

TENDER ISSUED TO: M/S _____
DATE: _____

CADET COLLEGE SANGHAR
AT JAM NAWAZ ALI, VIA TANDO ADAM, SINDH

CONSTRUCTION OF LAL SHAHBAZ
QALANDAR BOYS HOSTEL

(CIVIL, PLUMBING & ELECTRICAL WORKS)

TENDER DOCUMENTS

1. NOTICE INVITING TENDER
2. SCOPE OF WORK
3. INSTRUCTION TO TENDERERS
4. SPECIAL CONDITIONS OF CONTRACT
5. SPECIAL STIPULATIONS
6. FORMS OF AGREEMENT / PERFORMANCE BOND / MOBILIZATION ADVANCE
7. TECHNICAL SPECIFICATION
8. LIST OF SPECIFIED MATERIAL
9. BILL OF QUANTITIES
10. FORM OF TENDER
11. TENDER DRAWINGS



YOUNG ASSOCIATES

CONSULTING ENGINEERS, ARCHITECTS & PLANNERS

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DEFENCE HOUSING AUTHORITY, KARACHI

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SECTION – 1

NOTICE INVITING TENDER



CADET COLLEGE SANGHAR

At Jam Nawaz Ali, Via Tando Adam, District Sanghar

NOTICE INVITING TENDER

(Single Stage-Two Envelope Procedure)



NO.CCS/Adv./ 2026

Jan 2026

Cadet College Sanghar invites sealed Bids/ Tenders from interested Contractors of Good repute enlisted in category C-4 or above for construction of following works:

S. No	Name of Project	No./ Units	Total Area (SFT)	PC1 Cost (Million)	Completion Period
1	CADET COLLEGE SANGHAR Construction Of Lal Shahbaz Qalandar Boys Hostel	1	23420	188.777	18 Months
2	a. Construction of Staff Family Quarters/ Flats category IV (Officers Colony)	8	8000	144.412	12 Months
	b. Construction of Lower Staff Family Quarters/ Flats category V	8	6800		12 Months
	c. Construction of Lower Staff Family quarters/ flats category VI	8	6000		12 Months
3	Construction of Military Training Staff Barrack & Classes	1	10600		12 Months

Scope of work details are mentioned in Bidding Documents.

Bidding/ Tender Documents: Complete set of Bidding Documents can be obtained from **6 till 20 January 2026** upon submission of a written application on official letter head and payment of a Non-refundable fee of Rs.10000 in the shape of Pay order in favor of Principal Cadet College Sanghar. The Bidding Documents will also be available on EPADs SPPRA's website and Cadet College Sanghar website (www.ccsanghar.edu.pk).

Submission: Technical and Financial bids completed in all respects in sealed envelopes separately mentioning name of work and marked as "Technical" and "Financial" Proposals must be submitted in one envelope on or before **21 January 2026 at 12:00 PM** and must be accompanied by a Bid Security of 2% of the Bid price in the shape of Pay Order/ Demand draft in favor of Principal & Project Director, Cadet College Sanghar.

Tender Opening: Initially the **Technical Proposal** will be opened on **21 January 2026 at 02:00 PM**, whereas the **Financial Proposal** will be retained with the Tender opening Committee. The technical proposal will be evaluated by Tender opening committee. Thereafter, financial proposal of technically qualified firms will be opened by the same committee on the date and time to be communicated to the bidders. The financial proposal of the bids found technically disqualified shall be returned unopened to the respective bidders. In case of unusual circumstance, Tenders will be opened on next working day at the same time.

Place of Issuance, Submission, Inquiries & Opening: Office of the Principal & Projector Director, Cadet College Sanghar at Jam Nawaz Ali via Tando Adam, District Sanghar.

Telephone Numbers: 0235-548008, 0235-548077, 0344-3611347.

Eligibility: Valid registration with Tax Authorities (FBR & SRB) & Pakistan Engineering Council in category C-4 and discipline as mentioned in Bidding Documents.

Bidding Procedure: Single Stage two Envelope

Terms & Conditions: under the following conditions, Bids will be rejected:

- I. Conditional and Telegraphic Bids/ Tenders
- II. Bids not accompanied by Bid security of required amount and form
- III. Bids received after specified date and time
- IV. Bids submitted by black listed firms
- V. Incomplete bids as per instructions given in bidding documents.

Bids Validity Period: Ninety (90) days.

The Principal & Project Director, Cadet College Sanghar reserves the right to reject any or all bids subject to the relevant provisions of Sindh public procurement rules 2010 (amended time to time).

**Principal/ Project Director
Cadet College Sanghar**

CRITERIA OF QUANTIFICATION/QUALIFICATION

Company Profile of the Firms must Fulfill the following Criteria for Qualification

(a). The following documents should be attached with the Technical Proposal.

- i) Name of Firm, Postal Address, Telephone, Fax Number, E-mail Address and Organization Chart.
- ii) Legal Status of Firm.
- iii) Copy of valid PEC Contractor's License in category C-4 and discipline CE-09, CE-10, EE-04, EE-06, Electrical Inspectors License valid in Sindh (Mandatory).
- iv) Copy of NTN Certificate (Mandatory).
- v) Copy of Prequalification letters issued by other Govt. /Semi Govt. autonomous bodies and Organizations. (Building Works only)
- vi) Certificate of satisfactory completion of works by the clients. (Building Works only upto 100 Million)
- vii) List of Key Permanent Technical Staff Members along with their latest affidavit on judicial stamp paper of Rs.100/- that they are working with the applicant.
- viii) List of works completed in last five years with name and telephone No. of the clients and value of project (Mandatory). (Building Works only upto 100 Million)
- ix) List of work in hand including all details required in (viii) above. (building Works only)
- x) Affidavit on Rs.100/- Non Judicial Stamp Paper declaring that the firm has never been Blacklisted by any Govt./Semi Govt. Autonomous body or organization. (Mandatory).
- xi) List of Equipment/Plants available with the firms which can be verified.
- xii) Audit financial statement last 05 years.
- xiii) Bank Statement of last 05 years.
- xiv) Income Tax Return for last 05 years.

(b). Scope of Contract.

The Scope of Contract includes but not limited to the following:

- a. Construction of RCC structure
- b. finishing works
- c. Civil, Electrical, Firefighting & Plumbing works

Note:

- 1). Verification of the information provided by the applicants in the submissions for short listing may be made. In case the information is found to be wrong or incorrect in any material way or the applicant is found to be lacking in the capability or resources to successfully perform the contract, the application shall not be entertained.
- 2). The document not containing Mandatories will not be entertained.

(c). Technical Evaluation Criteria.

(a).	Legal Status of Firm	(Maximum 3 Points)
(i)	Limited Co.	3 Points
(ii)	Partnership	2 Points
(iii)	Individual	1 Point
(b).	PEC Registration C-4 (CE-09, CE-10)(EE-04,EE-06)	Mandatory
(c).	NTN Registration, SRB Registration	Mandatory
(d).	Certificate of completion of works (civil, plumbing & electrical works) with cost undertaken. (attached certificates) (Only Building Works more than 100 Million will be considered)	3 Point per Certificate (Max 15) Points.
(e).	List of works (civil plumbing & electrical works) in hand. Provide Documentary Evidence (work orders with cost) (Only Building Works more than 100 Million will be considered)	5 Point for each work order (Max 15 Points).
(f).	List of permanent technical Staff (a). Masters 3 Marks for each Engineer holding Masters Degree (b). Graduate 2 Marks for each Engineer holding Graduation Degree (c). Diploma Holder 1 Marks for each person having relevant certificate	Max 15 Points
(g).	Affidavit on Rs. 100/- stamp paper declaring that the firm has never been black listed.	Mandatory
(h).	List of equipment & plant (ownership document evidence is mandatory)	(Max 17 Points)
(i).	Concrete Mixers	2 Points
(ii).	Concrete Hoist	2 Points
(iii).	Vibrators	1 Point
(iv).	Tractor with Trolley	1 Point
(v).	Leveling instrument / Theodolite	1 Point
(vi)	Steel welding plant	1 Point
(vii)	Batching Plant	5 Point
(viii)	Shuttering (min. shuttering owned by contractor must be 100,000 sft including its vertical props)	4 Points
(i).	Average Annual Turnover of last 05 years from Audit Reports. (i). Above Rs. 100 million (ii). From Rs. 90 to Rs. 100 million (iii). From Rs. 70 to Rs. 90 million (iv). From Rs. 50 to Rs. 70 million (v). upto Rs. 50 million	(Max 25 Points) Full Points 25 Points 20 Points 15 Points 12 Points 10 Points
(j).	Bank Statements of last 05 years.	1 Points for each year (Max 5 Points)
(k).	Income Tax Returns (Last 05 Years).	1 Points for each year (Max 5 Points)
		100 Points

Qualifying Score: 60 Points

For Category C-4 (CE-09, CE-10) (EE-04, EE-06) and above

Signature with Official Seal

SECTION – 2

SCOPE OF WORK

SCOPE OF WORK

Cadet College Sanghar at Jam Nawaz Ali, Via Tando Adam, District, Sanghar intends to Construct **“CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL”** in accordance with the drawings and specifications appended hereto.

The scope of contract for this bid shall be limited to Civil, Plumbing and Electrical works. The Owner may increase or decrease the quantum of Work given in BOQ at his sole discretion at the rates quoted here in and no such increase or decrease shall give rise to any claim or compensation in this account.

The scope of work given in Contract Document includes items based on unit rates as indicated in schedule of rates, Govt. of Sindh (2024) for which Specifications of standing rates committee Govt. of Sindh be followed. (If Specification of any item is not indicated in Technical Specification of Tender Document) and / or items based on market rates for which Technical Specifications are given in the nomenclature and in section “Technical Specification”

The Contractor will be responsible for properly placing the location of the building as per Contour Plan and fix the plinth level in conjunction with the Bench Mark available at site as per the drawings provided by the Consultants and get it verified from them before taking up the works.

PROCEDURE TO BID:

1. Documents to be downloaded from **EPADs** or hard copy may be purchased from the Client.
2. Instructions to be followed given in the document.
3. Bids to be submitted both in Soft & Hard format.
4. Technical & Financial bids in hard format be sealed in separate envelopes with clear marking as “Technical Proposal” & “Financial Proposal” and both envelopes be placed in a single envelope with clearly mentioning the details of the tender.
5. Bid Security of the amount mentioned in the Tender Document in form of Pay Order be placed in “Financial Proposal”.
6. A copy of Bid Security Pay Order **with the amount crossed** be placed along Technical Proposal.
7. It must be ensured that in no case the amount of Bid Security is disclosed before opening of Financial Proposal.
8. The document will also be submitted on **EPAD's** in PDF format with Technical & Financial Proposals uploaded in their relevant slots.
9. Copy of Bid Security Pay Order **with the amount crossed** must be uploaded along the **Technical Proposal** and **without the amount crossed** be uploaded along the **Financial Proposal**.
10. Original Pay Order may be submitted along the Financial Proposal in sealed envelope.
11. Tenders will be opened as per the SPPRA Prescribed Rules set for single stage two envelope procedure.

SECTION – 3

INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS

1. GENERAL

- 1.1 The Principal / Project Director, *Cadet College Sanghar* (hereinafter referred to as the "OWNER") through their Consultants viz YOUNG ASSOCIATES hereinafter referred to as "CONSULTANTS" invites from Contractors to submit tender for **CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL** as described in the scope of work in accordance with specifications and drawing requirements.
- 1.2 Tenders shall be prepared and submitted to the OWNER strictly in accordance with the instructions set forth herein.
- 1.3 All entries in the tender are to be in ENGLISH LANGUAGE, Corrections, overwriting etc, shall be signed by the authorized persons.

2. TENDER DOCUMENTS

The list of document indicated in the Form of Agreement shall form integral part of the agreement subsequently.

3. INSPECTION OF SITE AND LOCATIONS

- 3.1. The Tenderer shall inspect the site of work and surroundings and shall satisfy themselves before submitting their Tenders as to the qualities and nature of the work, the requirements and availability of manpower, labour, materials, water, electricity and roads, the means and access to the site. The tendered rates shall be considered to include all these factors as well as any, or all other factors which may influence the cost of construction.
- 3.2. The rates shall include the cost of all material, but in case, owner agrees to supply any or all the building materials to the Contractor, the deduction for the cost of these materials shall be made from the bills (Interim or final as the case may be) of the Contractor.

4. SUFFICIENCY OF TENDER

- 4.1. Each tenderer shall be deemed to have fully satisfied himself before submitting the Tender as to the Correctness and sufficiency of his Tender and of the rates and prices stated in the Bill of Quantities which rates and prices shall, except in so far as it is otherwise expressly provided in the Conditions of contract, must cover all his obligations under the Contract and all matters and things necessary for the proper completion of Project.
- 4.2. No tenderer shall have any right to make any objection, excuse or claim about correctness and sufficiency of this Tender after acceptance of his Tender by the OWNER.

5. VERBAL INSTRUCTIONS BE IGNORED

The Owner shall not assume any responsibility for information, interpretation and deductions the Tenderers may make from the data furnished by the Owner or the Consultants. No verbal understanding, agreement or conversation with any officer, employee or agent of the Owner or the Consultants, either before, during or after the execution of the Contract, shall affect or modify any of the terms or obligations contained in the Tender Documents.

6. EXPLANATION OF DOCUMENTS

Any tenderer who may have any doubt or question as to the true meaning of any part of the Tender Documents should deliver to the OWNER or the CONSULTANTS a written request for a clarification or answer thereof, prior to two days of the date set for opening of the Tender. Any explanations, revisions, additions or deletions to the tender documents will be made only by formal addendum, duly signed and issued with prior approval of OWNER and mailed or delivered to each tenderer who has received a set of Tender Documents. Such addendum will become an integral part of the Tender Documents and receipt thereof must be acknowledged by return of on the form issued with the addendum. Each addendum shall be signed by the Tenderers. The OWNER shall neither be responsible nor bound by any explanations, revisions, additions or deletions to the Tender Documents except those contained in the formal Addendum signed and issued by the OWNER or the CONSULTANTS.

7. DRAWINGS

The drawings showing the proposed work are also being issued with the Tender. The OWNER / CONSULTANT, however, reserves the right to make any addition, alteration or modification and / or deletion in these drawings, specifications and / or BOQ (Scope of work) at any time in the best interest of the work.

8. COST OF TENDERING

Tenderers shall have no claim for reimbursement of any expenses of any kind whatsoever incurred in connection with preparation and submission of their tenders.

9. INCOMPLETE TENDERS

Incomplete Tenders shall be liable for rejection by the Owner.

10. SUPPLY OF MATERIALS, WATER AND ELECTRICITY

- a). No materials of any kind what so ever required for execution of the work shall be supplied or arranged by the OWNER. It shall be the responsibility of the Tenderer to procure all materials required for timely completion of the work.
- b). The Contractor should make his own arrangements for water and electricity.
- c). If available electric supply and water may be supplied by the Owners the some may be shared with the contractor @0.25% for electric supply of the contract amount and 2 % for water supply service of the contract amount .

11. EARNEST MONEY

- 11.1. The original Tender shall be accompanied by Earnest Money 2% as specified in NIT in the form of Pay Order / Demand Draft issued by a Schedule Bank of Pakistan in favor of The Principal / Project Director, *Cadet College Sanghar*. The money will be adjusted in Performance Guarantee of the successful bidders.
- 11.2. The Earnest Money will be refunded to unsuccessful bidders within 28 days from the date of opening of tenders.

12. SUBMISSION OF TENDER

The Tender Document duly signed on each page, corrections and overwriting alongwith the Earnest Money for the tender shall be properly signed and sealed and clearly marked as Technical & Financial Proposal and delivered in person or by registered mail or through Courier Service to the following address.

TO
THE PRINCIPAL / PROJECT DIRECTOR
CADET COLLEGE SANGHAR
AT JAM NAWAZ ALI, VIA TANDO ADAM,
PH: 235-548001-4

so as to reach on or before the time and date given in the Notice of Tender at which time and place, they will be opened in the presence of such of the representatives of the Tenderers who may wish to be present. Only the name of the Tenderers and the Total quoted rates shall be announced by the OWNER at the time of opening of the Tender.

In case of any calculation errors detected during scrutiny of the Tenders, the unit RATE quoted by the Tender shall be taken as final and the tender value corrected accordingly.

13. AWARD OF CONTRACT

The OWNER does not bind himself to award the Contract to the lowest or to any other Tenderer but will take into consideration all aspects as are deemed relevant and applicable. Once the OWNER has arrived at the decision, he will issue a written letter of Award to the successful tenderer. Thereafter, the successful tenderer will be required to execute a formal agreement. Failure of the successful tenderer to sign the agreement within the prescribed time-schedule shall be a just cause for the annulment of the award of the contract and in the event of such annulment, the Earnest Money of the successful tenderer will be forfeited by and to the OWNER.

14. MOBILIZATION

If the tenderer to whom the Letter of Award is issued by the OWNER does not mobilize at the site of work within the stipulated time and take all appropriate steps to commence the work, the Earnest Money deposited by him along with his tender shall stand forfeited in favor of the OWNER as liquidated damages.

15. COMPLETION TIME AND COMPLETION CERTIFICATE.

- a). The work is to be substantially completed in all respects, in accordance with drawings and specifications, to the entire satisfaction of Engineer Incharge within the period set forth in the Tender. Failure of the Tenderer to complete the whole of the work within the specified time, will result in imposition and recovery of liquidated damages under the conditions of contract.
- b). When the work is completed in all respects and handed over to the OWNERS the Consultant will issue the certificate that the works are substantially completed and Defect Liability Period will commence with effect from the date of issue of such certificate and will indicate the terminal date of such period.

16. MAINTENANCE PERIOD

The maintenance period of the work shall be 365 days effective from the date of issue of completion certificate by the Consultants.

17. SPECIAL STIPULATIONS

In case of doubt Special Stipulations will take precedence over all other conditions in Tender Documents.

SECTION – 4

SPECIAL CONDITIONS OF CONTRACT

SPECIAL CONDITIONS OF CONTRACT

1. DEFINITIONS AND INTERPRETATIONS

1.1. Definitions

In the Contract (as hereinafter defined), the following words and expressions shall all have the meanings herein assigned to them unless the context otherwise requires:

- a) "OWNER" means the M/s Cadet College Sanghar, Sindh legal successors and assignees.
- b) "CONSULTANTS" means M/S YOUNG ASSOCIATES, 9-C, 24th Commercial Street, Phase-II (Ext), DHA, Karachi, appointed by the OWNER as CONSULTANTS for the purpose of Technical assistance for supervision and management of the "WORKS" hereinafter defined.
- c) "ENGINEER" means the person or agency for the time being or from time to time designated or appointed in writing by the Consultant to represent them and to perform the duties set-forth in Article-4 hereof.
- d) "ASSOCIATE" means a firm / company hired to work in the trades of Electrical Installations / Air-Conditioning Installations or any other special trade having valid P.E.C. License in relevant category and also valid license issued by Electrical Inspector or by any other license granting Agency for the respective trades.
- e) "WORKS" means Construction of "**CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL**" LUMHS, Jamshoro, Sindh by virtue of the contract to be executed, whether temporary or permanent and whether original, altered, substituted or additional in accordance with the contract.
- f) "CONTRACTOR" means the person, firm or company whose Tender has been accepted by the OWNER and includes the contractor's representatives, successors and permitted assignees.
- g) "DRAWINGS" means the drawings showing the related details of architectural, structural, plumbing, electrical and mechanical services and other such works including the layout plans, elevations, sections, details, perspectives, sketches and other details and also the drawings referred to in the specifications and any modifications of such drawings approved in writing by OWNER / CONSULTANTS and such other drawings as may from time to time be furnished for approval in writing by the OWNER in Consultations with the CONSULTANTS.
- h) "SITE" means the land and other places on, under over, in or through the work s are to be executed or carried out and any other lands or places provided by the owner for the purpose of the Contract together with such other places as may be specified in or pursuant to the contract as forming part of the site.

- i) "TENDER" means the offer tendered by the Contractor for the Works governed by the Contract.
- j) "SPECIFICATIONS" means directions, provisions and requirements contained in the drawings or in the nomenclature or descriptions given in the contract documents and / or the verbal instructions of the Consultants.
- k) "CONTRACT DOCUMENT" means and includes the Letter of Work Award, agreement, conditions of contracts, specifications, schedule of quantities, Tender Drawings, details, sketches Performance / Bank Guarantee, Insurance Policies and all other papers pertaining to the construction work of this project. It shall also include any and all supplementary documents which may be necessitated to complete the work as required by the Owner through Consultant.
- l) "APPROVED" means approved in writing by Owner through Consultants.

2. SINGULAR & PLURAL

Words purporting the singular include the plural and vice-versa.

3. EXECUTION OF WORK

All works to be executed under the Contract shall be executed under the overall direction and subject to the approval in all respect of the OWNER.

4. ENGINEER

4.1. Duties and Power of the Engineer

The duties and power of the Engineer are to watch and supervise the Works and to test and examine any materials to be used or workmanship employed in connection with the works. He shall have no authority to relieve the contractor of any of his duties or obligations under the contract nor to make any variation of or in the works nor except as expressly provided hereunder order any works involving delay or any extra payment by the OWNER. The OWNER may from time to time in writing delegate to the Engineer through Consultant any of the powers and authorities and shall furnish to the contractor a copy of all such written delegations of powers and authorities and also of any revocation thereof.

Any written instructions or written approval given by the Engineer to the contractor within the terms of such delegations (but not otherwise) shall bind the contractor and the OWNER provided always as follows:

- i. Failure of the Engineer to disapprove any work or material shall not prejudice the power of the CONSULTANTS and the OWNER thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.

- ii. If the Contractor shall be dis-satisfied by reason of any decision of the Engineer, he shall be entitled to refer the matter to the CONSULTANTS who shall thereon confirm, reverse or vary such decision. The CONSULTANTS's decision in such a case shall be final and binding upon the Contractor.
- iii. The fact that the CONSULTANTS or Engineer for whatever reasons, fail to detect defects in the layout or in the quality of the works executed shall not relieve the Contractor of his liability for rectifying the said defects in the layout or in the quality of the works at his own cost.

4.2. Emergency Powers of the Engineer.

Notwithstanding the provisions of Sections 4.1 hereof, if in the opinion of the Engineer an emergency occurs affecting the safety of lift or of the works or adjoining property he may direct the Contractor in writing to carry out all such work or to do all such things as may be necessary in his opinion to abate or reduce the risk. The contractor shall forthwith comply without appeal with any such direction of the Engineer.

5. CONTRACT DOCUMENTS

5.1. Language

The language according to which the Contract is to be construed and interpreted shall be English.

5.2. Documents Mutually Explanatory

The several documents forming Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Consultant, who shall thereupon issue to the Contractor instructions directing in what manner the work is to be carried out. The provisions of special conditions of Contract shall prevail over the General Conditions of Contract and General Conditions over those of any other documents forming part of the Contract.

6. PERFORMANCE BOND

- a). The Contractor shall, within fourteen days after written Letter of Award has been issued by the Owner, provide a performance guarantee from a Scheduled Bank of Pakistan to be jointly and severally bound with the Contractor to the Owner for the due performance guarantee in the form appended to tender an amount equal to 5% (five percent) of the Contract Price.
- b). The Performance Bond shall be valid till the completion and end of the period of Maintenance. The cost of the Bond so entered into shall be at the sole expense, of the Contractor.
- c). No RA Bill will be processed unless the Performance guarantee is submitted.

6.1. INSURANCE OF WORKS ETC.

The Contractor shall, insure in the joint names of the Owner and the Contractor, against all loss or damage from whatever cause arising for which he is responsible under the terms of the contract and in such manner that the Owner and Contractor are covered during the period of the commencement to the completion of the works and are also covered during the period of Maintenance for loss or damage arising from a cause occurring prior to the commencement of the period of maintenance and for any loss or damage occasioned by the Contractor in the course of any operations carried out by him for the purpose of complying with his obligations.

- i) The works and temporary works to the full value thereof executed from time to time.
- ii) The maintenance, constructional plant and other things brought on to the site by the Contractor for the purposes of the contract to the full value of such materials, constructional plant and other things.
- a) Provided always that without limiting his obligations and responsibilities as aforesaid nothing in this clause contained shall render the Contractor liable to insure against the necessity for the repair or reconstruction of any work constructed with materials or workmanship not in accordance with the requirements of the Contract.
- b) Such insurance shall be affected with an insurer and in terms approved by the Owner and the Contractor shall whenever required produce to the Owner the original policy or policies of insurance and the receipt for payment of the correct premiums. The contract price shall be deemed to include in the Contractor's cost for the provision of such insurance.
- c) All money received under any insurance mentioned in the Section shall be applied in or towards the cost of making good the loss or damage which has occurred but this provision shall not affect the contractor's liabilities under the contract.

6.2. DAMAGE TO PERSONS AND PROPERTY

The Contractor shall (except if and so far as the contract otherwise provides) indemnify and keep indemnified the Owner against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out, or in consequence, of the performance of the Contract and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Provided always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify the Owner against any compensation or damages for or with respect to:

- i) The permanent use or occupation of land by the work for any part thereof.
- ii) Surface or other damage (caused by tenants or occupiers) to land or plants within the site which land or plants will be disturbed or damaged as an unavoidable result of the execution of the works.

- iii) The right of the Owner to construct the work for any part thereof on, cover, under, in or through any land.
- iv) Interference, whether temporary or permanent with any right of light, air, way, water or support or other easement or quasi easement which is the unavoidable result of the performance of the contract.

6.3. a) THIRD PARTY INSURANCE

Before commencing the execution of the works, the contractor shall, without limiting his obligations and responsibilities insure and, of the duration of the performance of the Contract, keep insured, in the joint names of the Owner and the Contractor against any damage, loss or injury which may occur to any property or to any person (including any employee of the Owner or Engineer or Consultants) by or arising out of the execution of the works or temporary works.

b) MINIMUM AMOUNT OF THIRD PARTY INSURANCE.

Such insurance shall be effected with an insurance company of AA rating and in terms approved by the Owner and for at least the amount stated in the Tender and the Contractor shall whenever required produce the original policies of insurance and the original receipts for payment of the current premiums. The Contract prices shall be deemed to include the contractor's costs of premium and incidental to the provision of such insurance.

6.4. a) ACCIDENT OR INURY TO WORKMEN

The Owner shall not be liable for or in respect of any damage or compensation payable in law in respect or in consequence of any accident of injury to any workman or other person in the employment of the Contractor or any of his sub-contractors and the Contractor shall indemnify and keep indemnified the Owner against all claims, demands, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

b) INSURANCE AGAINST INJURY TO WORKMEN

The Contractor shall insure against any such liability with an insurer approved by the Owner and shall continue such insurance during the whole of the time that any persons that are employed by him on the works and shall when required produce to the Owner, in original, such policy of insurance and the receipt for payment of the current premium. Provided always that in respect of any persons employed by any of his sub-contractors, the Contractor's obligation to insure as aforesaid under this clause shall be satisfied if the sub-contractor shall have insured against the liability in respect of such persons in such manner that the Owner is indemnified under the policy but the Contractor shall require such sub-contractor to produce in the original to the Owner when required such policy of insurance and the receipt for payment of the correct premium. The contract price shall be deemed to include the costs of such insurance by the Contractor and his sub-contractors.

6.5. a) REMEDY ON CONTRACTOR'S FAILURE TO INSURE

If the Contractor fails to effect and keep in force the insurances or any other insurance which he may be required to effect under the terms of the contract or any applicable Laws / Bye-Laws, then in any case the Owner may (without prejudice to any other right or remedies) effect and keep in force such insurance and pay such premium or premiums as may be necessary for that purpose and from time to deduct the amount so paid by the Owner as aforesaid from any moneys due or which may become due to the Contractor or recover the same as a debt due from the Contractor.

b) CONTRACTOR TO NOTIFY INSURERS

The Contractor shall notify the insurers of any of the insurance any matter or event which by the terms of such insurances are required to be so notified and the Contractor shall indemnify and keep indemnified the Owner against all losses, claims, demands, proceedings, costs, charges and expenses whatsoever arising out of or resulting from any default by the Contractor in employing with the requirements of this Section whether on account of the avoidance of any such insurance or otherwise.

7. DAMAGE TO PERSONS AND PROPERTY

The Contractor shall (except if and so far as the contract otherwise provides) indemnify and keep indemnified the Owner against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out, or in consequence, of the performance of the Contract and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Provided always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify the Owner against any compensation or damages for or with respect to:

- i) The permanent use or occupation of land by the work for any part thereof.
- ii) Surface or other damage (caused by tenants or occupiers) to land or plants within the site which land or plants will be disturbed or damaged as an unavoidable result of the execution of the works.
- iii) The right of the Owner to construct the work for any part thereof on, cover, under, in or through any land.
- iv) Interference, whether temporary or permanent with any right of light, air, way, water or support or other easement or quasi easement which is the unavoidable result of the performance of the contract.

8. GENERAL OBLIGATIONS

8.1. Agreement

The Contractor shall, within fourteen days after the written Letter of Award has been issued to him by the OWNER, enter into and execute an Agreement (to be prepared at the cost of the Contractor) in the form appended to the Tender with such modifications as may be considered necessary by the OWNER.

8.2. Site Information

The Contractor shall be deemed to be in possession of all necessary information of the site and its surrounding, to have satisfied himself as to the nature of roads and as to possible interruptions thereto and the access to and exist from the site, to have made inquiries as to the available accommodation for his staff and labour, to have made inquiries as to the sub soil water levels and the variations thereof, and drains, storms, prevailing winds, climatic conditions generally and other similar matters, to have satisfied himself as to the courses and means of obtaining adequate supplies of skilled and unskilled labour and also all materials required for the works and the transport thereof, to have considered the possibility of delays or inconvenience that may be caused to his operations by any reasons of the breakdown of communications, storms, floods, adverse weather conditions to have acquainted himself as to his liability for payment of Government taxes another charges, to have examined the contract document generally to have obtained information on all matters whatsoever that might affect the carrying out of the works. The Contractor shall not be entitled to any claim if he fails to fulfill his obligation in acquiring the information before submitting his tender.

8.3. Works to be done to the satisfaction of the OWNER

The Contractor shall execute, complete and maintain the Works in strict accordance with the Contract to the satisfaction of the OWNER and the whole of the materials, plant, labour and other things to be provided by the Contractor in pursuant to the Contract and the mode, quality, manner and speed of execution and maintenance of the Works shall be of a kind conducted in a manner to the satisfaction of the OWNER and CONSULTANTS.

8.4. Compliance with CONSULTANT'S Instructions

The Contractor shall comply and adhere strictly to the CONSULTANT's instructions and directions (subject to the limitations referred to hereof) from the Resident Engineer on behalf of the OWNER regarding any matter (whether mentioned in the Contract or not) touching or concerning the Works.

8.5. a) Contractor's Agent

The Contractor shall with the approval of the CONSULTANTS (which approval may at any time be withdrawn) employ and arrange whole-time presence of a duly authorized agent or representative at the Site. The said agent or representative shall give his whole time superintendence to the Works and shall act in harmony with the CONSULTANTS and the OWNER. The said agent or representative shall not be removed by the Contractor from the Works or the Site without consent in writing of the CONSULTANTS.

b) Agent to Receive Instructions

The Agent and representative shall receive on behalf of the Contractor the instructions of the OWNER / CONSULTANTS or (subject to the limitations of Article 3, 4, 5 hereof) the Engineer.

8.6. Contractor's Employees

The Contractor shall employ in and about the execution and maintenance of the Works and provide at the Site:

- i. Only with technical assistants, foremen and leading hands as are careful, skilled and experienced in their respective trades and are competent to give proper supervision to the work they are required to supervise, and
- ii. Such skilled, semi-skilled and unskilled labour as necessary for the proper and timely performance of the Contract.

8.7. Assignment and Sub-Letting Assignment

The Contractor shall not assign the Contract or any part thereof or any benefit or interest therein or there under without the prior written consent of the Owner.

Subletting

The contractor shall not sub-let the whole of the works, except where otherwise provided by the Contract. The Contractor shall not sub-let any part of the works without the prior consent of the Owner and such consent if given not relieve the Contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any sub-contractor, his agents, servants or workman.

8.8. Security Deposit

- a). The Security Deposit of the contractor to be retained by the Owner shall be 5% of the total cost of the work carried out by the Contractor and it shall be deducted from each of the interim bill as well as from the final bill submitted by the Contractor and shall be retained by the Owner until the expiry of Defects liability period as guarantee of the good workmanship and good material used for the construction of project.
- b). 50% Amount of Security Deposit will be released after issuance of certificate of substantial completion of works by the Consultants.
- c). 50% Amount of Security Deposit will be released after completion of Defects Liability Period and after proper handing over by the Contractor and taking over by the Owner in writing.

9. MODE OF PAYMENTS

The Contractor shall submit 3 (three) copies of the Interim Bill accompanied by three copies of the details of measurement to the Consultants after completion of about one tenth (1/10th) portion of the total work. The Consultants shall scrutinize the same and issue to the Contractor the Certificate of payment on the basis of this scrutiny without prejudice to any of the rights of the Owner.

The payment made on the basis of interim bills shall be regarded as an advance against the total cost of work till the final bill is scrutinized and the cumulative amount paid by the Owner to the Contractor shall be adjusted against the overall amount of the final bill.

10. TIME ALLOWED FOR COMPLETION

The time allowed for completion and handing over the work complete in all respects to the Owner shall be as specified and shall be deemed to be effective from the date of Letter of Award. The contractors shall commence the work within 7 (seven) days of award of work. In case the contractor fails to commence the work within the stipulated time, the contract may be awarded to any other tenderer or party which in the opinion of the Consultants serves the best interest of the Owner. Earnest Money will be forfeited in favour of the OWNERS.

11. EXTENSION IN COMPLETION TIME

The Owner on the recommendations of Consultant reserves the right to refuse / grant reasonable extension in completion time under special circumstances which the CONSULTANTS / OWNER deem to regard as beyond the control of the contractor, and the Contractor has within One month after such circumstances have arisen or as soon thereafter as is practicable, delivered to the consultants full and detailed particulars of any claim to extension of time to which he may consider himself entitled in order that such claim may be investigated at that time.

12. PENALTY

(a) Penalty to the client

The completion time stipulated is the essence of this contract and for each day for which the work remains un-commenced or unfinished after the proper dates, the Contractor shall pay to the Owner a sum of Rs.0.05% (Point Zero Five Percent) of the contract value per day till such time the Project is completed in all respects and formally be handed over to the Owner, subject to a maximum of 10 % of the cost of the total works.

(b) This shall include penalty payable to consultant as per clause 15 page 7 of Instruction to Tenderers.

13. CONSTRUCTION SCHEDULE

Within 10 (ten) days of the Award of the work, the contractor shall submit to the Consultants a detailed phasing of the Construction programme he propose to adopt for completing the project within the stipulated period.

If the Consultants are not satisfied with this programme they may ask to revise the same to their satisfaction and the Contractor shall carry out the changes accordingly and will strictly adhere to this programme throughout the progress of the construction work. The Contractor will pay Rs.500/- (Rupees Five Hundred Only) per day for the delay beyond 15 days after the date of work order / Agreed Date of Commencement.

14. RIGHT TO ACCESS

The Owner and the Consultants reserve the right to enter upon the site at all times and the contractor or his representatives shall extend them all the cooperation for inspection of the quality and the progress of the Construction works.

15. REMOVAL OF EMPLOYEES WORKMEN AND FOREMEN.

The Owner / Consultant shall have full powers at all times to object to the employment of any of the workmen, foremen or other employees on the works by the contractor and if the contractor shall receive a notice from the consultants, requiring the removal of any person or persons from the works, the contractor shall comply with the instruction forthwith. The Contractor shall not be entitled to demand the reason from the consultants for such notice.

16. SETTING OUT

The Contractor shall be fully responsible for correctly setting out the work on the site as per dimensions indicated in the drawings and if any error is found at any stage of the work, the contractor shall rectify the same at his own risk and expense accordingly.

17. DISCREPANCY IN DRAWINGS

Only the written dimensions shall be followed for all the drawings and details. However, it will be the responsibility of the Contractor to study, check and tally the drawing/details issued to him by the consultants. Before proceeding with the construction, he shall be deemed to have thoroughly satisfied himself about the accuracy of all drawing/details. If any discrepancy is detected by him, he should immediately bring it to the notice of the consultants and get the same rectified before proceeding with the work or else the responsibility for the faulty construction shall rest with the contractor.

18. REPLACEMENT OF DEFECTIVE WORK

The Contractor shall be responsible for strictly observing his obligations as regards the correct interpretation of the drawings, details, specifications, schedule of quantities or any other relevant part of the contract documents. If during the progress of the work any defect is discovered either in the use of materials or the workmanship the contractor shall at once demolish such work on receiving instructions from the Owner, Agent or their accredited representative & replace the same as directed.

19. OWNER'S RIGHT TO IMPOSE PENALTY MEASURES

The Contractor shall strictly carry out the entire work according to the tender documents. However, at any stage of the execution of the work, if it is discovered that work carried out by the Contractor as regards the materials or the workmanship, or both, is not as per the drawings, details, specifications, and the instructions of the Owners agent, the Owner reserve the right to impose the lump-sum penalty on the contractor disown / order to dismantle, or to reduce the tendered rates of the contractor to commensurate with the actual quality of the work as carried out by the Contractor.

20. GUARANTEE FOR GOOD MATERIALS AND WORKMANSHIP

The Contractor shall execute a guarantee specimen draft valid for entire liability period after completion and handing over the works to the owner as regards the use of good construction materials and workmanship for the entire work, if any defect is discovered after completion within the said period, the Contractor shall replace the defective works at his own expenses. However, in the event of the failure on the part of the Contractor to rectify and replace the defective works, the Consultants may advise the owner to rectify the same at the expenses of the Contractor and to adjust such amount from his Security Deposit. In case the cost of replacement of defective works exceeds the amount of Security Deposit lying with the owner, the extra, expenditure so incurred shall be recovered from the Contractor.

21. CLERK OF WORK

The Owner may appoint the Site Engineer or site supervisor who may henceforth be referred to as the clerk of works, under the orders of the Owner and having the powers and authority so delegated to him by the Owner. The duties of the clerk of works shall be to inspect and supervise the works according to the specifications laid down by the Consultants. He shall have no power to relieve the Contractor of any obligation under the Contract nor to make any variation order nor to order any work involving delay or extra expenditure.

22. INTIMATIONS FOR INSPECTION

The Contractor shall inform the Owner when any parts of the work is ready for checking. No earth shall be backfilled until the Owner agent has inspected the foundations and plinth work. Any part of the work which shall not be visible in the subsequent stage of its completion shall be got inspected / measured by the Consultants.

23. OBSERVANCE OF CONSULTANTS / OWNER INSTRUCTIONS

The Contractor shall abide by the instruction of the Consultants / Owner or their duly accredited engineer or representatives as regards the progress and quality of the Construction. No work shall be continued without the approval of the Consultants / Owners. No concrete shall be poured in R.C.C. structures unless the reinforcement is checked and approved by the Consultants / Site Engineer in writing (Pour Slip).

24. PROGRESS REPORT AND PHOTOGRAPHS

The Contractor shall regularly submit to the Consultants every week, the progress reports in quadruplicate so as to reach them in the first working day of every month. If the Owner find the progress slow as compared to the Construction schedule already submitted and approved he may instruct the Contractor to increase the rate of progress and warn him about the possible enforcement of penalty clause and in that case the Owner shall take the necessary measures to accelerate the work. In the event of failure by the Contractor to comply with such instruction or such warnings, the penalty clause shall be strictly imposed upon the Contractor if the contractor falls behind the stipulated completion period. The report of every fourth week shall be fully supported with photographs of post card size depicting the completed stages of the work. No R.A Bill of Contractor shall be processed unless the photograph and monthly progress report are submitted on regular basis.

25. (A) MEETINGS ON PROGRESS OF WORK

The Contractor and his Agent shall attend any or all meetings when called by the Owner to discuss progress of the work and other matters related to the works and the contract.

(B) LIQUIDATED DAMAGES FOR DELAY.

Time shall be deemed to be the essence to the contract.

- a) It is agreed that the amounts specified hereinafter are reasonable compensation to the Owner without reference to the actual loss or damage sustained and whether or not any damage has or has not been sustained.
- b) If the work remains un-commenced at the expiry of the commencement period stipulated in the Tender, the contractor shall be liable (in addition to any other penalties liable under the contract) to pay to the Owner a sum of Rs.0.05% (Point Zero Five Percent) of the contract value for each day that the work remains un-commenced provided that the maximum amount under this sub-clause (excluding penalty or penalties under other sub-clause) shall not exceed 10 % (ten percent) of the contract price of the work.
- c) The contractor shall ensure good progress during the execution of the works and shall be bound in all cases to strictly comply with the programme submitted by him and approved by the owner under this contract.

In case the execution of work falls so much in arrears, behind the programme so as to necessitate a fresh programme the approval by the Owner of the revised programme shall not be deemed to prejudice the power of the Owner to levy penalty under this sub-clause with scale prescribed in sub-clause(c) above and the contractor shall remain liable to pay, Rs.0.05% (Point Zero Five Percent) of the contract value per day for the period revised programme had not been approved.

- d) If the Contractor shall fail to complete the works within the time prescribed by section 10 hereof or extended time, then the contractor shall pay to the Owner liquidated damages for such default and not as a penalty of Rs.0.05% (Point Zero Five Percent) of the contract value for each calendar day which shall elapse between the time prescribed by section 10 hereof or extended time as the case may be and the date of completion of the works but not exceeding a maximum of ten percent (10%) of the contract price. The Owner may, without prejudice to any other method of recovery deduct the amount of such damages from any moneys in his hands due or which may become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from any other of his obligations and liabilities under the contract.
- e) If the contractor fails to complete the works in all respects or abandons in an incomplete state, or where his contract is rescinded due to breach of contract, the contractor shall be liable to pay to the Owner a sum equal to 10 % (Ten Percent) of the contract price as penalty.
- f) The Contractor shall not claim exemption from the penalties as aforesaid without obtaining a written approval of the Owner. Mere fact that the contractor has applied for such exemption would be granted. No such application for exemption shall be considered unless it is submitted within 15 days of the occurrence of the handicap resulting in the levy of penalty.
- g) The Owner may without prejudice to any other method or recovery, deduct the amount of the penalties including the amount paid to the consultant as remuneration for supervision beyond the time of completion a prescribed by the section 10 hereof or extended time as aforesaid from any moneys in their hand due or which may become due to the contractor.
- h) The contractor shall pay a penalty in terms of liquidated damages to the consultant for the supervision service rendered beyond the agreed date of completion as per clause 15 page 7 of Instruction to Tenderers.
- i) The payment or deduction of such penalties and / or liquidated damages shall not relieve the contractor from his obligation to complete the works or from any other of his obligation and liabilities under the contract.

26. VALUABLE / ANTIQUES ETC

If during the excavation on the site any valuable or antiques are found, their ownership shall rest with the owner and the Contractor shall immediately hand these over to the owner (where applicable).

27. SUB CONTRACTING

The sub-contracting of this work or part thereof shall not be allowed, however, in case the Contractors wants to sub-contract a part of the work, requiring specialized experience, he may ask for the permission of the Consultants / Owner to do so, but in no case the Contractor shall sub-contract with the work or any part thereof without the permission of the Consultants / Owner.

28. STORAGE

It shall be the responsibility of the Contractor to protect the materials stored on the site for the use at appropriate stage of work, against weathering for that he shall provide adequate storage depots on the site at his own expenses. In the event of the damage to these materials on account of negligence of the Contractor, the consultants shall order for removal of the materials from the site and replacement with fresh materials at the expense of the Contractor.

29. SAMPLES

The Contractor shall submit to Consultants for Owner's approval the samples of the material, fittings and fixtures which he may propose to use for the construction. He shall also provide the details of the origin of such samples to the consultant.

The Consultants may allow the use of these materials with the approval of Owners if he is satisfied with their quality. However, if he finds these samples not in conformity with the specification, he may reject them and ask the contractor to produce the required quality products. The contractor shall use only the materials fittings and fixtures of the approved quality.

30. USE OF SITE

The site handed over to the contractor by the owner for carrying out the tendered work shall not be used for any purpose other than the construction. Any activity other than related to the tendered work shall be considered to be illegal and tantamount to be the breach of the contract.

31. INDEMNIFICATION OF OWNER

The Contractor shall indemnify the owner in respect of all claims, damage, compensation or expenses by any workman or other persons in the employment of the contractor or not, while in vicinity or upon the said works or the site of the same and the owner shall not be responsible to defend all the suits, claims, damages etc. arising out of any activity or consequences thereof connected with the construction. Such activity shall include upon an alleged infringement of a prevented invention and or acts improperly carried out or omission to carry out a proper or delay in carrying out proper work.

32. SITE OFFICE AND STORAGE

The Contractor shall construct at his own expense the necessary site offices and toilet facilities both for his use and for the use of the owner. He shall also construct at his own expense the necessary godowns and storages and access roads if needed. He shall demolish if required by the owner all these structures and clear the site by removing debris.

33. TESTING OF MATERIALS

The contractor shall from time to time carry-out the testing of materials used for the construction as and when desired by the consultants at his own expenses, in the laboratories as approved by the consultants. In the event of the un-satisfactory test results, the consultants shall reject such materials and order demolition of the work constructed from these materials & further order the replacement of the same to meet the required specification at contractors own expense.

34. DEFECT LIABILITY

The Contractor shall be responsible for making good all the defects appearing within 365 days after the satisfactory completion of works. The security deposit of the contractor shall be retained until after the expiry of this defect liability period.

If the Contractor fails to rectify the defects which are brought to his notice by the Consultants, the owner shall get these defects rectified from the security deposit at the

risk of the Contractor. The owner may release the security deposit before the expiry of this period, in lieu of the suitable BANK Guarantee which shall be entirely to Owner's discretion.

35. FULFILLMENT OF CONTRACT

On completion of the contract work, the contractor shall intimate the owner in writing and arrange for joint inspection of the completed works by the owner & the consultants. On this inspection, the consultants shall scrutinize the completed work as regards its quality and adequacy in keeping with the contract documents.

If they find the completed works falling short of any of the specifications or other obligations under the contract, they may ask the contractor to rectify the same. If they find the works duly completed as per contract, they may issue the final certificate for payment to the contractor. However the fulfillment of contract shall not be considered until after the acceptance of the completed work.

36. FORFEITURE

If the contractor shall become insolvent to have an order admitting a petition in insolvency made against him or shall present his petition in insolvency or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry-out the contract under a committee of inspection of his creditors or (being a corporation) shall go into liquidation (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) or if the contractor shall assign the contract without the consent in writing of the owner first obtained or shall have an execution levied on his goods or if the consultant shall certify in writing to the owner that in his opinion the contractor.

- a) Has abandoned the contract, or
- b) Without reasonable excuse has failed to commence the work or has suspended the progress of work for 15 (fifteen) days after receiving from the consultant written notice to proceed, or
- c) Has failed to proceed with the works with due diligence, or
- d) Has failed to meet the desired schedule of progress of work, or
- e) Has failed to remove materials from the site or pull down and replace work for 15 (fifteen) days after receiving from the Owners through the Consultants written notice that the said material or work has been condemned and rejected by the consultants under these conditions, or
- f) Is not executing the works in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract, or
- g) Has to the detriment of good workmanship or in defiance of the Engineer's instructions to the contrary sub-let any part of the contract, and so often as any of the events aforesaid shall occur, then the owner may adopt any of the following courses as it may deem best suited to the interest of the owner (without prejudice to any rights it may have against the contractor) after giving fifteen days notice in writing to the contractor.
 - i) Terminate the contract, enter upon the site and the works and expel the contractor there-from in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of the owner.
 - ii) Enter upon the site and the works and expel the contractor there-from without thereby voiding the contract or releasing the contractor from any of his obligations or liabilities under the contract or affecting the rights and power conferred on the owner or the consultants by the contract and may itself complete the works or may engage any other contractor to complete the works at the risk and cost of the contractor.
 - iii) To complete the works or part of works by the owner at the cost of the contractor, viz to supply labour paid by the owner and to supply materials to carry out the works or any part of the works debiting the contractor with the cost (as hereinafter specified) of labour and materials and crediting with the value of the work done in all respects under same manner and at the same rates as if it had been carried out by the contractor under the terms of his Contract. For the purpose of this clause cost of labour shall be actual expenditure plus 25 % to cover overhead charges, if the materials have been supplied by the owner, the cost of material will be based on the market rate or stock issue rate whichever is greater plus 10 % overhead charges. The certificates of the authorized representative of the owner as to the value of the work done and as to the cost shall be final and conclusive against the contractor.

37. i) VALUATION OF VARIATION

The Consultants shall determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra or additional work done or work omitted by his order.

All such work shall be valued at the rate set out in the contract, if in the opinion of the consultants the same shall be applicable if the contract shall not contain any rates applicable to be the extra additional work then reasonable prices shall be fixed by the Consultants. This shall be with the approval of Owners only.

ii) POWER OF CONSULTANT TO FIX RATE

Provided that if the nature or amount of any omission or addition relative to the nature or amount of the whole of the contract work or to any part hereof shall be such that in the contract for any item or the works is by reason of such omission or additions rendered unreasonable or inapplicable the consultant shall fix such other rate or price as in the circumstances he shall think reasonable and proper. In the event of dispute the decision of the Owners shall be final.

38. VARIATIONS

a) CONTRACTOR NOT TO VARY WORKS.

The Contractor shall not make any variation in the works except in accordance with a written variation order of the Consultants duly approved by the Owner.

b) VARIATION ORDER

The Consultant with the prior approval of the Owner may from time to time make any variation in the form, quality or quantity of the works or any part thereof that may in his opinion be necessary and for that purpose or if for any other reason it

shall in his opinion be desirable shall have power by a written variation order to order the contractor to do and the Contractor shall do any of the following:

- i) Increase or decrease quantity of any work included in the contract.
- ii) Omit any such work.
- iii) Change the character or quality or kind of any such work.
- iv) Change the levels, lines, position and dimensions of any part of the work and
- v) Execute additional or substituted work of any kind necessary for the completion of the works.

c) (i) NOT TO INVALIDATE CONTRACT

No variation order shall in any way vitiate or invalidate the Contract but the value if any of all such variations ordered shall be taken into account in ascertaining the amount of the Contract price.

(ii) CHANGE IN QUANTITIES

No such variation shall be made by the Contractor without an order in writing of the Owners through Consultant or his authorized representative PROVIDED that no order in writing shall be required for increase or decrease in the quantity of any work where such increase or decrease is not a result of an order given under the clause but is the result of the quantities exceeding or being less than those stated in the bill of quantities.

Provided also that if for any reasons the Engineer shall consider it desirable to give any such order verbally, the Contractor shall comply with such order. Any confirmation in writing of such verbal order given by the Engineer whether before or after carrying out of the order shall be deemed to be an order in writing within the meaning of this clause.

(iii) NOTICE OF INTENDED CLAIMS

No claims for any variation shall be allowed except as per the provision contained in section 39. No increase of the Contract price under clause (iii) of this section shall be made unless as soon as practicable and not later than thirty days from the date of the variation order notice shall have been given in writing subject to the approval of the Owner.

(iv) CLAIMS

The Contractor shall send to the Consultant once in every month an account of full and detailed particulars of all claims for any additional expense to which the Contractor may consider himself entitled and of all extra or additional work ordered by the Consultant as per provision of clause (39) which he has executed during the preceding month and no claim for payment for any such work will be considered which has not been included in such particulars, provided always that the Consultant with the approval of the Owner shall be entitled to authorize payment to be made for any such work notwithstanding the Contractor's failure to comply with this condition if the Contractor has at the earliest practicable opportunity notified the Consultant that he intends to make claim for such work.

39. MEASUREMENT

(i) RECORD OF MEASUREMENT

The contractor shall submit the interim bills to consultants in triplicate with complete detailed measurements for scrutiny and approval. The consultant after scrutiny of the bill shall send one copy to owner for payment and other copy to the contractor for his record.

The contractor shall be solely responsible for correct recording of the measurement of the items & get them checked by consultants before covering the hidden items.

40. SETTLEMENT OF DISPUTES

In case of any dispute or difference arising between the parties (Contractor and Owner) out of Contract which cannot be amicably settled, shall be finally settled under the provisions of the Arbitration Act. 1940 and rules made there under as amended from time to time. The venue of Arbitration shall be at Karachi.

41. MISCELLANEOUS

Within the ambit of this Contract and to further its execution, the Owner may issue directions from time to time which will be binding upon the Contractor.

42. CONTRACTOR TO PROVIDE EVERY THING

The Contractor is to provide everything of every sort and kind which may be necessary and requisite for the proper execution of the works included in the contract whether original or altered according to the intent and meaning of the drawings and specification taken together, which are to be signed by the Owner and the contractor whether the same may or may not be particularly described in the specification or shown in the drawings provided that the same are reasonably to be inferred there-from and in case of any discrepancy between the drawings and the specifications the Owner is to decide which shall be followed. The contractor shall also provide all necessary fencing and lights required to protect the public from accident, & shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to any damages and cost which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.

43. ESCALATION

a). No escalation shall be entertained on any item during first year of project.
b) No Escalation / Claim on account of fluctuations of rates shall be entertained during the currency of Contract against any item under Schedule of Rates involved in Construction of Work, unless announced (on Items) by the Govt. of Sindh after Award of Work but within contract period on "Schedule of Rates Items" only.

b). Non-Schedule Rate Items.

Escalation / claim on account of fluctuations of rates will be paid during the currency of Contract on Non-Schedule items.

The following basic rates shall be considered for calculating the escalation of the following item (Ex-factory).

O.P Cement
S.R. Cement
Steel All Diameters

Rs. 27,100/- Per Tonne Lucky Brand.
Rs. 28,600/- Per Tonne Lucky Brand.
Rs.242,000/- Per Tonne.

Difference in cost (+ / -) will be paid only for material consumed as per R.A bill.

c). No Escalation will be entertained on Schedule / Non-Schedule items after expiry of date of completion of project as envisaged in Contract unless the extension is granted due to conditions of force majeure or certain delays beyond the control of Contractor.

44. **KEEP FOUNDATIONS AND WORKS FREE FROM WATER**

If necessary, the Contractor shall provide and maintain power driven pumps to keep the works free from water. The water shall be disposed to the satisfaction of the local authorities and / or the Consultants.

45. **WATER / POWER FOR CONSTRUCTION PURPOSES**

The Contractor shall make at his own cost arrangements for water / power and shall have to lay his own distribution system to place where water / power is required. Contractor shall allow free use of water / power to his sub-contractors. If available the Owner may supply power @ 0.75% of the Contract amount and 2% for water of the contract amount for this service.

46. **BAR BENDING SCHEDULE (FOR CIVIL WORKS CONTRACTOR ONLY)**

The Contractor shall prepare bar bending schedule for commencing the work of cutting, bending and binding of the steel reinforcement of any structural member for approval of consultants and for recording in measurement book.

47. **AS BUILD DRAWING (FOR CIVIL CONTRACTORS ONLY)**

After the completion of the project the following as build drawings should be submitted to the CONSULTANTS for submission to the Owner. (To whom and where applicable)

- i. Complete Architectural Plans.
- ii. Plumbing / Drainage Layout Plans.
- iii. Electrical Installations.

In service drawings all sizes and routing of pipes, cables and wires should be clearly indicated in different colours.

48. **TERMS OF PAYMENTS**

a) **Mobilization Advance**

(1) Mobilization Advance upto 10% of the Contract Price stated in the Letter of Acceptance shall be paid by the Procuring Agency to the Contractor on the works costing Rs. 2.5 Million or above on following conditions:

- On submission by the Contractor of a Mobilization advance Guarantee for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan to the Procuring Agency;
- Contractor will pay interest on the Mobilization Advance at the rate of 10% per annum on the advance; and

- This Advance including the interest shall be recovered in 5 equal installments from the five (05) R.A bills and in case the number of bills is less than five (05) then 1/5th of the advance **inclusive of the interest** thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be incurred that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

OR

(2) **Secured Advance on Materials**

- The Contractor shall be entitled to receive from the Procuring Agency Secured Advance against an INDENTURE BOND in P.W Account Form No. 31 (Fin. R. Form No. 2 acceptable to the Procuring Agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the Site but not yet incorporated in the Permanent Works provided that:
- The materials are in accordance with the Specifications for the Permanent Works.
- Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer but at the risk and cost of the Contractor.
- 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:
- The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore:
- Ownership of such materials shall be deemed to vest in the Procuring Agency and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Procuring Agency:
- The sum payable for such materials on Site shall not exceed 75% of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;
- Secured Advance should not be allowed unless & until the previous advance, if any, fully recovered;
- Detailed account of advances must be kept in part II of running account bill; and

- Secured Advance may be permitted only against materials / quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work / contract.
- Recovery of Secured Advance
 - Secured Advance paid to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the usles and more than three months (even if unutilized). Other conditions.
- As recoveries are made the outstanding accounts of the items concerned in Part – II should be reduced to making deduction entries in the column, --- deduct quantity utilized in work measured since previous bill, equivalent to the quantities of materials used by the Contractor on items of work shown as executed in Part 1 of the bill.
- Interim Payments. The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.
- The value of work completed comprises the value of the quantities of the items in the Bill of Quantities completed.
- Value of secured advance on the materials and valuations of variations (if any).
- Engineer may exclude any item certified in a previous or reduce the proportion of any item previously certified in any certificate in the light of later information.

(v) Retention money and other advances are to be recovered from the bill submitted by Contractor.

SECTION – 5

SPECIAL STIPULATIONS AND FORMS

SPECIAL STIPULATIONS

The Stipulations outlined hereunder in the form of a Table summarize certain terms and conditions which are set forth in the Instructions to Tenderers and Conditions of Contract and these Stipulations form an integral part of the Contract.

1	Works	<u>“CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL”</u>
2	Owner	Cadet College Sanghar
3	Owner's Representative	The Principal / Project Director, Cadet College Sanghar
4	Earnest Money	2% of the Tender Price of work in the Shape of Pay order / Demand Draft issued by a Scheduled Bank of Pakistan in Favour of Vice Chancellor, LUMHS, Jamshoro, Sindh.
5	Time for commencement	Within Seven (7) days from the date of receipt of Owner's letter of Award.
6	Time for furnishing the programme	Within Ten (10) days from the date of receipt of letter of Award
7	Time of completion	As per N.I.T
8	Defects liability period	365 days from the effective date of taking over / completion certificate whichever is later.
9	a). Amount of liquidated damages	Rs. 0.05% (Point Zero Five Percent) of contract value for each day of delay in Commencement / Completion of the works subject to a maximum of 10 % of contract price stated in the Letter of Award.

11	Limit of Retention Money	5% of Final cost of the Project.
		a). 50% amount will be released after issuance of completion certificate of substantial completion of works by the Consultants.
		b). 50% amount will be released after completion of Defects Liability Period and handing over the site by the Contractor and taken over by the Owners in writing.
12	Minimum amount of interim Payment Certificate (Running Bill)	1/10 th portion of total work
13	Time required to enter into and execute the Agreement.	14 (Fourteen) days from date of Award of Work.
14	Escalation in the cost of Material and Labour	All as per Clause 43 Page 29 of special conditions of contract.
15	Time of interim payment	Within 30 days from the date of delivery of consultant's certificate to the Owner.
16	Income Tax Deduction	As per Law of Pakistan.
17	Performance Bond	To be obtained from approved Bank for a sum equivalent to 5% of Contract Price stated in the Letter of Award for the whole completion period and also for Defect Liability Period. (No. RA Bill will be processed until the Bond is submitted).
18	Insurance cover for works	It shall be a Contractor All Risk Policy and workmen's compensation policy to cover an amount equal to full contract value and cost of equipment, the labour employed by the Contractor as well as the Owner, visitors and guests. Insurance cover will be arranged by the Contractor from Insurance Company, approved by the owner and should be submitted within 30 days from the date of Owner's Letter of Award. (No. RA Bill will be processed until C.A.R Policy is submitted).

19	Minimum Amount of Third Party Insurance	Rs. 10,00,000/- (Rupees One Million)
20	Mobilization Advance	Upto 10% (Ten Percent) of the Contract amount, payable to the Contractor against irrevocable guarantee from a schedule bank approved by Owner after execution of the agreement and all other bonds.
21	Secured Advance	<p>OR</p> <p>Secured advance may be paid against non-perishable items delivered at site (No secured Advance will be paid for cement being perishable item)</p>

ACCEPTED

Contractor's Signature
With Stamp & Date

SECTION – 6

FORMS OF AGREEMENT / PERFORMANCE BOND /
MOBILIZATION ADVANCE / INTEGRITY PACT

AGREEMENT OF WORK

THIS AGREEMENT is made at Karachi on the _____ day of _____ 20____ between THE PRINCIPAL / PROJECT DIRECTOR, CADET COLLEGE SANGHAR (hereinafter called the OWNER) of the ONE PART.

and

M/S _____ having registered office at _____ (hereinafter called "Contractor") of the OTHER PART.

Whereas the OWNER is desirous that certain WORKS viz; "**CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL**" should be carried and has accepted a Tender by the Contractor for the construction, completion and maintenance of the works.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS;

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz;
 - a. Tender Notice.
 - b. Instructions to Tenders.
 - c. Special Conditions of Contract.
 - d. Special Stipulations.
 - e. Addenda & Corrigenda, if any, issued by the Owner and duly accepted by the Contractor at the signing of the Contract.
 - f. Earnest Money
 - g. Form of Tender.
 - h. Letter of Award by the Owner
 - i. Form of Agreement / Contract Agreement.
 - j. Owner's Order to Commence the Works.
 - k. Performance Bond
 - l. Contractors All Risk (C.A.R) Policy
 - m. Third Party Insurance
 - n. Other Insurance required as per Contract
 - o. Limit of Retention Money
 - p. Any correspondence by the Owner / Contractor mutually accepted by the Owner and Contractor
 - q. Technical Specifications
 - r. Bill of Quantities
 - s. Detailed Working Drawings.

3. In consideration of the convenience and agreement to be kept and performed by the Contractor, and for the faithful performance of this contract and the completion of the works embraced therein, according to the specifications and conditions herein contained and referred to or agreed to in the course of subsequent negotiations and in accordance with the "General Conditions of Contracts" the owner shall pay and the contractor shall receive full compensation for everything furnished and done by the contractor under this agreement, the contract price stipulated in the Contractor's tender, or such other sum as may be ascertained in accordance with such conditions of contract, etc, and rates quoted against each item of work and agreed to and accepted by the parties as one instrument and at the times in the manner prescribed by the conditions of contract.
4. The contractor, at his own proper cost and expense shall do all work and furnish all labour, materials, supplies, water & power, tools, machinery and other equipment and constructional plant that may be necessary for the execution of the work.
5. The maintenance of a rate of progress in the work which will result in its completion within the specified time, is an essential feature of this contract and the contractor agrees to proceed with all due diligence and care at all times and take all precautions to ensure the time of completion as defined herein, time being deemed to be the essence of the contract on the part of the Contractor.
6. The said works shall be started within 7 (Seven) days of the issue of Letter of Award from the Owner to the Contractor to proceed with the works, and the Contract shall be duly completed on or before _____
7. The Contract documents (Including any addenda thereto) consisting of the Instructions to Tenderers, the Tender for works, General Conditions of Contract, Special Provisions and Stipulations, Bill Of Quantities & rates Technical Specifications, Drawings, Performance Bond, Construction Schedule submitted by the Contractor, Letters of Award, forming part of this contract, are each and all made a part hereof, and have the same force and effect as if set forth at length herein.
8. The Owner shall deduct and retain an amount equal to 5% (Five Percent) of the amount payable to the Contractor under each "On Account" bill submitted by the Contractor as security deposit for the due and faithful discharge by the Contractor of his obligations under this agreement. The sum of such security deposit will be refundable to the Contractor after the successful completion and acceptance of works on expiry of twelve months of the maintenance period in a manner indicated in special stipulations. Income Tax will be deducted from every bill submitted by the Contractor as per Law of Pakistan.

9. That this contract agreement shall be executed in four original signed copies, three copies where of shall be filed in the office of the Owner and one given to the Contractor.
10. The owner shall make all possible efforts to pay off the running bills on account of work done, submitted by the Contractor as early as possible.

IN WITNESS WHEREOF, the Owner and the Contractor have executed this Agreement on the day and year mentioned above.

FOR AND ON BEHALF OF
CONTRACTOR

PRINCIPAL / PROJECT DIRECTOR
CADET COLLEGE SANGHAR
AT JAM NAWAZ ALI VIA TANDO
ADAM, SINDH
(OWNER)

(SEAL)

(SEAL)

Signed and delivered by the
Contractor above named in
the presence of :

WITNESS:

1. _____

2. _____

Signed and delivered by the
Owner above named in the
presence of :

WITNESS:

1. _____

2. _____

To,

PERFORMANCE BOND

WHEREAS _____

(hereinafter called the Contractor) of the one part by an agreement made between The Principal / Project Director, Cadet College Sanghar, Sindh (hereinafter called the Owner) of the other part, has entered into a Contract (hereinafter called the Contract) for the construction, completion and maintenance in conformity with the provision of the Contract works viz

AND WHEREAS in accordance with the provision of the Contract, the Contractor is required to furnish a Performance Bond for the due performance and observance of all the terms, provision and stipulations of the Contract by the Contractor & the Contractor has requested us _____ to issue the said Bond for an amount of Rs. _____

(Rupees _____ only) equivalent to 5% (Five Percent) of the Contract price.

In consideration of the premises, we _____ scheduled bank _____ hereby guarantee irrecoverably and unconditionally forthwith to pay to the owner without any reference to the Contractor on the Owner's first demand in writing stating that the Contractor has committed a default under the Contract without any further statement of the particulars of such default and notwithstanding any contestation by the Contractor an amount not exceeding Rs. _____ (Rupees _____ only) limited do hereby further declare that no alteration in the terms of the Contract made by agreement between the Owner and the contractor or in the

extent or nature of works to be constructed, completed and maintained therein and no allowance of time by the Owner or the consultant under the Contract not forbearance of forgiveness in or in respect of any matter or thing concerning the Contract on the part of the Owner or the said consultant shall in any way release this _____ scheduled bank from any liability under this Bond.

This Bond shall remain valid & in force upto the completion works and completion of maintenance period and any demand for payment made by the Owner before the date of expiry of this Bond shall be paid forthwith by this _____ scheduled bank to the Owner.

Signed and delivered by the Contractor

Above named in the presence of

1 _____

(CONTRACTOR)

Date: _____

2 _____

Signed and delivered by the
Surety above named in the
presence of

1 _____

(SURETY)

Date: _____

2 _____

MOBILIZATION ADVANCE BANK GUARANTEE FORM

To,

Sir,

We understand that you have entered into Contract with:

Messrs _____
(Full Name and Address)

(hereinafter reference to as our Customer) and that one of the conditions of the Contract is submission of Bank Guarantee in the sum of _____ against Mobilization Advance and at the request of Customer and in consideration therefore, we hereby agree and undertake as under:

1. To pay to you on demand unconditionally and without any question and without any reference to our Customer an amount not exceeding the sum of Rupees _____

_____ (in words)

As mentioned in your written demand notice in case of failure of M/s _____ to fulfill their obligation including non-completion of project within _____ months

2. We hereby guarantee to pay the full amount of this guarantee (as indicated herein above) to be beneficiary if the Contractor.
 - a. Fails to utilize the amount of Mobilization advance for the purpose agreed / indicated in the Contract.
 - b. Fails to repay and or adjust the advance by _____ irrespective of any reason.

3. In case beneficiary decides not to encash the guarantee under para 2 (b) above we guarantee to pay the interest @ _____ % month to beneficiary on the balance amount of advance outstanding against our customer till the full amount is recovered.
4. The validity period of this guarantee is upto _____ (date) unless otherwise extended by us, or when its value has been reduced to nil, or upon presentation of a copy of the Certificate with Clause _____ of the agreement, whichever is the sooner.
5. Claims, if any must be duly received by us on or before the validity date. Our liability under this guarantee will cease upon the close of banking business hours on this date. Claims received thereafter will not be entertained by us whether or not you have suffered any loss. On receipt of payment under this guarantee, this guarantee must be duly cancelled, discharged and returned to us.
6. We _____ (Bank) further agree and declare that the beneficiary shall have the fullest liberty without our consent or prior approval and without affecting in any manner our obligations, to vary any of the terms and conditions of the said agreement or to extend time of its performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the beneficiary against the contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and be it expressly declared that notwithstanding and such variations or extension being granted to the contractor(s) by the beneficiary in favour of the contractor(s), the contractor(s) shall not be relieved of their liability by reason of such variation, extension or acts of forbearance.
7. In order to give full effect to the guarantee herein contained, our liability shall not be discharged or account of beneficiary forbearance, variation, extension nor shall we claim any rights or surety ship in respect of any security which you might be having in respect of the said agreement.

8. The maximum liability under this guarantee will be reduced equal to the amount recovered by the beneficiary through the contractors running bills
9. This guarantee, within the validity period shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in beneficiary constitution.

10. The guarantee shall come into force upon receipt by M/s _____ of the Mobilization advance.

11. This guarantee shall not be revocable by us except with beneficiary previous consent in writing.

12. It shall not be necessary for beneficiary to proceed against the contractor before proceeding against us and the guarantee herein contained shall be enforceable against us notwithstanding any security which beneficiary may have obtained or obtain from contractor(s) at any time or when proceedings are taken against us.

13. We certify that our bank is a scheduled bank.

Guarantor

(_____ Bank Limited.)
Bank seal and signature

Contractor:

The signature should be of the same person who had signed the Contract.

WITNESS:

1 _____

2 _____

Full Name, Address and
N.I.C. No. of the Bank Official.

INDENTURE FOR SECURED ADVANCES.

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

This INDENTURE made the _____ day of _____ 20_____. BETWEEN (hereinafter called "the Contractor" which expression shall where the contract so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF SINDH (hereinafter called " the Government" of the other part).

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

(Here enter (the description of the work)).

AND WHEREAS the contractor has applied to the _____ for an advance to him of Rupees _____. (Rs. _____) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement for use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND

WHEREAS the Government has agreed to advance to the Contractor the sum Rupees, (Rs. _____) on the security of materials the quantities and other particulars of which are detailed in Part II of Running Account Bill (E). the said works signed by the contractor (*Fin R. Form 17.A*) on _____ and on such covenants and conditions as are hereinafter contained and the Government has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

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

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

- That the said sum of Rupees _____ (Rs. _____) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
- That the materials detailed in the said Running Account Bill (B) which have been (*Fin R. Form No. 17.A*) offered to and accepted by the Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor hereby agrees, at all times, to indemnity and save harmless the Government against all claims whatsoever to any materials in respect of which and advance has been made to him as aforesaid.
- That the said materials detailed in the said Running Account Bill (B) and all other Materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Divisional Officer _____ (hereinafter called the Divisional Officer) and in the terms of the said agreement.
- That the Contractor shall make at his own all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any Officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like qualify or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.
- Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him in that behalf.

- That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.
- That if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (he default of the Contractor and any money so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.
- That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees: _____ (Rs. _____) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly.

Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best:-

- Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in

accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the Government on demand.

- Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these present and pay over the surplus (if any) to the Contractor.
- Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

That except as is expressly provided by the presents interest on the said advance shall not be payable.

That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer _____ Circle whose _____ decision shall be final and the provisions of the Indian Arbitration Act for the time being in force so far as they are applicable shall apply to any such reference.

In witnesses whereof the * _____ on behalf of the Governor of Sindh and the said _____ have hereunto set their respective hands and seals the day and first above written.

Signed sealed and delivered by* in the presence of

Seal
1st witness 2nd witness

Signed sealed and delivered by* in the presence of

Seal
1st witness 2nd witness

SECTION – 7

TECHNICAL SPECIFICATION

SECTION – I

TECHNICAL SPECIFICATIONS

CIVIL WORK

SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all plant, labour, equipment, appliances and materials and in performing all operations in connection with excavating filling and backfilling for building construction and other foundation complete in strict accordance with the applicable drawings and subject to the terms and conditions.

1 (a) – EXCAVATION AND BACK FILLING

As specified in the Bill of Quantities.

1. (b) - DISPOSAL OF SURPLUS EARTH AND RUBBISH

All surplus earth and rubbish shall be disposed off by the Contractor at his cost as directed by the Consultants. The terms of disposal shall include all operations of loading, unloading, stacking, spreading filling depressions, consolidating & ramming in layers not exceeding 12" (300 mm) thickness.

2 CONCRETE WORK

SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all labour, equipment, appliances and materials and in performing all operations in connection with concrete work complete in strict accordance with the applicable drawing and the specifications set here in and subject to the terms and conditions of the contract.

Electrical / Mechanical poker vibrator of suitable diameter shall be used for vibrating all concrete specially R.C.C. works.

a) Full cooperation shall be extended to other trades to install embedded items. Embedded items will be inspected and tests for concrete and other materials or for mechanical operations will be completed and approved before concrete is placed.

b) MATERIALS

i) WATER

Only clean water from the city supply, tube well installed at the site or from other sources approved by the Engineer In-charge shall be used in mixing concrete, Curing, Cleaning plant and tools. The water shall be tested according to B.S. 3148. When its suitability is doubtful.

The Engineer In-charge may refuse to permit water containing any sugar, excess, acid alkali or salt. As a guide the following concentrations represent the maximum permissible values:

- i. To neutralize 260 ml sample it should be required more than 2 ml of 0.1 normal NaOH.
- ii. To neutralize 200 ml sample it should not required more than 10 ml of 0.1 normal HCL.
- iii. Percentage of solids should not exceed the following.

*	Percentage
Organic	0.02
Inorganic	0.30
Sulphates	0.50
Alkali chlorides	0.10

Table 4.3

In case of doubt the Engineer In-charge may require that concrete mixed with water proposed to be used should not have a compressive strength lower than 90% of the strength of concrete.

ii) **CEMENT:**

In all the R.C.C. structure, sulphate resisting cement shall be used upto plinth level. (If Specified in Structural drawings).

In super structure ordinary grey Portland cement (local) shall be used. Use of imported cement is totally forbidden unless approved by the CONSULTANTS.

iii) The Contractor shall provide at his own cost on the site all necessary sheds which shall be perfectly dry and water tight for the storing of cement to be delivered to the works to ensure adequate supplies being available for site work.

iv) If at any time the Consultants consider that any batch of cement may have deteriorated on site during storage of any reason he will direct that tests shall be made and the batch of cement on the site which may be in question, shall not be used until it has been shown by test to be satisfactory. Any rejected cement shall be removed from the site by the Contractor without delay. Cement reclaimed from cleaning bags or leaking containers shall not be used.

v) Cement shall be consumed in the sequence of receipt of shipment unless otherwise directed by the Consultants.

c) **AGGREGATES**

- i. All fine and coarse aggregate to be used shall be supplied from approved source which shall not be changed without permission in writing from the Consultants. Aggregate shall conform to the test requirements of B.S. No. 812 or equivalent ASTM or Pakistan Standard 243:1963.
- ii. Fine aggregate shall be approved sand to be obtained from approved source and shall be clean sharp, free from clay, earth, vegetable and organic matters, alkaline or acid reactions or other deleterious matter or impurities.

iii. Fine aggregates shall conform to British Standard specifications B.S. No. 882 and shall be graded as follows:

B.S. Sieve		Percentage (weight) Passing
No.	(Grading Zone -1)	(Grading Zone - 2)
3/8" (10mm)	100	100
3/16" (5mm)	90 – 100	90 – 00
No. 7	60 – 110	75 – 100
No. 14	30 – 70	55 – 90
No. 25	15 – 34	35 – 59
No. 52	5 – 20	8 – 30
No. 100	0 – 10	0 – 10

iv. Locally available Coarse aggregate shall be crushed stone and shall be clean free from sand, dust, salt, lime, chalk, clay, organic impurities or other deleterious matter.

v. Coarse aggregate shall conform to the relevant British Standard specifications or ASTM Standard.

vi. If required, aggregate shall be washed and screened to the satisfaction of the Consultants before use by making proper screening and washing.

vii. Sieve analysis and other necessary tests of all aggregates shall be carried out as and when required by the Consultants. Sample for such tests shall be taken in the presence of the Consultants.

viii. All costs in connection with the tests shall be borne by the Contractor.

ix. All aggregates shall be subject to the approval of the Consultants. Any aggregates not found to the required standard shall be rejected by the Consultants and shall have to be removed from site without any delay. Concrete structures executed with rejected aggregates shall be dismantled and rebuilt at the contractor's expense.

3. CLASSIFICATION OF CONCRETE

Classes of concrete to be used in various parts of the works shall be indicated on the drawings and concrete of various grades shall be proportioned as set out in Table-1 appended hereto.

Table-1 showing minimum required compressive strengths of 6 in. x 6 in. x 6 in. (150 x 150 x 150 mm) cubes and minimum quantity of cement required per 100 cubic feet of finished concrete for various mixes and under various conditions.

Class of Concrete	Nominal Mix-Ratio	Min.Qnty Bags per % cft.	Preliminary test Cubes strength.		Work test Cube strength.	
			p.s.i at 7 days	p.s.i at 28 days	p.s.i at 7 days	p.s.i at 28 days
A	1:1:2	30	4000	6000	3000	4500
B	1:1-1/2:3	24	3300	5000	2500	3750
C	1 : 2 : 4	17	2660	4000	2000	3000
D	1 : 3 : 6	13.5	1330	2000	1000	1500
E	1 : 4 : 8	10.0	900	1350	660	1000

The Mix-Ratio indicated in above table are only as guide line normally these ratios achieve the required strength but may vary due to quality of aggregates available in the area of work. The structural design is based on cube strength after 28 days. Therefore the strength should be achieved by design of mix.

To achieve the required strength is the sole responsibility of the Contractor. No Admixture is recommended for use in concrete for getting the required strength, if any Admixture is recommended by the Laboratory it may be used after approval from The Consultants at the entire RISK AND COST of the Contractor. No extra payment will be made in this regard even if the Admixture is approved by the Consultant.

4. PROPORTIONING OF CONCRETE MIXES

All concrete shall be proportioned by volume unless specifically allowed by Consultants. This proportions given in Table-1 above are suitable only when the specific gravities of the aggregate are in the region of 2.5.

The Contractor shall submit to the consultant proposed mix designs for concrete to be used, based on preliminary laboratory test to determine proportion of cement, aggregate and water in the concrete conforming to the quality and strength requirement specified herein. Preliminary test results of at least three different mixes of each class of concrete with varied water cement ratio shall be submitted. The results of 7 days and 28 days cube tests shall be used to establish the ration between 7 days and 28 days strengths.

The consultants may make adjustments in the mix for a certain work. Preliminary design of mixes and testing shall be a responsibility of the contractor. The proportions voids in the aggregate shall be controlled and if it exceeds 45%, sand and consequently the cement shall be increased by the contractor without any charge. If the proportion is less than 40%, sand shall be decreased but not the cement.

5. WATER CEMENT RATIO

5.1 SLUMP TEST

A test of the plasticity and flow ability of concrete should be made in the field in presence of Representative of Owner during every concrete operation. The slump cone is a sheet metal (or frustum of a cone) 12" high, 4" in diameter at the top and 8" in diameter at the bottom. After the mixer is fully emptied of a batch, the cone is filled in three layers, roding each layer 25 times with a 5/8" dia bullet pointed rod. The cone is then lifted and the slump is measured. The height of the pile will be less than 12". The allowable slump is generally defined in specifications.

5.2 MAXIMUM ALLOWABLE WATER CONTENT

All concrete specimens shall be made, cured and tested in accordance with British Standard or ASTM Standard. A curve representing the relation between the water content and the average 28 days compressive strength earlier strength at which the concrete is to receive its full working load shall be established for a range of value including all the compressive strength shown on the Plans. The curve shall be established by at least four points, each point representing average values for at least four test specimens. The maximum allowable water content for the concrete shall be as determined from this curve and shall correspond to a strength 15% greater than indicated on the plans. The slump for concrete shall be minimum of 1" (25mm) and a maximum of 2-1/2" (75 mm) provided the requisite strength is obtained. Corrective additions to remedy deficiencies in aggregate gradations shall be used only with the written approval of the Consultants. When such permissions are permitted the material shall be measured separately for each batch of concrete.

6. SAMPLES AND TESTING

a. GENERAL

Test cubes concrete shall be provided and stored by the Contractor as and when directed by the Consultants. Test cubes shall be tested by the approved laboratory and the contractor shall bear the charges for the same.

b. Cement shall be tested as prescribed in British Standard or ASTM Standard, at the cost of Contractor.

c. AGGREGATES

Aggregates shall be tested at Contractor's cost as prescribed in British Standard 812. In additions, fine aggregates shall be tested for organic impurities in conformity with B.S. 812 or equal ASTM Standard.

d. TESTING OF CONCRETE

- i. All test cubes shall be 6 x 6 x 6 inch (150 x 150 x 150 mm) size.
- ii. Specimens shall be cured under laboratory conditions except that the Consultants may require curing under field conditions.
- iii. Three cubes of the set shall be tested at 7 (seven) days and 3 (three) shall be tested at 28 days or at such ages as directed by the Consultants.
- iv. All cube moulds shall be steel moulds perfectly true having all internal and the meeting faces machined to smooth surface as approved by the Consultants.
- v. If the strength tests of the laboratory controlled specimens for any portion of the work falls below the minimum allowable compressive strength at 28 days required for the class of concrete used in that portion the consultants shall have the right to order replacement of the affected work.

e. PLACING CONCRETE

- i. All concrete shall be thoroughly compacted and consolidated by means of pneumatic mechanical or electrical vibrators or other approved compacting method. Care shall be taken to avoid segregation due to excessive vibration and placing / dropping of concrete from a height of more than 7'-0". The contractor shall maintain on site at all times one or more stand-by vibrators.
- ii. Compaction shall be done until the whole mass assumes a jelly like appearance and consistency, with the water just appearing on the surface. Concrete shall be sufficiently tamped and consolidated around the steel rods, care be taken that the vibrator does not as such touch steel or form work.
- iii. Hardened concrete, debris and foreign materials shall be removed from interior of forms and from inner surface of mixing and conveying equipments.
- iv. Constructions joints in concrete shall only be given at location indicated in the drawings or as approved by the Consultants. At the end of the day's work the concrete shall be finished off against a temporary shutter stop which shall be vertical and securely fixed.
- v. Should any part of the exposed surface present a rough uneven or imperfect appearance when shuttering is removed, it shall be picked out to the such depth and refilled and properly resurfaced as per directions of the Consultants.
- vi. Whole work is to be smooth, pleasing and to the entire satisfaction of the Consultants.

7. FORM WORK

48. GENERAL

The form work shall be inclusive of all labour, material, workmanship and alike. All formwork and supports thereto shall be designed by the contractor and relevant drawings shall be submitted to the Consultant for approval before the work is put in hand. Such an approval shall not relieve the contractor for all the obligations of the contract or give rise to any claims.

49. FORM WORK NOT TO INTERFERE AND INJURE WORK.

The form work shall be so designed and arranged as not be unduly interfere with concrete, during its placing, and easy to be removed without injuring the finished concrete edges, clamps, bolts and tie rods shall be used, when permitted and where practicable, in making the form work rigid and in holding it to true position.

50. OPENINGS IN FORM WORK.

Wherever the concreting is required to be carried out within forms of considerable depths, temporary openings in the side of the form shall be provided to facilitate the pouring and consolidation of the concrete. Small temporary openings shall be provided at the bottom of all forms to permit the removal of rubbish etc.

51. OPENINGS IN THE STRUCTURE AND OTHER DETAILS.

Provisions shall be kept in the form work for openings such as recesses, holes, packets, fillets etc. for housing services and other architectural details in the finished concrete or on its surface and edges as shown on drawings or as directed by the Consultants to fix all necessary inserts, dowels pipe, holdfast, etc. as shown on drawings or as directed.

52. JOINTS IN FORM WORK.

All joints in the form work shall be sufficiently water tight to prevent undue leakage or cement slurry from concrete surface not to be exposed in the finished work. The joints in the form work for all concrete surfaces to be exposed in the finished work shall be water tight jointed and perfectly smooth so as not to allow any leakage of the cement slurry from the concrete.

53. TREATMENT AFTER REMOVAL OF FORMS.

All honey combing or other irregularities are to be properly made good upon the removal of the form work and the surface made good to the satisfaction of the Consultants. All such defects must be inspected by the CONSULTANT before carrying out any remedial work.

54. No form work shall be measured and paid for separately and shall be deemed to be included in the units price of Concrete whether cast-in-situ or pre-cast and subsequently fixed in position.

8. CLEARING AND REMOVAL OF RUBBISH

On completion of works herein the contractor shall remove all concrete debris, rubbish, shuttering materials, scraps etc. from the vicinity of the structures completed. All areas shall be cleaned to the satisfaction and approval of the Consultants.

9 REINFORCEMENT STEEL

9.1 SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all materials, tools, labours and in performing all operations in connection with providing, straightening, cutting, bending, binding and fixing in strict accordance with this section of specifications, the applicable drawings, bar bending schedule, (to be prepared by the CONTRACTOR as per terms and conditions of the contract).

9.2 MATERIALS:

- i). Reinforcing steel to be new billet stock of deformed steel as specified on the drawings and shall conform to British Standard Specifications or equivalent ASTM or Pakistan Standard.

ii). The Contractor shall furnish to Consultants, Manufacturer's mills certificate to guarantee that steel meets the standard, specifications, requirements and minimum certified yield stresses as follows:

ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615

YIELD STRENGTH	60,000 Psi
ELONGATION	14 %

10. BRICK MASONRY

10.1 SCOPE OF WORK

The work covered under this section of specifications consists of furnishing all labour, material tools and plants for the satisfactory completion of the works in accordance with the drawings as specified herein and subject to the terms and conditions of the contract.

10.2 GENERAL

Each finished brick shall not be less than 3" x 4½" x 9" in size and shall have a ¼" deep frog on the upper face. All the bricks shall be regular, of homogenous texture uniform in shape and size with sharp and square arises, parallel faces and deep red colour may vary by 1/8" from the standard size. When struck, they should give a clear ringing sound. They shall not absorb more than 1/6th of their weight of water after being soaked for one hour, and shall show no sign of effervescence on drying. A good brick should not break when struck against another brick or when dropped flat from a height of 3'-0" to 4'-0" on the ground. It should have a surface so hard that it cannot be scratched by finger nail. The average compressive strength of five representative bricks shall not be less than 1,800 P.S.I.

10.3 EXECUTION

- a) Unless otherwise specified, bricks shall be laid in English Bond with the frogs upwards. Each brick shall be set with both bed and vertical joints filled with mortar and thoroughly bedded in by tapping with handles of the trowel. No half bricks or bats shall be used except where necessary to complete the Bond. Simple lipping with mortar at the edges shall not be permitted.
- b) All bricks work shall be taken up truly plumb and should be so done with a plumb and straight edge.
- c) Brick work shall be carried up all round at the same height and during construction one part of wall should not be more than 3'-0" higher than any other part.
- d) Brick work constructed shall be of best standard of workmanship obtainable and objectionable offsets in the brick work shall be removed by and at the expense of the contractor.
- e) Each course in the wall after being laid should be properly grouted to fill all of the voids in the area. The grout should be fluid enough to perform this function.

10 PLASTERING.

11.1 SCOPE OF WORK.

The work covered under this section of specifications consist of furnishing all labour, material, tools and plants for the satisfactory completion of the works in accordance with the drawings, as specified herein and the terms and conditions of the Contract.

11.2 MATERIALS.

a) CEMENT

Cement shall be as specified in the section of Plain and Reinforced Cement Concrete.

b) SAND

Sand shall be as specified in the section of concrete work except that the maximum size shall be restricted to that passing a No. 14 sieve for finishing coat and passing a No. 7 sieve for base coat (if any)

c) WATER

Water shall be as specified in the section of Concrete work.

11.3 MORTAR COMPOSITION

a) Mortar for cement plaster shall be mixed in the properties as specified in the Bill of Quantities and shall be applied in one coat or two coats thickness as given in Bill of Quantities and relevant drawings.

11.4 MORTAR BATCHING

a) Methods sand equipment used for mixing mortar shall be such as will accurately determine and control the amount of such separate ingredient entering into mortar.

b) The mortar shall be prepared by mixing the ingredients twice in a dry state, on a pucca platform or in trough and then mixing thoroughly after the addition of water.

c) Mortar shall be mixed only in sufficient quantities for immediate use and all mortar not consumed within 30 minutes after the addition of water to the dry mix shall be rejected and the same will not be allowed to be used. Mixing roughs and pans shall be thoroughly cleaned and washed at the end of each day work.

11.5 PLASTERING

a) The joints of Block Masonry, which is to be plastered, shall have $\frac{1}{2}$ " deep grooved join which should be raked before the mortar sets each day.

b) The concrete surfaces to receive plaster shall be properly roughened by dragging with wire brushes while the concrete has not hardened. In case of the hardened concrete, the surface shall be roughened.

c) The surfaces to be plaster shall be kept damp for at least two hours and then treated with cement slurry before plastering.

- d) Level pegs shall be made for all plaster work and shall be got checked from the Engineer at least one day before the plastering work is carried out.
- e) The plaster shall be laid to a true and plumb bob and a straight edge not less than 10 feet in length. All horizontal lines and surfaces shall be tested with a level and all vertical lines and corners with a plumb bob as the work proceeds. The plaster shall be finished perfectly smooth and shall be without wavy surfaces. The edge and corners shall be rounded or chamfered if instructed by the Engineer.

12. GLAZED, MATT FINISH WALL AND FLOOR TILES

12.1 GENERAL

The contractor shall supply and fix tiles as described in B.O.Q.

12.2 LAYING

- i) All tiles should be soaked in water before laying in sufficient quantity to complete a days work.
- ii) All tiles shall be set in bed of cement sand mortar to its correct level and line the mortar shall be evenly spread on the full bottom of tiles.
- iii) Joints shall be grouted with white cement mixed with matching colour of tiles as approved by the Engineer Incharge.

13. PORCELAIN, TERRAZO AND MARBLE TILES

13.1 GENERAL

- a) The contractor shall submit samples of Marble and Porcelain Tiles for flooring and dado required in various locations. The finished floors and dados shall conform in all respects to the characteristics of approved sample by the CONSULTANT / OWNER.
- b) Marble tiles shall be of first quality, free from cracks chips or any other defects and shall be uniform in tone and colour, as selected by Consultant. Marble Tiles be $\frac{1}{2}$ " thick, on floors and $\frac{3}{4}$ " thick on steps of staircases where specified.
- c) Marble Tiles in floor, steps and Risers be laid on a layer of pure white cement slurry over cement Concrete Bed.

13.2 LAYING

- i) Immediately prior to laying the tiles will be checked the lot and rejected tiles be replaced.
- ii) All Tiles shall be set in bed of cement / sand mortar to their correct lines and level and the mortar shall be spread evenly on the full bottom of tiles.

- iii) All Tiles should be set without joints (Butt joints) as approved by the Consultants.
- iv) Marble Tiles be polished and finished with chemical polish.

14. CARPENTRY, JOINERY AND HARDWARE

14.1 SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all plant, labour, equipment, appliances and materials and in performing all operations in connection with fabrication and installation of shelves, cupboards paneling, doors / windows frames, shutters etc. as per size, thickness, dimension and details shown on the working drawings, compete schedule of Doors and Windows in strict accordance with this section of the specification and the applicable drawings, finishing schedule, instructions of the Engineer.

14.2 MATERIALS, FITTINGS & SAMPLES

(i) SOFT WOOD

The timber of trees belonging to the botanical group Gymnosperms, commercial timber deodar of this group, with best quality shall be used.

(ii) PLYWOOD

Shall comply in all respects with B.S.S. 1455: 1948. The plywood shall only be obtained from approved manufactures.

The plywood used for doors, paneling and the like shall be of the thickness as specified. The grade shall be first quality. The face and back shall be free from end-joints, dead-knots, overlaps, patches and other defects. Edge joints in veneers shall be well made. Isolated pinworm holes shall be permitted provided they do not run along with plane of the veneer. The face and back shall be free smooth for painting or polishing.

(iii) TEAK VENEER BOARD

Shall be first quality obtained from the manufacture approved by the Engineer / Consultant.

14.3 HARDWARE AND FITTINGS

Hardware and fittings shall be heavy duty hardware of approved quality and manufacture otherwise mentioned in the drawings and Bill of Quantities.

14.4(i) LOCKS AND DOOR CLOSER

Shall be of the best quality available from the approved manufacturers according to the Samples approved by the Consultants.

(ii) HINGES

Shall of best quality (local) heavy duty steel hinges 3" (75 mm) in windows, 4" (100 mm) in single leaf doors and 5" (125 mm) in Main door every leaf should have 4 hinges fixed with steel screws.

(iii) All other fittings shall be best quality available from approved manufacturer. Samples shall be submitted to the consultants, for his approval. Cost of hardware shall be included in item of door and no separate payment will be made.

(iv) HARDWARE-SCHEDULE

Each flush door shutter shall be furnished with the following.

- Best quality (aluminum or bronze) Mortice lock / knobset (local)-1 No.
- Tower-bolts 8" (200 mm) long chromium plated / Aluminum (local)-2 Nos. Door closers (Japan) of approved Manufacturer where directed by the Engineer-1 No.
- Kick-plates / push plates of stainless steel 6" x 1/8" (150 mm x 3mm) where directed by the Engineer-both sides. All material will be best quality as approved / specified by the owner.

(ii). HINGES

Shall of best quality (local) heavy duty steel hinges 3" (75 mm) in windows. 4" (100 mm) in single leaf doors and 5" (125 mm) in Main door every leaf should have 4 hinges fixed with steel screws.

(iii). All other fittings shall be best quality available from approved manufacturer. Samples shall be submitted to the consultants, for his approval. Cost of hardware shall be included in item of door and no separate payment will be made.

(iv). HARDWARE – SCHEDULE

Each flush door shutter shall be furnished with the following.

- Best quality (aluminum or bronze) Mortice lock / knobset (local) -1 No.
- Tower-bolts 8" (200 mm) long chromium plated / Aluminum (local) -2 Nos. Door closers (Japan) of approved Manufacturer where director by the Engineer-1 No.
- Kick-plates / push plates of stainless steel 6" x 1/8" (150 mm x 3mm) where directed by the Engineer-both sides. All material will be best quality as approved / specified by the owner of the time of installation.

14.5 WOOD TREATMENTS

In addition to the prior seasoning treatment of timbers, ceilings frame joints, purlins, planks, all the door frames, furring strips blocking grounds, nailing strips in contact with concrete or masonry or wood or other materials, shall first be treated with the pesticides designated in relevant section on Termite control of these specifications and then with solignum or equally approved material in accordance with manufacturers / consultant's instructions.

14.6 FLUSH DOORS

Flush doors shall be solid cored as per description in Bill of Quantities covered on both side with commercial ply or Teak veneered block board as specified in drawing. The doors shall be lipped and edges fitted and hung to the frames. The flush door shall be obtained from the source approved by the consultant and shall be of uniform quality and texture.

14.7 FABRICATION

- (a) The contractor shall perform all necessary groovings, notching, tonguening, housing, rebating and all other work necessary for the correct jointings. The contractor shall also provide all metal plates, screws, nails and other fixing that may be necessary for the proper execution of the joinery work specified. The contractor shall also required to carry out all works necessary for the proper construction of all framings, etc. and for their support and fixing in the building. All wood work shall be approved and initialled be the consultant or Engineer before being fixed in position.
- (b) Any joinery which may show signs of defects arising from the unsound materials or defective workmanship before the expiry of the maintenance period shall be cut out and replaced at contractor's own expense.
- (c) All hold-fast are to be cut to size and shall be 1/8" thick M.S. flat iron as shown on the drawing.
- (d) Solid wood frames as per BOQ or as shown on drawing are to be prepared with posts tenoned with the beads or as shown on the drawings.
- (e) The shutters will be fixed to the frames with approved quality fittings. The frames will be secured with wrought iron clamps.
- (f) All doors and windows shutters shall be fabricated in workman like manner in accordance with the drawings or as directed by the Engineer.
- (g) All articles of ironmongery to be soundly and strongly made well finished and equal in quality to first grade articles of approved manufacturers.
- (h) Steel fittings are to be furnished and oxidized on exposed surfaces. Aluminum fittings are to be anodized on exposed surfaces. Aluminum fittings are to be the best quality of their kind and shall have a base coat of brass or copper.

- (i) Locks, or knob sets, handles, heavy handles etc. shall be as specified and approved by Engineer / Consultant.
- (j) Paint and Polish shall be carried out as specified in relevant section.
- (k) Anti-termite treatment of approved quality shall be applied to frames on the surface in contact with earth, or wall etc. as per directions of Engineer. Contractor's rates in BOQ for doors, windows shelves etc. shall include this item and no additional payment shall be made.
- (l) (i) Three coats of Enamel paint should be applied on all wood work after preparing all surfaces.
(ii) Three coats of Enamel paint on all steel works over priming coat of Red oxide.

14.8 SHOP DRAWINGS AND SAMPLES

The contractor should submit the shop drawings for the approval of Consultants or should submit sample of one complete door and window for approval of Consultant / Owner.

15. GLAZING

15.1 SCOPE OF WORK

The work covered under this section of specifications consists of furnishing all labour material, tools and plants and performing all operations in connection with fixing of the glass to the doors windows, skylights etc in accordance with the drawings, as specified herein and subject to the terms and conditions of the contract.

15.2 GENERAL

- (a) Size of glass indicated on drawings are only approximate actual sizes required shall be determined by measuring all panels. Glass shall be without wave, distortion or bulbs.
- (b) For wooden Doors and Windows, where provided, glass shall be secured in place with Deodar wood beading.
- (c) All glass shall be of manufacture and quality approved by the consultant or Engineer. 5 mm thick glass should be used in doors and windows and 3 mm thick glass should be used in ventilators.

15.3 ACCEPTANCE

Glass shall be protected against damage. After inspection any labels, paint smears and the glass shall be washed clean on both sides. Damaged or broken glasses shall be removed and replaced with new ones before acceptance at no additional cost.

15.4 ROOF WATER PROOFING AND INSULATION

Providing and Supplying Heat & U/V resistant Protective Liquid Membrane Roof water proofing water shield ZSAC-10/55 of M/s ZAHABIYA or MATRIX water stopper MT 22/6 in white colour etc. etc. complete as described in Nomenclature of BOQ.

16. PAINTING AND FINISHING

16.1 SCOPE OF WORK

The work covered in this section of the specifications consists of furnishing all plants, labour, equipment, appliances and materials and in performing all operations in connection with protective and general painting and finishing complete in strict

accordance with this section of the specifications and applicable drawings and subject to the terms and conditions of the contract.

16.2 GENERAL

The terms "Paints" as used herein means enamel paints Emulsion Paint, primers, colour washes, chalk washes etc. All colours shall be subject to the approval of the Consultants / Owner.

All Paints shall be of first class quality product made by an approved manufacturer ICI or equivalent approved and shall conform to the requirements of current British Standards specifications or ASTM standards.

16.3 All colours and shades shall be as directed by the Consultants / Owner. The colour of each coat of paint shall not be of a different shade from the following coat.

17. COOPERATION WITH OTHER TRADES

- (a) All work under this section shall be coordinated with the work to be done as specified under other sections of the specifications.
- (b) The contractor shall drill, tap, cut and fit the work included herein as required, to accommodate work of other trades in conjunctions with it.

18. SAMPLE

Samples of materials specified shall be submitted for approval when required by the Consultant / Owner.

SECTION – 8

LIST OF SPECIFIED MATERIAL

CADET COLLEGE SANGHAR
AT JAM NAWAZ ALI, VIA TANDO ADAM, SINDH
CONSTRUCTION OF LAL SHAHBAZ QALANDAR
BOYS HOSTEL

LIST OF SPECIFIED MATERIAL.

S.NO	MATERIAL	BRAND NAME	MANUFACTURE R	AGENCY / DISTRIBUTOR	SOURCE
1	ORDINARY PORTALAND / SULPHATE RESISTANCE CEMENT	LUCKY BRAND/D.G KHAN/ FALCON			HYDERABAD
2	WHITE CEMENT	MAPLE LEAF OR ANWARZEB			HYDERABAD
3	CRUSHED STONE				ONGAR/ NORIABAD
4	SAND				BOLHARI/ NORIABAD
5	STEEL (DEFORMED)	AMRELLI / SHEIKHOO / FF / NAVEENA			HYDERABAD SINDH
6	FIRST CLASS BURNT BRICKS				
7	GLAZED TILES		MASTER / SHABBIR TILES OR APPROVED EQUIVALENT		HYDERABAD
8	PORCELAIN TILES		SHABBIR / MASTER / GRANITE/SONE X OR EQUIVALENT APPROVED		HYDERABAD
9	ALUMINIUM DOORS / WINDOWS		LUCKY / PAK CABLE		MANUFACTURE R SUPPLY

LIST OF APPROVED ELECTRICAL & ELV MANUFACTURER

Samples of all equipment's shall have to be got approved prior to their procurement. The bidder has to sign and stamp all pages of Annexure-1. Any deviation from the BoQ / Specification shall be listed in a separate sheet to be labeled as Annexure-2 containing the details of the deviation including the deviating BoQ item number.

S.No	Manufacturer / Supplier	Country Of Origin
LOW VOLTAGE (LV) PRODUCTS		
LV Switchboards / Distribution Boards / PFI Panels		
a.	Baber Brothers	Pakistan
b.	Volamp	Pakistan
c.	Al-Rehman Switchgear	Pakistan
d.	PEL	Pakistan
Circuit Breakers		
a.	M.G. (Schneider Electric)	France / Italy
b.	Terasaki	Japan / Malaysia / Spain
c.	ABB	Germany / Italy
d.	Siemens	Germany
CT, PTs Relay & Instruments		
a.	Schneider Electric.	France
b.	Siemens	Germany
c.	Revalco	Italy
d.	ABB	Italy
PFI Plant		
a.	Nokian	Finland
b.	Schneider	France
c.	ABB	Italy
d.	Circutor	France
Load Break Switches, Changeover Switches		
a.	Socomec	France
b.	Kraus & Naimer	Austria
Push Buttons, Switches, Etc.		
a.	Schneider Electric	France / Italy
b.	Maruyasa	Japan/Malaysia/Indonesia
LV Cables & Wires		
a.	Pakistan Cables	Pakistan
b.	Fast Cables	Pakistan
c.	Allied Cables	Pakistan

S.No.	Manufacturer / Supplier	Country Of Origin
Cable Glands, Lugs, Terminals and Accessories		
a.	Cembre	UK
b.	Hubbell / Hawke	UK
PVC Conduits and Accessories		
a.	Galco	Pakistan
b.	Dadex	Pakistan
c.	Jeddah Polymer	Pakistan
d.	Civic	Pakistan
Cable Tray / Trunking		
a.	A to Zee	Pakistan
b.	Premier Engineering	Pakistan
c.	Ashraf Industries	Pakistan
Back Boxes		
a.	Hussain & Co.	Pakistan
b.	Hensel	Germany
c.	Jeddah Polymer	Pakistan
Switch & Socket Outlets / Floor Boxes		
a.	Clipsal (Schneider Electric)	Australia / Singapore
b.	M.K.	UK
c.	Legrand	France/UK
FAN & Accessories		
a.	Pak Fan	Pakistan
b.	GFC Fan	Pakistan
c.	Millat Fan	Pakistan
Lighting Fixtures		
a.	Philips	Netherland/China
b.	nVc	USA/China
c.	Pierlite	Australia/China
d.	Sunlight	China
Contactors		
a.	Telemecanique (Schneider Electric)	France / Italy
b.	National	Japan
c.	ABB	Germany
Earthing		
a.	Furse	UK
b.	Wallis	UK

LOW CURRENT PRODUCTS		
S.No.	Manufacturer / Supplier	Country Of Origin
Telephone Cable		
a.	Clipsal (Schneider Electric)	Australia / France
b.	3M	UK
c.	Panduit	UK
CCTV		
a.	DAHUA	China
b.	HIKVISION	China
c.	ACTI	Korea

SECTION – 9

BILL OF QUANTITIES

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS
HOSTEL

SUMMARY OF COST

1 CIVIL WORK. _____

2 PLUMBING WORK. _____

3 ELECTRICAL WORK. _____

Total: (1 + 2 + 3) _____

CONTRACTOR

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS
HOSTEL

SUMMARY OF CIVIL WORKS

A. SCHEDULE ITEMS: _____

B. NON - SCHEDULE ITEMS: _____

Total: (A + B) _____

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL
CADET COLLEGE SANGHAR
BILL OF QUANTITIES
CIVIL WORKS

S.#	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
A - SCHEDULE ITEMS					
1	JUNGLE CLEARENCE Jungle Clearance and removing within 100 feet (a) Light Chapter # 18, Page-88, Item # 4(a)	12,971	Per Sft	0.4	5,188
2	EXCAVATION Excavation in foundation of Building, Bridges and other Structures including dagbeling dressing, refilling around structure with excavated earth watering and ramming lead upto one chain (30 metre) and lift upto 5 ft. (1.5 metre) (b) In ordinary soil Chapter # 1, Page-27, Item # 18(b)	95,531	Per Cft	11.88	1,134,908
3	EARTH FILL Filling, watering and ramming earth under floor with new earth (excavated from outside) lift upto 5 ft and lead upto 10 miles including cost of earth. Chapter # 1, Page-27, Item # 22	67,022	Per Cft	47.02	3,151,374
4	LEAN (1:4:8) Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering). (i) Ratio. 1:4:8 Chapter # 4, Page-34, Item # 5(i)	4,399	Per Cft	348.83	1,534,503
5	REINFORCEMENT STEEL Fabrication of deformed steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and festenings including cost of binding wire (also includes removal of rust from bars). (a) Deformed Bar. (i) Grade - 60 Chapter # 4, Page-36, Item # 8(a)(i)	3,727	Per Cwt	18934.02	70,567,093
6	P.C.C. (1:3:6) Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering). (h) Ratio: 1:3:6 Chapter # 4, Page-34, Item # 5(h)	2,422	Per Cft	388.67	941,359

S.#	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
6(B)	<u>SHUTTERING</u> Erection & removal of centering for RCC or plain cement concrete works of Partal Wood.				
(b)	Vertical	4,010	Per Sft	106.48	426,985
7	<u>D.P.C</u> Damp proof course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture.				
(b)	2" thick Chapter # 4, Page-38, Item # 28(b)	1,660	Per Sft	126.97	210,770
8	<u>BRICK WORK</u> Pacca brick work in ground floor in (including striking of joints).				
(I)(c)	Cement Sand Mortar (1:4) Chapter # 5, Page-40, Item # 5(I)(c)	21,568	Per Cft	397.85	8,580,829
	Add extra labour in Item # 5 for brick work in: First Floor Second Floor	5,215 1,738	Per Cft Per Cft	17.23 39.11	89,854 67,973
9	<u>CERAMIC TILES (TOILET)</u> Laying floor of approved coloured glazed tiles 1/4" thick floor of approved colour & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching colour and finishing. Chapter # 8, Page-56, Item # 25	916	Per Sft	325.40	298,066
(b)	Laying floor of approved coloured glazed tiles 1/4" thick dado of approved colour & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching colour and finishing. Chapter # 8, Page-55, Item # 24	2,472	Per Sft	389.36	962,498
10	<u>PLASTER (1/2")</u> Cement plaster 1:4 upto 12' height. 1/2" thick. Chapter # 9, Page-62, Item # 11(b)	91,784	Per Sft	39.83	3,655,757
11	<u>PLASTER (3/8")</u> Cement plaster 1:4 upto 12' height. 3/8" thick. Chapter # 9, Page-62, Item # 11(a)	91,784	Per Sft	37.78	3,467,600
12	<u>NEERU PLASTER</u> Cement Neru plaster 1:2 Cement and Sand upto 20 ft. (6.10 metre) 1/2" thick Chapter # 9, Page-61, Item # 5(b)	330	Per Sft	44.62	14,725
13	<u>DISTEMPER</u> Distempering New Surface (iii) Three Coats Chapter # 9, Page-63, Item # 24(c)	86,282	Per Sft	17.23	1,486,639

S.#	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
14	<u>WEATHER SHIELD PAINT</u> Preparing the surface and painting with weather coat including rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make. Chapter # 9, Page-64, Item # 38(A) (b) 2nd and subsequent coat Chapter # 9, Page-64, Item # 38(B)	27,398	Per Sft	39.38	1,078,933
		27,398	Per Sft	23.60	646,593
15	<u>WINDOWS / DOOR PAINT</u> Preparing surface and painting doors and windows any type. (including edges). (i) Priming Coat. (ii) Each subsequent coat. Chapter # 11, Page-73, Item # 5(c) (i) (ii)	2,750 2,750	Per Sft Per Sft	11.30 7.11	31,075 19,553
16	<u>DOOR & WINDOWS</u> First class deodar wood wrought joinery in doors and windows etc. fixed in position including chowkhats hold fasts, hinges iron tower bolts, chock cleats, handles and cord with hooks etc. Deodar pannelled or Pannelled and glazed or fully glazed. (b) Deodar Wood. Deduct for wooden frame from rate. Chapter # 10, Page-68, Item # 25(b)	1,375	Per Sft	1233.27	1,695,746
17	<u>ARCHITRAVE / WOODEN BIDDING</u> Providing & fixing with sunk iron screws Wooden Architrave approved design / shape having width not less than 2-1/2" inches as directed by Engineer Incharge. Chapter # 10, Page-71, Item # 60	2,968	Per Rft	136.4	404,835
18	<u>MORTICE LOCKS</u> Providing & fixing approved quality mortice lock. Chapter # 10, Page-68, Item # 21	92	Each	1039.05	95,593
19	<u>IRON GRILL</u> Providing & fixing iron steel grill using solid square bars of size 1/2"x1/2" placed at 4" I/c and frame of flat iron patti of 3/4"x3/4" I/c circle shape at 1-0 apart equivalent fitted with screws are pins i/c painting 3 coats with 1st coat of red oxide paint etc. Chapter # 17, Page-86, Item # 30	1,122	Per Sft	833.27	934,929

S.#	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
20	GROOVE PLASTER Extra labour rate for making grooves of 1"x1/4" or 3/4"x1/2" plastered surface with true edges both vertically and horizontally with uniform depth and with groove base smoothly finished etc. complete as per instruction of Engineer Incharge. Chapter # 9, Page-64, Item # 34	2,740	Per Rft	31.19	85,461
21	ROOF SCREED / FLOOR Providing & laying 1" thick topping of cement concrete (1:2:4) including Surface finishing and dividing into panels. (c) 2" thick (d) 3" thick Chapter # 8, Page-55, Item # 16(c) & (d)	11,662 12,245	Per Sft Per Sft	108.75 145	1,268,243 1,775,525
22	DRIP COURSE Making drip course 2"x1/2" (50x12mm) under RCC Slab edges in outer opening, in cement sand mortar (1:2). Chapter # 7, Page-53, Item # 48	527	Per Rft	34.42	18,139
23	ALUMINIUM SHEET Providing & fixing Aluminium sheet on doors pasted with glue as per requirement. Chapter # 10, Page-71, Item # 61	878	Per Sft	115.38	101,304
					104,752,049
	Add / Deduct		% above / below		
			TOTAL:		

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL
CADET COLLEGE SANGHAR
BILL OF QUANTITIES
CIVIL WORKS

S.#	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
<u>B - NON - SCHEDULE ITEMS</u>					
1	R.C.C Providing and laying reinforced cement concrete using Hub River crushed stone aggregate 3/4 inch (19 mm) and down gauge having a minimum works cylindrical crushing strength of 3000 psi for foundation, plinth beam, roof beam, slab, wall and for 4000 PSI columns at 28 days of any shape including using SBR and water tight form work and its removal, compacting, leveling vibrating and curing etc. complete but excluding the cost of reinforcement. (Sulphate resisting cement will be used up to Plinth level). (iii) 3000 PSI (iv) 4000 PSI	47,875 3,990	Per Cft Per Cft		
2	STONE SOLING Providing and laying soling stones 4 inches to 6 inches under Footings, floors including packing with spawls and chips and consolidating compacting watering etc. complete.	8,038	Per Cft		
3	ANTITERMITE Provide & apply Antitermite treatment using MIRAGE of Ali Abkar Enterprises or equivalent approved quality in various stages e.g. under ground treatment at various stages and each floor including all wooden work. Plinth area will be measured once for all operations. (The Contractor will give 10 years Guarantee).	12,862	Per Sft		
4	WATER SPOUTS Providing & fixing water spout. UPVC 4" dia Pipe & 4.5' long	30	Each		

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

**CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS
HOSTEL**

SUMMARY OF PLUMBING WORKS

A. SCHEDULE ITEMS: _____

B. NON - SCHEDULE ITEMS: _____

Total: (A + B) _____

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

NAME OF WORKS: CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

CLIENTS: CADET COLLEGE SANGHAR

JOB DESCRIPTION: BILL OF QUANTITIES (WATER SUPPLY AND SANITARY INSTALLATION)

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
A - SCHEDULE ITEMS					
1	<p>Providing and Fixing orisa type white or colour glazed earthen ware w.c. pan with cost of low level plastic flush tank of 3 gallons capacity of approved quality i/c making requisite number of holes in wall. Plinth and floor and making good in cement concrete 1:2:4</p> <p>A. W.C pan orisa type 23" with plastic tank of low down 3 gallons C.I trap and C.I thumble (superior quality)</p> <p>(ii) with 4 inch dia earthen ware trap & plastic thumble.</p> <p>Chapter # 01, Item # 3(a), Page-204</p>	18 Nos.	10,440.50	Each	187,929
2	<p>Providing & Fixing 24" x 18" lavatory basin in white glazed earthen ware complete with i/c the cost of W.I or C.I Cantilever brackets 6 inch built into wall, painted white in two coat after a primary coat of red lead paint a pair of $\frac{1}{2}$" dia chrome plate pillar traps $1\frac{1}{2}$" dia rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or cp brass traps malleable iron or brass union & making requisite number of holes in walls plinth & floor for pipe connection and making good in cement concrete 1:2: (standard pattern)</p> <p>Chapter # 01, Item # 8, Page-205</p>	22 Nos	9,495.14	Each	208,893
3	<p>Add extra for labour for providing and fixing of eathern ware pedestal white or colored glazed (standard pattern).</p> <p>Chapter # 01, Item # 9, Page-205</p>	22 Nos	3,276.00	Each	72,072
4	<p>Providing and fixing in position nyloon connections complete with $\frac{1}{2}$" dia brass stop cock with pair of brass nuts and lining joints to nyloon connection.</p> <p>Chapter # 01, Item # 22, Page-207</p>	95 Nos	760.50	Each	72,248
5	<p>Providing and fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long C.P. brass screws.</p> <p>(iii) Towel Rail 30" Long</p> <p>Chapter # 02, Item # 1(iii)(a), Page-208</p>	26	945.07	Each	24,572

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
6	Supplying and fixing soap tray made of plastic of superior quality and design with fine finishing with C.P. screws etc. complete. Chapter # 02, Item # 5, Page-208	26 Nos	585.00	Each	15,210
7	Add extra labour for concealed pipe and fittings i/c making recess in the wall for pipe and making good in cement mortar etc. complete. (i) ½" dia (ii) 3/4" dia (iii) 1" dia Chapter # 04, Item # 2(i)(ii)&(iii), Page-211	200 250 30	159.30 199.83 272.35	P.Rft P.Rft P.Rft	31,860 49,958 8,171
8	Providing and fixing full way gun metal valves with wheels, threaded or flanged ends with rubber washing.(gate valve) 1-1/2" dia (standard pattern) Chapter # 06, Item # 4(B)(c), Page-215	4	1,614.60	Each	6,458
9	Supplying & fixing handle valve (china) (ii). 1" dia Chapter # 06, Item # 5(c), Page-215	1	1,907.10	Each	1,907
10	Constructing manhole or inspection chamber for the required dia of circular sewer and 3'-6" (1067 mm) depth with walls of B.B in cement mortar 1:3 cement plastered 1:3 , ½" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I. manhole cover with frame of clear opening 1½" x 1½" (457 x 457 mm) of 1.75 Cwt. (88.9 kg) embedded in plain C.C. 1:2:4 and fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc. complete as per specification and drawing No. D.P/I of Public Health Circle Southern Zone. (a) 4" to 12" dia 2' x 2' x 3'-6" Chapter # 11, Item # 1(a), Page-148 Note: Deducted from the above cost at the rate of Rs. 4234 per foot depth, where depth of Manhole is less than 3'-6" or 1067mm)	17	55,584.18	Each	944,931
11	Supplying & Fixing swan type pillar cock of superior quality with single c.p head 1/2" dia.	26	1,029.60	Each	26,770

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
12	Chapter # 06, Item # 16(a), Page-217 S/Fixing concealed tee cock of superior quality with c.p head 1/2" dia Chapter # 06, Item # 11(a), Page-216	27	1,614.60	Each	43,594
13	Supplying and fixing in position C.P Bib Cock 3/4" dia C.P bib cock, standard pattern Chapter # 06, Item # 2(c), Page-215	50	1,544.40	Each	77,220
14	Providing UPVC pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling. UPVC Nikasi pipe 4" dia. UPVC Nikasi pipe 3" dia. Chapter # 04, Item # 2(iv)(v)&(vi), Page-211	350 360	465.53 836.36	P.Rft P.Rft	162,936 301,090
15	(a). Supplying & fixing concealed stop cock of superior quality with C.P head 1/2 inch dia. Chapter # 06, Item # 12(a), Page-216	27	1,615	Each	43,594
16	Providing and fixing steel sinks stainless local bt make complete with cast iron or wrought iron LINA ALVH brackets 6 inches built into wall, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass waste with 1-1/2" P.V.C waste pipe & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.				
17	Supplying and fixing jet shower with rod of each superior quality single C.P head 1/2" dia. Chapter # 06, Item # 15(a), Page-217	26	3,486.60	Each	90,652
			TOTAL "A"		2,370,063
			Add / Deduct	% above / below	
				TOTAL:	

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

NAME OF WORKS: CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

CLIENTS: CADET COLLEGE SANGHAR

JOB DESCRIPTION: BILL OF QUANTITIES (WATER SUPPLY AND SANITARY INSTALLATION)

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
<u>B - NON-SCHEDULE ITEMS</u>					
1	Supplying and fixing UPVC Plydex (P.P.R) manufactured by Dadex eternit Ltd cold water internal and external water supply pipe or approved equivalent including all cutting, fitting, bends, tees, specials as required etc jointed with solvent / special adhesive laid in floor walls trench making holes and making them good with C.C 1:2:4 etc complete as per direction.				
	(i) UPVC Polydex (PPR) pipe 1/2" dia.	200		P. Rft.	
	(ii) UPVC Polydex (PPR) pipe 3/4" dia.	250		P. Rft.	
	(iii) UPVC Polydex (PPR) pipe 1" dia.	50		P. Rft.	
	(iv) UPVC Polydex (PPR) pipe 1-1/2" dia.	130		P. Rft.	
	(v) UPVC Polydex (PPR) pipe 1-1/4" dia.	200		P. Rft.	
	(v) UPVC Polydex (PPR) pipe 2" dia.	200		P. Rft.	
2	Providing and Fixing a P.V.C trap with 4" dia inlet and 4" out let of the approved self clearing design with a P.V.C grating 6" x 6" with or without a vent arm including cost of making requisite number of holes in walls plinth and floor for pipe connection and making good cement concrete 1:2:4	14		Each	
3	Providing and fixing 6" x 2" or 6" x 3" floor trap of the approved self cleaning design, with a UPVC grating 6" x 6", with or without vent arm complete with and including making requisite number of holes in walls, plinth and floor for pipe connections and making good in C.C. 1:2:4 etc.	29		Each	
4	Providing and fixing 6" x 4" P.V.C gully trap with 4" outlet complete 6" x 6" PVC cover with PVC frame.	7		Each	
5	Providing and fixing 24" x 24" beveled edge Mirror best quality Pak made fixed with 4 Nos clamp set and brass screw fixed to wood cleat	26		Each	

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
6	Providing & fixing a P.V.C clamps of the approved design to 4" dia pipe sockets including the cost of cutting and making good to wall or M.S bolts & nuts, 4" into wall including pipe distances extra painting to match the colour of the building.	78		Each	
7	Supply, fixing, testing and commissioning of clean out plug of 4" dia along with specials, fittings, bends, sleeves, masking plates, traps, vent cowl, chiseling, making hole, excavation, backfilling making good where as required to operate as per specifications, drawings and instructions of Consultant.	5		Each	
Total of non-schedule items			Total		

YOUNG ASSOCIATES
(CONSULTING ENGINEERS AND ARCHITECTS)

CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS
HOSTEL

SUMMARY OF ELECTRICAL WORKS

A. SCHEDULE ITEMS:

B. NON - SCHEDULE ITEMS:

Total: (A + B)

BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

EXECUTIVE SUMMARY OF COST OF ELECTRICAL & ALLIED WORKS		
SECTION	DESCRIPTION	TOTAL
SECTION-A	WIRING & WIRING ACCESSORIES	AMOUNT (PKR)
SECTION-B	LIGHTING FIXTURES	713,722
	TOTAL COST FOR ELECTRICAL WORKS	12,166,383
	Add / Deduct % above / below	
	TOTAL:	

**BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL**

ENGINEER'S ESTIMATE OF ELECTRICAL & ALLIED WORKS						
ITEM #	CSR No.	DESCRIPTION	QTY.	UNIT	COMPOSITE RATE	
					RATE PKR	AMOUNT PKR
		SECTION - A WIRING / WIRING ACCESSORIES				
		Providing, installation, testing & commissioning of following items including all material, tools, labor & accessories required for completion of work as per specifications, details & drawings. Complete in all respects. Megger Test Report of all wiring shall be submitted by contractor to consultant.				
		<u>SMALL WIRING FOR LIGHTS</u>				
	C	<u>WITH 3 WIRE PVC CONDUIT ON SURFACE</u>				
A1	C17	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in $\frac{3}{8}$ " dia PVC conduit on surface. Average Length 100 Rft. (667.06 / FT)				
a		3-7-3/.029 PVC, Cu	5060	Per Ft	667.06	3,375,324
	N	<u>POINT WIRING SUB-HEAD II</u>				
A2	N-102	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required.	236	Per Point	6,573.50	1,551,346
A3	N-102	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required..	256	Per Point	6,573.50	1,682,816
		<u>SMALL WIRING FOR POWER</u>				
	C	<u>WITH 3 WIRE PVC CONDUIT ON SURFACE</u>				
A4	C17	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in $\frac{3}{8}$ " dia PVC conduit on surface. Average Length 30 Rft. (667.06/ FT)				
a		3-7-3/.029 PVC, Cu	4840	Per Ft	667.06	3,228,570
	N	<u>POINT WIRING SUB-HEAD II</u>				
A5	N-103	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required				

**BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL**

ENGINEER'S ESTIMATE OF ELECTRICAL & ALLIED WORKS						
ITEM #	CSR No.	DESCRIPTION	QTY.	UNIT	COMPOSITE RATE	
					RATE PKR	AMOUNT PKR
a		3/.029 PVC, Cu	244	Per Point	3,816.06	931,119
		<u>WIRING FOR WATER TRANSFER PUMP</u>				
A6	C-18	Wiring for Water Transfer Pump Providing & laying (Main or Sub Main) PVC insulated with size 3-7/.036(4mm ²) copper conductor in $\frac{3}{4}$ " dia PVC conduit on surface. Average Length 100 Rft..	300	Per Ft	916.79	275,037
		<u>WIRING FOR BOOSTER PUMP</u>				
A7	C-18	Wiring for Booster Pump Providing & laying (Main or Sub Main) PVC insulated with size 3-7/.036(4mm ²) copper conductor in $\frac{3}{4}$ " dia PVC conduit on surface. Average Length 100 Rft..	300	Per Ft	916.79	275,037
		<u>WIRING FOR COMBOX</u>				
A8	C17	Wiring for Comrbox Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in $\frac{3}{4}$ " dia PVC conduit on surface. Average Length 30 Rft. (667.06/ FT)	200	Per Ft	667.06	133,412
		<u>TOTAL AMOUNT - SEC - A (PKR)</u> (CARRIED FORWARD TO SUMMARY)	.		-	11,452,661
		SECTION - B LIGHTING FIXTURES				
		Providing/ Supplying , Installation, testing and commissioning of the following lighting fixture including all accessories like electronic ballast, lamps, mounting arrangements etc. Complete in all respects. Mounting accessories shall be provided by contractor like screws, nuts, bolts, strings etc.				
B1	195 ©	<u>CEILING FAN</u> Providing & fixing A.C Electric Ceiling fan 56" (good quality) As approved by architect.	48	Nos.	14,869.21	713,722
		<u>TOTAL AMOUNT - SEC - B (PKR)</u> (CARRIED FORWARD TO SUMMARY)			-	713,722

**BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR
CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL**

EXECUTIVE SUMMARY OF COST OF ELECTRICAL & ALLIED WORKS		
SECTION	DESCRIPTION	TOTAL
		AMOUNT (PKR)
SECTION-B	WIRING DEVICES / RECEPTACLES	
SECTION-C	LIGHTING FIXTURES	
SECTION-D	DISTRIBUTION BOARDS AND CABLES	
SECTION-E	CABLE RACEWAYS / CONTAINMENTS	
SECTION-F	COMMUNICATION SYSTEM	
SECTION-G	GROUNDING & BONDING	
TOTAL COST FOR ELECTRICAL WORKS		

BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

BILL OF QUANTITIES OF ELECTRICAL ALLIED WORKS FOR CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

SECTION – 10

FORM OF TENDER

FORM OF TENDER

CADET COLLEGE SANGHAR **AT JAM NAWAZ ALI, VIA TANDO ADAM, SINDH**

TO
THE PRINCIPAL / PROJECT DIRECTOR
CADET COLLEGE SANGHAR
AT JAM NAWAZ ALI, VIA TANDO ADAM,
PH: 235-548001-4

Dear Sir,

1. Having examined the instructions to Tenderers, Conditions of Contract, Special Stipulations, Appendices, Specifications, Bill of Quantities and Drawings for the construction, completion and maintenance of the above named works, we, the undersigned Tenderer, offer to construct, complete and maintain the whole of the said works in accordance with the said Conditions of Contract, Special Stipulations, Appendices, Specifications, Bill of Quantities and Drawings for the Tender Price of Pakistan Rupees _____
2. Should a Notice of Award accepting this Tender be issued to us, we undertake;
 - a) To abide by and fulfill all the terms and provisions of the Conditions of Contract contained in the documents mentioned above.
 - b) To commence the works within 07 (Seven) days of receipt of the OWNER's written order to commence, and to complete and deliver all the works comprised in the contract on or before the expiry of 18 (Eighteen) calendar months, after receipt of the said order to commence.
 - c) To sign within 14 (fourteen) days following the issue of the said Notice of Award, an Agreement in the form set out in this Tender with such alterations and additions thereto as you may require to adopt such Agreement to the circumstances of this tender, and for this purpose, to attend or to cause one or more representatives duly authorized by us under appropriate power(s) of attorney to attend your office.
3. We agree that this Tender shall remain valid for a period of 90 (ninety) days from the date set for opening the Tenders and it shall remain binding upon us and may be accepted by you at any time before the expiration of the said period.
4. We further agree to pay all costs towards the execution of the formal agreement including the cost of stamps.

5. We understand that unless and until a formal Agreement is prepared and executed, this Tender together with the Tender Documents and Letter of Award accepting this Tender, shall constitute a binding contract between us.
6. We also understand that you are not bound to accept the lowest or any Tender you may receive.
7. As a guarantee for the performance of the undertakings and obligations of this Tender, we submit herewith Earnest Money of equivalents to 2% of total tender cost of Rs. _____ (Rupees _____) in the form of a Pay Order / Demand Draft No. _____ dated _____ of the _____ Bank Ltd, Branch _____ being a Scheduled Bank, made in your favour and made payable to you, without any reference to us, and valid for 90 (ninety) days from the date established for opening of Tenders.
8. We certify that we clearly understand the terms and conditions of agreement as explained in the Tender Documents.

WITNESSES

Name and Address
Of Tenderer _____

1. _____

Title of Person
Signing the Tender _____

2. _____

Seal _____

SECTION – 11

TENDER DRAWING



CADET COLLEGE SANGHAR

CONSTRUCTION OF
LAL SHAHBAZ QALANDAR BOYS HOSTEL

**ARCHITECTURAL, STRUCTURAL,
PLUMBING & ELECTRICAL**

TENDER DRAWINGS

PREPARED BY:



YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
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CADET COLLEGE SANGHAR

CONSTRUCTION OF
LAL SHAHBAZ QALANDAR BOYS HOSTEL

ARCHITECTURAL DRAWINGS

TENDER DRAWINGS

PREPARED BY:

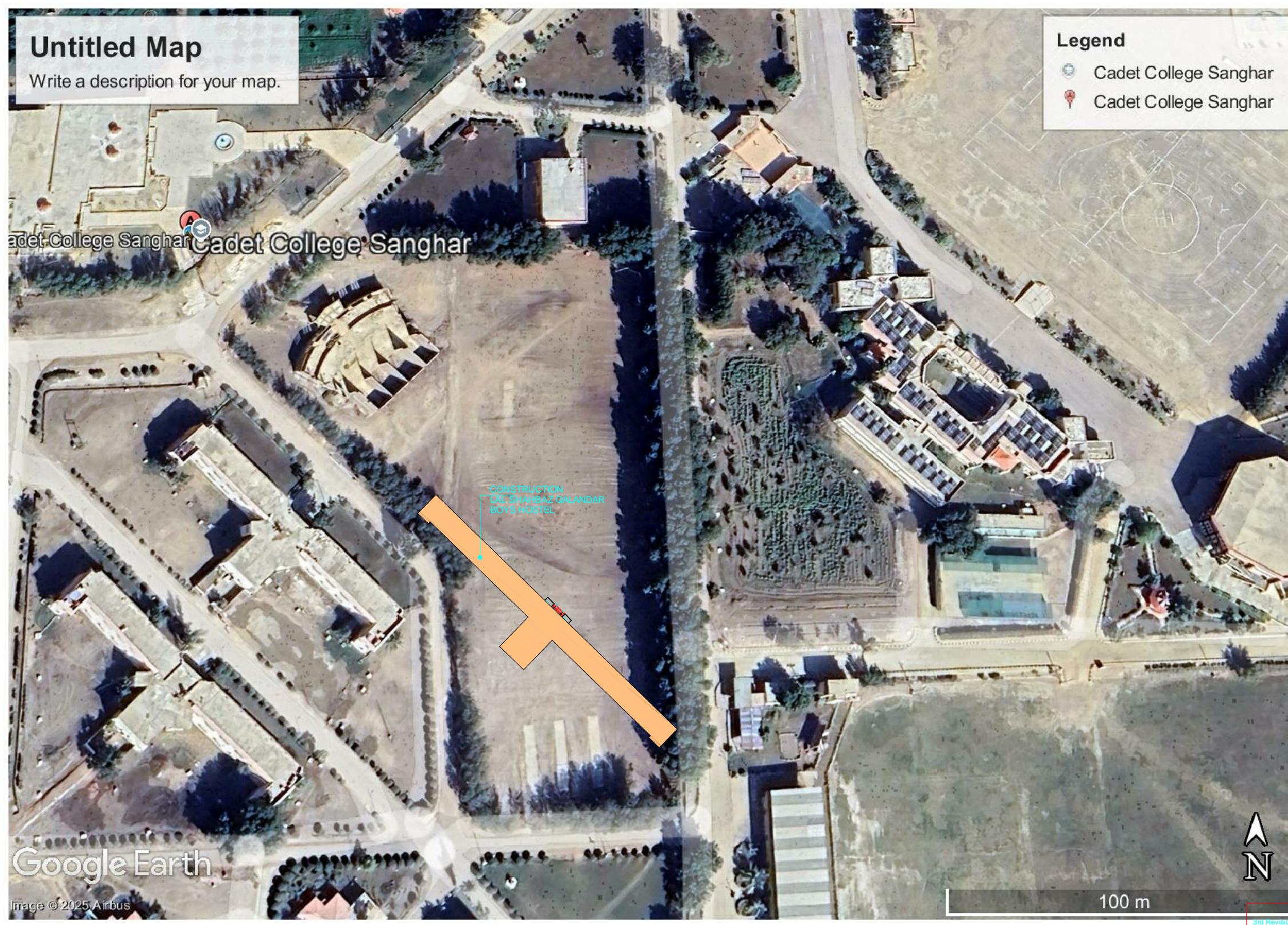


YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
9-C 24 th Commercial Street, Phase II (Extension) Defence Housing
Authority, Karachi-75500
Tel :021-35396444, 021-35312244, FAX : 021-35883106
E-mail: info @ young associates .com.pk

LIST OF ARCHITECTURAL DRAWINGS

S.NO.	DWG. NO.	DESCRIPTION
1	303/10 AR-00	LIST OF ARCHITECTURAL DRAWINGS
2	303/10 AR-101	GOOGLE IMAGE
3	303/10 AR-102	GROUND FLOOR PLAN
4	303/10 AR-103	FIRST FLOOR PLAN
5	303/10 AR-104	SECTION AT A-A

3rd Revision :	-----	Date :	-----
2nd Revision :	-----	Date :	-----
1st Revision :	-----	Date :	-----
ISSUED FOR		TENDER DRAWING	
		Date : 09-12-2025	
CLIENT: CADET COLLEGE SANGAR JOB TITLE: CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL		DESCRIPTION: LIST OF ARCHITECTURAL DRAWINGS	
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		JOB NO.: 303/10 DRG. NO.: 303/10 AR-00 DRAWN BY: AAMIR CHECKED BY: MUNEER SCALE: 1"-25'-0" DATE: 22-11-2025	



3rd Revision : _____ Date : _____

2nd Revision : _____ Date : _____

1st Revision : _____ Date : _____

ISSUED FOR TENDER DRAWING Date : 09-12-2025

CLIENT: CADET COLLEGE SANGAR DESCRIPTION: GOOGLE IMAGE

JOB TITLE: CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL

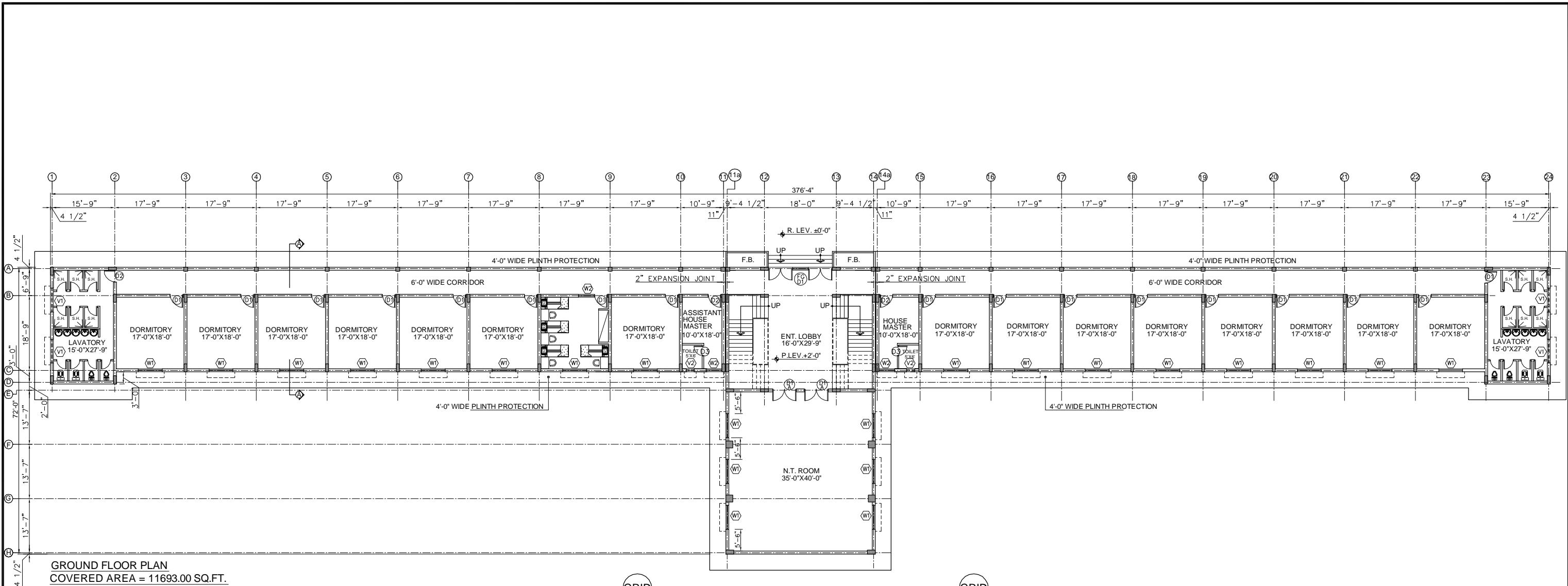
JOB NO: 303/10

DRG. NO.: 303/10 AR-101

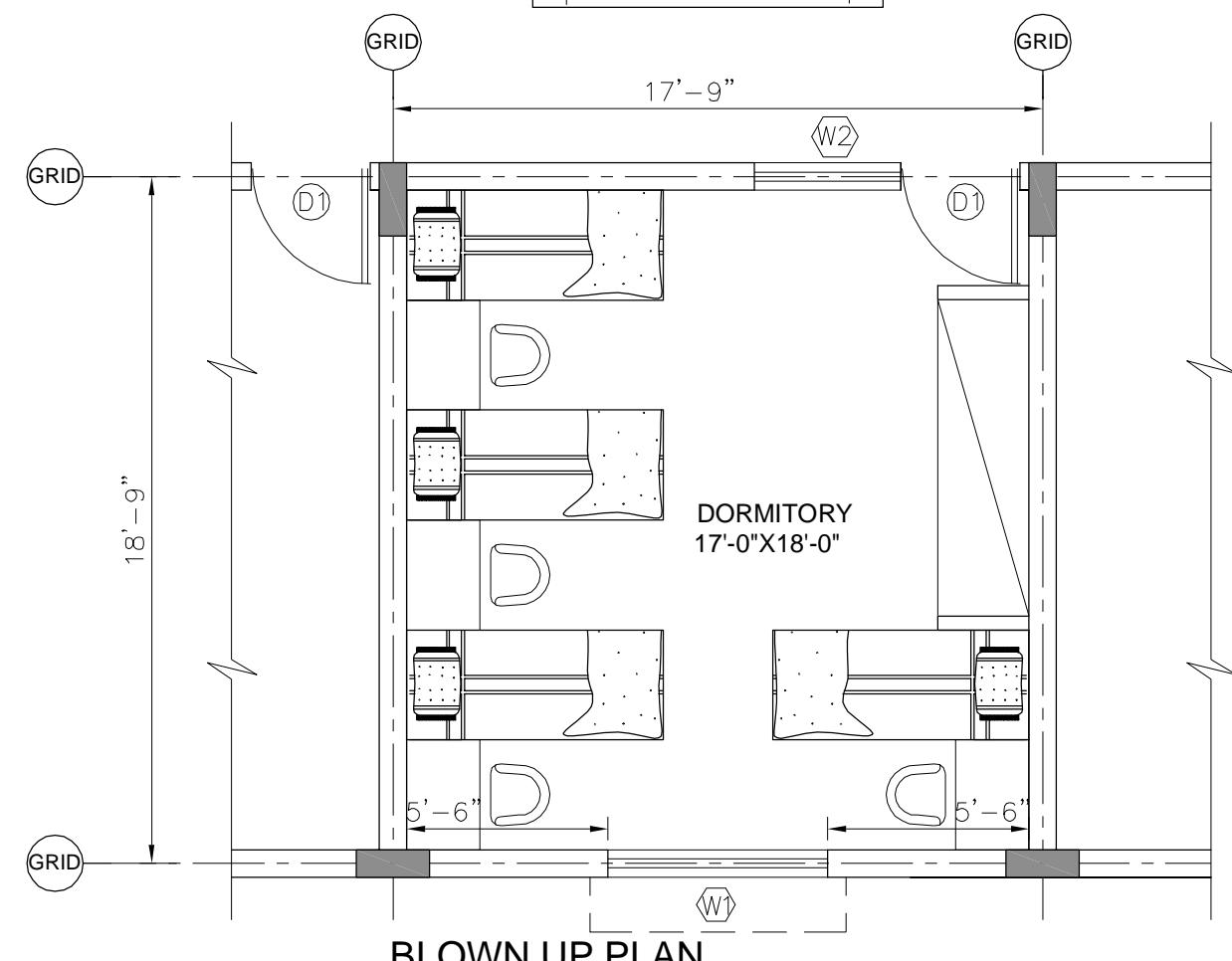
DRAWN BY: AAMIR CHECKED BY: MUNEER

SCALE: N.T.S. DATE : 22-11-2025

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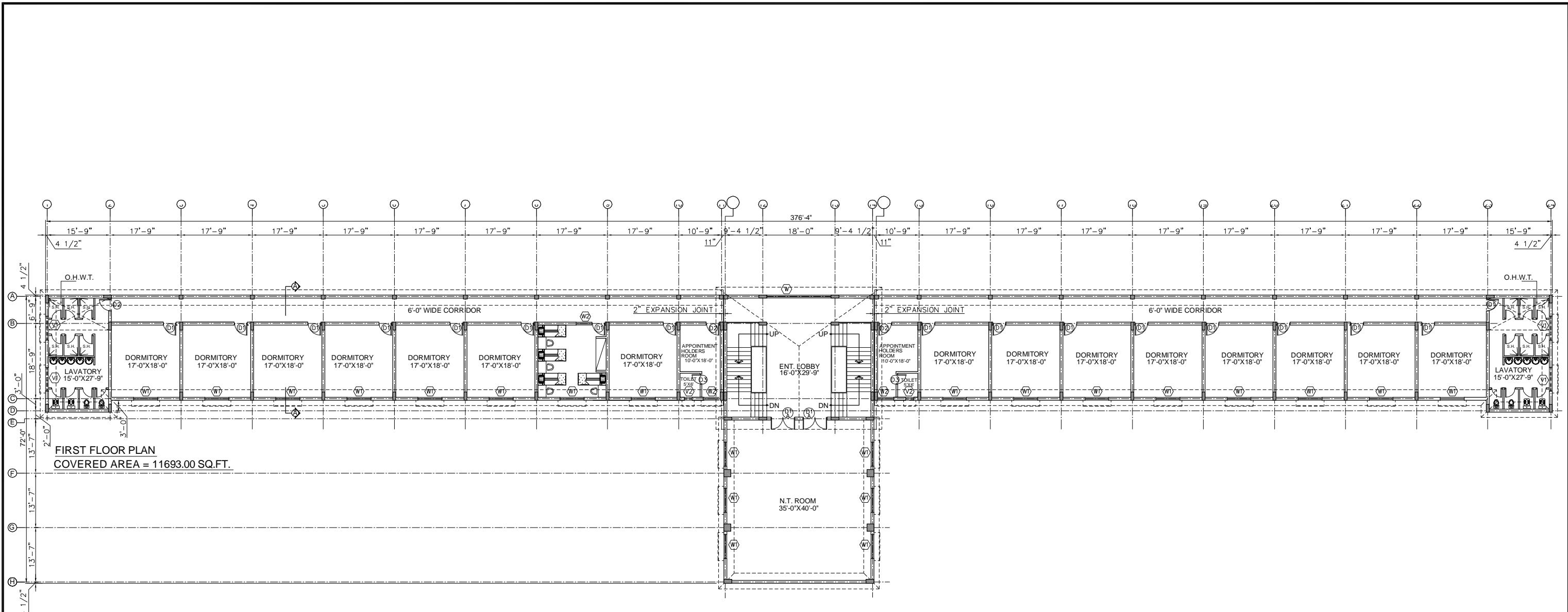


SCHEDULE OF DOORS, WINDOWS & VENTILATORS		
S.NO.	DOORS	SIZE
	WIDTH	HEIGHT
FGD1	16'-0"	7'-0"
D1A	6'-0"	7'-0"
D1	3'-3"	7'-0"
D2	3'-0"	7'-0"
D2	2'-6"	7'-0"
WINDOWS		
	WIDTH	HEIGHT
W	16'-0"	4'-0"
W1	6'-0"	4'-0"
W2	4'-0"	4'-0"
VENTILATORS		
	WIDTH	HEIGHT
V1	6'-0"	2'-0"
V2	2'-0"	2'-0"



3rd Revision :	-----	Date :	-----
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1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING		
CLIENT:	CADET COLLEGE SANGAR		
JOB TITLE:	CONSTRUCTION OF LAL SHAHZ QALANDAR BOYS HOSTEL		
JOB NO.:	303/10		
DRG. NO.:	303/10 AR-102		
DRAWN BY:	AAMIR		
CHECKED BY:	MUNEER		
SCALE : 1"-25'-0"	DATE : 22-11-2025		

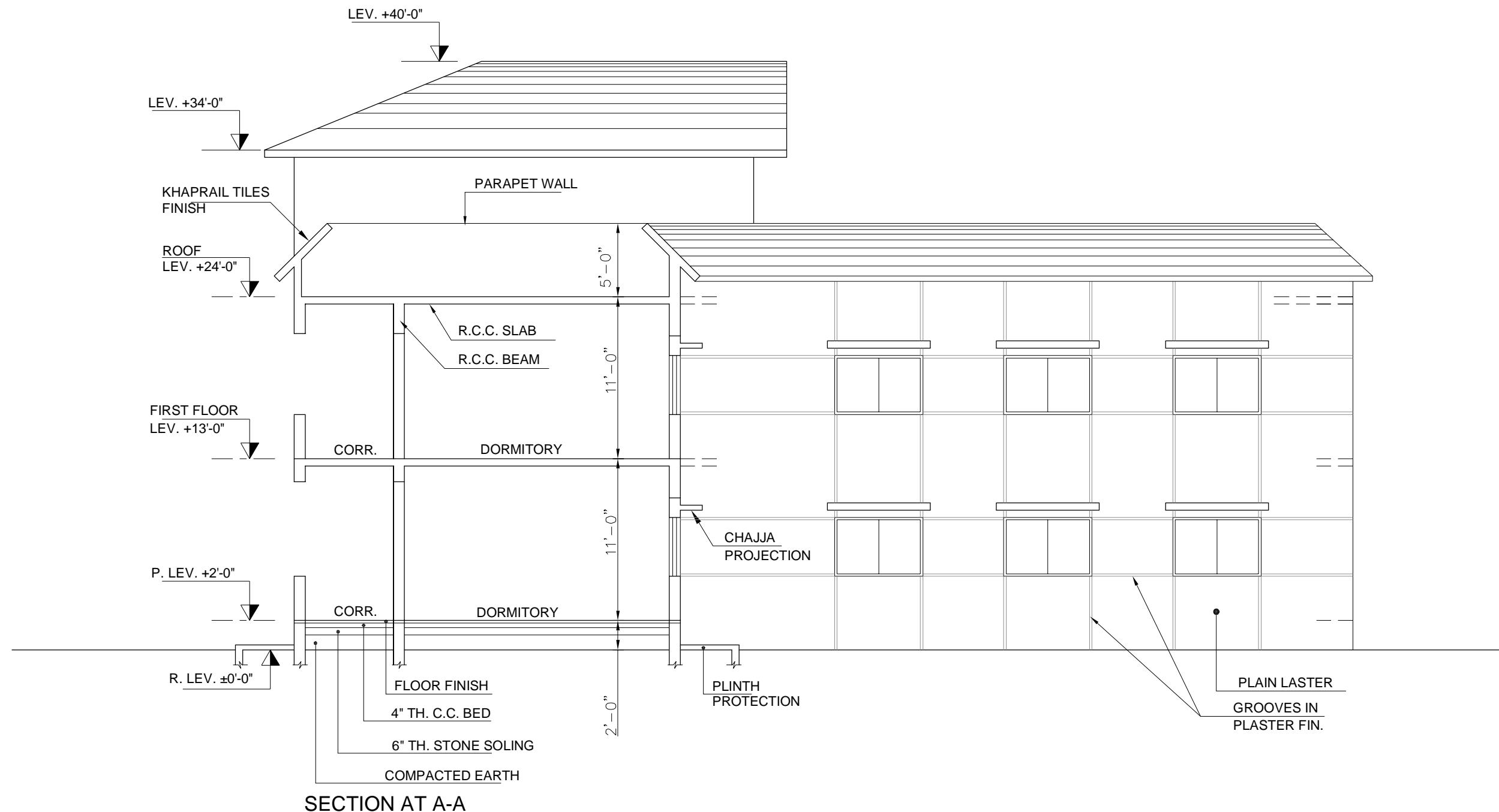
 YOUNG ASSOCIATES
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Defence Housing Authority, Karachi-75500
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SCHEDULE OF DOORS, WINDOWS & VENTILATORS		
S.NO.	DOORS	
	SIZE	
	WIDTH	HEIGHT
FGD1	16'-0"	7'-0"
D1A	6'-0"	7'-0"
D1	3'-3"	7'-0"
D2	3'-0"	7'-0"
D2	2'-6"	7'-0"
WINDOWS		
	WIDTH	HEIGHT
W	16'-0"	4'-0"
W1	6'-0"	4'-0"
W2	4'-0"	4'-0"
VENTILATORS		
	WIDTH	HEIGHT
V1	6'-0"	2'-0"
V2	2'-0"	2'-0"

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2nd Revision :	-----	Date :	-----
1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING		
CLIENT:	CADET COLLEGE SANGAR		
JOB TITLE:	CONSTRUCTION OF LAL SHAHBZ QALANDAR BOYS HOSTEL		
JOB NO.:	303/10		
DRG. NO.:	303/10 AR-103		
DRAWN BY:	AAMIR		
CHECKED BY:	MUNEER		
SCALE :	1"-25'-0"		
	DATE : 22-11-2025		

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1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING Date : 09-12-2025		
CLIENT:	CADET COLLEGE SANGAR		
JOB TITLE:	CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL		
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		DESCRIPTION: SECTION AT A-A	
		JOB NO.:	303/10
		DRG. NO.:	303/10 AR-104
		DRAWN BY:	AAMIR MUNEER
		SCALE :	1/8"=1'-0" DATE : 22-11-2025



CADET COLLEGE SANGHAR

CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

STRUCTURAL DRAWINGS

TENDER DRAWINGS

PREPARED BY:



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LIST OF STRUCTURAL DRAWINGS

S.NO.	DWG. NO.	DESCRIPTION
1	303/10 AR-00	LIST OF DRAWINGS
2	303/10 GN-01	GENERAL NOTES
3	303/10 ST-01	FOUNDATION LAYOUT PLAN
4	303/10 ST-02	COLUMN LAYOUT PLAN
5	303/10 ST-03	PLINTH BEAM PLAN @LEV.+1'-9"
6	303/10 ST-04	FIRST FLOOR FRAMING PLAN @ LEV.+12'-9"
7	303/10 ST-05	ROOF FRAMING PLAN @ LEV.+23'-9"

3rd Revision :	-----	Date :	-----
2nd Revision :	-----	Date :	-----
1st Revision :	-----	Date :	-----
ISSUED FOR		TENDER DRAWING	
		Date : 09-12-2025	
CLIENT: CADET COLLEGE SANGAR		DESCRIPTION: LIST OF STRUCTURAL DRAWINGS	
JOB TITLE: CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL			
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		JOB NO : 303/10 DRG. NO. : 303/10 ST-00 DRAWN BY : AAMIR CHECKED BY : MUNEER SCALE : 1"-25'-0" DATE : 22-11-2025	

GENERAL NOTES

1. REINFORCED CONCRETE DESIGN IS BASED ON BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318-02)
2. FOUNDATION DESIGN IS BASED UPON A SAFE SOIL BEARING CAPACITY OF 0.50 T/SQ.FT. AT 6'-6" BELOW EXISTING GROUND FLOOR LEVEL.
3. COORDINATE STRUCTURAL DRAWING'S WITH ARCHITECTURAL DRAWINGS IN CASE OF DISCREPANCY REFER TO ENGINEER IN CHARGE
4. ALL DIMENSIONS ARE IN FEET/INCHES.
5. DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSIONS OR REFER TO CONSULTANT
6. THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND LEVELS BEFORE EXECUTION
7. ALL ERRORS AND OMISSIONS TO BE REFERRED TO THE CONSULTANT / ENGINEER PRIOR TO EXECUTION OF WORK
8. PRIOR TO CASTING CONCRETE REFER TO ARCHITECTURAL, PLUMBING , ELECTRICAL AND HVAC DRAWINGS FOR EMBEDDED ITEMS.
9. ALL MATERIALS SHALL CONFIRM TO THE SPECIFICATIONS SHOWN ON THE DRAWINGS IN ABSENCE OF ANY SPECIFICATION ALL MATERIALS SHOULD CONFIRM TO RELEVANT ACI STANDARDS AND SHALL SUBJECT TO APPROVAL OF THE CONSULTANT.
10. CONCRETE CUBES SHALL BE AVAILALB AT SITE AND SAMPLE FROM RANDOM BATCHES WILL BE TAKEN DURING CONCRETING TEST CUBES MOULDS
11. SLUMP CONE SHALL BE MADE AVAILBLE AT SITE BY THE CONTRACTOR AND RANDOM SAMPLES WILL BE CHECKED DURING CONCRETING.
12. THE WATER USED FOR CONCRETE MIXING AND CURING SHOULD BE OF POTABLE QUALITY AND WITHOUT ANY IMPURITIES. A SAMPLE SHOULD BE TESTED IN LABORATORY FOR SULPHATE AND CHLORIDE CONTENTS.
13. FINE AND COARSE AGGREGATES SHOULD BE FREE FROM CLAY, LOAMS OR ANY OTHER ORGANIC IMPURITIES. A TEST SHOULD BE CARRIED OUT BEFORE USE.
14. ATMOSPHERIC TEMPERATURE SHOULD BE BETWEEN 32 C TO 5 C, AT THE TIME OF CONCRETE POURING.
15. R.C.C.CONCRETE (STANDARD CYLINDRICAL) STRENGTHS (fc IN PSI) AT 28 DAYS FOR VARIOUS STRUCTURAL MEMBERS SHALL BE.

FOUNDATION/ BEAMS/ SLAB (fc' = 3000 psi)
COLUMNS (fc' = 4000 psi)
LEAN CONCRETE (fc' = 1500 psi)

16. ALL R.C.C.WORKS SHALL BE CONTINUOUSLY MOIST CURED FOR AT LEAST 14 DAYS OR CURED BY CURING COMPOUND.

17. FORM WORK SUPPORTING R.C.C. MEMBERS SHALL BE REMOVED ATLEAST AFTER 14 DAYS.

18. ALL R.C.C.WORKS SHALL BE INTERNALLY VIBRATED WITH ELECTRO MECHANICAL VIBRATOR.

19. MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS.

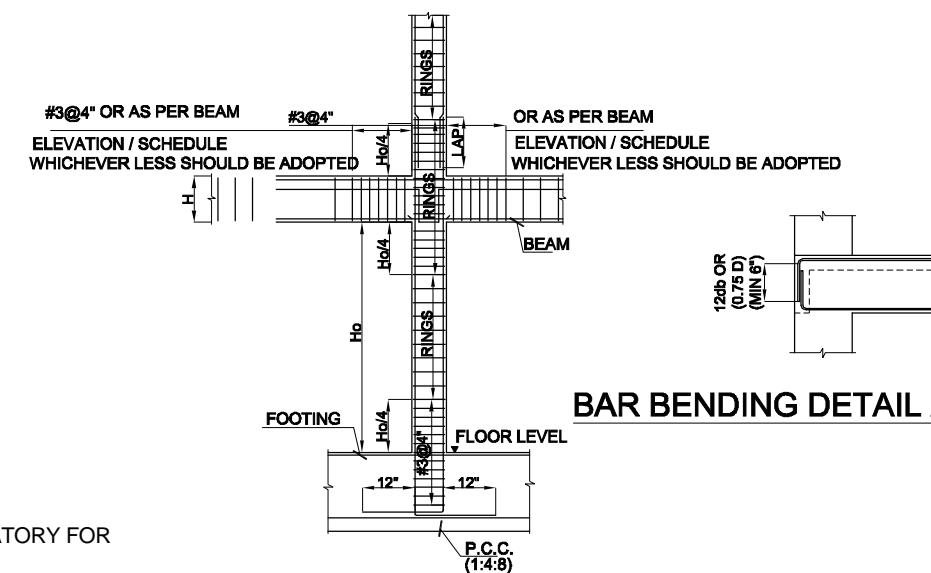
FOUNDATION.....	3"
BEAMS	1 1/2"
COLUMNS/WALLS	1 1/2" / 1"
SLAB.....	3/4"
WATER RETAINING STRUCTURES	2"

20. BEAMS AND SLABS SHOULD BE CASTED MONOLITHIC.

21. PRIOR TO PLACING CONCRETE ALL REINFORCING SHALL BE FREE OF LOOSE RUST AND SCALE OR ANY FOREIGN MATERIALS.

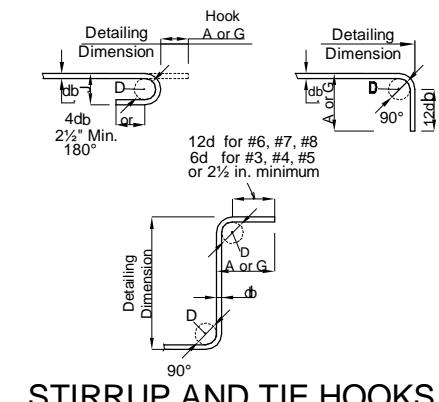
22. SPLICE LENGTH SHALL BE 60 TIMES DIA OF BAR

23. ALL INTERNAL & EXTERNAL PLASTER ON R.C.C. MEMBERS TO BE OF RATIO 1:4 AND THICKNESS SHOULD NOT EXCEED 3/4".U.O.N.



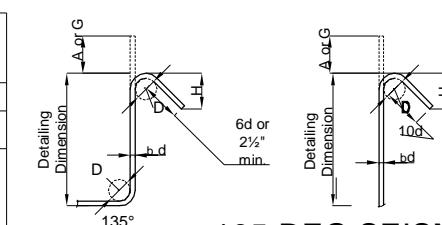
SEISMIC BEAM/COLUMN JOINT DETAIL

Bar Size	Finished bend diameter D,in.	RECOMENDED END HOOKS, ALL GRADES	
		180-deg hooks A or G, in. J, in.	90-deg hooks A or G, in.
#3	2 1/4	5	3
#4	3	6	4
#5	3 3/4	7	5
#6	4 1/2	8	6
#7	5 1/4	10	7
#8	6	11	8
#9	9 1/2	15	11 3/4
#10	10 3/4	17	13 1/4
#11	12	19	14 3/4
#14	18 1/4	27	21 3/4
#18	24	36	28 1/2



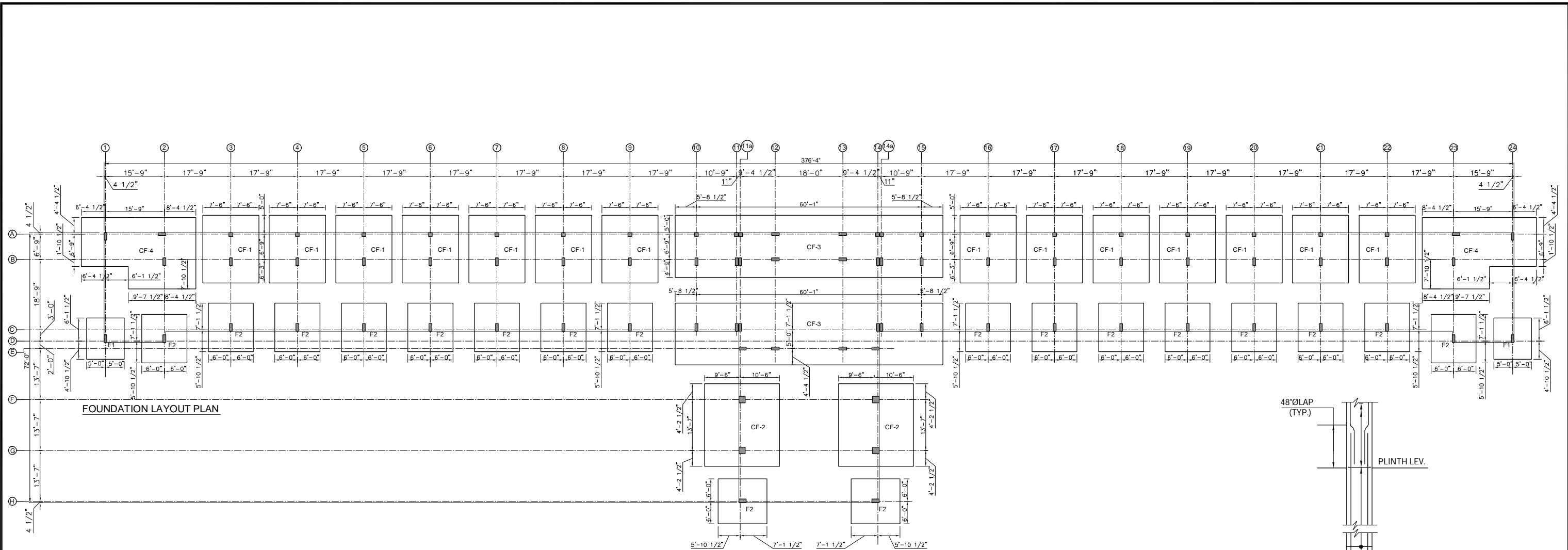
STIRRUP AND TIE HOOKS

Bar Size	D (in.)	135 deg Stirrup-tie hook dimensions, in.	
		135-deg hooks A or G, in.	H approx
#3	1 1/2	5	3 1/2
#4	2	6 1/2	4 1/2
#6	4 1/2	10 3/4	6 1/2



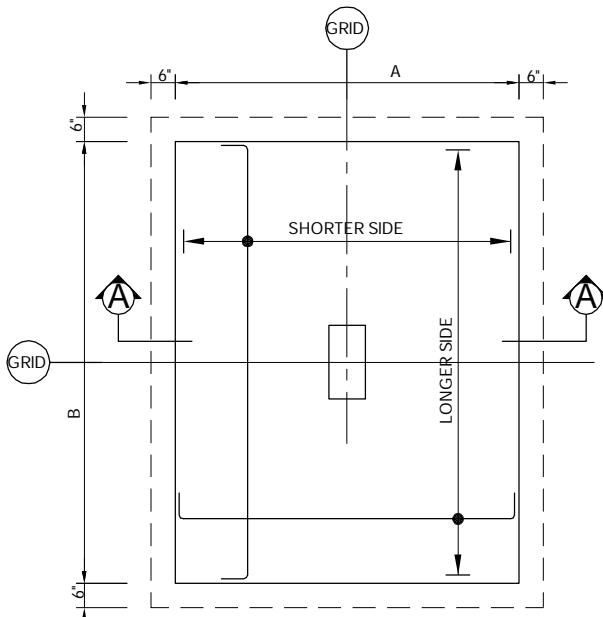
**135-DEG SEISMIC
STIRRUP/TIE HOOKS**

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1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING Date : 09-12-2025		
CLIENT:	GENERAL NOTES		
JOB TITLE:	CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL		
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		DESCRIPTION: JOB NO : 303/10 DRG. NO. : 303/10 GN-01 DRAWN BY : AAMIR CHECKED BY : MUNEEB SCALE : 1"-25'-0" DATE : 22-11-2025	



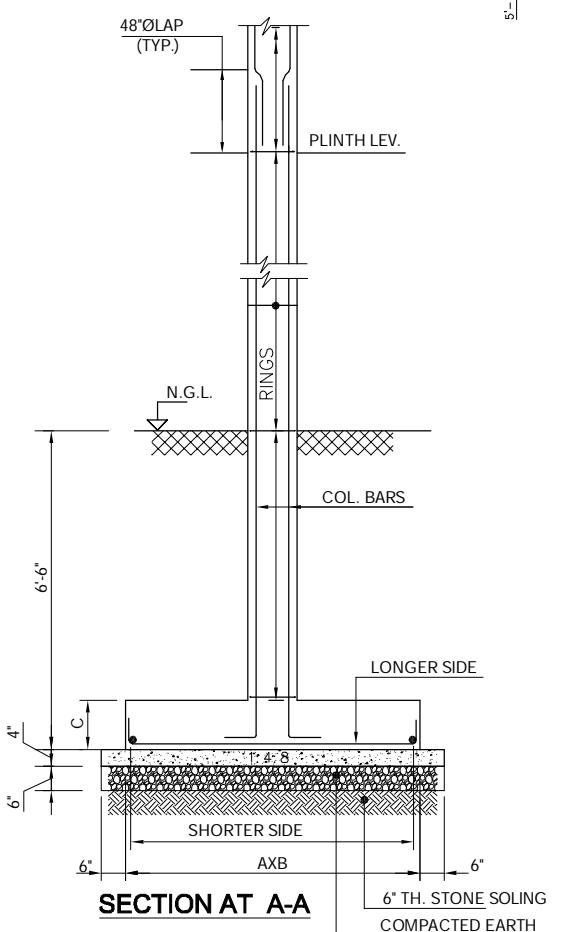
SCHEDULE OF FOOTINGS

FOOTING	EXCAVATION SIZE	SIZE			BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
		A	B	C	LONGER SIDE	SHORTER SIDE	T1	T2
F1	11'-0"X12'-0"	10'-0"	11'-0"	18"				
F2	13'-0"X14'-0"	12'-0"	13'-0"	18"				
CF-1	16'-0"X19'-0"	15'-0"	18'-0"	24"				
CF-2	21'-0"X23'-0"	20'-0"	22'-0"	24"				
CF-3	72'-6"X17'-6"	71'-6"	16'-6"	27"				
CF-4	S E E P L A N		24"					



TYPICAL PLAN OF ISOLATED FOOTING

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



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2nd Revision :	Date :
1st Revision :	Date :
ISSUED FOR	TENDER DRAWING Date : 09-12-2025		
CLIENT:	CADET COLLEGE SANGAR	DESCRIPTION:	FOUNDATION LAYOUT PLAN
JOB TITLE:	CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL		
JOB NO.:	303/10		
DRG. NO.:	303/10 ST-01		
DRAWN BY:	AAMIR	CHECKED BY:	MUNEEB
SCALE:	1"-25'-0"	DATE:	22-11-2025

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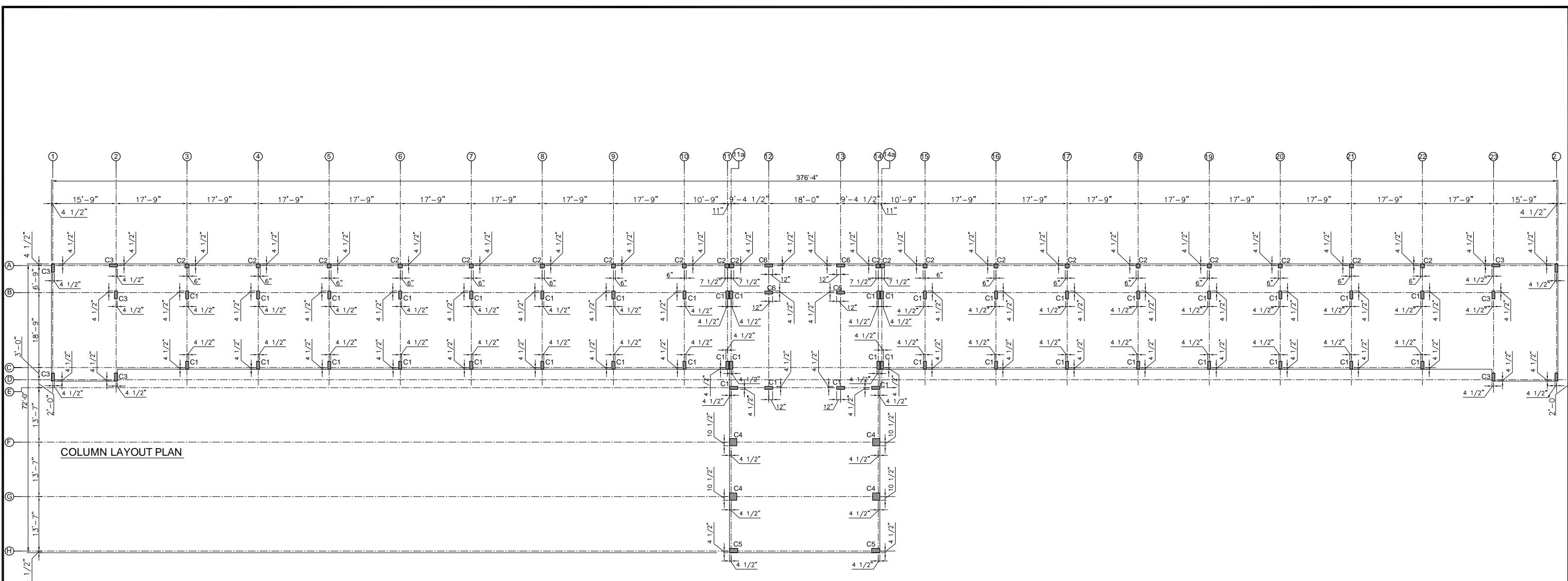


Diagram of Column C1 showing a 10-5/8" diameter column with a 3/8" bolt spacing. The column is 24" wide and 5" high.

Diagram of Column C2 showing a 12" x 12" square column with a 12" x 12" square reinforcement cage. The cage has 8 bars of 3/8" diameter spaced 1/2" apart. The column is labeled "8-1/2" Ø" at the top.

Diagram of Column C3 showing a 7-bay frame with a height of 9' and a width of 24'. The columns are labeled C1 through C7. The top horizontal beam is labeled 14-3/4" Ø. The bottom horizontal beam is labeled 3/8" Ø @ 4" / 8" / 4" C/C. The vertical columns are labeled C1, C2, C3, C4, C5, C6, and C7.

Diagram showing the reinforcement layout for a concrete column. The column has a height of 21" and a width of 21". It features 16 longitudinal bars of 1/2" diameter and 8 stirrups of 3/8" diameter. The stirrups are spaced at 4" on center horizontally and 8" on center vertically, with a 4" cover thickness on all sides.

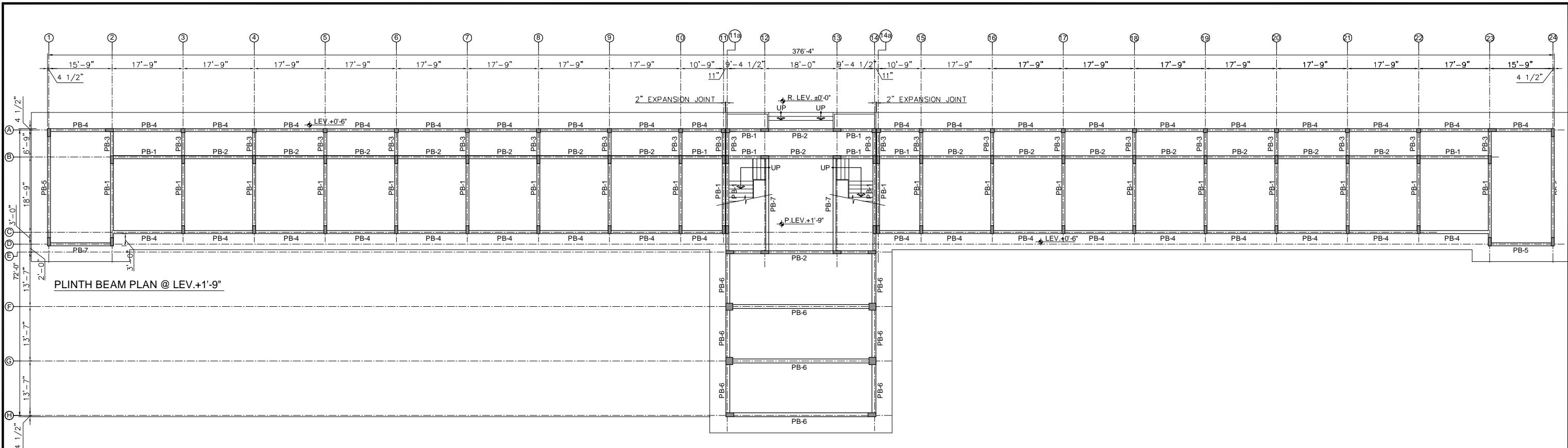
Diagram of Column C5 showing a 12" x 24" rectangular column section. The longitudinal bars are 14-3/4" $\bar{\phi}$ and the transverse bars are 3/8" $\bar{\phi}$ @ 4" / 8" / 4" C/C.

Diagram of a rectangular column section with 6 longitudinal bars and 6 transverse stirrups. The width is 18", the height is 5", and the stirrups are $3/8'' \bar{\phi}$ @ 4" / 8" / 4" C/C.

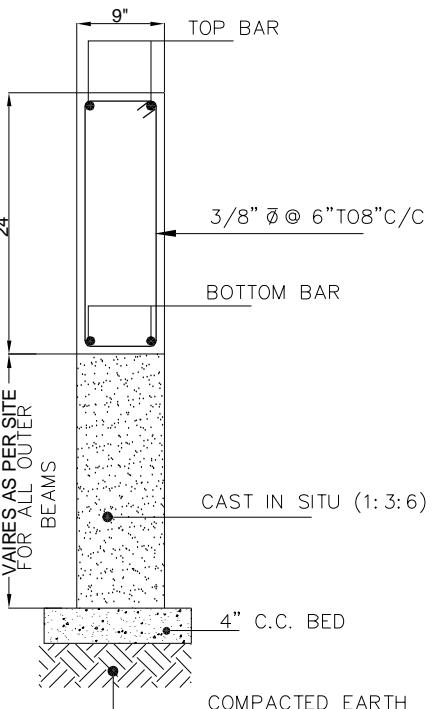
COLUMN BC-1

COLUMN C4

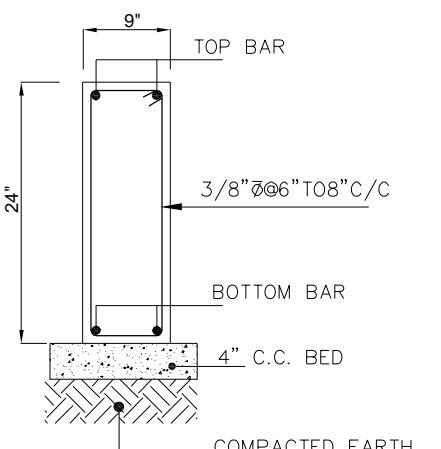
3rd Revision :	-----	Date :	-----
2nd Revision :	-----	Date :	-----
1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING		Date : 09-12-2025
CLIENT:	CADET COLLEGE SANGAR	DESCRIPTION : COLUMN LAYOUT PLAN	
JOB TITLE :	CONSTRUCTION OF LAL SHAHBZ QALANDAR BOYS HOSTEL		
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24 th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		JOB NO.:	303/10
		DRG. NO.:	303/10 ST-02
		DRAWN BY:	CHECKED BY: AAMIR
		SCALE :	DATE : 22-11-2025



PLINTH BEAM PLAN @ LEV.+1'-9"



(TYP. SEC. OF EXTERNAL PLINTH BEAM)



TYP SEC OF INTERNAL PI INT H BEAM)

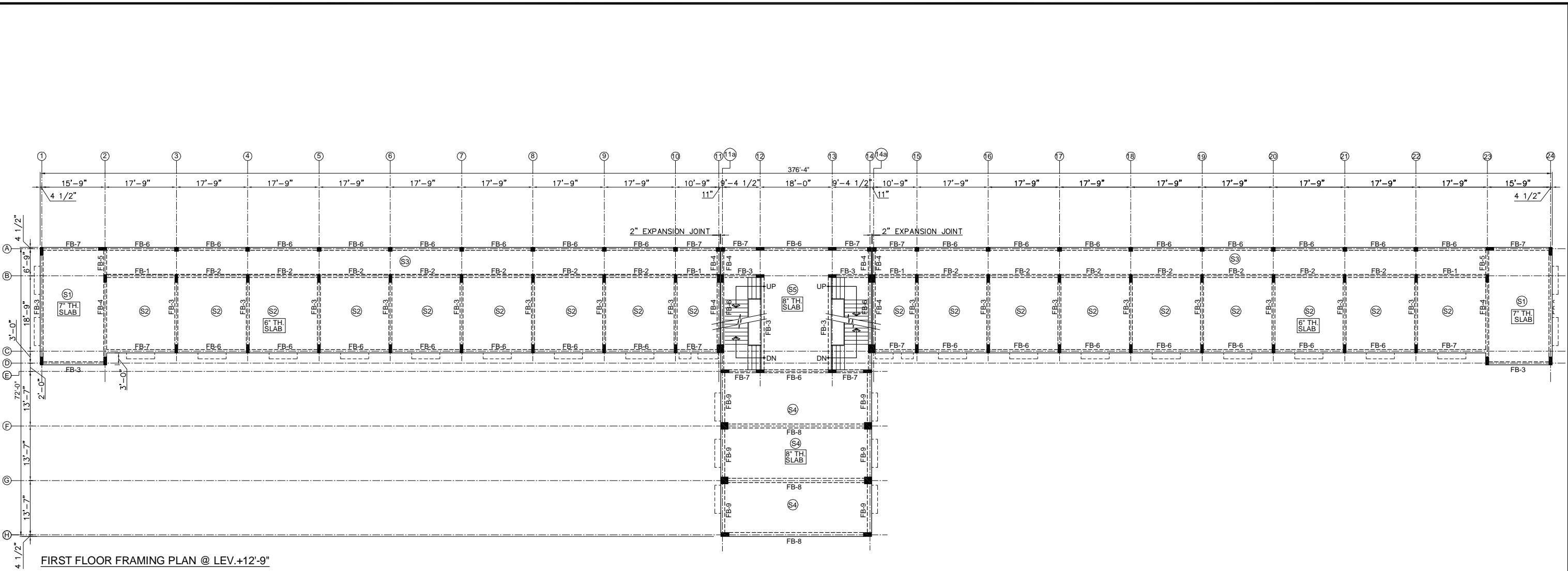
SCALE: $3/4" = 1' - 0"$

SCHEDULE OF PLINTH BEAMS

BEAMS NO.S	BEAMS SIZE B X H	TOP BARS CONT.	BOTT. STEEL CONT.	EXTRA ON CONT. SUPPORT		RINGS @ L/4	RINGS @ CENTRE
				L-SUPP.	R-SUPP.		
PB-1	9"X24"						
PB-2	9"X24"						
PB-3	9"X18"						
PB-4	9"X24"						
PB-5	9"X24"						
PB-6	12"X24"						
PB-7	9"X18"						

NOTES:

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1st Revision :	-----	Date :	-----
ISSUED FOR	TENDER DRAWING		Date : 09-12-2025
CLIENT:	CADET COLLEGE SANGAR	DESCRIPTION:	
JOB TITLE :	CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL	PLINTH BEAM PLAN @ LEV.+1'-9"	
 YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24 th Commercial street, Phase 2 (Extn), Defence Housing Authority, Karachi-75500 Tel: 021-35396444, 021-35312244 FAX: 021-35883106 E-mail: info@youngassociates.com.pk		JOB NO :	303/10
		DRG. NO. :	303/10 ST-03
		DRAWN BY :	CHECKED BY :
		AAMIR	MUNEER
		SCALE :	DATE : 22-11-2025



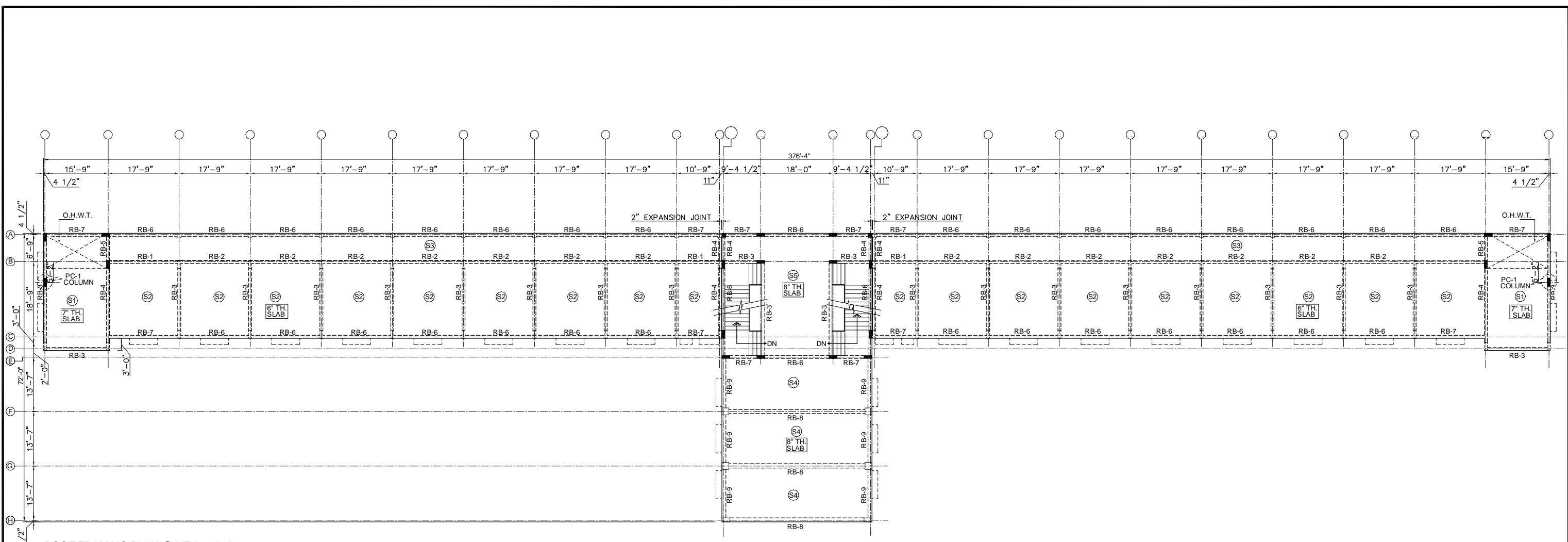
SCHEDULE OF FIRST FLOOR BEAMS

BEAMS NO.S	BEAMS SIZE B X H	TOP BARS CONT.	BOTT. STEEL CONT.	EXTRA ON CONT. SUPPORT		EXTRA BOTTOM	RINGS @ L/4	RINGS @ CENTER
				L-SUPP.	R-SUPP.			
FB-1	9"X24"							
FB-2	9"X24"							
FB-3	9"X24"							
FB-4	9"X24"							
FB-5	9"X24"							
FB-6	9"X24"							
FB-7	9"X24"							
FB-8	12"X24"							
FB-9	12"X24"							

NOTES:
1. FOR GENERAL NOTES, REFER DWG. NO. GN-01

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CLIENT:	CADET COLLEGE SANGAR		
JOB TITLE:	CONSTRUCTION OF LAL SHAHEZ QALANDAR BOYS HOSTEL		
DESCRIPTION:	FIRST FLOOR FRAMING PLAN @ LEV.+12'-9"		
JOB NO.:	303/10		
DRG. NO.:	303/10 ST-04		
DRAWN BY:	AAMIR		
checked by:	MUNEER		
SCALE: 1"=25'-0"	DATE: 22-11-2025		

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ROOF FRAMING PLAN @ LEV.+23'-9"

SCHEDULE OF ROOF BEAMS

BEAMS NO.S	BEAMS SIZE B X H	TOP BARS CONT.	BOTT. STEEL CONT.	EXTRA ON CONT. SUPPORT		EXTRA BOTTOM	RINGS @ L/4	RINGS @ CENTER
				L-SUPP.	R-SUPP.			
RB-1	9"X24"							
RB-2	9"X24"							
RB-3	9"X24"							
RB-4	9"X24"							
RB-5	9"X24"							
RB-6	9"X24"							
RB-7	9"X24"							
RB-8	12"X24"							
RB-9	12"X24"							

NOTES:
1. FOR GENERAL NOTES, REFER DWG. NO. GN-01

3rd Revision :	Date :
2nd Revision:	Date:
1st Revision :	Date :
ISSUED FOR	TENDER DRAWING		Date : 09-12-2025
CLIENT:	CADET COLLEGE SANGAR	DESCRIPTION:	
JOB TITLE:	CONSTRUCTION OF LAL SHAHEZ QALANDAR BOYS HOSTEL		ROOF FRAMING PLAN @LEV.+23'-9"
JOB NO.:	303/10	DRG. NO.:	303/10 ST-05
DRAWN BY:	AAMIR	CHECKED BY:	MUNEER
FAX: 021-35396444, 021-35312244	E-mail: info@youngassociates.com.pk	SCALE: 1"=25'-0"	DATE: 22-11-2025

YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
9-C 24th Commercial street, Phase 2 (Ext),
Defence Housing Authority, Karachi-75500
Tel: 021-35396444, 021-35312244
FAX: 021-35883106
E-mail: info@youngassociates.com.pk



CADET COLLEGE SANGHAR

CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL

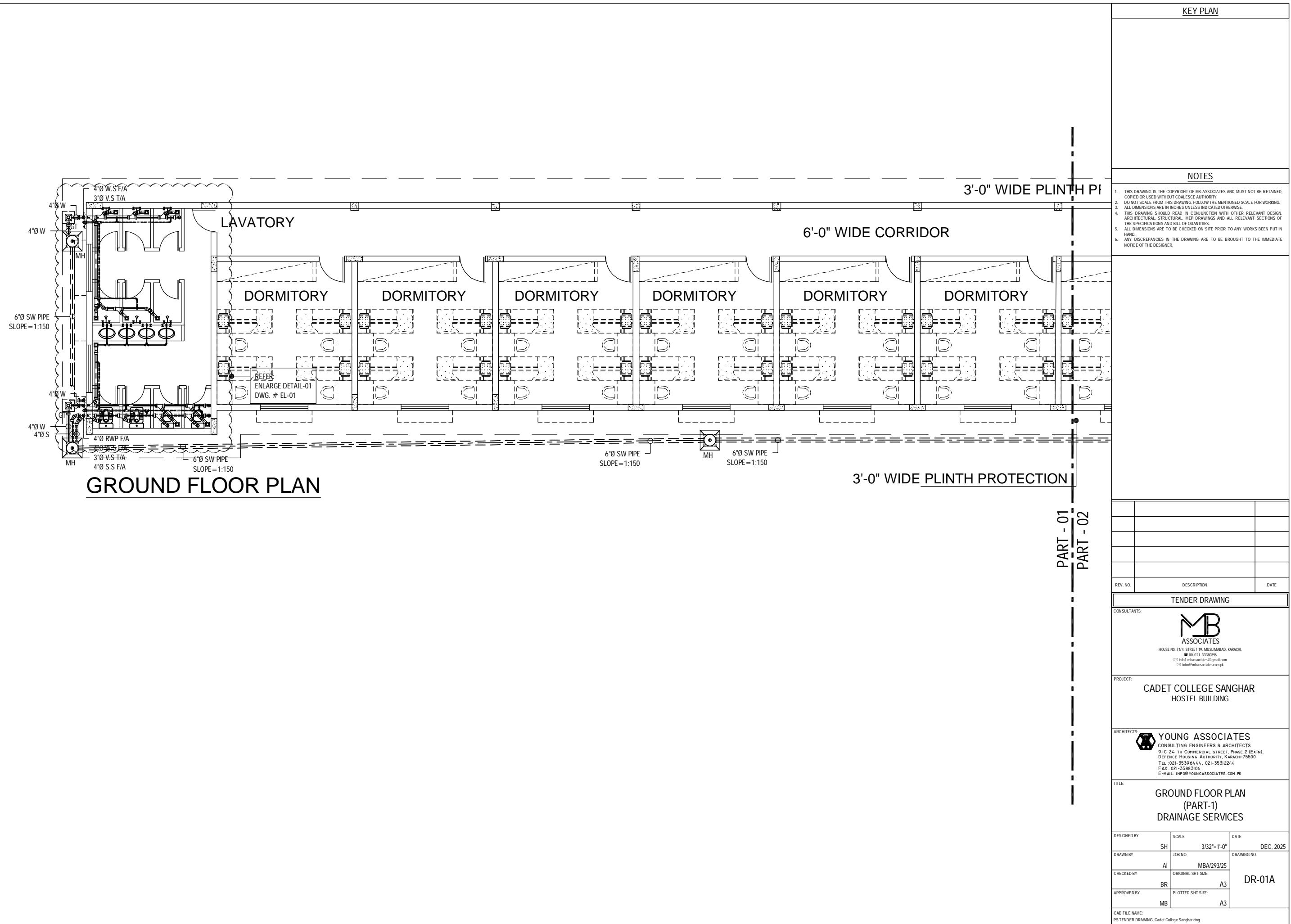
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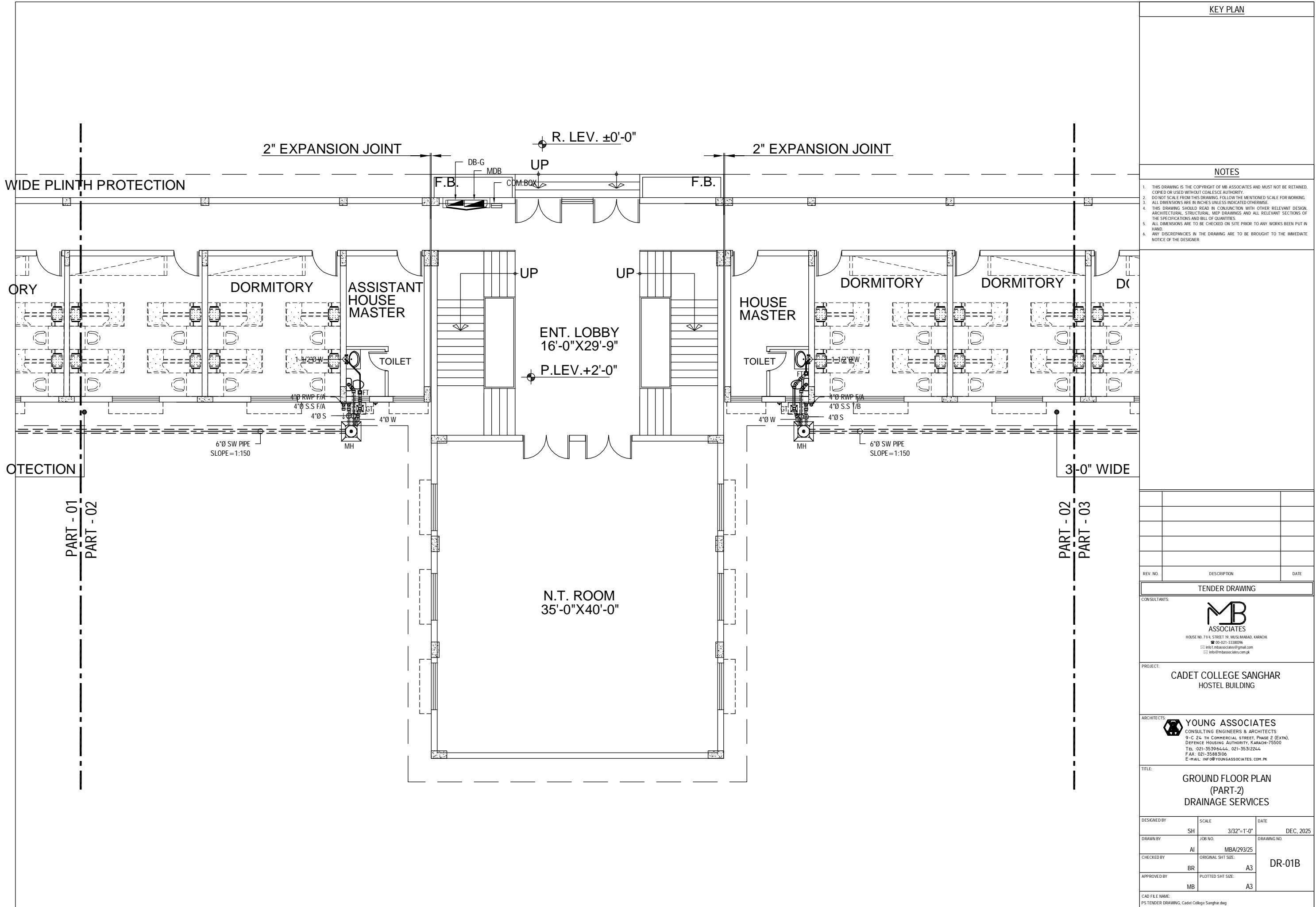
TENDER DRAWINGS

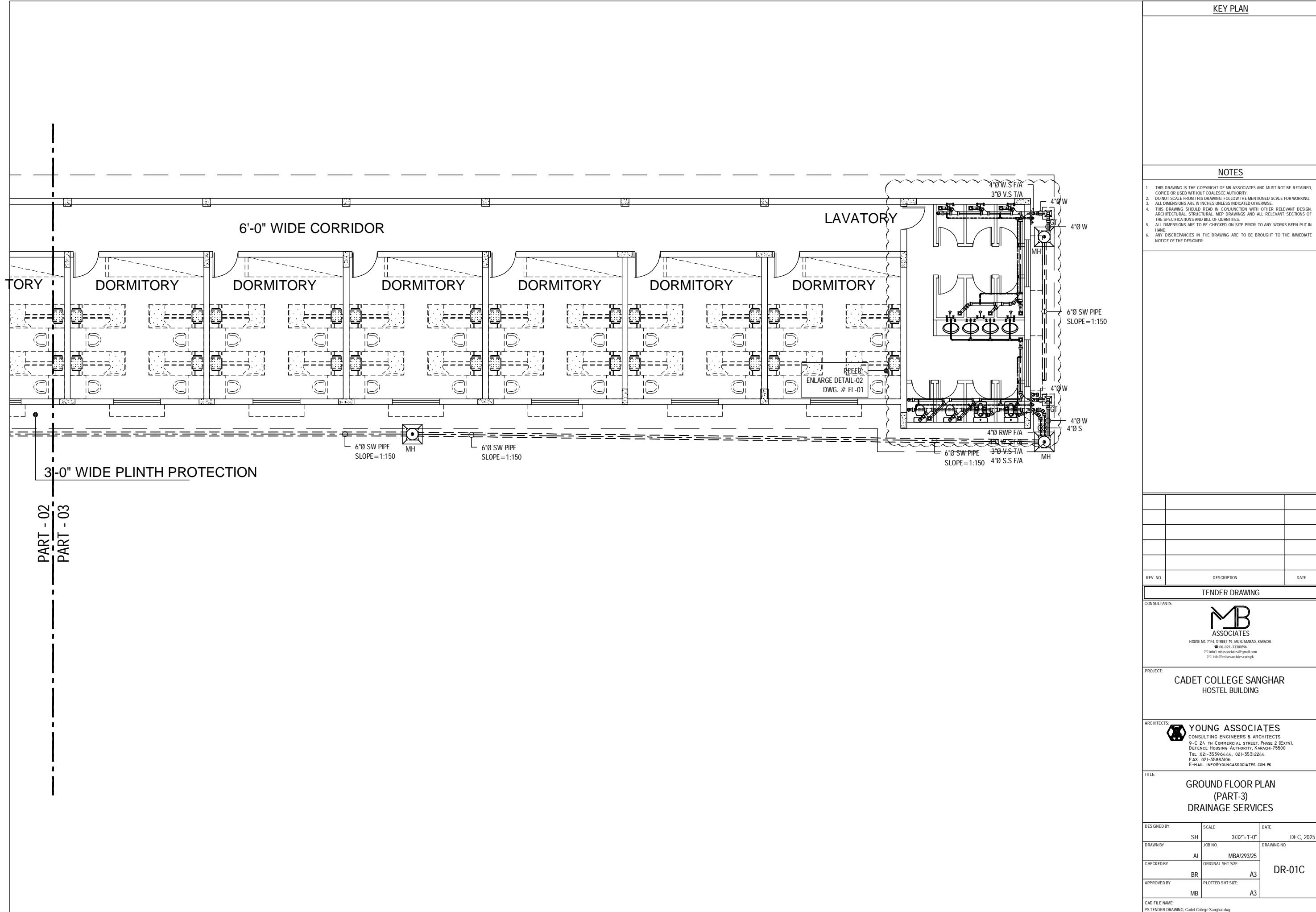
PREPARED BY:

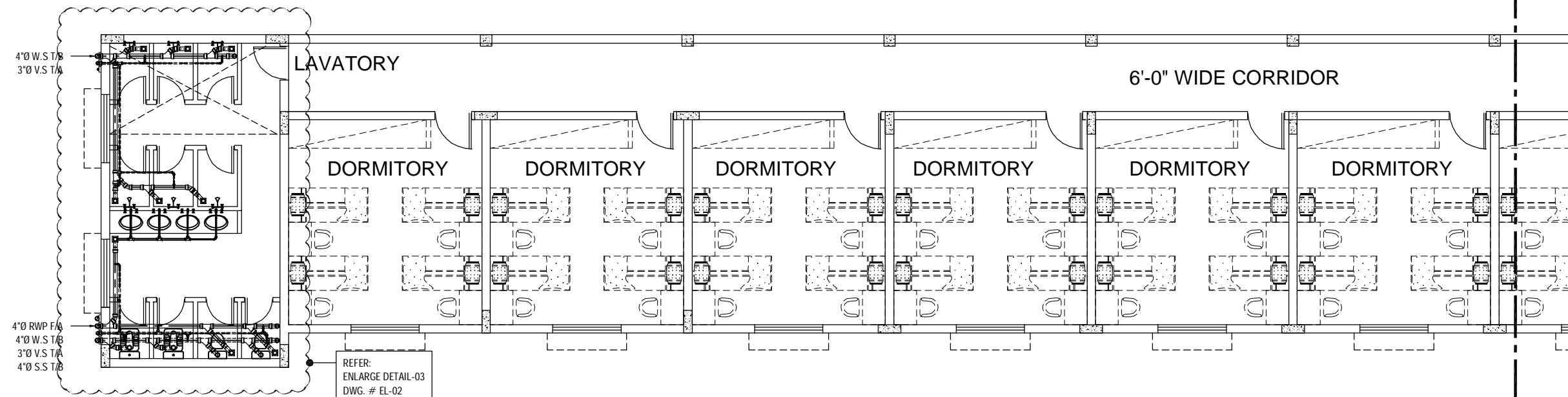


YOUNG ASSOCIATES
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Authority, Karachi-75500
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FIRST FLOOR PLAN

KEY PLAN

NOTES

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PART - 01
PART - 02

REV. NO. DESCRIPTION DATE
TENDER DRAWING
CONSULTANTS:
MB ASSOCIATES
HOUSE NO. 7/14 BLOCK 79 MARGA MARGABAD, KARACHI.
TEL: 021-35395144, 021-35312244
FAX: 021-35385144
E-MAIL: info@mbassociates.com.pk

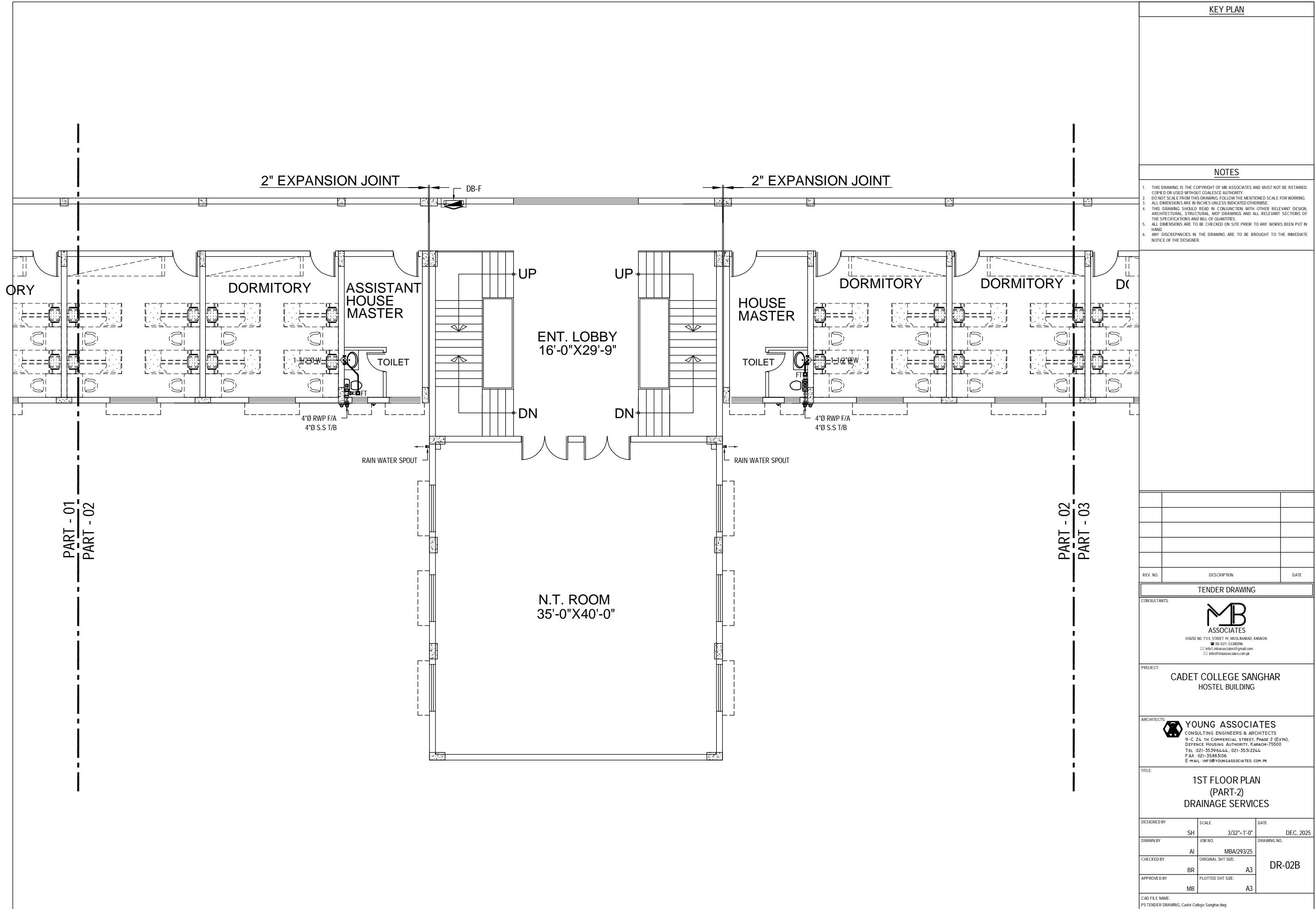
PROJECT:
**CADET COLLEGE SANGHAR
HOSTEL BUILDING**

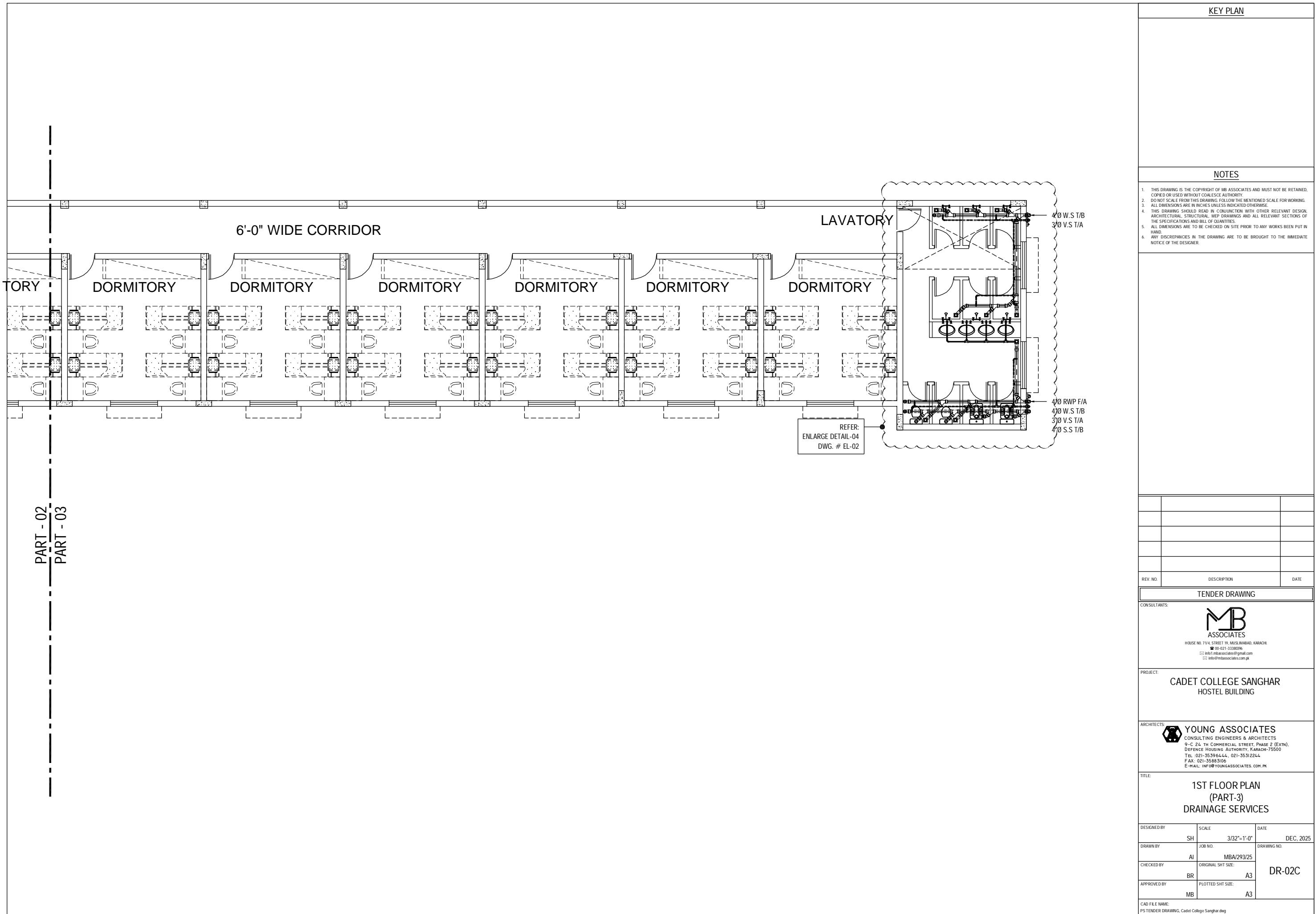
ARCHITECTS:
YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN),
DEFENCE BUILDING AUTHORITY, KARACHI-75500
TEL: 021-35395144, 021-35312244
FAX: 021-35385144
E-MAIL: info@youngassociates.com.pk

TITLE:
**1ST FLOOR PLAN
(PART-1)
DRAINAGE SERVICES**

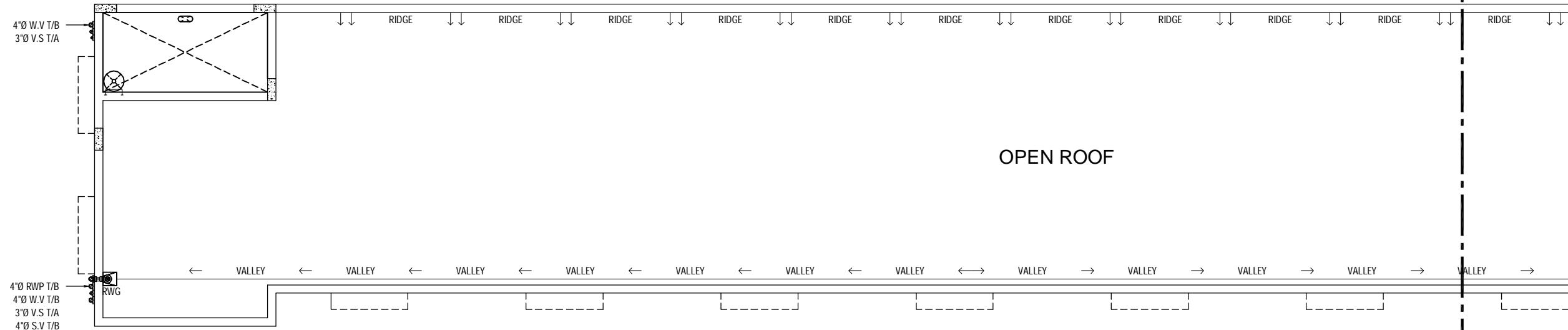
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DRAWN BY	JOB NO.		DRAWING NO.
AI	MBA/293/25		DR-02A
CHECKED BY	ORIGINAL SHT SIZE:		
BR	A3		
APPROVED BY	PLOTTED SHT SIZE:		
MB	A3		

CAD FILE NAME:
PS TENDER DRAWING, Cadet College Sanghar.dwg





ROOF PLAN



OPEN ROOF

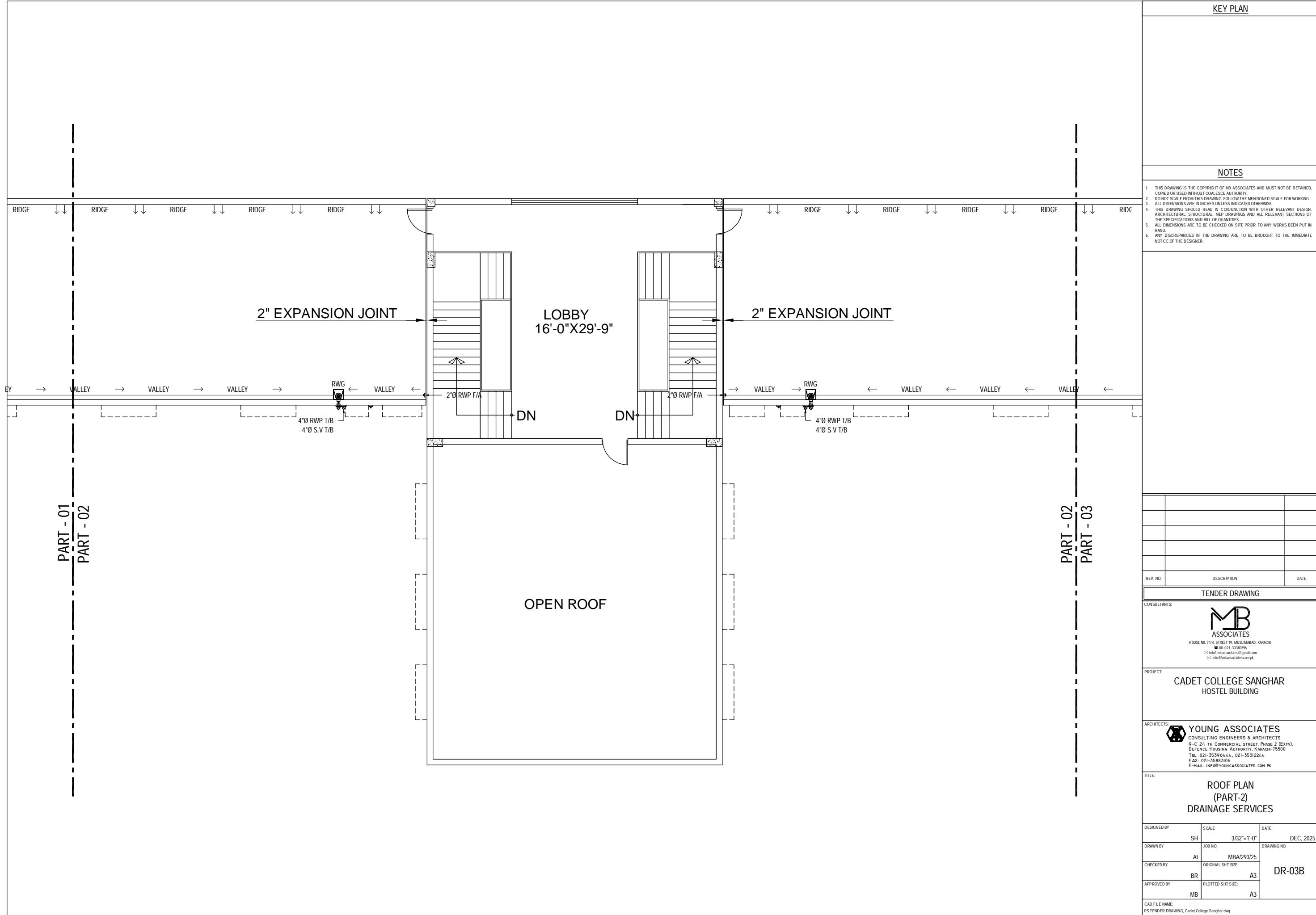
PART - 01
PART - 02

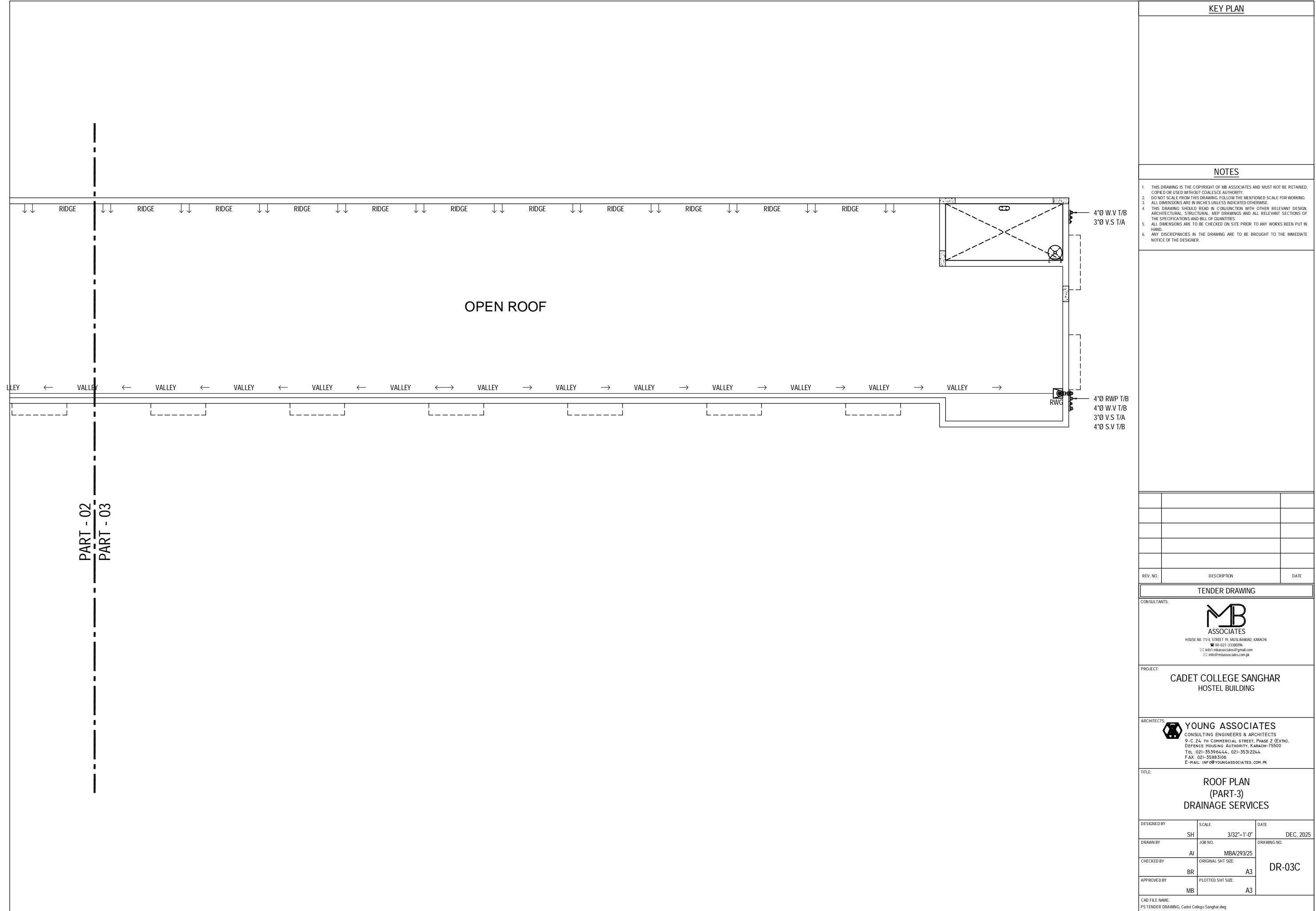
KEY PLAN

NOTES

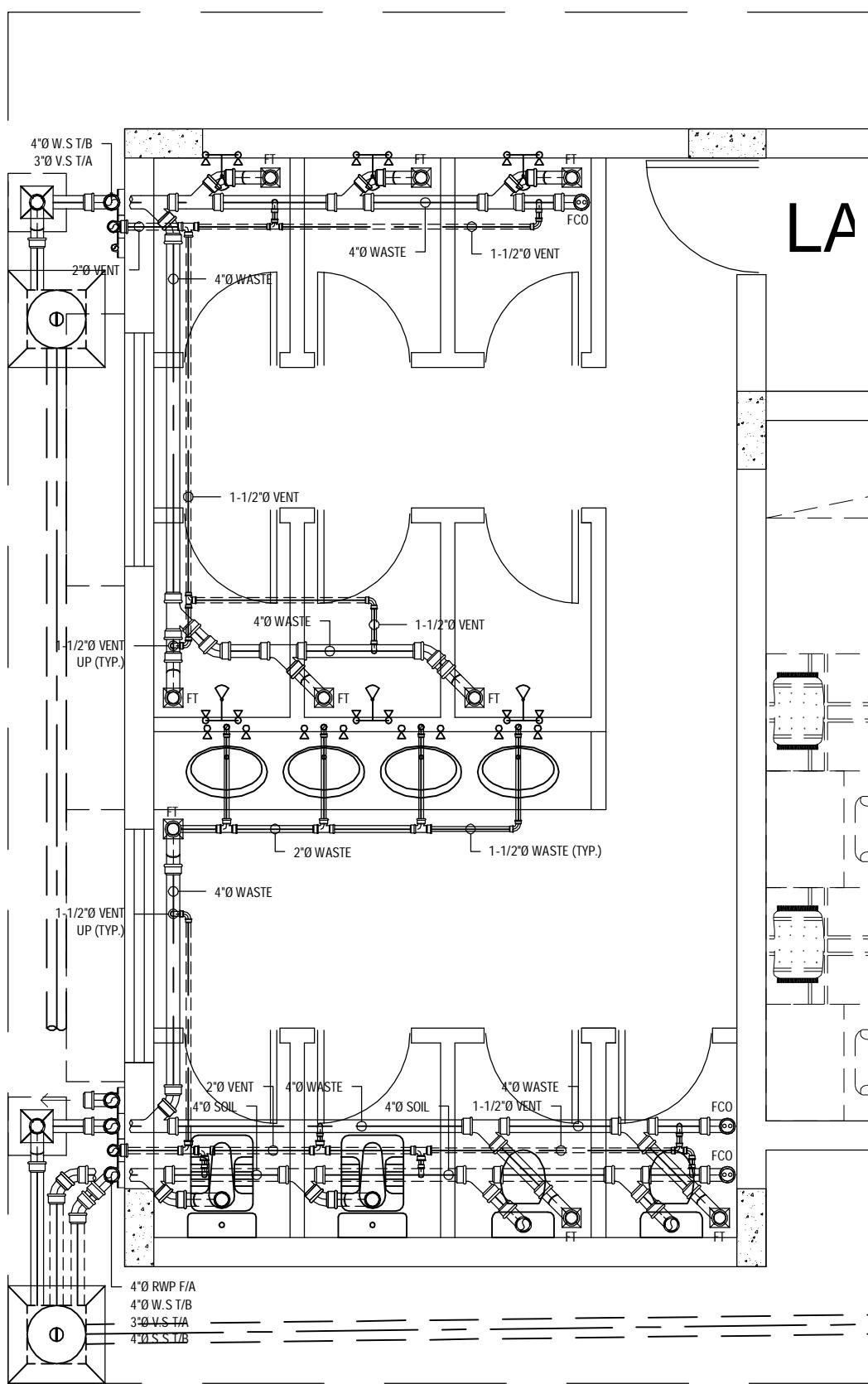
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SPECIFICATIONS AND BILL OF QUANTITIES.
DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO ANY WORKS BEEN PUT IN JU.
DISCREPANCIES IN THE DRAWING ARE TO BE BROUGHT TO THE IMMEDIATE
VICE OF THE DESIGNER.

REV. NO.	DESCRIPTION	DATE
TENDER DRAWING		
CONSULTANTS:		
 <p>HOUSE NO. 7/1, 2ND FLOOR, 100 FEET ROAD, KARACHI. TEL: 02-921-3338956 E-MAIL: info@mbassociates@gmail.com WEB: info@mbassociates.com.pk</p>		
PROJECT: CADET COLLEGE SANGHAR HOSTEL BUILDING		
ARCHITECTS:  <p>YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN), DEFENCE HOUSING AUTHORITY, KARACHI-75500 TEL: 021-35396444, 021-35312244 FAX: 021-35883106 E-MAIL: INFO@YOUNGASSOCIATES.COM.PK</p>		
TITLE: ROOF PLAN (PART-1) DRAINAGE SERVICES		
DESIGNED BY	SCALE	DATE
SH	3/32"=1'-0"	DEC, 2025
DRAWN BY	JOB NO.	DRAWING NO.
AI	MBA/293/25	DR-03A
HECKED BY	ORIGINAL SHT SIZE:	
BR	A3	
PROVED BY	PLOTTED SHT SIZE:	
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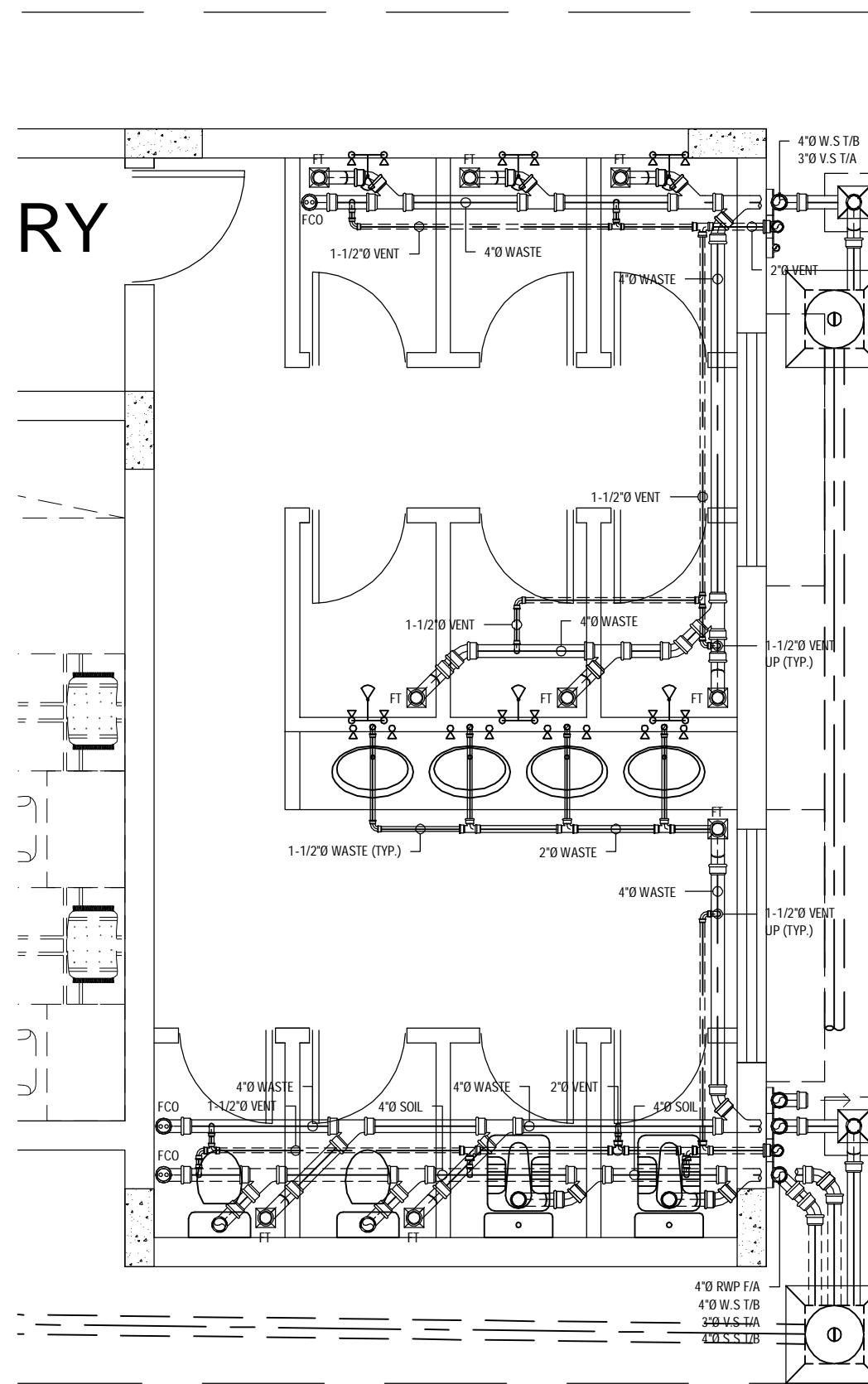




KEY PLAN



ENLARGE DETAIL - 01



ENLARGE DETAIL - 02

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REV. NO. DESCRIPTION DATE

TENDER DRAWING

CONSULTANTS:



HOUSE NO. 714, 7TH FLOOR, 19 MARCH ROAD, KARACHI.

TEL: 02-35398544, 021-35312244

FAX: 021-35885100

E-MAIL: info@mbassociates.com.pk

PROJECT: CADET COLLEGE SANGHAR HOSTEL BUILDING

ARCHITECTS: YOUNG ASSOCIATES

CONSULTING ENGINEERS & ARCHITECTS
9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN).
DEFENCE BUILDING AUTHORITY, KARACHI-75500
TEL: 02-35398544, 021-35312244
FAX: 021-35885100
E-MAIL: info@youngassociates.com.pk

TITLE: GROUND FLOOR PLAN DRAINAGE SERVICES

DESIGNED BY	SCALE	DATE
SH	1/4"=1'-0"	DEC, 2025

DRAWN BY: JOB NO. DRAWING NO.

AI MBA/293/25

CHECKED BY: ORIGINAL SHT SIZE: A3

BR PLOTTED SHT SIZE: A3

APPROVED BY: MB A3

CAD FILE NAME: PS TENDER DRAWING, Cadet College Sanghar.dwg

ED-01

KEY PLAN

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REV. NO.	DESCRIPTION	DATE
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TENDER DRAWING

CONSULTANTS:



HOUSE NO. 714, 7TH FLOOR, 19 MARCH ROAD, KARACHI.
TEL: 02-35398544, 021-35312244
FAX: 021-35585100
E-MAIL: info@massociates.com.pk

PROJECT: CADET COLLEGE SANGHAR HOSTEL BUILDING

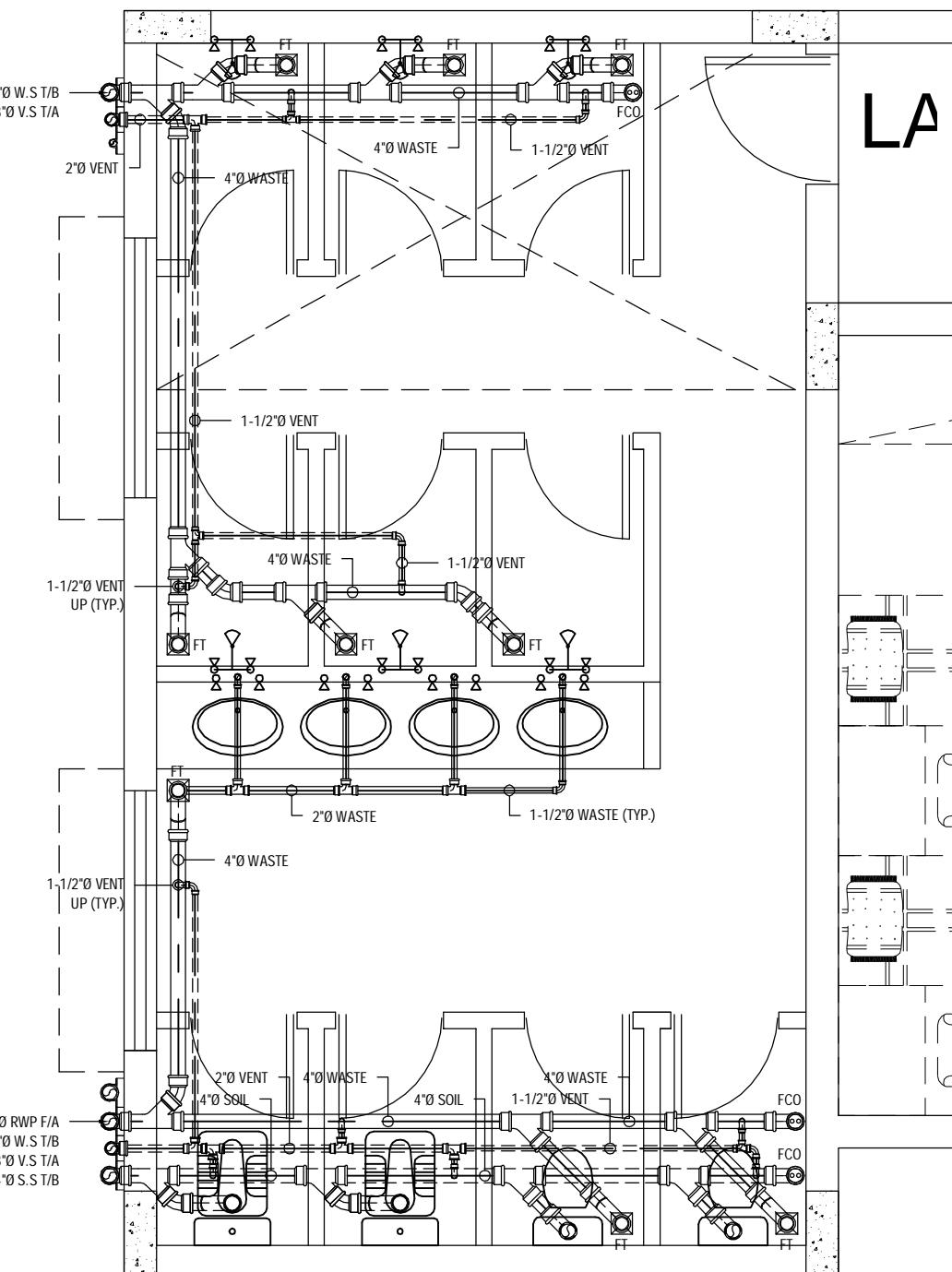
ARCHITECTS: YOUNG ASSOCIATES

CONSULTING ENGINEERS & ARCHITECTS
9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN).
DEFENCE BUILDING AUTHORITY, KARACHI-75500
TEL: 021-35398544, 021-35312244
FAX: 021-35585100
E-MAIL: info@youngassociates.com.pk

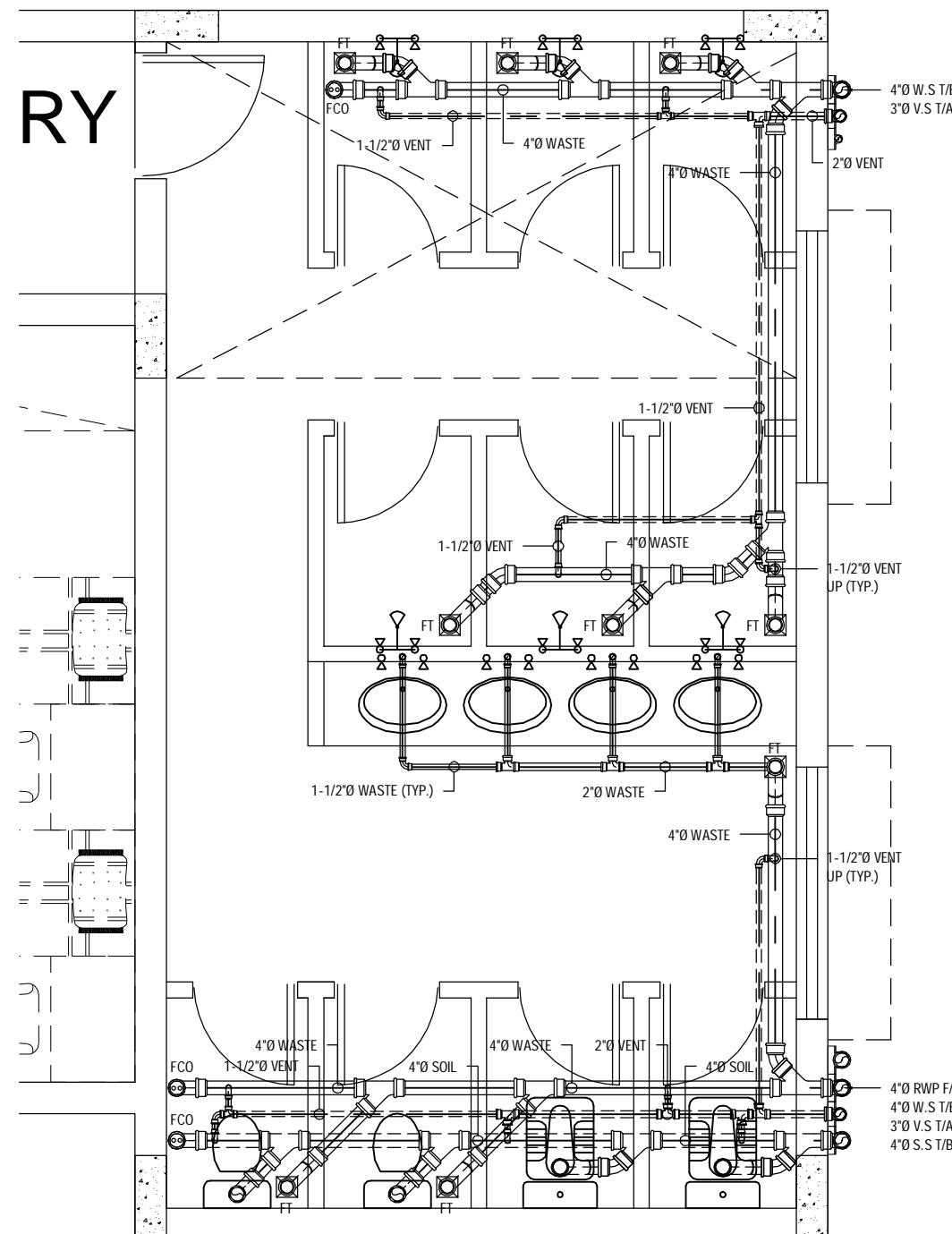
TITLE:

1ST FLOOR PLAN
DRAINAGE SERVICES

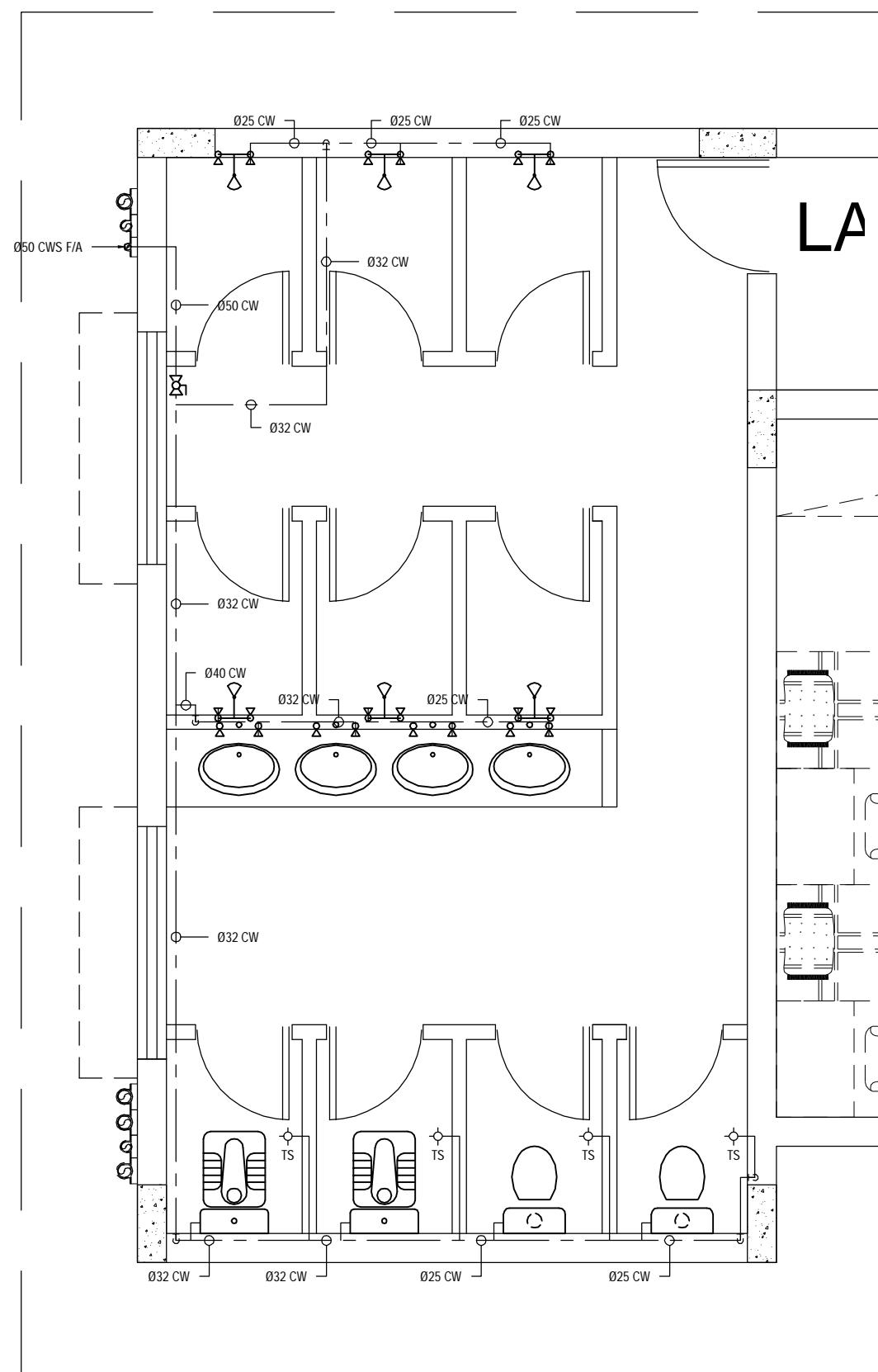
DESIGNED BY	SCALE	DATE
SH	1/4"=1'-0"	DEC, 2025
DRAWN BY	JOB NO.	DRAWING NO.
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CHECKED BY	ORIGINAL SHT SIZE:	
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APPROVED BY	PLOTTED SHT SIZE:	
MB	A3	

CAD FILE NAME:
PS TENDER DRAWING, Cadet College Sanghar.dwg

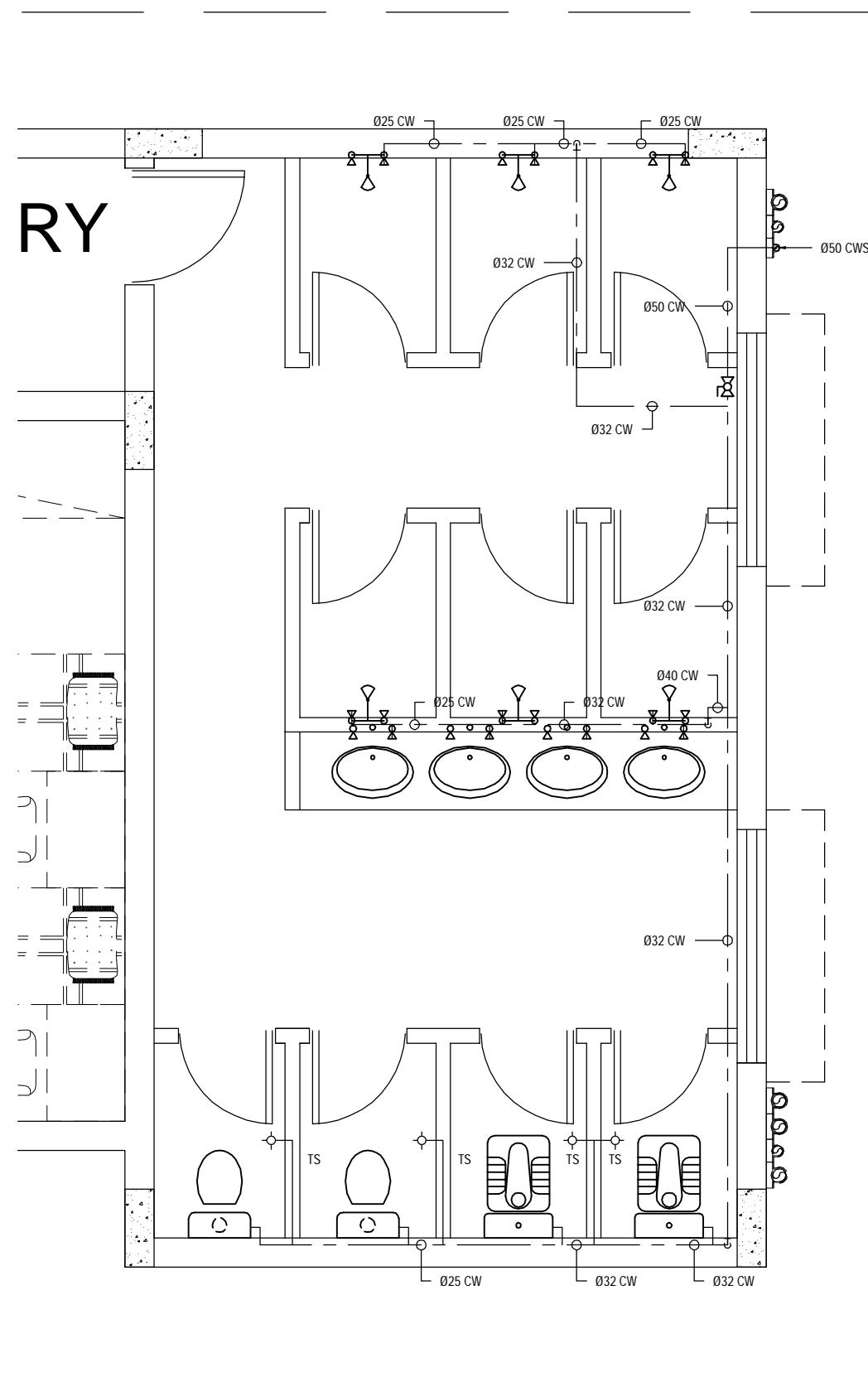
ENLARGE DETAIL - 03



ENLARGE DETAIL - 04



ENLARGE DETAIL - 05



ENLARGE DETAIL - 06

KEY PLAN

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NO.	DESCRIPTION	DATE
TENDER DRAWING		

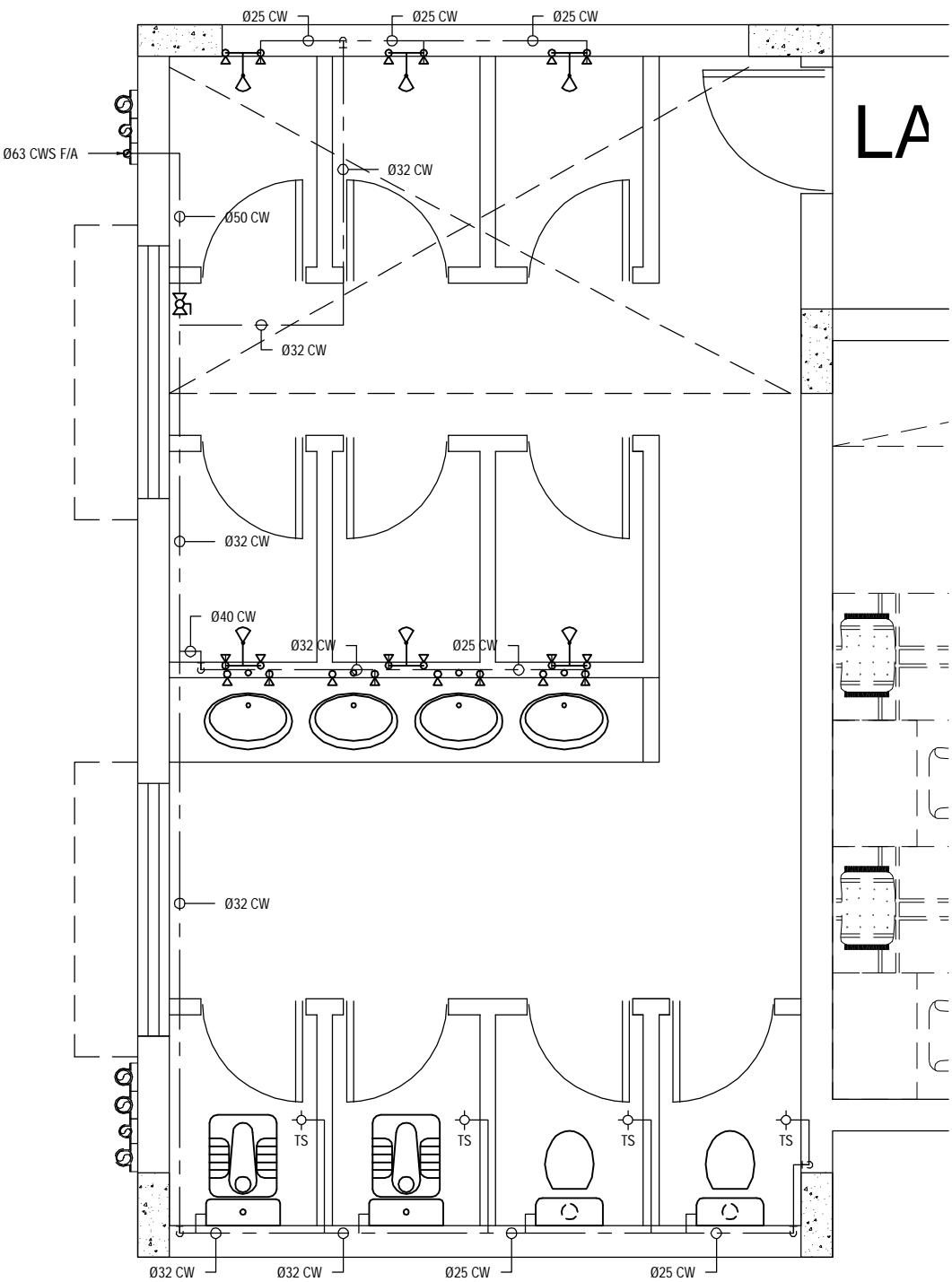
The logo for MB Associates, featuring the letters 'MB' in a stylized, bold font with a horizontal line through the 'B', followed by the word 'ASSOCIATES' in a smaller, sans-serif font.

ECT: CADET COLLEGE SANGHAR
HOSTEL BUILDING

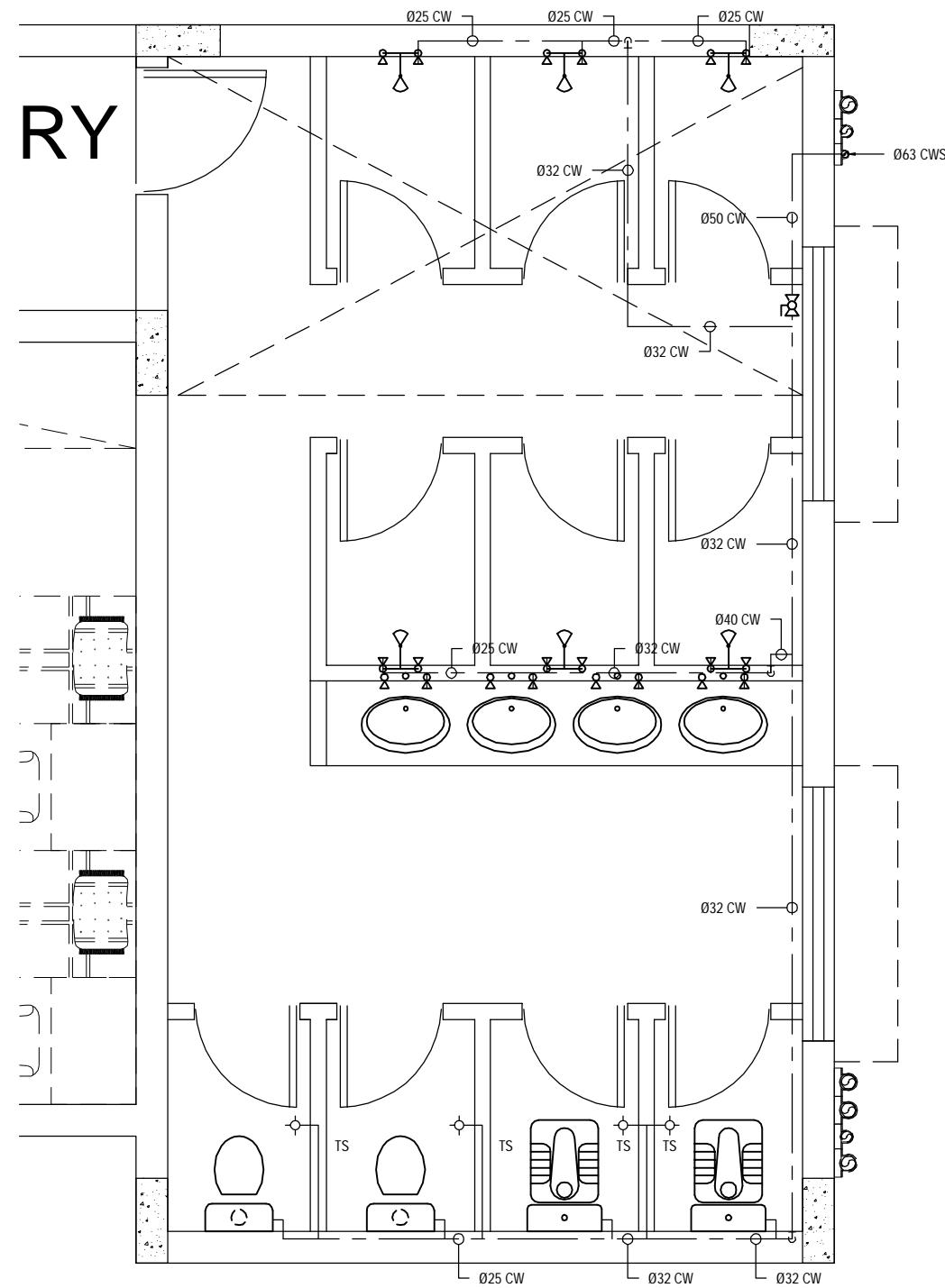
TECTS:
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9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN)
DEFENCE HOUSING AUTHORITY, KARACHI-75500
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FAX: 021-35883106
E-MAIL: INFO@YOUNGASSOCIATES.COM.PK

GROUND FLOOR PLAN WATER SUPPLY SERVICES

GNED BY	SCALE	DATE
SH	3/32"=1'-0"	DEC, 2025
WN BY	JOB NO.	DRAWING NO.
AI	1/4"=1'-0"	ED-03
KKED BY	ORIGINAL SHT SIZE:	
BR	A3	
OVE D BY	PLOTTED SHT SIZE:	
MB	A3	
FILE NAME: DENDER DRAWING, Cadet College Sanghar.dwg		



ENLARGE DETAIL - 07



ENLARGE DETAIL - 08

KEY PLAN

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TENDER DRAWING		
REF. NO.	DESCRIPTION	DATE

TENDER DRAWING

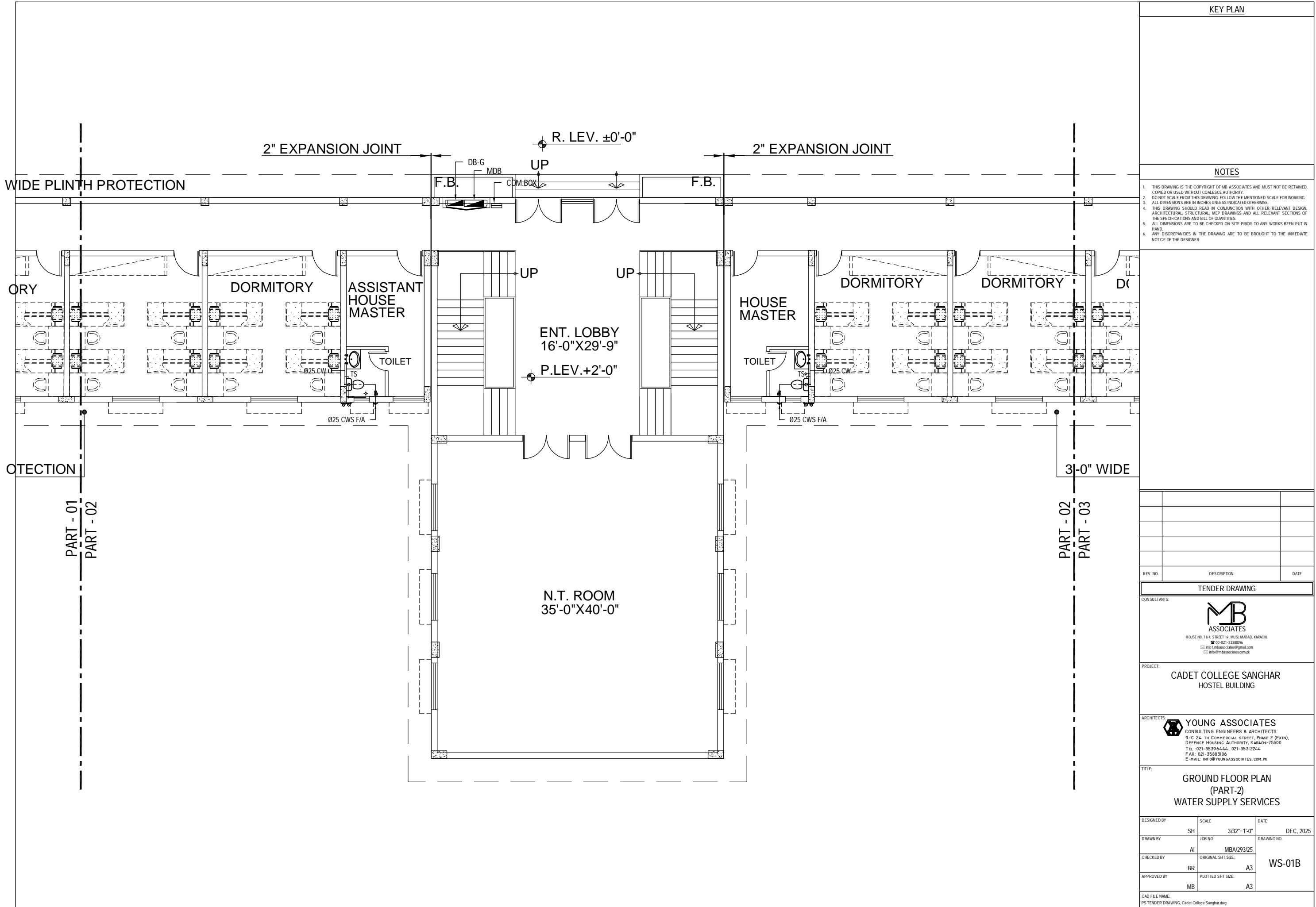
CADET COLLEGE SANGHAR
HOSTEL BUILDING

TECTS:
 YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN)
DEFENCE HOUSING AUTHORITY, KARACHI-75500
TEL: 021-35396444, 021-35312244
FAX: 021-35883106
E-MAIL: INFO@YOUNGASSOCIATES.COM.PK

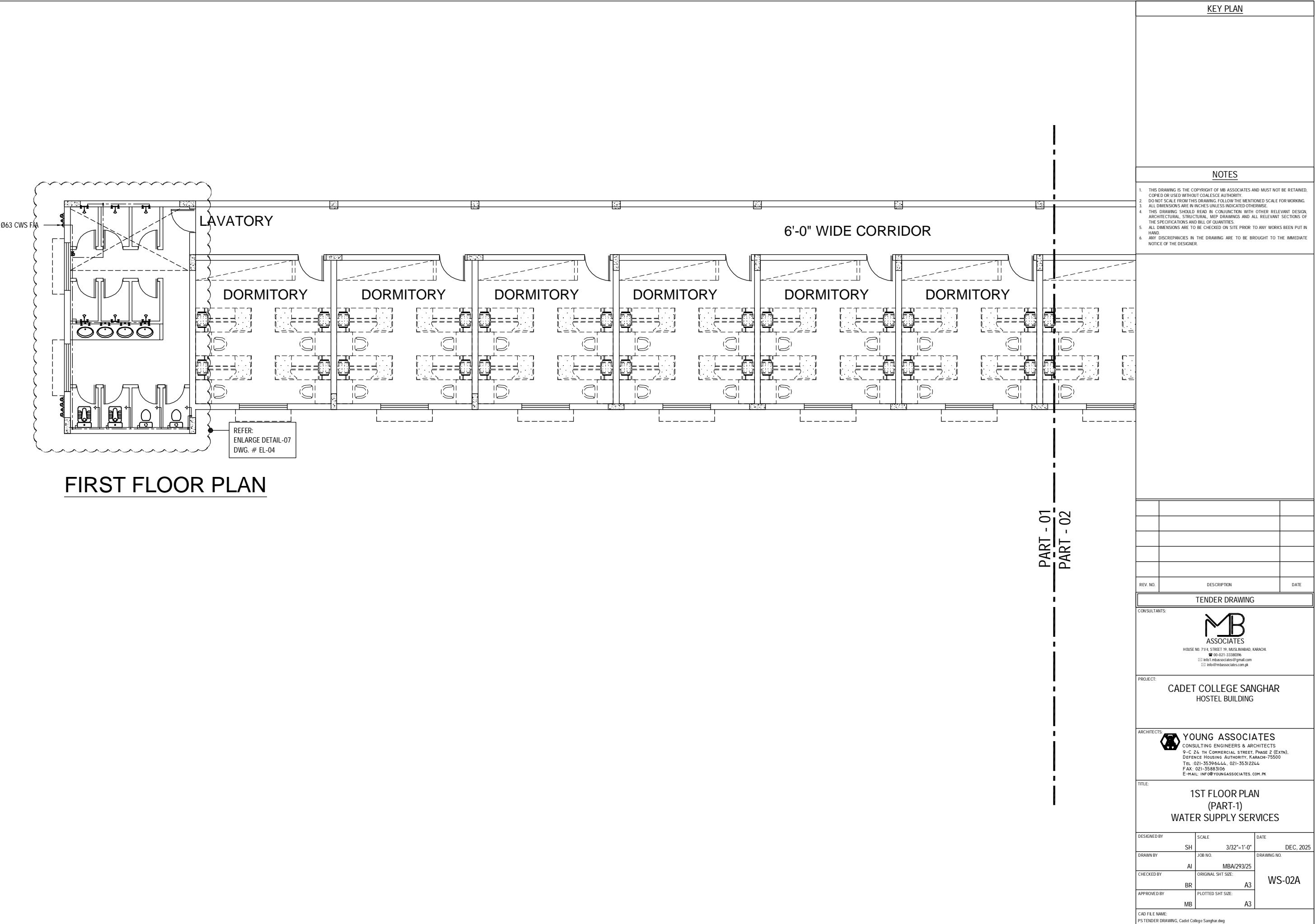
1ST FLOOR PLAN DRAINAGE SERVICES

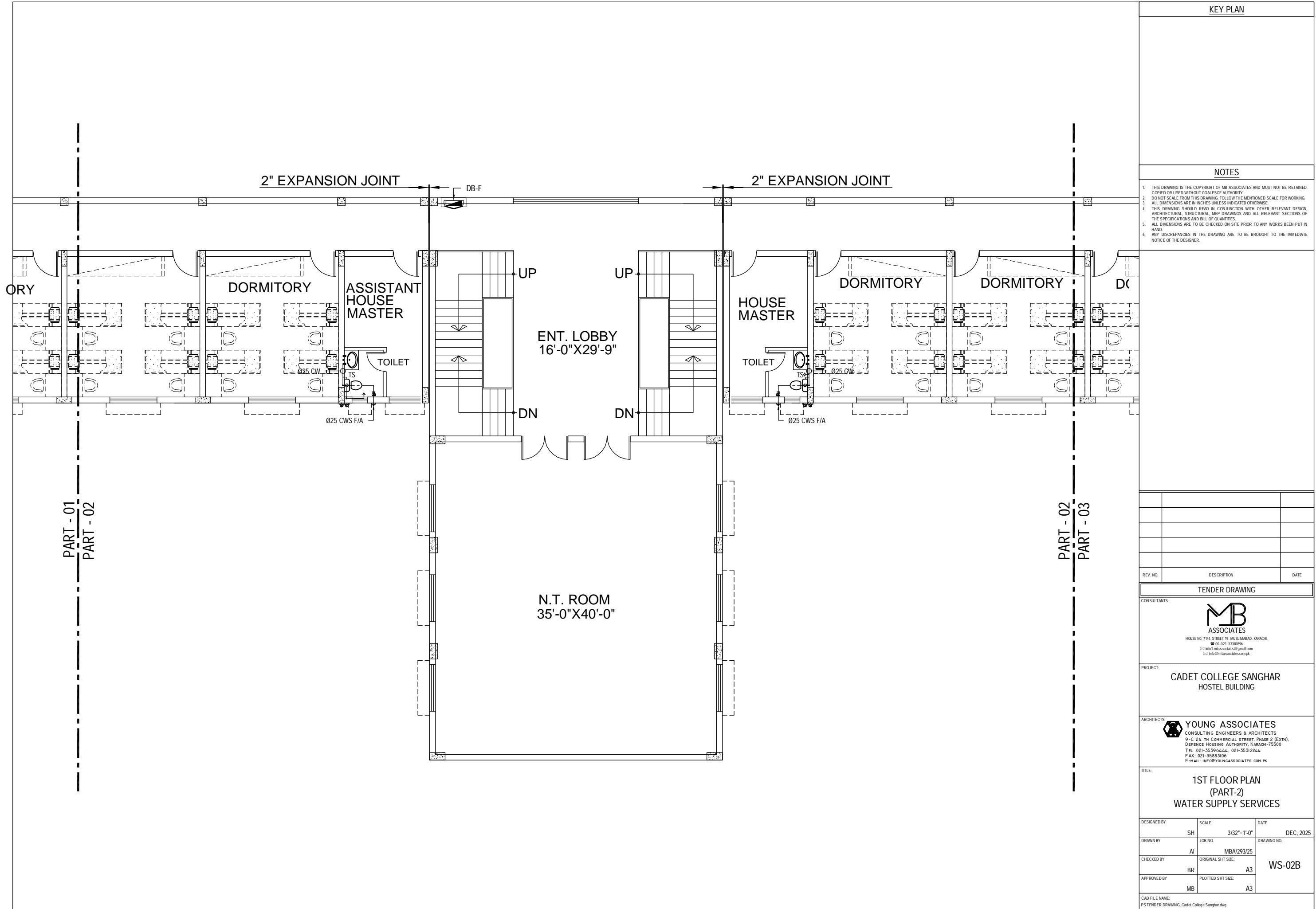
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SH		1/4"=1'-0"	DEC, 2025
WN BY		JOB NO.	DRAWING NO.
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ROVED BY		PLOTTED SHT SIZE:	
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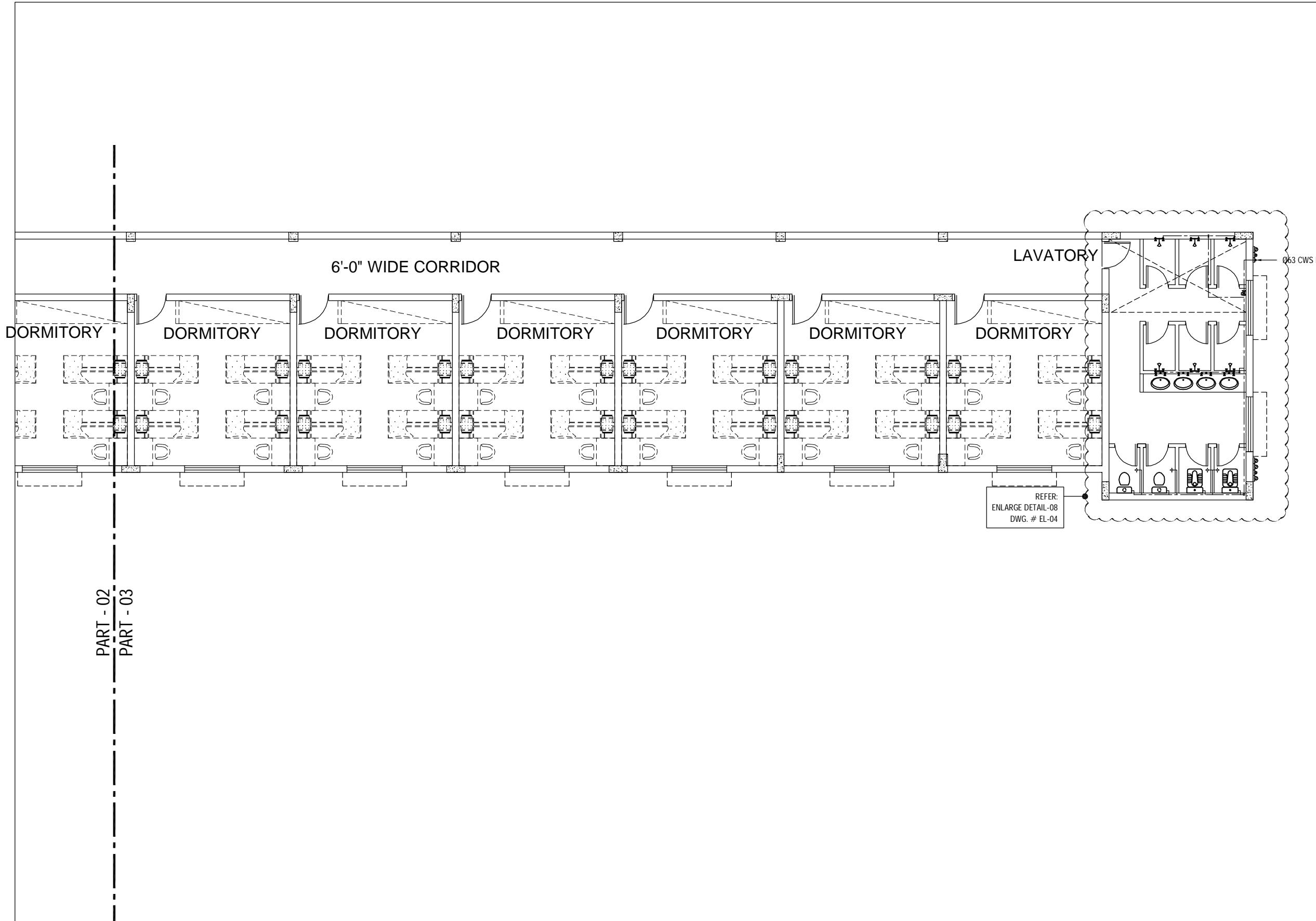
KEY PLAN		
NOTES		
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<p>050 CWS FA</p> <p>LAVATORY</p> <p>DORMITORY</p> <p>DORMITORY</p> <p>DORMITORY</p> <p>DORMITORY</p> <p>DORMITORY</p> <p>REFER ENLARGE DETAIL-05 DWG. # EL-03</p> <p>3'-0" WIDE PLINTH PROTECTION</p> <p>6'-0" WIDE CORRIDOR</p> <p>3'-0" WIDE PLINTH PROTECTION</p> <p>PART - 01</p> <p>PART - 02</p> <p>GROUND FLOOR PLAN</p>		
TENDER DRAWING		
<p>CONSULTANTS:</p> <p>MB ASSOCIATES HOUSE NO. 71/4, 5TH FLOOR, 79 MARYABAD, KARACHI. TEL: 021-35398989, 021-35312244 E-MAIL: info1.mbasociates@gmail.com info@mbassociates.com.pk</p>		
PROJECT:		
<p>CADET COLLEGE SANGHAR HOSTEL BUILDING</p>		
ARCHITECTS:		
<p>YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 9-C 24 TH COMMERCIAL STREET, PHASE 2 (EXTN), DEFENCE BUILDING AUTHORITY, KARACHI-75500 TEL: 021-35398544, 021-35312244 FAX: 021-35385300 E-MAIL: INFO@YOUNGASSOCIATES.COM.PK</p>		
TITLE:		
<p>GROUND FLOOR PLAN (PART-1) WATER SUPPLY SERVICES</p>		
DESIGNED BY		
SH	SCALE 3/32"=1'-0"	DATE DEC, 2025
DRAWN BY		
AI	JOB NO. MBA/293/25	DRAWING NO.
CHECKED BY		
BR	ORIGINAL SHT SIZE: A3	WS-01A
APPROVED BY		
MB	PLOTTED SHT SIZE: A3	
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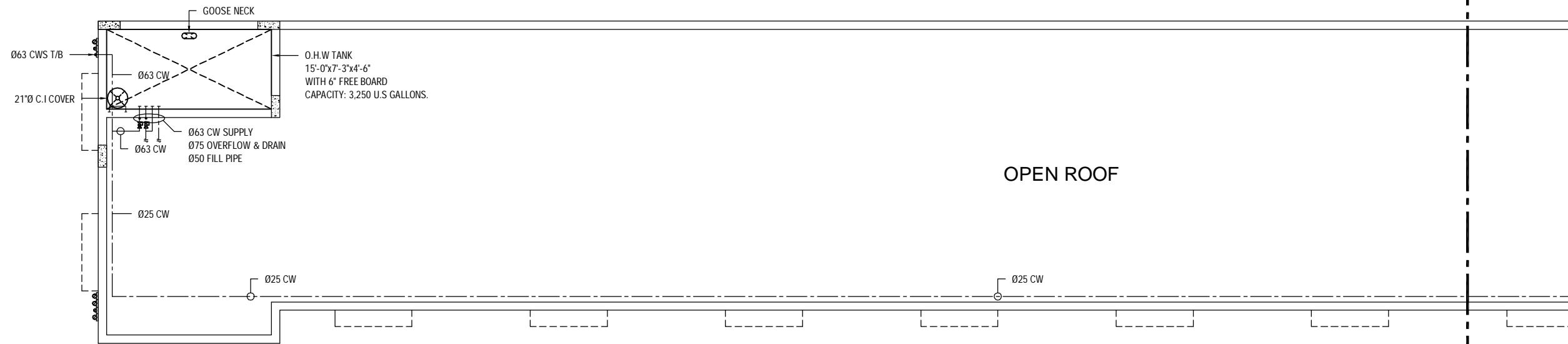


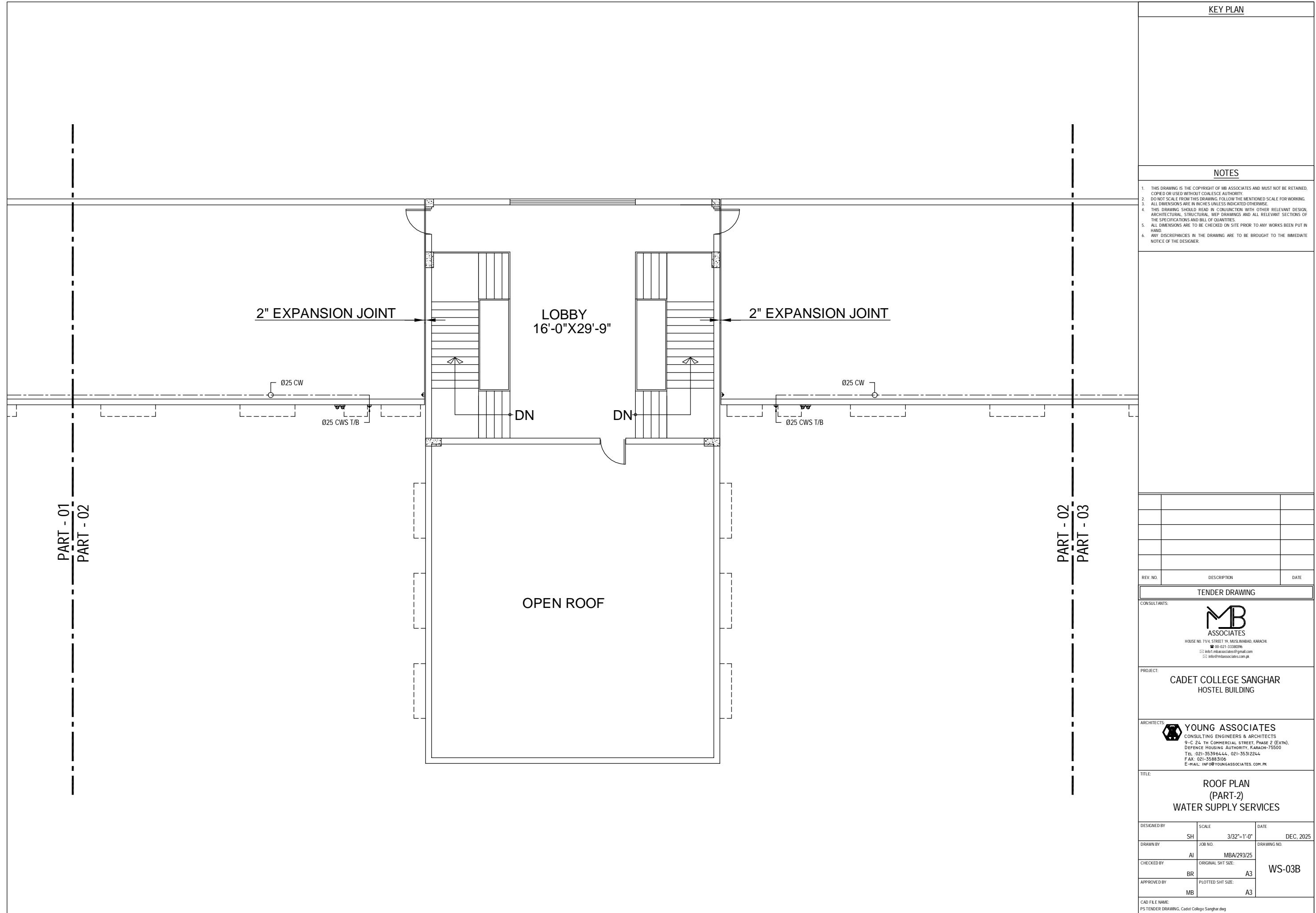
		KEY PLAN NOTES <p> 1. THIS DRAWING IS THE PROPERTY OF MB ASSOCIATES AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT COALESC AUTHORITY. 2. DO NOT SCALE FROM THIS DRAWING. FOLLOW THE MENTIONED SCALE FOR WORKING. 3. ALL DIMENSIONS ARE IN INCHES UNLESS INDICATED OTHERWISE. 4. THIS DRAWING SHOULD READ IN CONJUNCTION WITH OTHER RELEVANT DESIGN, ARCHITECTURAL, STRUCTURAL, MEP DRAWINGS AND ALL RELEVANT SECTIONS OF THE SPECIFICATIONS AND BIDS. 5. ALL DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO ANY WORKS BEEN PUT IN HAND. 6. ANY DISCREPANCIES IN THE DRAWING ARE TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE DESIGNER. </p>																																																					
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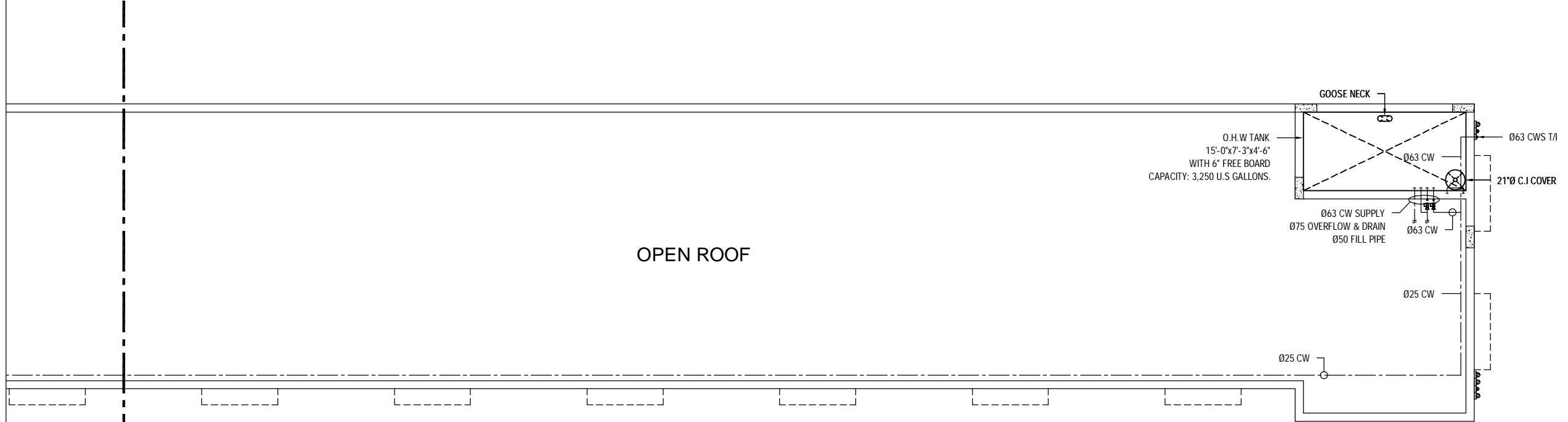




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CADET COLLEGE SANGHAR

CONSTRUCTION OF
LAL SHAHBAZ QALANDAR BOYS HOSTEL

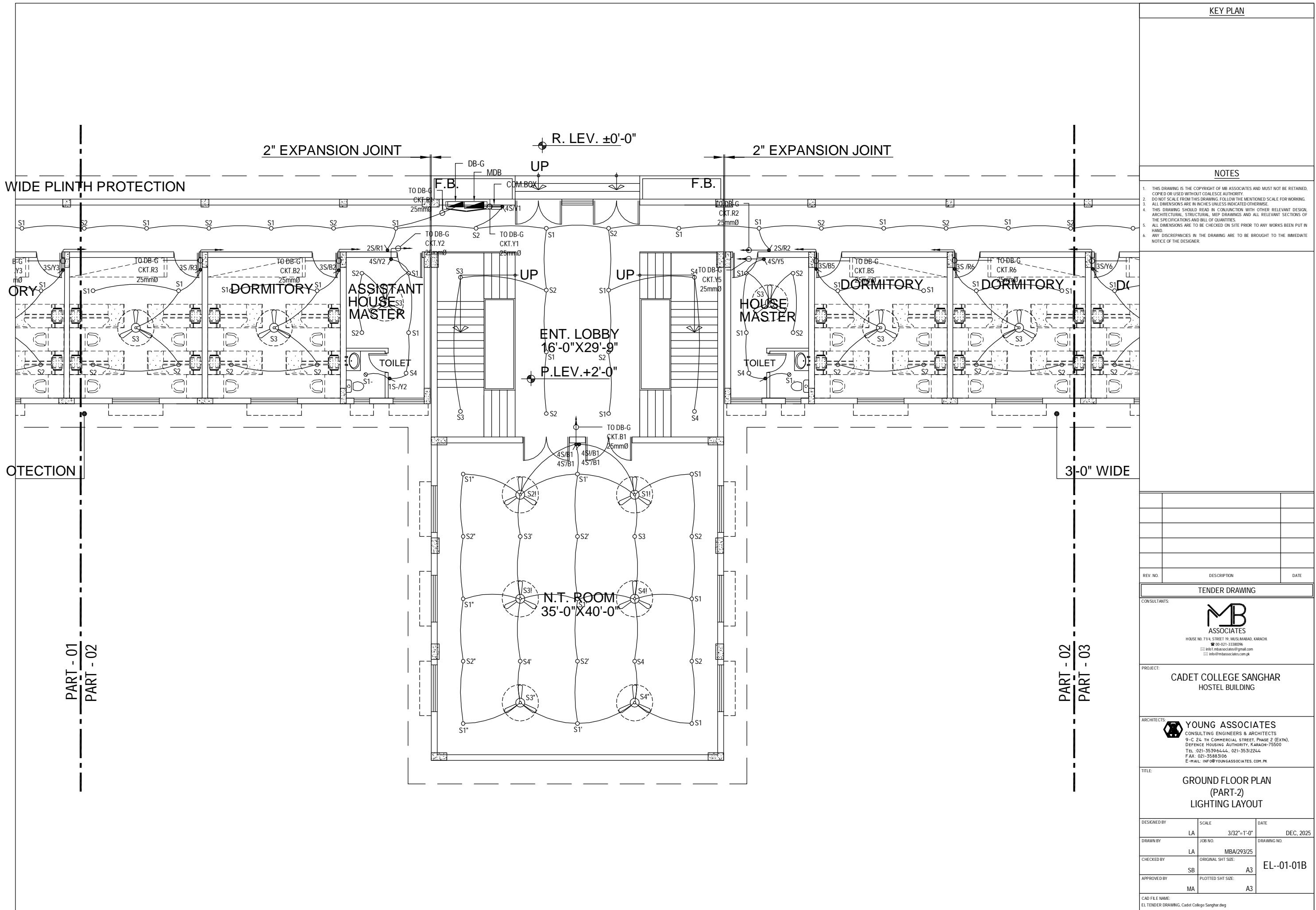
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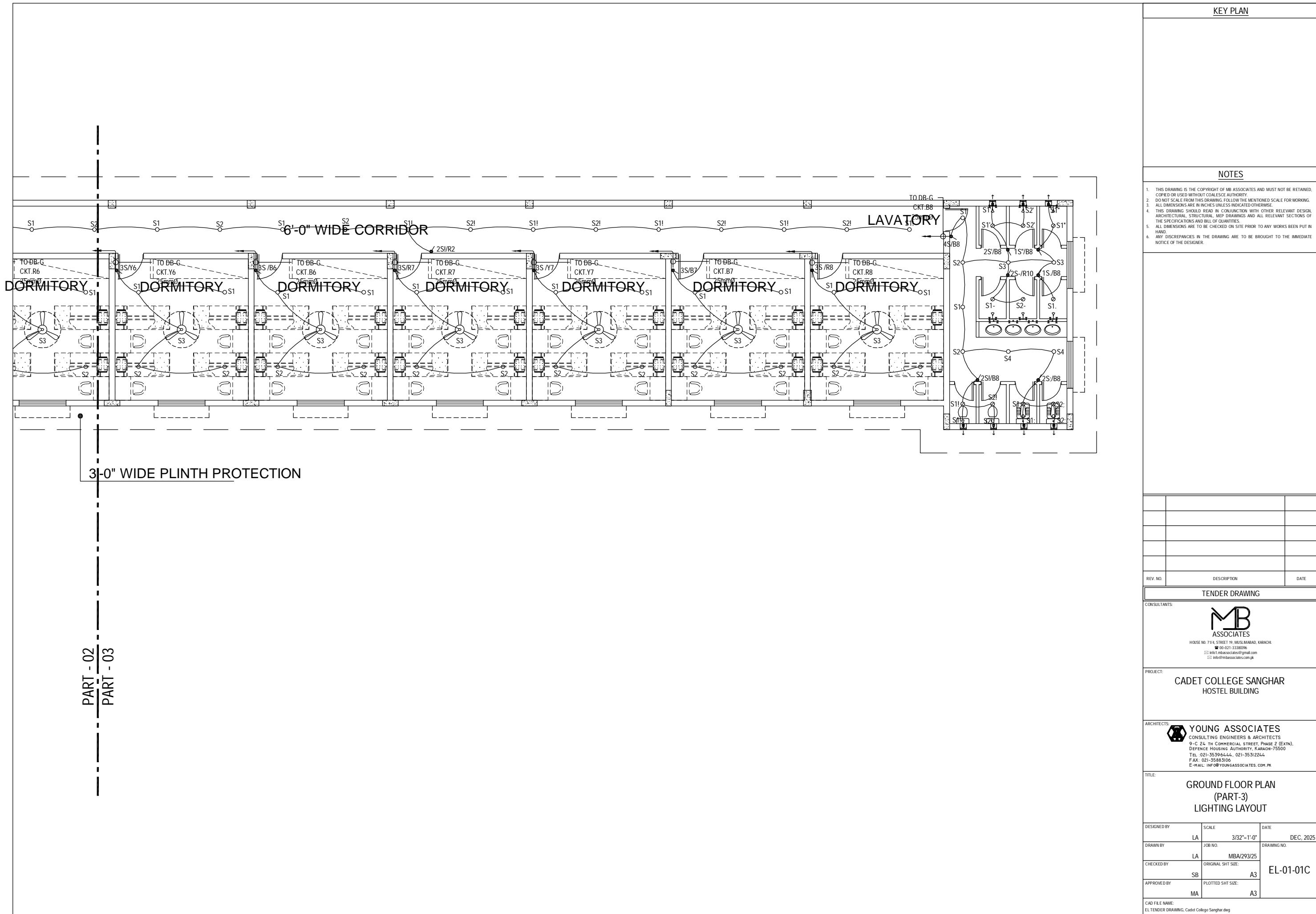
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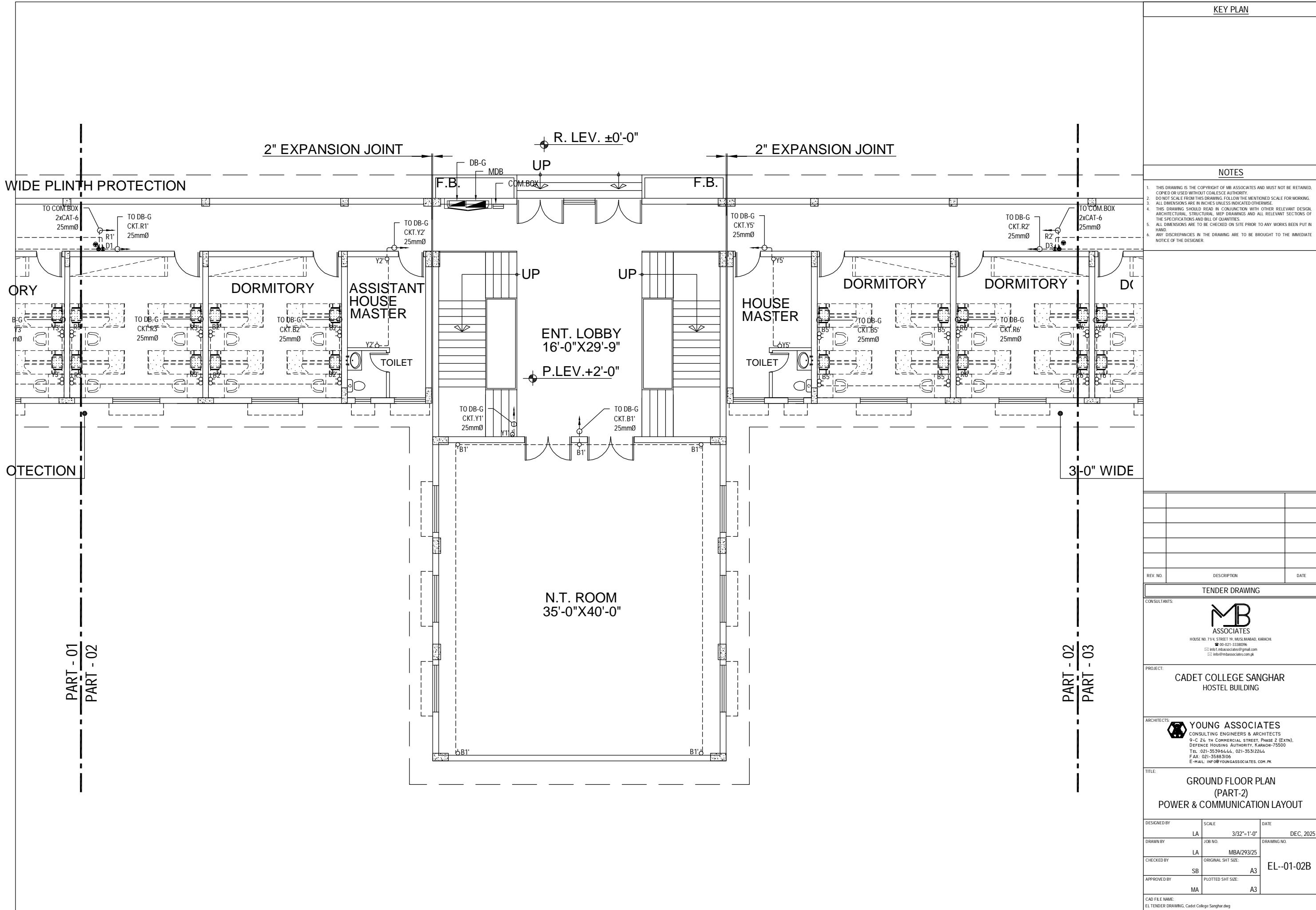
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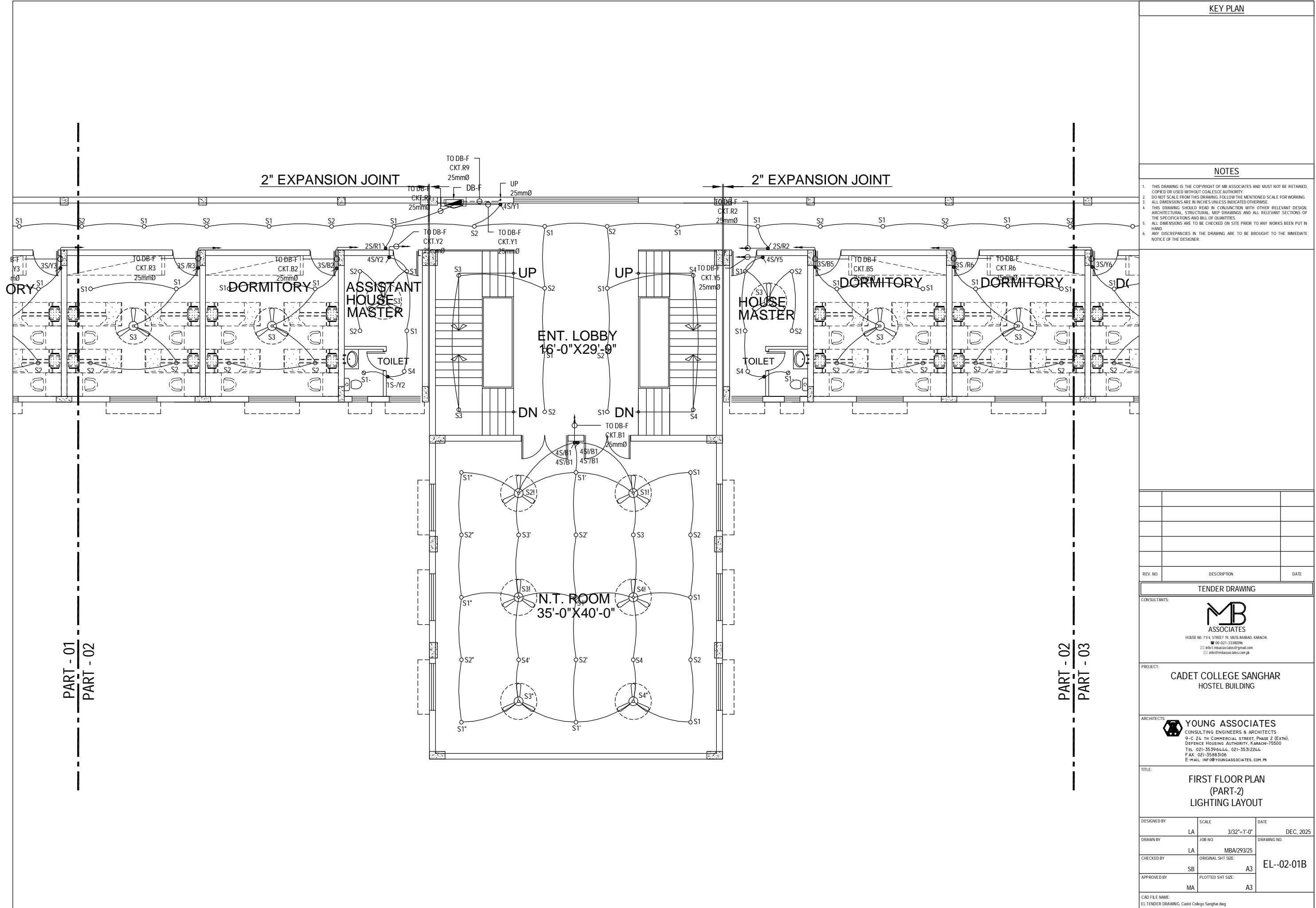


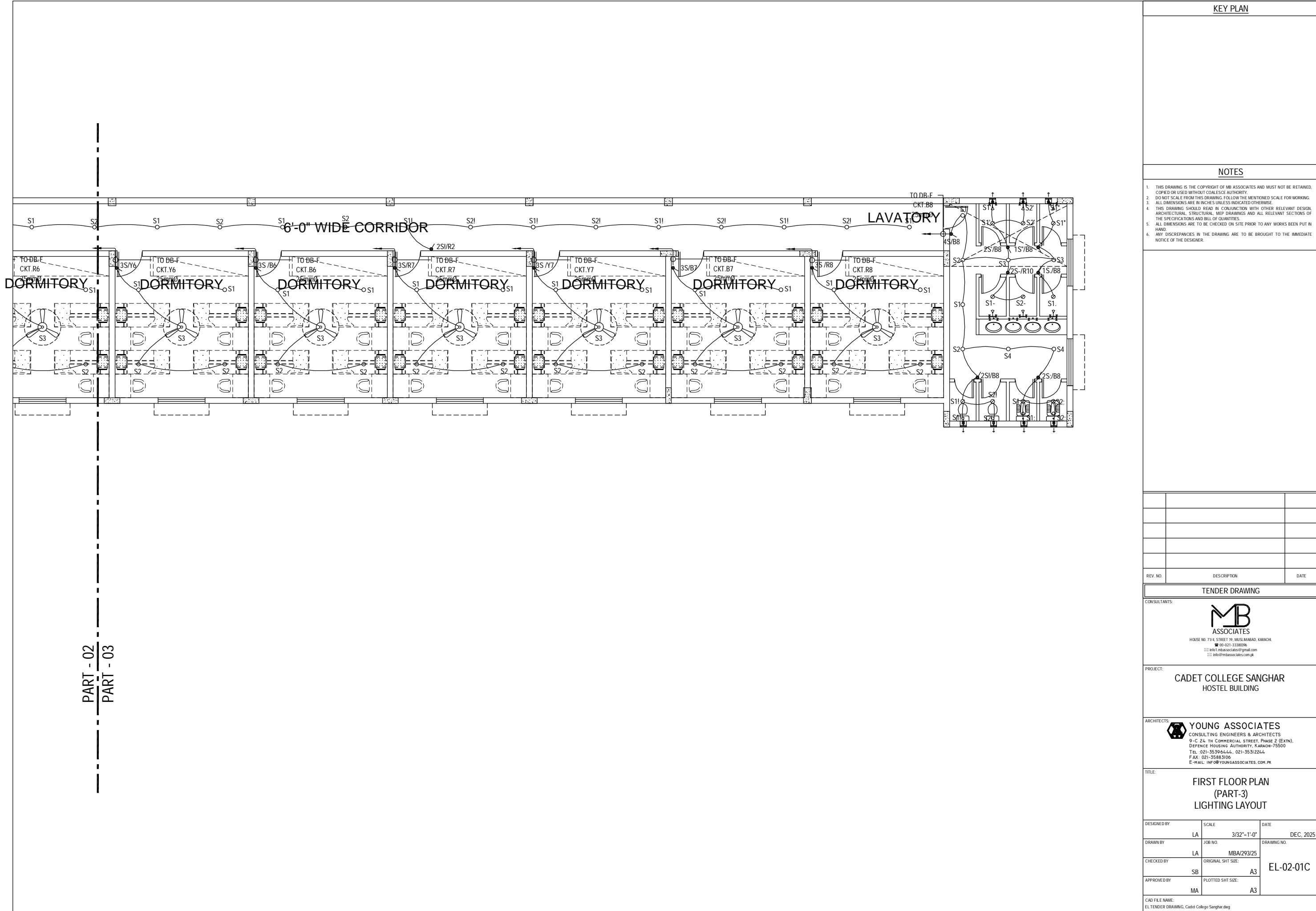
YOUNG ASSOCIATES
CONSULTING ENGINEERS & ARCHITECTS
9-C 24 th Commercial Street, Phase II (Extension) Defence Housing
Authority, Karachi-75500
Tel :021-35396444, 021-35312244, FAX : 021-35883106
E-mail: info @ young associates .com.pk

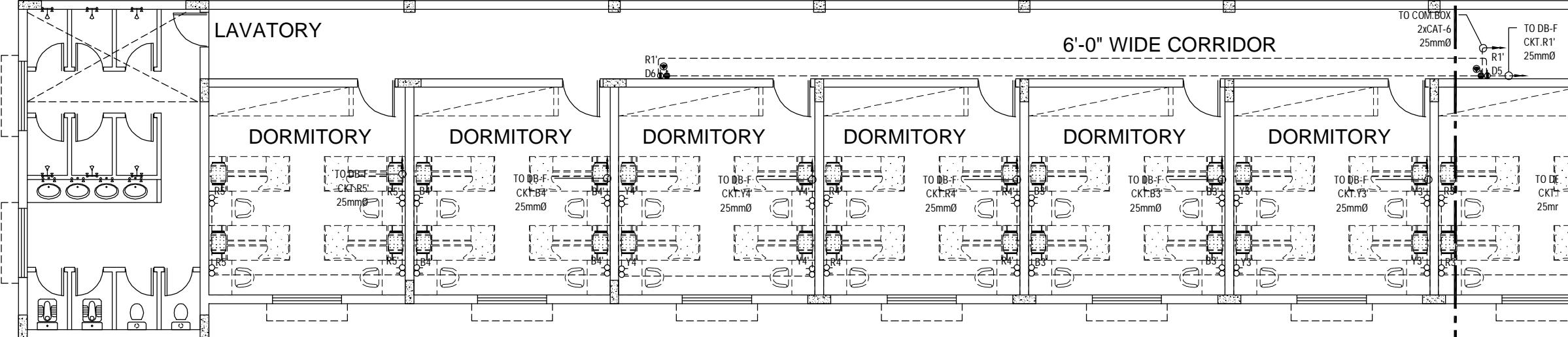


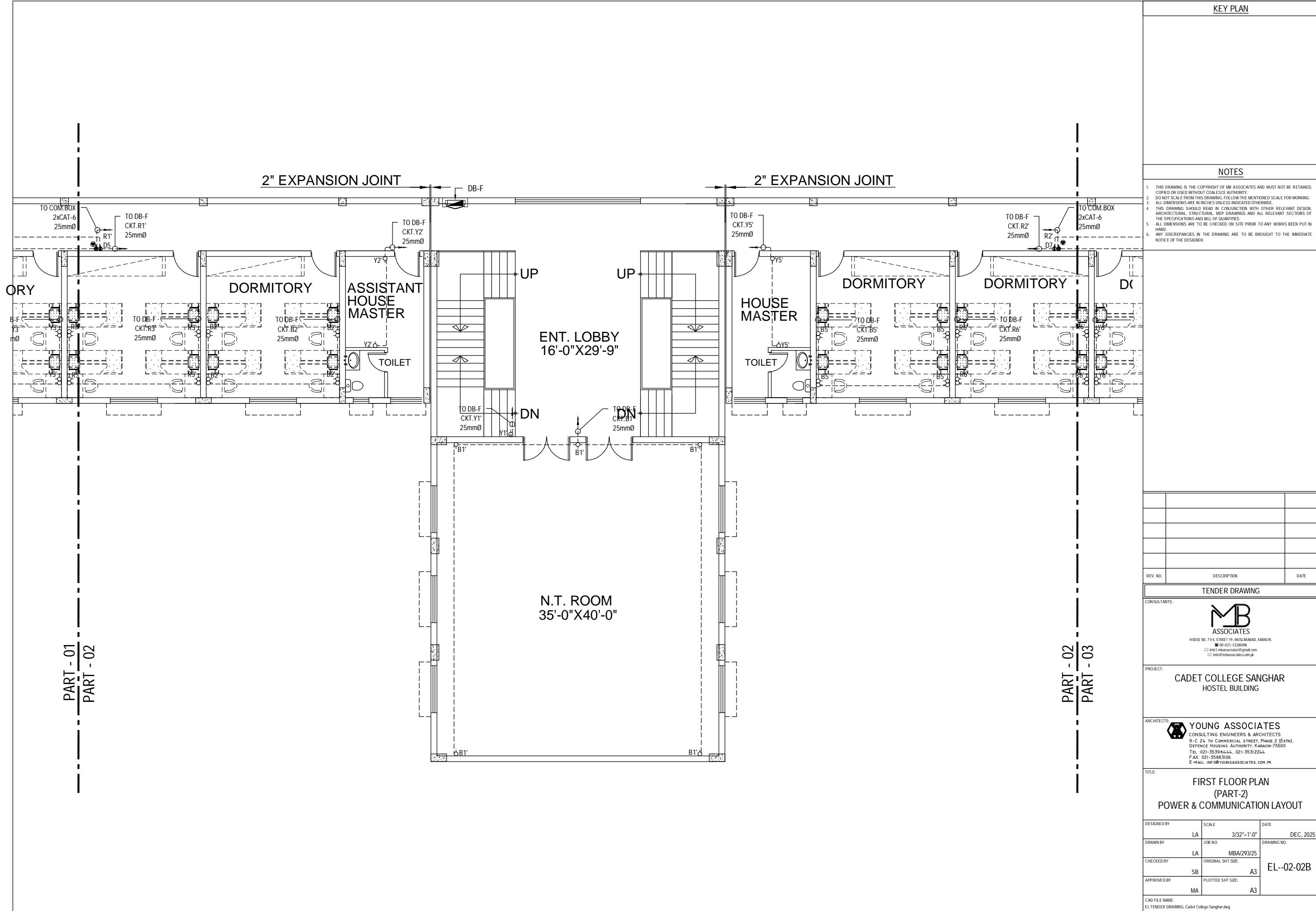


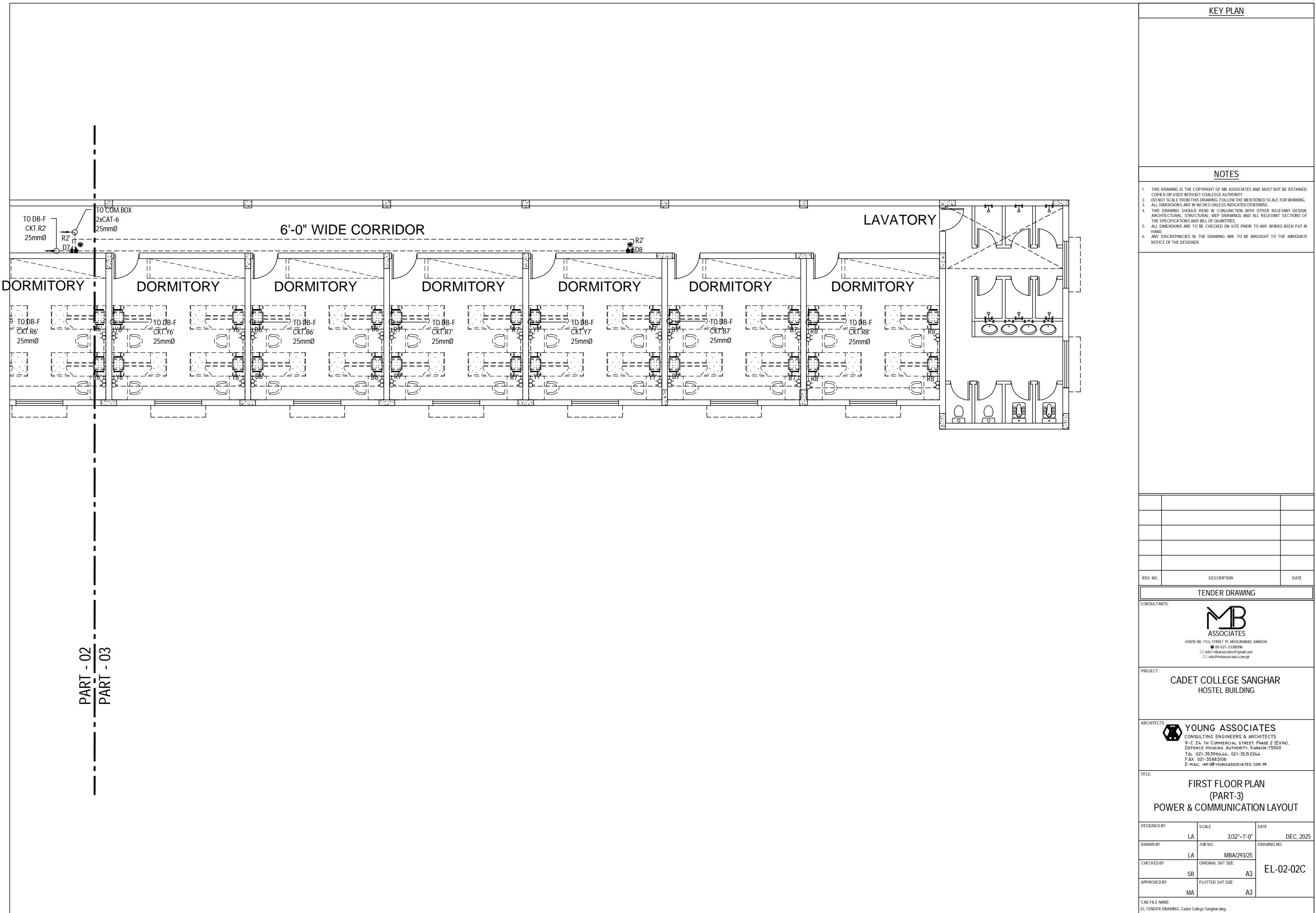


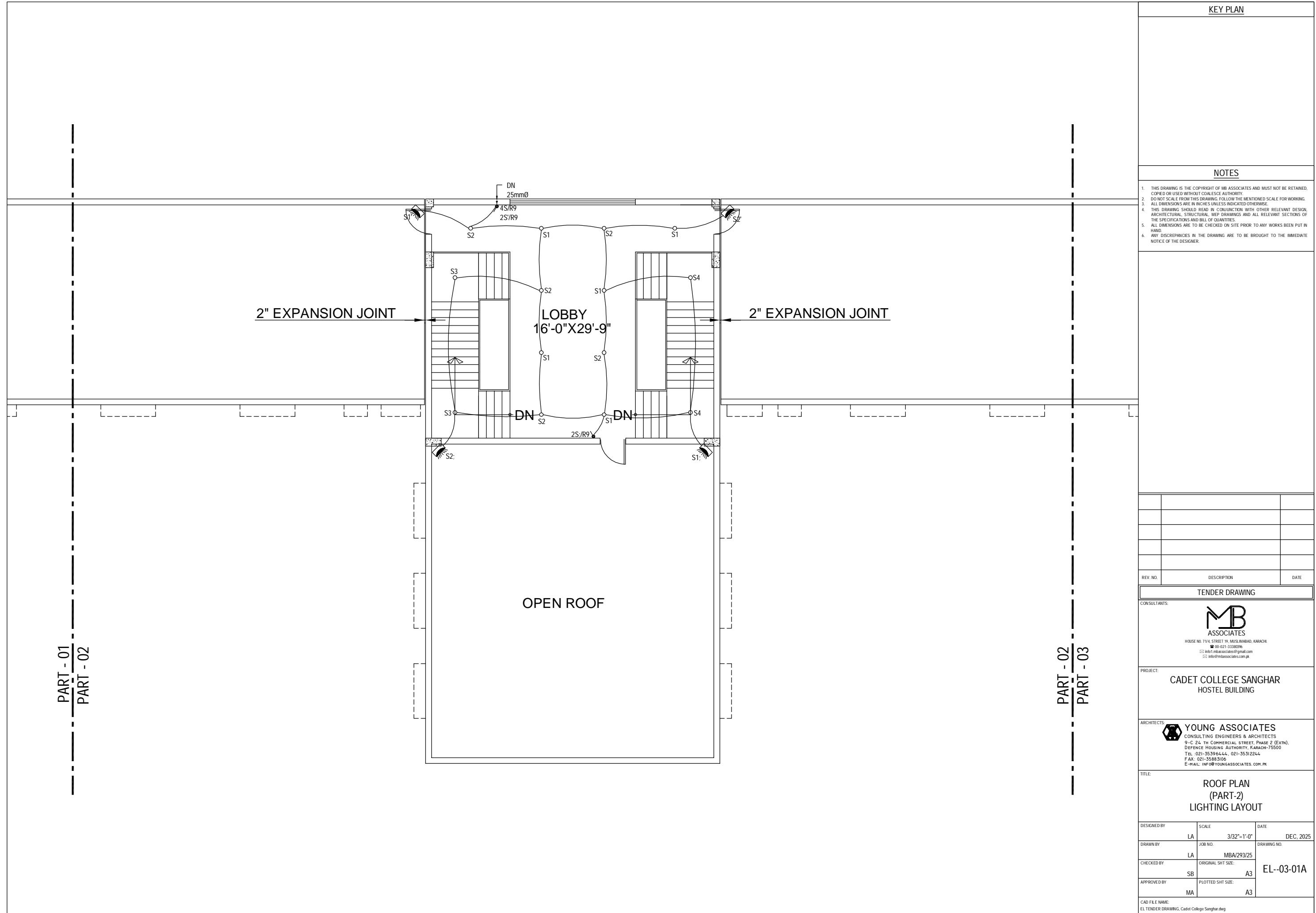




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TUESDAY JANUARY 6, 2026



CADET COLLEGE SANGHAR

At Jam Nawaz Ali, Via Tando Adam, District Sanghar

NOTICE INVITING TENDER

(Single Stage-Two Envelope Procedure)

NO.CCS/Adv./

/2026

Jan 2026

Cadet College Sanghar invites sealed Bids/ Tenders from interested Contractors of Good repute enlisted in category C-4 or above for construction of following works:

S. No	Name of Project	No./ Units	Total Area (SFT)	PCI Cost (Million)	Completion Period
1	CADET COLLEGE SANGHAR Construction Of Lal Shahbaz Qalandar Boys Hostel	1	23420	188.777	18 Months
2	a. Construction of Staff Family Quarters/ Flats category IV (Officers Colony)	8	8000	144.412	12 Months
	b. Construction of Lower Staff Family Quarters/ Flats category V	8	6900		12 Months
	c. Construction of Lower Staff Family quarters/ flats category VI	8	6000		12 Months
3	Construction of Military Training Staff Barrack & Classes	1	10600		12 Months

Scope of work details are mentioned in Bidding Documents.

Bidding/ Tender Documents: Complete set of Bidding Documents can be obtained from 6 till 20 January 2026 upon submission of a written application on official letter head and payment of a Non-refundable fee of Rs.10000 in the shape of Pay order in favor of Principal Cadet College Sanghar. The Bidding Documents will also be available on EPADs SPPRA's website and Cadet College Sanghar website (www.ccsanghar.edu.pk).

Submission: Technical and Financial bids completed in all respects in sealed envelopes separately mentioning name of work and marked as "Technical" and "Financial" Proposals must be submitted in one envelope on or before 21 January 2026 at 12:00 PM and must be accompanied by a Bid Security of 2% of the Bid price in the shape of Pay Order/ Demand draft in favor of Principal & Project Director, Cadet College Sanghar.

Tender Opening: Initially the Technical Proposal will be opened on 21 January 2026 at 02:00 PM, whereas the Financial Proposal will be retained with the Tender opening Committee. The technical proposal will be evaluated by Tender opening committee. Thereafter, financial proposal of technically qualified firms will be opened by the same committee on the date and time to be communicated to the bidders. The financial proposal of the bids found technically disqualified shall be returned unopened to the respective bidders. In case of unusual circumstance, Tenders will be opened on next working day at the same time.

Place of Issuance, Submission, Inquiries & Opening: Office of the Principal & Projector Director, Cadet College Sanghar al Jam Nawaz Ali via Tando Adam, District Sanghar.

Telephone Numbers: 0235-548008, 0235-548077, 0344-3611347.

Eligibility: Valid registration with Tax Authorities (FBR & SRB) & Pakistan Engineering Council in category C-4 and discipline as mentioned in Bidding Documents.

Bidding Procedure: Single Stage two Envelope

Terms & Conditions: Under the following conditions, Bids will be rejected.

- I. Conditional and Telegraphic Bids/ Tenders
- II. Bids not accompanied by Bid security of required amount and form
- III. Bids received after specified date and time
- IV. Bids submitted by black listed firms
- V. Incomplete bids as per instructions given in bidding documents.

Bids Validity Period: Ninety (90) days.

The Principal & Project Director, Cadet College Sanghar reserves the right to reject any or all bids subject to the relevant provisions of Sindh public procurement rules 2010 (amended time to time).

Principal/ Project Director

Cadet College Sanghar

QUAID-I-AZAM MOHAMMAD ALI JINNAH

DAWN

Sunday
January 4, 2026
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KARACHI
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34 Pages
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CADET COLLEGE SANGHAR

At Jam Nawaaz Ali, via Tando Adam, District Sanghar

NOTICE INVITING TENDER

(Single Stage-Two Envelope Procedure)



NOCCS/Ph/...

(2026)

Jan 2026

Cadet College Sanghar invites sealed Bids/Tenders from interested Contractors of Good (agriculture enlisted in category C-4 to category B) to construct the following works:

S. No	Name of Project	No./ Units	Total Area (SFT)	PCI Cost (Millions)	Completion Period
1	CADET COLLEGE SANGHAR				
	Construction of Lt. Shahbaz Quander Boys Hostel	1	23420	116.777	18 Months
	a. Construction of Staff Family Quarters/ Flats category IV (Officers Colony)	9	6000		12 Months
2	b. Construction of Lower Staff Family Quarters/ Flats category V	9	6000	144.413	12 Months
	c. Construction of Lower Staff Family Quarters/ Flats category VI	9	6000		12 Months
3	Construction of Military Training Staff Barrack & Classes	1	10600		12 Months

Scope of work details are mentioned in Bidding Documents.

Bidding Tender Documents: Complete set of Bidding Documents can be obtained from 6 till 20 January 2026 (noon) submission of a written application in official letter (read and payment of a Non-refundable fee of Rs. 1000/- in the shape of Pay order in favor of Principal Cadet College Sanghar. The Bidding Documents will also be available on CPAOs, SPNEU's website and Cadet College Sanghar website (www.ccsanghar.edu.pk). Submission: Technical and Financial bids completed in all respects in sealed envelopes separately mentioning scope of work and marked as "Technical" and "Financial". Proposals must be submitted in one envelope on or before 21 January 2026 at 12:00 PM and must be accompanied by a Bid Security of 2% of the Bid price in the shape of Pay Order/Demand draft in favor of Principal & Project Director, Cadet College Sanghar.

Tender Opening: Initially the Technical Proposal will be opened on 21 January 2026 at 02:00 PM, whereas the Financial Proposal will be retained with the Tender opening Committee. The technical proposal will be evaluated by Tender opening committee. Thereafter, technical proposal of technically qualified firms will be opened by the same committee on the date and time to be communicated to the bidders. The financial proposal of the bids found technically disqualified shall be returned (unopened) to the respective bidders. In case of unusual circumstances, Tenders will be opened on next working day at the same time.

Place of issuance, Submission, Inquiries & Opening: Office of the Principal & Project Director, Cadet College Sanghar at Jam Nawaaz Ali via Tando Adam, District Sanghar.

Telephone Numbers: 0235-5-14010, 0235-5-48077, 0344-3611347.

Eligibility: Valid registration with Tax Authorities (FBR & SFRB) & Pakistan Engineering Council in category C-4 and discipline as mentioned in Bidding Documents.

Bidding Procedure: Single Stage Two Envelope

Terms & Conditions: Under the following conditions, Bids will be rejected

- i. Conditional and Telegraphic Bids/Tenders
- ii. Bids not accompanied by Bid security of required amount and form
- iii. Bids received after a specified date and time
- iv. Bids submitted by black listed firms
- v. Incomplete bids as per instructions given in bidding documents.

Bids Validity Period: Ninety (90) days

The Principal & Project Director, Cadet College Sanghar reserves the right to reject any or all bids subject to the relevant provisions of Sixth public procurement rules 2016 (amended term to term).

Principal/ Project Director
Cadet College Sanghar

دہلی رنگ کراچی، جنرال آباد، سکرمان شاپ، ڈیلی کاوش

DAILY
KAWISH

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CADET COLLEGE SANGHAR

At Jam Nawaz Ali, Via Tando Adam, District Sanghar

NOTICE INVITING TENDER (Single Stage-Two Envelope Procedure)

HO/CCS/Adv/

/2026

Jan 2026

Cadet College Sanghar invites sealed Bids/Tenders from interested Contractors of Good repute enlisted in category C-4 or above for construction of following works:

S. No	Name of Project	No. / Units	Total Area (SFT)	PC1 Cost (Million)	Completion Period
1	CADET COLLEGE SANGHAR				
	Construction Of Lal Shahbaz Qalandar Boys Hostel	1	23420	168.777	18 Months
	a. Construction of Staff Family Quarters/ Flats category IV (Officers Colony)	8	8000		12 Months
2	b. Construction of Lower Staff Family Quarters/ Flats category V	8	6800	144.412	12 Months
	c. Construction of Lower Staff Family quarters/ flats category VI	8	6000		12 Months
3	Construction of Military Training Staff Barrack & Classes	1	10600		12 Months

Scope of work details are mentioned in Bidding Documents.

Bidding/ Tender Documents: Complete set of Bidding Documents can be obtained from 6 till 20 January 2026 upon submission of a written application on official letter head and payment of a Non-refundable fee of Rs. 10000 in the shape of Pay order in favor of Principal Cadet College Sanghar. The Bidding Documents will also be available on EPADS SPPRA's website and Cadet College Sanghar website (www.ccsanghar.edu.pk).

Submission: Technical and Financial bids completed in all respects in sealed envelopes separately mentioning name of work and marked as "Technical" and "Financial" Proposals must be submitted in one envelope on or before 21 January 2026 at 12:00 PM and must be accompanied by a Bid Security of 2% of the Bid price in the shape of Pay Order/ Demand draft in favor of Principal & Project Director, Cadet College Sanghar.

Tender Opening: Initially the Technical Proposal will be opened on 21 January 2026 at 02:00 PM, whereas the Financial Proposal will be retained with the Tender opening Committee. The technical proposal will be evaluated by Tender opening committee. Thereafter, financial proposal of technically qualified firms will be opened by the same committee on the date and time to be communicated to the bidders. The financial proposal of the bids found technically disqualified shall be returned unopened to the respective bidders. In case of unusual circumstance, Tender will be opened on next working day at the same time.

Place of Issuance, Submission, Inquiries & Opening: Office of the Principal & Projector Director, Cadet College Sanghar at Jam Nawaz Ali via Tando Adam, District Sanghar.

Telephone Numbers: 0235-548008, 0235-548077, 0344-3611347.

Eligibility: Valid registration with Tax Authorities (FBR & SRB) & Pakistan Engineering Council in category C-4 and discipline as mentioned in Bidding Documents.

Bidding Procedure: Single Stage two Envelope

Terms & Conditions: under the following conditions, Bids will be rejected.

- i. Conditional and Telegraphic Bids/ Tenders
- ii. Bids not accompanied by Bid security of required amount and form
- iii. Bids received after specified date and time
- iv. Bids submitted by black listed firms
- v. Incomplete bids as per instructions given in bidding documents.

Bids Validity Period: Ninety (90) days.

The Principal & Project Director, Cadet College Sanghar reserves the right to reject any or all bids subject to the relevant provisions of Sindh public procurement rules 2010 (amended time to time).

**Principal/ Project Director
Cadet College Sanghar**



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CTM No. 188 /2025

07 October 2025

**FOMRULATION OF COMPLAINT REDRESSAL COMMITTEE (FOR HIRING OF
CONSULTANT FOR CONSTRUCTION OF LAL SHAHBAZ QALANDAR BOYS HOSTEL
AND LOWER STAFF FAMILY QUARTERS IN CADET COLLEGE SANGHAR (CCS)**

1. As per CCS Rues & Regulations, Complaint Redressal Committee for hiring of Consultant is as under:

a.	Principal, CCS	President
b.	Vice Principal (Admin), CCS	Member
c.	Engineer, CCS	Member
d.	Bursar, CCS	Member
e.	Religious Motivational Officer (RMO)	Member

2. The Committee is to follow the SPPRA / PPRA and other concerning rules in vogue.



ZEEHAN ALI SI(M)

Commodore
Commandant / Principal
Cadet College Sanghar

Distribution:

All Concerned



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CTM No. 189 /2025

07 October 2025

**FOMRULATION OF TENDER OPENING COMMITTEE (FOR HIRING OF CONSULTANT
FOR CONSTRUCTION OF LAL SHAHZAD QALANDAR BOYS HOSTEL AND LOWER STAFF
FAMILY QUARTERS IN CADET COLLEGE SANGHAR (CCS)**

1. As per CCS Rues & Regulations, the formulation of Tender Opening Committee for hiring of Consultant is as under:

a.	Principal, CCS	President
b.	Rep of CTA/ CMES COMKAR	Member
c.	Vice Principal (Admin), CCS	Member
d.	Engineer, CCS	Member
e.	Bursar, CCS	Member
f.	Religious Motivational Officer (RMO)	Member

2. The Committee is to follow the SPPRA / PPRA and other concerning rules in vogue.

Distribution:

All Concerned

ZEEFAN ALI SI(M)

Commodore
Commandant / Principal
Cadet College Sanghar