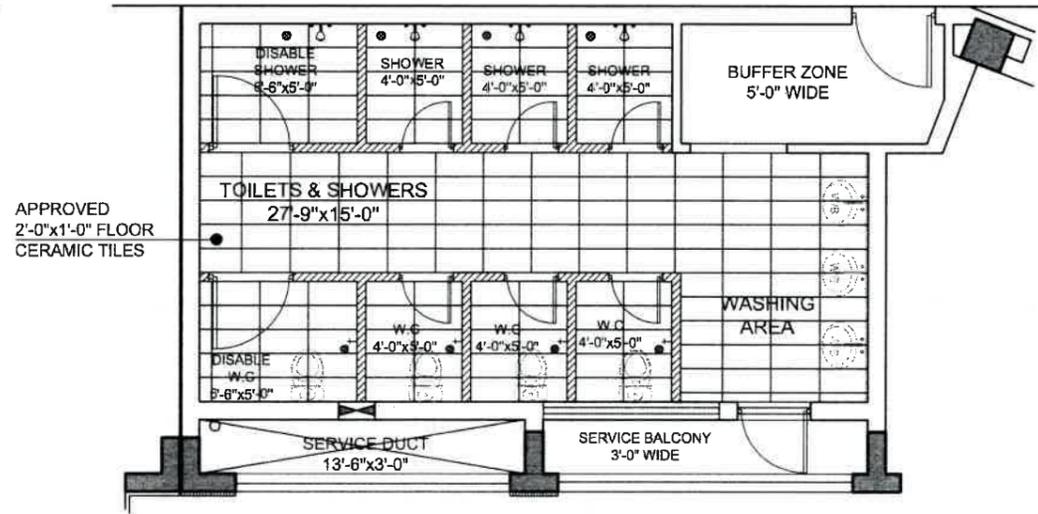
**TOILETS AREA TILES QUANTITY  
WITH 10% WASTAGE** (FT) (ST) (3T) (4T) (5T)

2'-0"x1'-0" WALL & FLOOR TILES  
EACH FLOOR AREA = 205 Sq. m.  
TOTAL (1ST:TO 5TH: FLR:) = 1025 Sq. m.

ELE:13 ELE:14 ELE:15 ELE:16  
(3-NOS. SHOWERS)



**TYPICAL TOILETS LAYOUT PLAN**  
(FIRST, 2ND, 3RD, 4TH & 5TH: FLOOR)



**FLOOR DIVISIONS PLAN**  
(FIRST, 2ND, 3RD, 4TH & 5TH: FLOOR)

TENDER DRAWING



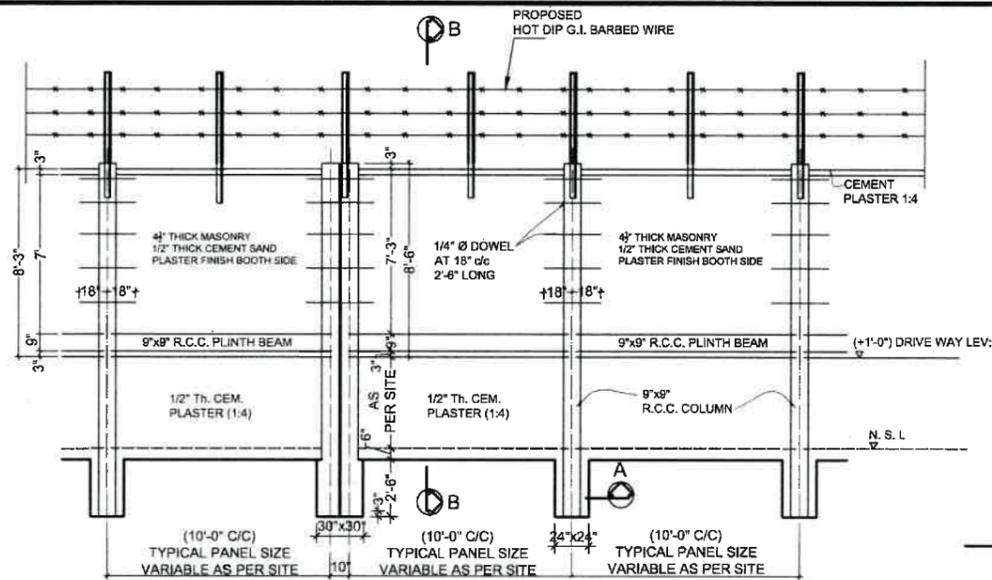
**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
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**CLIENT**  
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**PROJECT**  
PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

**TITLE**  
TYPICAL TOILETS & SHOWERS DETAIL (FIRST TO FIFTH FLOOR)  
**DRAWN BY** SHOAB  
**DATE** JUNE: 2021  
**PROJECT NO.** 1292/2021  
**DRAWING NO.**

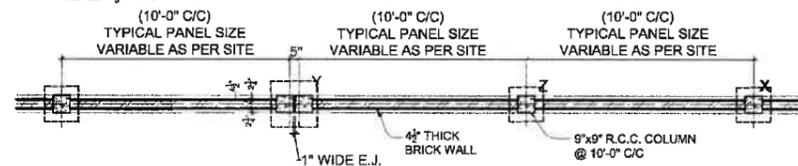






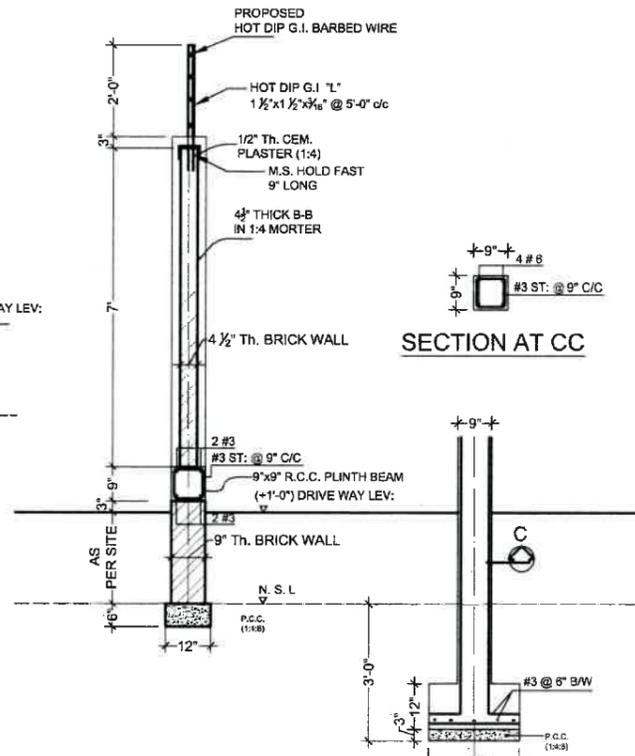
**PART ELEVATION OF PRECAST BOUNDARY WALL (DETAIL-1)**

SCALE = 1/8" = 1'-0"



**PART PLAN OF PRECAST BOUNDARY WALL (NORTH & EAST SIDES)**

SCALE = 1/8" = 1'-0"



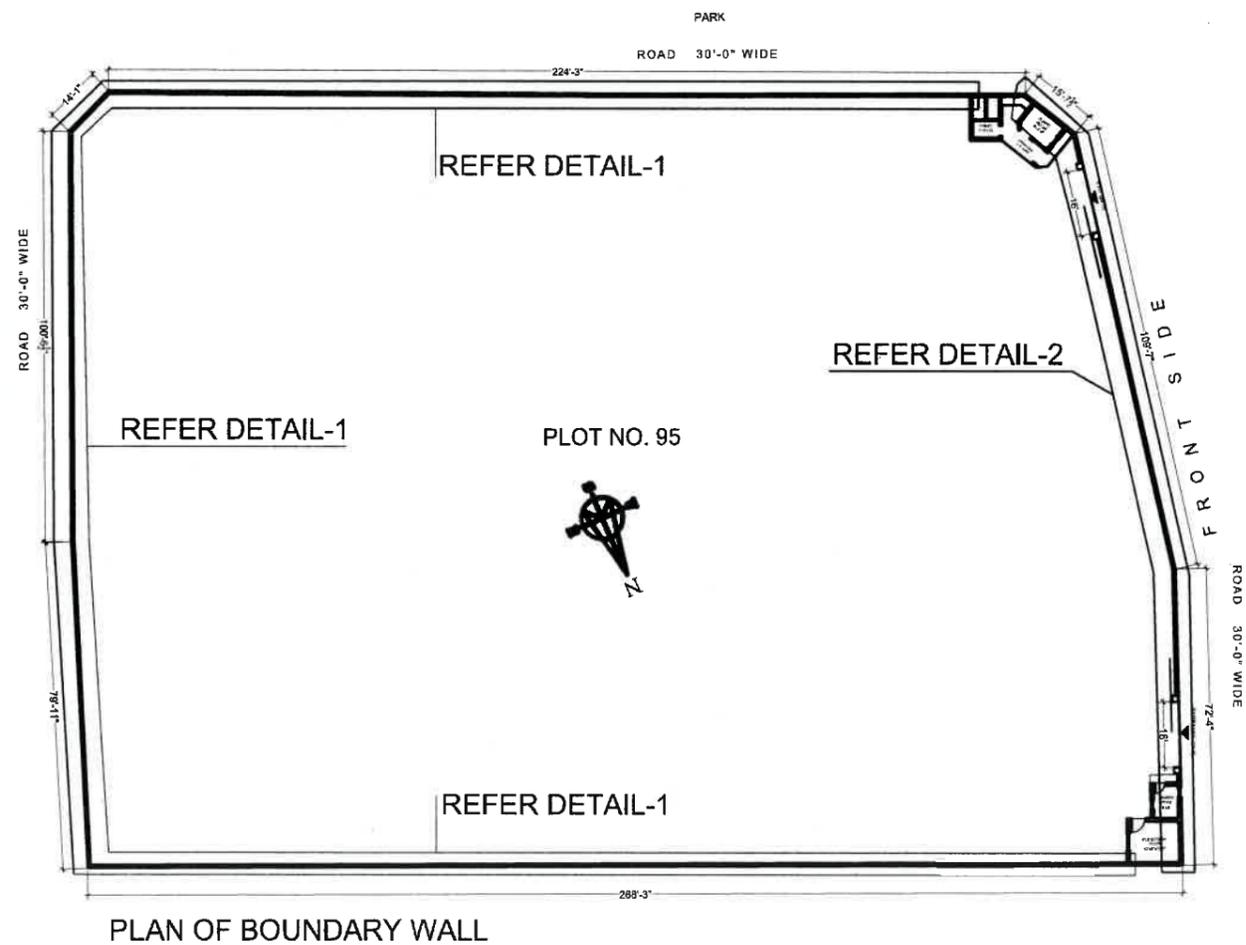
**SECTION AT B-B**

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

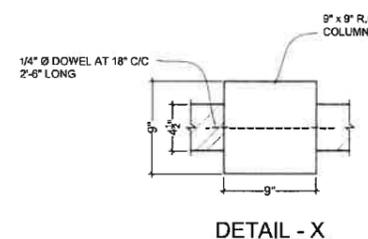
**SECTION AT CC**

**SECTION AT AA**

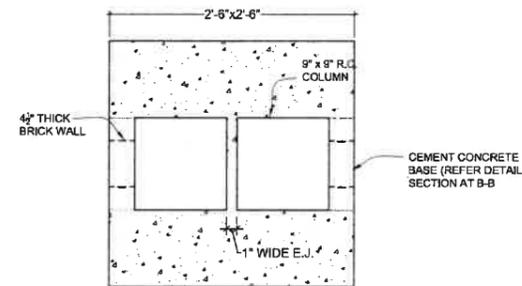
SCALE = 1/4" = 1'-0"



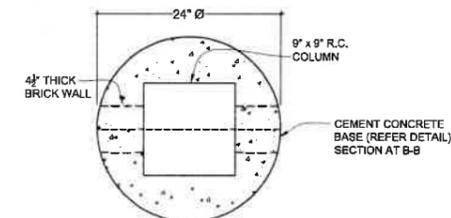
**PLAN OF BOUNDARY WALL**



**DETAIL - X**



**PLAN OF CEMENT CONCRETE BASE FOR PRECAST VERTICAL POST AT-Y**



**PLAN OF CEMENT CONCRETE BASE FOR PRECAST VERTICAL POST AT-Z**

TENDER DRAWING

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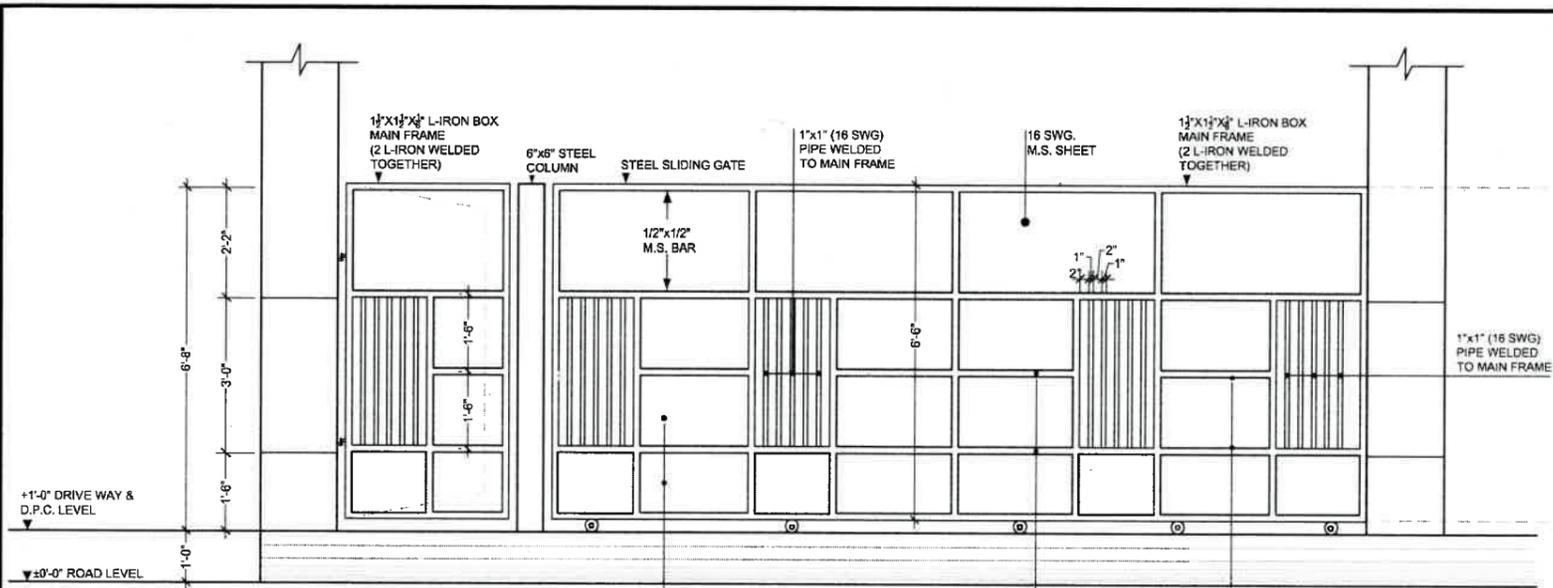
**CLIENT**  
 PAKISTAN INSTITUTE OF FASHION DESIGN

**PROJECT**  
 PROPOSED FEMALE HOSTEL FOR PIFD AT ST/1/III JOHAR TOWN LAHORE

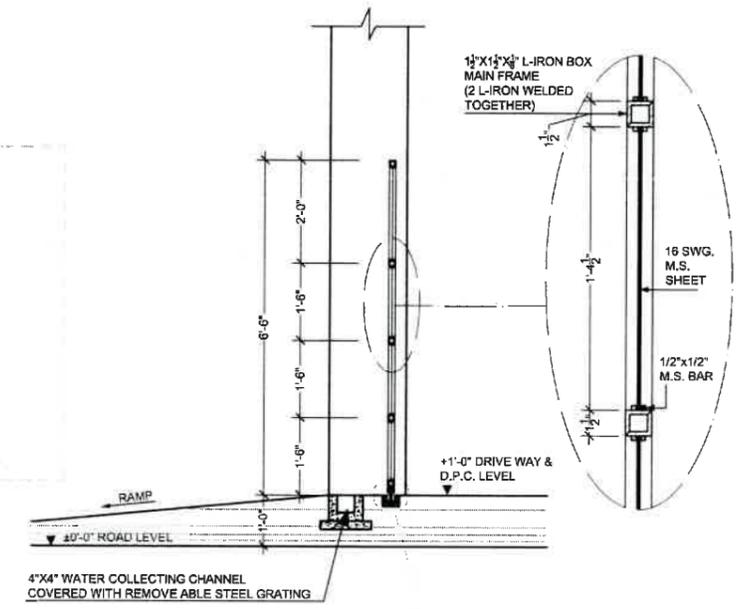
**TITLE**  
 BOUNDARY WALL DETAIL-1

**DRAWN BY** SULTAN (3/16"=1'-0")  
**DATE** MAY: 2021  
**PROJECT NO.** 1292/2021

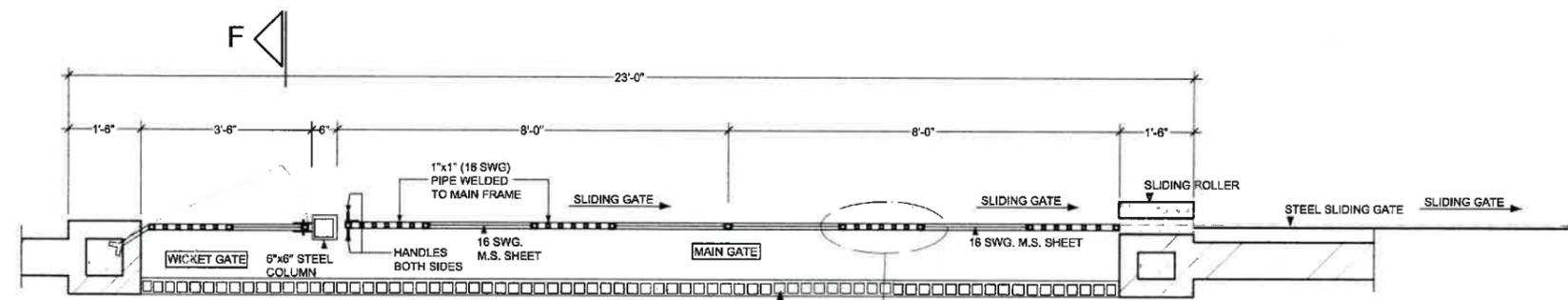
**DRAWING NO.** A-21



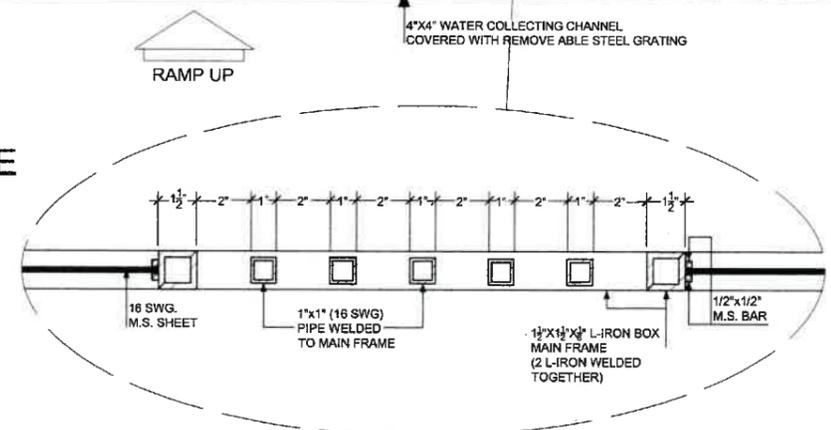
ELEVATION OF MAIN GATE



SECTION AT F-F



PLAN OF MAIN GATE (2-NOS.)



DETAIL OF WATER COLLECTING CHANNEL

TENDER DRAWING

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 PROJECT  
 PROPOSED FEMALE HOSTEL FOR PIFD AT S1/J/III JOHAR TOWN LAHORE

TITLE  
**DETAIL OF MAIN GATE**

DRAWN BY: SULTAN (3/16" = 1'-0")  
 DATE: MAY: 2021  
 PROJECT NO.: 1292/2021

DRAWING NO.  
**A-22**

PROPOSED  
FEMALE HOSTEL FOR  
PAKISTAN INSTITUTE OF FASHION AND DESIGN  
ON PLOT NO. 95 BLOCK A/3 AT  
JOHAR TOWN LAHORE

STRUCTURAL  
TENDER DRAWINGS

JUNE: 2021

**LIST OF DRAWINGS**

STRUCTURAL DRAWINGS

S. NO.	TITLE	DWG. NO.
1	GENERAL STRUCTURAL NOTES	GSN-01
2	FOUNDATION LAYOUT PLAN	S-01
3	REINF:DETAIL OF RAFT LAYOUT PLAN (ONLY FOR BOTTOM BARS)	S-02
4	REINF:DETAIL OF RAFT LAYOUT PLAN (ONLY FOR TOP BARS)	S-03
5	FOUNDATION'S SECTIONS SEC: 1-1 TO 3-3	S-04
6	FOUNDATION'S SECTIONS (SEC: 4-4 TO 6-6) & SHEAR WALL	S-05
7	FOUNDATION'S SECTIONS (SEC: 7-7 TO 8-8) & TYP: BRICK SEC:	S-06
8	REINF:DETAIL OF COLUMNS (C-1 TO C-10)	S-07
9	REINF:DETAIL OF COLUMNS (C-11 TO C-16)	S-08
10	REINF:DETAIL OF LIFT PLAN	S-09
11	REINF:DETAIL OF LIFT ELEVATION & SECTION	S-10
12	FRAMING PLAN OF PLINTH BEAM BLOCK-B	S-11
13	FRAMING PLAN OF PLINTH BEAM (PB-1 TO PB-11)	S-12
14	FRAMING PLAN OF REINFORCEMENT DETAIL OF PLINTH BEAM (PB-1 TO PB-12) BLOCK-A	S-13
15	DETAIL OF PLINTH BEAM (PB-13 TO PB-16) BLOCK-A	S-14
16	REINF:DETAIL OF FIRST FLOOR SLAB & BEAM (B-1 TO B-10) BLOCK-A	S-15
17	REINF:DETAIL OF BEAMS (FIRST SLAB) (B-11 TO B-16) BLOCK-A	S-16
18	REINF:DETAIL OF BEAMS (FIRST SLAB) (B-17 TO B-21 AND CB-1) BLOCK-A	S-17
19	REINF:DETAIL OF 2ND, 3RD, 4TH, 5TH: SLAB & BEAM (B-1 TO B-4) BLOCK-A	S-18
20	REINF:DETAIL OF BEAMS (TYP: FLOOR) (B-5 TO B-13) BLOCK-A	S-19
21	REINF:DETAIL OF BEAMS (TYP: FLOOR) (B-14 TO B-17 & CB:-1) BLOCK-A	S-20
22	REINF:DETAIL OF ROOF SLAB & BEAMS (B-1 TO B-10) BLOCK-A	S-21
23	REINF:DETAIL OF BEAMS (ROOF SLAB) (B-11 TO B-18) BLOCK-A	S-22
24	REINF:DETAIL OF FIRST SLAB BLOCK-B	S-23
25	REINF:DETAIL OF BEAMS (FIRST SLAB) (B-1 TO B-8) BLOCK-B	S-24
26	REINF:DETAIL OF BEAMS (FIRST SLAB) (B-9 TO B-17) BLOCK-B	S-25
27	REINF:DETAIL OF SECOND FLOOR SLAB BLOCK-B	S-26
28	REINF:DETAIL OF BEAMS (SECOND SLAB) (B-1 TO B-9) BLOCK-B	S-27
29	REINF:DETAIL OF THIRD & FOURTH FLOOR SLAB BLOCK-B	S-28
30	REINF:DETAIL OF BEAMS (THIRD & FOURTH SLAB) (B-1 TO B-8) BLOCK-B	S-29
31	REINF:DETAIL OF FIFTH FLOOR SLAB BLOCK-B	S-30
32	REINF:DETAIL OF BEAMS (FIFTH SLAB) (B-1 TO B-8) BLOCK-B	S-31
33	REINF:DETAIL OF ROOF SLAB BLOCK-B	S-32
34	REINF:DETAIL OF BEAMS (ROOF SLAB) (B-1 TO B-9) BLOCK-B	S-33



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# GENERAL STRUCTURAL NOTES:.

## GENERAL:.

- 1- READ ALL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL & 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 & WORKMANSHIP SHALL CONFORM TO RELEVANT BRITISH/ACI CODES AND SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- 4- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY FOR 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 CO-ORDINATE WITH ARCHITECTURAL AND VARIOUS SERVICES DRAWINGS FOR SIZES & 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.
- 7- TERMITE CONTROL TREATMENT SHALL BE CARRIED OUT IN ALL BUILDINGS/ STRUCTURES
- 8- ALL LEVELS AND DIMENSIONS ARE IN FT & INCH UNLESS OTHERWISE NOTED.
- 9- DO NOT SCALE THE DRAWINGS. DIMENSIONS, GIVEN ON THE DRAWING, SHALL GOVERN.

## MATERIALS:.

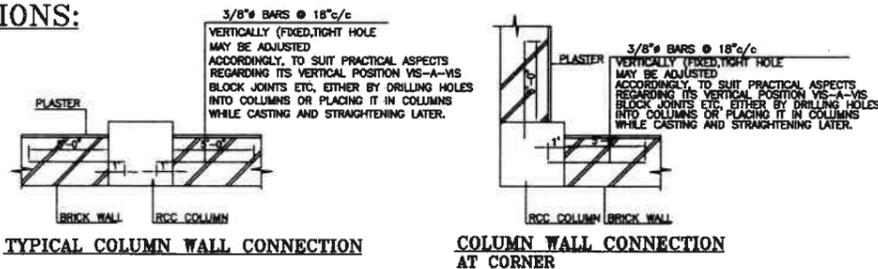
### 1- CONCRETE

- 1- FOLLOWING CONCRETE GRADE SHALL BE USED:  
COLUMNS, R.C.C WALLS & FOUNDATION : CLASS A HAVING  $f_c' = 4000$  psi  
ALL OTHER STRUCTURE MEMBER : CLASS A HAVING  $f_c' = 3000$  psi  
BLINDING: 1:4:8 : CLASS B  
WHERE  $f_c'$  IS CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE CYLINDER AFTER 28 DAYS.
- 2- MAXIMUM AGGREGATE SIZE SHALL BE  $3/4" \phi$  (GRADED).
- 3- BACK FILL SHALL BE DONE IN LAYERS NOT EXCEEDING 150mm THICKNESS IN ONE PASS AND SHOULD BE COMPACTED TO 95% MODIFIED AASHTO DENSITY AS PER AASHTO GUIDELINES.
- 4- CRUSHED STONE  $3/4"$  (GRADED) DOWN SHOULD BE USED IN P.C.C (1:4:8)
- 5- UNLESS OTHERWISE NOTED, WELDING OF REINFORCING STEEL IS PROHIBITED.
- 6- THE CONTRACTOR SHOULD SATISFY ALL DIMENSIONS, ELEVATIONS WITH RESPECT TO ARCHITECTURAL, STRUCTURAL, HVAC ELECTRICAL DRAWINGS AND SITE CONDITIONS PRIOR TO POURING OF CONCRETE.
- 7- ALL CONCRETE SHOULD BE FAIR FACE, USE OF PLASTESIZER IS RECOMENDED TO GAIN HIGH SLUMP. SLUMP SHOULD NOT BE LESS THAN 4" OVER OR UNDER VIBRATION OF CONCRETE SHOULD BE AVOIDED.
- 8- CONTRACTOR HAVE TO SUBMIT DESIGN MIX. FOR APPROVAL BEFORE EXECUTION OF WORK.

### 2- REINFORCING STEEL

- a- USE DEFORMED STEEL REINFORCING BARS WITH MIN. YIELD STRENGTH OF 60,000 p.s.i PER ASTM SPECIFICATIONS A615

## CONNECTIONS:



## CONSTRUCTION:.

### 1- EXCAVATION:

EXCAVATION FOR STRUCTURES SHALL BE NEAT AND WELL COMPACTED BASES BEFORE LAYING PCC

### 2- FOUNDATION:

- 1- BEFORE LAYING OF FOUNDATION ALL EXCAVATION AREA SHOULD BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- 2- TWO COATS OF BITUMEN PAINT SHALL BE APPLIED ON CONCRETE IN CONTACT WITH EARTH AND OVER BLINDING CONCRETE SURFACES.

### 3- CONSTRUCTION JOINTS:

- 1- JOINTS, NOT SHOWN ON THE DRAWING, 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 NOT BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLAB & BEAMS. JOINTS IN WALLS & COLUMNS SHALL BE AT THE UNDER-SIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTING OR FLOOR SLABS.
- 2- JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS CONSTRUCTION JOINTS.
- 3- JOINTS IN THE BASE SLAB & WALLS AND ROOF SLAB, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR, BEAMS & BRACKETS SHALL BE PLACED AT THE SAME TIME AS SLABS.
- 4- WATER STOPS SHALL BE PROVIDED ON ALL THE CONSTRUCTION JOINTS AND CONTRACTION AND EXPANSION JOINTS AS SPECIFIED AND AS APPROVED BY THE ENGINEER.

### 4- ELECTRICAL CONDUITS:

- 1- CONDUITS, FOR ELECTRICAL WORKS, SHALL BE PLACED WITHIN THE REINFORCED CONCRETE, THEY SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE SECTION IN BEAMS & SLABS AND WITHIN THE MIDDLE HALF OF THE THICKNESS. SPACING BETWEEN PARALLEL CONDUITS SHALL BE LESS THAN 6 INCHES.

### 5- SHORING BRACING:

- 1- SHORE & BRACE ALL PARTS OF THE BUILDING DURING CONSTRUCTION. TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH & SERVICEABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS WHICH MAY OCCUR DURING CONSTRUCTION. SUCH SHORING & BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT.

### 6- CONCRETE COVER:

THE COVER MEASURED FROM THE SURFACE OF THE CONCRETE TO THE FACE OF ANY REINFORCEMENT SHALL, UNLESS OTHERWISE SHOWN ON THE DRAWING, OR DIRECTED BY THE ENGINEER, SHOULD NOT BE LESS THAN THE FOLLOWING

- 1) SLABS  $3/4"$
- 2) BEAMS
  - i) SIDES  $1"$
  - ii) BOTTOM  $1 1/2"$
  - iii) TOP  $1 1/2"$
- 3) COLUMNS  $1 1/2"$
- 4) FOOTINGS  $2"$
- 5) R.C.C.WALL  $1 1/2"$

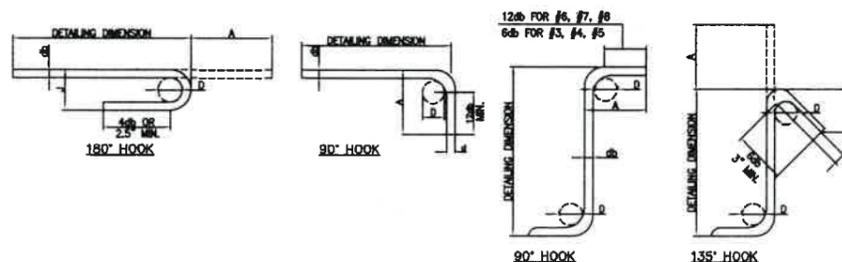
### 7- LINTELS:

FOR ALL CAST IN SITE LINTEL DO NOT REMOVE SHUTTERING BEFORE THE CONSTRUCTION OF WALL ABOVE.

## BAR DEVELOPMENT:.

### 1- STANDARD HOOKS:.

UNLESS OTHERWISE SHOWN IN THE DRAWING, STANDARD HOOKS SHALL CONFORM TO THE FOLLOWING GEOMETRY



## 4- DESIGNATIONS, DIAMETERS, AREAS AND WEIGHTS OF STANDARD BARS

BAR NO.	DIAMETER		CROSS SECTION AREA		NOMINAL WEIGHT (lb/ft)	
	FPS	SI	(insq)	(mmsq)		
2	6	2/8=0.25	6	0.049	32	0.179
3	10	3/8=0.375	10	0.11	71	0.376
4	13	4/8=0.5	13	0.20	130	0.668
6	19	6/8=0.750	19	0.44	285	1.502
8	25	1	25	0.79	510	2.670

## SPLICE LENGTH FOR VERTICAL BARS IN COLUMNS/WALLS

BAR SIZE	SPLICE/LAP LENGTH "INCHES" ( $F_y = 60,000$ psi)									
	#3	#4	#5	#6	#7	#8	#9	#10	#11	
3000	18	24	30	36	53	60	68	75	83	
3500	16	21	26	31	46	52	59	65	72	

## TABLE II: STANDARD HOOKS TO MAIN BARS

BAR SIZE	INTERNAL BEND DIAMETER D (IN.)	180° HOOK		90° HOOK
		A (IN.)	J (IN.)	A (IN.)
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"

## TABLE III: STANDARD HOOKS TO STIRRUPS & TIES

BAR SIZE	INTERNAL BEND DIAMETER D (IN.)	90° HOOK		135° HOOK
		A	A	H (APPROX.)
#3	1 1/2"	4"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"

## 5- SYMBOLS & ABBREVIATIONS

- a- p.s.i ----- POUNDS PER SQUARE INCH
- b- c/c ----- CENTER TO CENTER
- c- (B) ----- BOTTOM
- d- (T) ----- TOP
- e-  $\phi$  ----- DIA

CUNET  
PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT  
PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

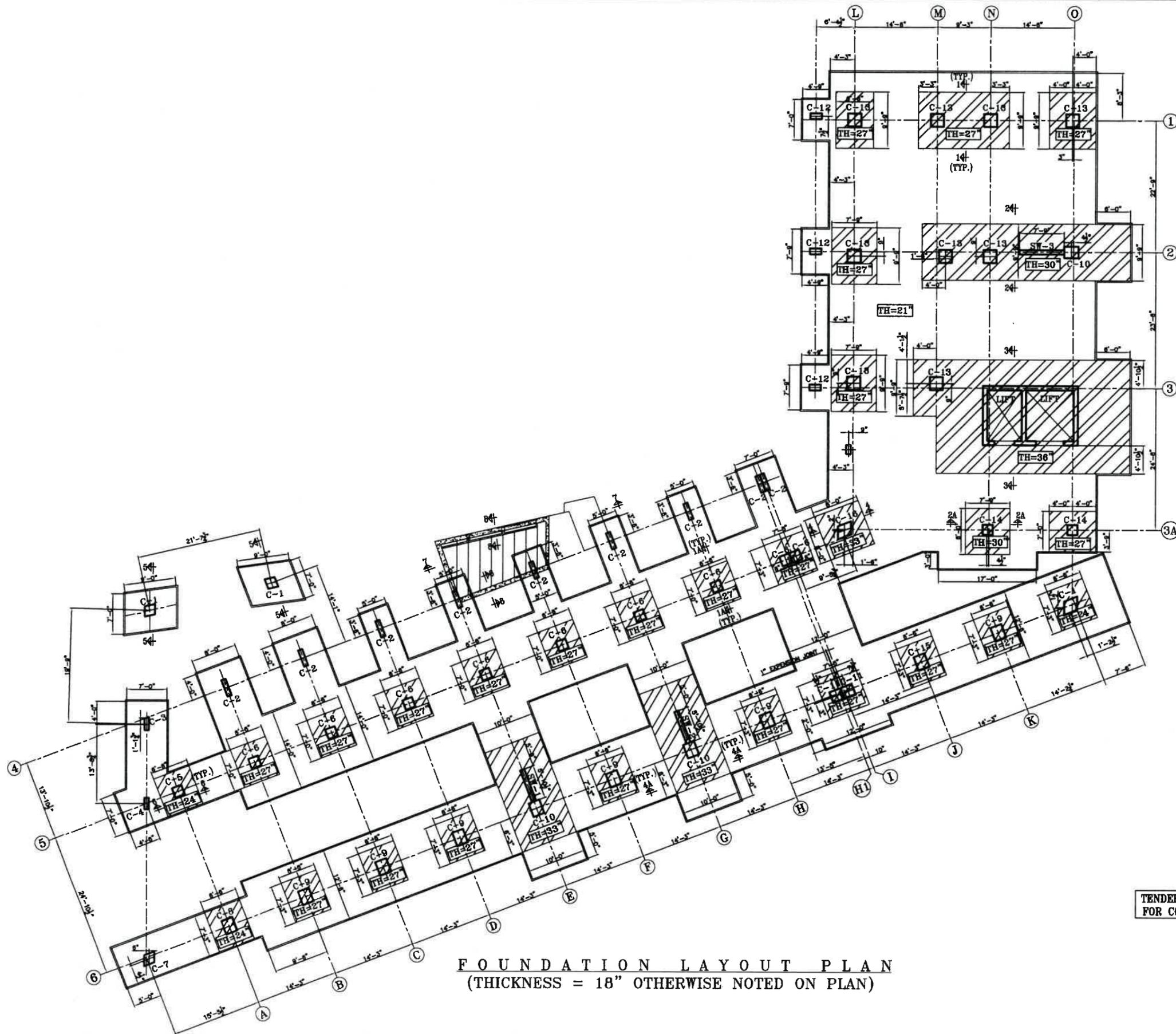
TITLE  
GENERAL STRUCTURAL NOTES

CONSULTANTS:  
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288 - A - UPPER MALL, LAHORE.  
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e-mail: mail@iaaconsultancy.com

STRUCTURE CONSULTANTS:  
CIVIL AND URBAN ENGINEERS.  
475 G, JOHAR TOWN LAHORE  
TEL: 35240756  
E-mail: cue@wot.net.pk

COMPUTERISED	JOB:NO.
DESIGNED BY:	
CHECKED BY:	DRG:NO.
SCALE:	DATE: 08-05-2021 GSN-01

TENDER DRAWING NOT FOR CONSTRUCTION

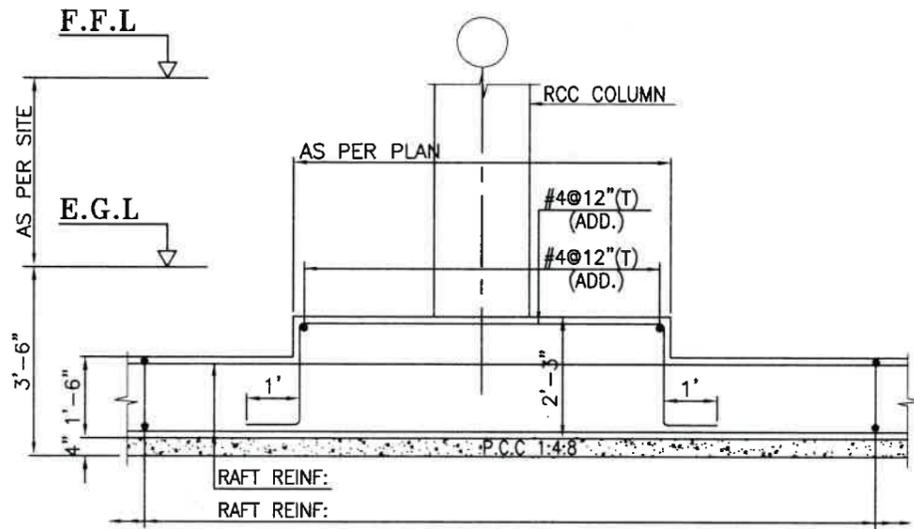


- REFERENCE NOTES:-**
- 1- FOR GENERAL STRUCTURAL NOTES REFER TO DRAWING NO. GSN-01
  - 2- FOR REINF: DETAIL OF RAFT LAYOUT PLAN.(ONLY FOR BOTTOM BARS) REFER TO DRAWING NO. S-02
  - 3- FOR REINF: DETAIL OF RAFT LAYOUT PLAN.(ONLY FOR TOP BARS) REFER TO DRAWING NO. S-03
  - 4- FOR FOUNDATION,S SECTIONS (SEC. 1-1 TO 3-3) REFER TO DRAWING NO. S-04
  - 5- FOR FOUNDATION,S SECTIONS (SEC. 4-4 TO 6-6) & SHEAR WALLS REFER TO DRAWING NO. S-05
  - 6- FOR FOUNDATION,S SECTIONS (SEC. 7-7 & 8-8) & TYP. BRICK SEC. REFER TO DRAWING NO. S-06
  - 7- FOR REINF: DETAIL OF COLUMNS (C-1 TO C-10) REFER TO DRAWING NO. S-07
  - 8- FOR REINF: DETAIL OF COLUMNS (C-11 TO C-16) REFER TO DRAWING NO. S-08

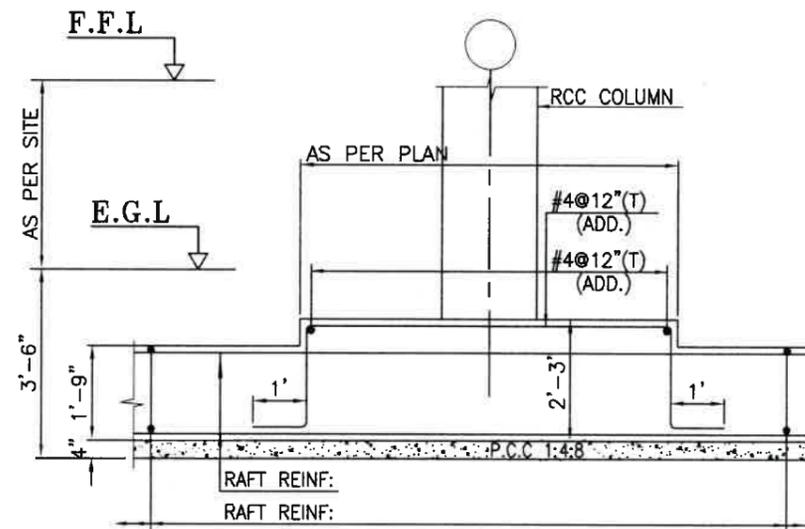
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PROJECT <b>PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.</b>	
TITLE <b>FOUNDATION LAYOUT PLAN</b>	
CONSULTANTS.  <b>IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)</b> ARCHITECTS - ENGINEERS - PLANNERS 298 - A - UPPER MALL, LAHORE Tel: 35713215 - 35874825 35870259 - Fax: 35752428 e-mail: mail@iaaconstruction.com	
STRUCTURE CONSULTANTS.  <b>CIVIL AND URBAN ENGINEERS.</b> 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: cue@vol.net.pk	
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DESIGNED:	
CHECKED BY:	DRG:NO.
SCALE:	DATE:08-05-2021 S-01



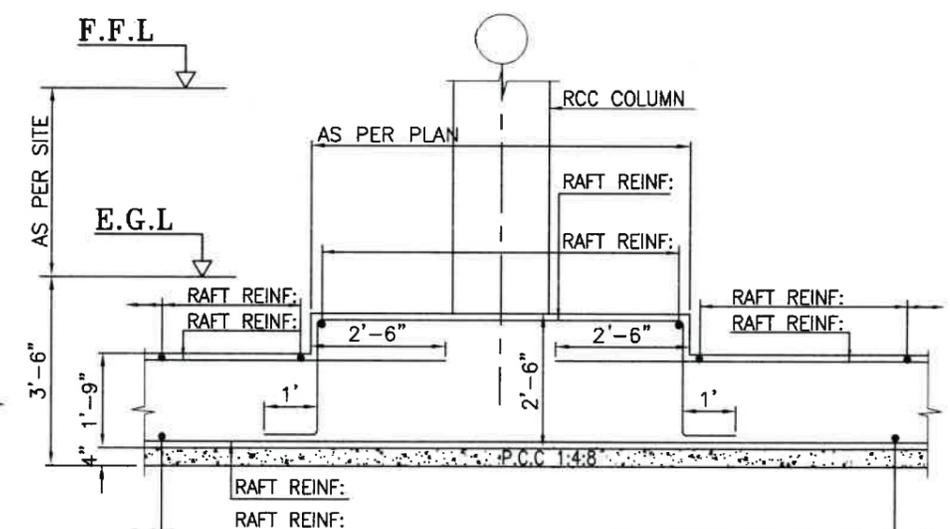




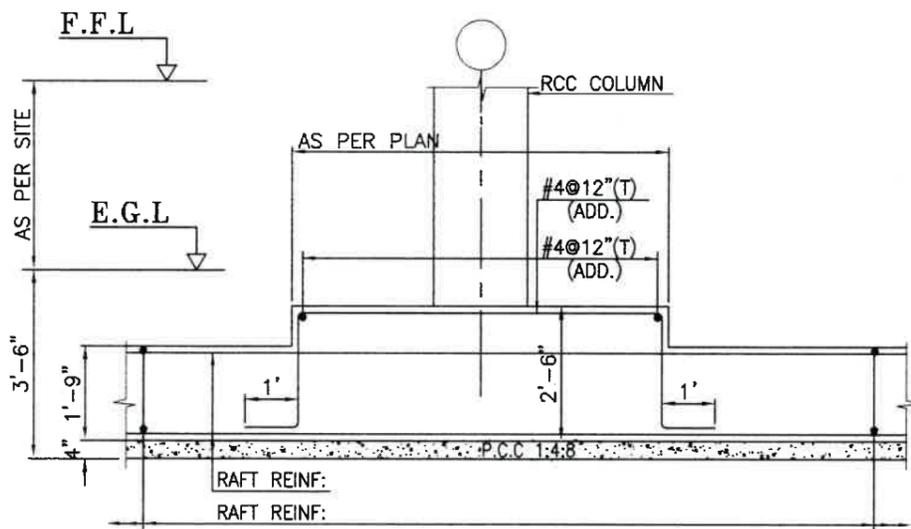
TYP. SECTION 1A-1A  
(FOR 27" THICKNESS)



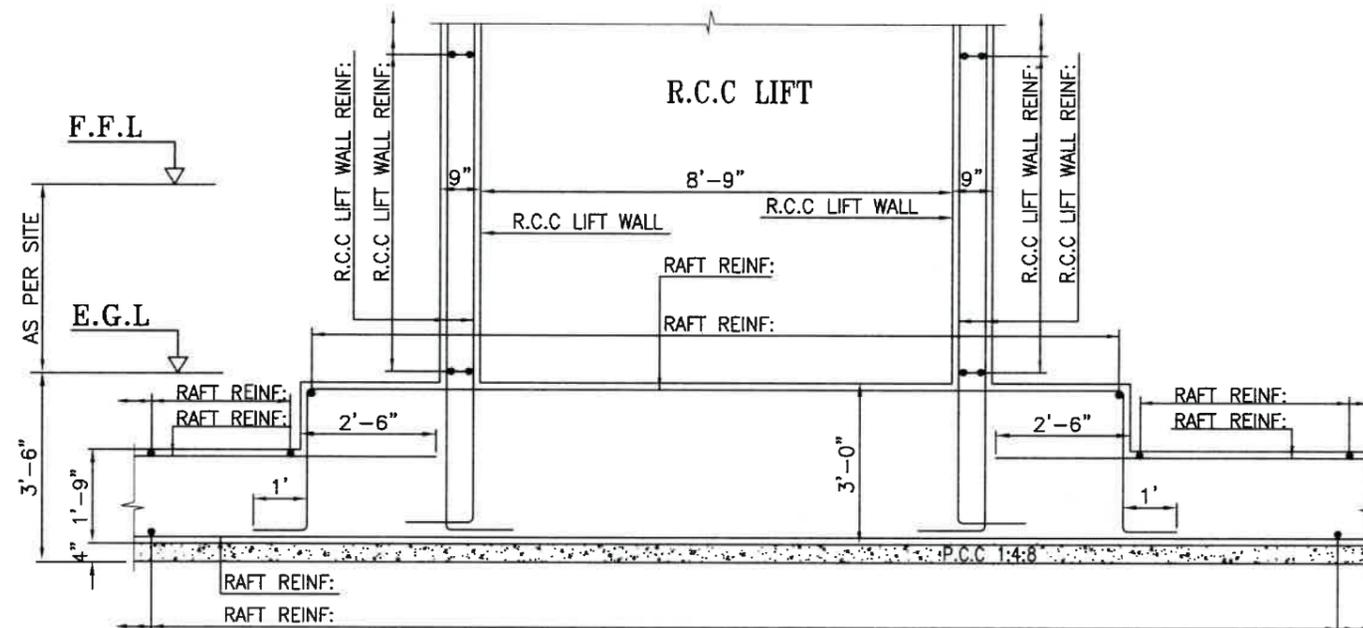
TYP. SECTION 1-1  
(FOR 27" THICKNESS)



SECTION 2-2  
(FOR 30" THICKNESS)



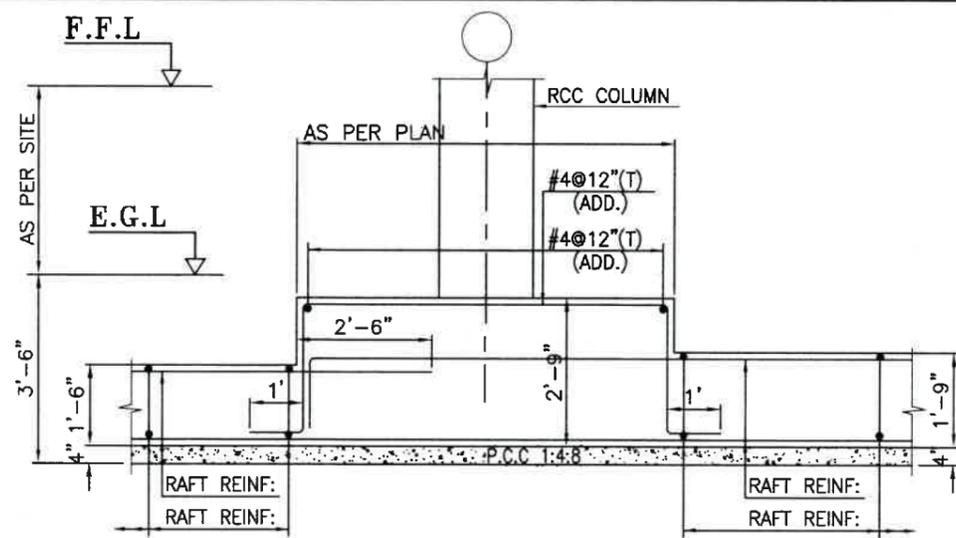
SECTION 2A-2A  
(FOR 30" THICKNESS)



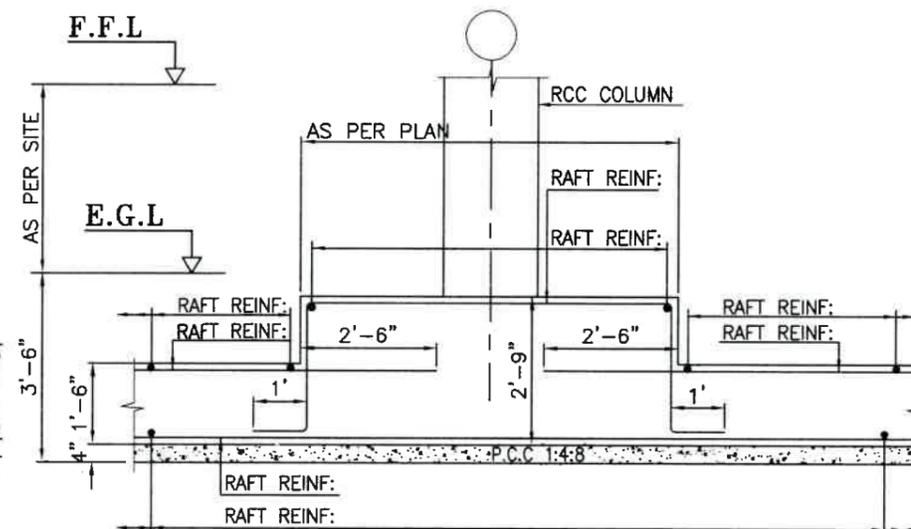
SECTION 3-3

TENDER DRAWING NOT  
FOR CONSTRUCTION

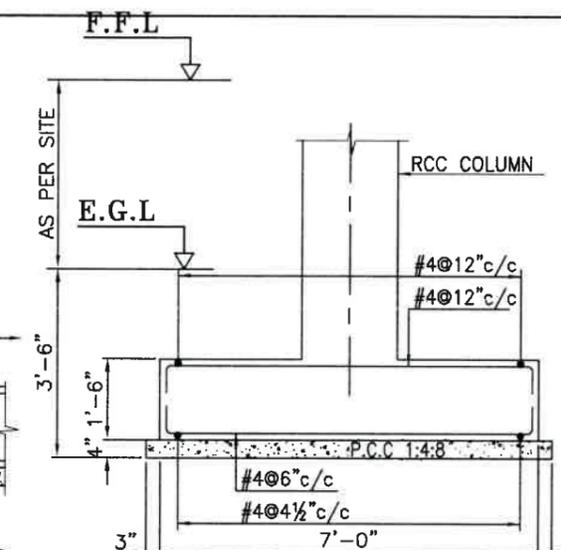
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PROJECT PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.	
TITLE FOUNDATION,S SECTIONS (SEC. 1-1 TO 3-3)	
CONSULTANTS  IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD) ARCHITECTS - ENGINEERS - PLANNERS 295 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35870259 -Fax: 35732428 e-mail: mail@iaaconsultancy.com	
STRUCTURE CONSULTANTS  CIVIL AND URBAN ENGINEERS. 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: cue@vol.net.pk	
COMPUTERISED	JOB: NO.
DESIGNED:	
CHECKED BY:	DRG: NO.
SCALE:	DATE: 08-05-2021 S-04



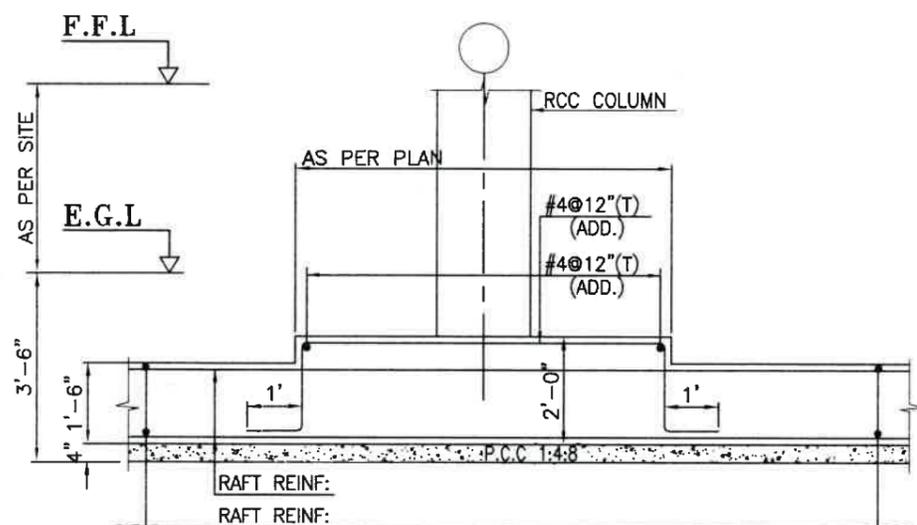
TYP. SECTION 4-4  
(FOR 33" THICKNESS)



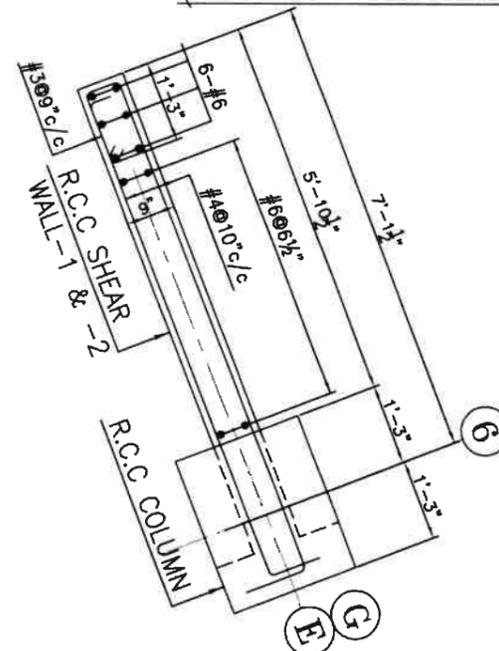
TYP. SECTION 4A-4A  
(FOR 33" THICKNESS)



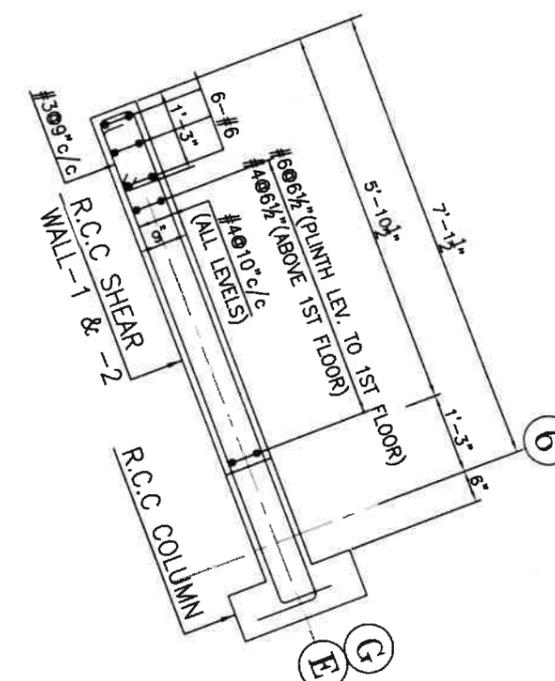
FOOTING SECTION 5-5



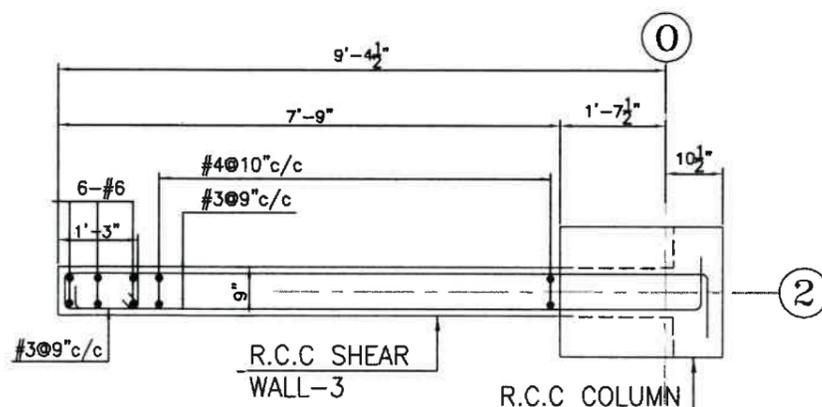
TYP. SECTION 6-6  
(FOR 24" THICKNESS)



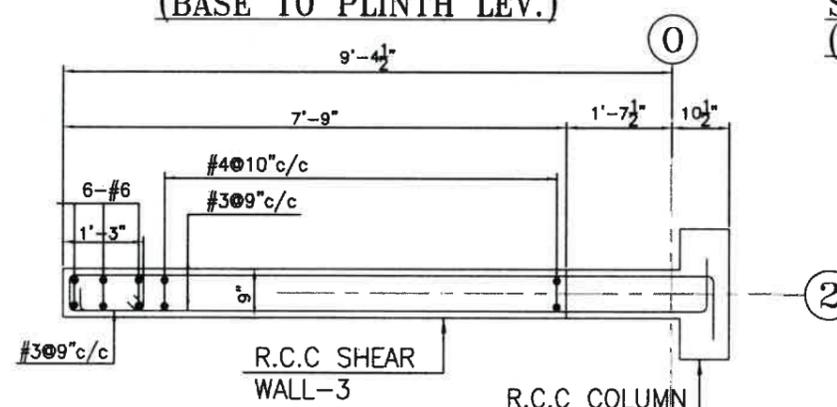
SHEAR WALL -1 & -2 DETAIL  
(BASE TO PLINTH LEV.)



SHEAR WALL -1 & -2 DETAIL  
(ABOVE PLINTH LEV.)



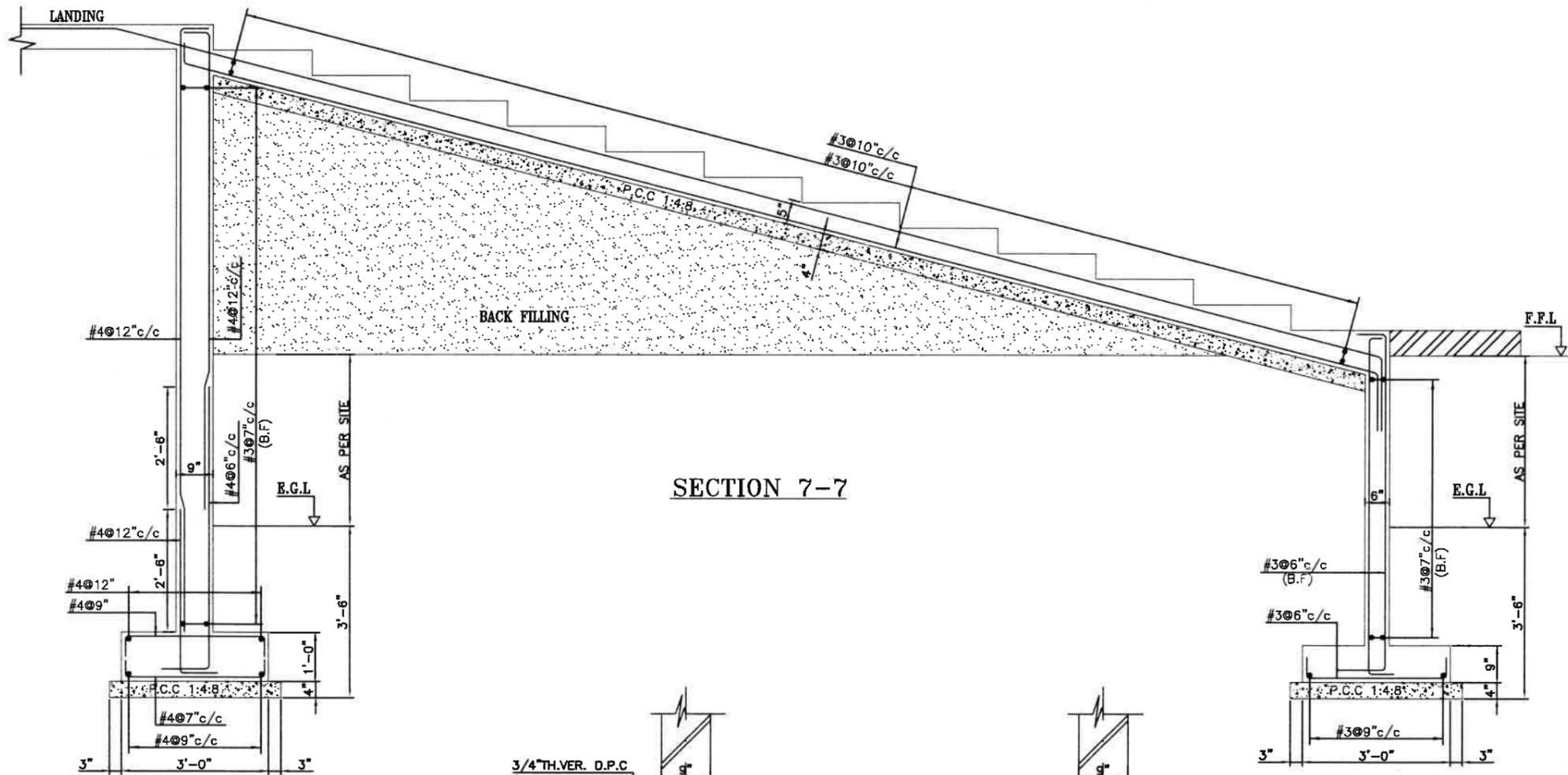
SHEAR WALL -3 DETAIL  
(BASE TO PLINTH LEV.)



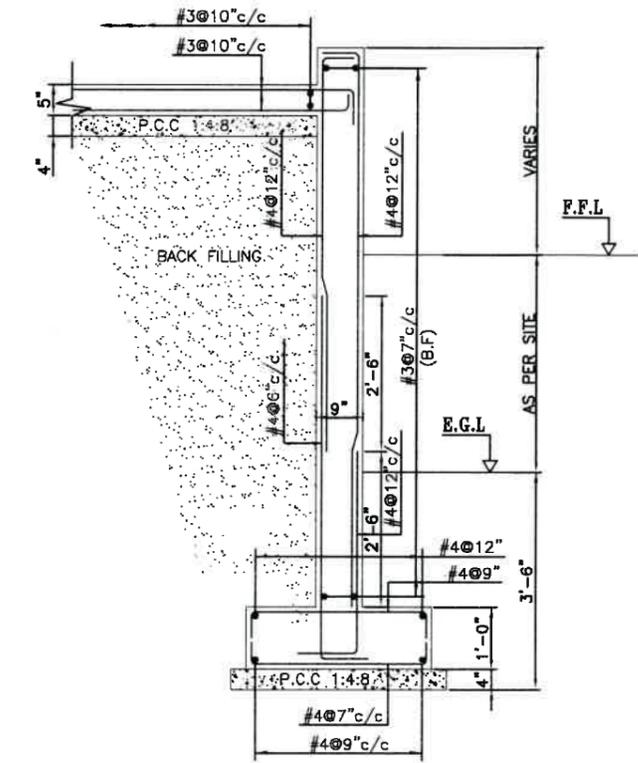
SHEAR WALL -3 DETAIL  
(ABOVE PLINTH LEV.)

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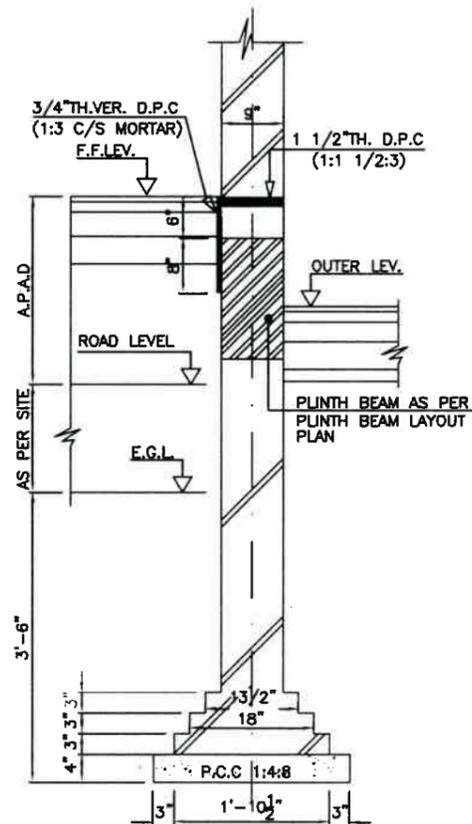
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN	
PROJECT PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.	
TITLE FOUNDATION, S SECTIONS (SEC. 4-4 TO 6-6) & SHEAR WALLS	
CONSULTANTS  IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD) ARCHITECTS - ENGINEERS - PLANNERS 208 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35870259 - Fax: 35752428 e-mail: <a href="mailto:imtiaz@imtiaz.com">imtiaz@imtiaz.com</a>	
STRUCTURE CONSULTANTS  CIVIL AND URBAN ENGINEERS. 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: <a href="mailto:cue@rol.net.pk">cue@rol.net.pk</a>	
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SCALE:	DATE: 08-05-2021 S-05



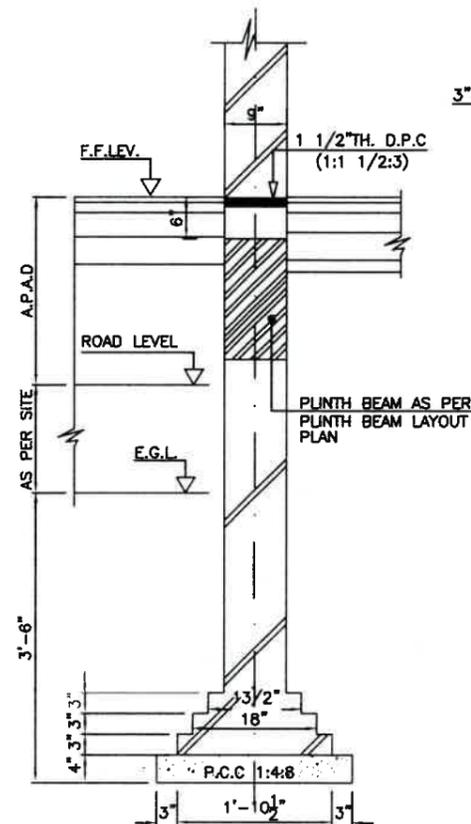
SECTION 7-7



SECTION 8-8



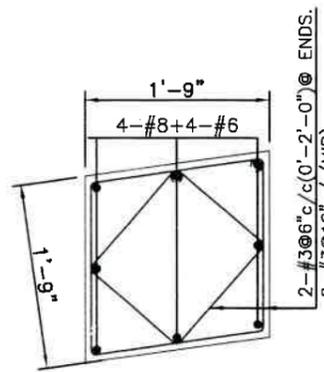
TYP. BRICK WALL SECTION (EXTERNAL)



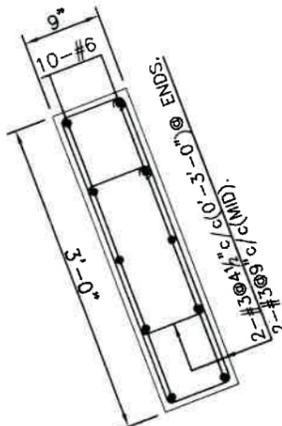
TYP. BRICK WALL SECTION (INTERNAL)

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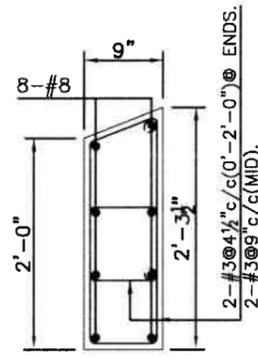
CLINET PAKISTAN INSTITUTE OF FASHION AND DESIGN	
PROJECT PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.	
TITLE FOUNDATION, S SECTIONS (SEC. 7-7 & 8-8) & TYP. BRICK SEC.	
CONSULTANTS IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD) ARCHITECTS - ENGINEERS - PLANNERS 298 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35870259 - Fax: 35732428 e-mail: mail@iaaconsultancy.com	
STRUCTURE CONSULTANTS CIVIL AND URBAN ENGINEERS. 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: cue@vol.net.pk	
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DESIGNED:	DRG. NO.
CHECKED BY:	DATE: 08-05-2021
SCALE:	S-06



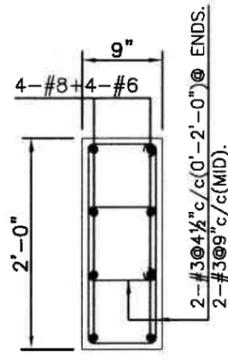
**COLUMN C-1**  
(ALL LEVELS)



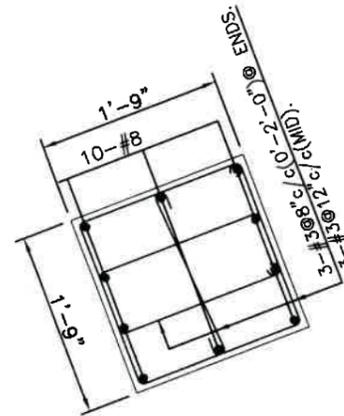
**COLUMN C-2**  
(ALL LEVELS)



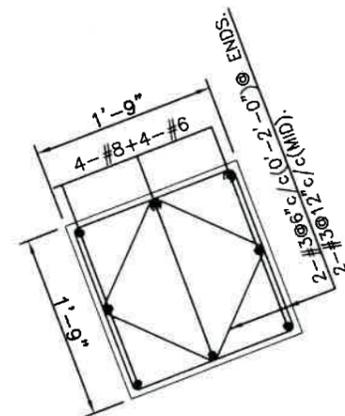
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(ALL LEVELS)



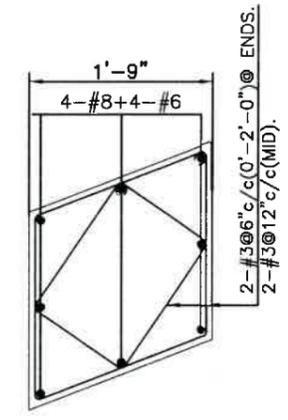
**COLUMN C-4**  
(ALL LEVELS)



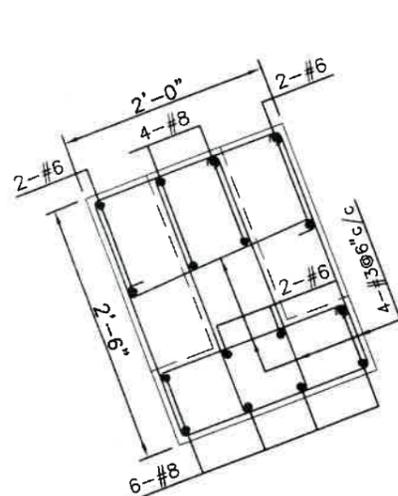
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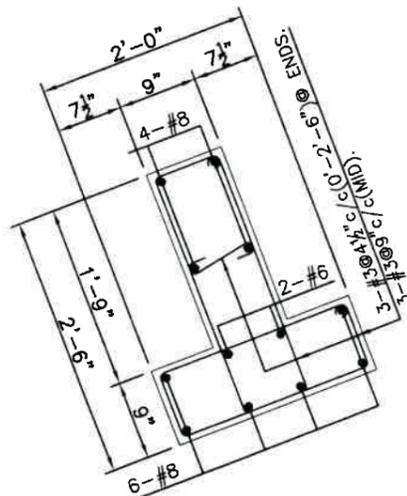
**COLUMN C-6**  
(ALL LEVELS)



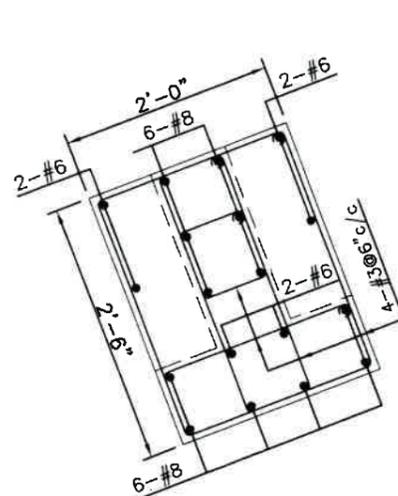
**COLUMN C-7**  
(ALL LEVELS)



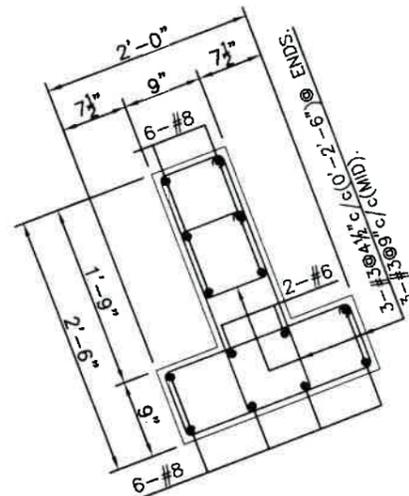
**COLUMN C-8**  
(BASE TO PLINTH LEV.)



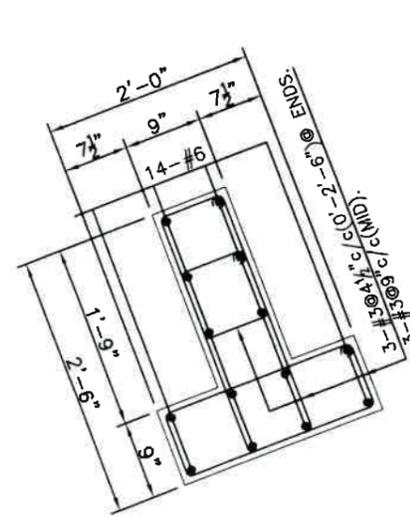
**COLUMN C-8**  
(ABOVE PLINTH LEV.)



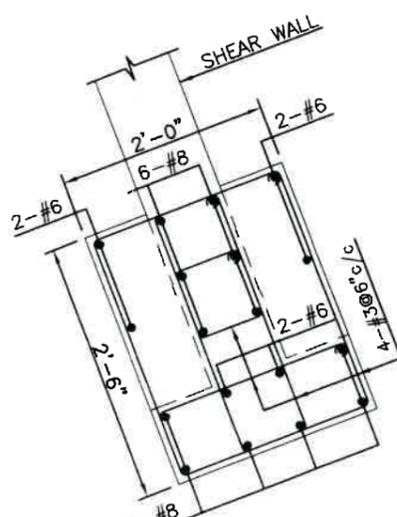
**COLUMN C-9&C-15**  
(BASE TO PLINTH LEV.)



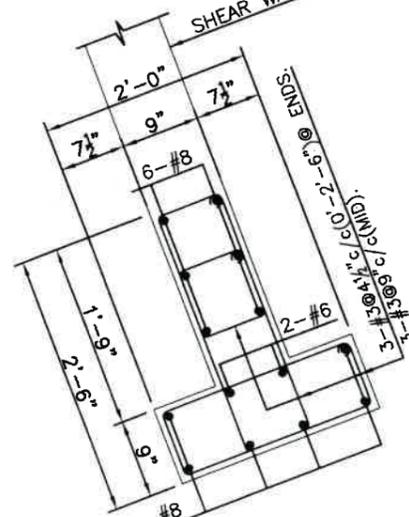
**COLUMN C-9&C-15**  
(PLINTH LEV. TO F.F.)



**COLUMN C-9&C-15**  
(ABOVE F.F.)



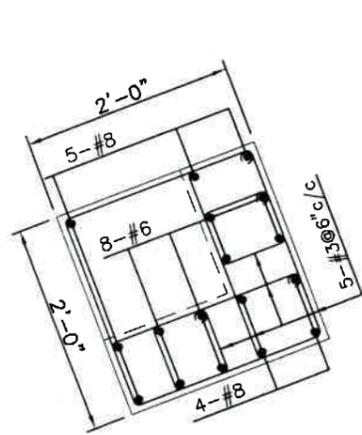
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(BASE TO PLINTH LEV.)



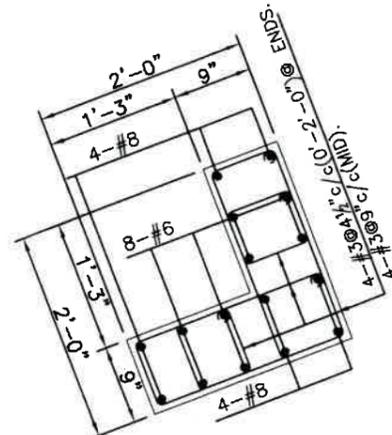
**COLUMN C-10**  
(ABOVE PLINTH LEV.)

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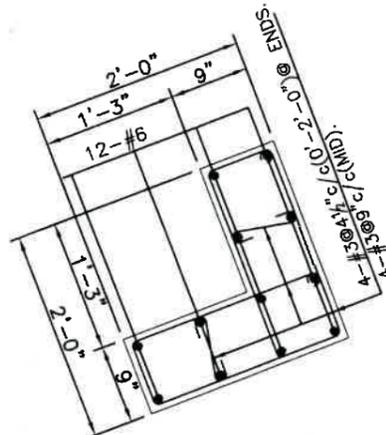
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PROJECT <b>PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.</b>	
TITLE <b>REINF: DETAIL OF COLUMNS (C-1 TO C-10)</b>	
CONSULTANTS  <b>IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)</b> ARCHITECTS - ENGINEERS - PLANNERS 206 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35870259 - Fax: 35752428 e-mail: mail@iaaonline.com	
STRUCTURE CONSULTANTS  <b>CIVIL AND URBAN ENGINEERS.</b> 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: cue@vol.net.pk	
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DESIGNED:	
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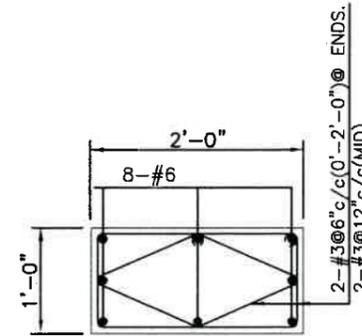
**COLUMN C-11**  
(BASE TO PLINTH LEV.)



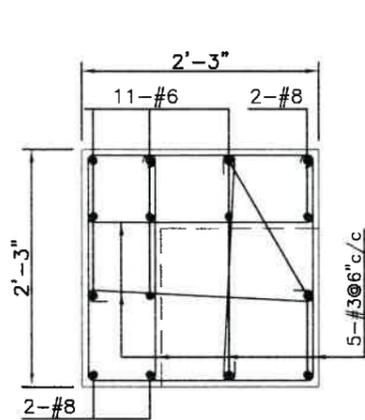
**COLUMN C-11**  
(PLINTH LEV. TO S.F)



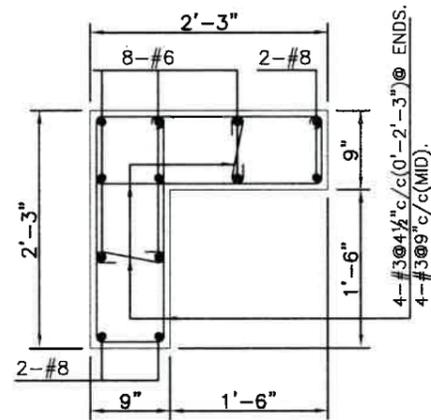
**COLUMN C-11**  
(ABOVE S.F)



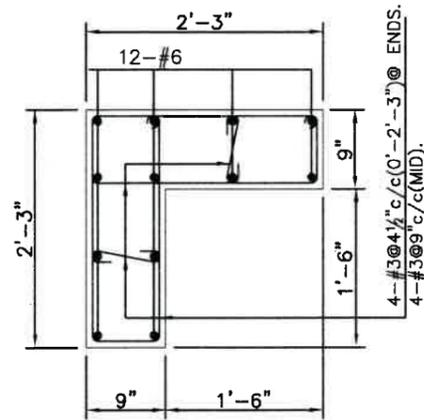
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(ALL LEVELS)



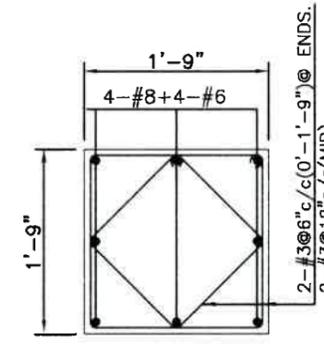
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(BASE TO PLINTH LEV.)



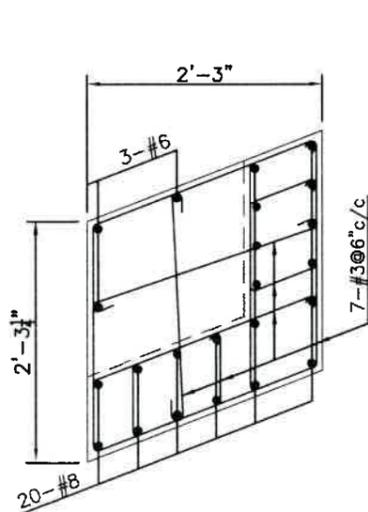
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(PLINTH LEV. TO F.F)



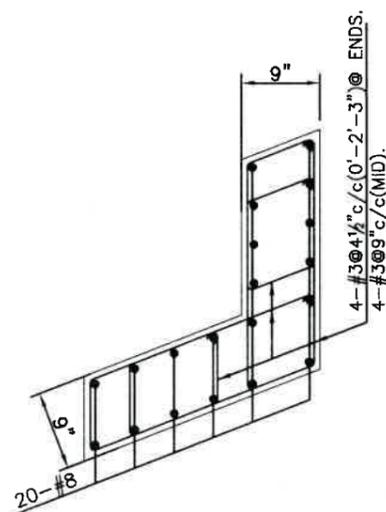
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(ABOVE F.F)



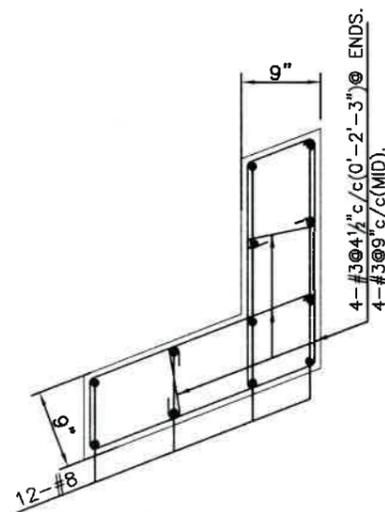
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(ALL LEVELS)



**COLUMN C-16**  
(BASE TO PLINTH LEV.)



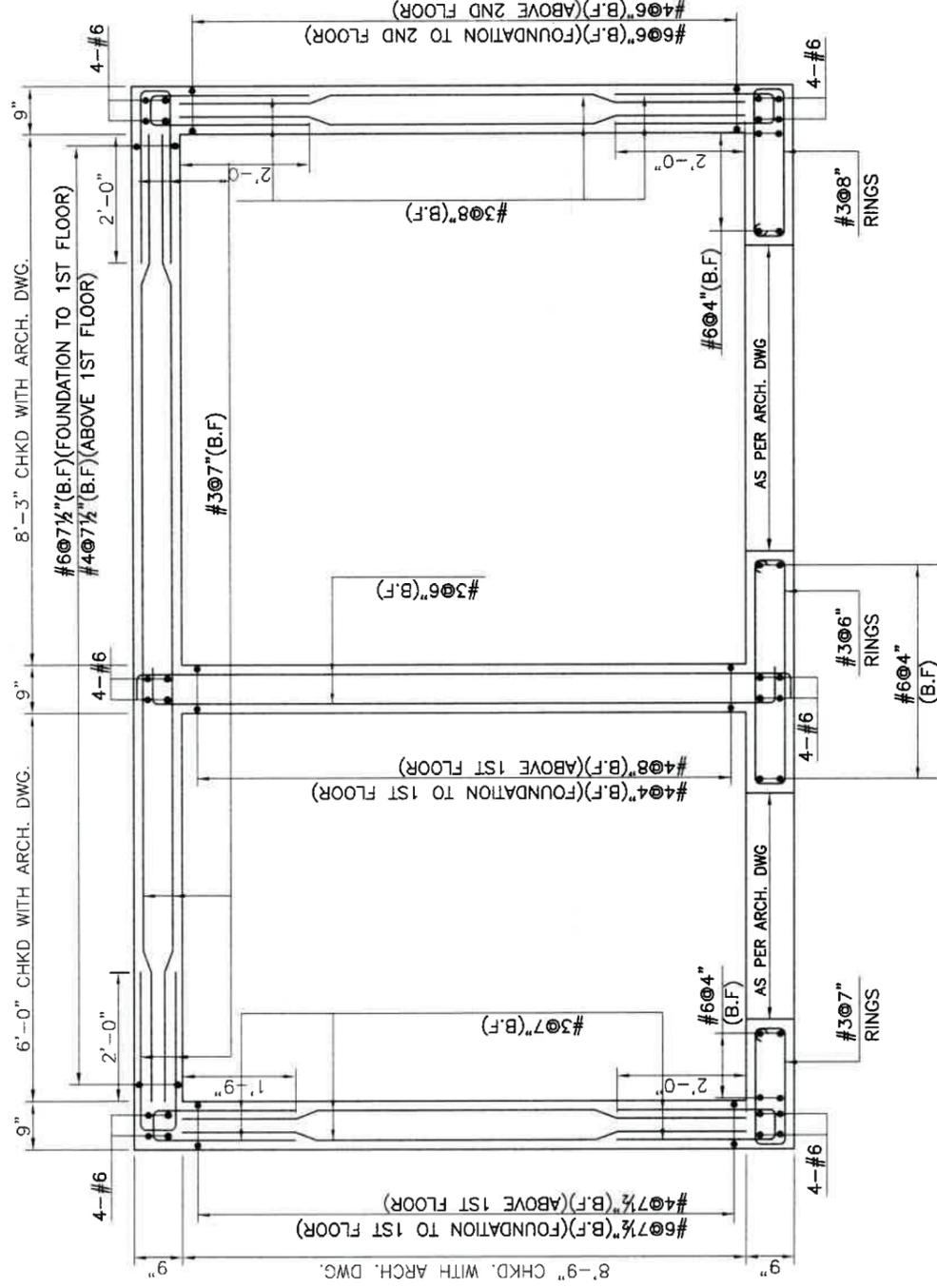
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(PLINTH LEV. TO 3RD FLOOR)



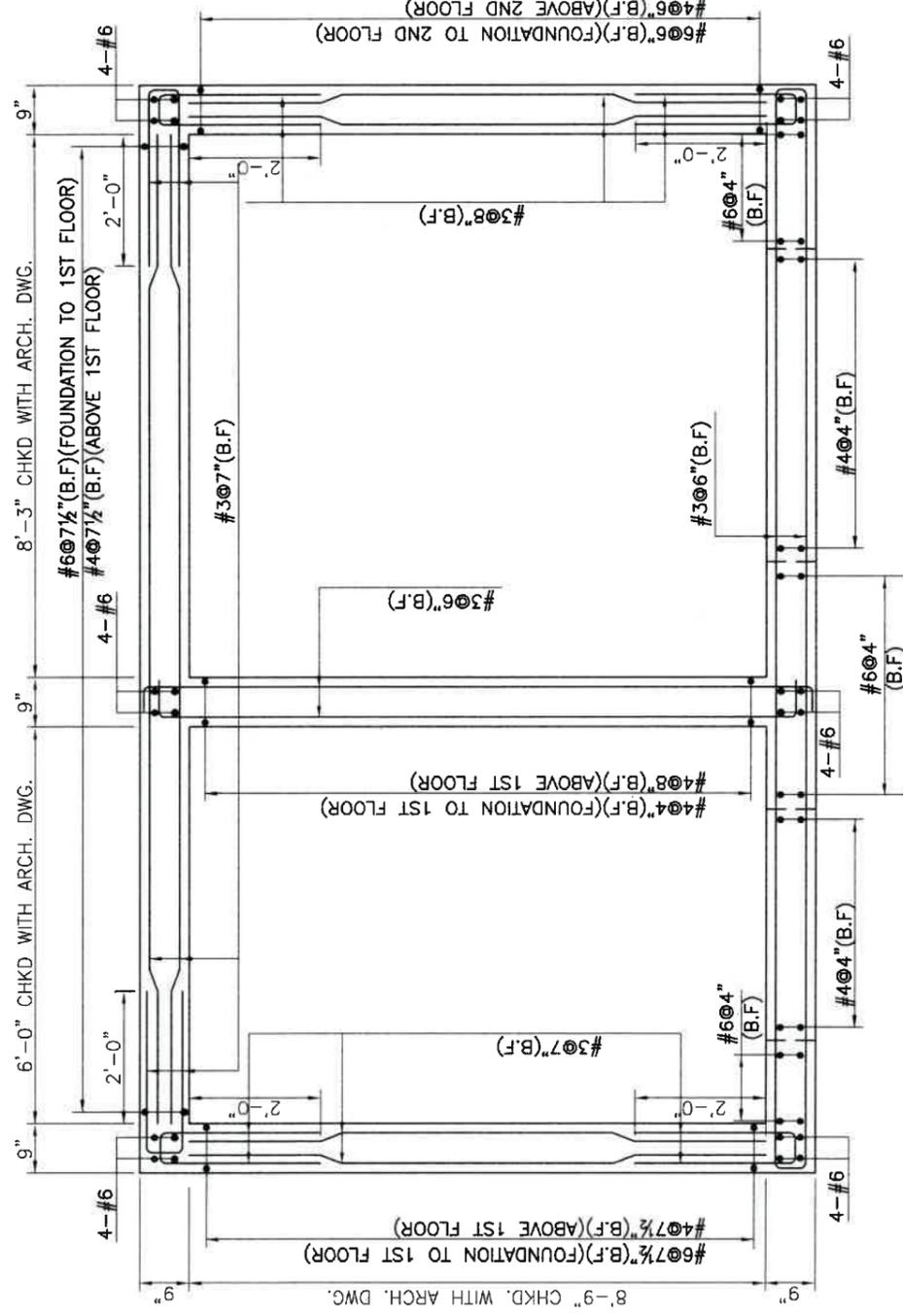
**COLUMN C-16**  
(ABOVE 3RD FLOOR)

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FOR CONSTRUCTION

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PROJECT PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.	
TITLE REINF: DETAIL OF COLUMNS (C-11 TO C-16)	
CONSULTANTS.  IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD) ARCHITECTS - ENGINEERS - PLANNERS 206 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35674825 - 35670259 - Fac: 35752428 e-mail: mail@iaaonline.com	
STRUCTURE CONSULTANTS.  CIVIL AND URBAN ENGINEERS. 475 G, JOHAR TOWN LAHORE TEL: 35240756 E-mail: cue@wof.net.pk	
COMPUTERISED	JOB: NO.
DESIGNED:	
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SCALE:	DATE: 08-05-2021 S-08



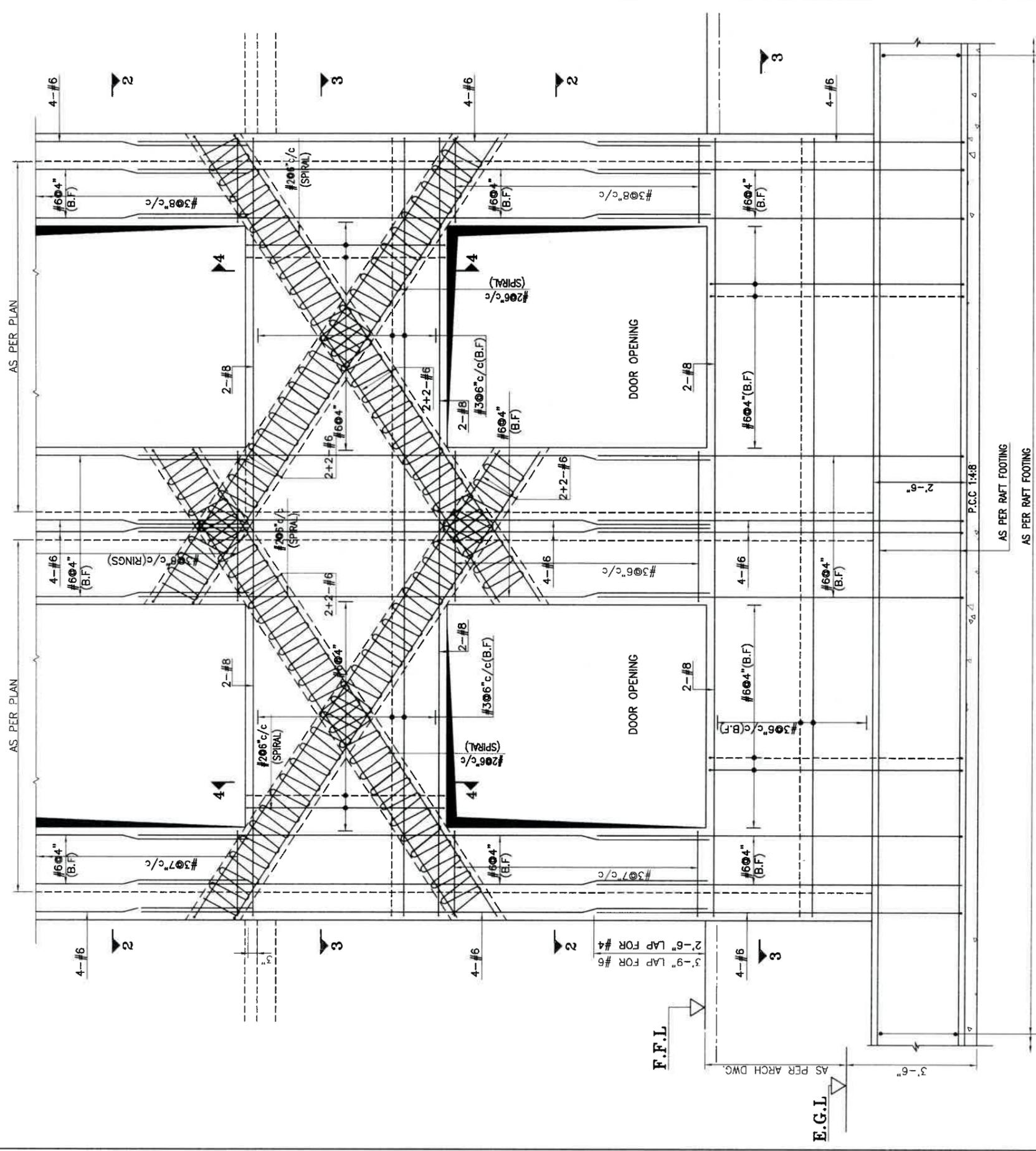
SECTIONAL PLAN AT 2-2



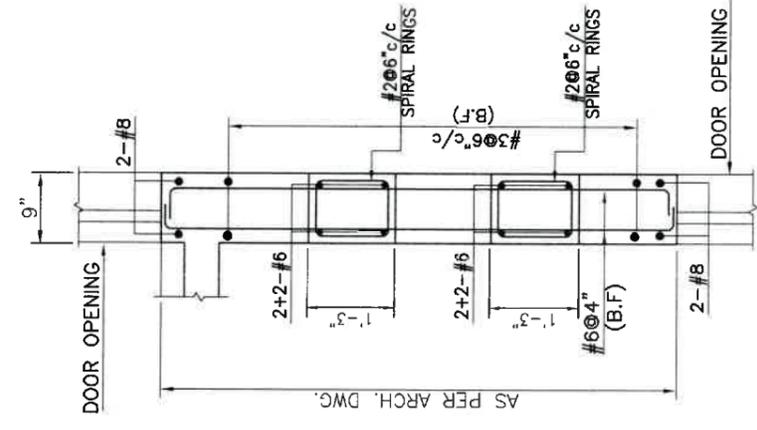
SECTIONAL PLAN AT 3-3

CUNET	PAKISTAN INSTITUTE OF FASHION AND DESIGN
PROJECT	PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.
TITLE	REINF. DETAIL OF LIFT PLAN
CONSULTANTS.	IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD) ARCHITECTS - ENGINEERS - PLANNERS 298 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35870298 Fax: 35752428 www.iaa.com.pk STRUCTURE CONSULTANTS.
COMPUTERISED	CIVIL AND URBAN ENGINEERS. 475 G, JOHAR TOWN LAHORE E-mail: iaa@woi.net.pk
DESIGNED BY:	
CHECKED BY:	
SCALE:	DATE: 08-05-2021
JOB.NO.	
DRG.NO.	S-09

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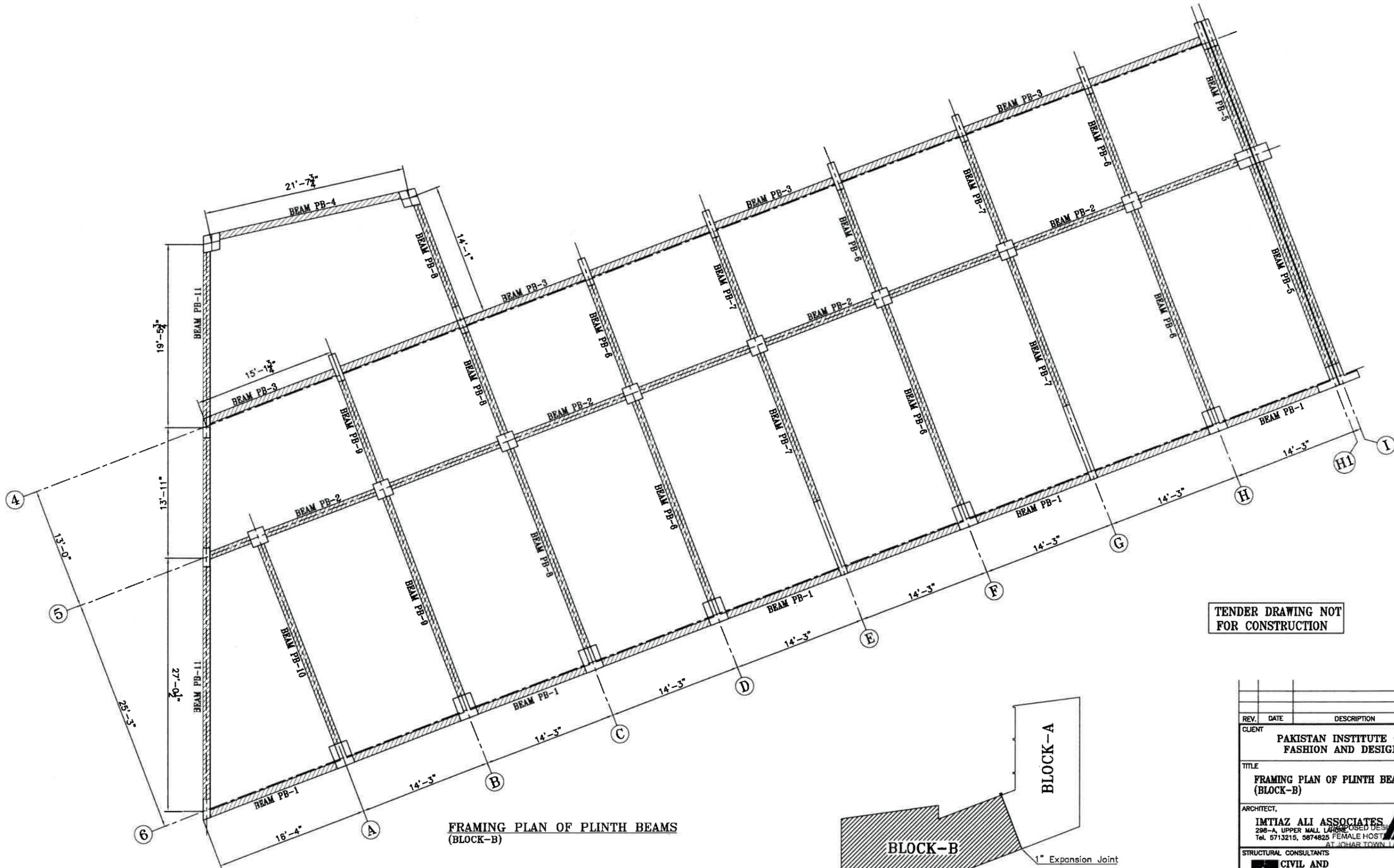
SECTIONAL ELEVATION FROM DOOR SIDE



SECTION AT 4-4

CLIENT <b>PAKISTAN INSTITUTE OF FASHION AND DESIGN</b>	PROJECT <b>PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.</b>	CONSULTANTS: <b>IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)</b> ARCHITECTS - ENGINEERS - PLANNERS 288 - A - UPPER MALL, LAHORE. Tel: 35713215 - 35874825 - 35970299 - Fax: 35752428 e-mail: mail@imtalibny.com	STRUCTURE CONSULTANTS: <b>CIVIL AND URBAN ENGINEERS.</b> 475 G, JOHAR TOWN LAHORE E-mail:icue@woi.net.pk	COMPUTERISED	JOB NO.
TITLE <b>REINF. DETAIL OF LIFT ELEVATION &amp; SECTION</b>				DESIGNED BY:	DRG. NO.
			SCALE:	DATE: 08-05-2021	S-10

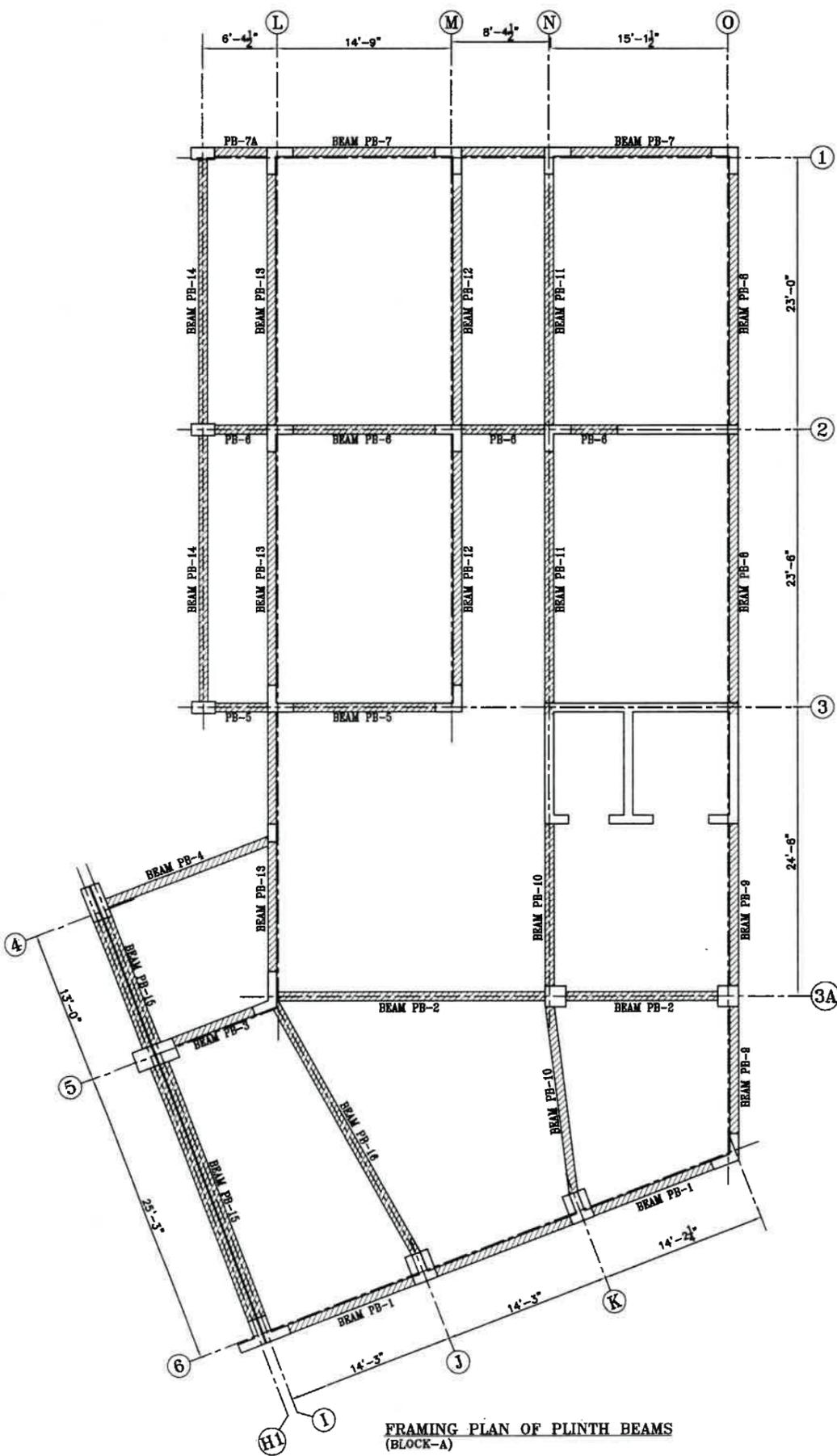
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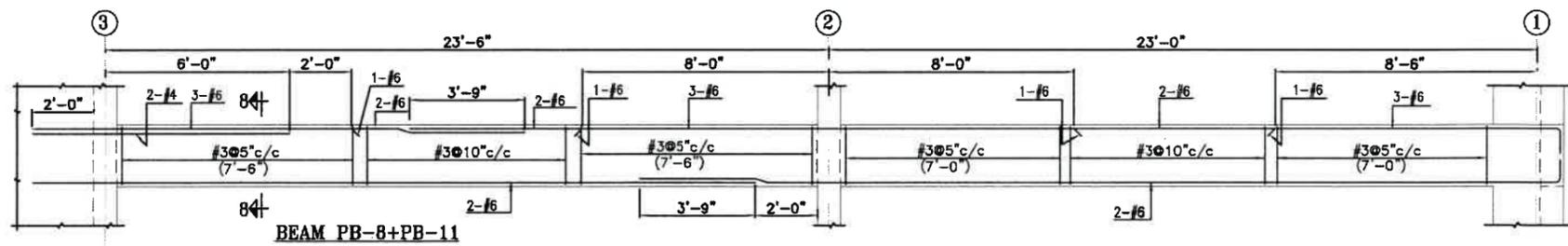
TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT		
PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE		
FRAMING PLAN OF PLINTH BEAM (BLOCK-B)		
ARCHITECT,		
IMTIAZ ALI ASSOCIATES		
298-A, UPPER MALL, LAHORE		
Tel: 5713215, 5874825 FEMALE HOST		
AT JOHAR TOWN, LAHORE		
STRUCTURAL CONSULTANTS		
CIVIL AND URBAN ENGINEERS.		
475-G, JOHAR TOWN LAHORE		
TEL: 35240756, 35240757		
E-mail: cue249a@yahoo.com		
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APPROVED:	DRG. NO.	
SCALE:	DATE: 29-04-2021	S-11

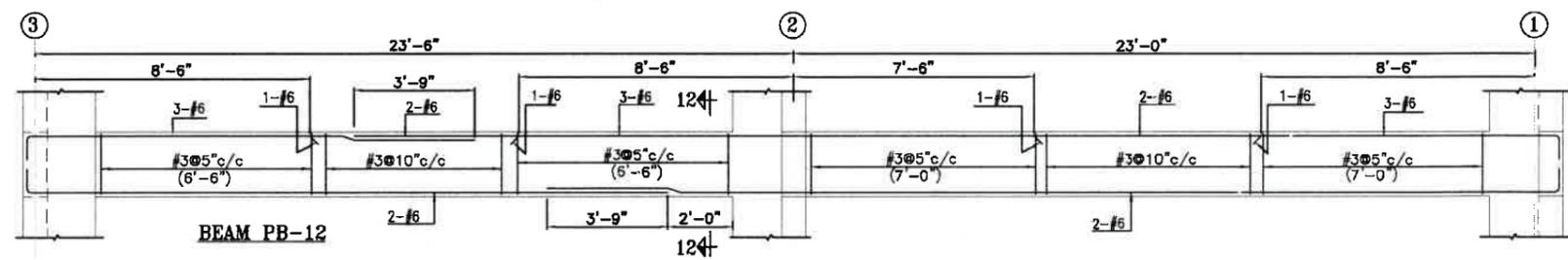




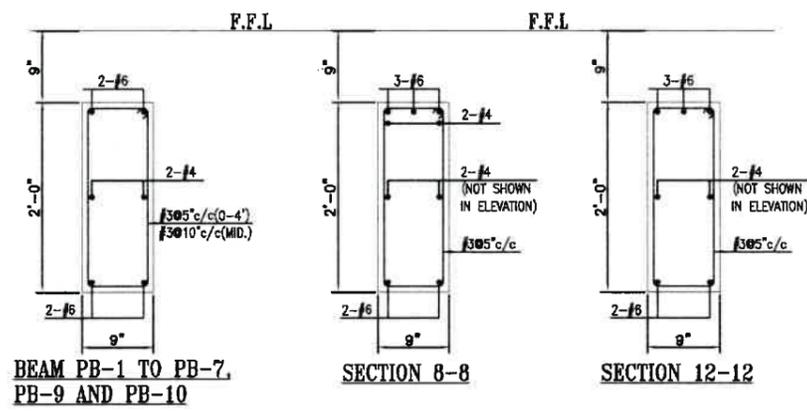
FRAMING PLAN OF PLINTH BEAMS  
(BLOCK-A)



BEAM PB-8+PB-11



BEAM PB-12

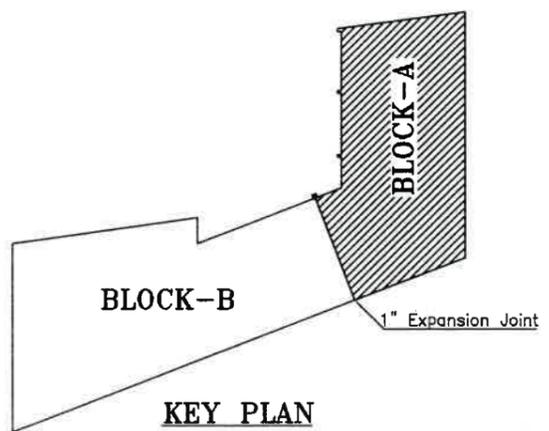


BEAM PB-1 TO PB-7,  
PB-9 AND PB-10

SECTION 8-8

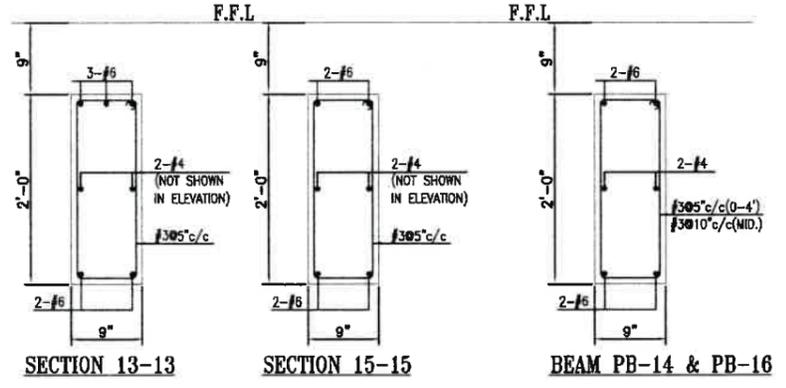
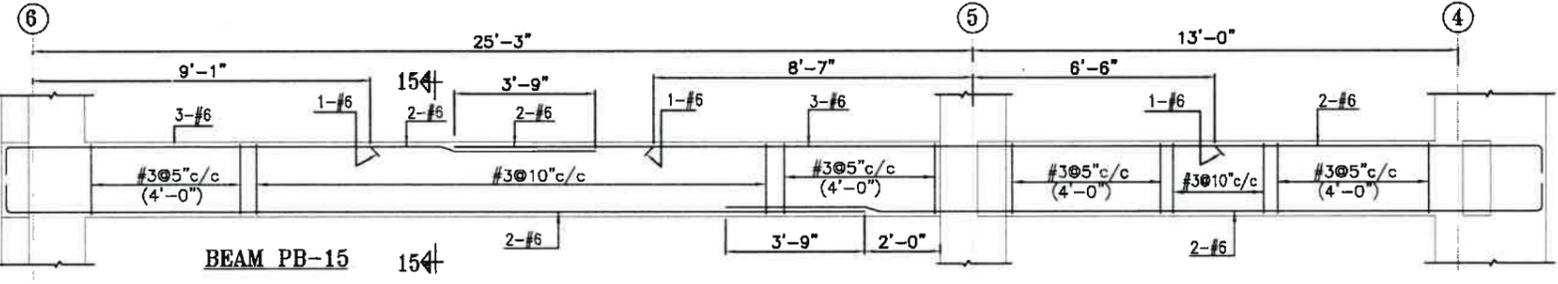
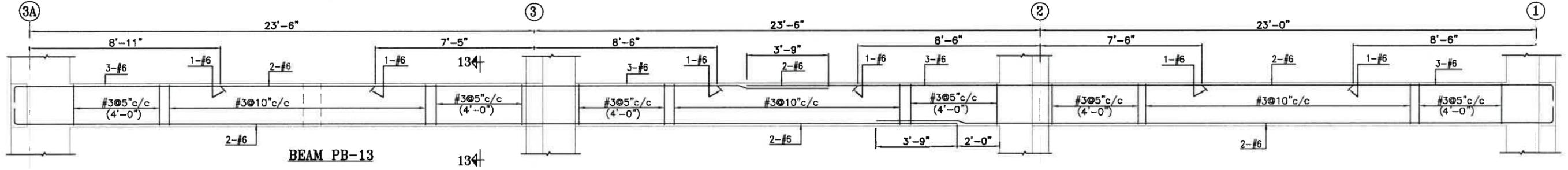
SECTION 12-12

TENDER DRAWING NOT  
FOR CONSTRUCTION



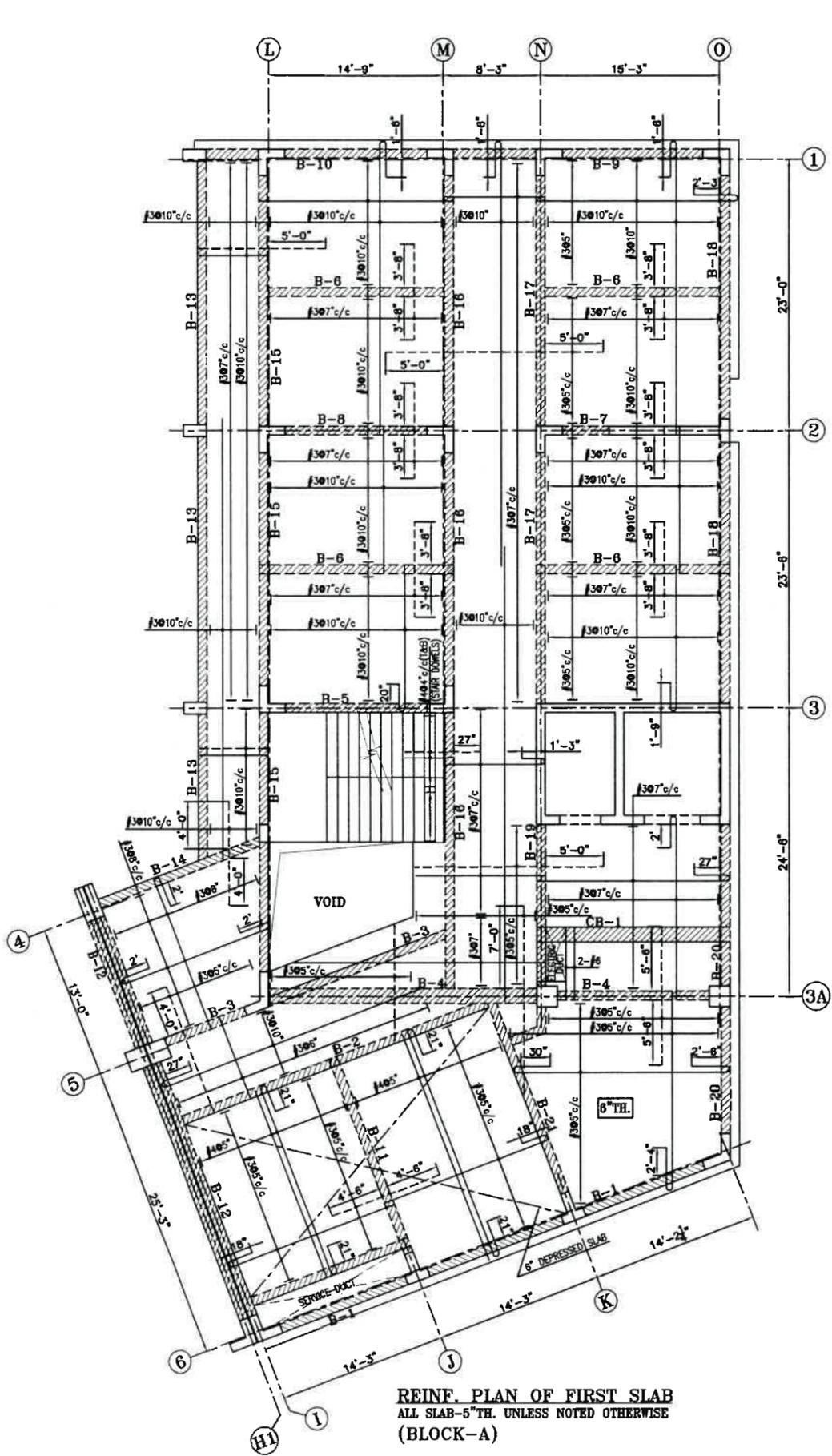
KEY PLAN

REV.	DATE	DESCRIPTION
CLIENT <b>PAKISTAN INSTITUTE OF FASHION AND DESIGN</b>		
TITLE <b>FRAMING PLAN AND REINFORCEMENT DETAIL OF PLINTH BEAMS (PB-1 TO PB-12) (BLOCK-A)</b>		
ARCHITECT, <b>IMTIAZ ALI ASSOCIATES</b> 298-A, UPPER MALL, LAHORE Tel. 5713215, 5874825 FEMALE HOST AT JOHAR TOWN LAHORE		
STRUCTURAL CONSULTANTS <b>CIVIL AND URBAN ENGINEERS.</b> 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249a@yahoo.com		
COMPUTERISED		JOB NO.
DESIGNED BY: ENGR. NADEEM MAHMOOD		
APPROVED:		DRG. NO.
SCALE:	DATE: 29-04-2021	S-13

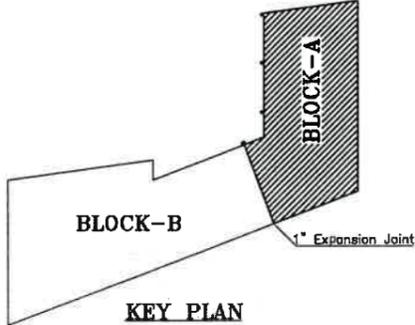
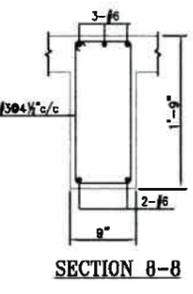
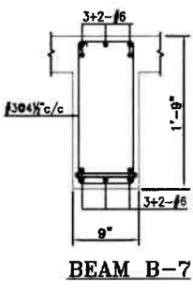
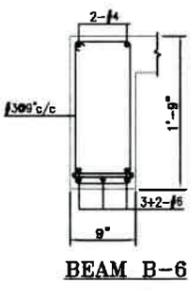
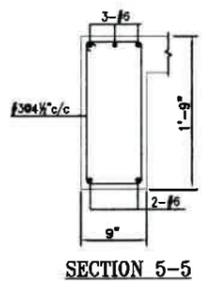
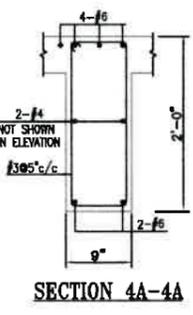
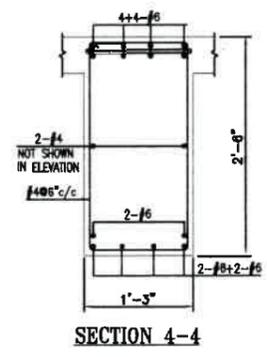
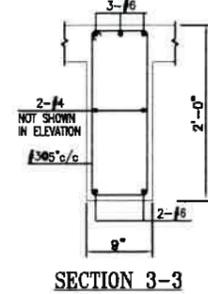
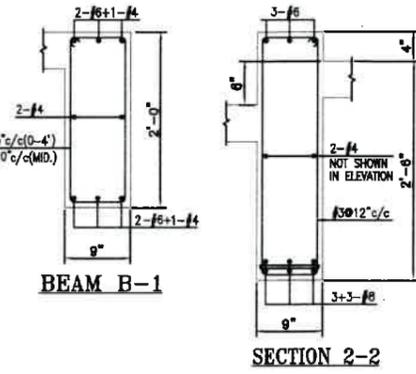
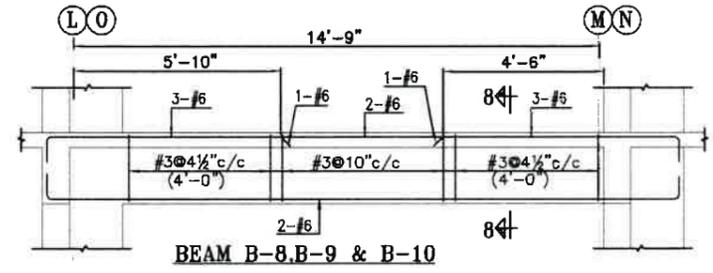
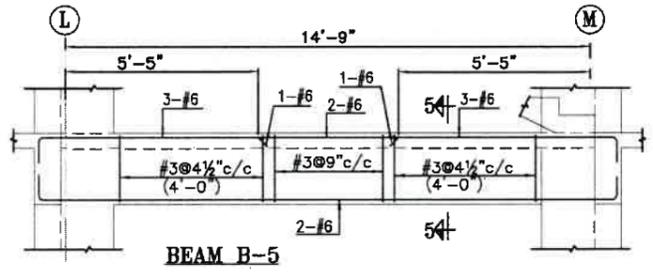
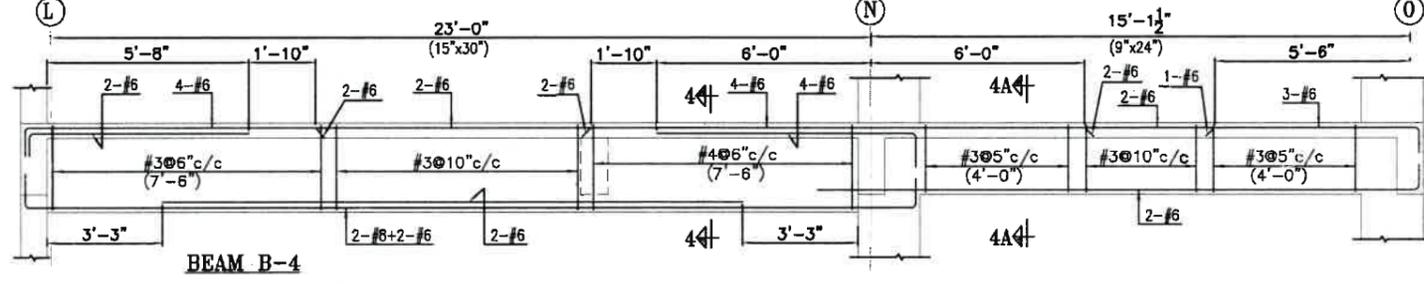
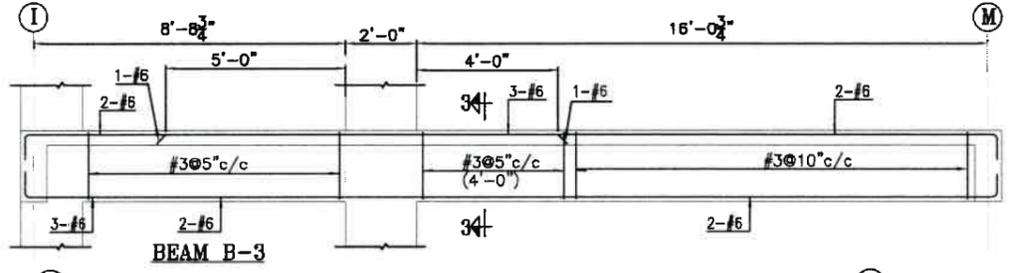
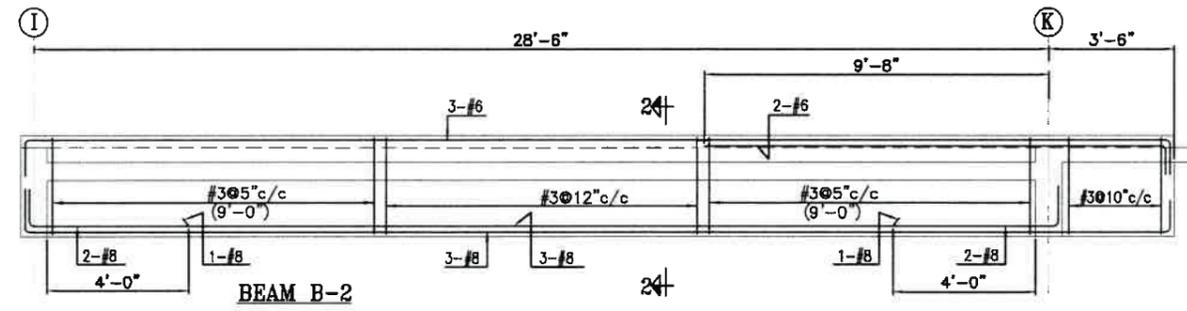


TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE REINF. DETAIL OF PLINTH BEAMS (PB-13 TO PB-16) (BLOCK-A)		
ARCHITECT, IMTIAZ ALI ASSOCIATES 288-A, UPPER MALL, LAHORE Tel. 5713215, 5874825 FEMALE HOST AT JOHAR TOWN, LAHORE		
STRUCTURAL CONSULTANTS CIVIL AND URBAN ENGINEERS. 475-G, JOHAR TOWN LAHORE TEL: 35240758, 35240757 E-mail: cue249@yahoo.com		
COMPUTERISED		JOB-NO.
DESIGNED: ENGR. NADEEM MAHMOOD		
APPROVED:		DRG-NO.
SCALE:	DATE: 29-04-2021	S-14



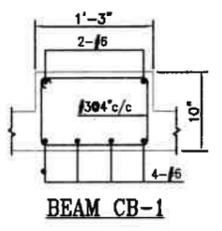
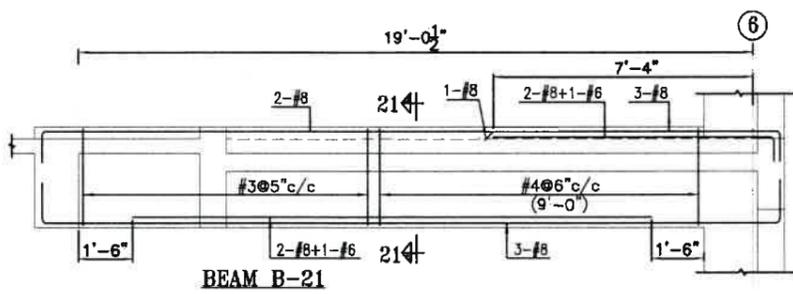
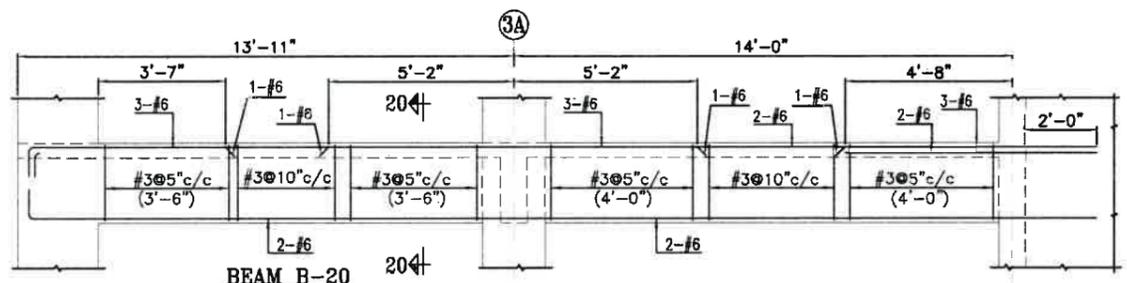
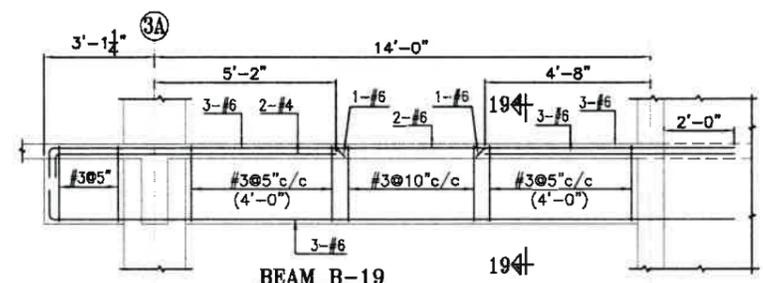
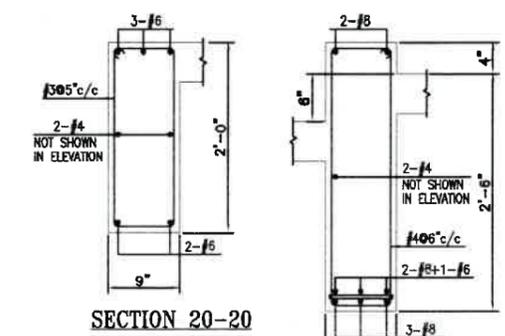
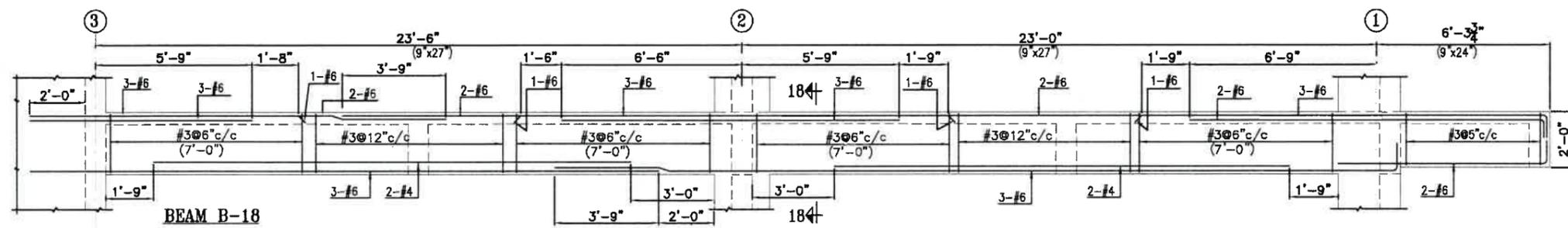
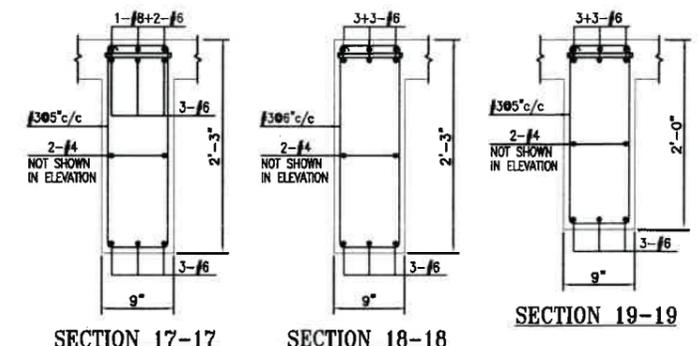
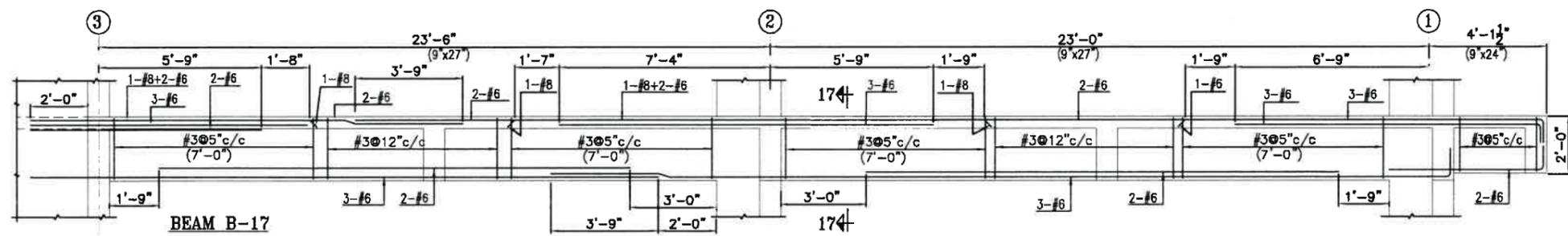
**REINF. PLAN OF FIRST SLAB**  
 ALL SLAB-5" TH. UNLESS NOTED OTHERWISE  
 (BLOCK-A)



**TENDER DRAWING NOT FOR CONSTRUCTION**

REV.	DATE	DESCRIPTION
CLIENT <b>PAKISTAN INSTITUTE OF FASHION AND DESIGN</b>		
TITLE <b>REINF. DETAIL OF FIRST SLAB &amp; BEAMS (B-1 TO B-10) (BLOCK-A)</b>		
ARCHITECT, <b>IMTIAZ ALI ASSOCIATES</b> 238-A, UPPER MALL, LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS <b>CIVIL AND URBAN ENGINEERS.</b> 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249@yahoo.com		
COMPUTERISED	DESIGNED: ENGR. NADEEM MAHMOOD	JOB NO.
APPROVED:	DATE: 29-04-2021	DRG. NO.
SCALE:		S-15

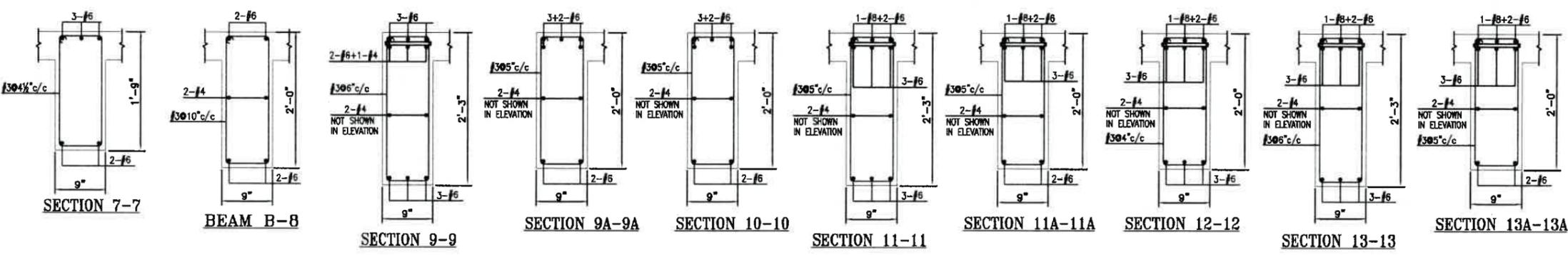
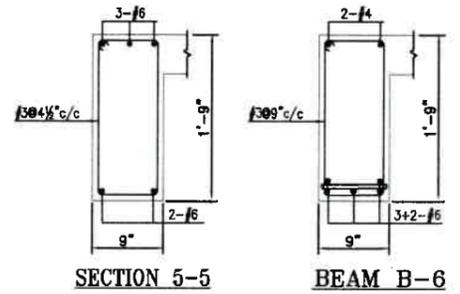
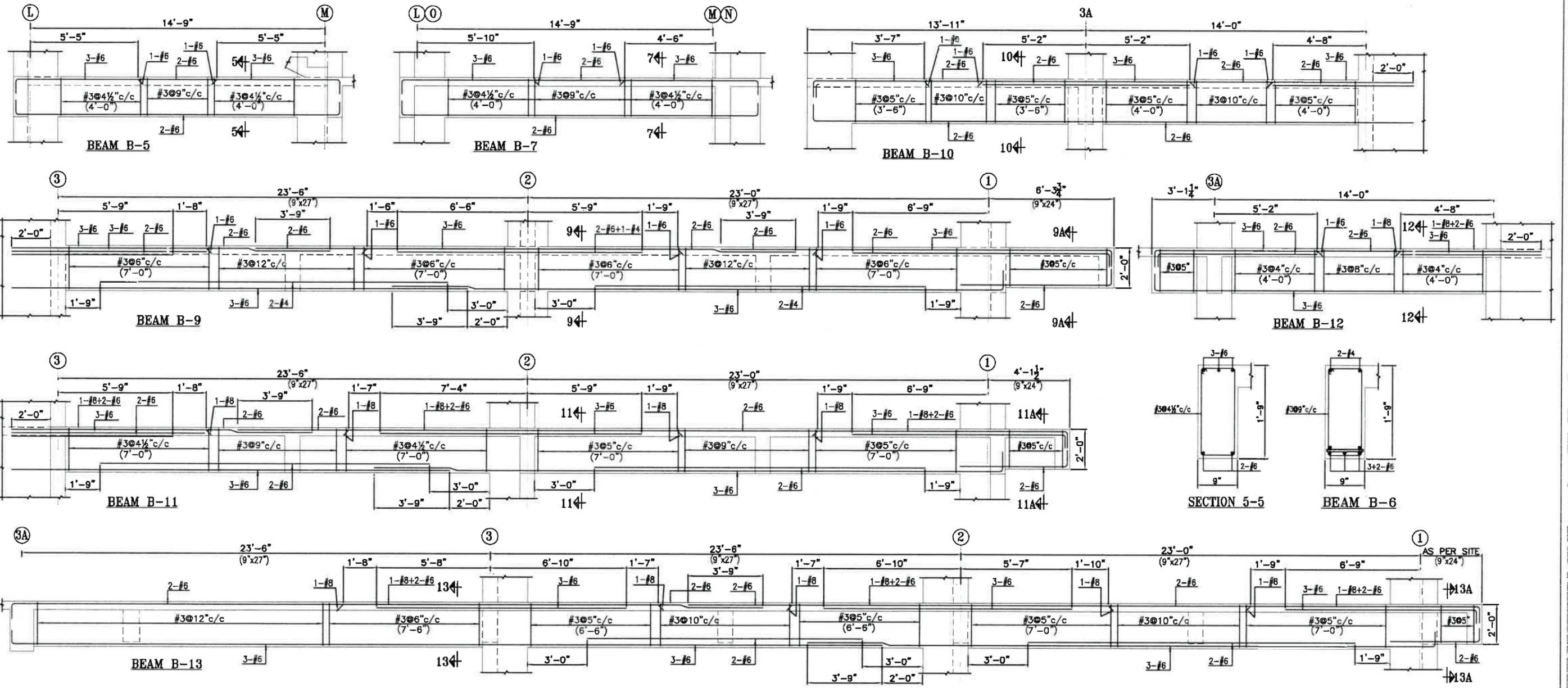




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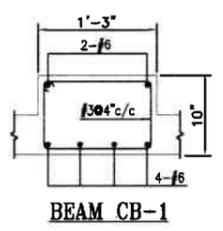
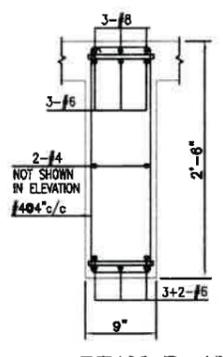
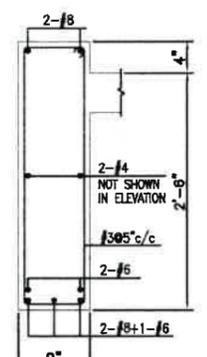
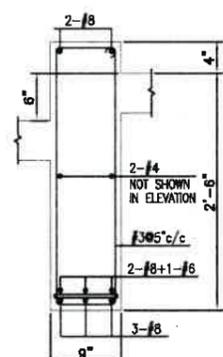
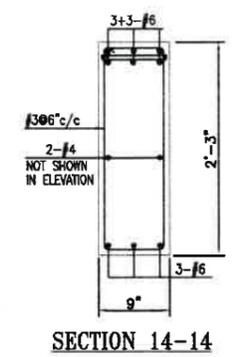
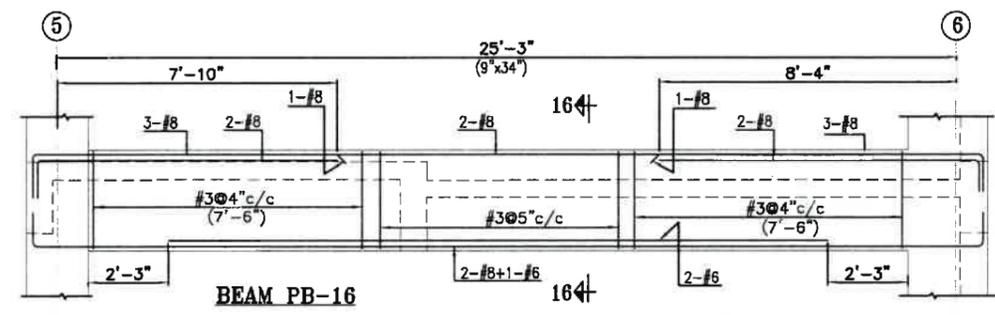
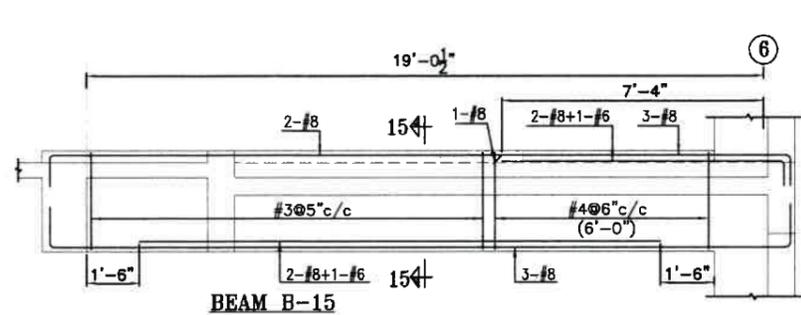
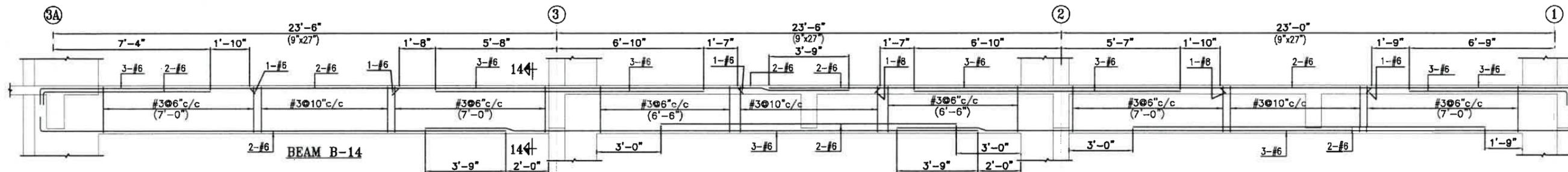
REV.	DATE	DESCRIPTION
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE REINF. DETAIL OF BEAMS (FIRST SLAB) (B-17 TO B-21 AND CB-1) (BLOCK-A)		
ARCHITECT, IMTIAZ ALI ASSOCIATES 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS CIVIL AND URBAN ENGINEERS. 475-G, JOHAR TOWN LAHORE TEL: 35240758, 35240757 E-mail: cue248a@yahoo.com		
COMPUTERISED		JOB:NO.
DESIGNED: ENGR. NADEEM MAJMOOD		DRG:NO.
APPROVED:		DATE: 29-04-2021
SCALE:		S-17





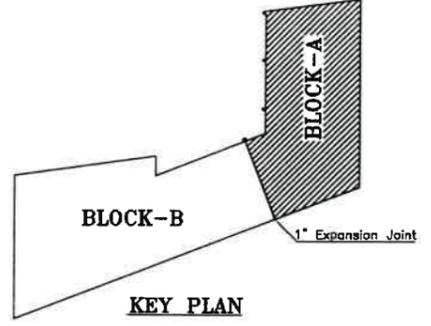
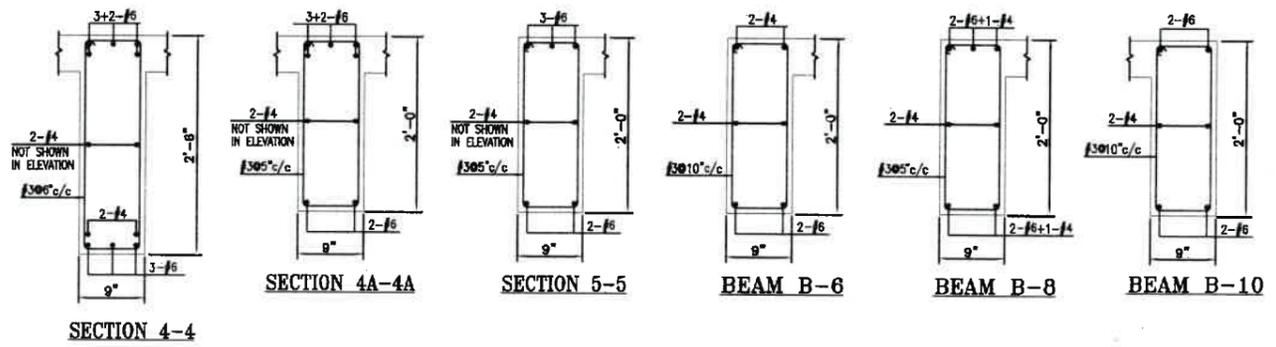
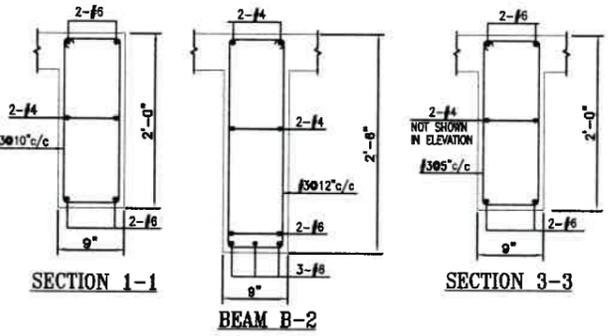
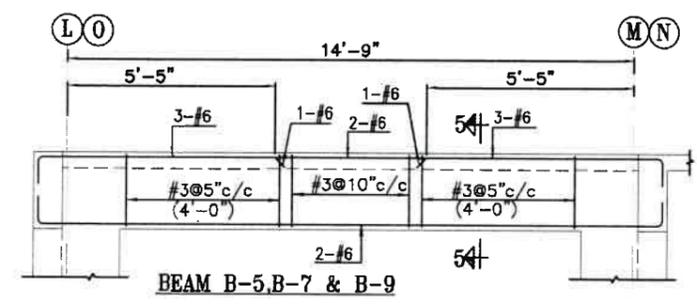
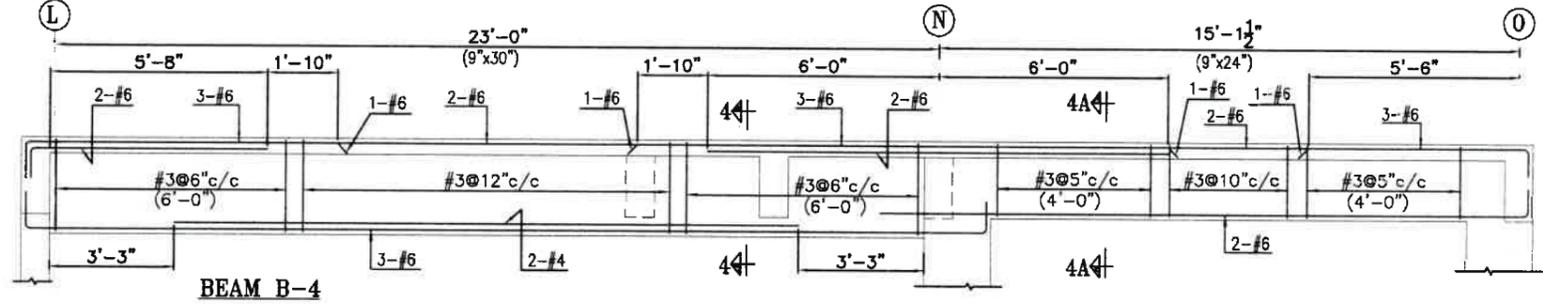
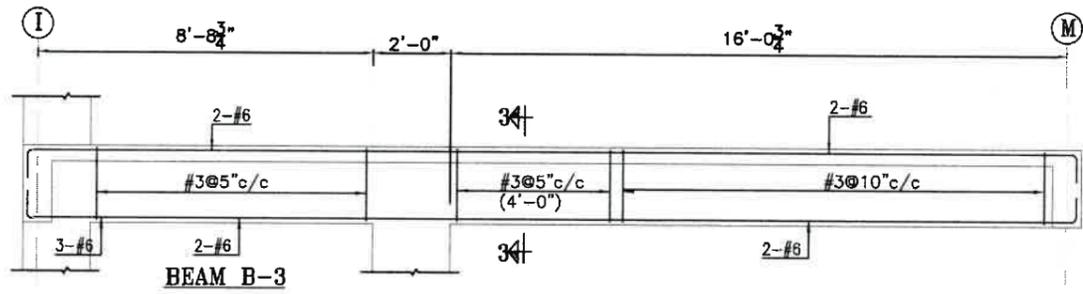
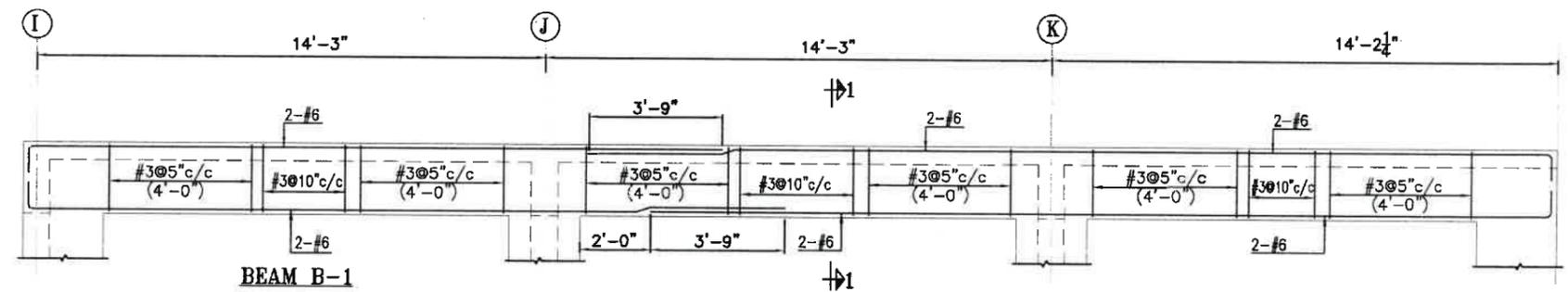
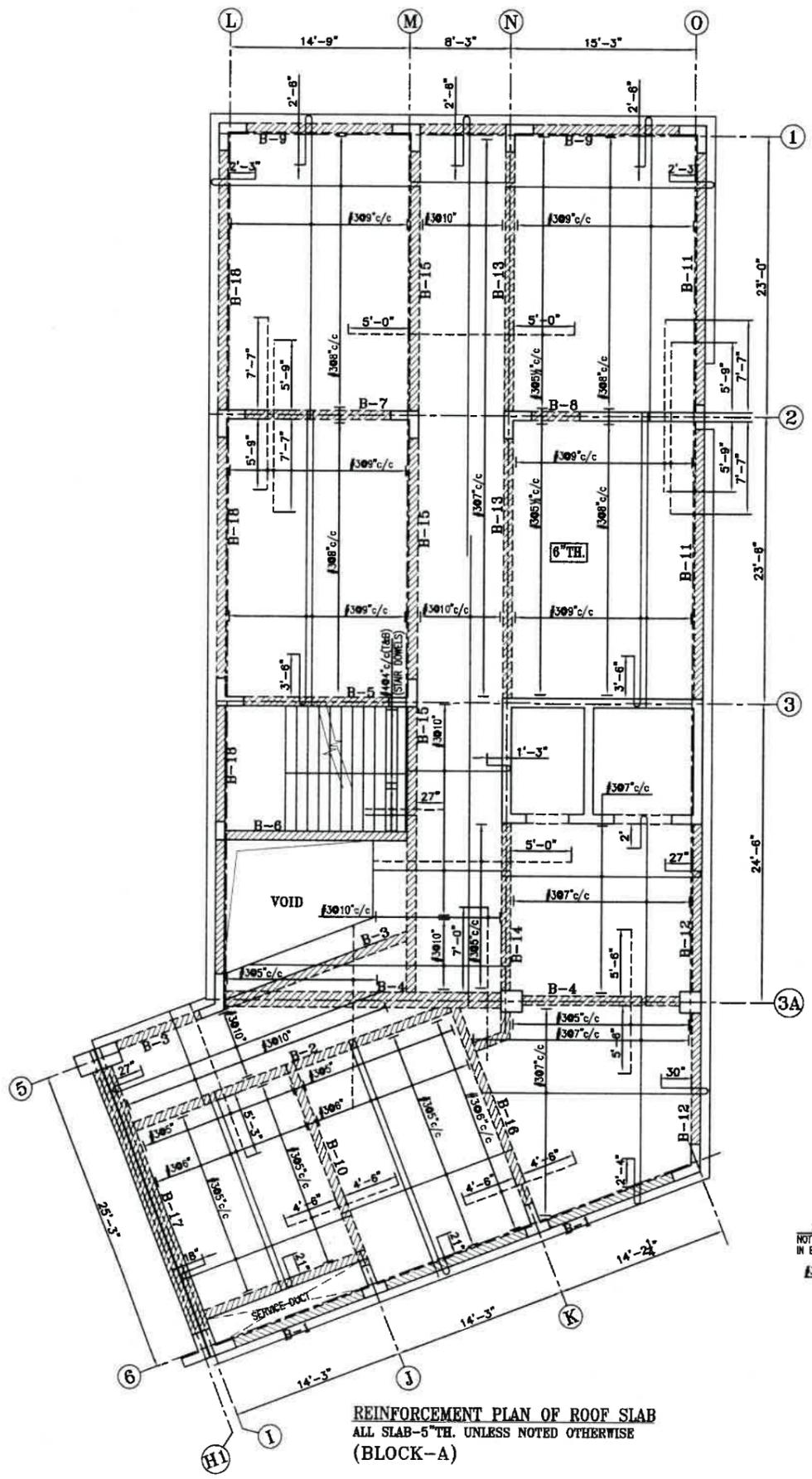
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REV.	DATE	DESCRIPTION
CLIENT <b>PAKISTAN INSTITUTE OF FASHION AND DESIGN</b>		
TITLE <b>REINF. DETAIL OF BEAMS (TYP.FLOOR) (B-5 TO B-13) (BLOCK-A)</b>		
ARCHITECT, <b>IMTIAZ ALI ASSOCIATES</b> 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS <b>CIVIL AND URBAN ENGINEERS.</b> 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249a@yahoo.com		
COMPUTERISED		JOB.NO.
DESIGNED: ENGR. NADEEM MAHMOOD		DRG.NO.
APPROVED:		DATE: 29-04-2021
SCALE:		S-19



TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE REINF. DETAIL OF BEAMS (TYP. FLOOR) (B-14 TO B-17 AND CB-1) (BLOCK-A)		
ARCHITECT, IMTIAZ ALI ASSOCIATES 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS CIVIL AND URBAN ENGINEERS. 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249a@yahoo.com		
COMPUTERISED		JOB NO.
DESIGNED BY: ENGR. NADEEM MAHMOOD		
APPROVED:		DRG. NO.
SCALE:	DATE: 28-04-2021	S-20



TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT <b>PAKISTAN INSTITUTE OF FASHION AND DESIGN</b>		
TITLE <b>REINF. DETAIL OF ROOF SLAB &amp; BEAMS (B-1 TO B-10) (BLOCK-A)</b>		
ARCHITECT <b>IMTIAZ ALI ASSOCIATES</b> 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS <b>CIVIL AND URBAN ENGINEERS.</b> 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249@yahoo.com		
COMPUTERISED	DESIGNED: ENGR. NADEEM MAHMOOD	JOB NO.
APPROVED:	DATE: 29-04-2021	DRG. NO.
SCALE:		S-21



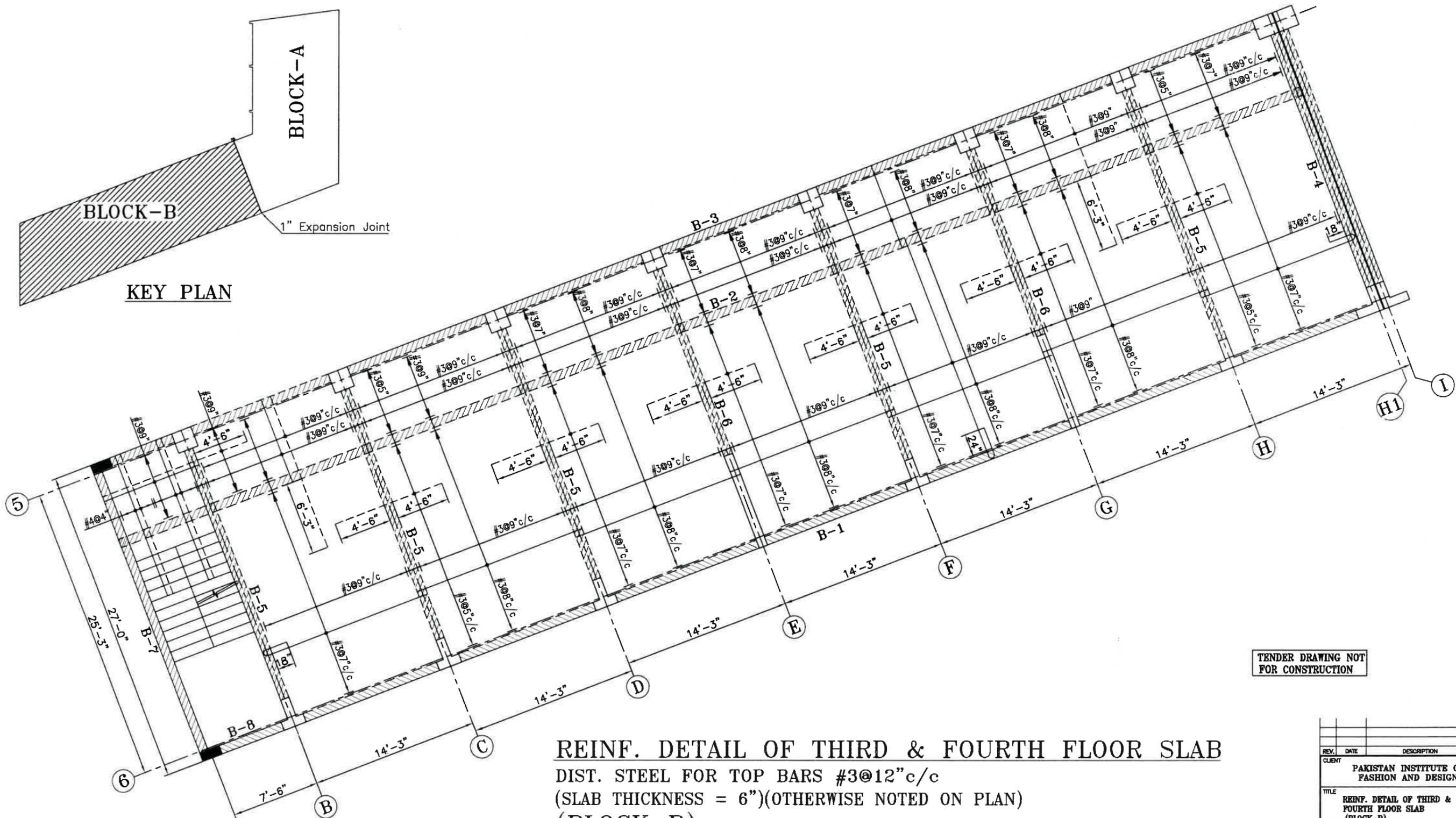
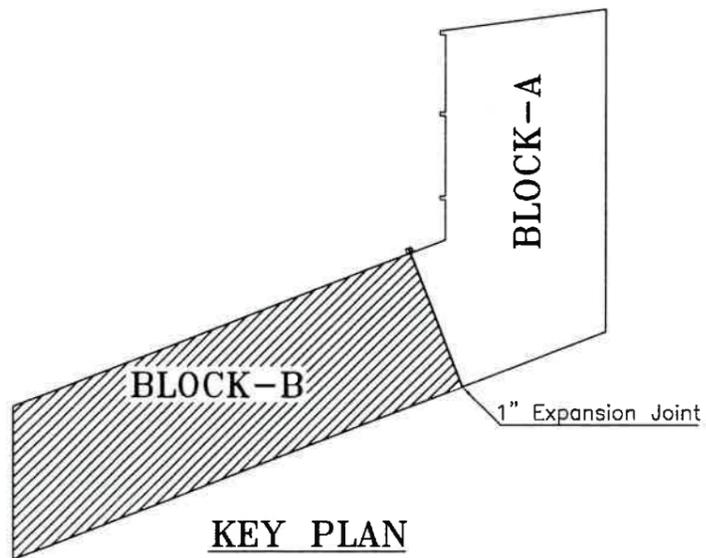










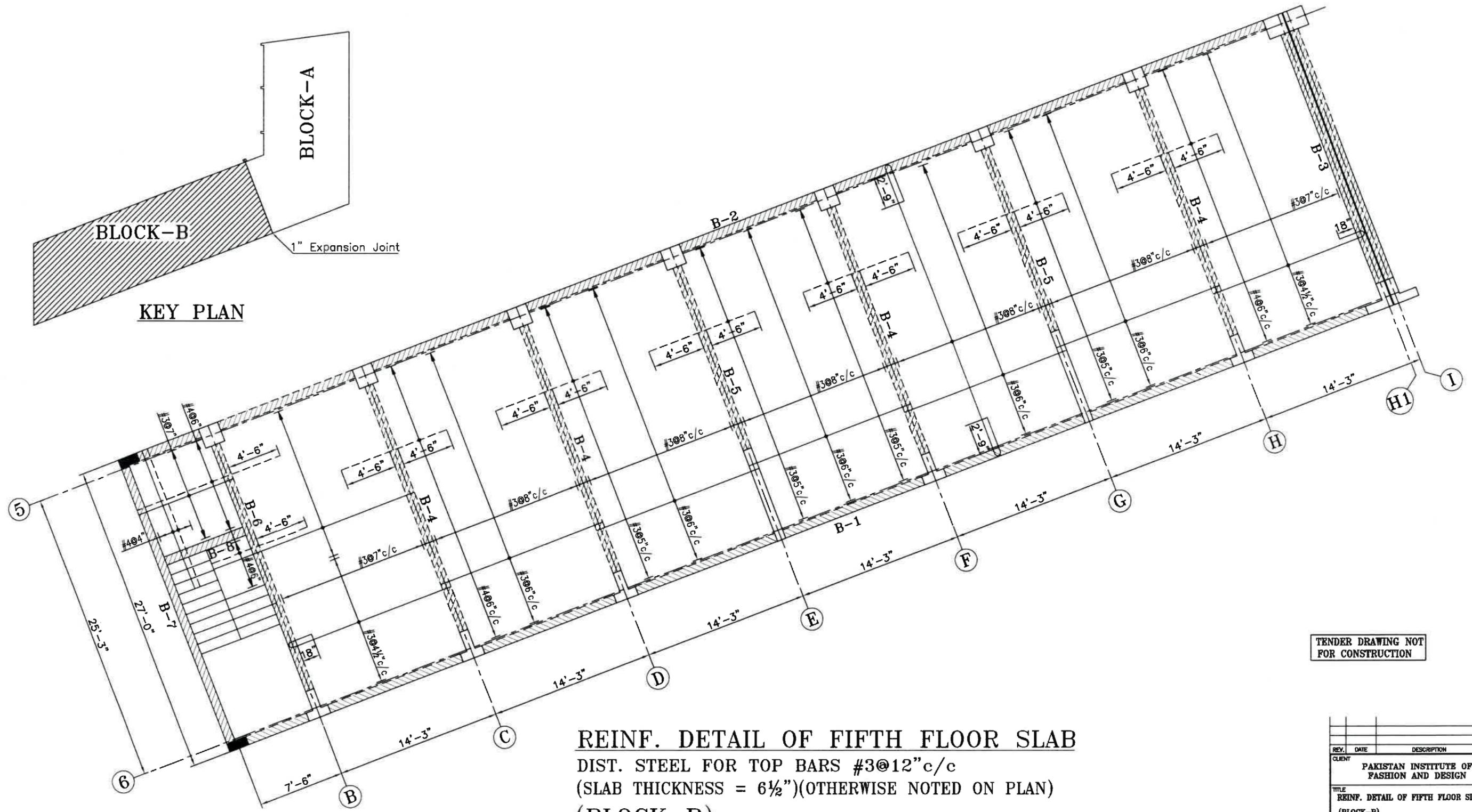


TENDER DRAWING NOT FOR CONSTRUCTION

**REINFORCING DETAIL OF THIRD & FOURTH FLOOR SLAB**  
**DIST. STEEL FOR TOP BARS #3@12" c/c**  
 (SLAB THICKNESS = 6") (OTHERWISE NOTED ON PLAN)  
 (BLOCK-B)

REV.	DATE	DESCRIPTION
CLIENT		
PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE		
REINFORCING DETAIL OF THIRD & FOURTH FLOOR SLAB (BLOCK-B)		
ARCHITECT		
IMTIAZ ALI ASSOCIATES		
280-A, UPPER MALL, LAHORE.		
TEL: 5713215, 5874825		
STRUCTURAL CONSULTANTS		
CIVIL AND URBAN ENGINEERS.		
475-G, JOHAR TOWN, LAHORE		
TEL: 35240756, 35240757		
E-mail: cu249@yahoo.com		
COMPUTERISED		JOB-NO.
DESIGNED: ENGR. NADREM MAHMUD		
APPROVED:		DBE-NO.
SCALE:	DATE: 29-04-2021	S-28





KEY PLAN

BLOCK-A

BLOCK-B

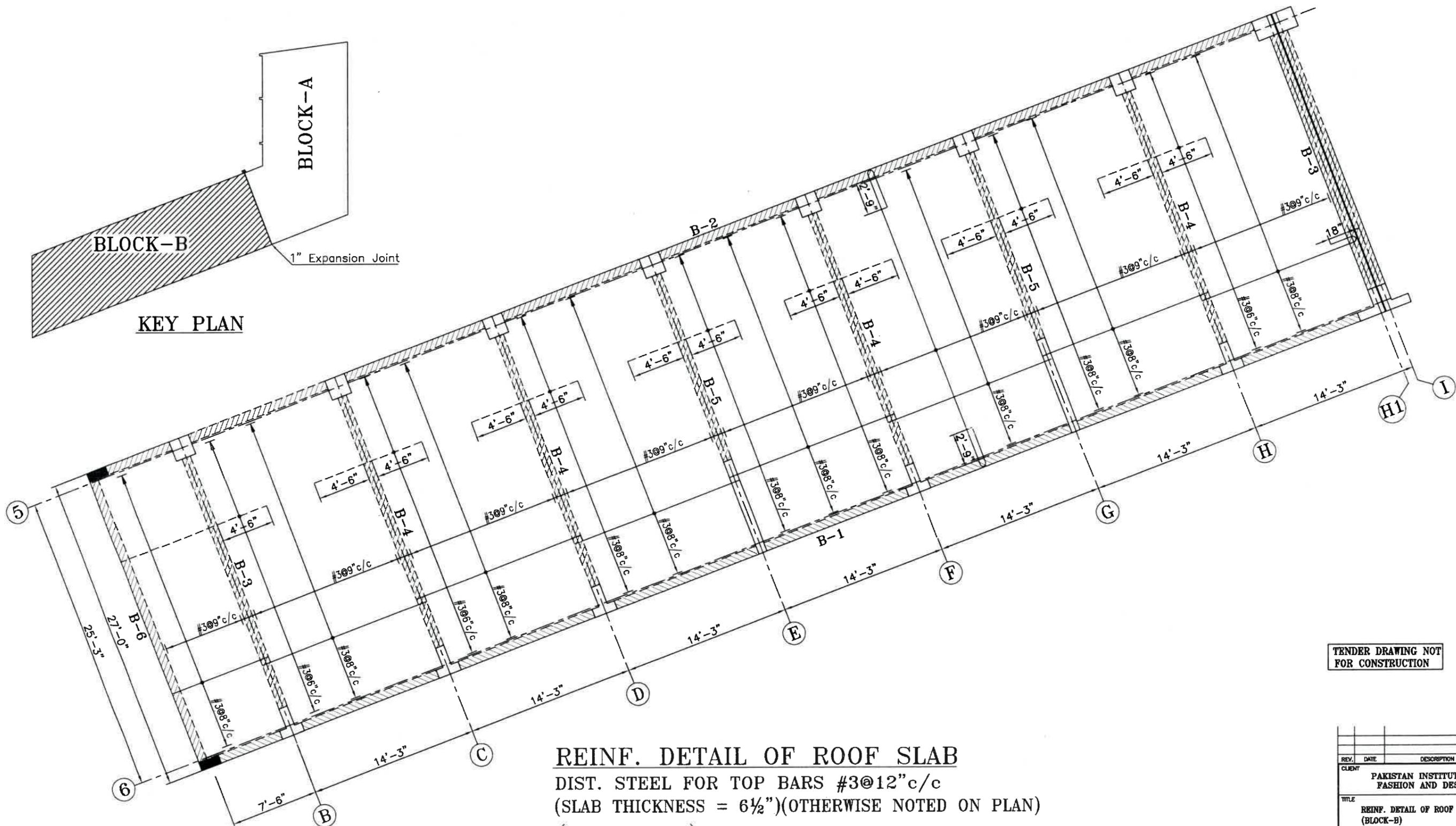
1" Expansion Joint

TENDER DRAWING NOT FOR CONSTRUCTION

**REINF. DETAIL OF FIFTH FLOOR SLAB**  
**DIST. STEEL FOR TOP BARS #3@12" c/c**  
**(SLAB THICKNESS = 6½")(OTHERWISE NOTED ON PLAN)**  
**(BLOCK-B)**

REV.	DATE	DESCRIPTION
CLIENT		
PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE		
REINF. DETAIL OF FIFTH FLOOR SLAB (BLOCK-B)		
ARCHITECT		
IMTIAZ ALI ASSOCIATES		
238-A, UPPER MALL, LAHORE.		
Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS		
CIVIL AND URBAN ENGINEERS.		
475-G, JOHAR TOWN LAHORE		
TEL: 35240756, 35240757		
E-mail: oue248@yahoo.com		
COMPUTERISED		JOB NO.
DESIGNED: ENGR. NADEEM MAJMOOD		
APPROVED:		
SCALE:	DATE: 28-04-2021	S-30

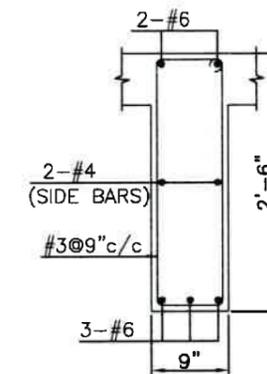
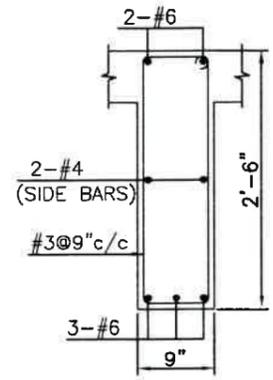
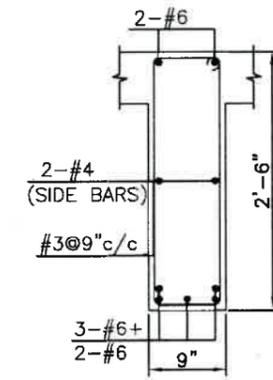
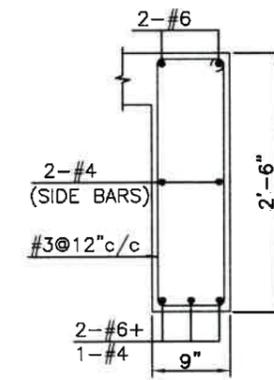
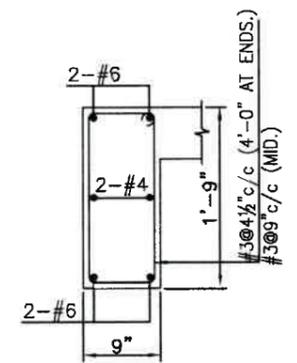
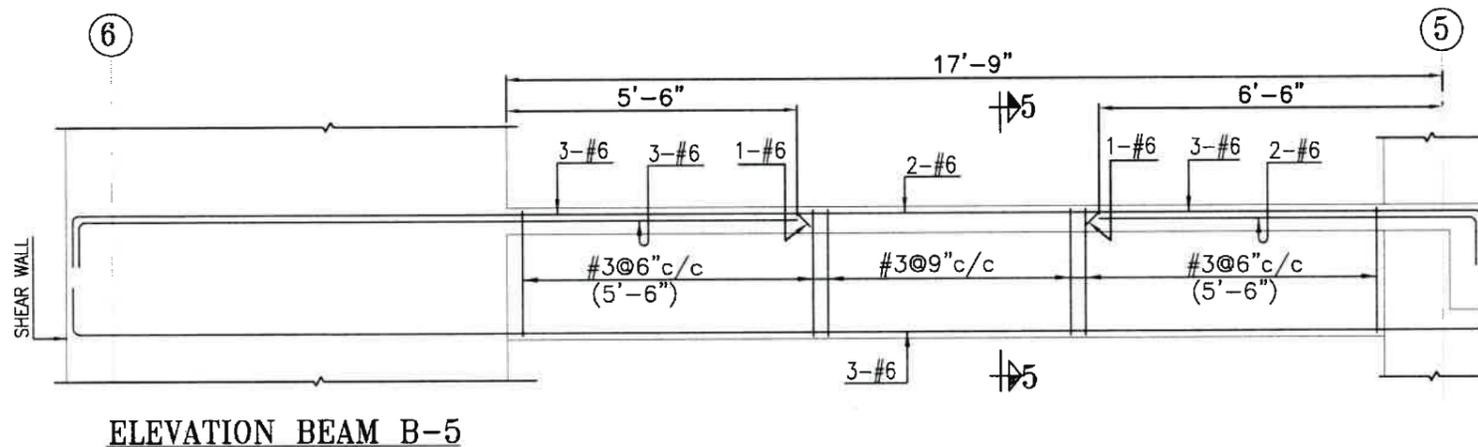
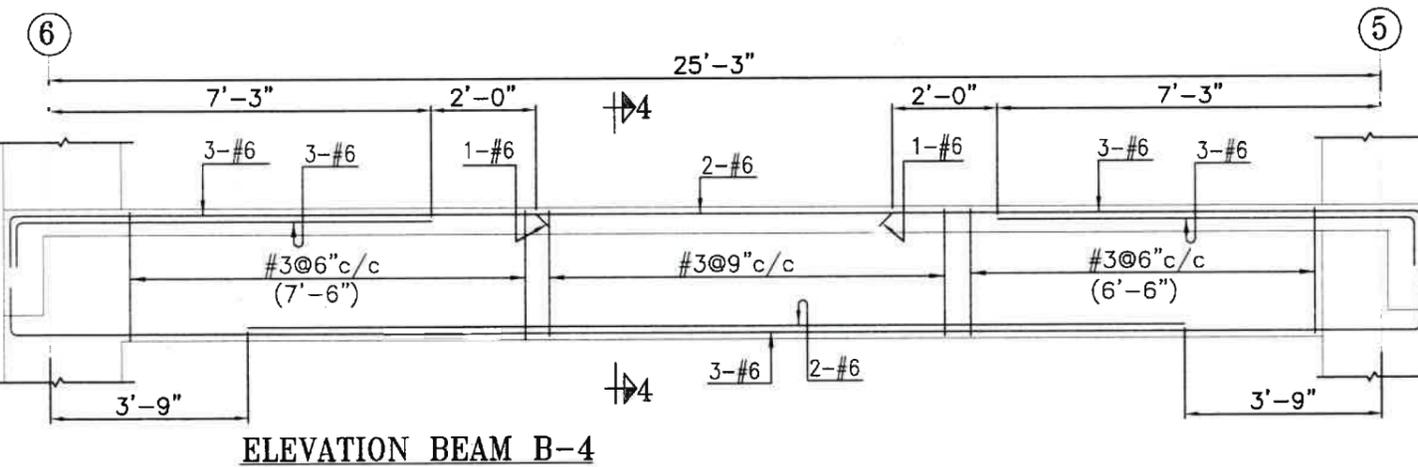
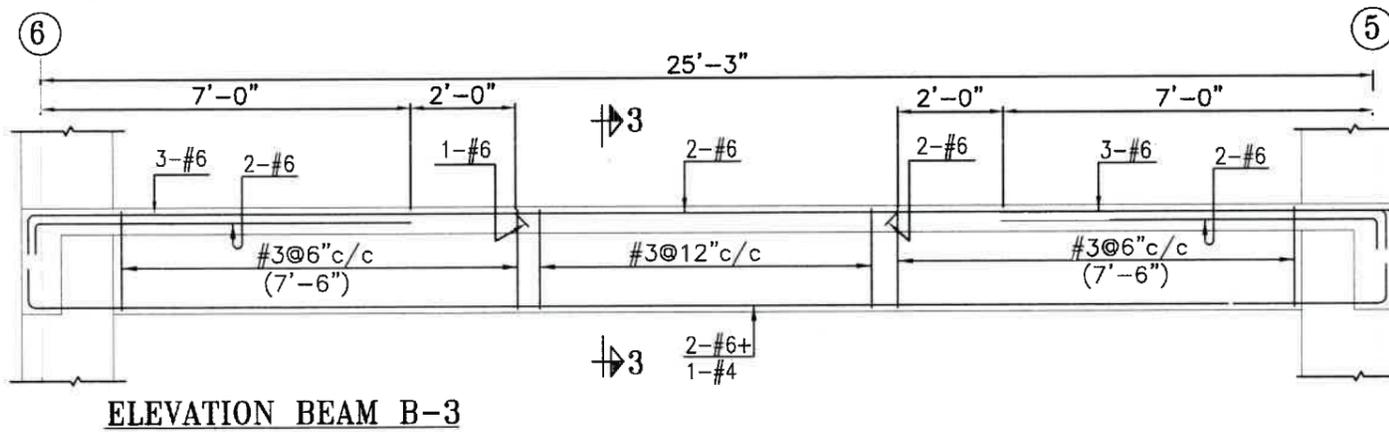




**REINF. DETAIL OF ROOF SLAB**  
 DIST. STEEL FOR TOP BARS #3@12" c/c  
 (SLAB THICKNESS = 6½") (OTHERWISE NOTED ON PLAN)  
 (BLOCK-B)

TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE REINF. DETAIL OF ROOF SLAB (BLOCK-B)		
ARCHITECT, IMTIAZ ALI ASSOCIATES 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS CIVIL AND URBAN ENGINEERS. 475-G, JOHAR TOWN LAHORE TEL: 35240756, 35240757 E-mail: cue249@yahoo.com		
COMPUTERISED		JOB NO.
DESIGNED: ENGR. NADEEM MAHMOOD		DESIGN NO.
APPROVED:		DATE: 29-04-2021
SCALE:		S-32



TENDER DRAWING NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
CLIENT PAKISTAN INSTITUTE OF FASHION AND DESIGN		
TITLE REINF. DETAIL OF BEAMS (ROOF SLAB) (B-1 TO B-5) (BLOCK-B)		
ARCHITECT IMTIAZ ALI ASSOCIATES 298-A, UPPER MALL LAHORE. Tel. 5713215, 5874825		
STRUCTURAL CONSULTANTS CIVIL AND URBAN ENGINEERS. 475-G, JOHAR TOWN LAHORE. TEL: 35240756, 35240757 E-mail: cus24@yaho.com		
COMPUTERISED		JOB NO.
DESIGNED: ENGR. NADREM MAHMOOD		
APPROVED:		DATE: 28-04-2021
SCALE:		8-83

# PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

## PLUMBING & ELECTRICAL

### TENDER DRAWINGS

JUNE, 2021

CLIENT:



**PAKISTAN INSTITUTE OF FASHION  
AND DESIGN,  
LAHORE**



**IAA - IMTIAZ ALI ASSOCIATES  
(PVT. LTD)**

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Web: http://www.jers.com.pk

**PAKISTAN SCHOOL OF  
FASHION DESIGN - FEMALE  
LIST OF DRAWINGS**

**PLUMBING DRAWINGS**

1	LEGEND & NOTES	G-00
WATER SUPPLY		
2	WATER SUPPLY LAYOUT PLAN (GROUND FLOOR)	W - 01
3	WATER SUPPLY LAYOUT PLAN (FIRST FLOOR)	W - 02
4	WATER SUPPLY LAYOUT PLAN (SECOND FLOOR)	W - 03
5	WATER SUPPLY LAYOUT PLAN (THIRD FLOOR)	W - 04
6	WATER SUPPLY LAYOUT PLAN (4th FLOOR)	W - 05
7	WATER SUPPLY LAYOUT PLAN (5th FLOOR)	W - 06
8	WATER SUPPLY LAYOUT PLAN (ROOF FLOOR)	W - 07
SEWER SYSTEM		
09	SEWERAGE SYSTEM LAYOUT PLAN (GROUND FLOOR)	S - 01
10	SEWERAGE SYSTEM LAYOUT PLAN (FIRST FLOOR)	S - 02
11	SEWERAGE SYSTEM LAYOUT PLAN (SECOND FLOOR)	S - 03
12	SEWERAGE SYSTEM LAYOUT PLAN (THIRD FLOOR)	S - 04
13	SEWERAGE SYSTEM LAYOUT PLAN (4th FLOOR)	S - 05
14	SEWERAGE SYSTEM LAYOUT PLAN (5th FLOOR)	S - 06
15	SEWERAGE SYSTEM LAYOUT PLAN (ROOF FLOOR)	S - 07
FIRE FIGHTING		
16	FIRE FIGHTING LAYOUT PLAN (GROUND FLOOR)	F - 01
17	FIRE FIGHTING LAYOUT PLAN (FIRST FLOOR)	F - 02
18	FIRE FIGHTING LAYOUT PLAN (SECOND FLOOR)	F - 03
19	FIRE FIGHTING LAYOUT PLAN (THIRD FLOOR)	F - 04
20	FIRE FIGHTING LAYOUT PLAN (4th FLOOR)	F - 05
21	FIRE FIGHTING LAYOUT PLAN (5th FLOOR)	F - 06
MISCELLANEOUS DETAIL		
22	MISCELLANEOUS DETAIL-1 PLUMBING SYSTEM	M - 01
23	MISCELLANEOUS DETAIL-2 PLUMBING SYSTEM	M - 02
24	DETAIL OF SEPTIC TANK	M - 03
25	DETAIL OF UNDER GROUND WATER TANK	M - 04
26	DETAIL OF OVER HEAD WATER TANK	M - 05

MEP CONSULTANT:



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CLIENT

PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

PACKAGE

TITLE

LIST OF DRAWINGS

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	-
DRAWING NO.	L-00

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or making shop drawings. The original should be retained immediately in any discrepancy.

## WATER SUPPLY

### LEGEND

COLD WATER PIPE (C.W)	
HOT WATER PIPE (H.W)	
STORAGE GEYSER (SG)	
VALVE	

### NOTES

1. ALL WATER SUPPLY PIPE DIAMETERS MENTIONED ARE EXTERNAL DIAMETERS UNLESS OTHERWISE MENTIONED
2. PROVIDE ISOLATION (GATE) VALVE ON ALL COLD & HOT WATER SUPPLY LINES AT THE INLET TO EACH TOILET. VALVES SHALL BE INSTALLED AT ACCESSIBLE LOCATIONS
3. ALL WATER SUPPLY PIPES ARE POLYPROPYLENE RANDOM PIPE (PPR) UNLESS OTHERWISE MENTIONED
4. ALL WATER SUPPLY PIPES FITTINGS SUCH AS BENDS, TEES, SOCKETS, ARE PPR (PN 25) UNLESS OTHERWISE MENTIONED.
5. ALL WATER SUPPLY PIPES ARE SUSPENDED ALONG CEILING OR CONCEALED IN WALLS.
6. ALL WATER SUPPLY PIPES WITHIN THE BUILDING SHALL RUN AT HIGH LEVEL UNLESS OTHERWISE SPECIFIED
7. ALL WCs, WASH BASINS AND SINKS TO BE PROVIDED WITH T STOP COCKS
8. CONTRACTOR SHALL VERIFY THE PUMPING FOR ALL PUMPS AS PER THE SITE CONDITION AND SHALL INFORM TO THE ENGINEER FOR ANY VARIATION
9. ALL PUMP SHALL BE PROVIDED WITH FLEXIBLE CONNECTOR AT SUCTION AND DISCHARGE
10. FIRE WATER PIPE SHALL BE M.S SCHEDULE 40 UNLESS OTHERS MENTION
11. PROVIDE SEPARATE ELECTRIC / GAS GEYSER FOR HOT WATER IN WASH BASIN, SINK.

## SEWERAGE

### LEGEND

WASTE WATER PIPE	
SOIL PIPE	
SEWER	
FLOOR DRAIN WITH P-TRAP	
MANHOLE	
GULLY TRAP	

### NOTES

1. ALL SOIL, WASTE, VENT & DRAINAGE PIPES DIAMETERS MENTIONED ARE NOMINAL DIAMETERS UNLESS OTHERWISE MENTIONED
2. ALL SOIL, WASTE AND VENT PIPES ARE uPVC (UNPLASTICSED POLYVINYL CHLORIDE) CLASS B UNLESS OTHERWISE MENTIONED
3. ALL MANHOLE COVERS SHALL BE OF HEAVY DUTY CAST IRON
4. INVERT LEVELS WILL BE ADJUSTED AS PER SITE CONDITION
5. ALL DIAMETERS MENTIONED ARE NOMINAL DIAMETERS
6. ALL VERTICAL WC'S & URINALS WILL BE PROVIDED WITH MUSLIM SHOWER
7. ALL RAIN WATER DISPOSAL PIPES SHALL BE OF uPVC CLASS-B & HORIZONTAL (ON LOWER FLOOR) SHALL BE uPVC CLASS D.
8. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
9. ALL SEWAGE PIPING FROM FIXTURES TO MANHOLES AND GULLY TRAPS SHALL BE OF uPVC
10. ALL CLEAN OUTS & FLOOR DRIANS SHALL BE COORDINATE WITH INTERIOR
11. MINIMUM SLOPE OF SOIL AND WASTE PIPES ARE AS UNDER

<u>PIPE DIA.</u>	<u>SLOPE</u>
3"	1:50
4"	1:100
6"	1:150
9"	1:200



CLIENT  
PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT  
PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

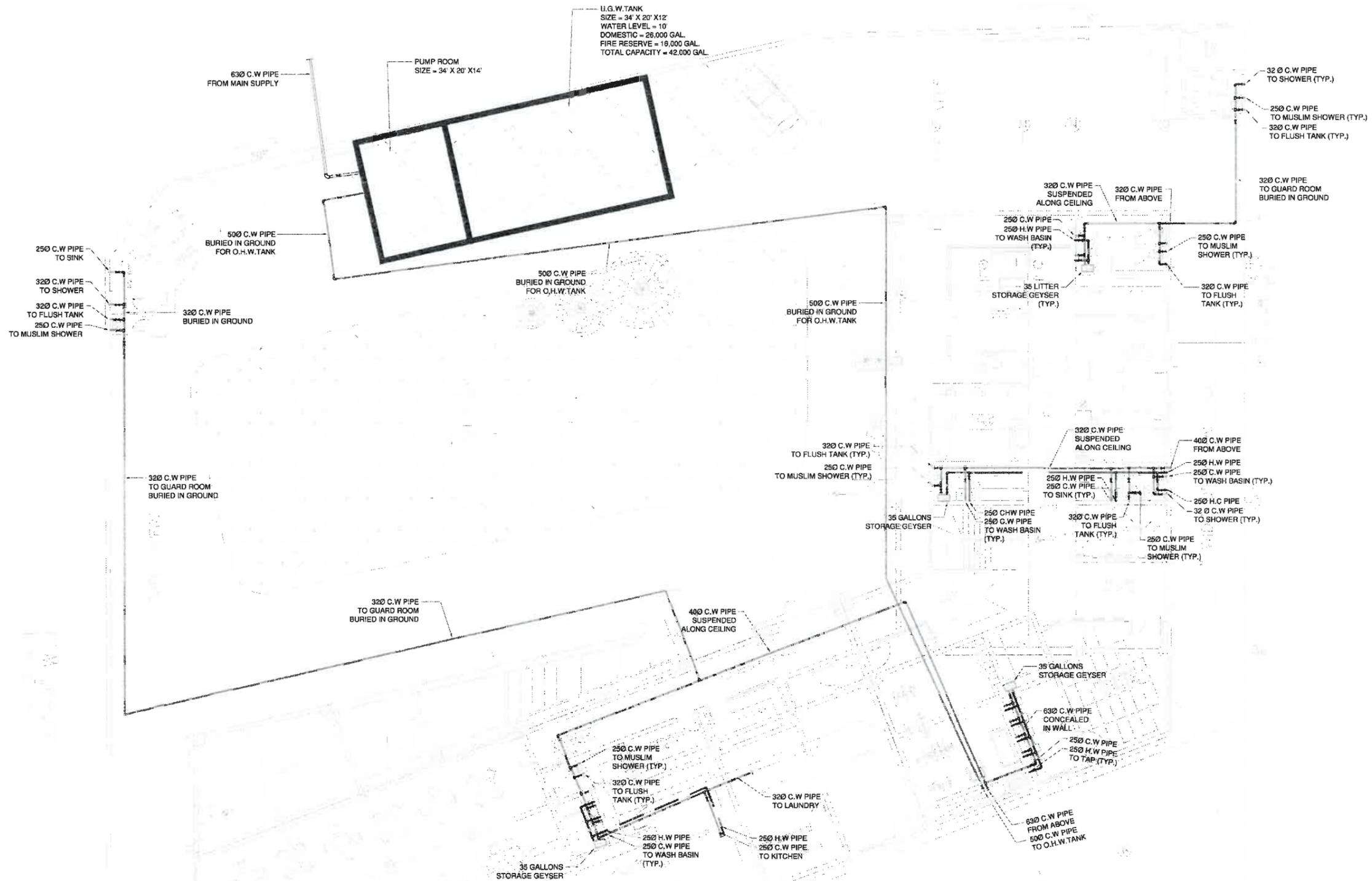
PACKAGE

TITLE  
LEGEND & NOTES

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@A2 N.T.S
PROJECT NO.	

ISSUING NO.  
G-00

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

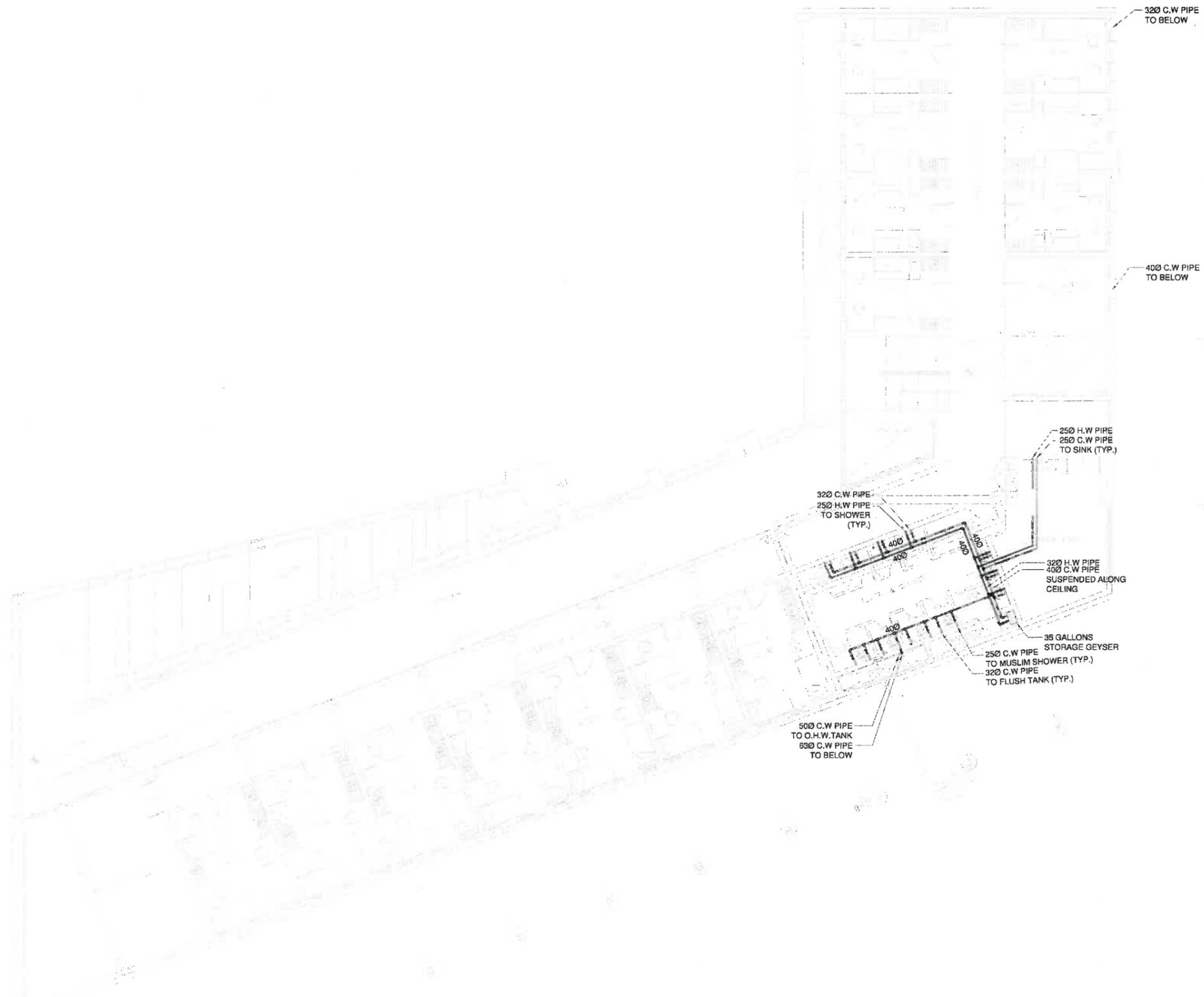
PACKAGE

TITLE  
**WATER SUPPLY LAYOUT PLAN GROUND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@A2 N.T.S
PROJECT NO.	

SHAPING NO. **W-01**

This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer shall be notified immediately of any discrepancy.



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CLIENT  
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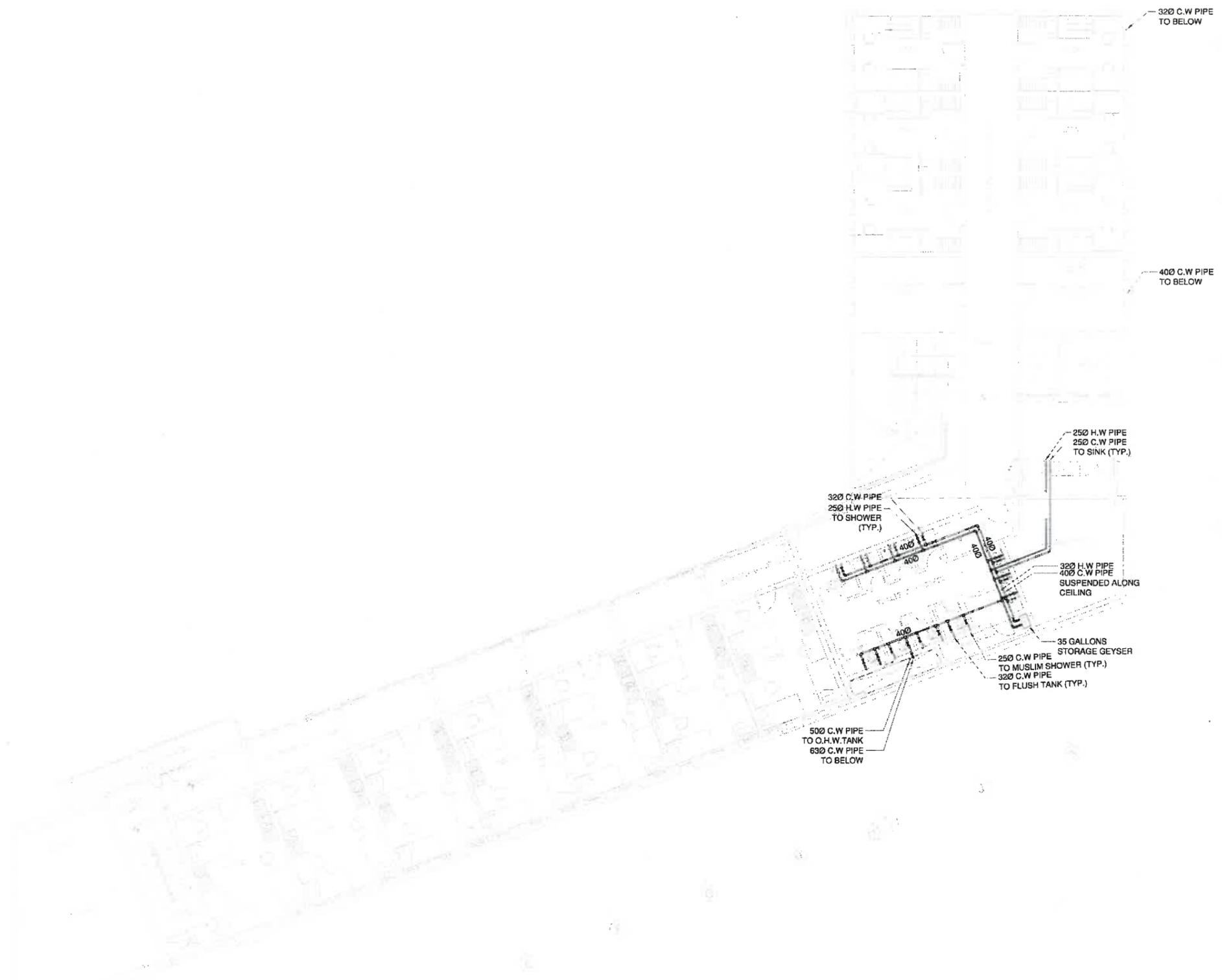
PROJECT  
 PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE  
 TITLE  
 WATER SUPPLY LAYOUT PLAN FIRST FLOOR PLAN

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@A2 N.T.S
PROJECT NO.	

DRAWING NO. W-02

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or making any drawings. The engineer should be notified immediately of any discrepancy.



MEP CONSULTANT:

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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

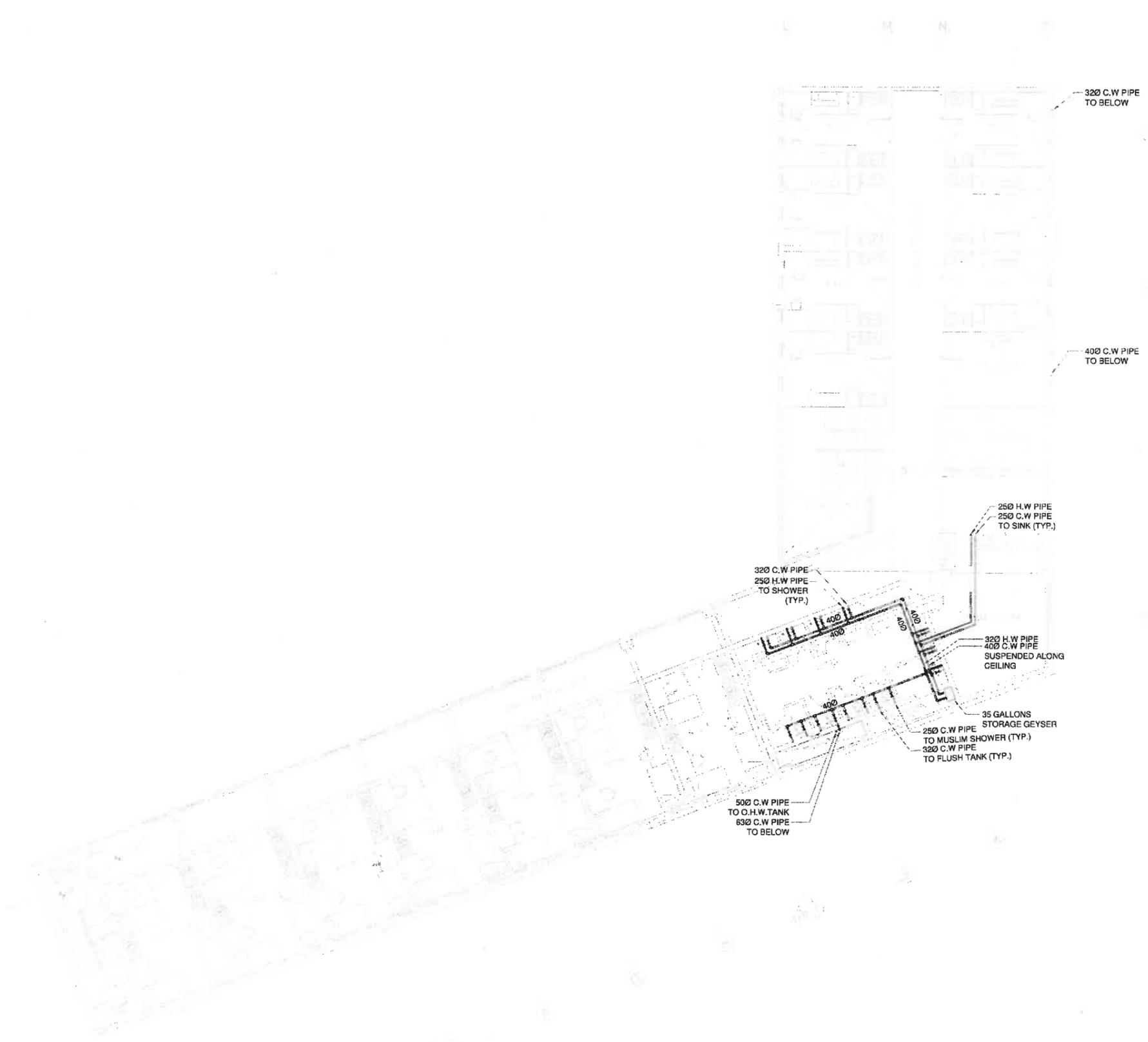
PACKAGE

TITLE  
**WATER SUPPLY LAYOUT PLAN SECOND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. **W-03**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.



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 35876889 - 35876888  
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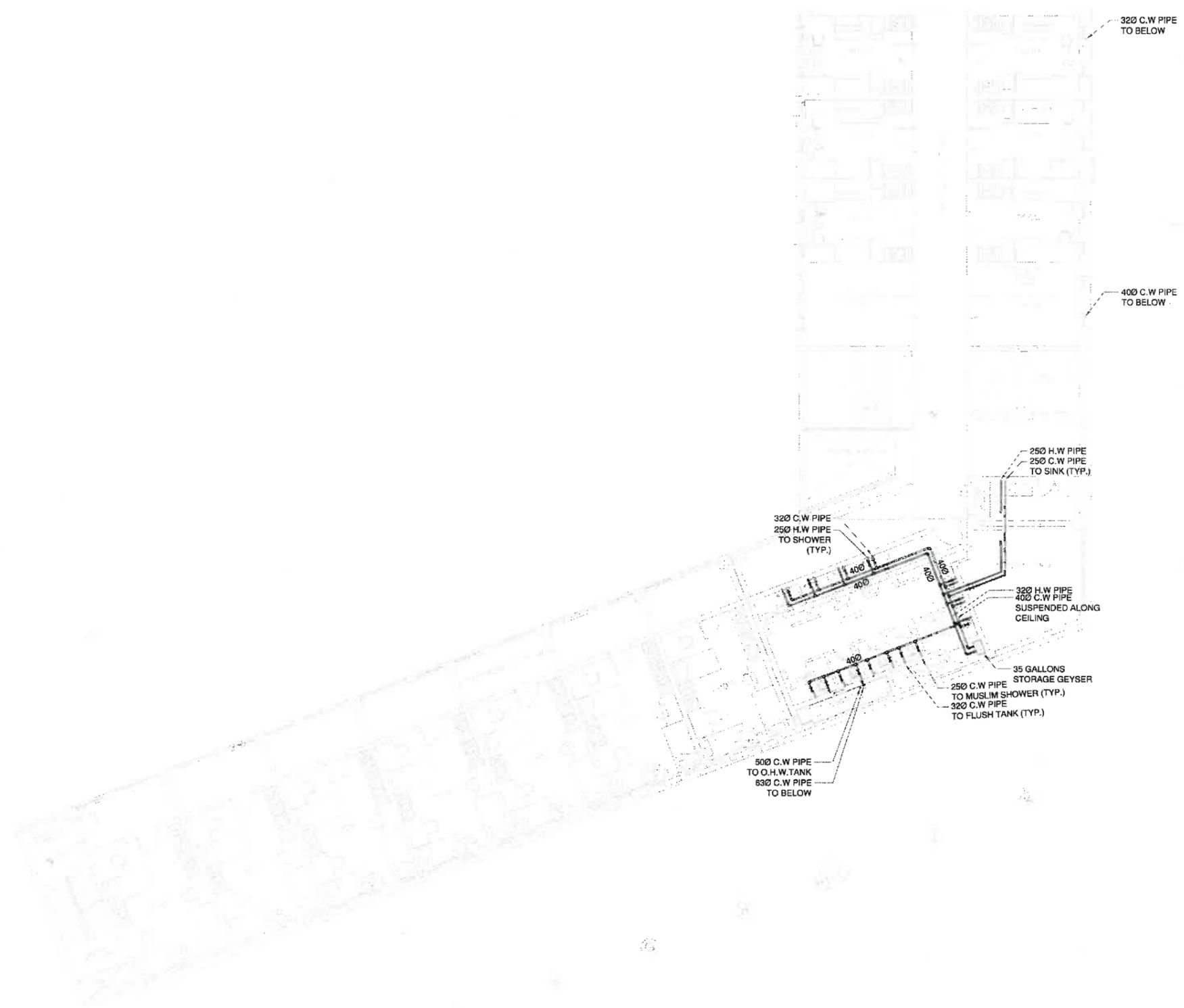
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**WATER SUPPLY LAYOUT PLAN THIRD FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	RAS N.T.S
PROJECT NO.	

SHARING NO. **W-04**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on the job site commencing any work or producing any drawings. The engineer should be notified immediately of any discrepancy.



MEP CONSULTANT:

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CLIENT  
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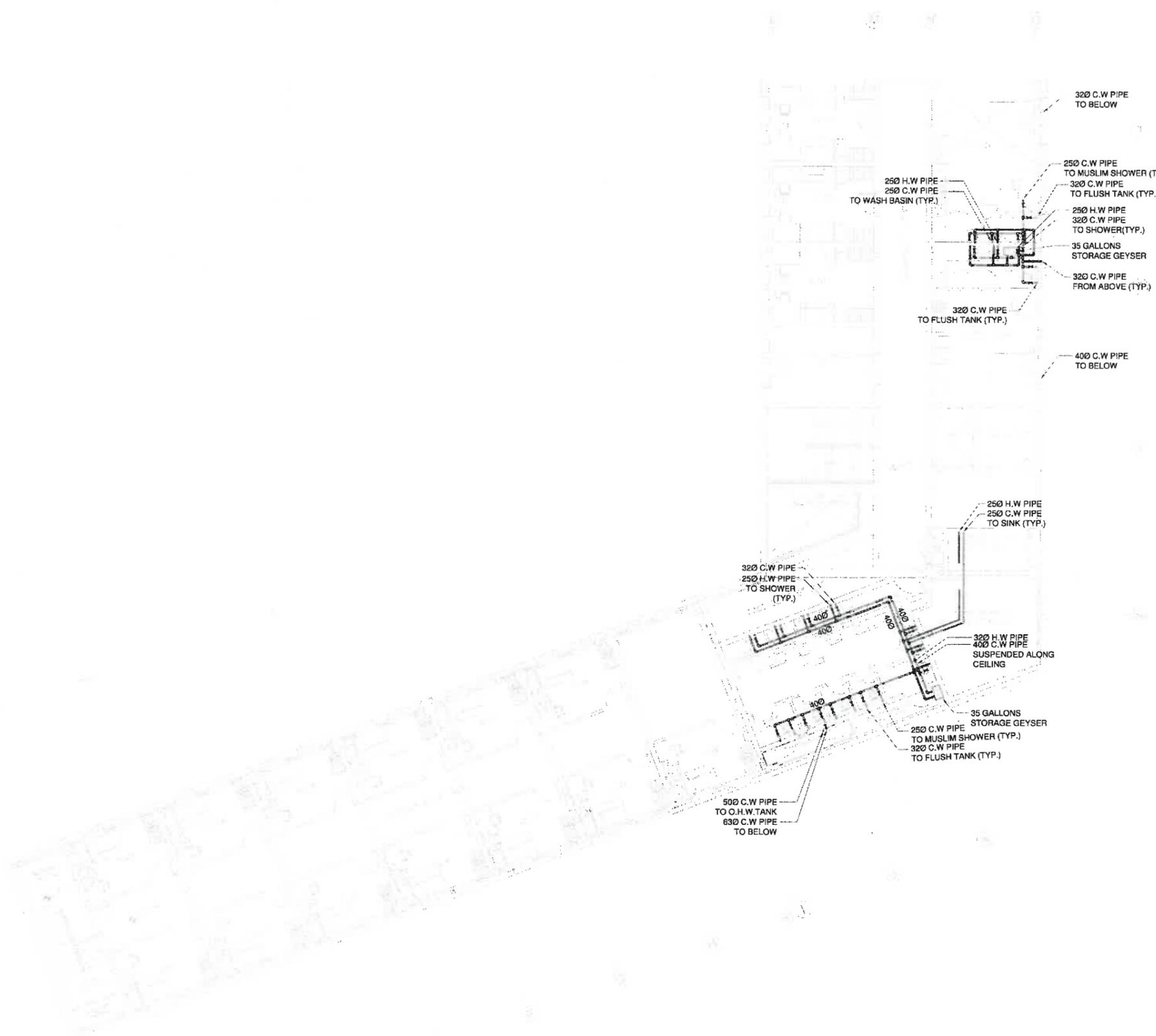
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**WATER SUPPLY LAYOUT PLAN FOURTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

DRAWING NO.	W-05
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This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions shall be checked and verified on site before commencing any work or producing shop drawings. The original shall be retained in the office of the consultant.



MEP CONSULTANT:

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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

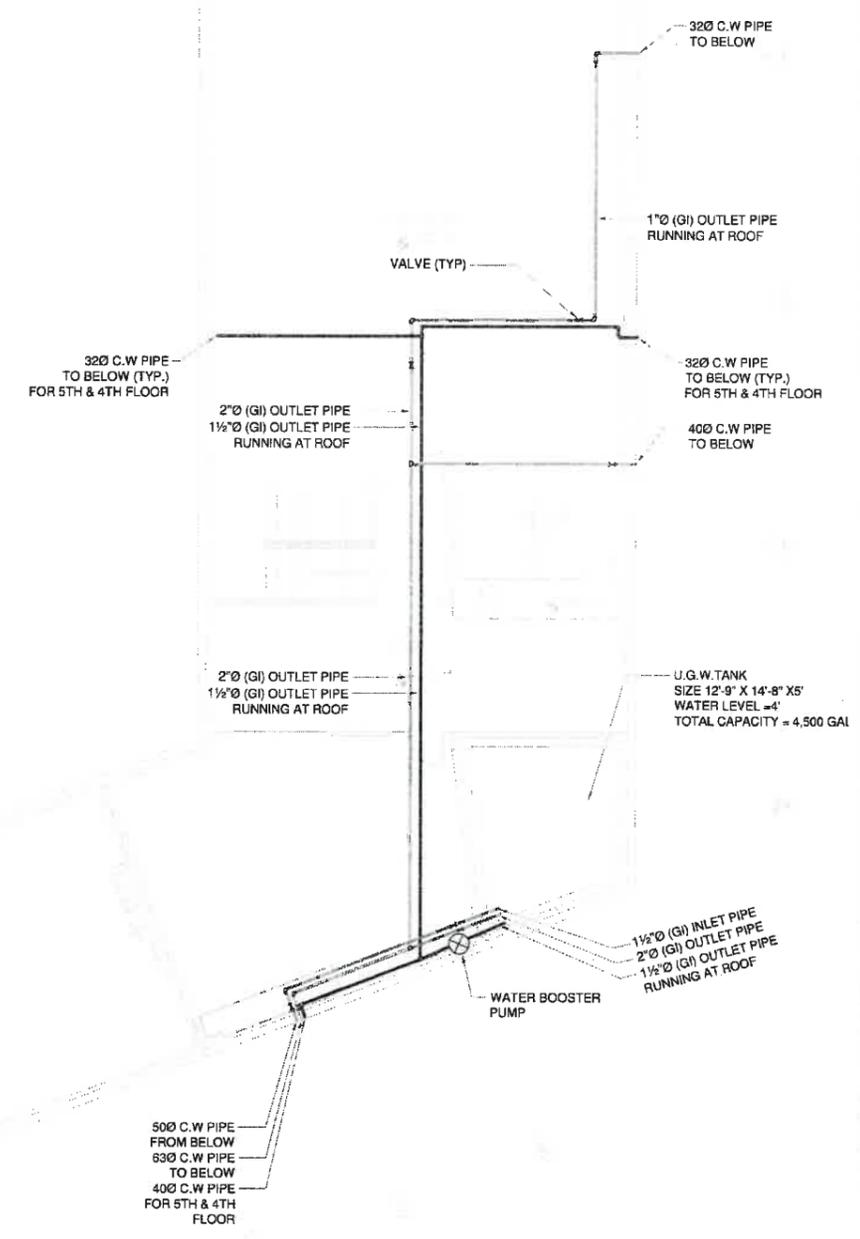
PACKAGE

TITLE  
**WATER SUPPLY LAYOUT PLAN FIFTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	AS SHOWN
PROJECT NO.	N.T.S

DRAWING NO. **W-06**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.



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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

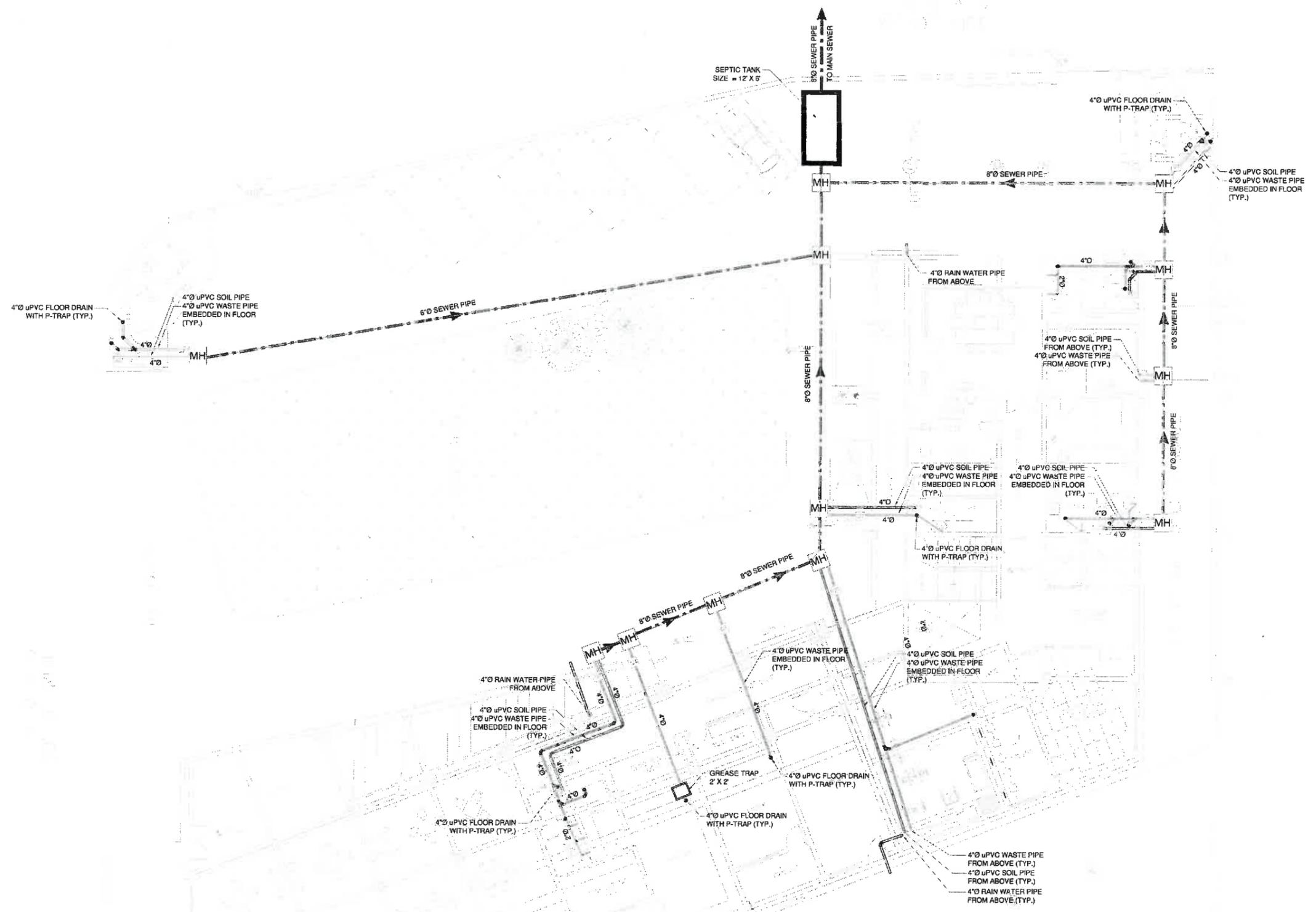
PACKAGE

TITLE  
**WATER SUPPLY LAYOUT PLAN ROOF FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	-

DRAWING NO. **W-07**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or installing any equipment. The engineer should be notified immediately of any discrepancy.



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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

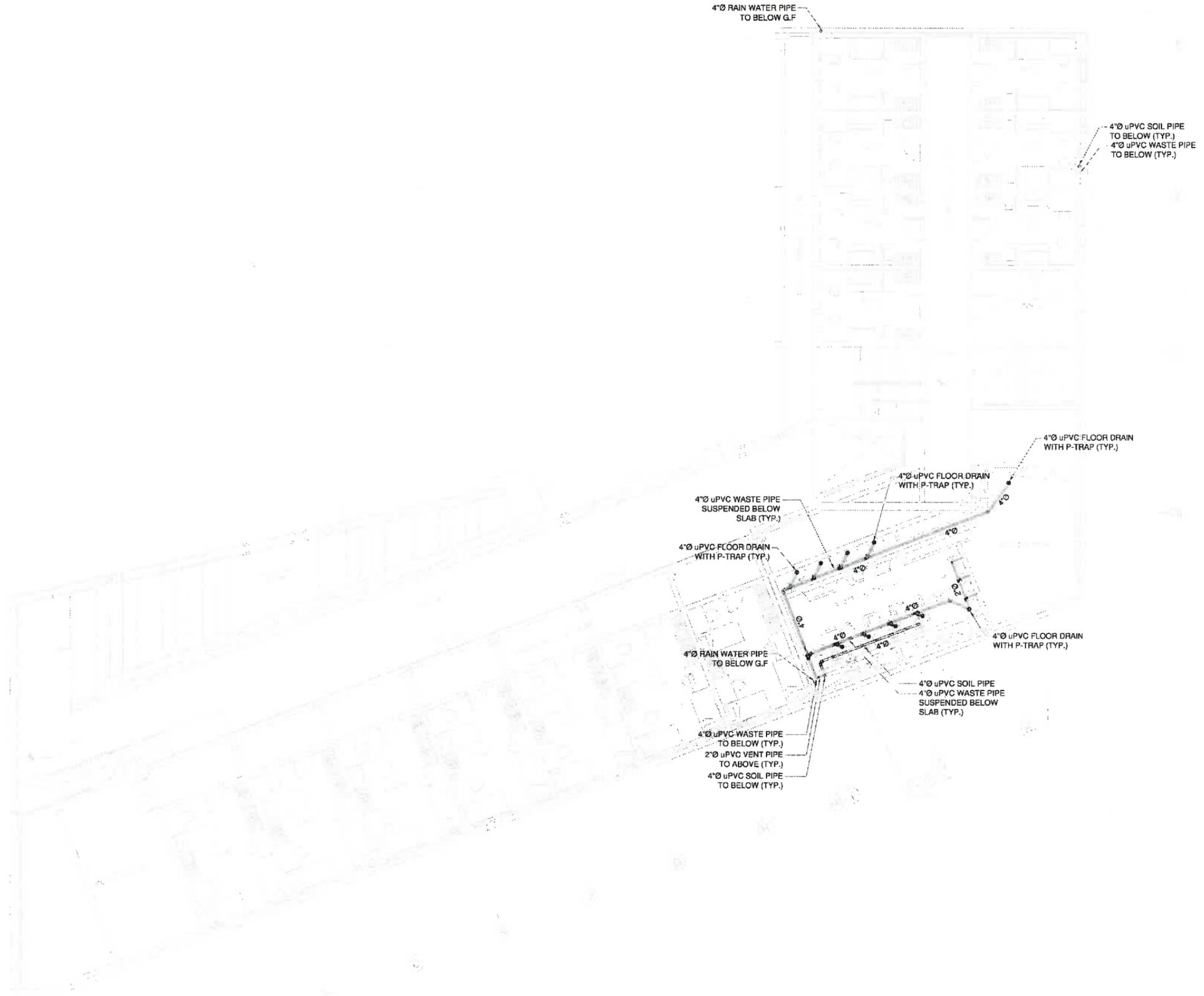
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**SEWER SYSTEM LAYOUT PLAN GROUND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. **S-01**

This drawing is to be used in conjunction with all related drawings. Do not scale from this covering. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The contractor should be notified immediately of any discrepancy.



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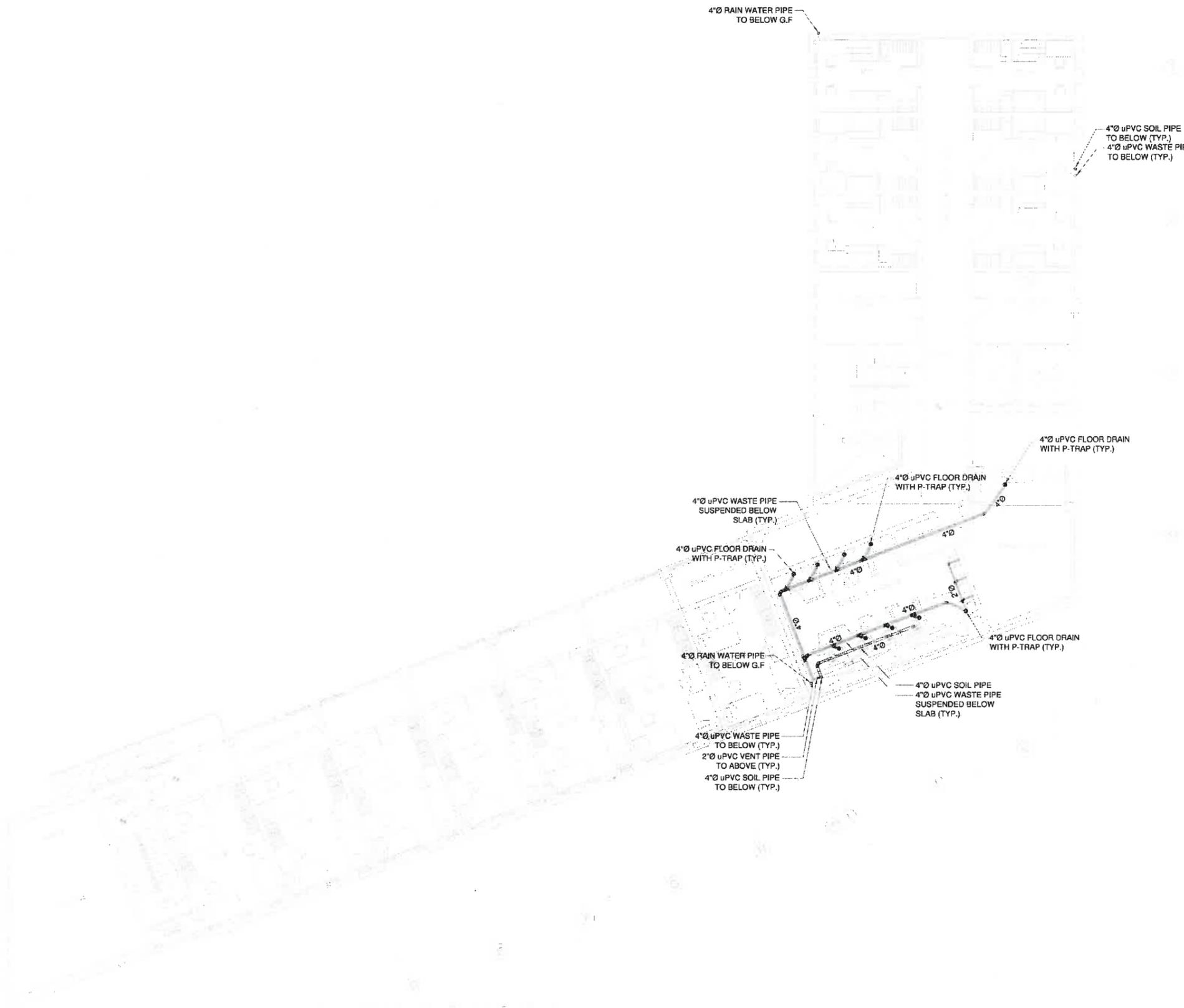
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**SEWER SYSTEM LAYOUT PLAN FIRST FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. **S-02**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding shop drawings. The originator should be notified immediately of any discrepancy.



4"Ø RAIN WATER PIPE  
TO BELOW G.F.

4"Ø uPVC SOIL PIPE  
TO BELOW (TYP.)  
4"Ø uPVC WASTE PIPE  
TO BELOW (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC WASTE PIPE  
SUSPENDED BELOW  
SLAB (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø RAIN WATER PIPE  
TO BELOW G.F.

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC SOIL PIPE  
4"Ø uPVC WASTE PIPE  
SUSPENDED BELOW  
SLAB (TYP.)

4"Ø uPVC WASTE PIPE  
TO BELOW (TYP.)  
2"Ø uPVC VENT PIPE  
TO ABOVE (TYP.)  
4"Ø uPVC SOIL PIPE  
TO BELOW (TYP.)

MEP CONSULTANT:

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CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

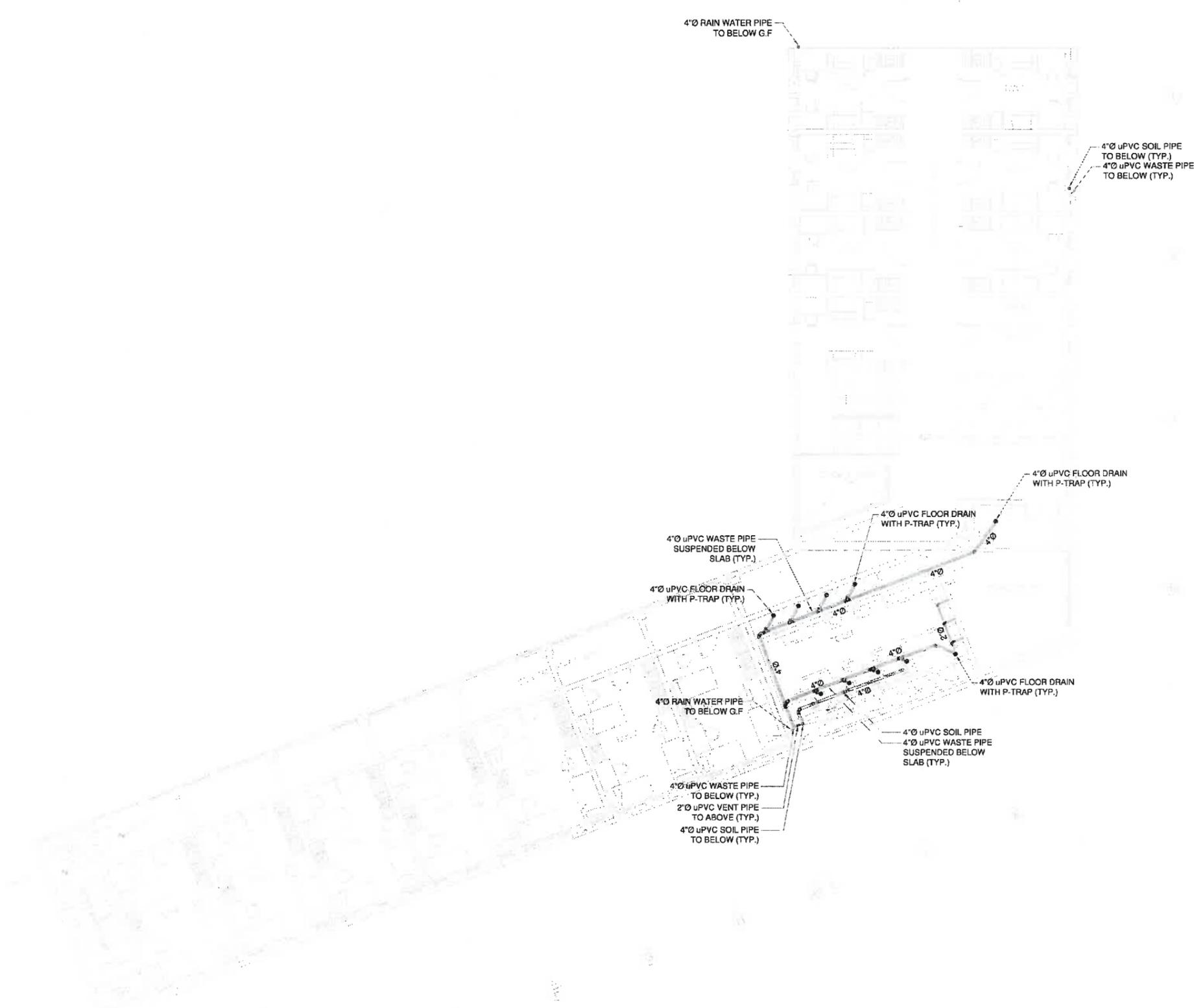
PACKAGE

TITLE  
**SEWER SYSTEM LAYOUT PLAN SECOND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@AS N.T.S
PROJECT NO.	

DRWING NO. **S-03**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



4"Ø RAIN WATER PIPE  
TO BELOW G.F

4"Ø uPVC SOIL PIPE  
TO BELOW (TYP.)  
4"Ø uPVC WASTE PIPE  
TO BELOW (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC WASTE PIPE  
SUSPENDED BELOW  
SLAB (TYP.)

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø RAIN WATER PIPE  
TO BELOW G.F

4"Ø uPVC FLOOR DRAIN  
WITH P-TRAP (TYP.)

4"Ø uPVC SOIL PIPE  
4"Ø uPVC WASTE PIPE  
SUSPENDED BELOW  
SLAB (TYP.)

4"Ø uPVC WASTE PIPE  
TO BELOW (TYP.)  
2"Ø uPVC VENT PIPE  
TO ABOVE (TYP.)  
4"Ø uPVC SOIL PIPE  
TO BELOW (TYP.)

MEP CONSULTANT:

**JERS CONSULTANCY (PVT) LTD**  
 24-Civic Centre Commercial Area, Ferozpur, Lahore, Punjab, Pakistan  
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 Fax: +92-30011312  
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 Web: www.jers.com.pk

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 35702505 - FAX: 35702400  
 EMAIL: IAA@IAACONSULTANCY.COM

CLIENT

PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

PACKAGE

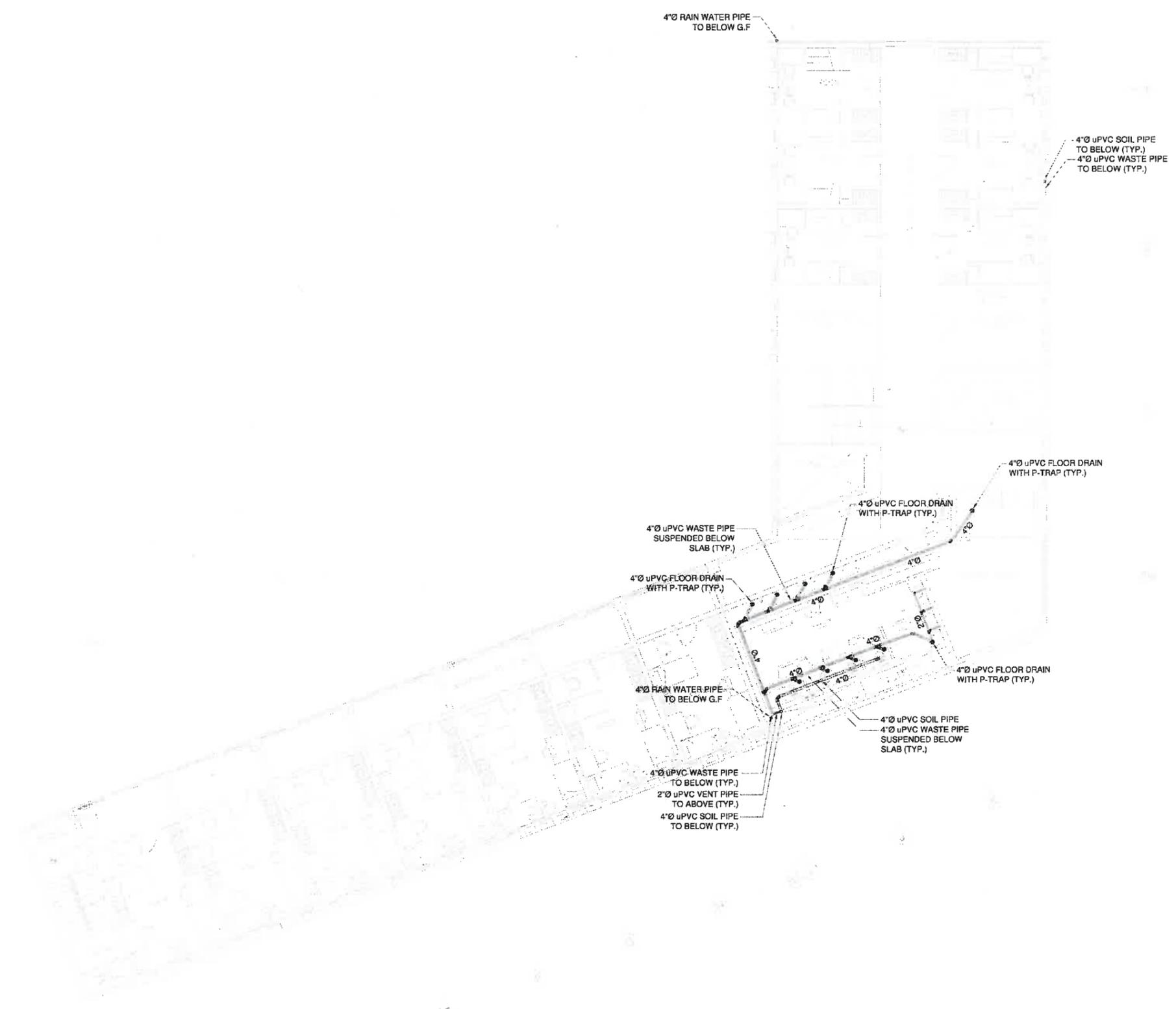
TITLE

SEWER SYSTEM LAYOUT PLAN  
THIRD FLOOR PLAN

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@A2 N.T.S
PROJECT NO.	-

DRAWING NO.	S-04
-------------	------

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 35870259 - FAX: 35753488  
 E-MAIL: iaa@iaaconsultancy.com

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PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

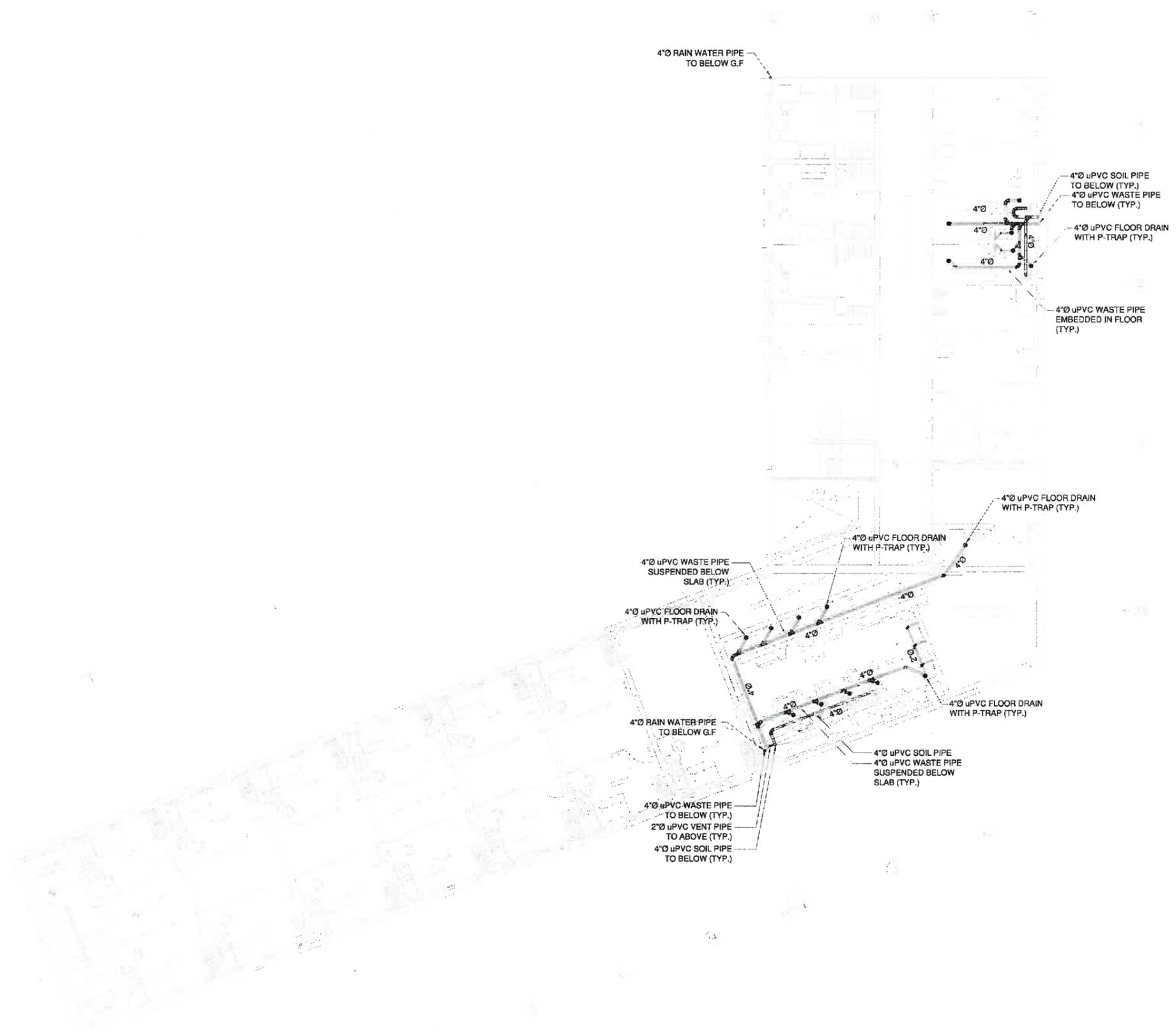
PACKAGE

TITLE  
**SEWER SYSTEM LAYOUT PLAN FOURTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

UNAWARDED PILL S-05

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer would be notified immediately in any discrepancy.



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 Fax: +92-352-111122  
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 35702650 - FAX: 35713210  
 EMAIL: MAIL@IAAONLINE.COM

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PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

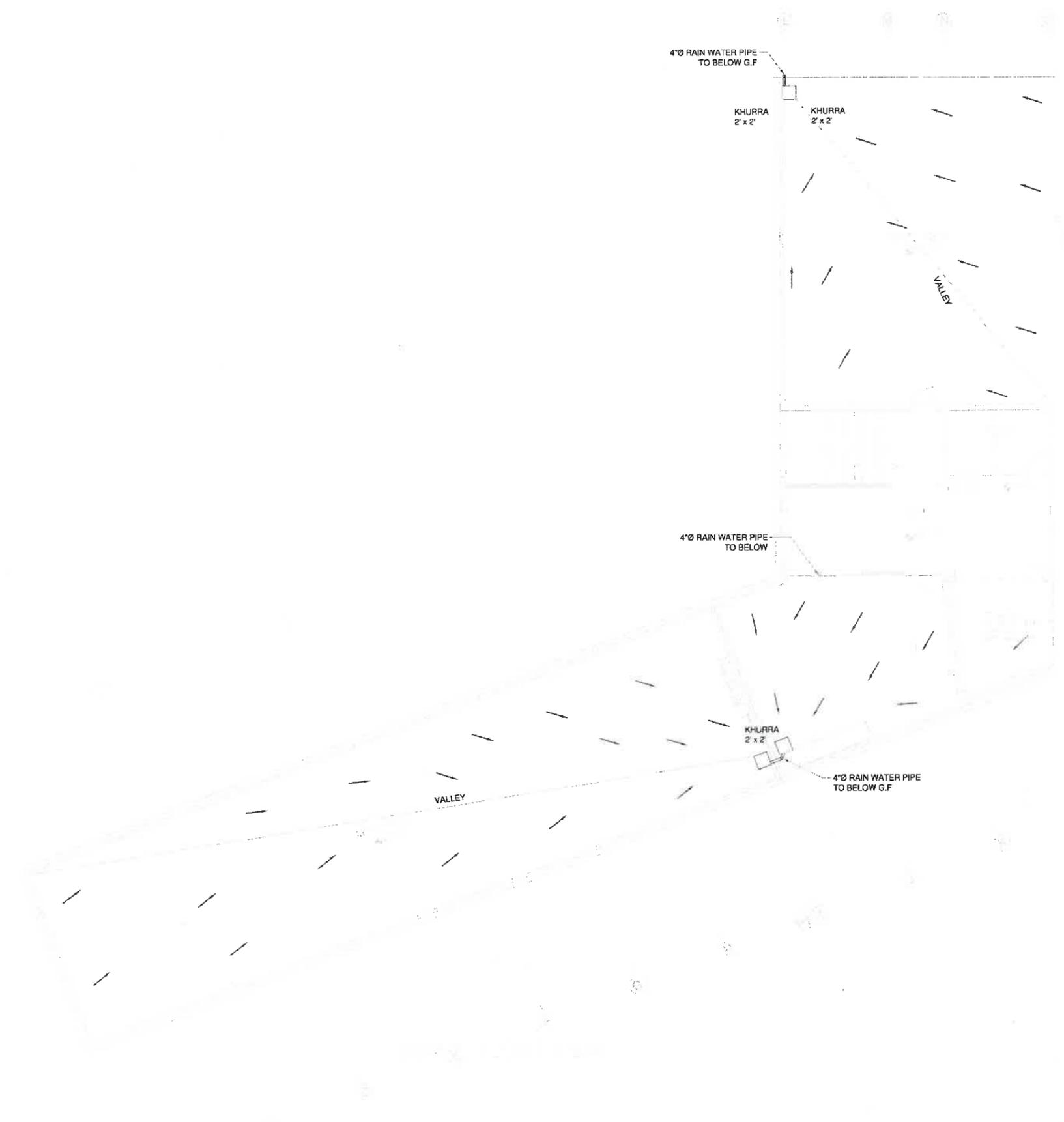
TITLE  
**SEWER SYSTEM LAYOUT PLAN FIFTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. **S-06**

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07/10/2021



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 25872229 - FAX: 35958486  
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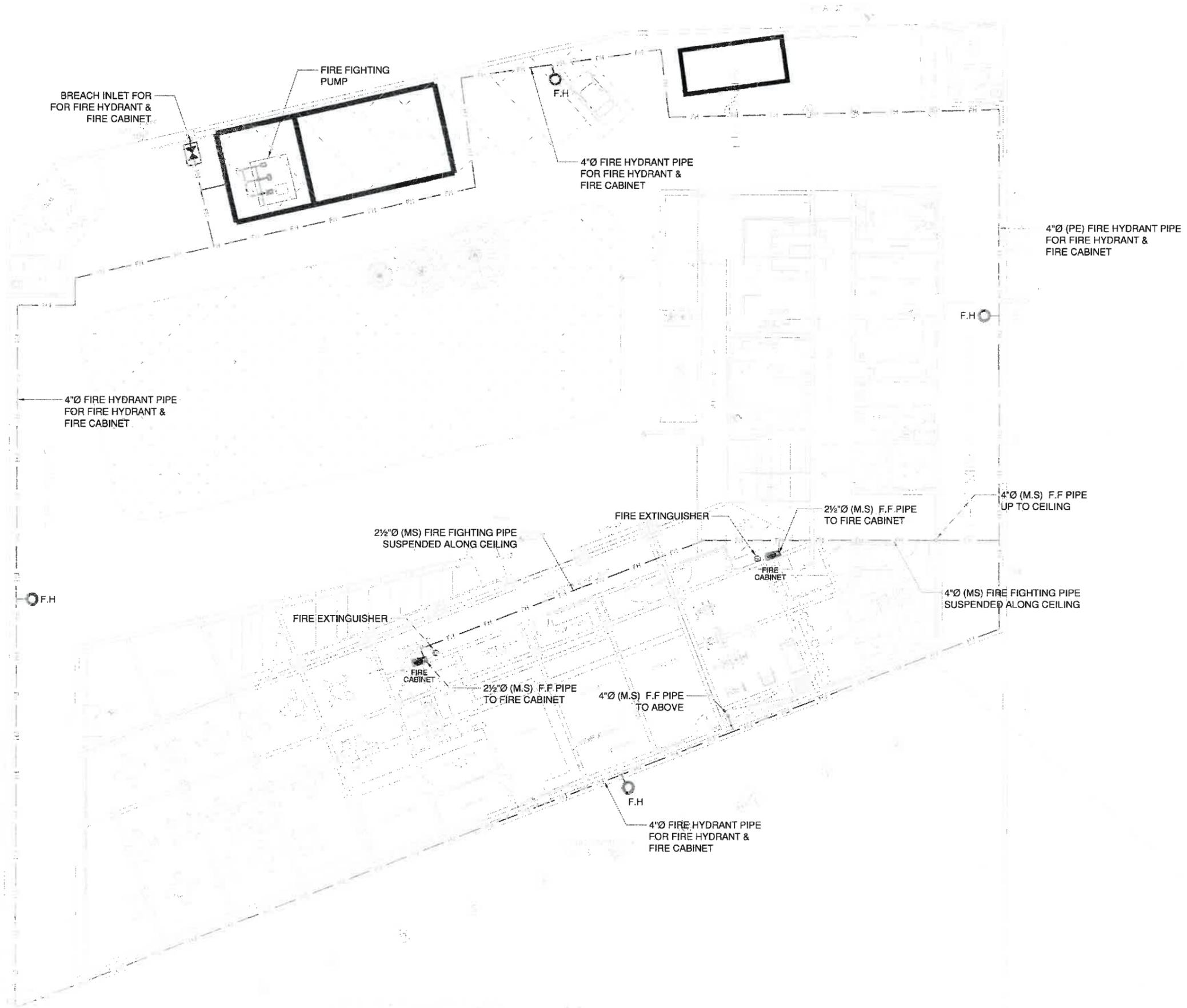
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
TITLE  
**SEWER SYSTEM LAYOUT PLAN ROOF FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	@A3 N.T.S
PROJECT NO.	

DRAWING NO. **S-07**

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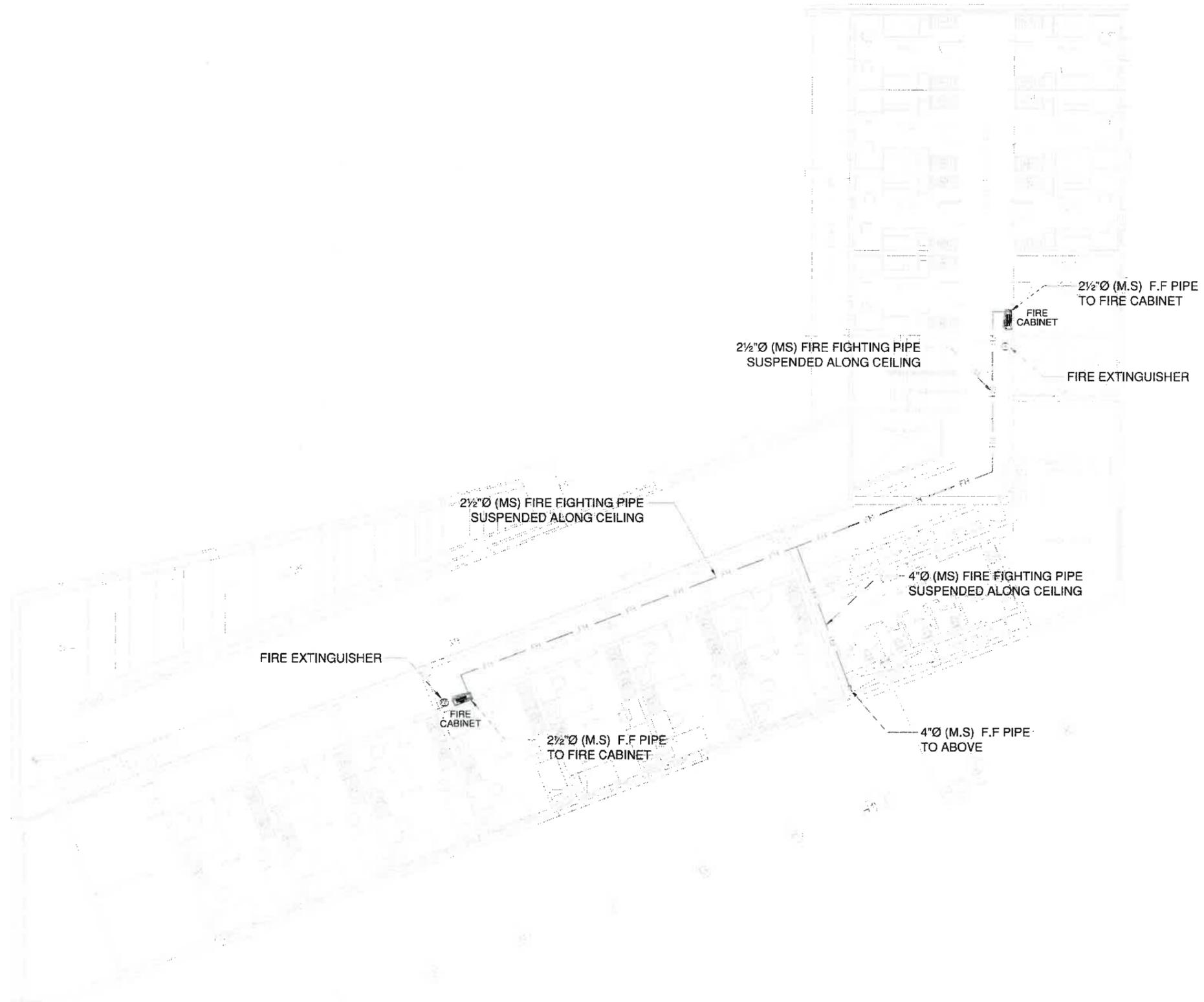
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**FIRE FIGHTING SYSTEM GROUND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	F-01

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



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**JERS CONSULTANCY (PVT) LTD**  
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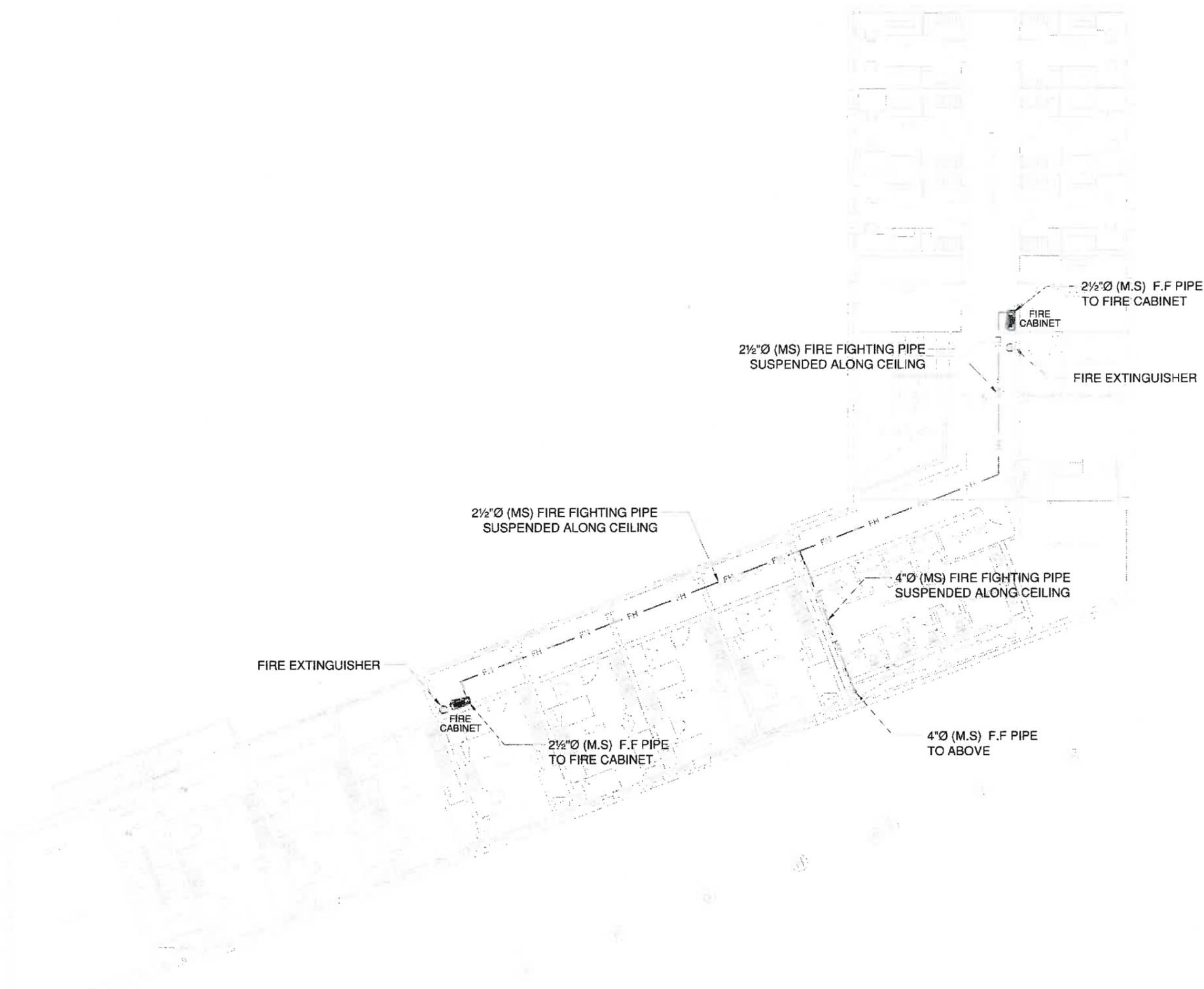
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**FIRE FIGHTING SYSTEM FIRST FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	F-02

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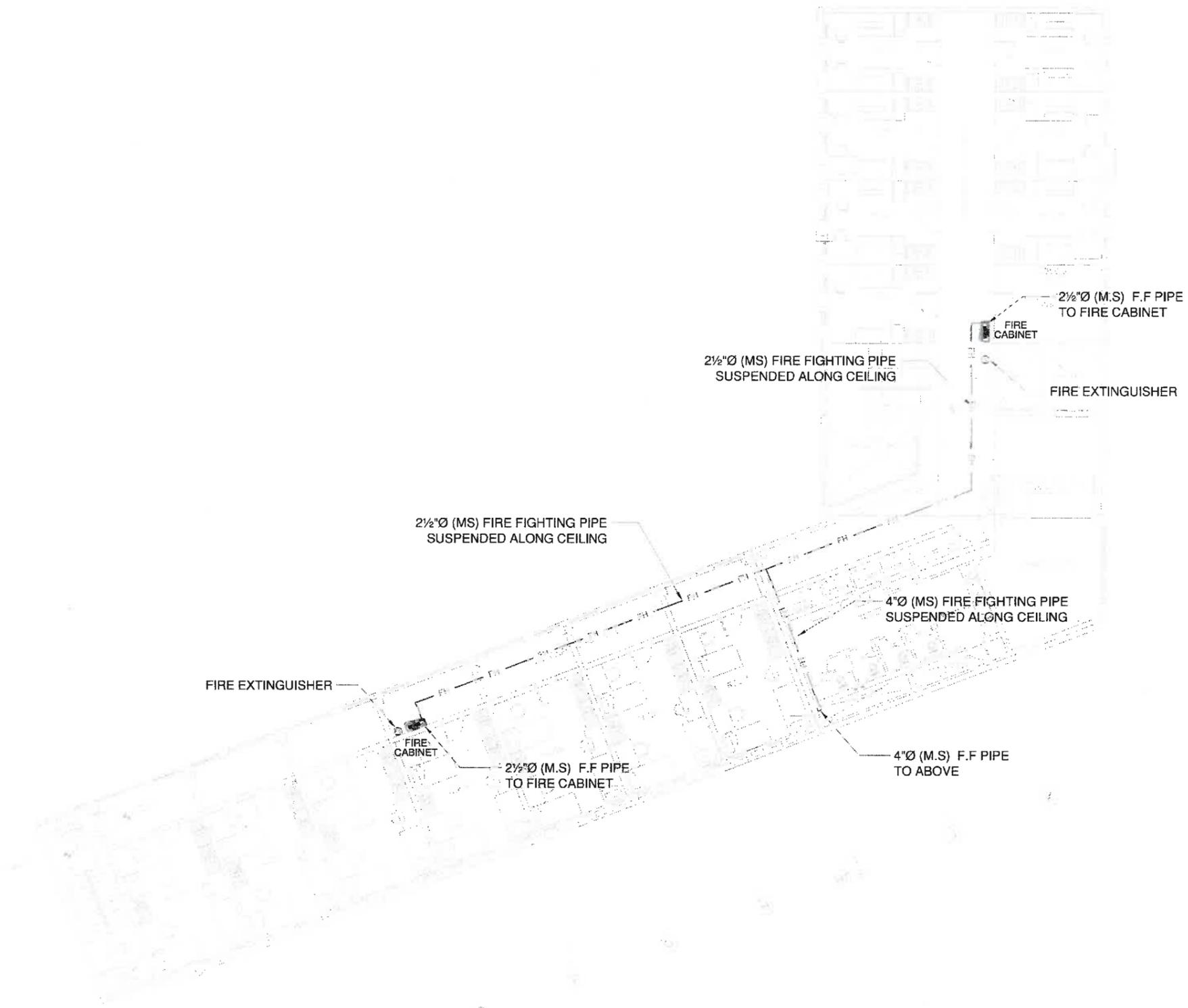
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**FIRE FIGHTING SYSTEM SECOND FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	-

ISHAHARU PNL  
 F-03

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and noted on site before commencing any work or producing shop drawings. The contractor should be notified immediately of any discrepancy.



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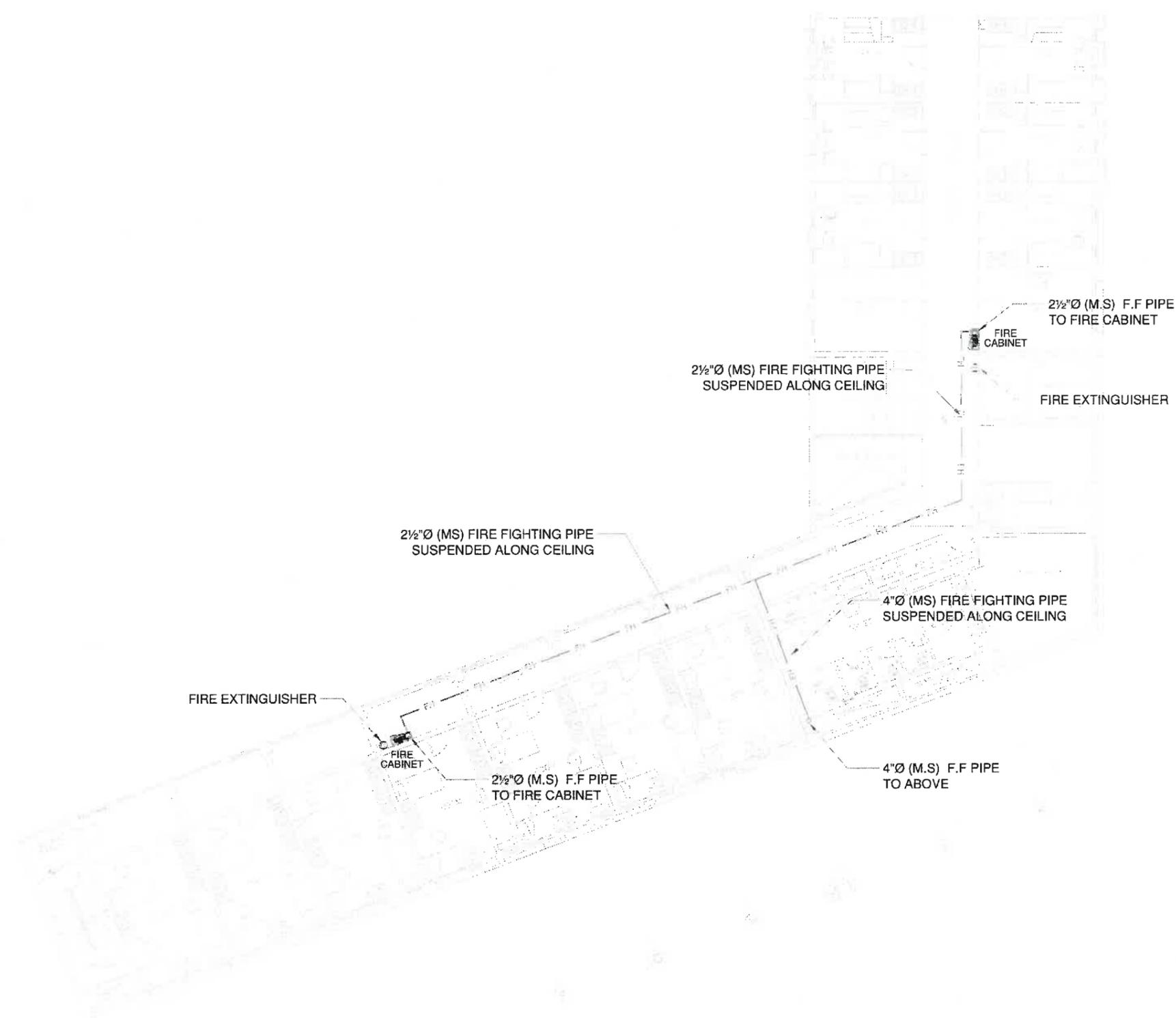
PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE:

TITLE:  
**FIRE FIGHTING SYSTEM  
 THIRD FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	F-04

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 2007-A-1 UPPER HALL, LAHORE  
 TEL: 3597 188 15 - 3597 68 88  
 3597 68 88 - 3597 68 88  
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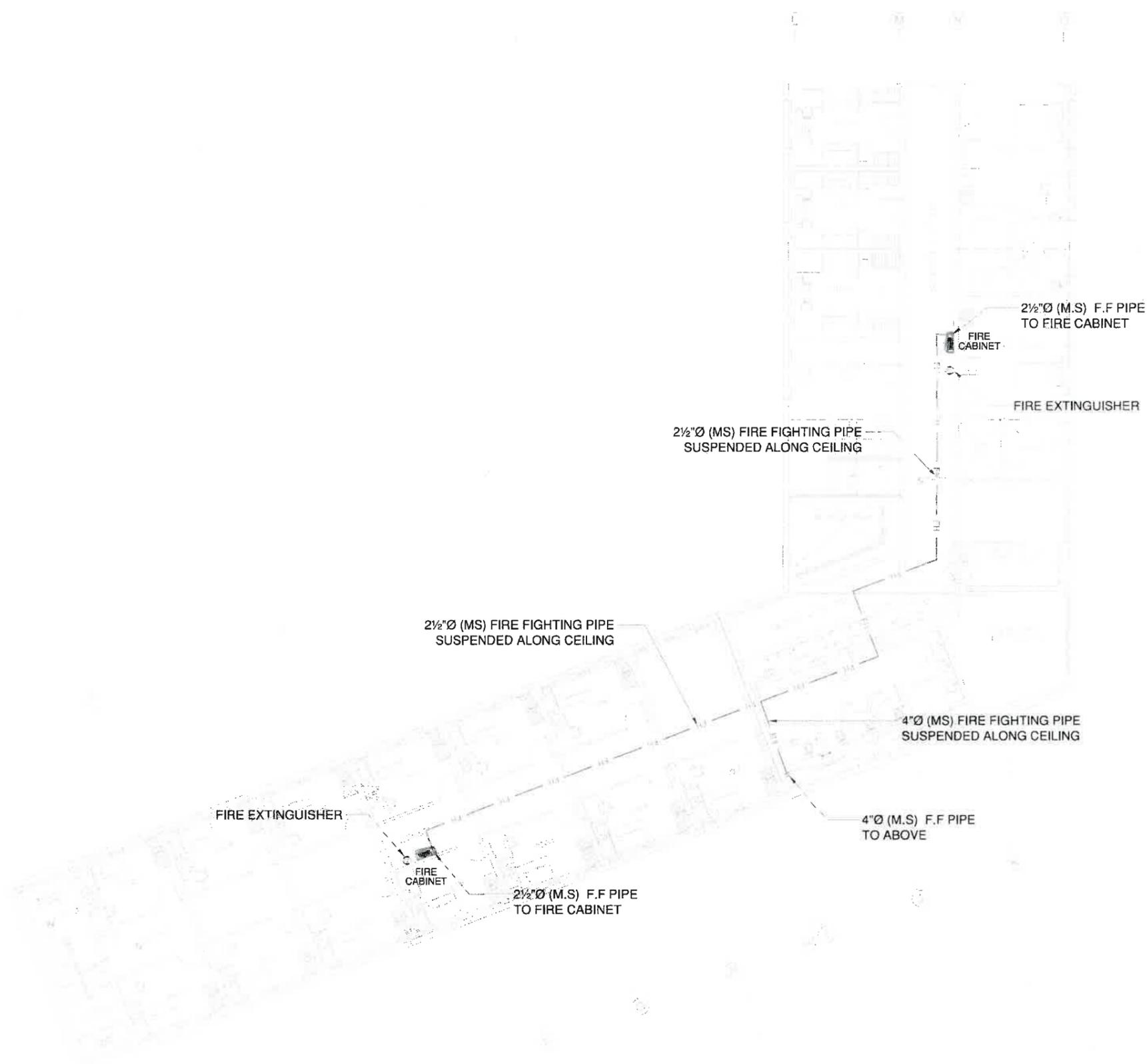
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**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**FIRE FIGHTING SYSTEM FOURTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	F-05

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 20870200 - 4848 2775/6438  
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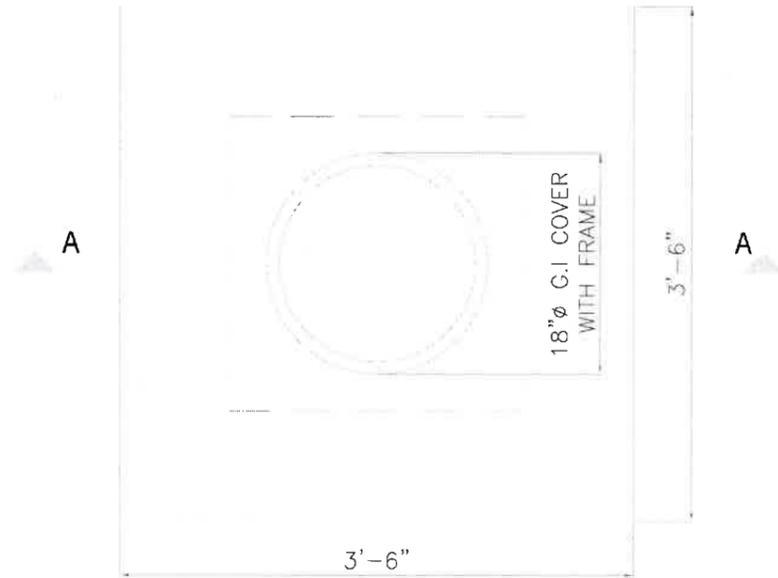
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

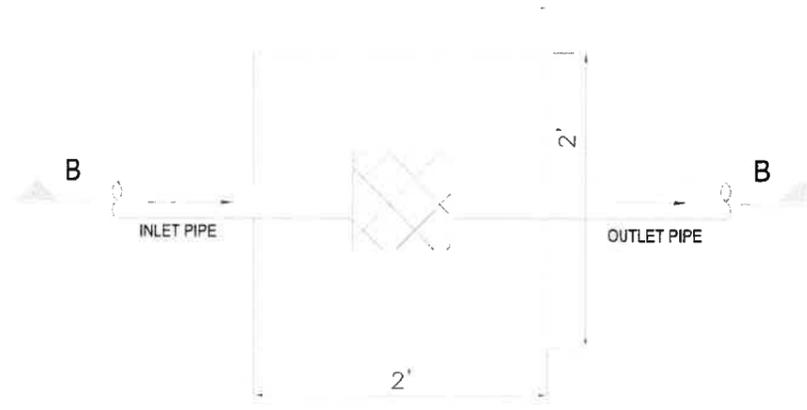
TITLE  
**FIRE FIGHTING SYSTEM FIFTH FLOOR PLAN**

DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	F-06

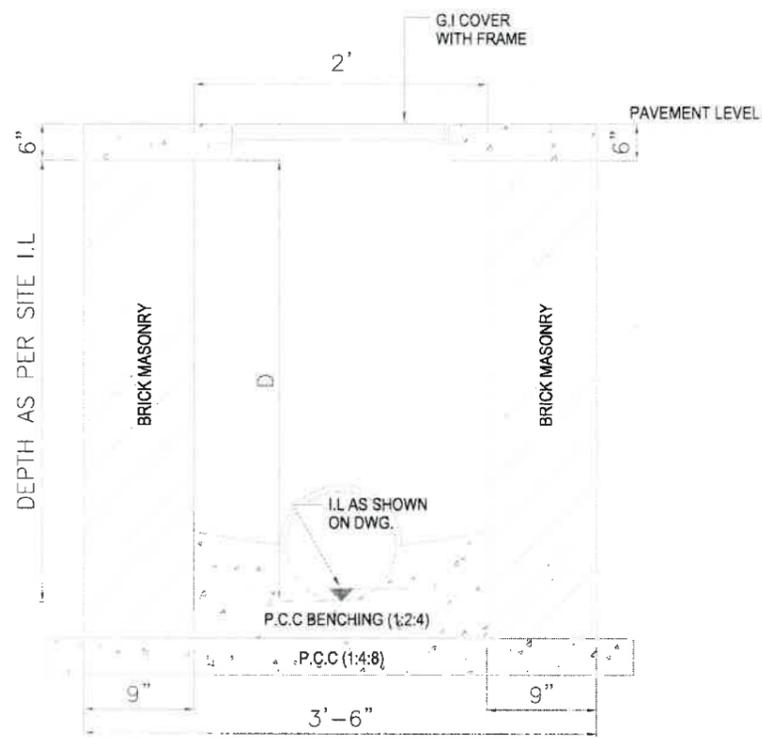
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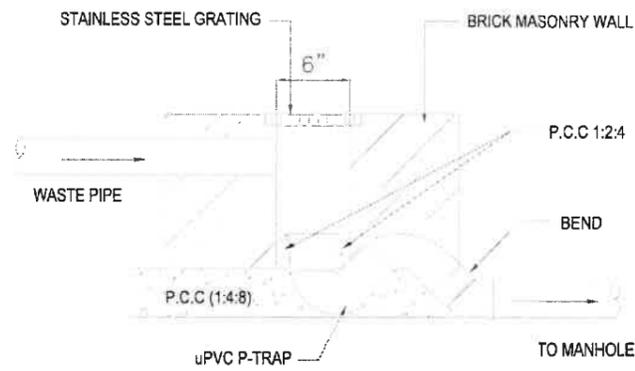
**PLAN  
TYPICAL SEWER MANHOLE**



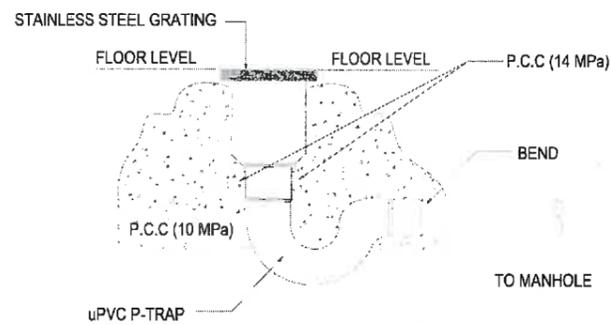
**PLAN  
GULLY TRAP**



**SECTION A-A**



**SECTION B-B**



**P-TRAP DETAIL**

**JERS CONSULTANCY (PVT) LTD**  
 24-C/2, Canal Chowk, Near Town Hall, Lahore, Pakistan  
 Phone: +92-42-3511312, 3511313  
 Fax: +92-42-3511314  
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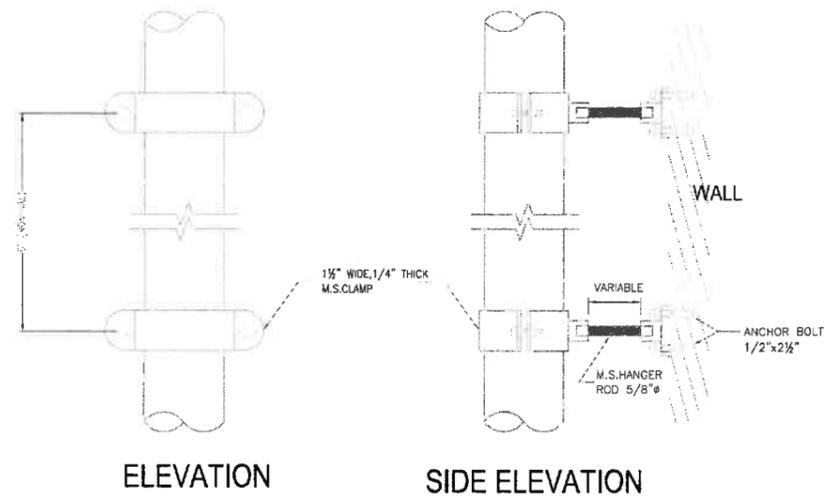
**CLIENT**  
 PAKISTAN INSTITUTE OF FASHION AND DESIGN

**PROJECT**  
 PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

**PACKAGE**  
 TITLE  
 MISC. DETAIL -01

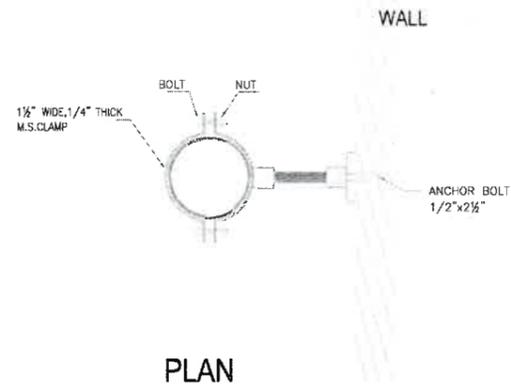
DATE	APRIL-2021
DRAWN BY	MURTAZA
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	M-01

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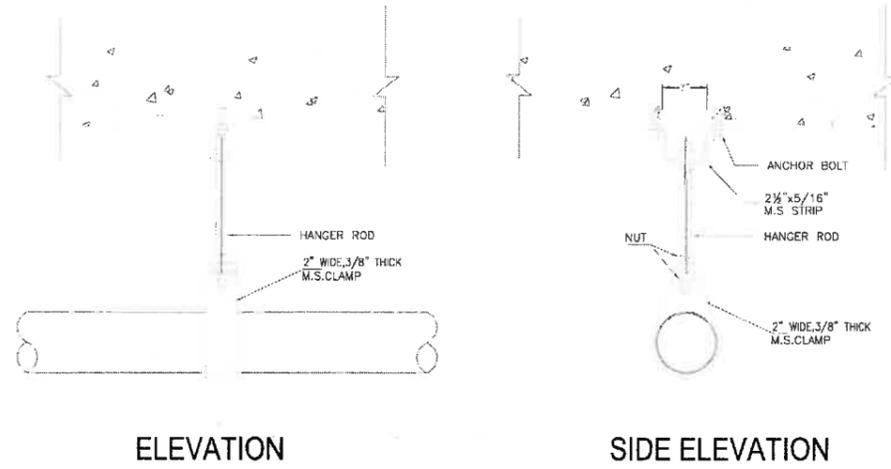
ELEVATION

SIDE ELEVATION



PLAN

**VERTICAL PIPE HANGERS ( UP TO 4"Ø PIPE )**

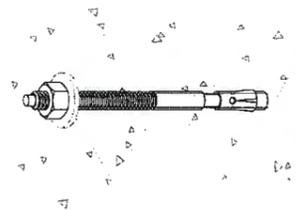


ELEVATION

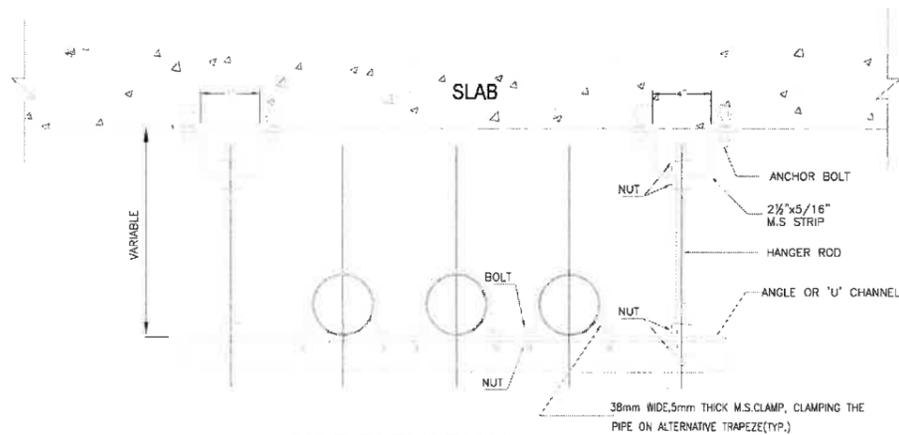
SIDE ELEVATION

**HORIZONTAL PIPE HANGER**

PIPE SIZE	MAX. SPACING	HANGER ROD Ø	ANCHOR BOLT
3/4" — 2"	5'-0"	1/2"	1/2" x 2 1/2"
2 1/2" — 3"	6'-0"	5/8"	1/2" x 2 1/2"
4" — 6"	6'-0"	3/4"	5/8" x 3"



ANCHOR BOLT  
SEISMICALLY RATED WEDGE  
ANCHOR BOLT



SIDE ELEVATION

**HORIZONTAL PIPE HANGER (TRAPEZE)**

PIPE SUPPORT SCHEDULE

PIPE SIZE	HANGER ROD Ø	ANGLE SIZE	U-CHANNEL	SPACING	ANCHOR BOLT
1/2 TO 3/4"	3/8"	1 1/2"x1 1/2"x3/16"	—	5'	1/2" x 2 1/2"
1" TO 1 1/4"	3/8"	2"x2"x1/4"	—	5'	1/2" x 2 1/2"
1 1/2" TO 2 1/2"	1/2"	2 1/2"x2 1/2"x1/4"	—	6'	1/2" x 2 1/2"
3" TO 4"	1/2"	2 1/2"x2 1/2"x3/8"	—	6'	5/8" x 3"
5"	3/4"	3"x3"x3/8"	—	6'	3/4" x 4"
6"	1"	—	3"x1 1/2"x1/4"	7'	3/4" x 4"
8"	1"	—	4"x1 1/4"x5/16"	7'	3/4" x 4"
10"	1"	—	4"x1 1/4"x5/16"	7'	3/4" x 4"
12"	1 1/4"	—	4"x1 1/4"x5/16"	7'	3/4" x 4"

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FAX: 35714838  
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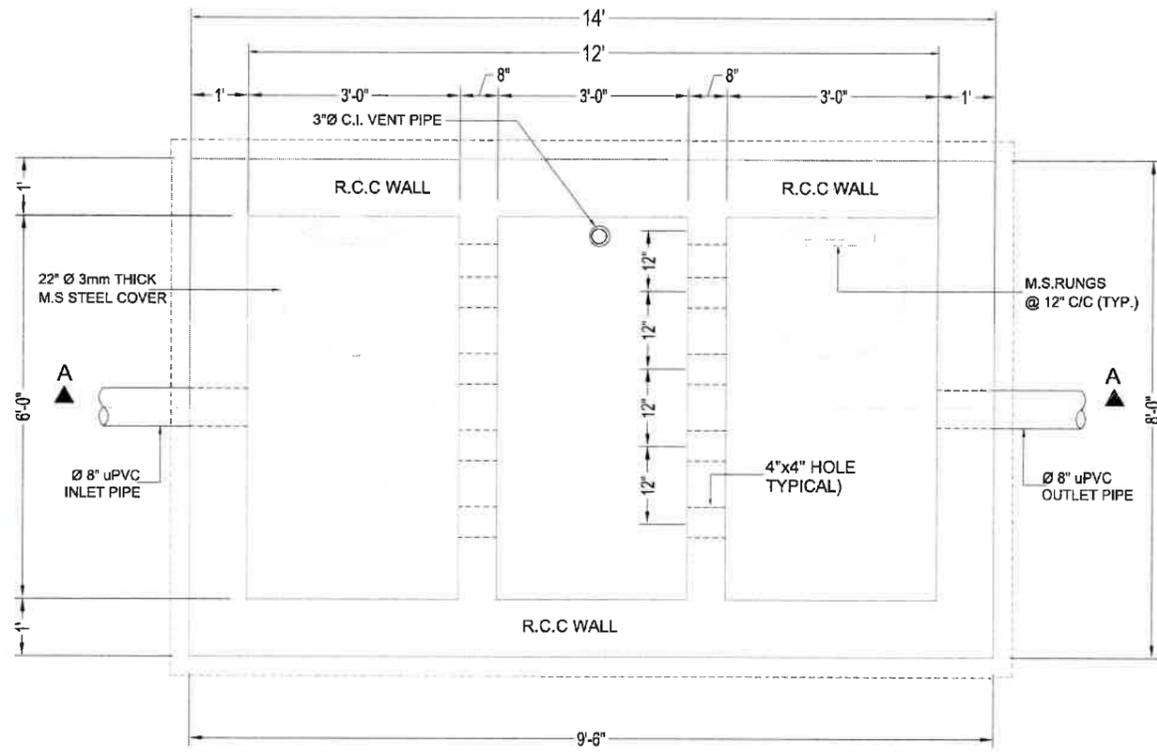
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
TITLE  
**MISC.DETAIL -01**

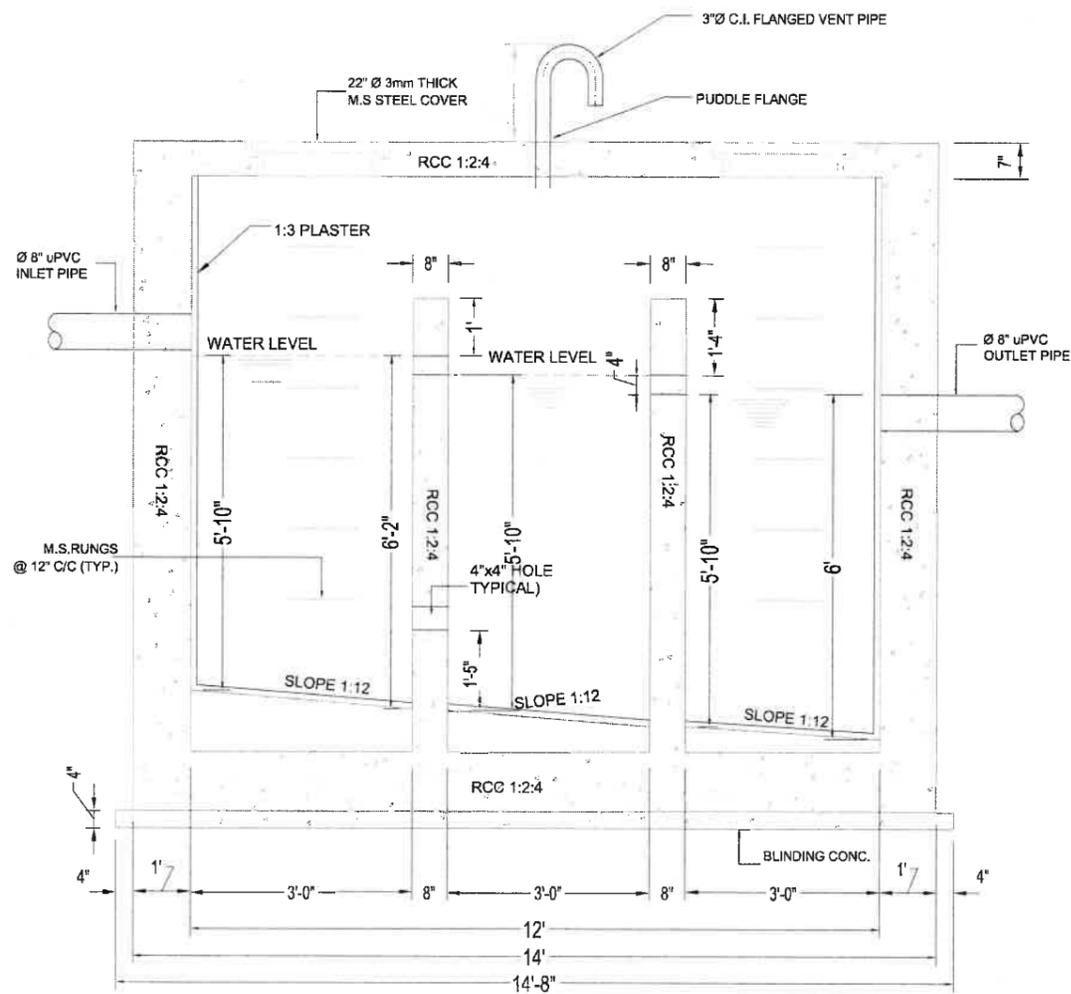
DATE | APRIL-2021  
DRAWN BY | MURTAZA  
SCALE | @AS | N.T.S

PROJECT NO. |  
DRAWING NO. | **M-02**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original must be retained immediately in any discrepancy.



**PLAN**  
**SEPTIC TANK**  
**SIZE = 12' x 6'**



**SECTION A-A**

**JERS CONSULTANCY (PVT) LTD**  
25-246, Center Commercial Area, Tarnali, Lahore, Pakistan  
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 35870259 - FAX: 35702428  
 E-MAIL: IAA@IAAENGINEERS.COM

**CLIENT**  
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**PROJECT**  
PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

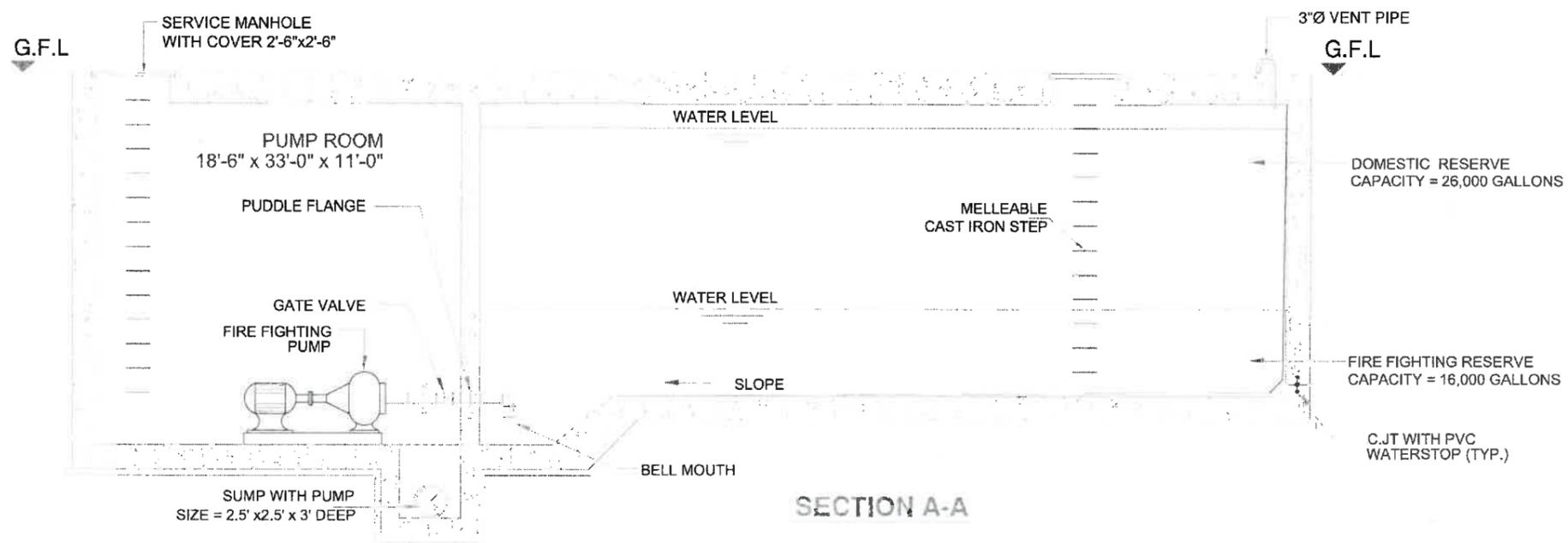
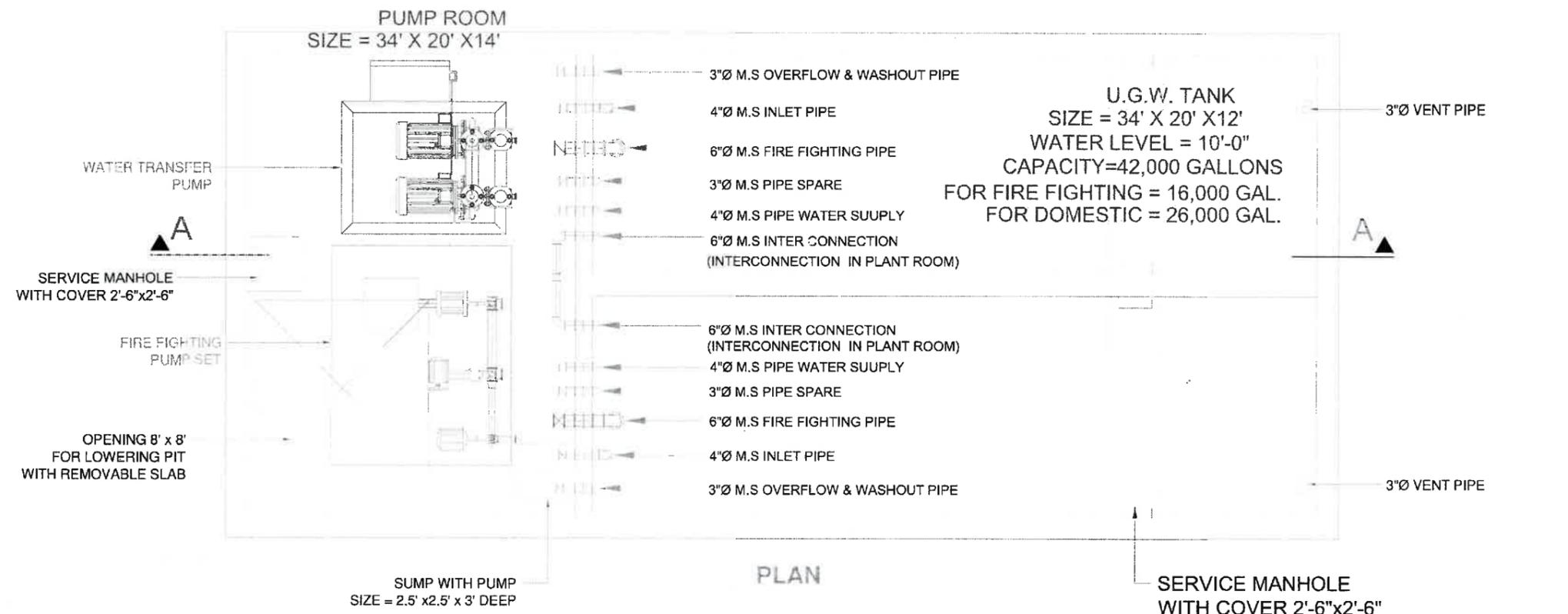
**PACKAGE**

**TITLE**  
DETAIL OF SEPTIC TANK

**DATE** APRIL-2021  
**DRAWN BY** MURTAZA  
**SCALE** N.T.S  
**PROJECT NO.**

**DRAWING NO.** M-03

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.



MEP CONSULTANT:



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CLIENT

PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

PACKAGE

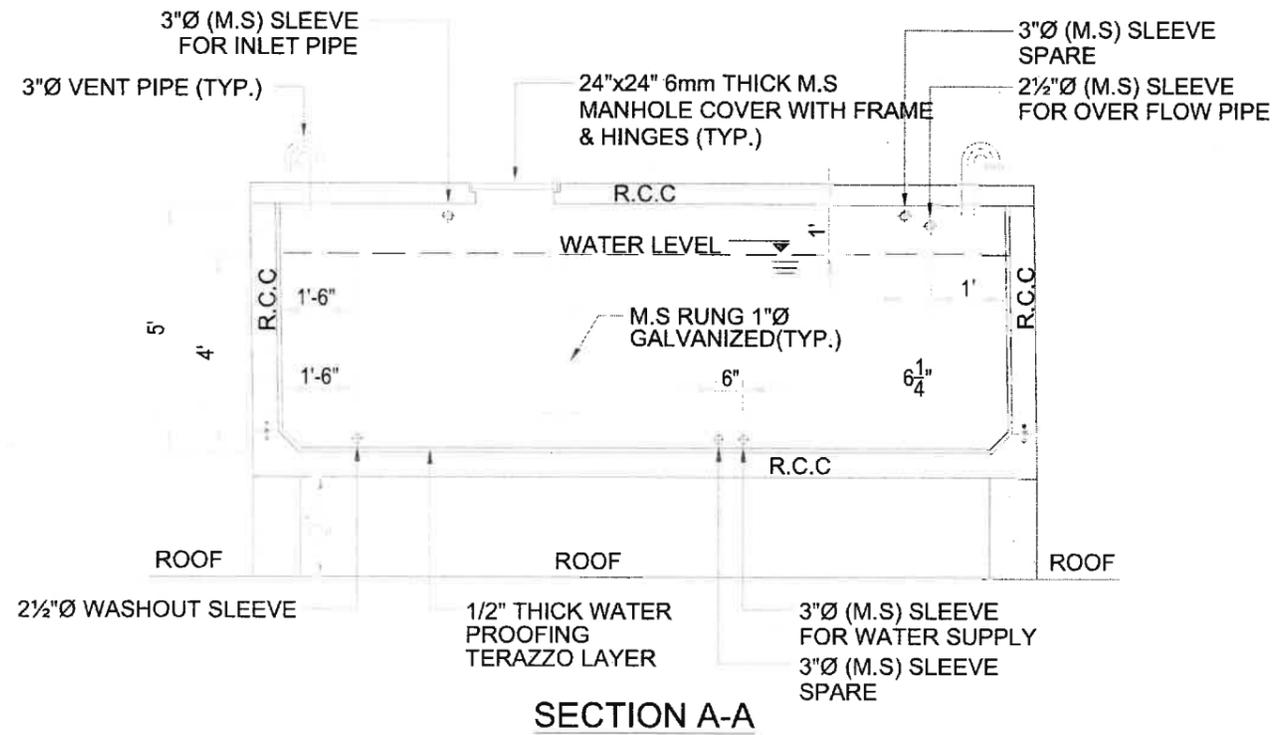
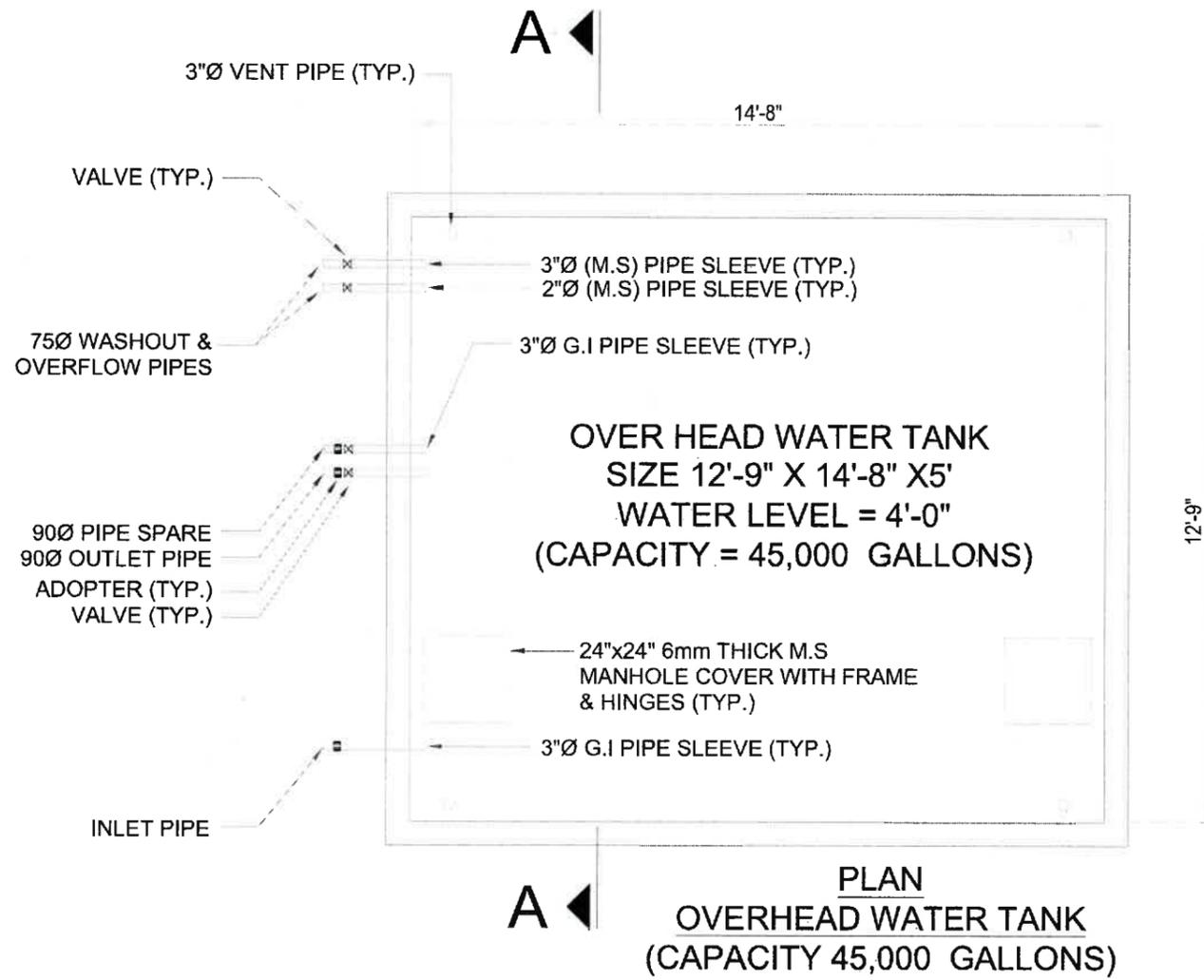
TITLE

UNDER GROUND WATER TANK

DATE: APRIL-2021  
DRAWN BY: MURTAZA  
SCALE: N.T.S  
PROJECT NO.:

DRAWING NO. M-04

This drawing is to be used in conjunction with all other drawings. Do not  
scale from this drawing. All dimensions must be checked and verified on site  
before commencing any work or proceeding any drawings. The obligator  
should be notified immediately of any discrepancy.



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CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFI AT JOHAR TOWN, LAHO**

PACKAGE:

TITLE:  
**DETAIL OF OVER HEAD WATER TAN**

DATE	APRIL-20
DRAWN BY	MURTAZ
SCALE	@A2 N.T.S
PROJECT NO.	
DRAWING NO.	M-05

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work to prevent any overruns. The contractor should be notified immediately of any discrepancy.

**PROPOSED DESIGN FOR FEMALE HOSTEL,  
PIFD AT JOHAR TOWN, LAHORE.  
LIST OF DRAWINGS**

**ELECTRICAL DRAWINGS**

1	LEGEND & NOTES	E - 00	29	TELEPHONE & DATA LAYOUT PLAN (GROUND FLOOR)	E - 26
2	LIGHTING LAYOUT PLAN (GROUND FLOOR)	E - 01	30	TELEPHONE & DATA LAYOUT PLAN (FIRST FLOOR)	E - 27
3	LIGHTING LAYOUT PLAN (FIRST FLOOR)	E - 02	31	TELEPHONE & DATA LAYOUT PLAN (SECOND FLOOR)	E - 28
4	LIGHTING LAYOUT PLAN (SECOND FLOOR)	E - 03	32	TELEPHONE & DATA LAYOUT PLAN (THIRD FLOOR)	E - 29
5	LIGHTING LAYOUT PLAN (THIRD FLOOR)	E - 04	33	TELEPHONE & DATA LAYOUT PLAN (FOURTH FLOOR)	E - 30
6	LIGHTING LAYOUT PLAN (FOURTH FLOOR)	E - 05	34	TELEPHONE & DATA LAYOUT PLAN (FIFTH FLOOR)	E - 31
7	LIGHTING LAYOUT PLAN (FIFTH FLOOR)	E - 06	35	LIGHTNING PROTECTION LAYOUT PLAN (GROUND FLOOR)	E - 32
8	LIGHTING LAYOUT PLAN (MUMTY FLOOR PLAN)	E - 07	36	LIGHTNING PROTECTION LAYOUT PLAN (TOP ROOF)	E - 33
9	SMALL POWER & CABLE ROUTE LAYOUT PLAN (GROUND FLOOR)	E - 08	37	LIGHTNING PROTECTION MISCELLANEOUS DETAILS	E - 34
10	SMALL POWER & CABLE ROUTE LAYOUT (MASTER PLAN)	E - 08A	38	LIGHTING LAYOUT (MASTER PLAN)	EXT - 01
11	SMALL POWER & CABLE ROUTE LAYOUT PLAN (FIRST FLOOR)	E - 09	39	LIGHTING LAYOUT PLAN GUARD ROOM 1 & 2	EXT - 02
12	SMALL POWER & CABLE ROUTE LAYOUT PLAN (SECOND FLOOR)	E - 10	40	SINGLE LINE DIAGRAM OF:- MAIN PANEL BOARD (MPB-GF)	SLD - 01
13	SMALL POWER & CABLE ROUTE LAYOUT PLAN (THIRD FLOOR)	E - 11	41	SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)	SLD - 02
14	SMALL POWER & CABLE ROUTE LAYOUT PLAN (FOURTH FLOOR)	E - 12	42	SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)	SLD - 03
15	SMALL POWER & CABLE ROUTE LAYOUT PLAN (FIFTH FLOOR)	E - 13	43	SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)	SLD - 04
16	AIR CONDITIONING LAYOUT PLAN (GROUND FLOOR)	E - 14	44	SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)	SLD - 05
17	AIR CONDITIONING LAYOUT PLAN (FIRST FLOOR)	E - 15	45	LIGHTS & FAN FIXING DETAILS	EM - 01
18	AIR CONDITIONING LAYOUT PLAN (SECOND FLOOR)	E - 16	46	STANDARD SWITCH BOARD, LIGHT PLUG, POWER PLUG, TV, TELEPHONE & DATA OUTLETS FIXING DETAIL	EM - 02
19	AIR CONDITIONING LAYOUT PLAN (THIRD FLOOR)	E - 17	47	STANDARD DISTRIBUTION BOARD	EM - 03
20	AIR CONDITIONING LAYOUT PLAN (FOURTH FLOOR)	E - 18	48	STANDARD CABLE TRAY FIXING DETAIL	EM - 04
21	AIR CONDITIONING LAYOUT PLAN (FIFTH FLOOR)	E - 19	49	FIRE ALARM FIXING DETAIL	EM - 05
22	CCTV & FIRE ALARM LAYOUT PLAN (GROUND FLOOR)	E - 20			
23	CCTV LAYOUT (MASTER PLAN)	E - 20A			
24	CCTV & FIRE ALARM LAYOUT PLAN (FIRST FLOOR)	E - 21			
25	CCTV & FIRE ALARM LAYOUT PLAN (SECOND FLOOR)	E - 22			
26	CCTV & FIRE ALARM LAYOUT PLAN (THIRD FLOOR)	E - 23			
27	CCTV & FIRE ALARM LAYOUT PLAN (FOURTH FLOOR)	E - 24			
28	CCTV & FIRE ALARM LAYOUT PLAN (FIFTH FLOOR)	E - 25			

LEGEND

1 LIGHT FITTINGS & FIXTURES

S.NO	SYMBOLS	DESCRIPTION	MAKE	MOUNTING HEIGHT
1	[Symbol]	FLUORESCENT LIGHT FIXTURE (2000 LUMENS 2 W LFT)	PHILIPS	AT WALL 1.80 M FROM FFL
2	[Symbol]	FLUORESCENT LIGHT FIXTURE (4000 LUMENS 2 W LFT)	PHILIPS	AT WALL 1.80 M FROM FFL
3	[Symbol]	FLUORESCENT TUBE LIGHT		CEILING MOUNTED
4	[Symbol]	FLUORESCENT LIGHT FIXTURE (4000 LUMENS 2 W LFT)	PHILIPS	UNDER SHELF
5	[Symbol]	EXTRUDOR LIGHT WITH 5 W LED SAFETY BACK	PHILIPS	AT WALL 1.80 M FROM FFL
6	[Symbol]	RECESSED DOWN LIGHT MODEL (SPECIAL DIMENSION) LED DOWN LIGHT	PHILIPS	RECESSED
7	[Symbol]	3.5 WATT RECESSED DOWN LIGHT GENERAL DIMENSION LED DOWN LIGHT	PHILIPS	RECESSED
8	[Symbol]	5 WATT RECESSED DOWN LIGHT GENERAL DIMENSION LED DOWN LIGHT	PHILIPS	RECESSED
9	[Symbol]	OUTDOOR WALL BRACKET LIGHT MODEL (SPECIAL DIMENSION) 10 WATT LED LAMP	PHILIPS	AT WALL 1.80 M FROM FFL
10	[Symbol]	OUTDOOR WALL BRACKET LIGHT MODEL (SPECIAL DIMENSION) 10 WATT LED LAMP	PHILIPS	AT WALL 1.80 M FROM FFL
11	[Symbol]	OUTDOOR WALL BRACKET LIGHT MODEL (SPECIAL DIMENSION) 10 WATT LED LAMP	PHILIPS	AT WALL 1.80 M FROM FFL
12	[Symbol]	OUTDOOR WALL BRACKET LIGHT MODEL (SPECIAL DIMENSION) 10 WATT LED LAMP	PHILIPS	AT WALL 1.80 M FROM FFL
13	[Symbol]	OUTDOOR WALL BRACKET LIGHT MODEL (SPECIAL DIMENSION) 10 WATT LED LAMP	PHILIPS	AT WALL 1.80 M FROM FFL

2 WIRING ACCESSORIES

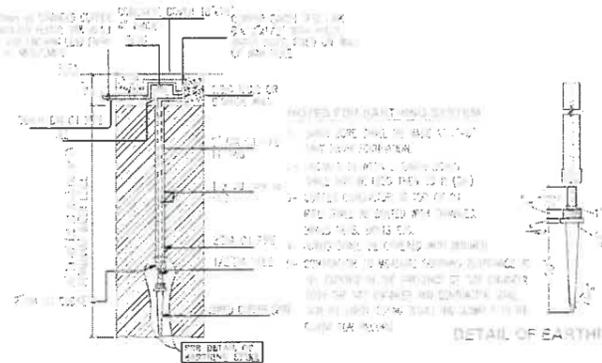
S.NO	SYMBOLS	DESCRIPTION	MAKE	MOUNTING HEIGHT
1	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
2	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
3	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
4	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
5	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
6	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
7	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
8	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
9	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
10	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
11	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
12	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
13	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL
14	[Symbol]	2000 VOLT SWITCH BOARD (INDICATE NUMBER OF CIRCUIT & WIRE SIZE)	PHILIPS	AT WALL 1.80 M FROM FFL

3 TELEPHONE, DATA, CCTV, FIRE ALARM & TV SYSTEMS

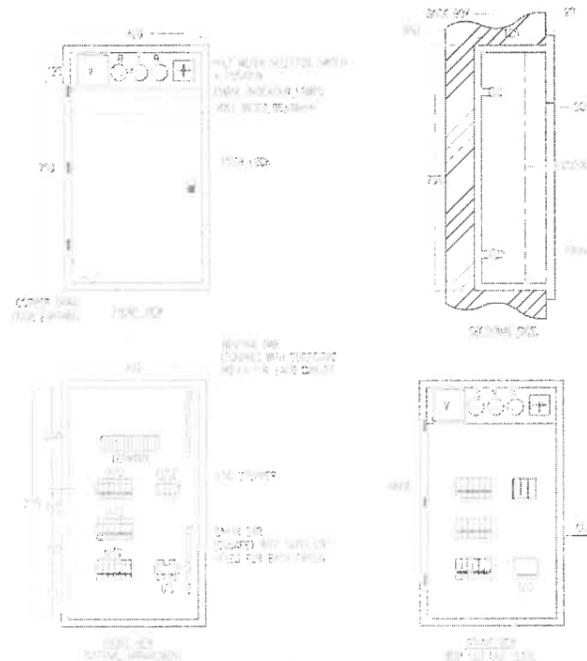
S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1	[Symbol]	TELEPHONE UNIT (P-11)	AT WALL 1.80 M FROM FFL
2	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
3	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
4	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
5	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
6	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
7	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
8	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
9	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
10	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
11	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
12	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
13	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
14	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
15	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL
16	[Symbol]	DATA NETWORKING OUTLET (P-11)	AT WALL 1.80 M FROM FFL

CAPACITY OF CONDUITS

CONDUIT DIA (mm)	NO. OF WIRES (1.5mm dia)	NO. OF WIRES (2.0mm dia)	NO. OF WIRES (2.5mm dia)	NO. OF WIRES (3.0mm dia)	NO. OF WIRES (4.0mm dia)	NO. OF WIRES (5.0mm dia)
12	1	1	1	1	1	1
16	2	2	2	2	2	2
20	3	3	3	3	3	3
25	4	4	4	4	4	4
32	6	6	6	6	6	6
40	8	8	8	8	8	8
50	12	12	12	12	12	12
63	18	18	18	18	18	18
75	24	24	24	24	24	24
90	36	36	36	36	36	36
110	48	48	48	48	48	48



TENTATIVE CONSTRUCTIONAL DETAIL OF DISTRIBUTION BOARD (DB) RECESSED TYPE.



NOTE:- DIMENSIONS SHOWN ARE INDICATIVE ONLY AND NOT NECESSARILY TO BE FOLLOWED. HOWEVER, ACTUAL DIMENSIONS OF DB SHALL BE TAKEN BY DB MANUFACTURER'S CATALOGUE.

GENERAL NOTES:-

- LEGEND:** REFER TO LEGEND FOR THESE SYMBOLS. ONLY MENTIONED ON ALL LAYOUT PLANS. OTHER SYMBOLS SHOWN IN LEGEND BUT NOT ACTUALLY SHOWN ON LAYOUT DRAWINGS MAY BE IGNORED.
- ELECTRICAL WORKS:** THE FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS ALL ELECTRICAL WORKS PERTAINING TO WIRING OF ELECTRICAL SYSTEMS SHALL STRICTLY CONFORM TO THE LATEST EDITION OF RULES & REGULATIONS.
- PLUMBING DRAWINGS:** ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BQ, ELECTRICAL SPECIFICATIONS AND IN CO-ORDINATION WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS.
- DIMENSIONS OF ELECTRICAL INSTALLATIONS:** ALL DIMENSIONS IF SHOWN ON THE ELECTRICAL LAYOUT PLANS ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO DO ALL NECESSARY CALCULATIONS TO VERIFY AT THE SITE.
- WORKING DIMENSIONS:** WORKING DIMENSIONS IS CO-ORDINATION WITH ALL OTHER RELEVANT DRAWINGS OF OTHER SERVICES.
- SHORT CIRCUIT:** THE ELECTRICAL CONTRACTOR SHALL PROVIDE PROTECTION AGAINST SHORT CIRCUIT AND OVERCURRENT PROTECTION. THE SHORT CIRCUIT PROTECTION SHALL BE PROVIDED TO ALL ELECTRICAL WORKS INCLUDING THE COMMUNICATIONS OF ALL WORKS AT SITE.
- GROUNDING:** THE ELECTRICAL CONTRACTOR SHALL DO ALL NECESSARY CO-ORDINATION OF ELECTRICAL WORKS AND ALLIED SYSTEMS WITH ALL OTHER SERVICES AT SITE.
- BALANCING OF LOADS ON ALL 3 PHASES:** ELECTRICAL LOADS ON ALL 3 PHASES SHALL BE BALANCED ON THE LINE OF TESTING AND COMMISSIONING OF THE ELECTRICAL INSTALLATIONS.
- ELECTRICAL WORKS:** ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN WALLS, FLOORS AND CEILING OR AS SHOWN ON DRAWINGS.
- THE WIRING SHOULD BE STARTED ONLY AFTER THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.**
- WIRE CONDUITS:** ALL PVC CONDUIT SHALL BE OF 3/4" OR 1" DIA (DEPENDENT UPON NUMBER OF WIRES) FROM SWITCH BOARD TO LIGHT POINTS & 1" DIA FROM DBs TO SWITCH BOARDS AND POWER SOCKETS OR AS SHOWN ON DRAWINGS.
- LUBRICATION:** NO LUBRICATION EXCEPT AS RECOMMENDED BY MANUFACTURER SHALL BE USED FOR PULLING OF WIRES IN PVC CONDUITS. NO OIL OR ANY KIND SHALL BE USED.
- COLOR CODING:** COLOR CODING FOR WIRING SHALL BE AS FOLLOWS: RED/YELLOW AND BLUE FOR PHASES, BLACK FOR NEUTRAL AND GREEN / YELLOW FOR CPG (EARTH).
- SIZE OF WIRES:** FOLLOWING SIZES OF PVC INSULATED WIRES WITH COPPER CONDUCTORS SHALL BE USED FOR INTERNAL WIRING UNLESS STATED OTHERWISE.
  - 1.5mm sq PVC INSULATED WIRES SHALL BE USED FROM SWITCH BOARD TO LIGHT POINTS AND 2.5mm sq WIRE OR AS SPECIFIED IN B.O.Q.
  - 2.5mm sq PVC INSULATED WIRES SHALL BE USED FROM DB TO SWITCH BOARDS FOR LIGHTING CIRCUITS.
  - 4mm sq OR 6mm sq PVC INSULATED WIRES OR AS SHOWN ON DRAWINGS SHALL BE USED FOR WIRING FROM DB TO POWER SOCKETS.
- BATH SPEARS:** ALL BATH SPEARS FOR SWITCHELS & CONTROL SHALL BE MADE OF GI SHEET 1.5MM OR AS SPECIFIED IN BQ. WITH EARTH TERMINAL. THE END OF BATH SPEAR SHALL CORRESPOND TO THE SIZE OF SWITCH/SPEARS.
- EARTHING OF POINTS:** ALL ELECTRICAL AND POWER POINTS SHALL BE EARTHED TO THE MAIN EARTHING SYSTEM BY THE USE OF THUNDER RODS, TERAS.
- CAPACITY OF CONDUITS:** THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT SHALL BE LIMITED TO THE CAPACITY SHOWN IN THE TABLES & REGULATIONS.
- WIRING IN WALLS:** WIRING SHALL BE DONE IN WALL & IT SHALL BE CONCEALED IN WALL POINTS AND POINTS SHALL BE MINIMUM GENERALIZED WALLS OR AT SPECIFIED IN BQ OR AS SHOWN IN DRAWINGS.
- PROTECTION OF WIRING:** ALL ELECTRICAL WORKS SHALL BE PROTECTED BY CONCRETE IN WALL & CEILING OR BY PLASTER OR AS SHOWN IN DRAWINGS.
- WIRING IN CEILING:** WIRING SHALL BE DONE IN CEILING DIA 100mm. THE WIRING SHALL BE CONCEALED IN CEILING POINTS & WALLS FROM 100mm TO TELEPHONE POINTS OR AS SHOWN ON DRAWINGS/B.O.Q.
- CONNECTION TO OUTLET BOXES:** THE WIRING SHALL BE CONCEALED IN WALL WITH COVER CONCEALED IN WALL AT POSITION OF WIRE TO INDICATE POSITION OF WIRE OUTLET BOXES.
- WIRING IN WALLS:** WIRING SHALL BE CONCEALED IN WALL WITH COVER CONCEALED IN WALL AT POSITION OF WIRE TO INDICATE POSITION OF WIRE OUTLET BOXES.
- ELECTRICAL DRAWINGS:** ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORKS. THE WIRING SHALL BE DONE IN WALL WITH COVER CONCEALED IN WALL AT POSITION OF WIRE TO INDICATE POSITION OF WIRE OUTLET BOXES.
- ELECTRICAL TESTS:** ELECTRICAL WORKS SHALL BE TESTED AFTER ALL ELECTRICAL WORKS ARE COMPLETED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL TESTS.

MEP CONSULTANTS:

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CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

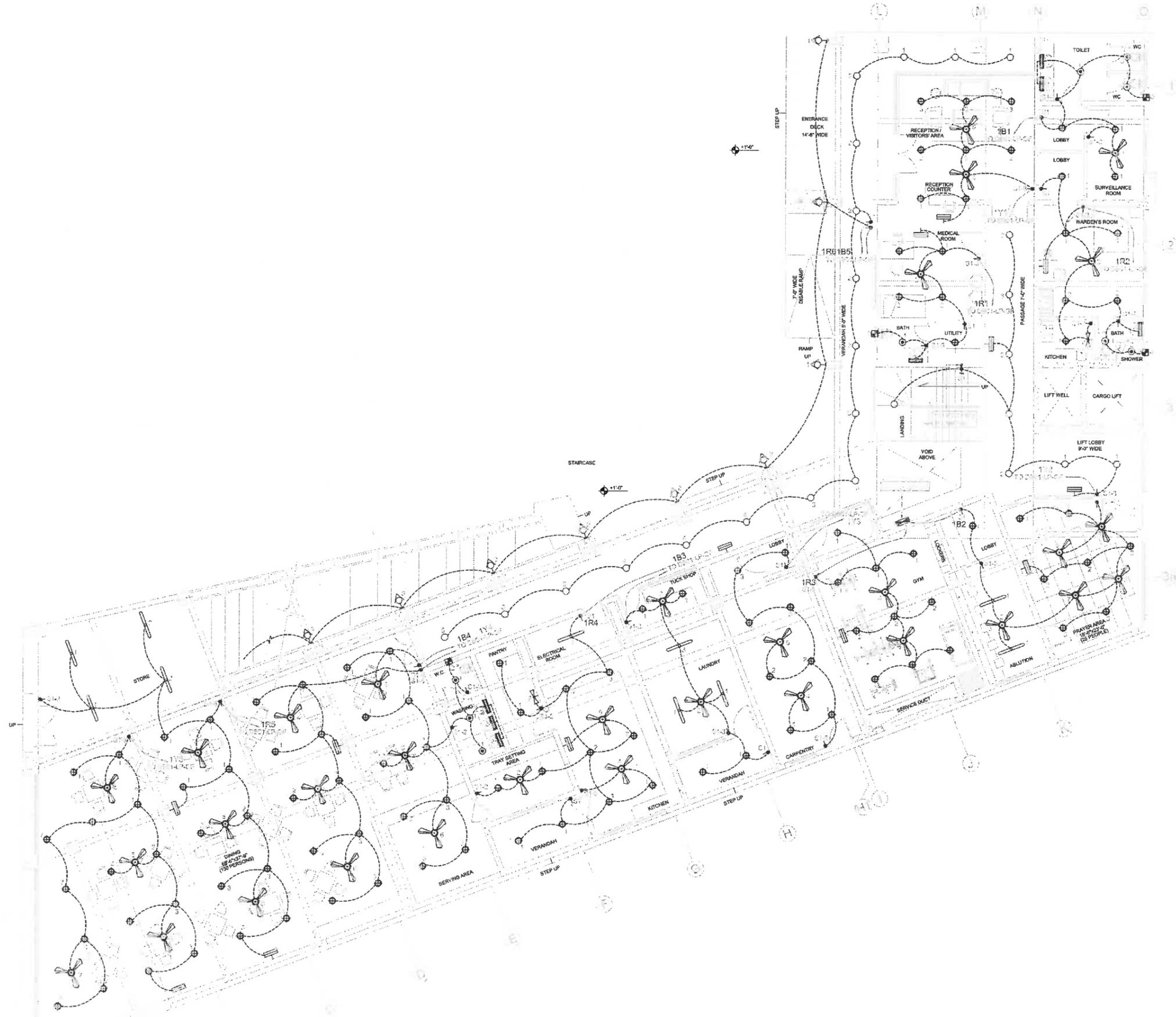
PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE:  
**LEGEND & NOTES**

TITLE:  
**LEGEND & NOTES**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:  
 DRAWING NO.: E-00

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer made to rectify immediately if any discrepancy.



GROUND FLOOR PLAN

MEP CONSULTANTS:

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 Fax: +92-33113122  
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**IAA - INTIAZ ALL ASSOCIATES**  
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 35672359 - FAX: 35733456  
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CLIENT

PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE

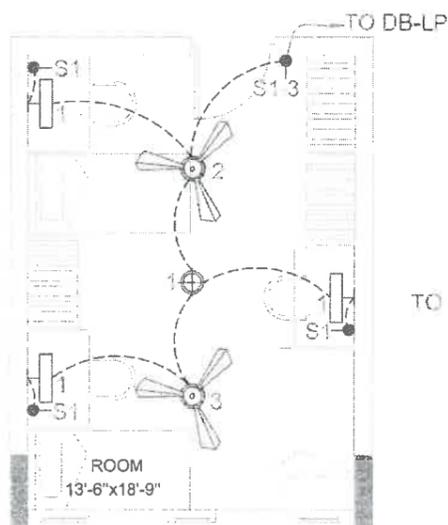
TITLE

LIGHTING LAYOUT PLAN GROUND FLOOR

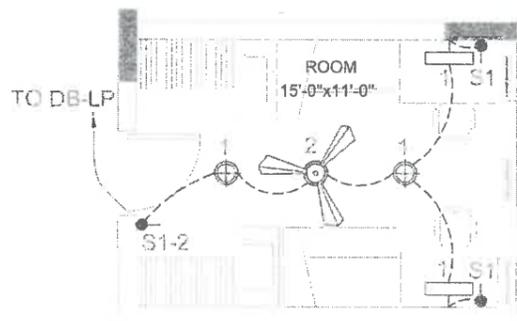
DATE	MAY-2021
DRAWN BY	USMAN
SCALE	1/4" = 1'-0"
PROJECT NO.	N.T.S

DRAWING NO.	E-01
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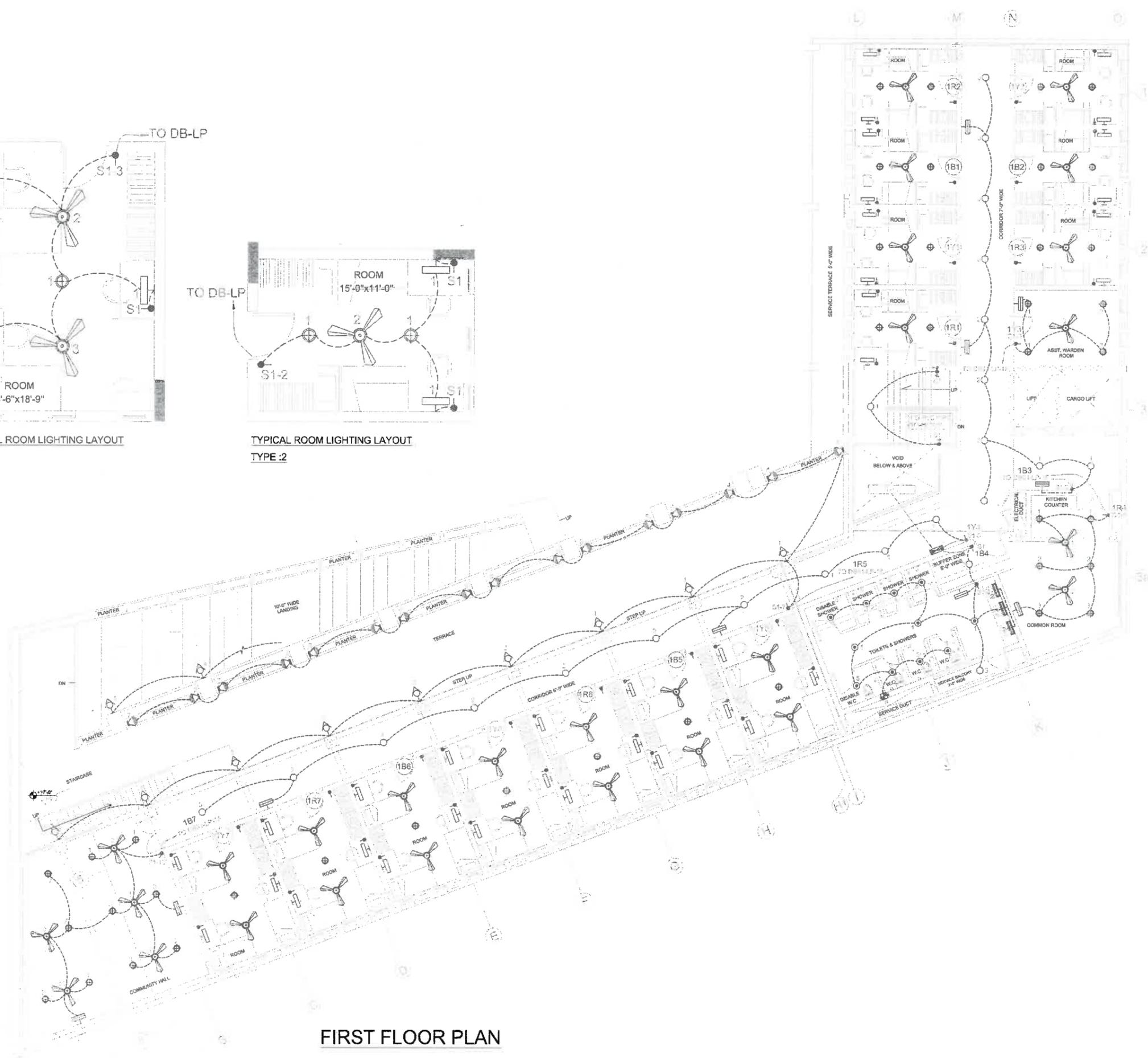
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing other drawings. The engineer shall be notified immediately of any discrepancies.



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :1



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :2



FIRST FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
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 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (Pvt. Ltd)**  
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 208 - 2 - LIFECORP MALL, LAHORE  
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 35870337 - FAX: 3575 9428

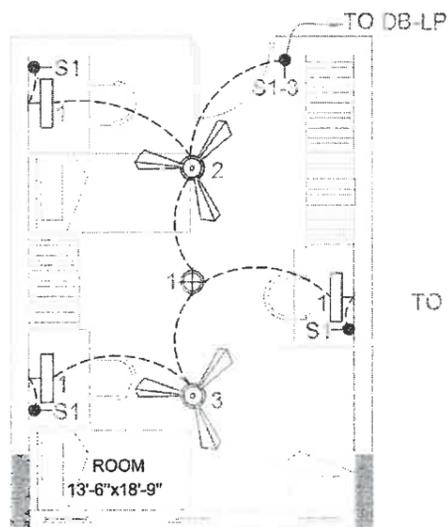
CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

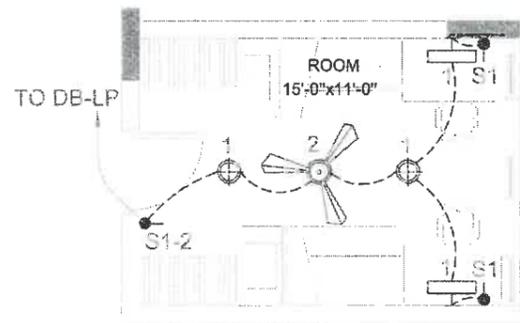
PACKAGE:  
**LIGHTING LAYOUT PLAN FIRST FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: N.T.S.  
 PROJECT NO.:  
 DRAWING NO.: E-02

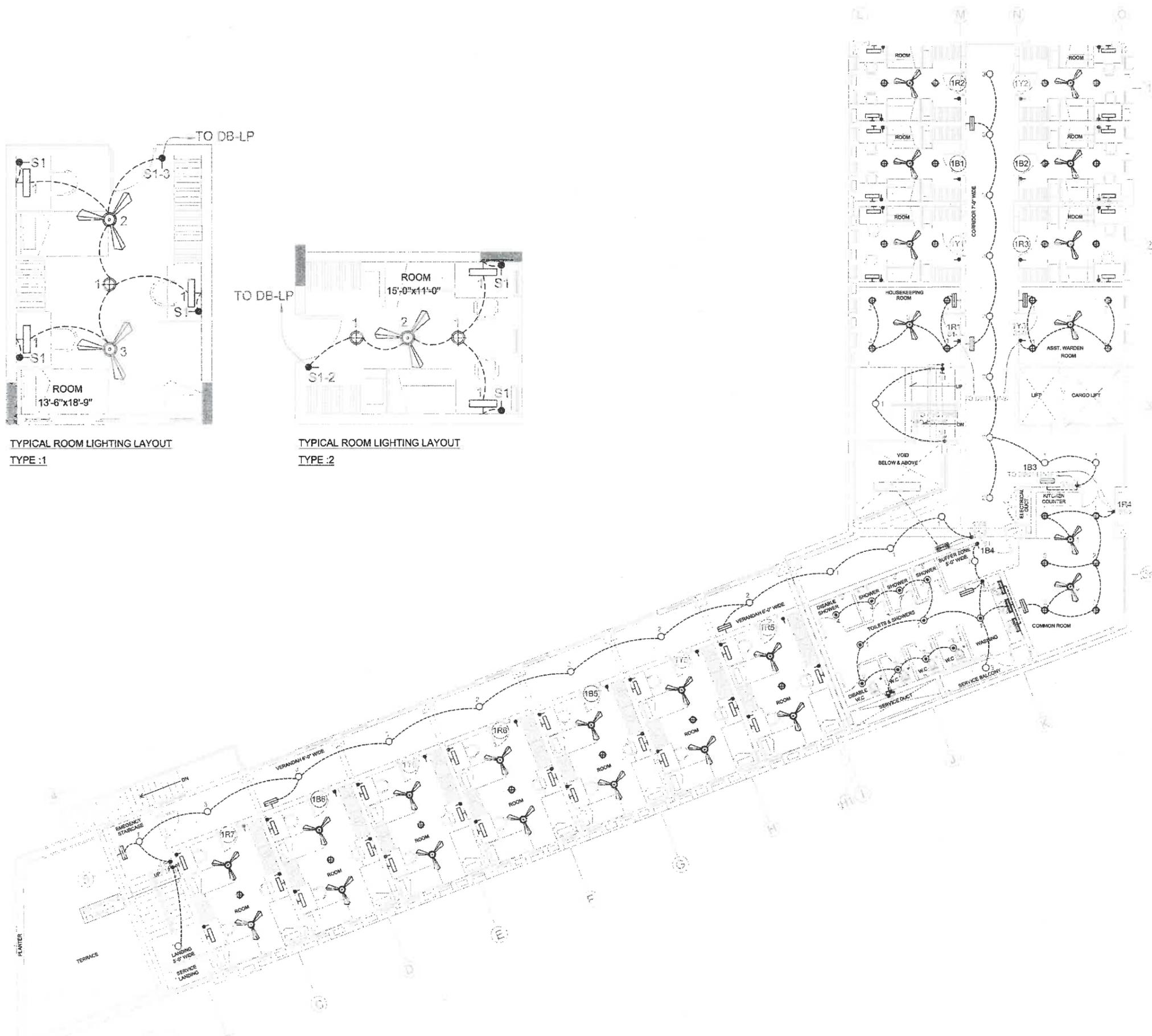
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original shall be retained by the client. No responsibility is accepted for any discrepancy.



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :1



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :2



SECOND FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Child Center Commercial Area Township Lahore, Punjab, Pakistan  
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 Fax: 9954-011232  
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**IAA - IMTAZ A.I. ASSOCIATES (PVT. LTD)**  
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 TEL: 35713815 - 35874885  
 35870285 - FAX: 35752438

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

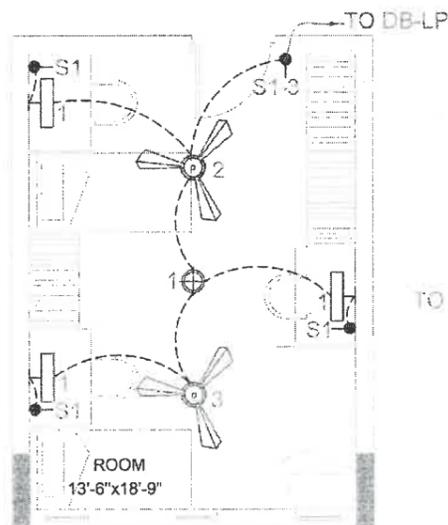
PACKAGE

TITLE  
**LIGHTING LAYOUT PLAN SECOND FLOOR**

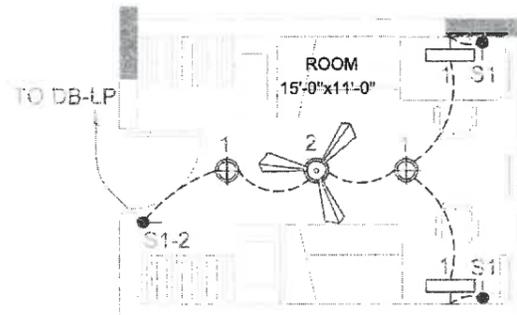
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 DRAWN BY: USMAN  
 SCALE: 1/4" = 1'-0" N.T.S  
 PROJECT NO.

DRAWING NO. E-03

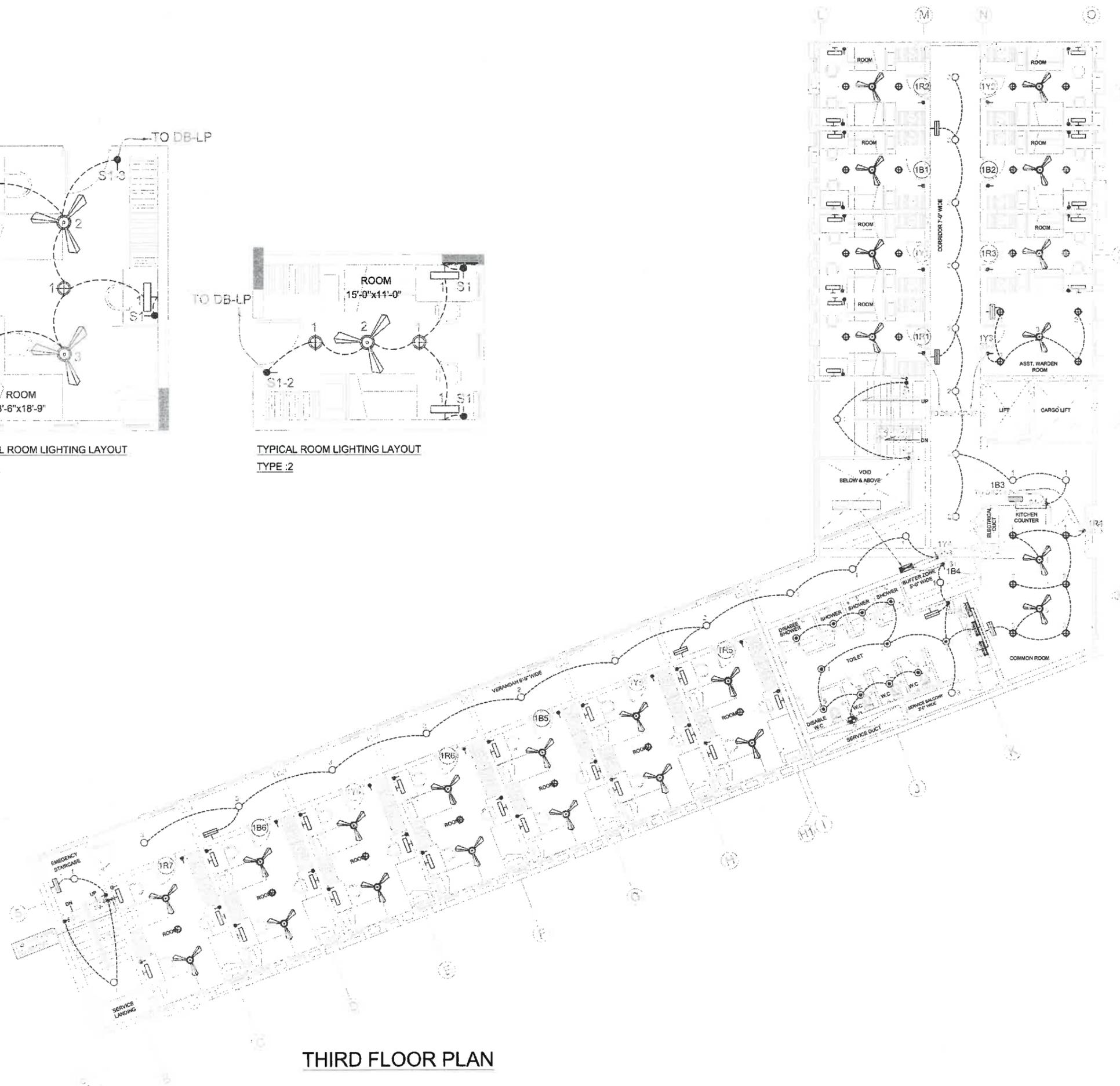
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or installing any equipment. The contractor should be notified immediately of any discrepancies.



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :1



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :2



THIRD FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 26-Clas Dastar Commercial Area Townships, Lahore, Punjab, Pakistan  
 Mob: +92-300-111125, 301124  
 Fax: +92-300-111129  
 Email: info@jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 258 - A - UPPER HALL, LAHORE.  
 TEL: 3571288 - 3587488 - 3587058 - FAX: 35755488  
 E-MAIL: MAIL@IAAENGINEERING.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

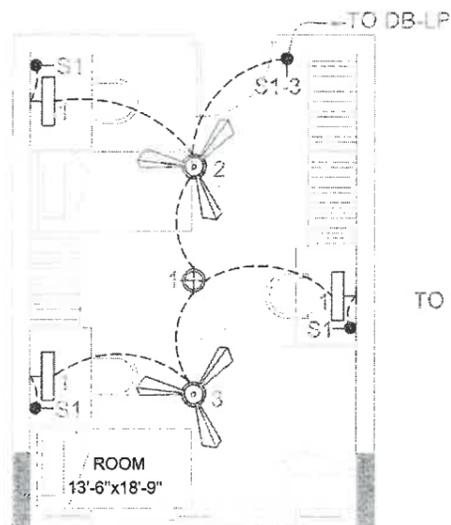
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
**LIGHTING LAYOUT PLAN THIRD FLOOR**

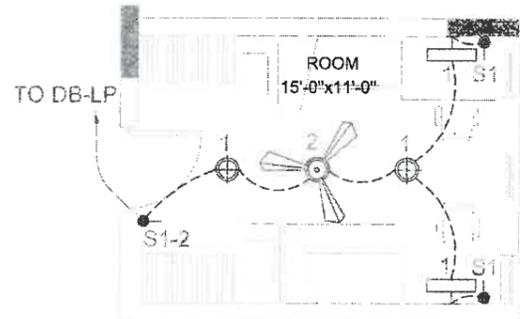
DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S

PROJECT NO.:  
 DRAWING NO.: E-04

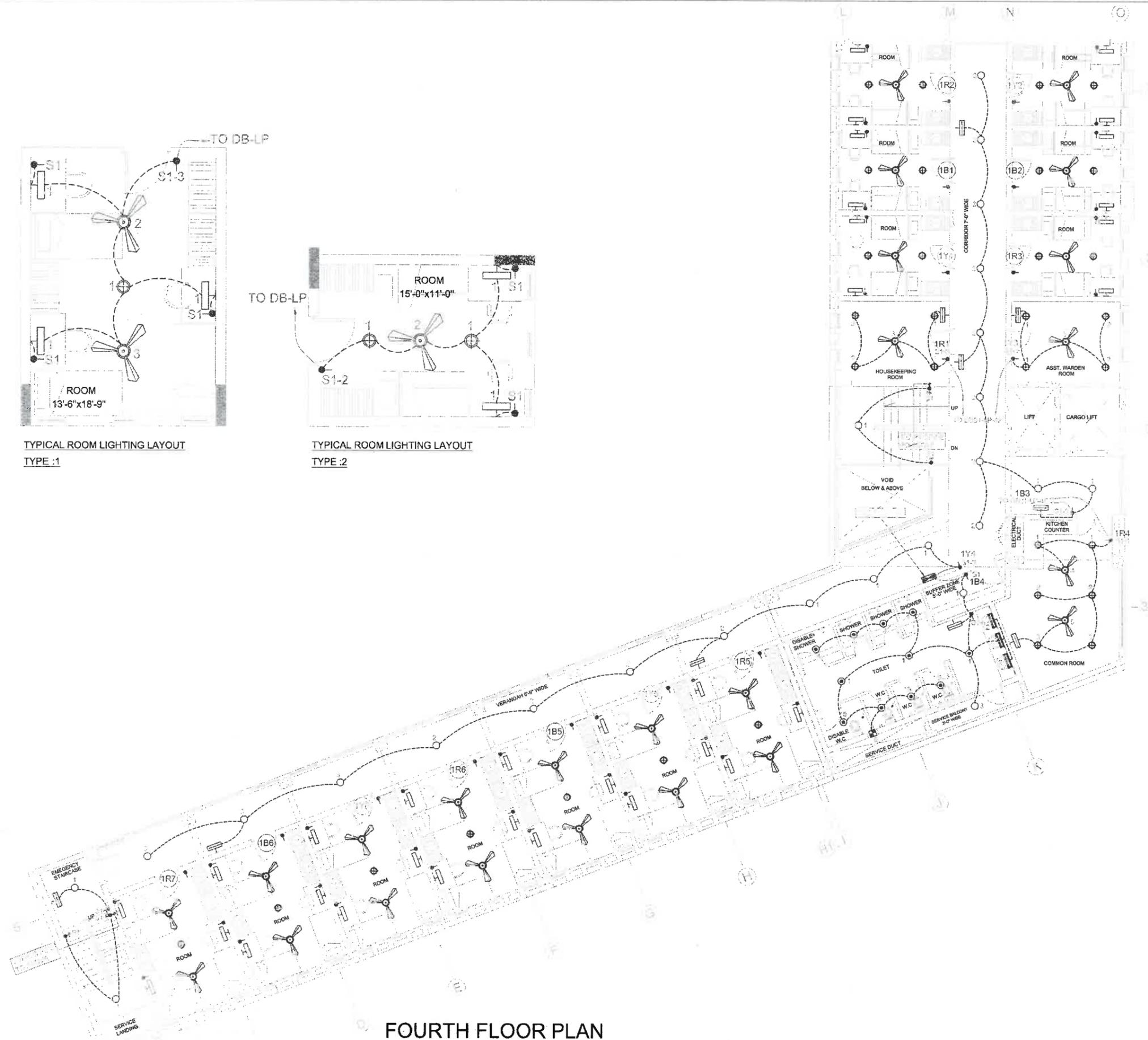
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or making shop drawings. The engineer must be notified immediately in any discrepancy.



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :1



TYPICAL ROOM LIGHTING LAYOUT  
TYPE :2



FOURTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-City Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Tel: 9971813-35874835  
 Fax: 9971813-35874835  
 Email: info@jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 108 - 6, UPPER HALL, LAHORE  
 TEL: 9971813 - 35874835  
 9971813 - 35874835  
 EMAIL: IAA@IAMRUALAHORE.COM

CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE:  
**LIGHTING LAYOUT PLAN FOURTH FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: AS SHOWN N.T.S  
 PROJECT NO.:  
 DRAWING NO.: E-05

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The designer shall be notified immediately of any discrepancies.





MUMTY FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Old, Center Commercial Area Townshp, Lahore, Punjab, Pakistan  
 Phone: +92-301111122, 3011024  
 Fax: +92-30111122  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 298 - A - UPPER MALL, LAHORE.  
 TEL: 35713813 - 35746888 - 35702259 FAX: 35734588  
 EMAIL: IAA@IAAEDPUNJAB.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

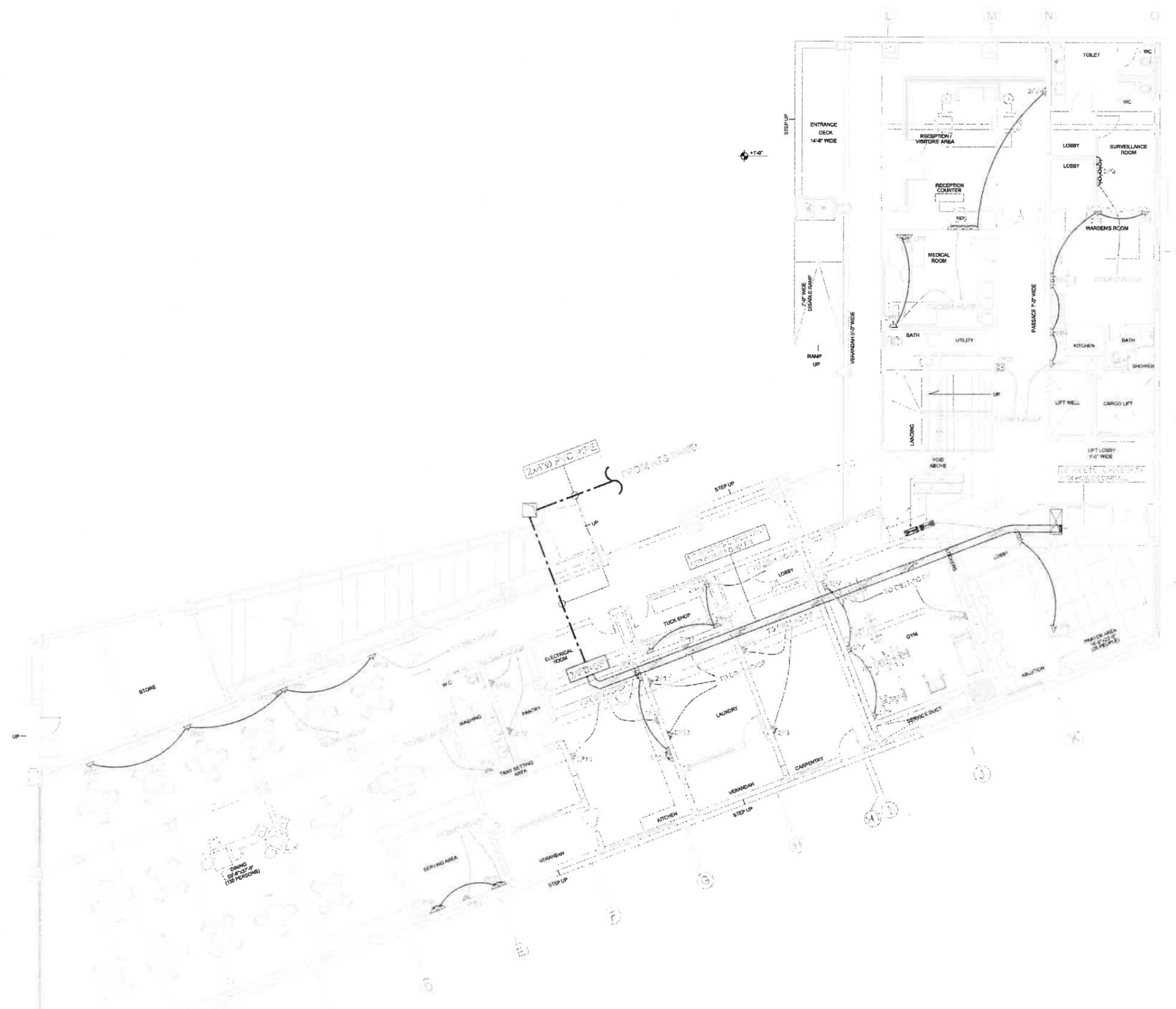
PACKAGE

TITLE  
**LIGHTING LAYOUT PLAN MUMTY FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	-


 DRAWING NO. **E-07**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The designer shall be notified immediately of any discrepancy.



**GROUND FLOOR PLAN**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-Orch, Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Phone: +92-42-35111123, 35111124  
 Fax: +92-42-35111123  
 Email: info@jers.com.pk  
 Web: http://www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT) LTD**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 299 - A - UPPER MALL, LAHORE.  
 TEL: 35713513, 35746828  
 35742239, FAX: 37738386  
 E-MAIL: IAA@IAAONLINE.PAKISTAN.COM

**CLIENT**  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

**PROJECT**  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

**PACKAGE**

**TITLE**  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN GROUND FLOOR**

**DATE** MAY-2021  
**DRAWN BY** USMAN  
**SCALE** 1/8" = 1' - N.T.S  
**PROJECT NO.**

**DATE** MAY-2021  
**DRWING NO.** E-08

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



FUTURE EXTENSION  
(BOYS HOSTEL)  
AREA = 23197 Sft:  
K-5

MASTER PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
26-Child Centre Commercial Area, Townships, Lahore, Punjab, Pakistan  
Tel: 35913319 - 35874825  
Fax: 35913319  
Email: jers@jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
ARCHITECTS - ENGINEERS - PLANNERS  
299 - A, UPPER HALL, LAHORE  
Tel: 35913319 - 35874825  
Fax: 35913319  
Email: iaa@imtalq.com

CLIENT  
PAKISTAN INSTITUTE OF FASHION AND DESIGN

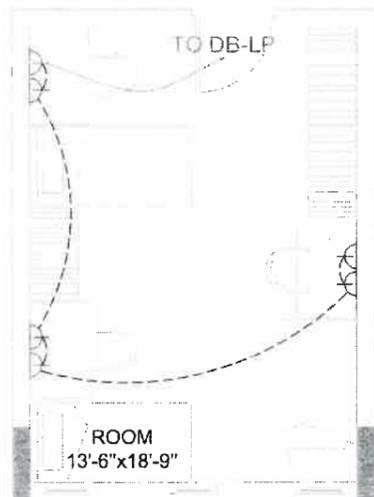
PROJECT  
PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE

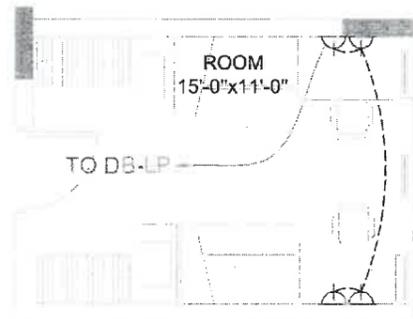
TITLE  
SMALL POWER & CABLE ROUTE LAYOUT MASTER PLAN

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	E-08A

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original should be verified herewith at any discrepancy.



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :1



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :2



FIRST FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 28-Chester Commercial Area Township, Lahore, Punjab, Pakistan  
 Mob: 9991231133, 99911724  
 Fax: 9992311332  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - INTREZ ALI ASSOCIATES**  
 (PVT. LTD)  
 ARCHITECTS - ENGINEERS - PLANNERS  
 238 - A - UPPER MALL, LAHORE  
 TEL: 35713919 - 35874828  
 CHARTERED - FAX: 35783438

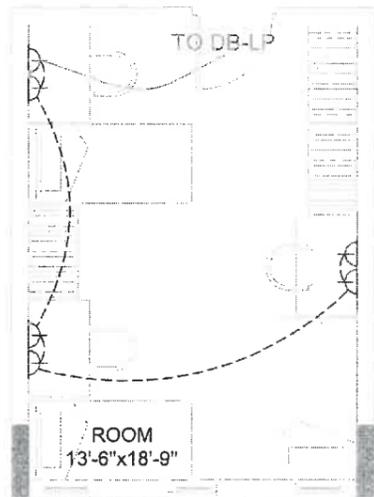
CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

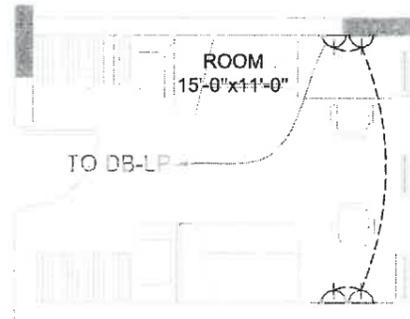
PACKAGE  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN FIRST FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:  
 DRAWING NO.: E-09

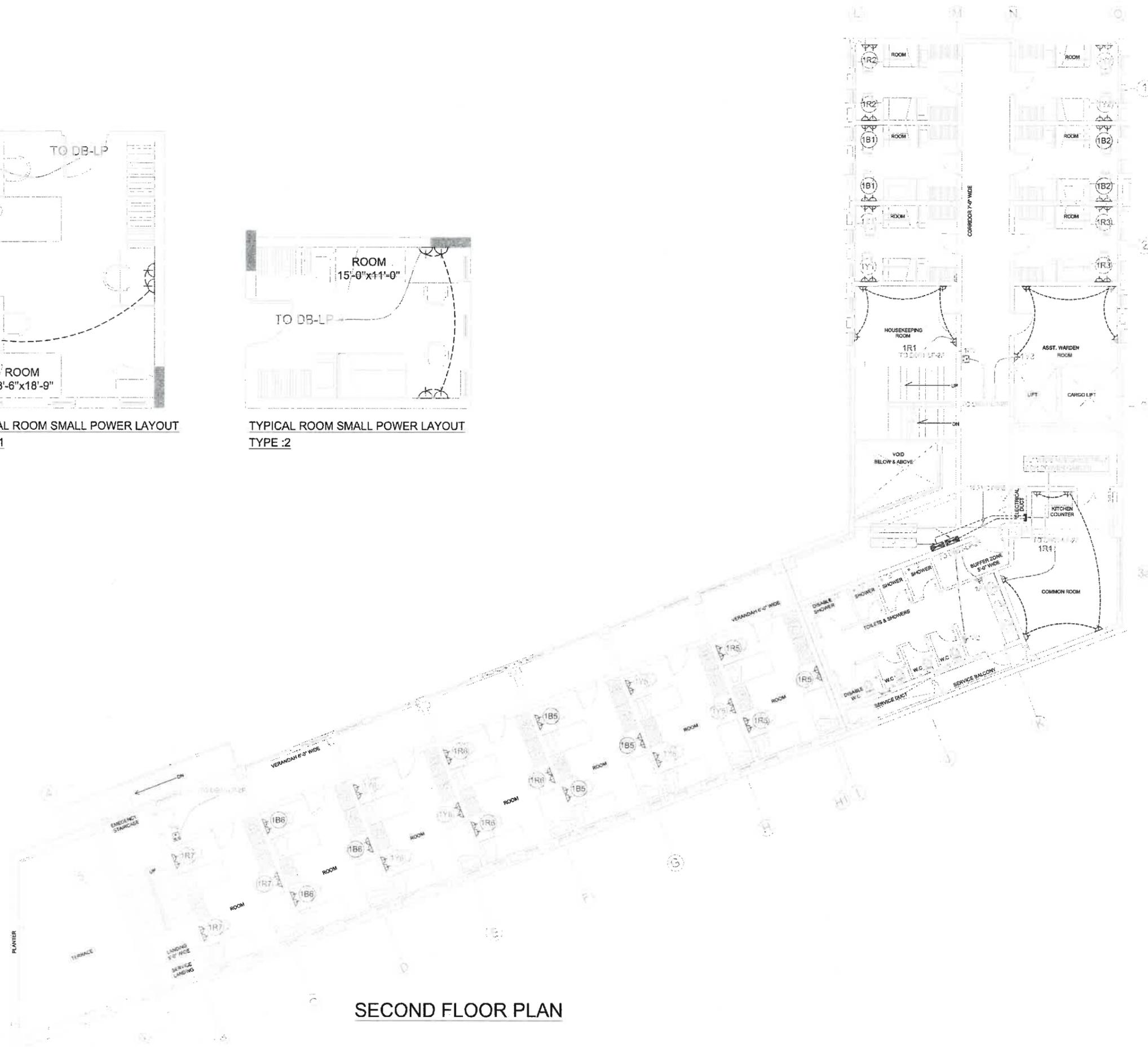
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding with drawings. The contractor should be notified immediately of any discrepancy.



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :1



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :2



SECOND FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Civic Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Mob: 9999251122, 9911114  
 Fax: 9999251122  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (Pvt. Ltd)**

ARCHITECTS - ENGINEERS - PLANNERS  
 22B - A - LINGER HALL, LAHORE  
 TEL: 35719113 - 35874845  
 35870229 - Fax: 35753428

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

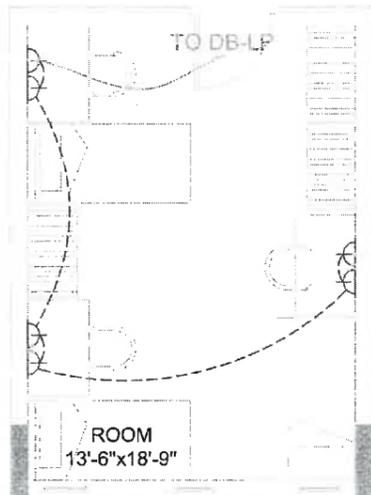
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN SECOND FLOOR**

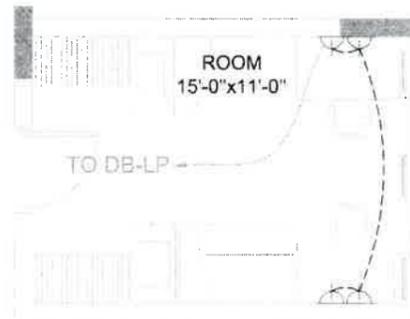
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DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. E-10

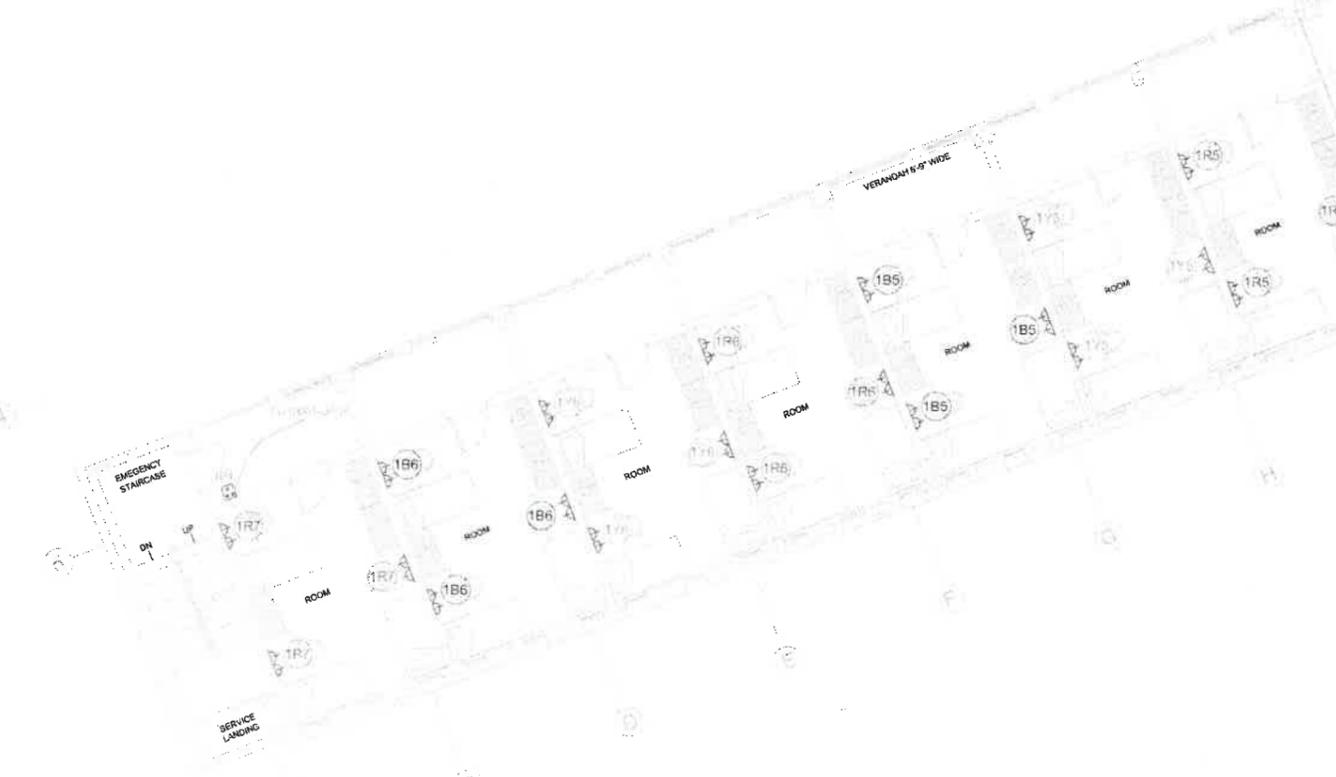
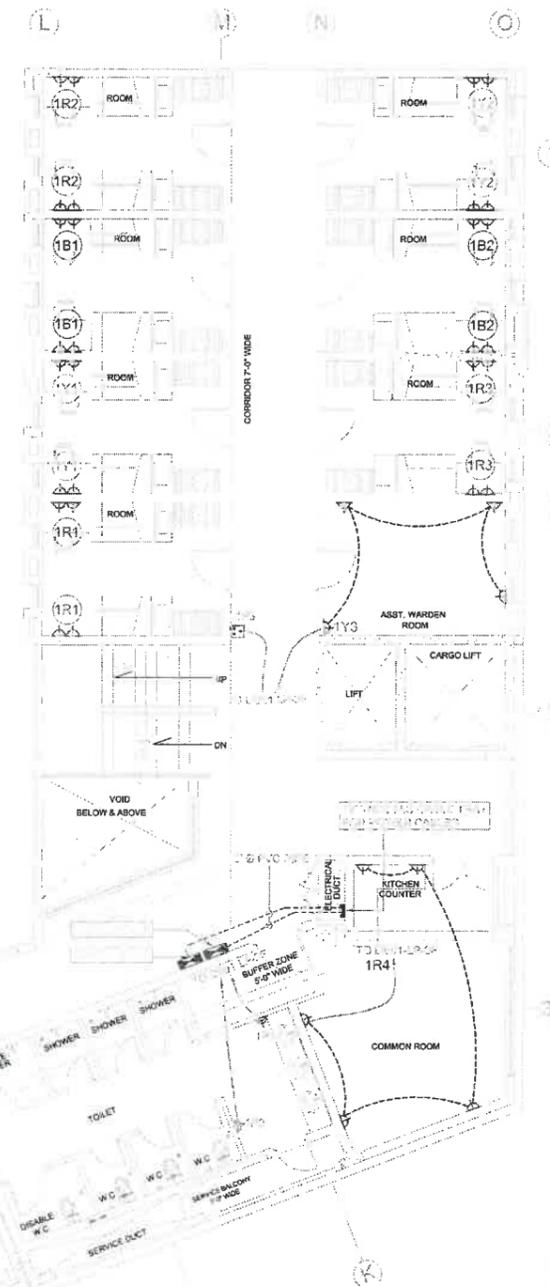
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing any drawings. The original should be retained in possession of the client.



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :1



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :2



THIRD FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 25 Chloé Centre Commercial Area Township, Lahore, Punjab, Pakistan  
 Tel: +92-300-1312535-3513124  
 Fax: +92-300-1312535  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - INTIAZ ALI ASSOCIATES (PVT) LTD**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 205 F-4, UPPER HALL, LAHORE  
 TEL: 359713815 - 359748225  
 359722535 - 359722535  
 E-MAIL: IAA@IAAARCHITECTS.COM

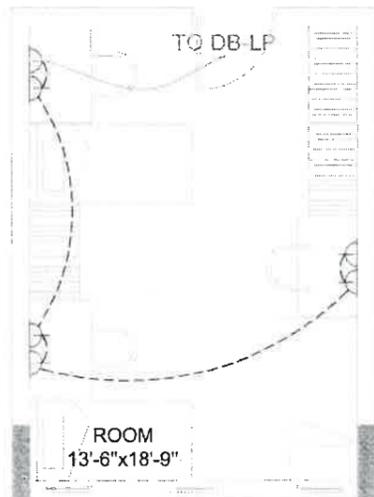
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**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

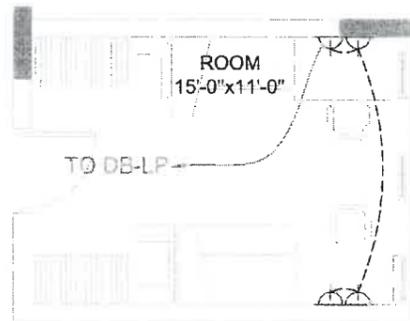
PACKAGE  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN THIRD FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	-
DRAWING NO.	E-11

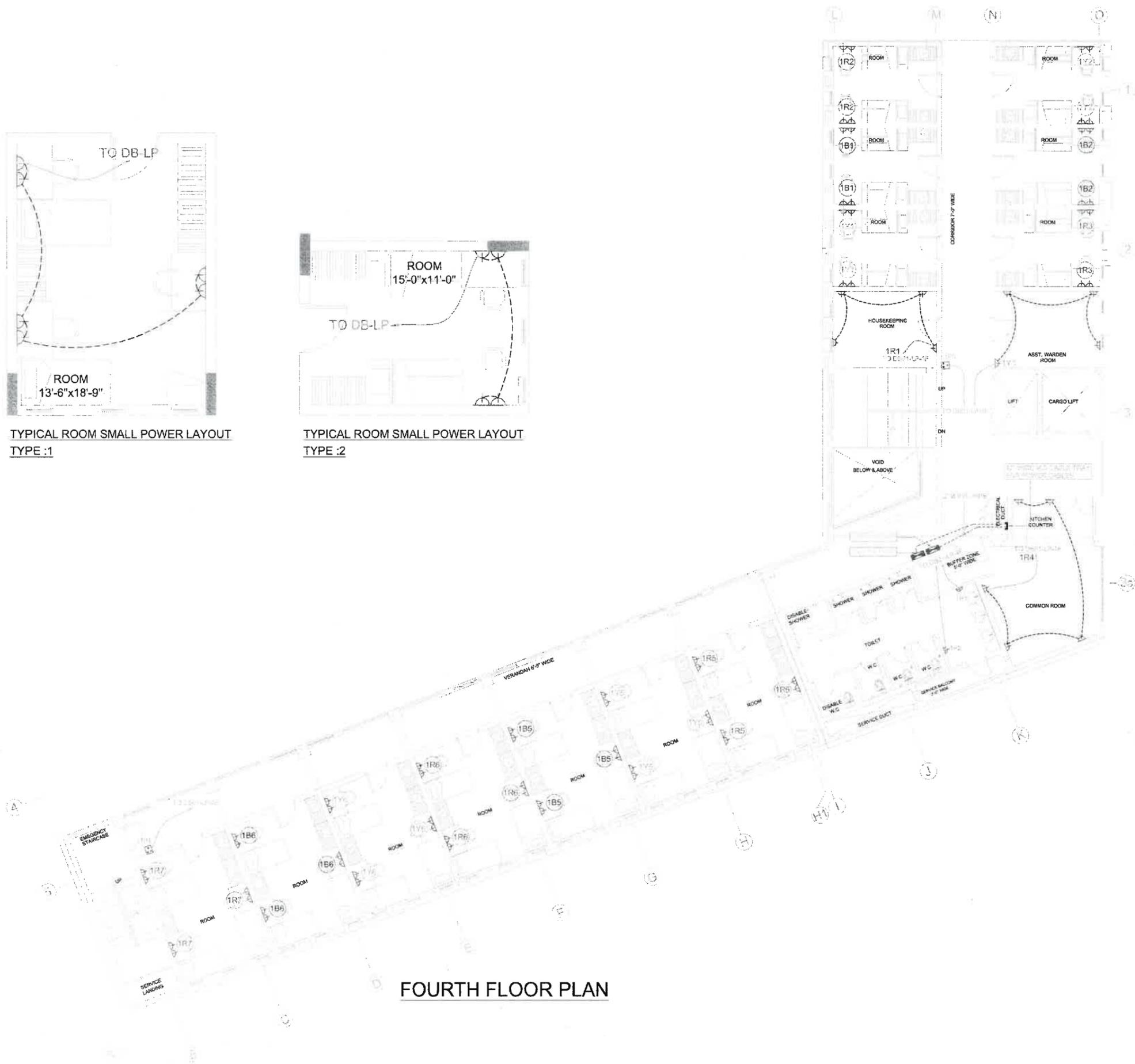
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :1



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :2



FOURTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Ching Center Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: +92-42-35111321, 35113124  
 Fax: +92-42-35111322  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES**  
 (PVT) LTD  
 ARCHITECTS - ENGINEERS - PLANNERS  
 205 - A - UPPER MALL, LAHORE  
 TEL: 35713813 - 35874885 -  
 35872259 - FAX: 35782458  
 EMAIL: IAA@IAAARCHITECTS.COM

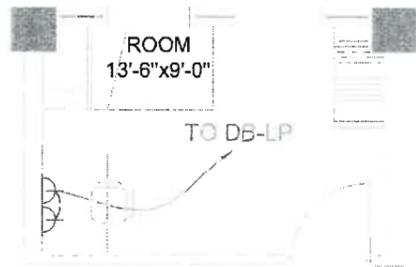
CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

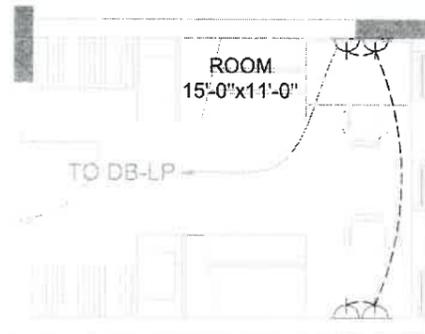
PACKAGE:  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN FOURTH FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:  
 SHEET NO.: E-12

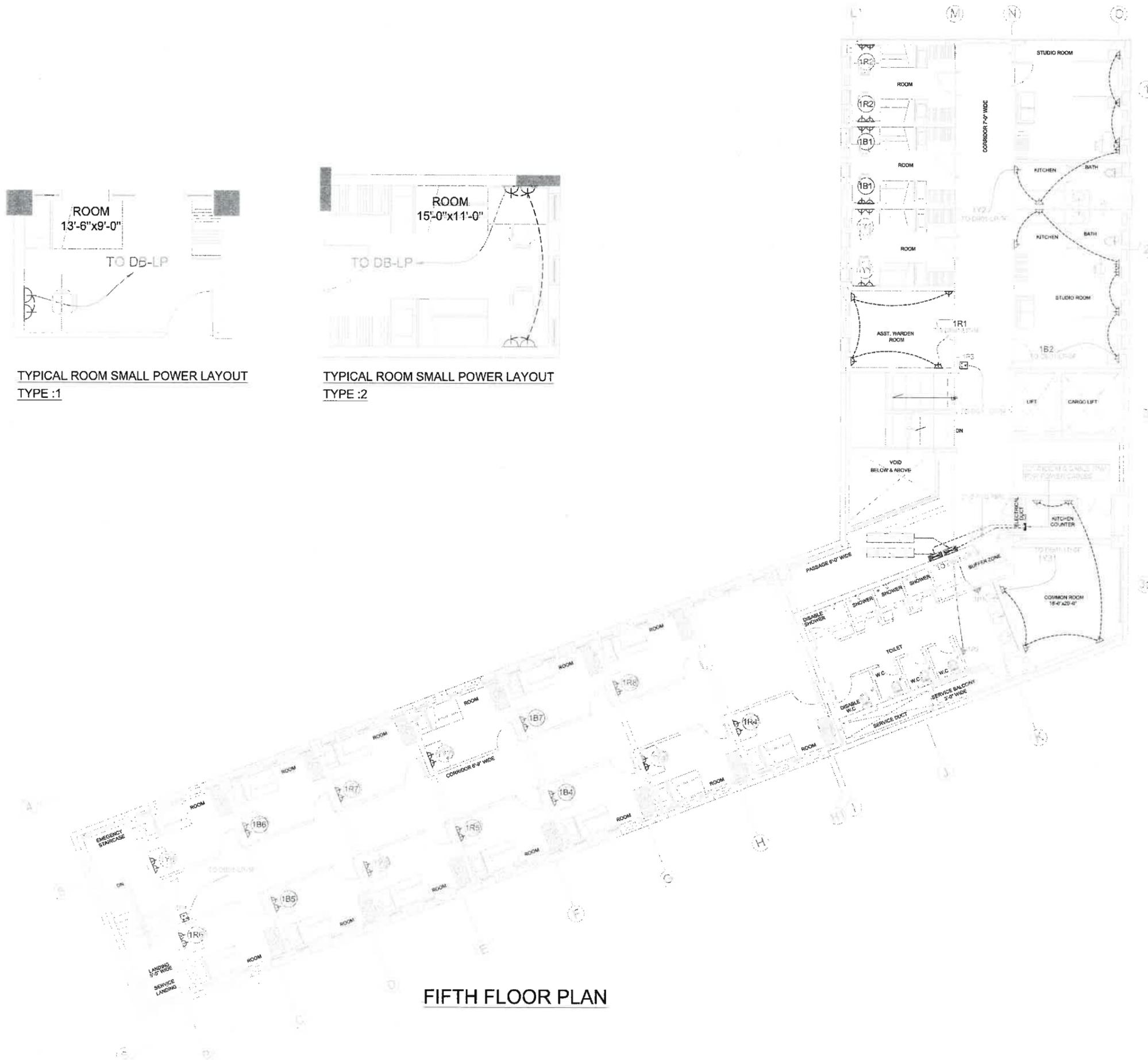
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :1



TYPICAL ROOM SMALL POWER LAYOUT  
TYPE :2



FIFTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
24-C/10 Center Commercial Area, Townships, Lahore, Punjab, Pakistan  
Tel: +92-300-111123, 3011024  
Fax: +92-300-1011020  
Email: info@jers.com.pk  
Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
ARCHITECTS - ENGINEERS - PLANNERS  
205 - 2 UPPER HALL, LAHORE  
Tel: 3571813 - 35874828  
35870889 - Fax: 35718138  
Email: haa@iaainstitute.com

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

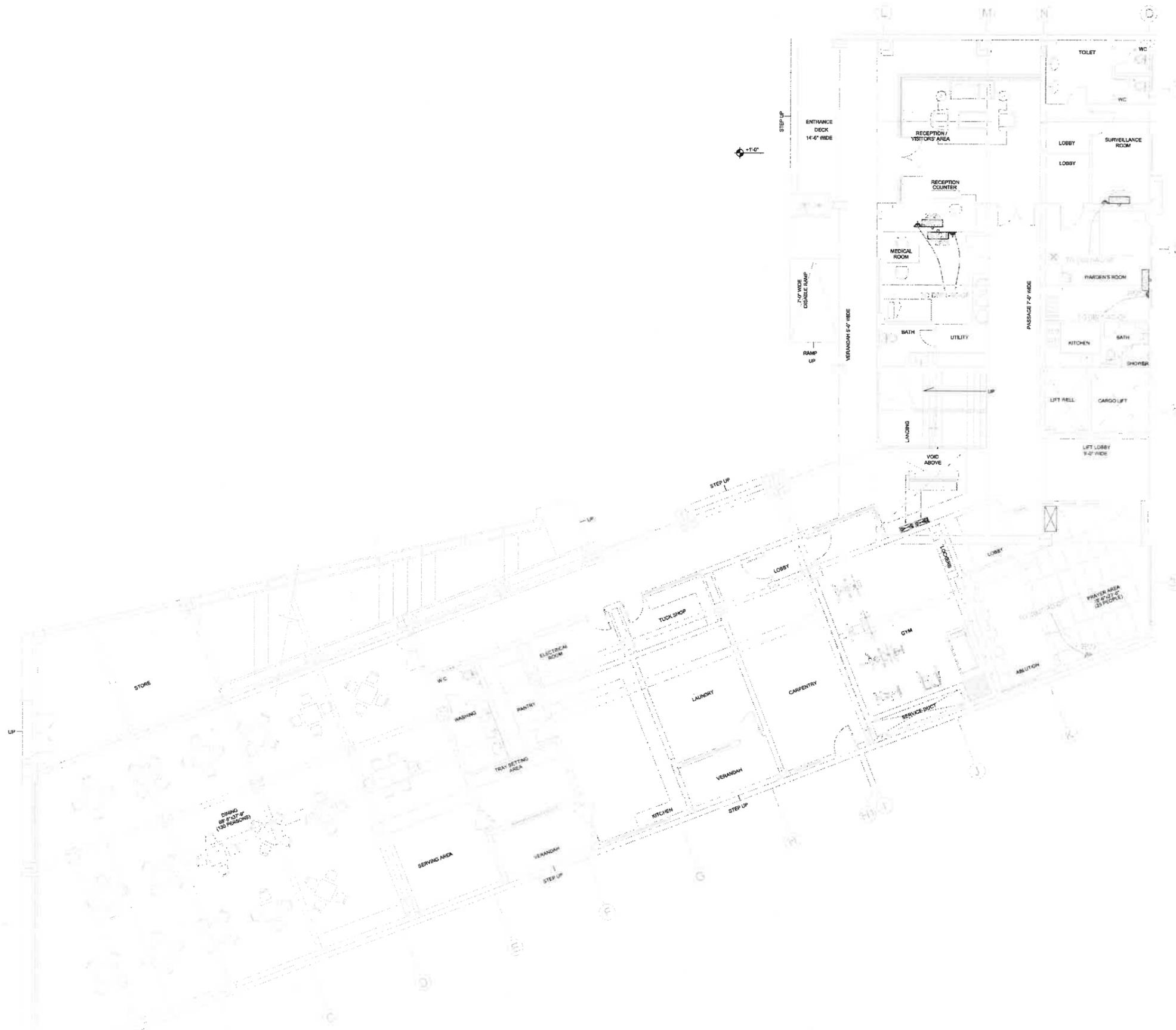
PACKAGE

TITLE  
**SMALL POWER & CABLE ROUTE LAYOUT PLAN FIFTH FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	

Drawing No. E-13

This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions shall be checked and verified on site before commencing any work or producing shop drawings. The original shall be retained in accordance with any discrepancy.



GROUND FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Club Centre Commercial Area Township, Lahore, Punjab, Pakistan  
 Tel: +92-32-3511123, 3511324  
 Fax: +92-32-3511325  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**

ARCHITECTS - ENGINEERS - PLANNERS  
 230 - 4 - UPPER HALL, LAHORE  
 TEL: 35913815 - 35874825  
 35872329 - FAX: 35723428  
 EMAIL: iaa@iaaarchitects.com

CLIENT

PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE

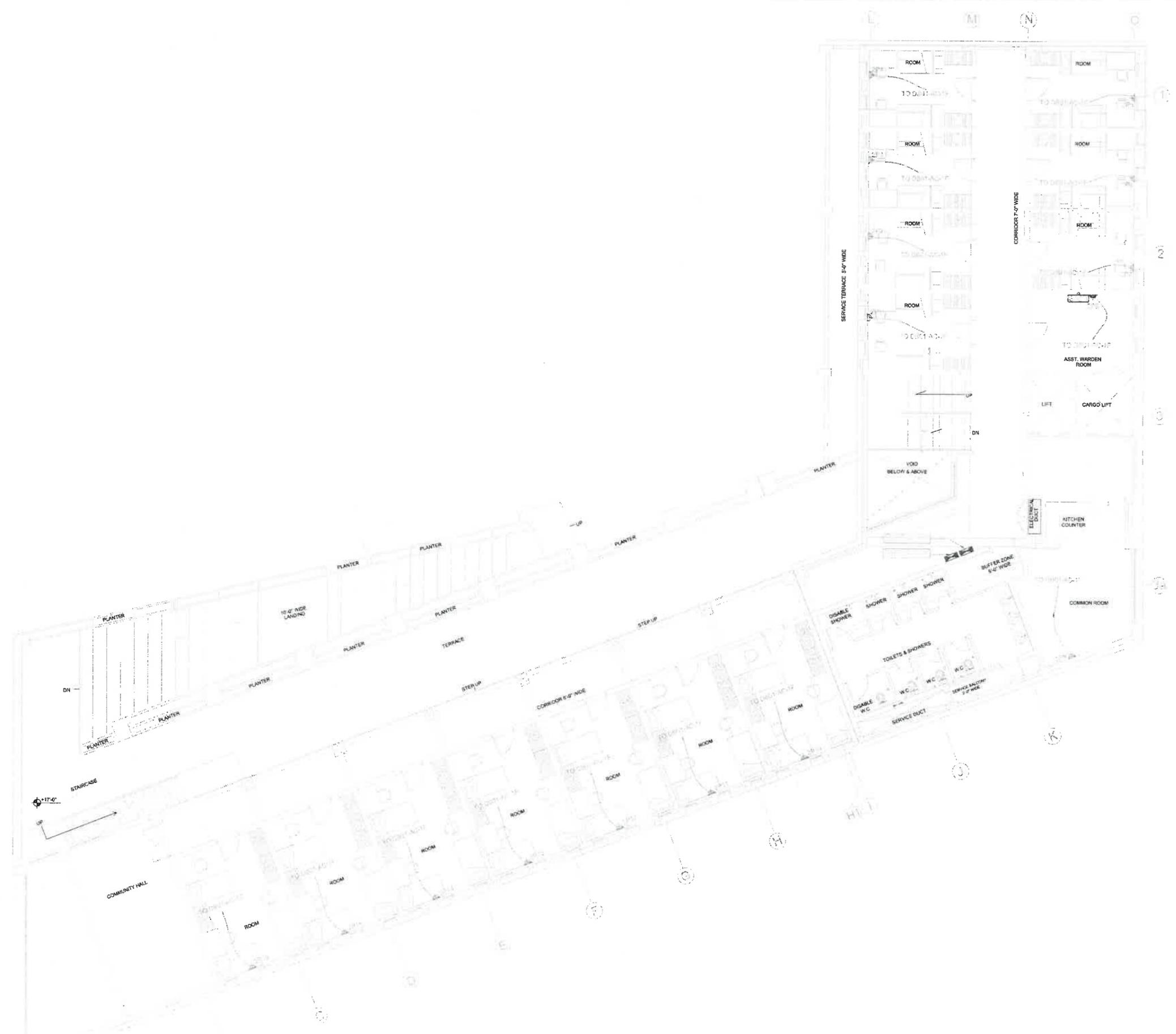
TITLE

AIR CONDITIONING LAYOUT PLAN GROUND FLOOR

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	

DRAWING NO. E-14

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original should be retained in case of any discrepancy.



FIRST FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24/24/25 Corner Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: 358-2511312, 351 3144  
 Fax: 358-2511323  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 29B - A - UPPER HALL, LAHORE  
 TEL: 35712815 - 3574882 - 35670556 - Fax: 35755420

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

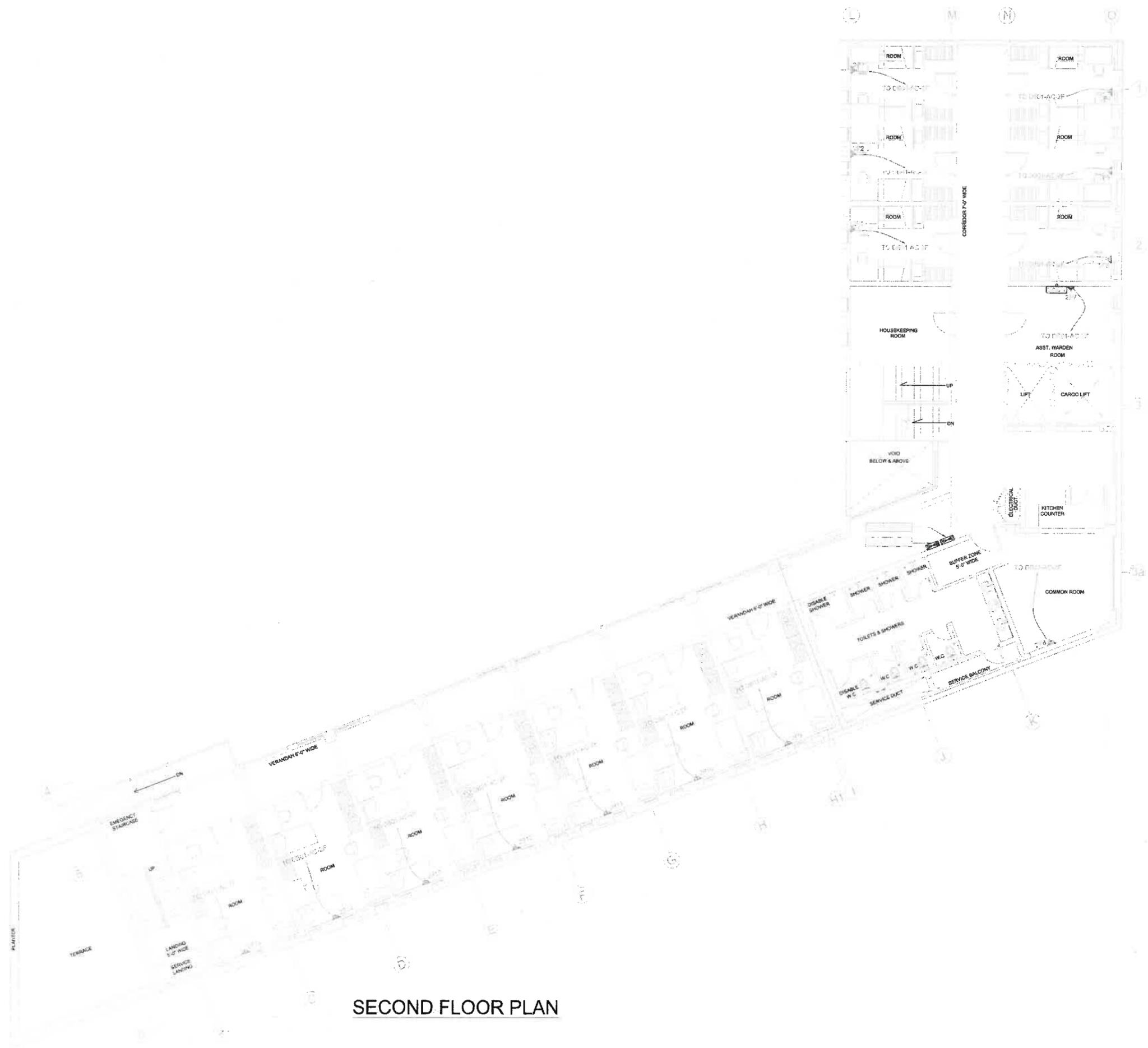
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**AIR CONDITIONING LAYOUT PLAN FIRST FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @AS N.T.S  
 PROJECT NO.:  
 DRAWING NO.: E-15

This drawing is to be used in connection with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original should be retained for reference of any discrepancy.



**SECOND FLOOR PLAN**

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-City Centre Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: +92-42-35112123, 36112124  
 Fax: +92-42-35112122  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - INTIZAM ASSOCIATES (PVT) LTD**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 2/F - A - UPPER MALL, LAHORE.  
 TEL: 35713513 - 35874829  
 35713513 - FAX: 35738338

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

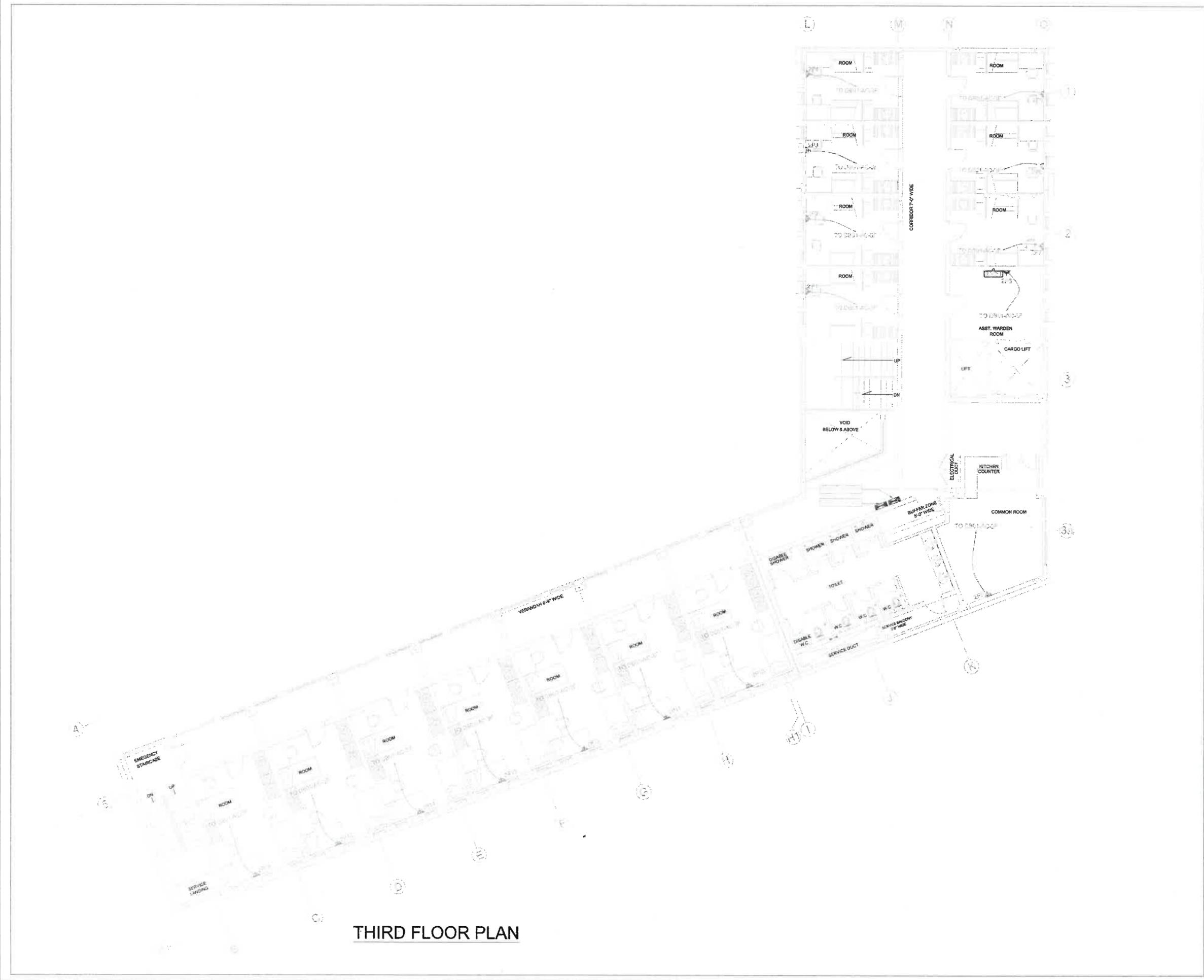
PACKAGE

TITLE  
**AIR CONDITIONING LAYOUT PLAN SECOND FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	

**E-16**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and noted on site before commencing any work or producing shop drawings. The originator shall be notified immediately of any discrepancy.



**THIRD FLOOR PLAN**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-25/26 Centre Commercial Area, Township, Lahore, Punjab, Pakistan  
 Phone: +92-331-2311231, 2311232  
 Fax: +92-331-2311233  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 205 - 4 - UPPER HALL, LAHORE  
 TEL: 35713813 - 3574828  
 3570333 - FAX: 3570338  
 E-MAIL: IAA@IAAONLINE.COM

**CLIENT**  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

**PROJECT**  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

**PACKAGE**

**TITLE**  
**AIR CONDITIONING LAYOUT PLAN THIRD FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	-
DIAGRAM NO.	E-17

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The designer shall be notified immediately of any discrepancy.



**FOURTH FLOOR PLAN**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-CH/10 Darya Commercial Area Townships, Lahore, Punjab, Pakistan  
 Tel: +92-42-33113123, 33113124  
 Fax: +92-42-33113125  
 Email: info@jers.com.pk  
 Website: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208 - 4 LUMPS HALL, LAHORE  
 TEL: 3571 9819 - 35874888  
 35712500 - FAX: 35725808  
 E-MAIL: MAIL@IAAARCHITECTS.COM

**CLIENT**  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

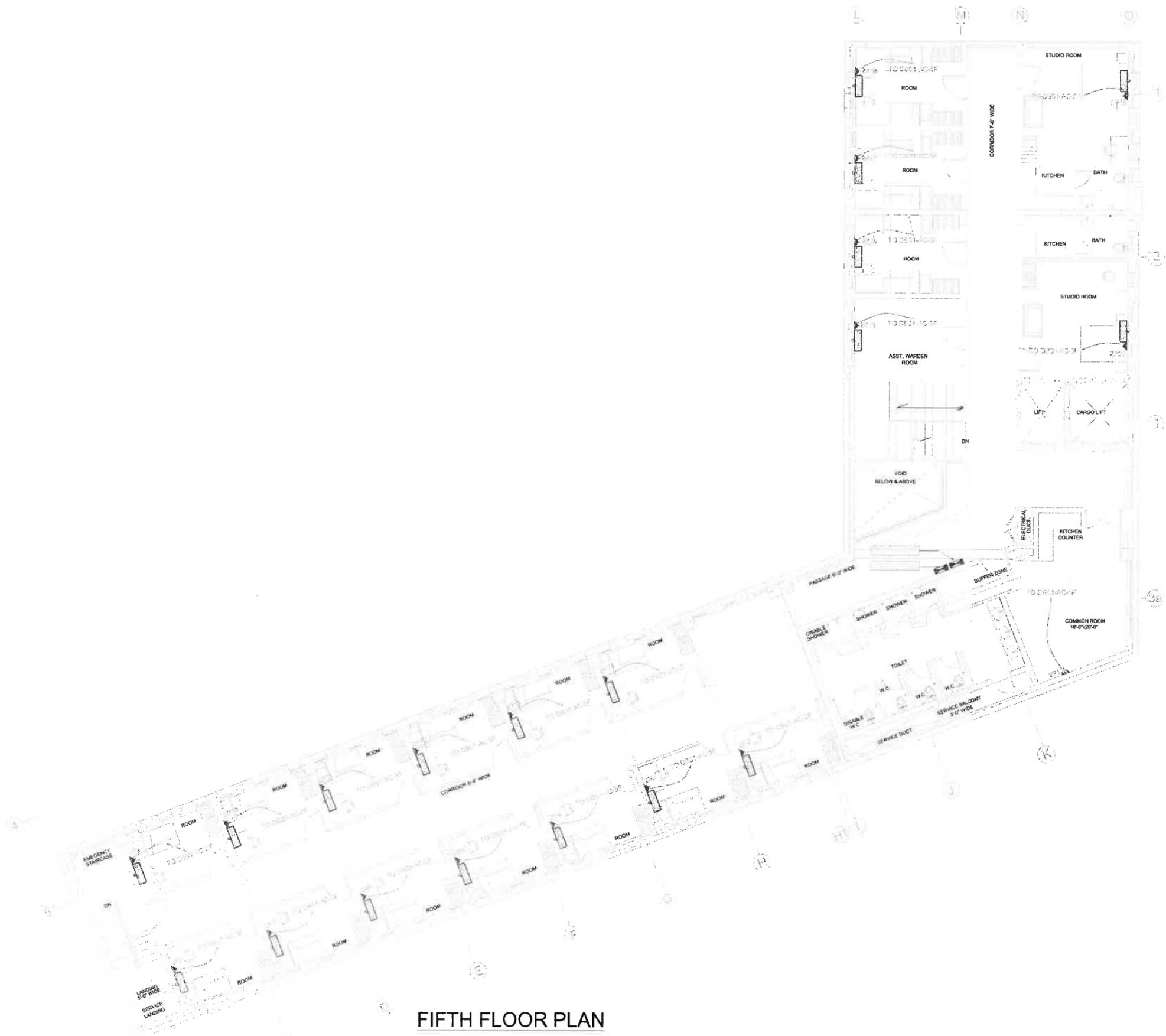
**PROJECT**  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

**PACKAGE**

**TITLE**  
**AIR CONDITIONING LAYOUT PLAN FOURTH FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	E-18

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing other drawings. The original needs to be retained for reference at all times.



FIFTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-C/46 Center Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: +92-42-35117123, 35117124  
 Fax: +92-42-35117122  
 Email: info@jers.com.pk  
 Web: http://www.jers.com.pk

**IAA - INTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 298 - A - UPPER MALL LAHORE.  
 TEL: 35713819 - 35574629 - 35713820 FAX: 35783686  
 EMAIL: MAIL@IAAARCHITECTURE.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**AIR CONDITIONING LAYOUT PLAN FIFTH FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	1/8"=1'-0"
PROJECT NO.	

UNANNULLED  
 E-19

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding with drawings. The original should be notified immediately of any discrepancy.



**GROUND FLOOR PLAN**

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Claris Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Mob: 9922-2613123, 9613124  
 Fax: 9922-2613122  
 Email: info@jers.com.pk  
 Website: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 2ND - 8 UPPER HALL, LAHORE  
 TEL: 35713813 - 35874823  
 35873239 - 3587376308  
 EMAIL: haa@iaaonline.com.pk

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**CCTV & FIRE ALARM LAYOUT PLAN GROUND FLOOR**

DATE: MAY 2021  
 DRAWN BY: USMAN  
 SCALE: @A1: N.T.S  
 PROJECT NO.

DRAWING NO. **E-20**

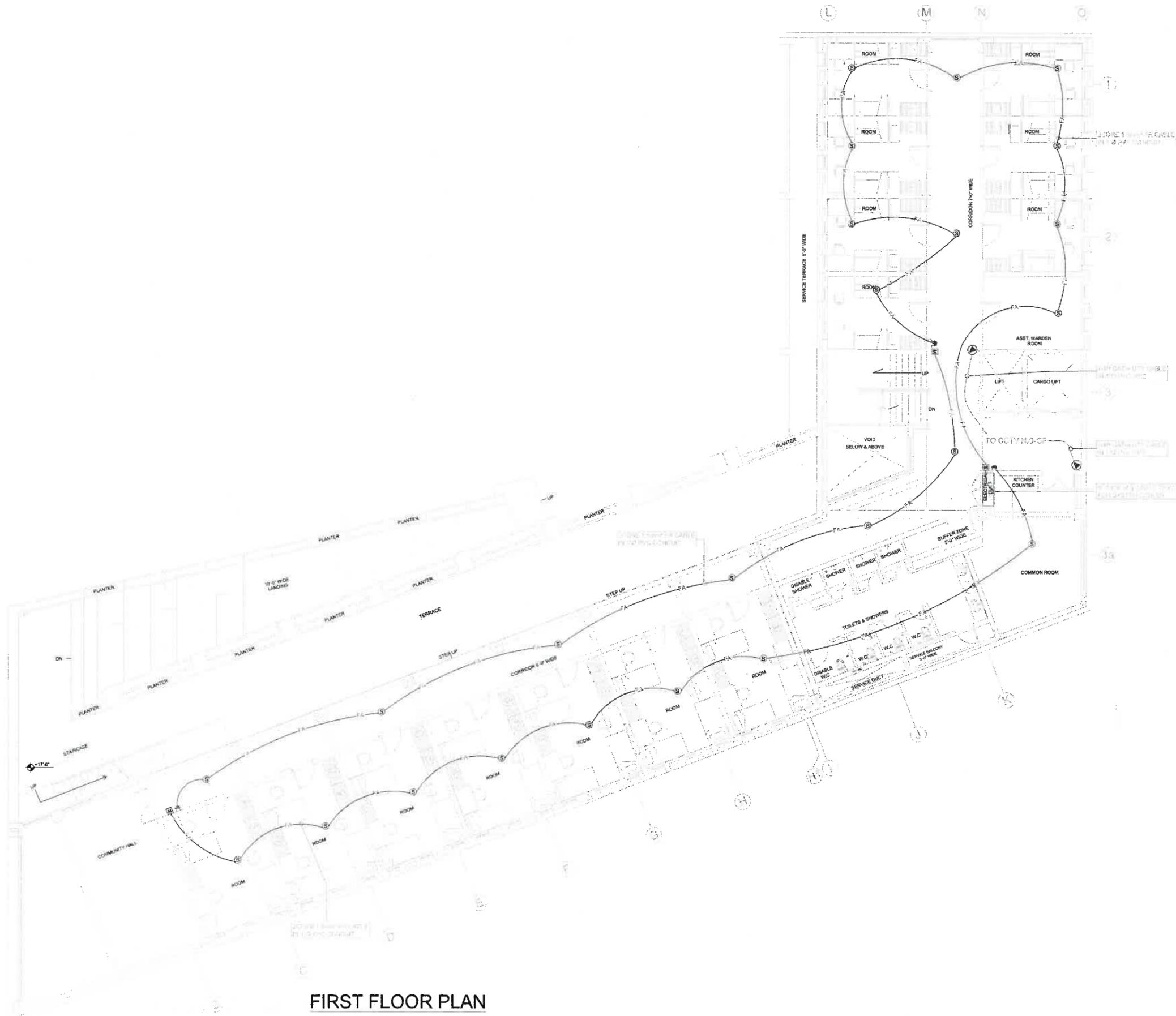
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding with drawings. The signature shall be needed for issuance of any discrepancy.



FUTURE EXTENSION  
(BOYS HOSTEL)  
AREA = 23197 Sft.  
K-5

MASTER PLAN

MEP CONSULTANTS:	
	<b>JERS CONSULTANCY (PVT) LTD</b> 24-Claris Center Commercial Area Township, Lahore, Punjab, Pakistan Phone: +92-300-1111111, 3011111 Fax: +92-300-1111111 Email: info@jers.com.pk Web: www.jers.com.pk
	<b>IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)</b> ARCHITECTS - ENGINEERS - PLANNERS 508 - A - UPPER MALL, LAHORE. TEL: 35712115 - 35874888 35872559 - FAX: 35730838 EMAIL: MAIL@IAAONLINE.COM
CLIENT	PAKISTAN INSTITUTE OF FASHION AND DESIGN
PROJECT	PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.
PACKAGE	
TITLE	CCTV LAYOUT MASTER PLAN
DATE	MAY-2021
DRAWN BY	USMAN
SCALE	AS SHOWN N.T.S
PROJECT NO.	
DRAWING NO.	E-20A
<small>This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding with the work. The signatory should be notified immediately of any discrepancy.</small>	



FIRST FLOOR PLAN

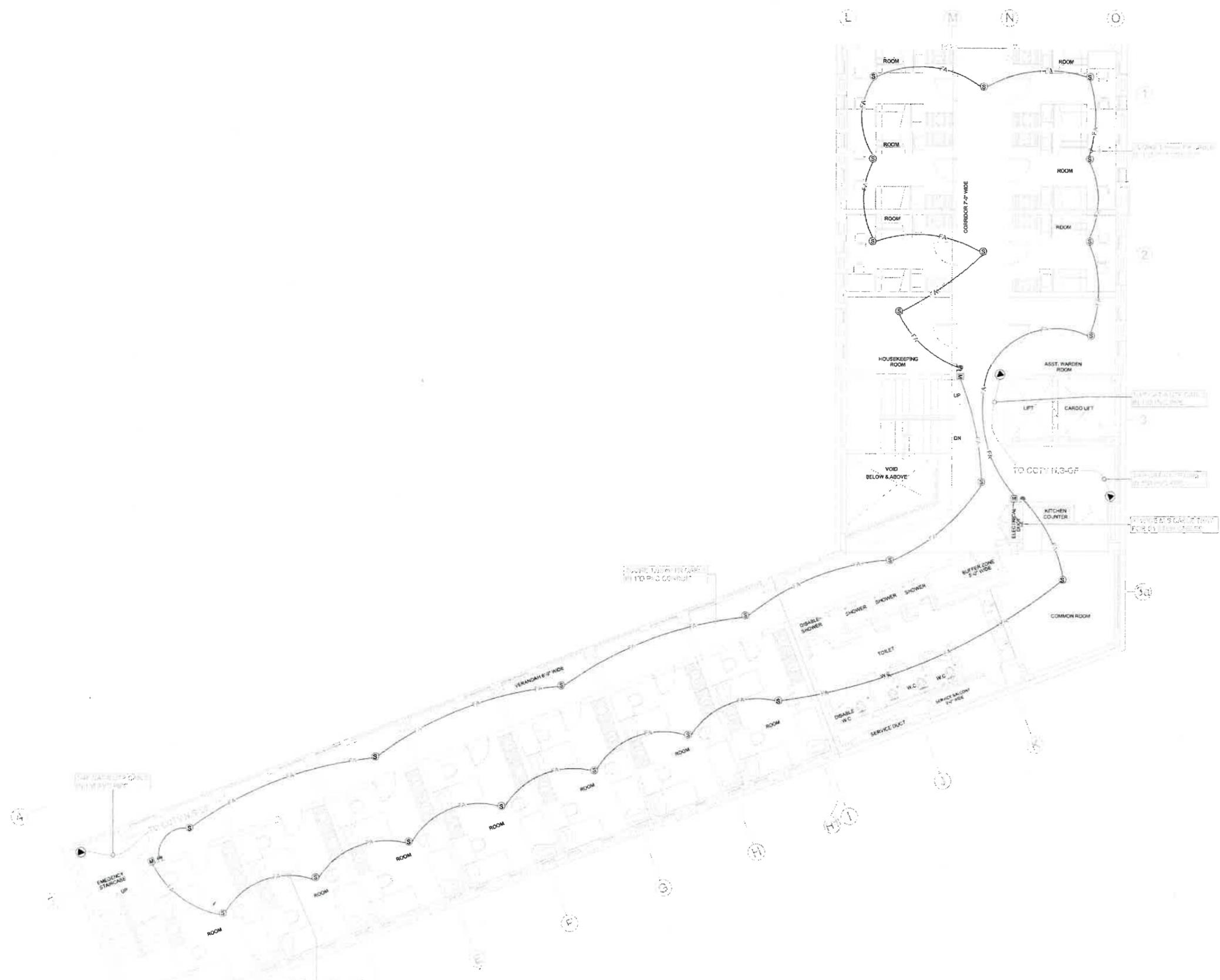
MEP CONSULTANTS:

	<b>JERS CONSULTANCY (PVT) LTD</b> 25-Gate Center Commercial Area Townships, Lahore, Punjab, Pakistan Phone: +92-42-3511723, 3511724 Fax: +92-42-3511725 Email: info@jers.com.pk Web: http://www.jers.com.pk	
		<b>IAA - INTIAZ ALI ASSOCIATES (PVT. LTD)</b> ARCHITECTS - ENGINEERS - PLANNERS 298 - A - UPPER MALL, LAHORE, TEL: 35713313 - 35774823 35702338 - FAX: 35736828
		<b>CLIENT</b> PAKISTAN INSTITUTE OF FASHION AND DESIGN
		<b>PROJECT</b> PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.
<b>PACKAGE</b>		
<b>TITLE</b> CCTV & FIRE ALARM LAYOUT PLAN FIRST FLOOR		
DATE	MAY-2021	
DRAWN BY	USMAN	
SCALE	N.T.S	
PROJECT NO.		
DRAWING NO.	E-21	

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The contractor should be notified immediately of any discrepancy.







**FOURTH FLOOR PLAN**

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-C/10, Connaught Place, Lahore, Pakistan  
 Phone: +92-42-3511128, 3511124  
 Fax: +92-42-3511120  
 Email: info@jers.com.pk, jers@jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT) LTD**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 20/A - UPPER HALL LANE, KARACHI  
 TEL: 35715813 - 35748825  
 35747029 - 35747030  
 Email: iaa@iaaconsultant.com

CLIENT:  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT:  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

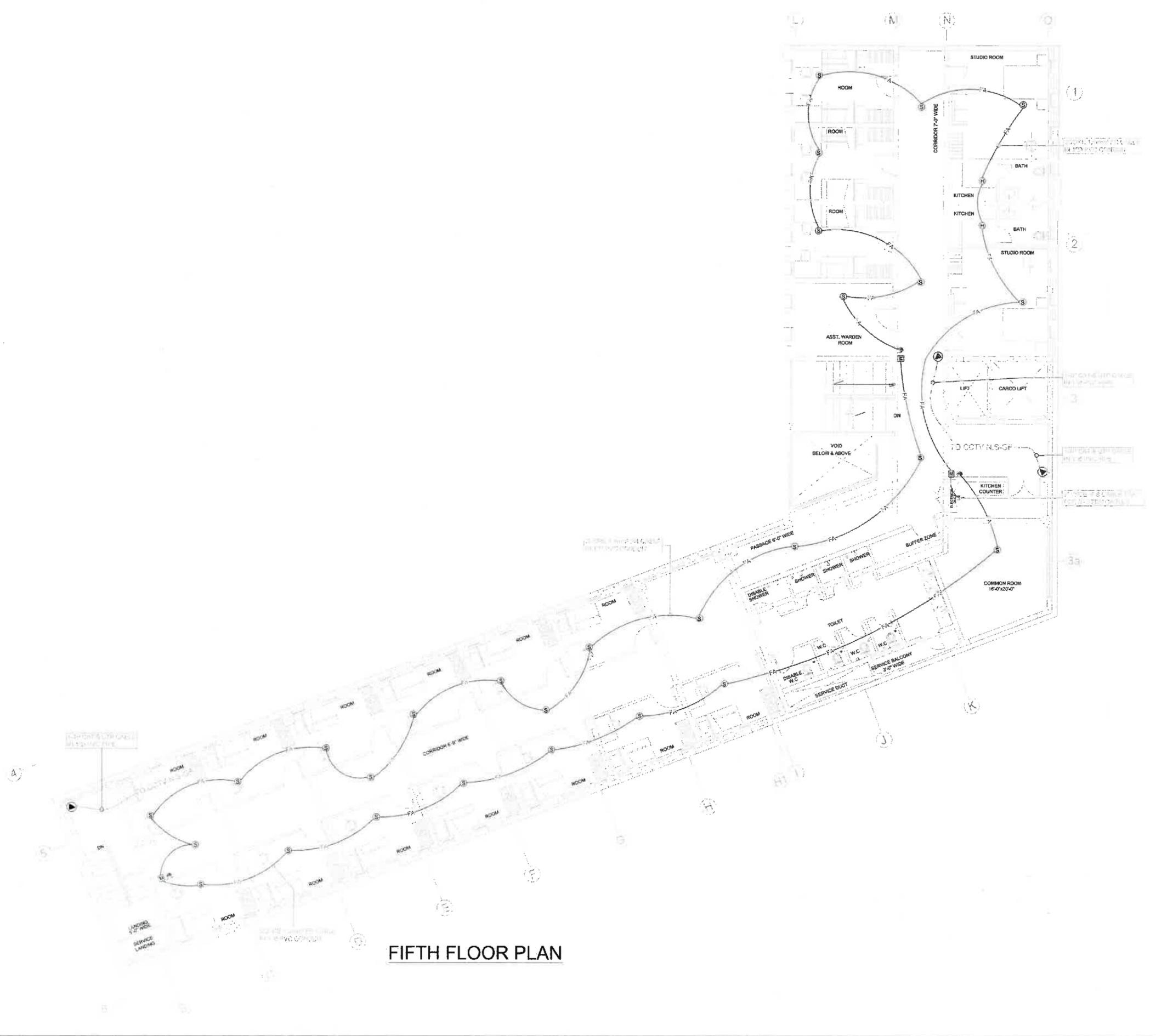
PACKAGE:

TITLE:  
**CCTV & FIRE ALARM LAYOUT PLAN FOURTH FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:

DRAWING NO. **E-24**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original should be retained in case of any discrepancy.



**FIFTH FLOOR PLAN**

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-C/46, Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Phone: +92-42-3511723, 3611024  
 Fax: +92-42-3511722  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208 - A - UPPER HALL, LAHORE  
 TEL: 35713813 - 35874835  
 35872059 - FAX: 35703408  
 EMAIL: IAA@IAACONSULTANTS.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

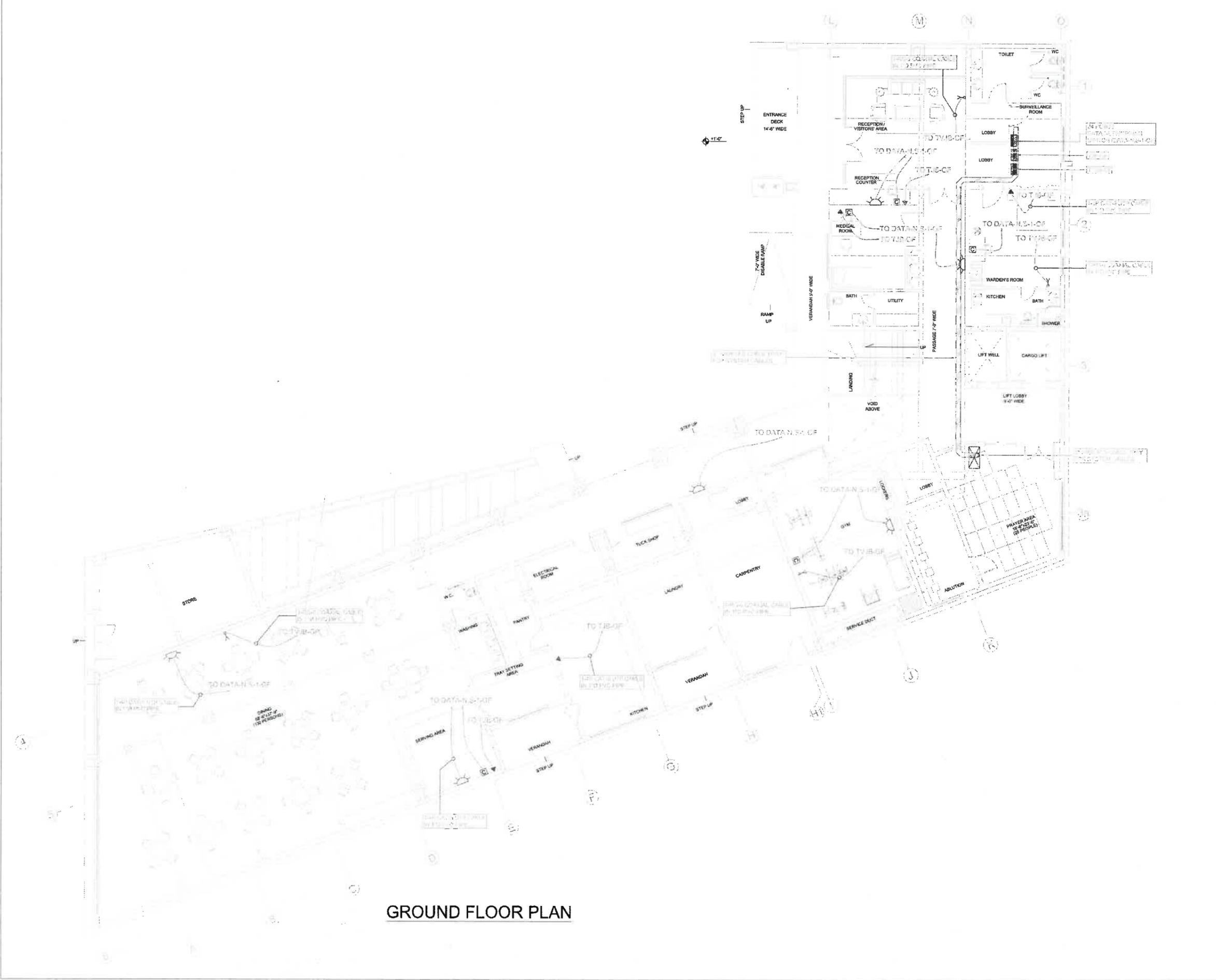
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**CCTV & FIRE ALARM LAYOUT PLAN FIFTH FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	-
DRAWING NO.	E-25

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or preparing shop drawings. The signature should be verified in accordance with any discrepancy.



**GROUND FLOOR PLAN**

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 25-CHE: Connaught Area Township, Lahore, Punjab, Pakistan  
 P.O. Box: 42-25117-23, 25117-24  
 Tel: 35870859 - Fax: 35758306  
 E-Mail: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208 - A - UPPER HALL, LAHORE  
 TEL: 35713813 - 35874825  
 35870859 - Fax: 35758306  
 E-MAIL: MAIL@IAASULTANET.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

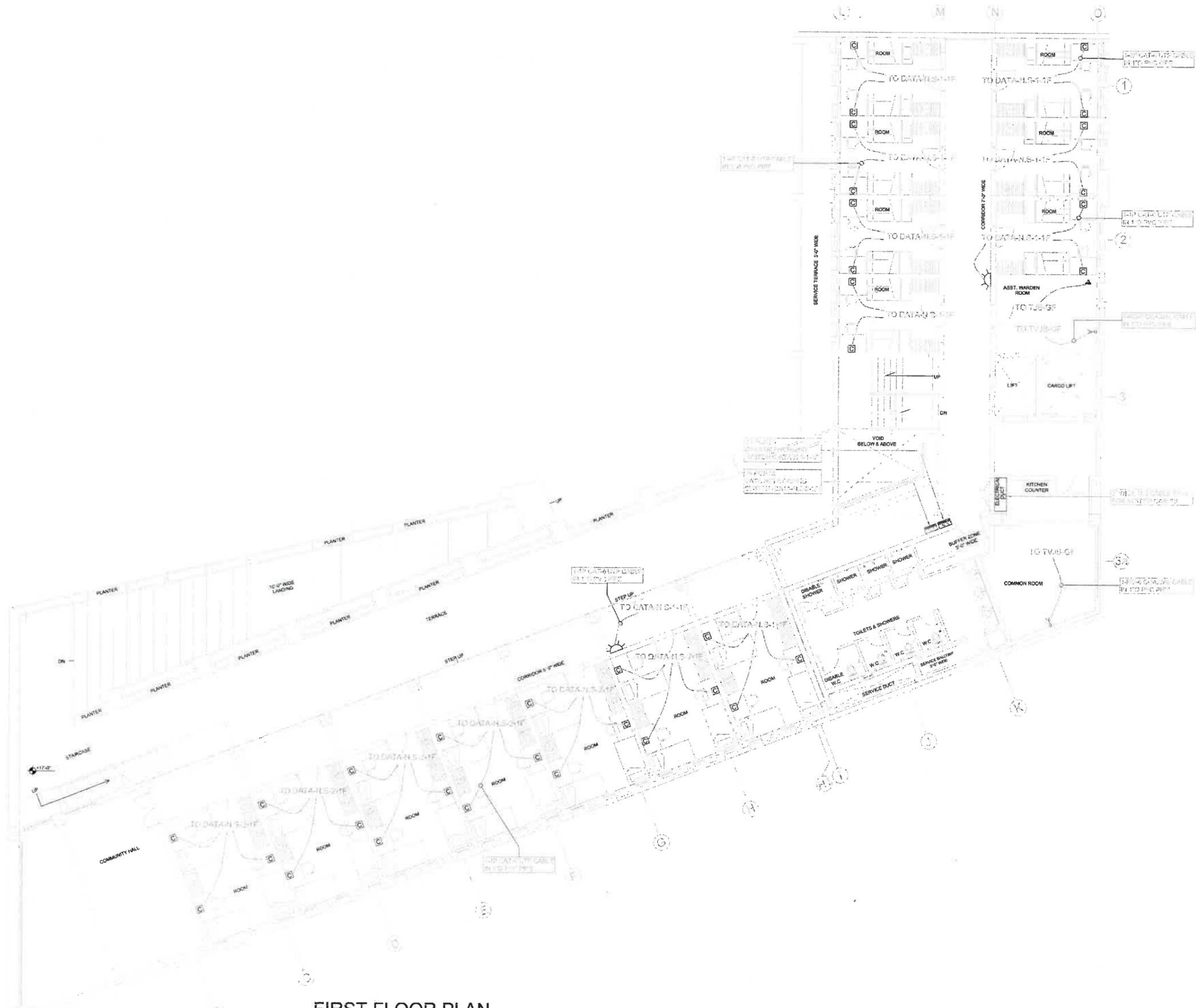
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN GROUND FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:  
 DRAWING NO.: E-26

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



FIRST FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 26-Chester Commercial Area, Sherah, Lahore, Punjab, Pakistan  
 Phone: 352-2011121, 3511214  
 Fax: 352-2011222  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - INTIAZ ALI ASSOCIATES (PVT) LTD**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 299 - A, UPPER HALL, LAHORE,  
 TEL: 35973113, 33474835  
 33870389 - FAX: 33783488

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

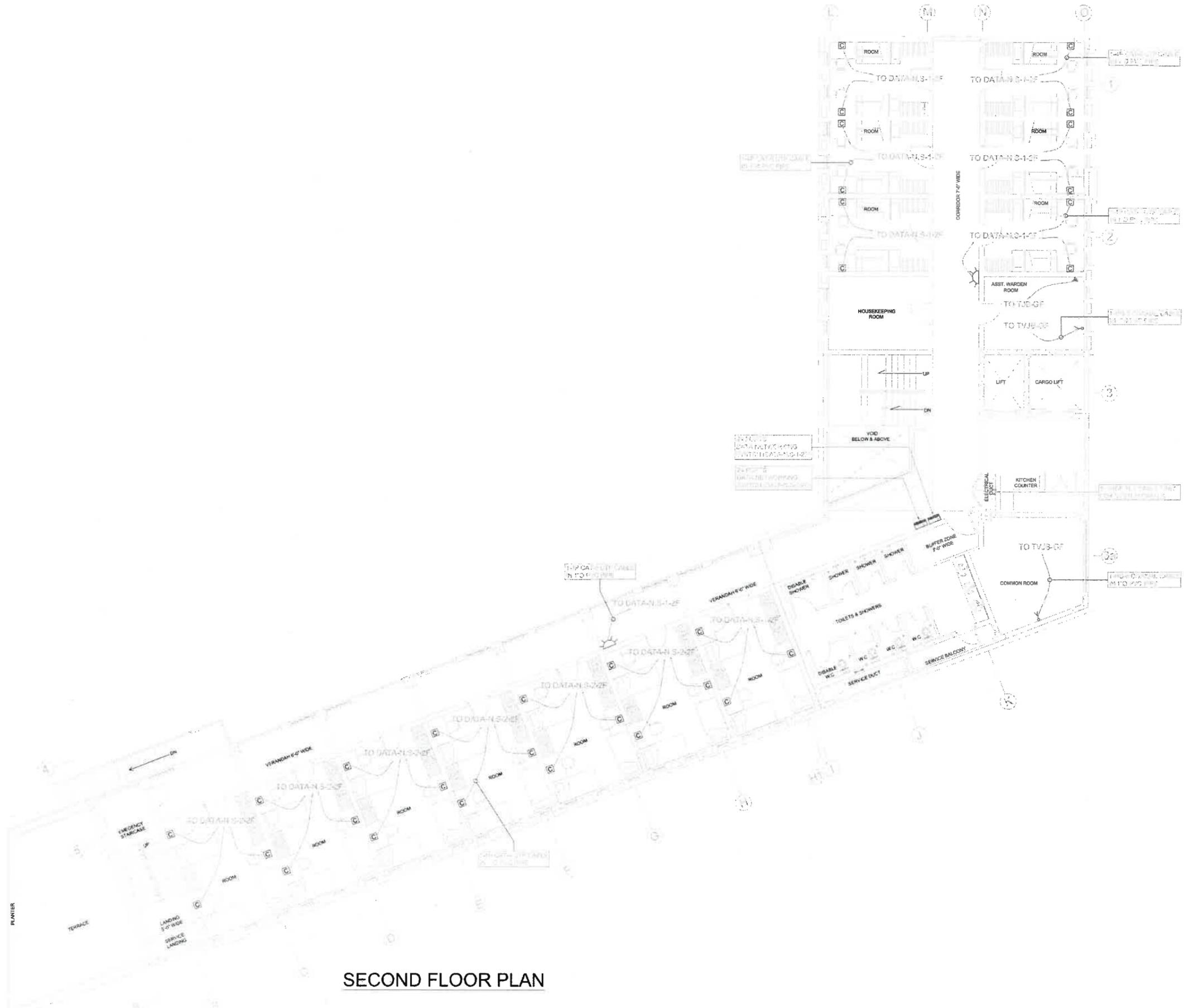
PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN FIRST FLOOR**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S.  
 PROJECT NO.

DRAWING NO. **E-27**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions shall be checked and verified on site before commencing any work or producing shop drawings. The original shall be retained for availability of any discrepancy.



SECOND FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24/246, Center Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: +92-42-3511123, 3511334  
 Fax: +92-42-3511333  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 27B - 4, UPPER HALL, LAHORE  
 TEL: 35713813 - 35874829  
 35872897 - Fax: 35753408

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

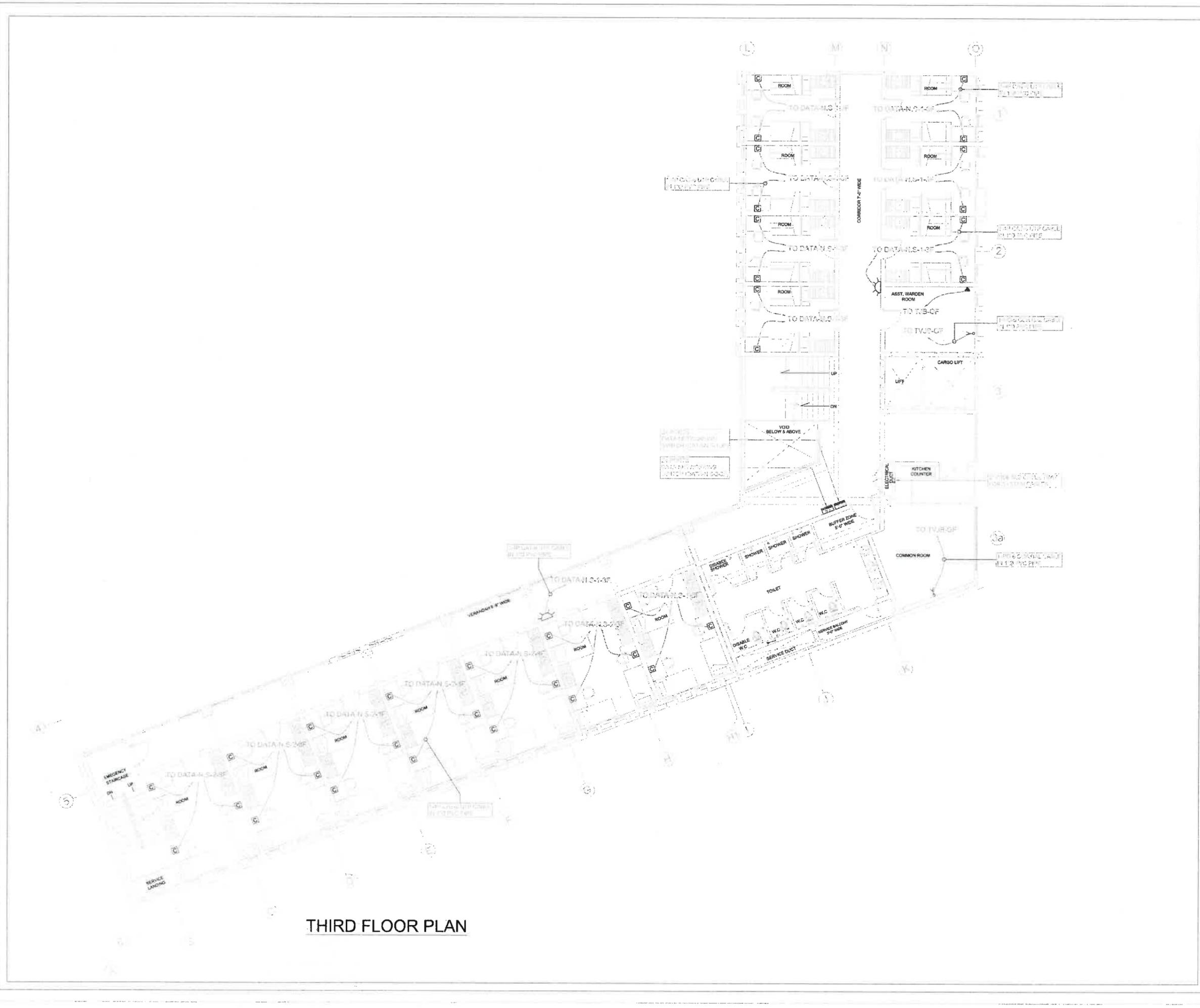
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN SECOND FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	@AS N.T.S
PROJECT NO.	
DRAWING NO.	E-28

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original shall be retained for reference of any discrepancy.



THIRD FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 25/26/27/28/29 Commercial Area, Ferozpur, Lahore, Punjab, Pakistan  
 Tel: +92-42-3511132, 3511134  
 Fax: +92-42-3511133  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 299-A - UPPER HALL, LANDRI, T-9, D-97/128, S-3, SE-74/25, 55872559, F-101, 55702436  
 EMAIL: IAA@IAAARCHITECT.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

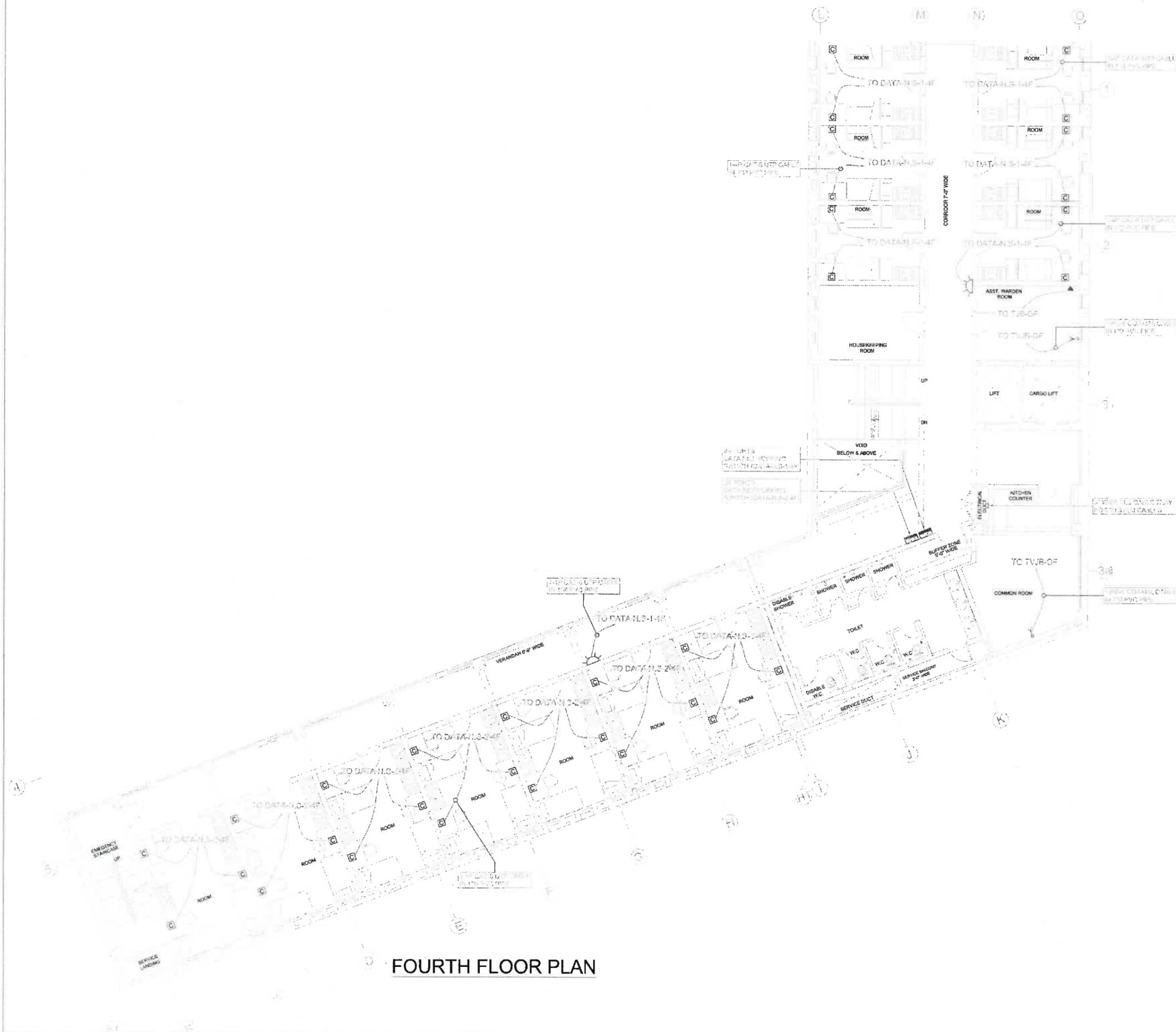
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN THIRD FLOOR**

DATE | MAY-2021  
 DRAWN BY | USMAN  
 SCALE | @A2 | N.T.S  
 PROJECT NO. | -  
 DRAWING NO. | E-29

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately in any discrepancy.



FOURTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Child Center Commercial Area, Townships, Lahore, Punjab, Pakistan  
 Pak: +92-20113123, 20112124  
 Fax: +92-20113122  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 270-A - UPPER HALL, LAHORE  
 TEL: 3771315 - 33674828  
 33672238 - FAX: 33672488  
 EMAIL: PAA@IAASOLUTIONS.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

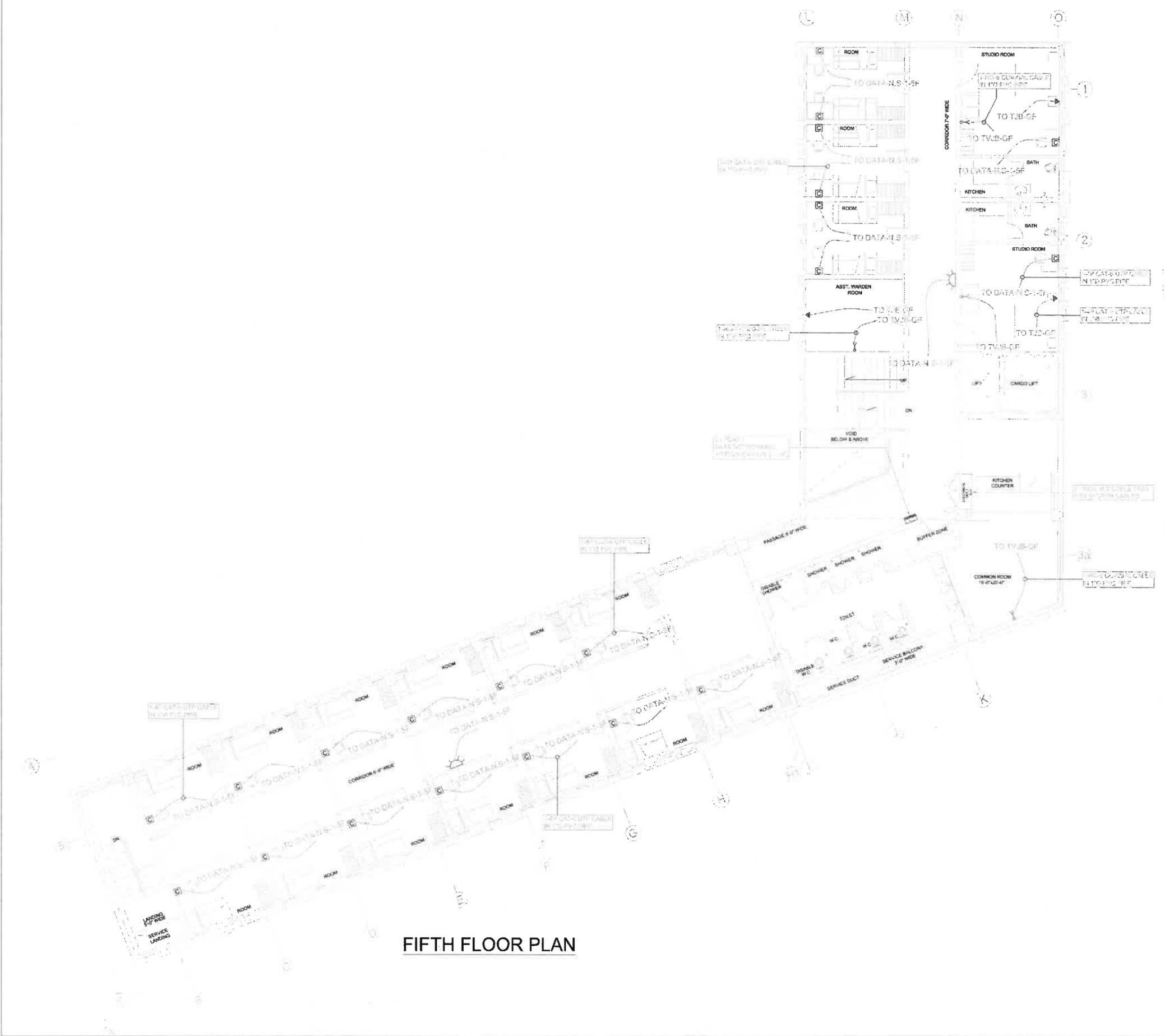
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN FOURTH FLOOR**

DATE | MAY-2021  
 DRAWN BY | USMAN  
 SCALE | @A2 | N.T.S  
 PROJECT NO. | -  
 DRAWING NO. | E-30

This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding into drawings. The engineer shall be held responsible of any discrepancy.



FIFTH FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-C/10 Center Commercial Area, Townships, Lahore, Pakistan  
 Phone: +92-321-3511222, 3511224  
 Fax: +92-321-3511222  
 Email: jers@jers.com.pk, jers@jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 200 - A - UPPER HALL, LAHORE  
 TEL: 35712815 - 35748825  
 35757025 - FAX: 35757405  
 EMAIL: iaa@iamanulhady.com

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

TITLE  
**TELEPHONE & DATA LAYOUT PLAN FIFTH FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	@A2 N.T.S
PROJECT NO.	

DRAWING NO. **E-31**

This drawing is to be used in conjunction with all related drawings. Do not copy from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator would be liable for any discrepancy.



**GROUND FLOOR PLAN**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-Clis Center Commercial Area Townsho, Lahore, Punjab, Pakistan  
 Mob: +92-323-11132, 311314  
 Fax: +92-323-11132  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 236-A - UPPER HALL, LAHORE  
 TEL: 35712818 - 35674285  
 35672859 - Fax: 35738488  
 E-MAIL: iaa@maahall.com

**CLIENT**

**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

**PROJECT**

**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

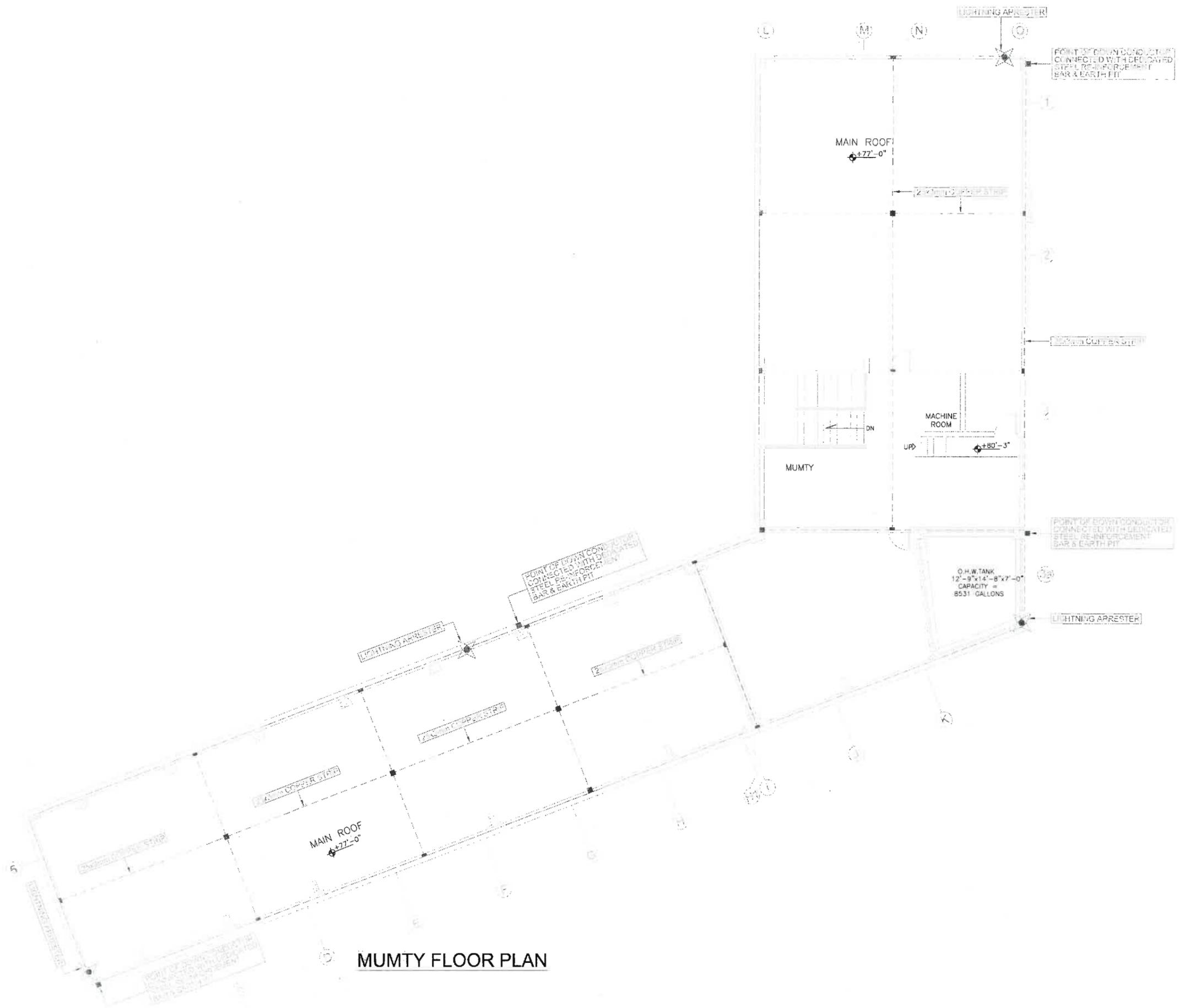
**PACKAGE**

**TITLE**

**LIGHTNING PROTECTION LAYOUT GROUND FLOOR**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	AS SHOWN
PROJECT NO.	N.T.S
DRAWING NO.	E-32

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer shall be notified immediately of any discrepancy.



MUMTY FLOOR PLAN

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-Gate Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Phone: 352-2311312, 3511314  
 Fax: 352-2311325  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES**  
 (PVT. LTD)  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208 - A - UPPER MALL, LAHORE  
 TEL: 35713913 - 35748833  
 35702839 - FAX: 35703458

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

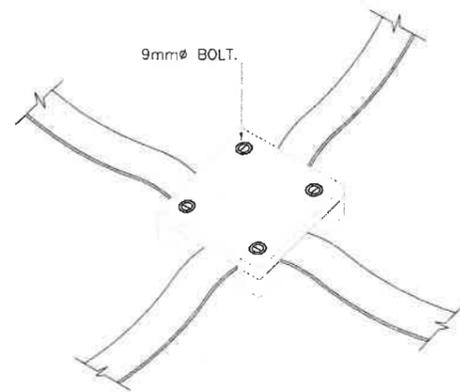
PACKAGE

TITLE  
**LIGHTNING PROTECTION LAYOUT TOP ROOF**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	@A2 N.T.S
PROJECT NO.	

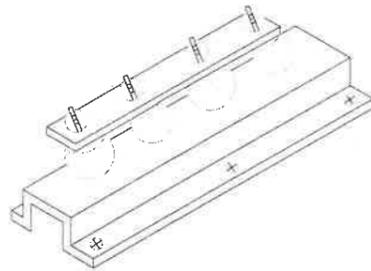
DRAWING NO. **E-33**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator shall be held responsible for any discrepancy.

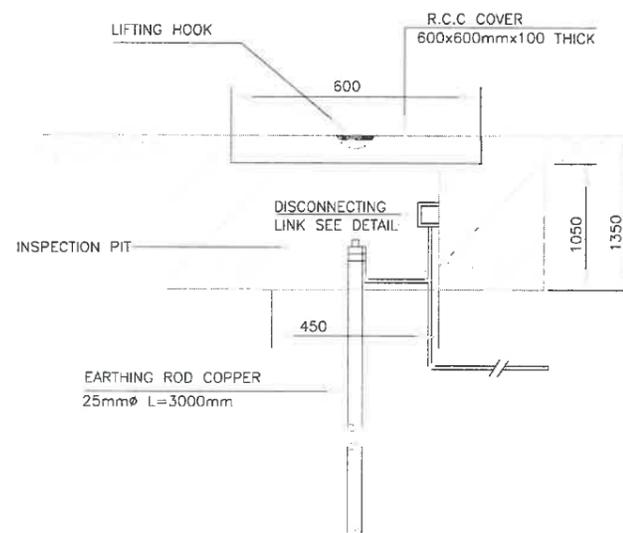


ISOMETRIC VIEW.

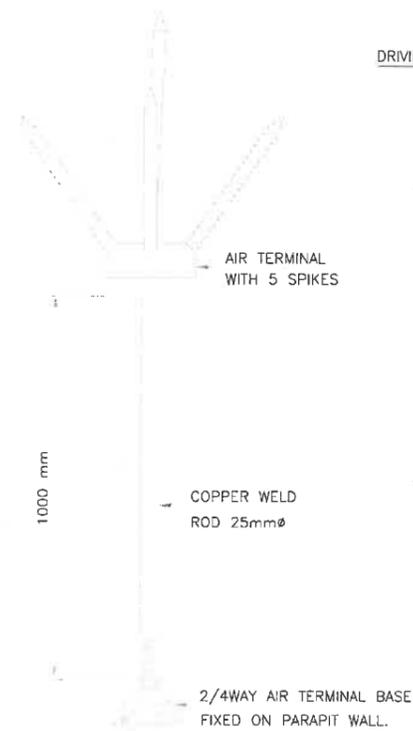
DETAIL FOR CROSSING OF COPPER STRIP.



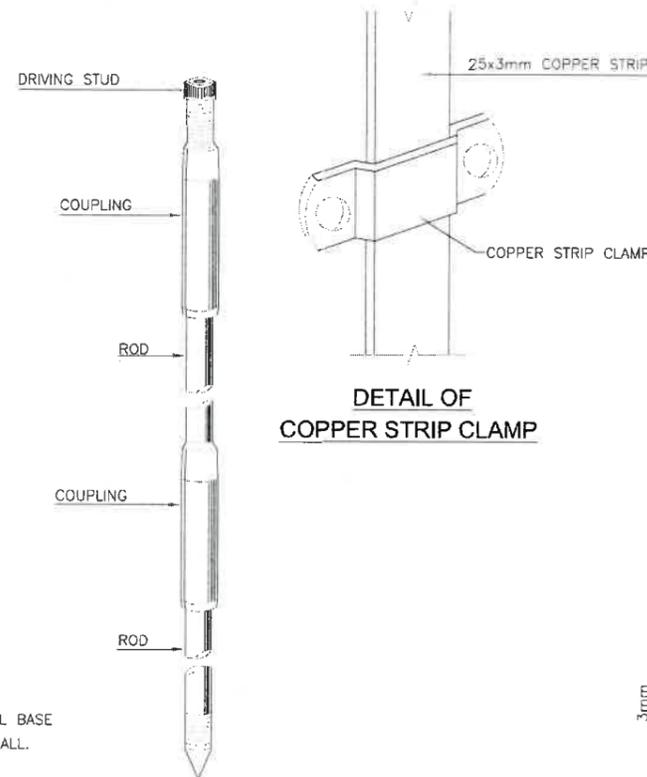
DISCONNECTING LINK



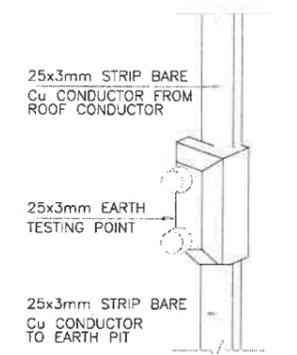
EARTHING DETAIL.



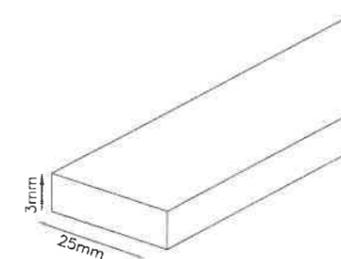
DETAIL OF LIGHTNING ARRESTOR



DETAIL OF EARTHING ELECTRODE



EARTH TESTING POINT



DETAIL OF COPPER STRIP

LIGHTNING PROTECTION SYSTEM

NO	DESCRIPTION	LOCATION	SYMBOLS	MOUNTING HEIGHT
1	LIGHTNING ARRESTOR-AIR TERMINAL WITH 5 SPIKES	ON ROOF		SEE DETAIL
2	COPPER STRIP 25mmx3mm INSTALLED ON ROOF	ON ROOF		FIXED ON ROOF
3	DOWN CONDUCTOR 25x3mm	ON WALL		FIXED ON WALL
4	INDICATES EARTHING AT GROUND FLOOR	SEE DRG.		-
5	COPPER DISCONNECTING TEST LINK 300x50x12.5mm	GIP		-
6	25mmØ COPPER WELD 3000mm ROD	SEE DRG.		-
7	BRICK MAN HOLE 450x450x450mm ON TOP OF ELECTRODE	SEE DRG.		-
8	STRANDED COPPER CONDUCTOR	SEE DRG.		-
9	GROUNDING INSPECTION PIT.	SEE DRG.		-

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-CHS Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Phone: 352-2311723, 35113724  
 Fax: 352-2311322  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208-A - UPPER HALL, LAHORE  
 TEL: 359712815 - 35974825  
 35972355 - FAX: 35973858

CLIENT

PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE

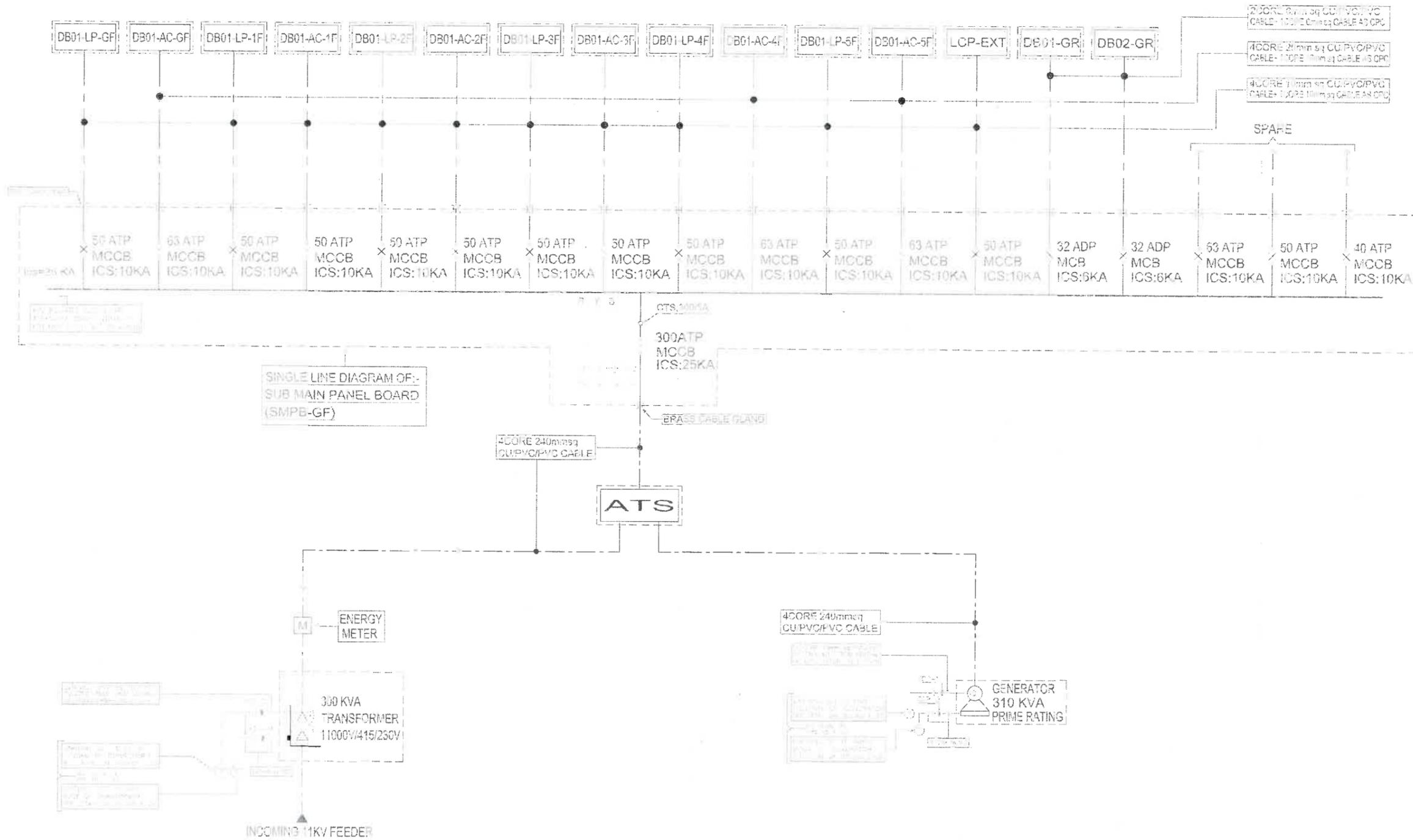
TITLE

LIGHTNING PROTECTION MISCELLANEOUS DETAILS

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @AS  
 PROJECT NO.: -

DRAWING NO.: E-34

This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or providing shop drawings. The original should be retained immediately in any discrepancy.



SINGLE LINE DIAGRAM OF:-  
SUB MAIN PANEL BOARD  
(SMPB-GF)

ENERGY METER

300 KVA  
TRANSFORMER  
11000V/415/230V

INCOMING 11KV FEEDER

ATS

300 ATP  
MCCB  
ICS: 25KA

GENERATOR  
310 KVA  
PRIME RATING

MEP CONSULTANTS:  
**JERS CONSULTANCY (PVT) LTD**  
24-CHS, Dera Commercial Area, Township, Lahore, Pakistan  
Tel: +92-42-3511112, 3511124  
Fax: +92-42-3511123  
E-mail: info@jers.com.pk  
Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
ARCHITECTS - ENGINEERS - PLANNERS  
29B - A - UPPER HALL, LAHORE  
TEL: 35712115 - 35712116  
35712117 - 35712118  
E-MAIL: IAA@IAAARCHITECTS.PK

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

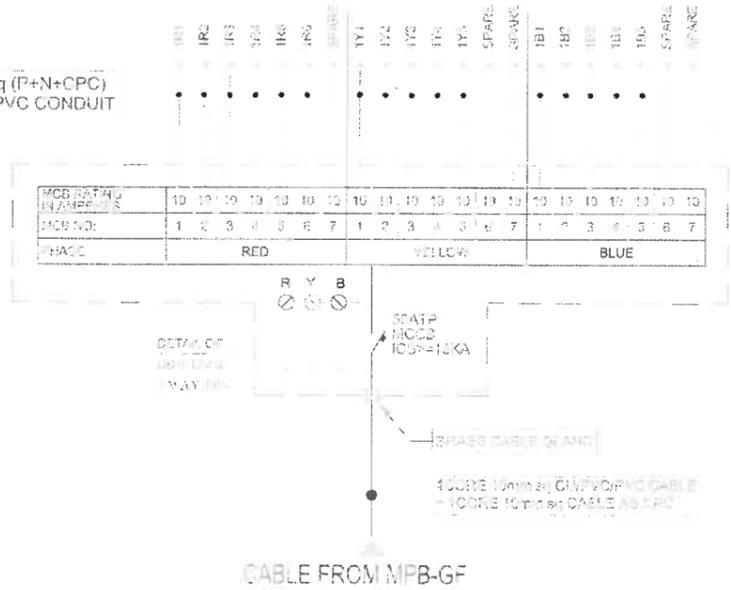
TITLE  
**SINGLE LINE DIAGRAM OF:- MAIN PANEL BOARD (MPB-GF)**

DATE: MAY-2021  
DRAWN BY: USMAN  
SCALE: @A2 N.T.S  
PROJECT NO.:

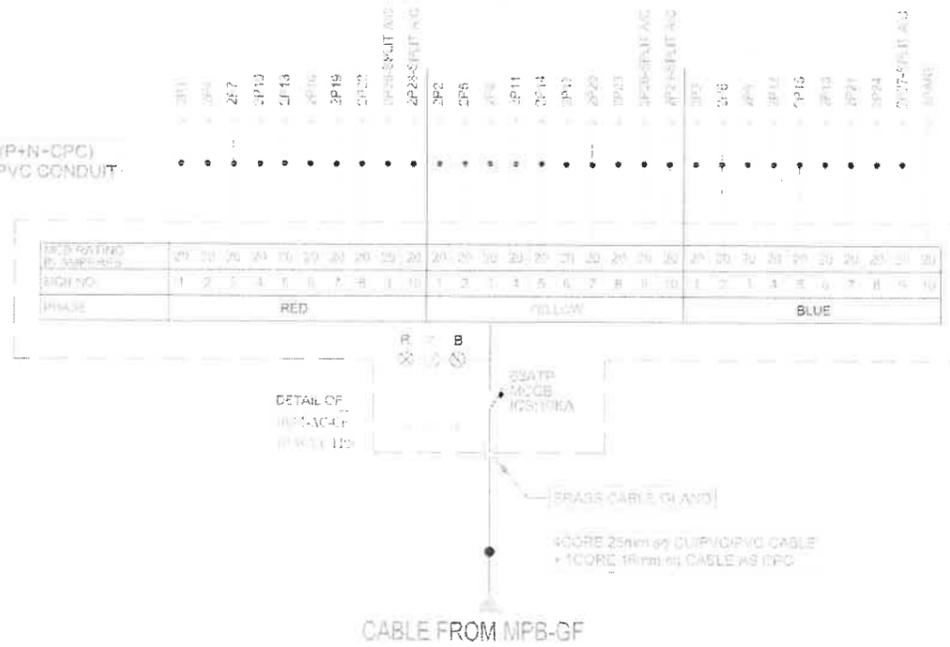
DRAWING NO. SLD-01

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing any copies. The engineer shall be notified immediately in any discrepancy.

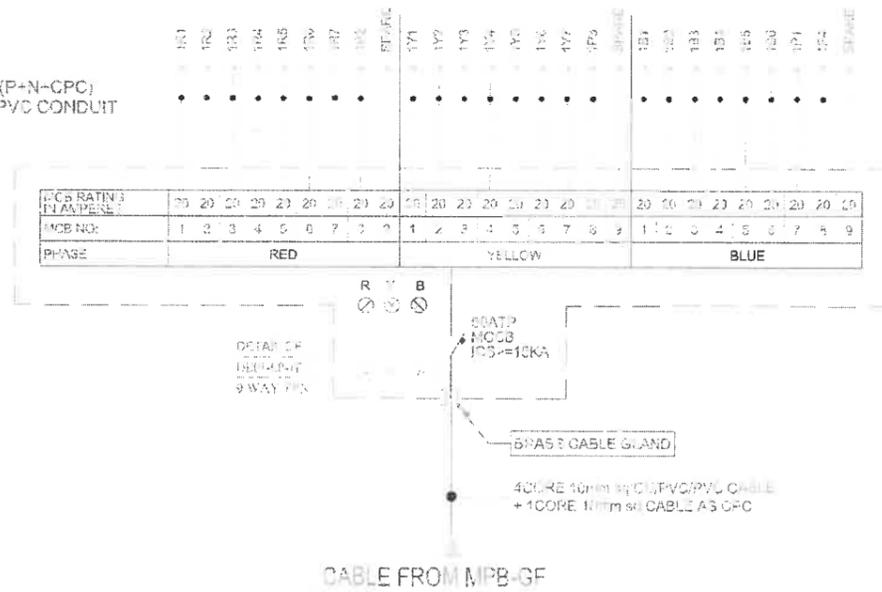
3x2.5mmsq (P+N+CPC)  
IN 1" DIA PVC CONDUIT



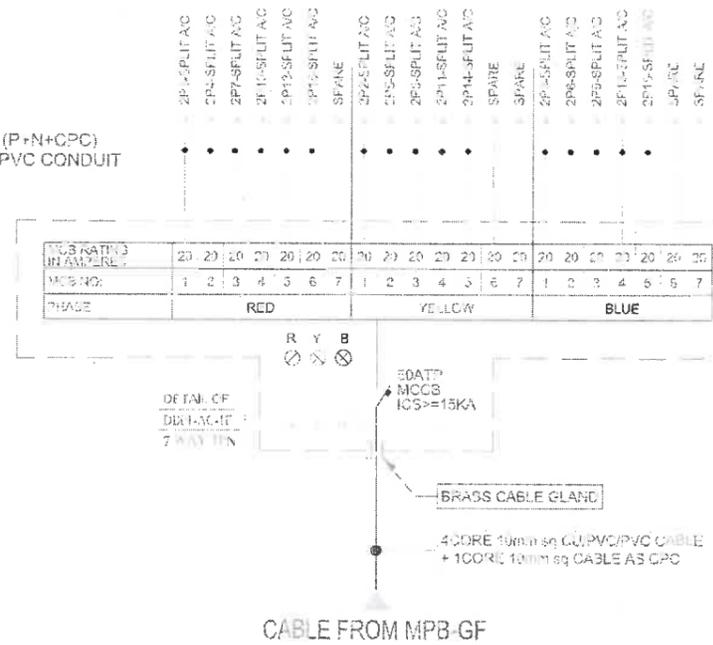
3x4mmsq (P+N+CPC)  
IN 1" DIA PVC CONDUIT



3x4mmsq (P+N+CPC)  
IN 1" DIA PVC CONDUIT



3x4mmsq (P+N+CPC)  
IN 1" DIA PVC CONDUIT



MEP CONSULTANTS:



ARCHITECTS - ENGINEERS - PLANNERS  
207-A - UPPER HALL, LAHORE  
TEL: 35712818 - 35874828  
35872339 - FAX: 3574828  
EMAIL: iaa@iaaconsultants.com

CLIENT  
PAKISTAN INSTITUTE OF FASHION AND DESIGN

PROJECT  
PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

PACKAGE

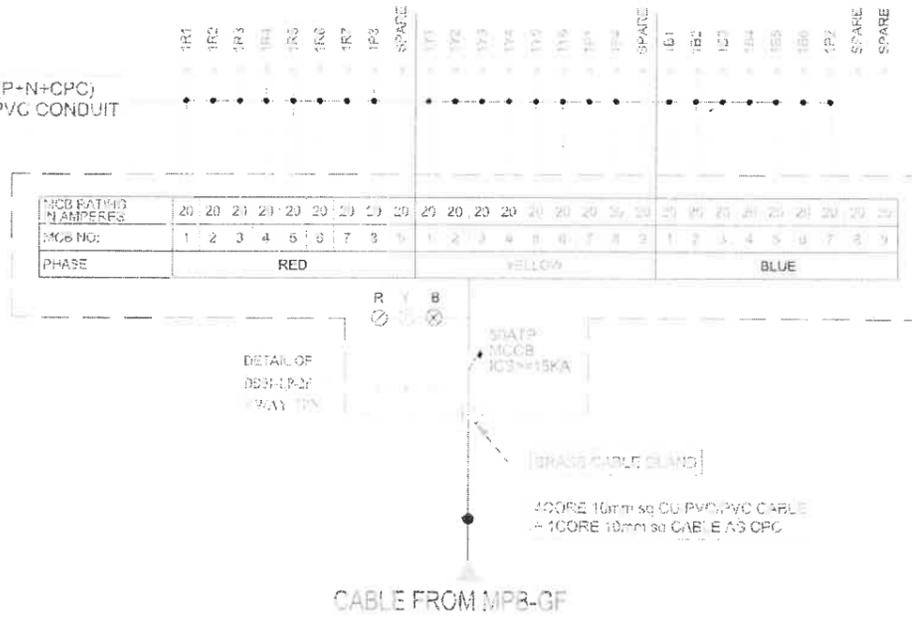
TITLE  
SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)

DATE: MAY-2021  
DRAWN BY: USMAN  
SCALE: @A2  
PROJECT NO.: N.T.S

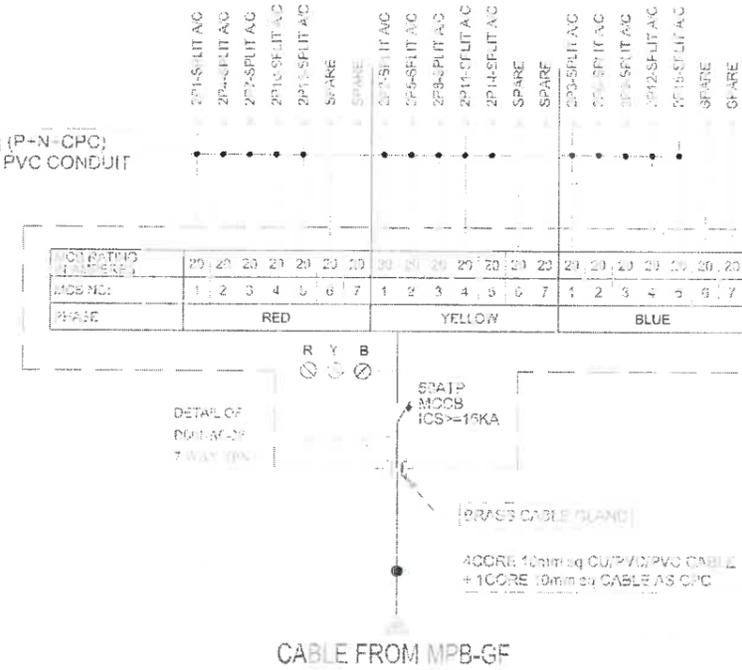
DRAWING NO.: SLD-02

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work to produce the drawings. The originator should be notified immediately of any discrepancy.

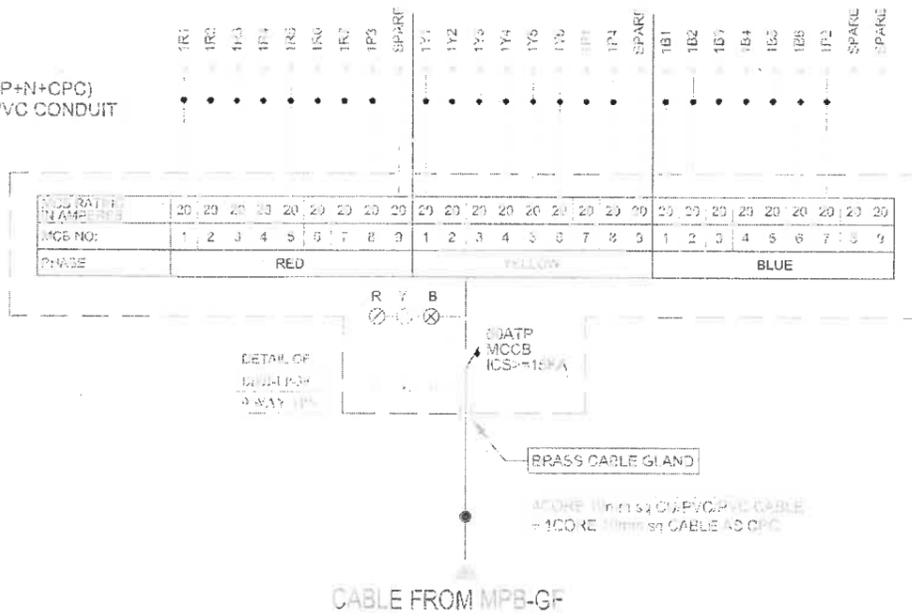
3x4mm<sup>2</sup> (P+N+CPC)  
IN 1" DIA PVC CONDUIT



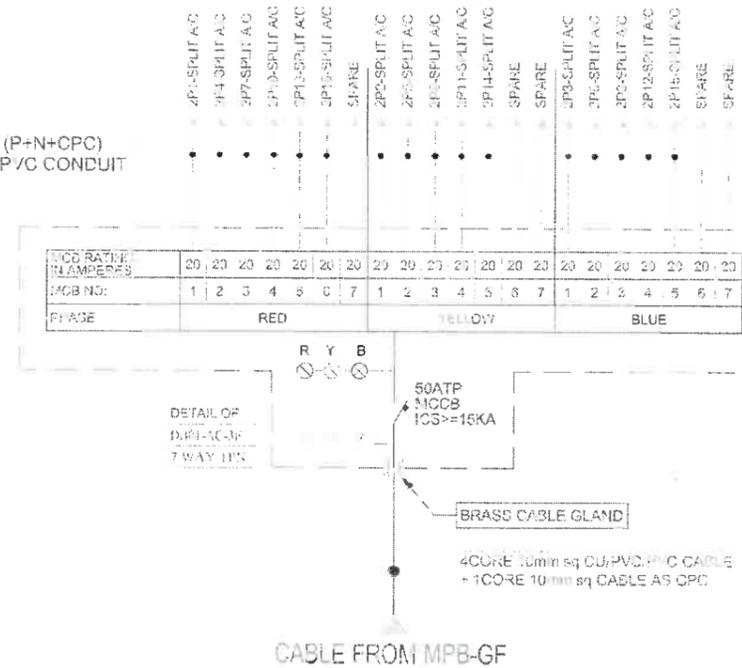
3x4mm<sup>2</sup> (P+N+CPC)  
IN 1" DIA PVC CONDUIT



3x4mm<sup>2</sup> (P+N+CPC)  
IN 1" DIA PVC CONDUIT



3x4mm<sup>2</sup> (P+N+CPC)  
IN 1" DIA PVC CONDUIT



MEP CONSULTANTS:



ARCHITECTS - ENGINEERS - PLANNERS  
22B, 1-A UPPER HALL, LAHORE  
TEL: 3574218 - 3574222  
3574228 - FAX: 3574228  
EMAIL: MAIL@IAAARCHITECTS.COM

CLIENT

PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

PACKAGE

TITLE

SINGLE LINE DIAGRAM OF-  
DISTRIBUTION BOARDS (DBS)

DATE

MAY-2021

DRAWN BY

USMAN

SCALE

N.T.S

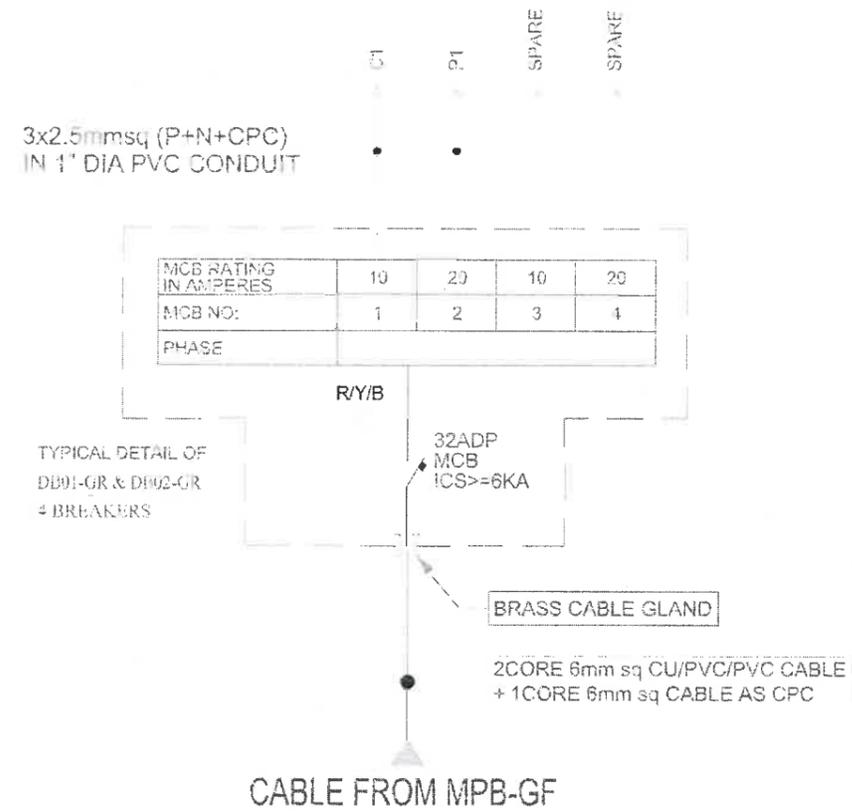
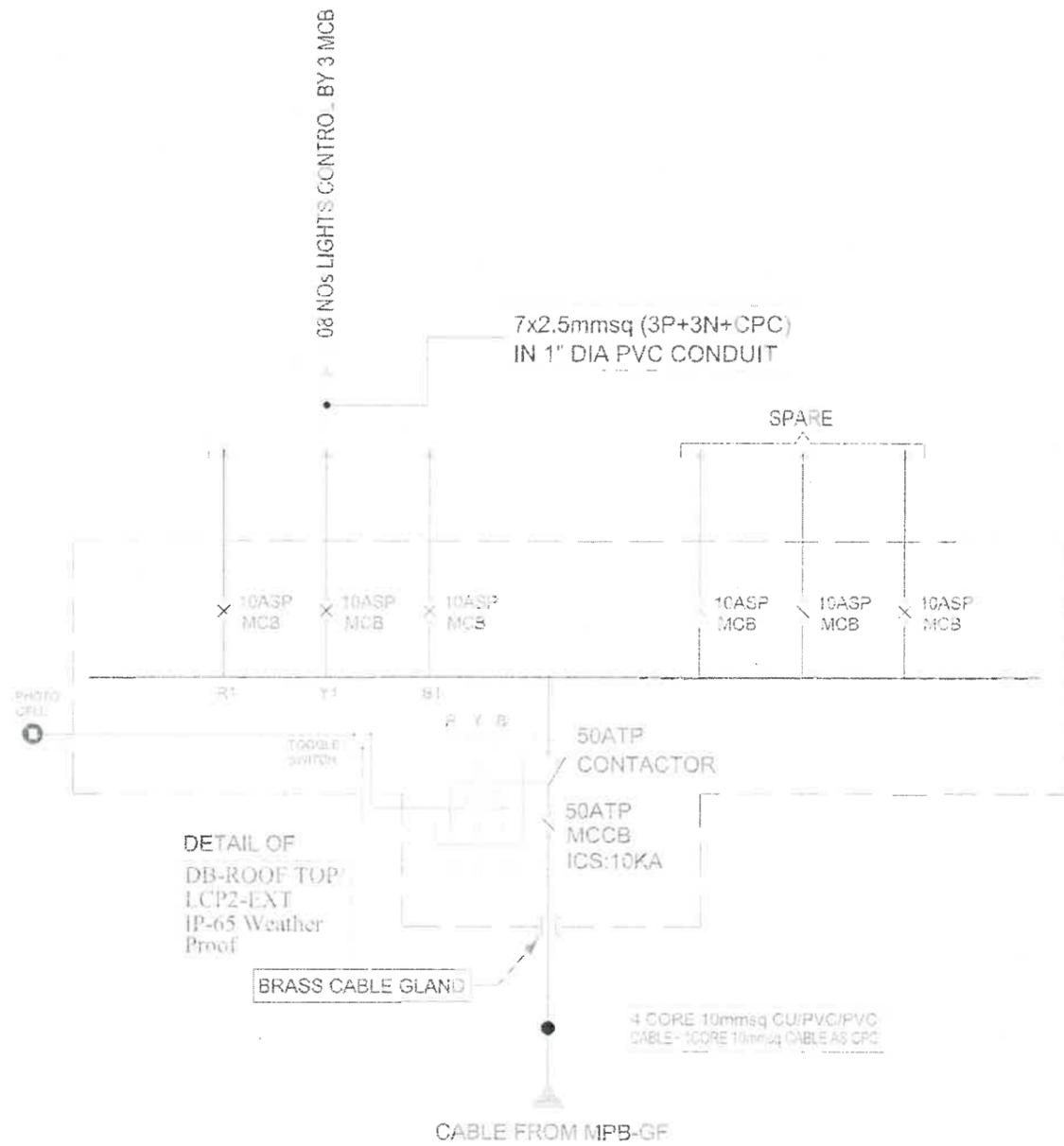
PROJECT NO.

DRAWING NO.

SLD-03

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing any drawings. The contractor should be notified immediately of any discrepancy.





MEP CONSULTANTS:  
**JERS CONSULTANCY (PVT) LTD**  
 24-CHIC Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Mob: 9992011122, 9911212  
 Fax: 9992011122  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 208 - A - UPPER MALL, LAHORE  
 TEL: 35718119 - 3574883  
 35772859 - FAX: 37767458  
 EMAIL: iaa@iaaconcept.com

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE  
 TITLE  
**SINGLE LINE DIAGRAM OF:- DISTRIBUTION BOARDS (DBS)**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @AS N.T.B  
 PROJECT NO: -

DRAWING NO. SLD-05

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding shop drawings. The drafter shall be held immediately of any discrepancy.



FUTURE EXTENSION  
(BOYS HOSTEL)  
AREA = 23197 Sft.  
K-5



MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 24-GHz, Center Commercial Area Township, Lahore, Punjab, Pakistan  
 Phone: 9952-2911121, 9910724  
 Fax: 9952-2911122  
 Email: info@jers.com.pk  
 Website: www.jers.com.pk

**IAA - IMTIAZ ALL ASSOCIATES**  
 (PVT. LTD)  
 ARCHITECTS - ENGINEERS - PLANNERS  
 20B - A - UPPER MALL, LAHORE  
 TEL: 99712818 - 99748828  
 DRIFTING - TALK 2078808  
 EMAIL: IAA@IAAARCHITECT.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

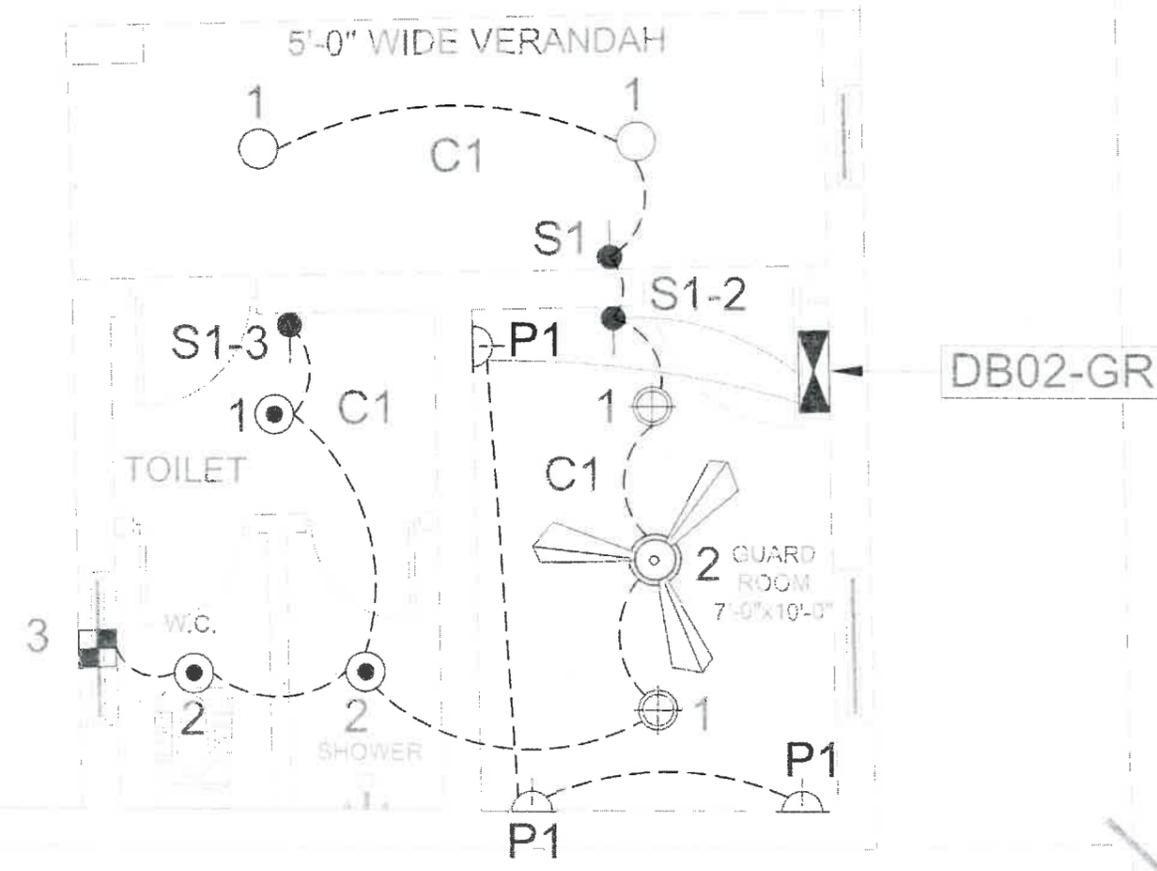
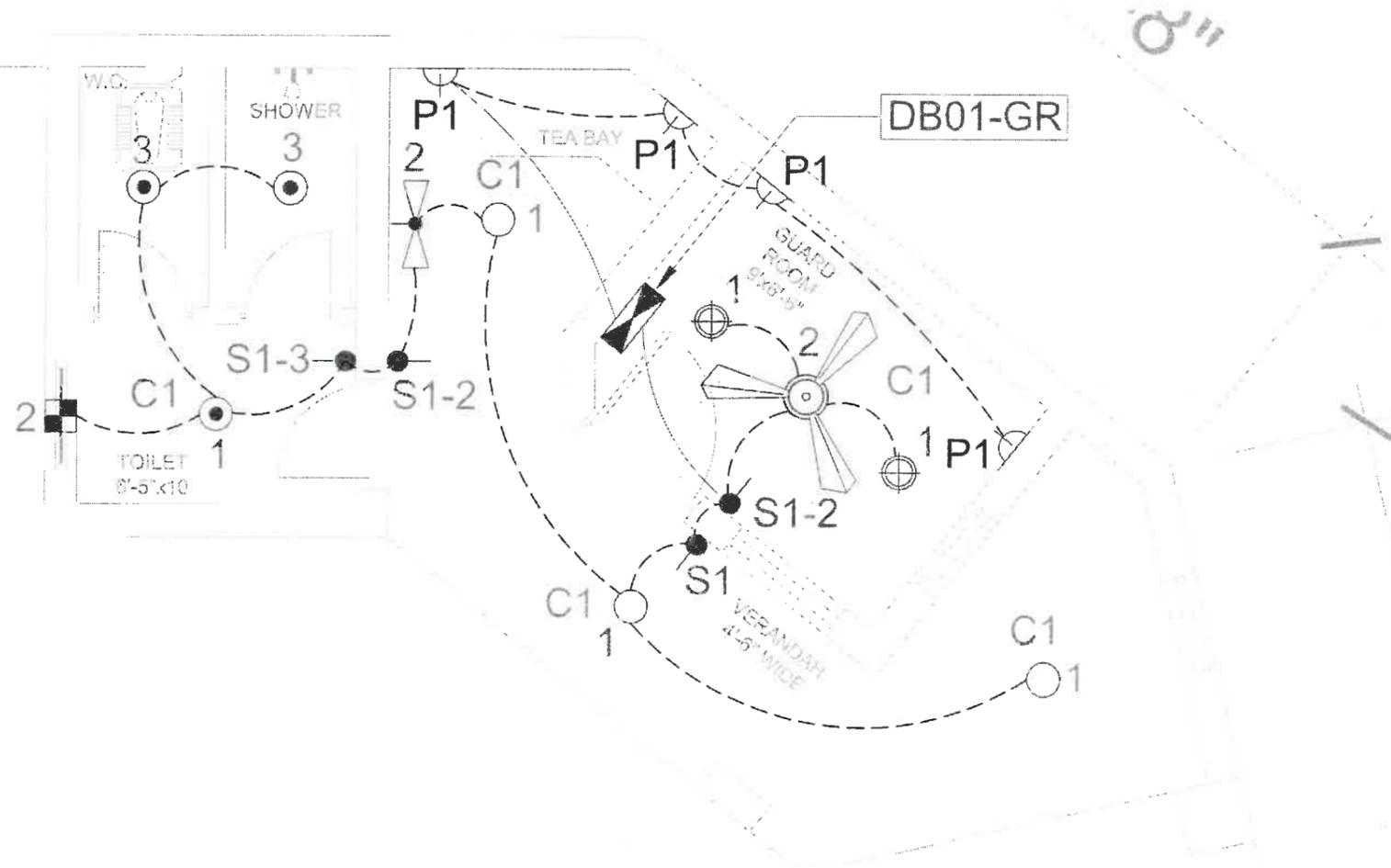
PACKAGE

TITLE  
**LIGHTING LAYOUT MASTER PLAN**

DATE | MAY-2021  
 DRAWN BY | USMAN  
 SCALE | @A2 | N.T.S  
 PROJECT NO. |

DRAWING NO. | **EXT-01**

This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing any drawings. The copyright shall be notified immediately in any discrepancy.



MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 25-Clife, Center Commercial Area, Townshp, Lahore, Punjab, Pakistan  
 Tel: +9243311125, 3613328  
 Fax: +9243311122  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 20A - 8, LAFICOR WALL, LAHORE.  
 Tel: 35712819 - 35574825 -  
 35470259 - Fax: 35719408  
 Email: iaa@iaaconsultancy.com

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**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

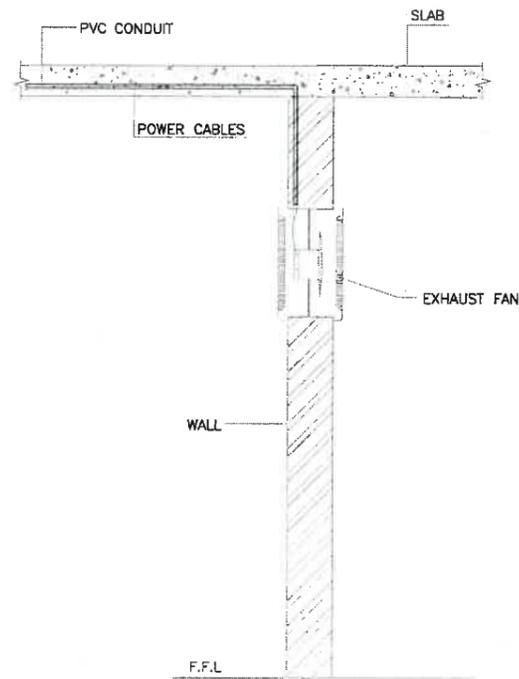
PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

PACKAGE

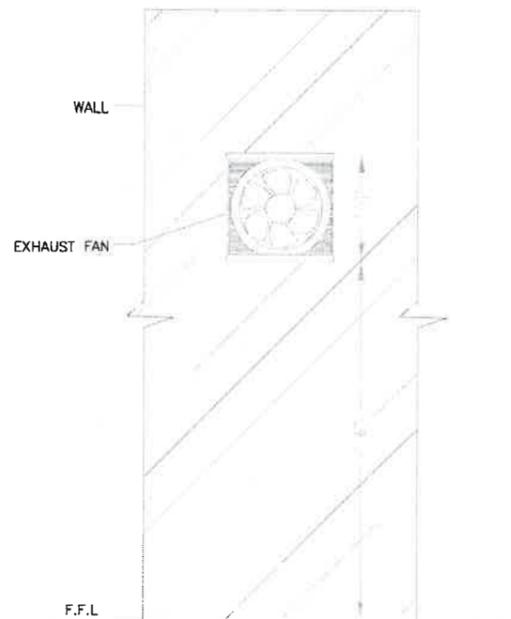
TITLE  
**LIGHTING LAYOUT PLAN  
 GUARD ROOM 1 & 2**

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	
DRAWING NO.	EXT-02

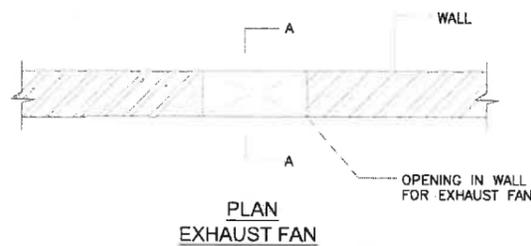
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The original should be verified for validity of any discrepancy.



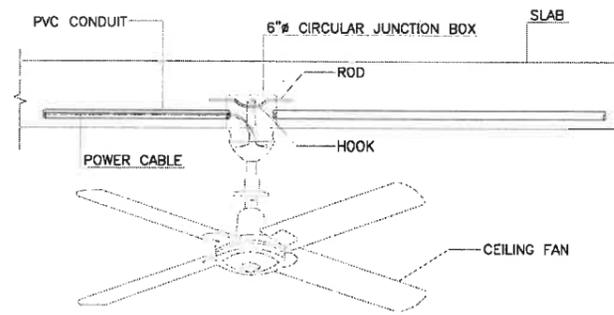
EXHAUST FAN SECTION AT A-A



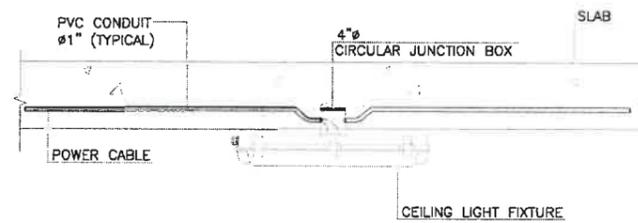
EXHAUST FAN FRONT ELEVATION



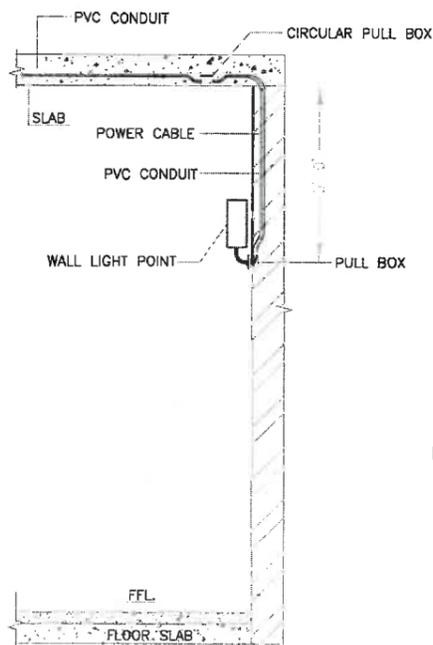
PLAN EXHAUST FAN



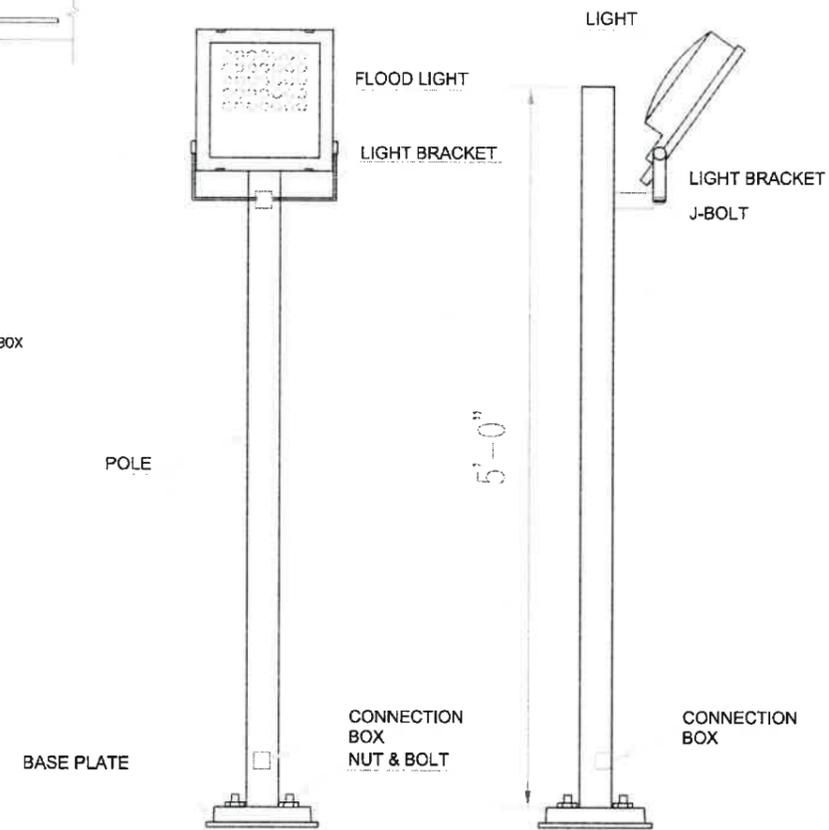
INSTALLATION DETAIL FOR CEILING FAN



INSTALLATION DETAIL FOR SURFACE MOUNTED LIGHT FIXTURE



INSTALLATION DETAIL FOR WALL LIGHT



FLOOD LIGHT FIXING DETAIL

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
 25 Chis Center Commercial Area Toronto, Lahore, Punjab, Pakistan  
 Tel: +92-42-38113123, 36113124  
 Fax: +92-42-38113125  
 Email: info@jers.com.pk  
 Website: www.jers.com.pk

**JAA - INTIAZ ALI ASSOCIATES**  
 (PVT. LTD.)  
 ARCHITECTS - ENGINEERS - PLANNERS  
 222 - 4 - UPPER HALL LANE,  
 TEL: 339713815 - 339748225 -  
 339722233 - FAX: 339733438  
 EMAIL: JAA@SHADHEERHAQ.COM

CLIENT  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

PROJECT  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

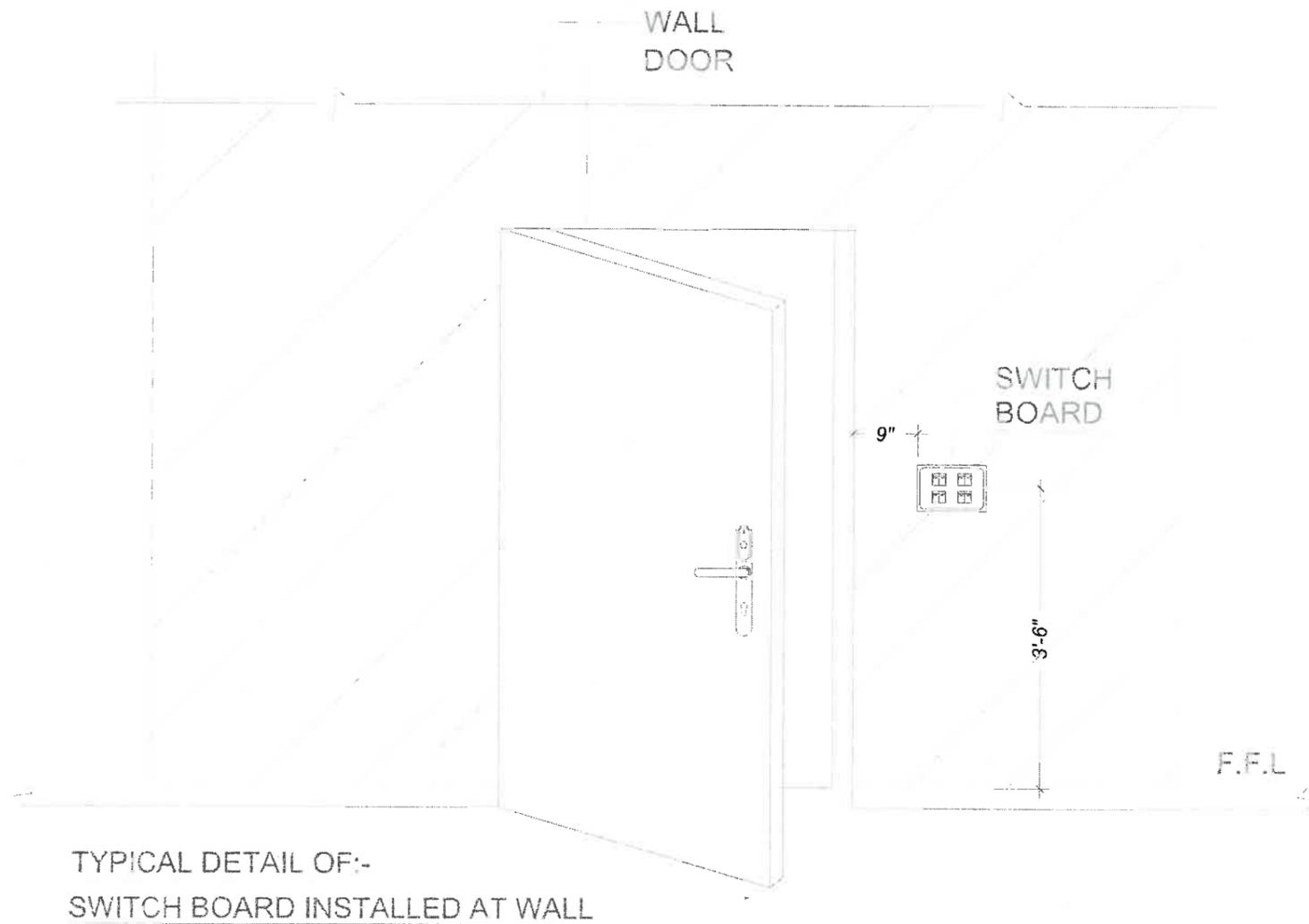
PACKAGE

TITLE  
**LIGHT & FAN FIXING DETAIL**

DATE: MAY-2021  
 DRAWN BY: USMAN  
 SCALE: @A2 N.T.S  
 PROJECT NO.:

DRAWING NO. **EM-01**

This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.



TYPICAL DETAIL OF:-  
SWITCH BOARD INSTALLED AT WALL



TYPICAL FIXING DETAIL OF:-  
DATA, TELEPHONE, POWER PLUG  
& LIGHT PLUG INSTALLED  
ALL TOGETHER AT WALL

TYPICAL FIXING DETAIL OF:-  
DATA OUTLET  
INSTALLED AT WALL

TYPICAL FIXING DETAIL OF:-  
TELEPHONE OUTLET  
INSTALLED AT WALL

TYPICAL FIXING DETAIL OF:-  
POWER PLUG/ LIGHT PLUG  
INSTALLED AT WALL

TYPICAL FIXING DETAIL OF:-  
TV OUTLET  
INSTALLED AT WALL

MEP CONSULTANTS:  
**JERS CONSULTANCY (PVT) LTD**  
25-Chak Central Commercial Area, Townships, Lahore, Punjab, Pakistan  
Phone: +92-42-35119123, 35113124  
Fax: +92-42-35119125  
Email: info@jers.com.pk  
Web: www.jers.com.pk

**IAA - INTIAZ ALI ASSOCIATES**  
(PVT. LTD.)  
ARCHITECTS - ENGINEERS - PLANNERS  
22nd FLOOR, UPPER PHASE, LAHORE  
TEL: 35871481-3 - 35874828  
35872295 - FAX: 35873338  
EMAIL: IAA@IAACONSULTANTS.COM

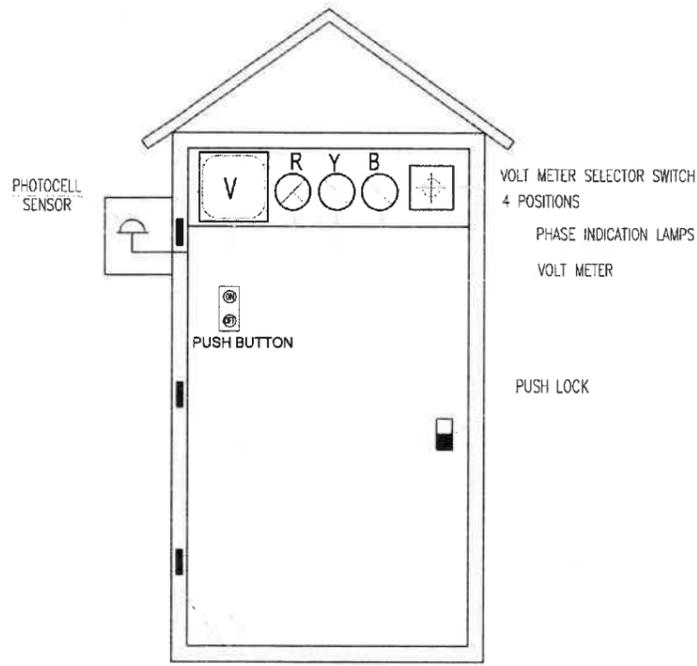
CLIENT  
PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT  
PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

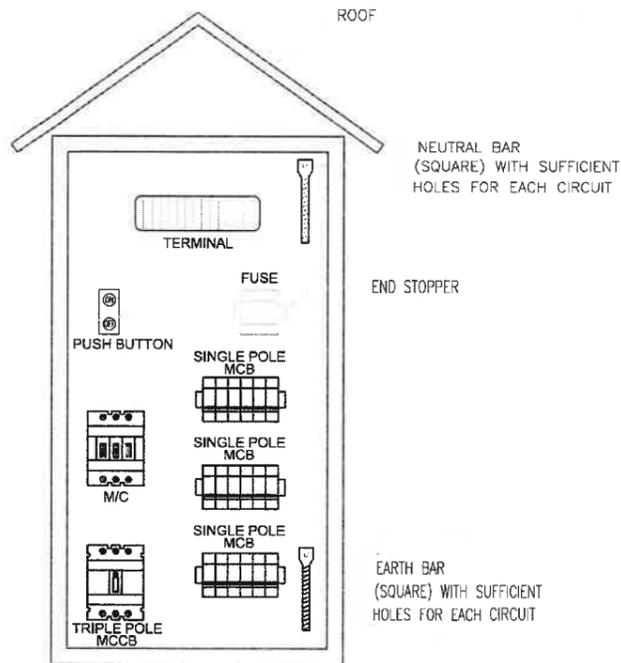
PACKAGE  
TITLE  
STANDARD SWITCH BOARD, LIGHT PLUG,  
POWER PLUG, TV, TELEPHONE & DATA  
OUTLETS FIXING DETAIL

DATE: MAY-2021  
DRAWN BY: USMAN  
SCALE: @A2 N.T.S  
PROJECT NO.:

DESIGNED BY: EM-02  
This drawing is to be used in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The contractor should be notified immediately of any discrepancy.

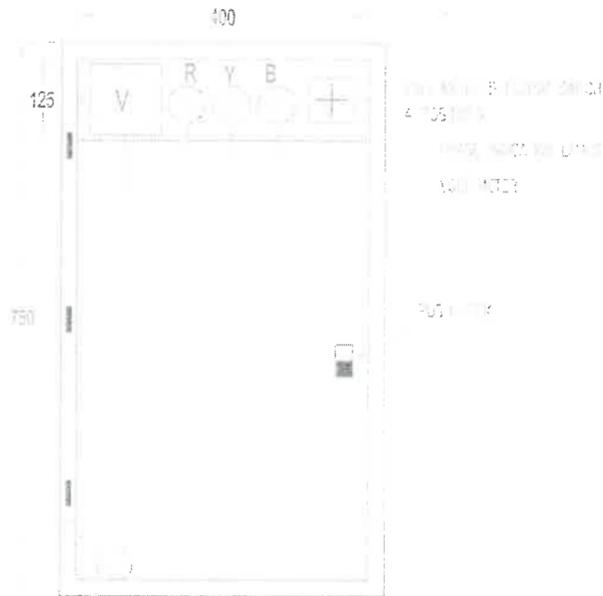


COPPER BRAID DOOR EARTHING  
**FRONT VIEW OF LIGHT CONTROL PANEL FOR EXTERNAL LIGHTS**

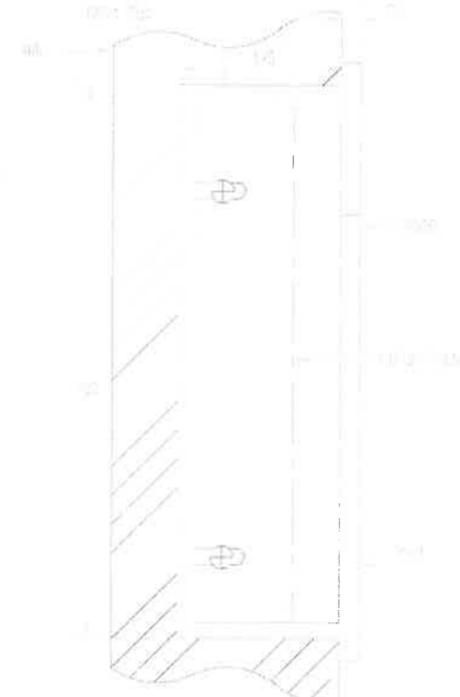


**INTERNAL ARRANGMENT OF LIGHT CONTROL PANEL FOR EXTERNAL LIGHTS**

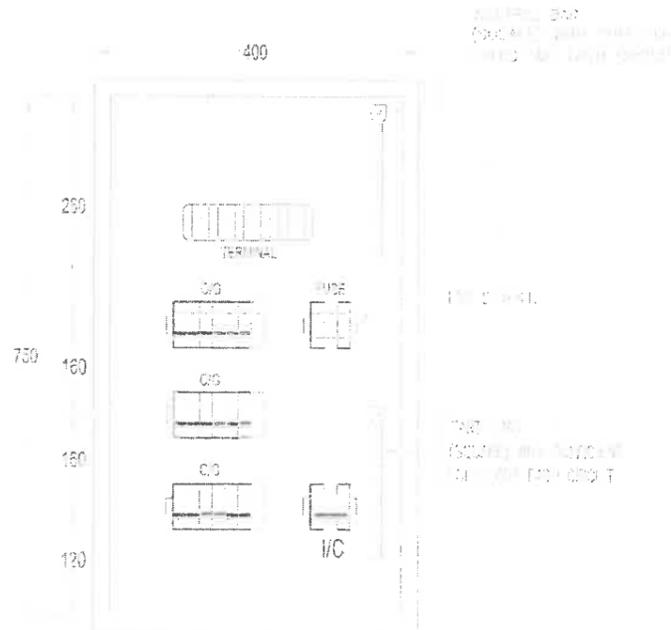
**NOTE:-**  
 DIMENSIONS SHOWN ARE INDICATIVE ONLY AND NOT NECESSARILY BE FOLLOWED. HOWEVER ACTUAL DIMENSIONS OF DB SHALL BE GIVEN BY DB MANUFACTURER/SUPPLIER



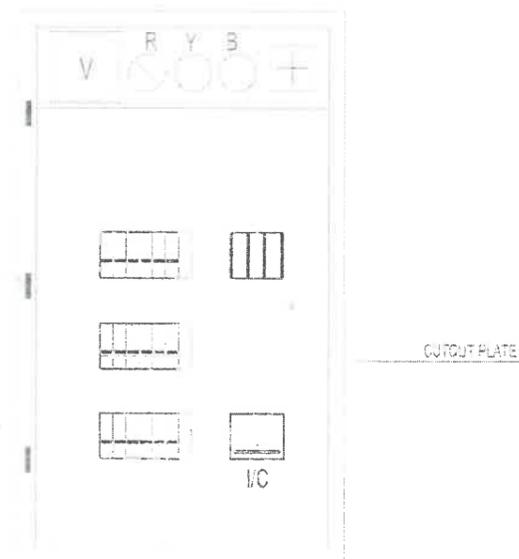
COPPER BRAID DOOR EARTHING  
**FRONT VIEW OF DISTRIBUTION BOARD**



**SECTIONAL VIEW OF DISTRIBUTION BOARD**



**FRONT VIEW INTERNAL ARRANGMENT OF DISTRIBUTION BOARD**



**FRONT VIEW OF DISTRIBUTION BOARD WITH OUTPUT PLATE**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-C/26 Center Commercial Area Townships, Lahore, Punjab, Pakistan  
 Phone: 35242311/32, 36113124  
 Fax: 35242311/32  
 Email: jers@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ ALI ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 105 - A - UPPER HALL, LAHORE  
 TEL: 35713813 - 35774883  
 35770239 - FAX: 35770238  
 EMAIL: IAA@IAAONLINE.COM

**CLIENT**  
**PAKISTAN INSTITUTE OF FASHION AND DESIGN**

**PROJECT**  
**PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.**

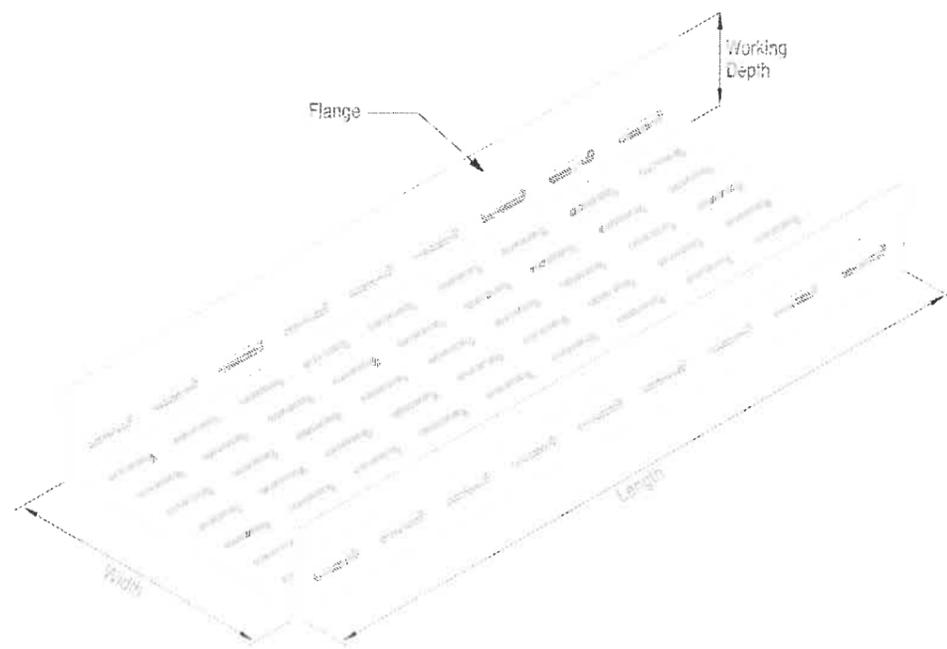
**PACKAGE**

**TITLE**  
**STANDARD DISTRIBUTION BOARD**

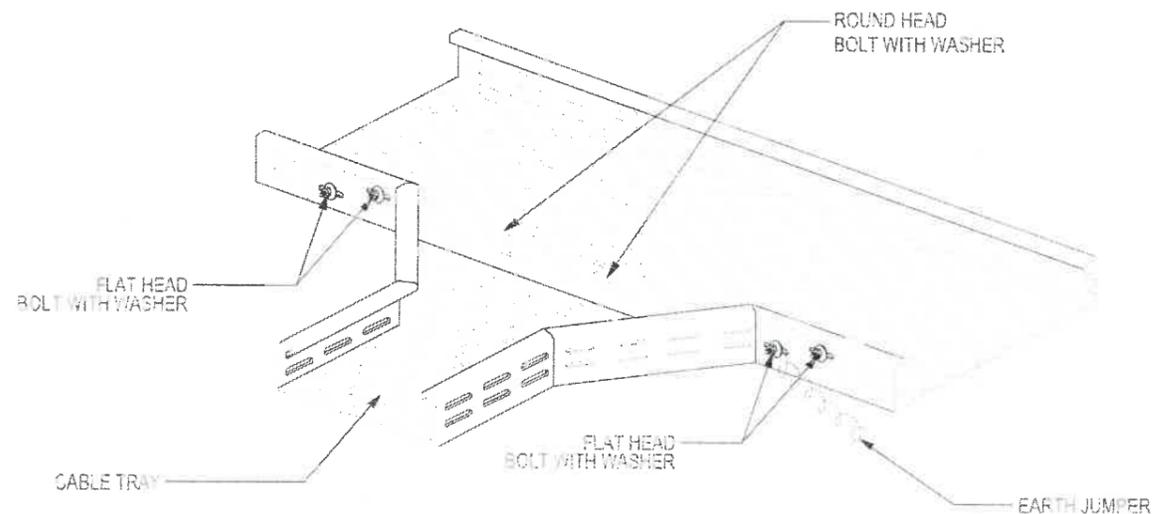
**DATE** MAY-2021  
**DRAWN BY** USMAN  
**SCALE** @AS N.T.S  
**PROJECT NO.**

**DRAWING NO.** EM-03

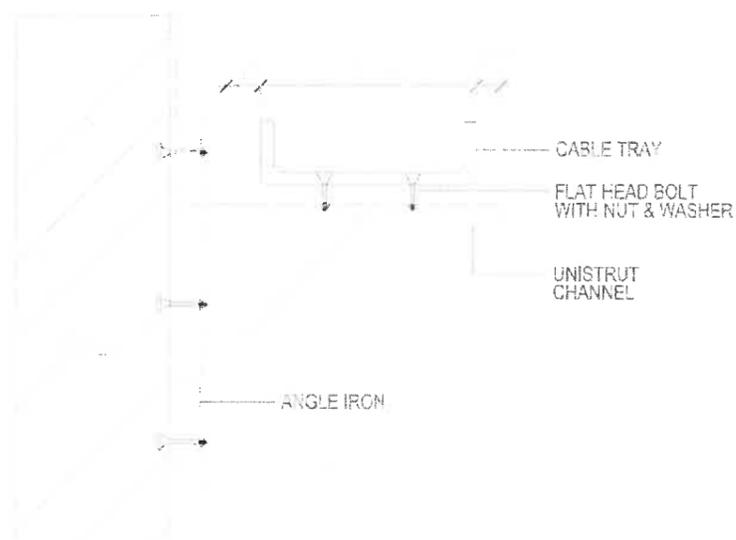
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or proceeding with any changes. The original should be retained immediately in any discrepancy.



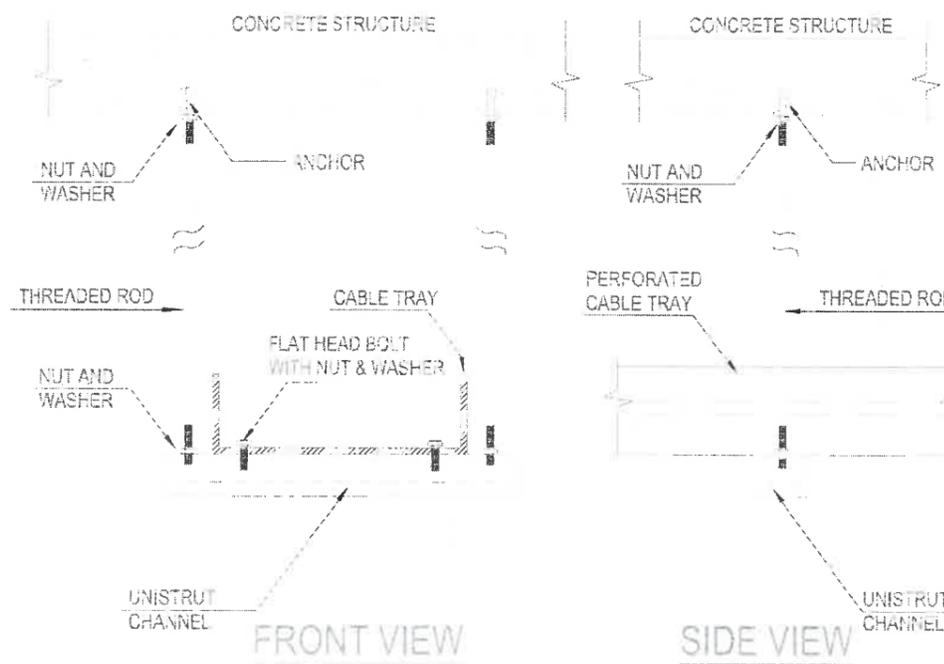
PERFORATED CABLE TRAY



PERFORATED CABLE TRAY BRANCH



DETAIL OF CABLE TRAY  
FIXING WITH WALL



CABLE TRAY SUSPENDED  
FROM CONCRETE STRUCTURE

MEP CONSULTANTS:

**JERS CONSULTANCY (PVT) LTD**  
24-City Center Commercial Area Townships, Lahore, Punjab, Pakistan  
Tel: +92-42-3511123 3511124  
Fax: +92-42-3511122  
Email: info@jers.com.pk  
Website: www.jers.com.pk

**IAA - INTIAZ ALL ASSOCIATES**  
(PVT) LTD

ARCHITECTS - ENGINEERS - PLANNERS  
227-A, UPPER HALL, LAHORE  
TEL: 35713819 - 35774828  
SERVICES: VIAL OFFSHORE  
EMAIL: HALL@IAAARCHITECT.COM

CLIENT

PAKISTAN INSTITUTE OF  
FASHION AND DESIGN

PROJECT

PROPOSED DESIGN FOR  
FEMALE HOSTEL, PIFD  
AT JOHAR TOWN, LAHORE.

PACKAGE

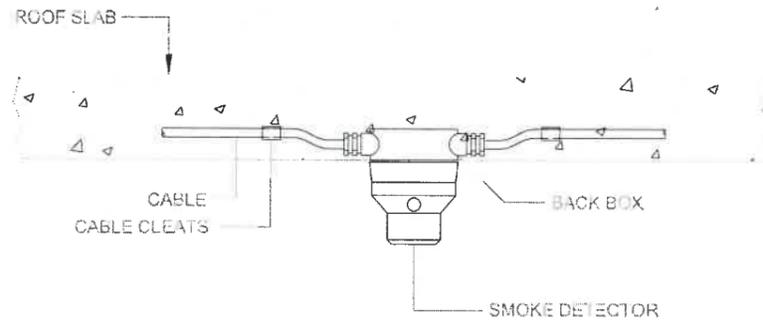
TITLE

STANDARD CABLE TRAY FIXING  
DETAIL

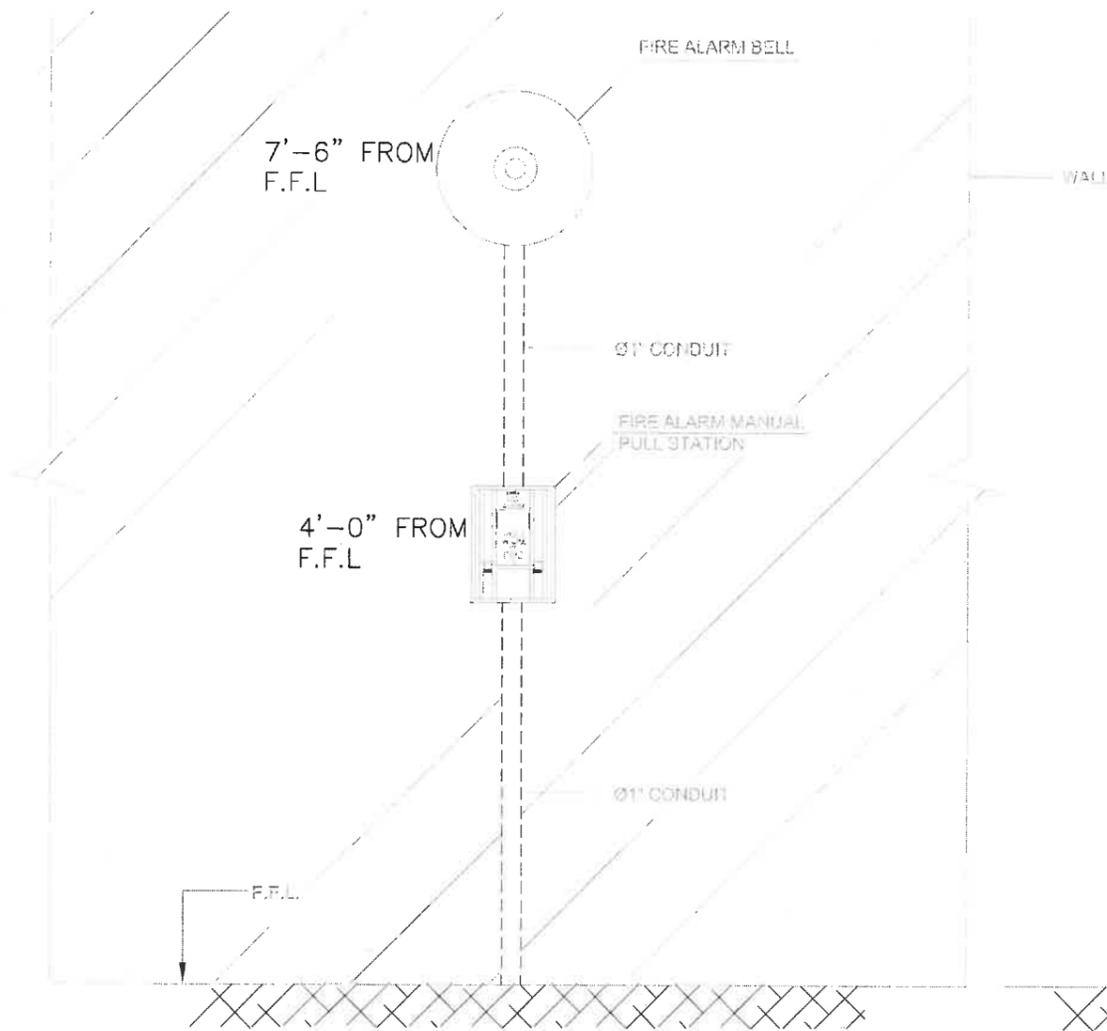
DATE	MAY-2021
DRAWN BY	USMAN
SCALE	60/25 N.T.S
PROJECT NO.	

DRAWING NO. **EM-04**

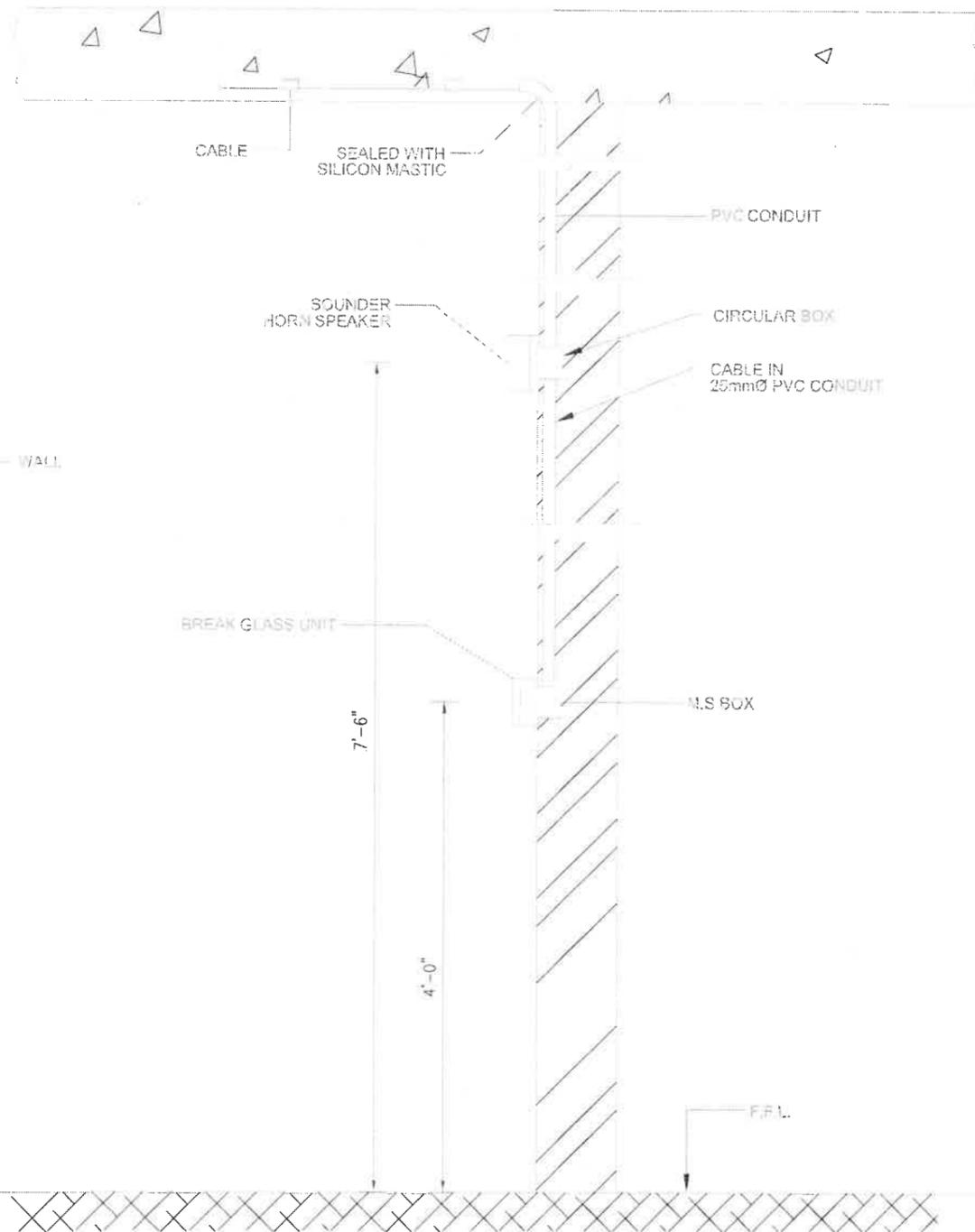
This drawing is to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The engineer should be notified immediately of any discrepancy.



**INSTALLATION DETAIL FOR SMOKE/HEAT DETECTOR**



**ELEVATION**



**TYPICAL DETAIL OF SOUNDER AND BREAK GLASS UNITS**

**MEP CONSULTANTS:**

**JERS CONSULTANCY (PVT) LTD**  
 24-Chis Comers Commercial Area Town 16, Lahore, Punjab, Pakistan  
 Phone: +92-42-35117123, 35117124  
 Fax: +92-42-35117125  
 Email: info@jers.com.pk  
 Web: www.jers.com.pk

**IAA - IMTIAZ A.I. ASSOCIATES (PVT. LTD)**  
 ARCHITECTS - ENGINEERS - PLANNERS  
 55B - 6 - UPPER MALL, LAHORE.  
 TEL: 35712813 - 35574825 - 35702556 - FAX: 35753433  
 EMAIL: info@iaaconsultancy.com

**CLIENT**  
 PAKISTAN INSTITUTE OF FASHION AND DESIGN

**PROJECT**  
 PROPOSED DESIGN FOR FEMALE HOSTEL, PIFD AT JOHAR TOWN, LAHORE.

**PACKAGE**  
 TITLE  
 FIRE ALARM FIXING DETAIL

DATE	MAY-2021
DRAWN BY	USMAN
SCALE	N.T.S
PROJECT NO.	-

DRAWING NO. **EM-05**

This drawing to be read in conjunction with all related drawings. Do not scale from this drawing. All dimensions must be checked and verified on site before covering up any work or making any drawings. The signator should be notified immediately of any discrepancy.