

ADVERTISEMENT FOR TENDER

Ref. No.: DAV/SILLI/2024-25/

Date: 24 /02/2025

On behalf of DAV CMC, New Delhi, sealed tenders are invited from interested eligible construction companies for the construction work of **2nd Phase of School Building (7rooms + lift well + stairs)** at DAV Mahatma Anand Swami Public School, Silli, Ranchi (Jharkhand) as per drawing and design of architect and approved by DAV College Managing Committee, New Delhi against detailed terms & conditions mentioned in the tender documents. The following are the highlights of the brief terms & conditions.

1. The lowest quoted rate (Item Rate) / tender will be selected by the competent authority/Building sub- committee, subject to technical qualification and work experience.
2. The offered rates are negotiable. The rate quoted by the tenderers must be **inclusive of G.S.T.**
3. Standard/Premium quality/materials to be used.
4. The Work of Ground and First floor must be completed within 06 months from the date of allotment of the said work while the upper 2 floors should be completed in another 2 Months.
5. Sealed quotations be sent to the Headmistress, DAV Mahatma Anand Swami Public School, Silli, Ranchi (Jharkhand) Pin Code- 835101.
6. Drawing, design and specifications provided by the Architect should be studied properly before submitting the bid (**technical bid and financial bid**).
7. The details of the work to be done is available on the school's website i.e www.davsilli.org .
8. Interested parties are requested to visit DAV Mahatma Anand Swami Public School, Silli, Ranchi (Jharkhand) site if they wish, before quoting the rates.
9. Technical bid should be submitted **on or before 28/02/2025** through email construction.davsilli@gmail.com .
10. Information regarding selection and rejection of technical bid will be intimated through mail.
11. Last date for submitting the sealed financial bid (by post or by hand) will be

03/03/2025. After that no entry will be accepted.

12. The financial bid will be opened on **05/03/2025** at DAV Mahatma Anand Swami Public School, Gola Road Chota Muri, Block-Silli, District-Ranchi, Jharkhand.
13. The competent authority / Building Sub-Committee reserves the right to accept or reject any of the tenders without assigning any reason.
14. All payments by the employer under the contract/agreement will be made by mutual understanding on submission of running bill and has to be approved by the designated Architect.
15. The terms & conditions are mentioned in the Tender Documents which must be strictly adhered to.

Tender Document

The Management of DAV CMC, (hereinafter referred to as the "Management") is pleased to confirm the construction of 2nd Phase of School Building (7rooms + lift well + stairs) on the following terms and condition and as per rates Item Rate, as per B.O.Q. including all materials of construction needed.

1. Tenderers (hereinafter referred to as "Contractor" implying the Tenderer who has been awarded the tender work/contract) should keep their price same during the construction period and no escalation whatsoever on any account shall be payable to them.
2. The Contractor shall ensure strict compliance of all labour laws including Minimum Wages Act, 1948, The Building and Other Construction Workers Act 1996, The Factories Act, 1948, Payment of Gratuity Act, 1972 and all other similar enactments that may be applicable in respect of such personnel. The Contractor shall keep D.A.V. School and its Management indemnified against all claims in this regard. In the event of the company having to pay any amount due to non-observation of the various provisions under the applicable Acts and enactments, the Contractor shall be liable to reimburse the aforesaid amount to D.A.V. School CMC.
3. The Contractor shall strictly follow all safety norms with regard to the labour/personnel and such safety norms must meet the relevant statutory and regulatory requirements. The Contractor shall be solely responsible for any safety hazards and claims arising out of this Contract and the Contractor shall keep D.A.V. School CMC and its Management indemnified from any such claims that may arise therefrom in that regard.
4. The Contractor shall complete the work in all respects within 06 months from the date of allotment of the said work while the upper 2 floors should be completed in another 2 Month from the date of written order to commence the work.
5. The Contractor shall make his own arrangements for transportation or supply of all materials and labour at the site and the Management will not make arrangements for the same.
6. The Labour supplied by the Contractor shall not join any union or participate in any union activities inside or outside the premises of D.A.V. School, Silli and the labour deployed by the Contractor will functionally be under the administrative control of the Contractor and the labour will perform duties as per the norms and instructions of the Management.
7. All Works completed as per drawing and must follow instruction of Architects/ Engineers/ D.A.V. School Management.

8. The Contractor shall arrange lockable stores/sheds in the premises for the safe custody of materials issued by the D.A.V. School Management and entire responsibility for the above safe custody shall be attributed to the Contractor and be dismantled on completion. The Contractor must ensure that sheets are provided around the proposed site to safeguard children from entering the site. Any liability arising therefrom due to any negligence shall be attributable to the Contractor.
9. Electricity Charges will be borne by the Contractor. The Contractor is required to make his own arrangement for water supply from existing Borewell on site, for construction and curing brick work , flooring plastering etc. continuously for at least 10 days and RCC work with span upto 3200mm 15 days and for RCC beams etc. exceeding 3200 mm in length/height the curing period shall be minimum 21 days.
10. The Contractor is expected to arrange sufficient quality of shuttering materials and props for continuous RCC casting with beams and slabs in one operation and construction.
11. The Contractor should arrange and keep at site constructional machineries and equipment such as concrete mixer, vibrators, leveling instrument with staff, theodolite, water pump with all fittings and other equipment as may be required for smooth execution of the construction work.
12. In case of breach of the terms of this Contract OR if the Contractor is unable to complete the work satisfactorily **and** as per the agreed time Schedule as provided in this Contract, the Management shall reserve the right to terminate the contract at any time during the period of Contract giving a notice of two weeks'. The Contractor shall not be entitled to any compensation on account of such termination of the Contract. In case of any dispute, the decision of the management shall be final and legally binding on the contractor.
13. The Contractor shall give the contact details of one or more responsible representatives authorized to act on behalf of the Contractor to the Management. The Contractor shall ensure that one of those representatives regularly inform the authorized representative of the Management about the update of the work on a specific day of the week as mutually agreed upon and remains in constant touch with them to exchange information and instructions about the work to be done under this Contract.
14. The Contractor shall be responsible to supply adequate Labour for fulfilling the work entrusted to him within the time as stipulated by the Management of D.A.V. School Management failing which the Management, at its discretion and without terminating the agreement shall be at liberty to make alternative arrangements to get the work fulfilled at the risk and cost of the Contractor who shall be liable to make good to the company all additional charges, expenses, costs etc. that the D.A.V. School Management may incur or suffer thereby.

15. The Contractor shall indemnify D.A.V. School and its Management, for any loss or damage sustained by it due to the improper performance of the work by the Contractor and under this agreement, any loss sustained by D.A.V. School Management may be recovered from the bills payable to the Contractor under this agreement. Should the above sums not suffice to cover the full amount recoverable, the Contractor shall pay to D.A.V. School Management on demand, the balance amount.
16. The Contractor shall not sublet or transfer the whole or any part of the functions under this agreement or assign of the benefits under this agreement to any other person, firm or company without the previous written approval and express consent of the Management.
17. The Contractor shall be solely responsible to any third party for any damage or injury caused to the misfeasance, nonfeasance, or malfeasance of the contractor and agrees to fully compensate D.A.V. School Management for any legal liabilities, damages, or losses arising from the actions of the Contractor's employees while working on the premises of D.A.V. School.
18. Any hazards or accidents caused on the site shall be the sole responsibility of the Contractor. It must be made clear that D.A.V. School or its Management shall not be responsible or liable for the same in any manner whatsoever.
19. The Contractor shall be bound by all laws, orders etc. in force or issued by the Central or State Govt. from time to time and shall be solely liable for any Penal Consequences that may arise due to violation by the labour hired by the Contractor or by the Contractor himself.
20. For any dispute during the construction period, decision of the D.A.V. School Management shall be final and binding on the Contractor.
21. The Quantities in B.O.Q. are indicative and may vary during construction.
22. Cube test for R.C.C. work is to be done by the Contractor as per the instruction of the architects/ Engineer/ Management.
23. The contractor shall employ one full time, site engineer (civil diploma holder with Minimum 5 years' experience)
24. Contractor must have successfully completed 2 similar works in last 3 years (Completion Certificate must be submitted).
25. No Bamboo props will be allowed and only plywood shuttering & steel/ Sal wood props for all R.C.C. work will be allowed.
26. Defect liability period – 1st Rains or one year, whichever is earlier.
27. 5% Security will be deducted from each bill and will be released after completion of liability period
28. T.D.S. will be deducted as per norms.

29. All Items Rate will be inclusive of all Carriages of materials

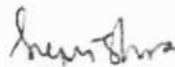
30. Earnest money ₹2.0 Lakh will be deposited for tender (will be refundable) and will be paid after liability period of the successful tenderer. The cheque will be in favour of **DAV PUBLIC SCHOOL, SILLI**

Enclosures:-

1. Working Drawings.
2. Structural Drawings
3. B.O.Q



HEADMISTRESS
HEADMISTRESS
DAV M.A.S. Public School
Silli, Ranchi



MANAGER
MANAGER
DAV M.A.S. Public School
Silli, Ranchi



ASSISTANT REGIONAL OFFICER
Assistant Regional Officer
DAV Institutions
Jharkhand Zone - J

**BILL OF QTY. FOR PROPOSED CONSTRUCTION OF 2nd Phase of School Building
At -"DAV MAHATMA ANAND SWAMI PUBLIC SCHOOL, SILLI, RANCHI.**

CIVIL WORKS					
SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
1.	EARTH WORK IN EXCAVATION IN FOUNDATION Trenches in all type of soil and disposal of excavated earth as obtained to a distance upto 100 M including all lift, leveling ramming the foundation trenches, removing roots of tree shrubs all complete as per approved design, building specification and direction of E/I.	200.79	CU.M		-
2.	FILLING IN FOUNDATION TRENCHES AND PLINTH in layers not exceeding 150 mm thick well watered, rammed, fully compacted and fine dressed with earth obtained from excavation foundation trenches within a lead of 100 M and lift of 1.5 M all complete as per building specification and direction of E/I. (mode of measurement compacted volume)	200.79	CU.M		-
3.	Providing coarse clean local SAND IN FILLING in foundation trenches or in plinth including ramming and watering in layer not exceeding 150 mm thick with all leads and 1.5 M lifts including cost of all materials, labours, royalty, carriages and taxes all complete as per building specification and direction of Engineer Incharge (Mode of measurement compacted volume)	44.08	CU.M		-
4.	Providing designation 75-A, BRICK FLAT SOLING joints filled with local sand including cost of watering, taxes, carriages and royalty all complete as per building specification and direction of Engineer Incharge	113.79	SQ.M.		-
5.	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering all materials, taxes, carriages, royalty, etc. -				
	1:3:6 (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	18.75	CU.M		-
6.	Providing and laying in position specified grade of reinforced cement concrete , including the cost of centering and shuttering, removal of shuttering, all materials, taxes, carriages, royalty, etc, finishing and and excluding the cost of Reinforcement - All work up to plinth level :				
	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)				
(A)	Foundation work	31.45	CU.M		0
(B)	Column/ R.C.C. Wall -	4.61	CU.M		0

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
(C)	Tie Beam	9.24	CU.M		0
7.	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns , pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, including cost of centering, shuttering, finishing, carriages and excluding the cost of reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	42.67	CU.M		-
8.	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, including the cost of centering, shuttering, finishing, carriages and excluding the cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).				
(A)	Beam	51.36	CU.M		-
(B)	Suspended floors, Roofs	106.19	CU.M		-
(C)	Lintel Band	1.45	CU.M		-
(D)	Lintel	5.40	CU.M		-
(E)	Staircase	11.85	CU.M		-
(F)	Chajja	1.90	CU.M		-
9.	Providing tor steel reinforcement TMT FE 500/ 550 of following dia. rods as per approved design and drawing including carriage of bars to work site, cutting, bending and binding with annealed wire with cost of wire, removal of rust placing the rods in position all complete as per building specification and direction and direction of E/I. (ONLY VALID FOR SAIL, TATA STEEL, JINDAL (PANTHER), RUNGTA STEEL)				
	TOR 8 MM DIA. TO 32 MM DIA.	38.00	MT		-
10.	Providing designation 75A brick work in C.M. (1:6) in foundation & plinth with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm. thick mortar joints, cost of screening materials raking out joints to 15mm depth , carriages, curing, taxes & royalty all complete as per building specification & direction of E/I.	18.21	CU.M		-
11.	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 20mm nominal size) with waterproofing compound (as approved) all complete.	20.59	SQ.M		-

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
12.	Providing designation 75 A BRICK WORK in CM. (1:6) in SUPERSTRUCTURE with approved quality of clean coarse & of F.M. 2.5 including providing 10mm thick mortar joints cost of screening, racking out joints to 15 mm depth, carriages, curing, taxes and royalty all complete as per building specification and direction of Engineer Incharge	197.74	CU. M		-
13.	Providing 125 mm thick REINFORCED DESIGNATION 75 A BRICK WORK in C.M. (1:4) in SUPERSTRUCTURE with approved quality of clean coarse sand of F.M. 2 to 2.5 including the cost of screening, cost of materials, racking out joints to 15 mm depth, carriage, taxes and royalty (but excluding the cost of reinforcement) all complete as per building specification and direction of Engineer Incharge .	111.26	SQ.M		-
14.	Providing 12 mm Thk. cement plaster(1:6) on inside walls with clean course sand of FM-1.5 including screening, curing with all leads & lifts of water, scaffolding taxes & royalty all complete as per building specification and direction of E/I	1417.09	SQ.M.		-
15.	Providing 6mm cement plaster(1:4) in ceiling with clean course sand of FM-1.5 including screening, curing with all leads & lifts of water, scaffolding taxes & royalty all complete as per building specification and direction of E/I	778.49	SQ.M		-
16.	Providing 12 mm thick water proof CEMENT PLASTER (1:6) on outside wall with clean coarse sand of F.M.1.5 and waterproofing compound (as per specified and approved) including cost of screening, curing making grooves with all leads and lifts of water, scaffolding, taxes and royalty all complete as per building specification and direction of E/I.	1172.70	SQ.M.		-
17.	Providing & fixing FAN HOOK of 16 mm dia M.S. bar, 1 M long bent to required size and shape, placed in position and fluid in the R.C.C. slab-beam at the time of casting all complete as per building specification and direction of E/I.	32.00	EACH		-
FLOORING WORKS					
18.	Providing & laying 15 mm to 23 mm thick KOTAH STONE SLAB FLOORING and skirting of approved size, texture and colour over 19 mm thick base of cement mortar (1:4) Cement : Coarse sand) laid over and jointed with grey cement slurry mixed with pigment of match the shade of slab including rubbing and polishing to granolithic finish with approved quality of carborandum stone including cost of curing, Nosing, moulding, taxes and royalty all complete as per building specification and direction of E/I.				

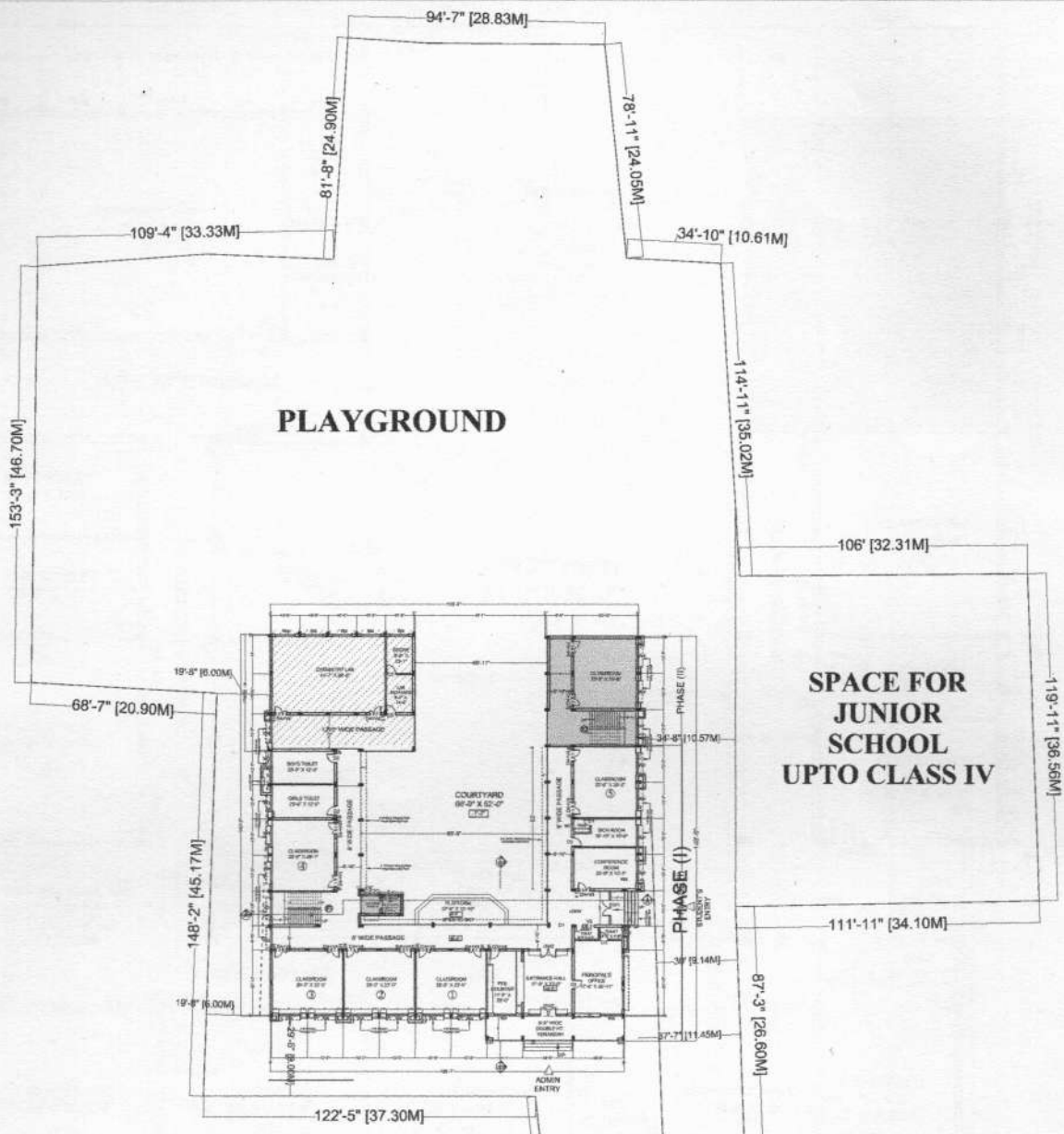
SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
	600X600 SIZE	786.13	SQM		-
19.	Providing and laying 25 mm thick kotah stone tiles in risers of steps, skirting and pillars of approved size texture and colour laid over 12 mm thick cement mortar (1:3) and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing to granolithic finish with approved quality of carborandum stone including cost of curing taxes and royalty all complete as per building specification and direction of E/I.	83.32	SQ.M		-
20.	Providing and laying 6 mm precast white GLAZED CERAMIC TILES in walls over 12mm cement mortar (1:3) and jointed with white cement slurry flush pointed with white cement including rubbing, polishing and cost of curing taxes, and royalty all complete as per building specification and direction of E/I				
	with commercial grade colour tiles.	13.71	SQM		-
21.	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
	Dark shade pigment using ordinary cement				
		22.30	SQ.M		-
	DOORS & WINDOWS WORKS				
22.	supplying , fitting and fixing good quality well dressed and well seasoned sal wood work in chaukhat in doors window ,sky light, fanlight and celevital window opening including wedge over clmps all including application of two coats of wood preservative of approved quality on the surface , building walls and lintel all complete as per building specification and direction of E/I.	0.730	CU.M		-
23.	Supplying, fitting & fixing 35 mm th. Solid core type non-decorative single leaf FLUSH DOOR SHUTTERS in doors with block board core blended with high quality phenol formal dehydres synthetic resinboth side commercial veneered of standard make with stainless steel fittings such as hinges, tower bolts , handle,cleats aldrop, door stopper & sand blocks & taxes all complete as per detail drawing building specification & direction of the E/I.	4.020	SQM		-

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
24.	Supplying, fitting & fixing 35 mm th. Solid core type non-decorative double leaf FLUSH DOOR SHUTTERS in doors with block board core blended with high quality phenol formaldehydes synthetic resin both side commercial veneered of standard make with stainless steel fittings such as hinges, tower bolts, handle, cleats, drop, door stopper & sand blocks & taxes all complete as per detail drawing building specification & direction of the E/I.	37.77	SQM		-
25.	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (overall area of door shutter to be measured):				
	Rectangular or square	0.65	SQ. M		-
26.	Supplying, fitting and fixing 20 to 25 micron anodized ammonium 2 tracks with 4 mm float glass Aluminium Windows made from standard extruded section of Hindalco / Jindal. including cost of all accessories, roller, gaskets, bushes, filling wall and window gap with silicon etc., complete as per detail drawings, specifications and direction of E/I.	113.01	SQ.M.		-
27.	Supplying, fitting & fixing M.S. GRILL made of 20 x 6 mm flat as per approved design and drawing properly fabricated with joints continuous fitted, welded and finished smooth, hoisting as per building specification and direction of E/I.	2721.00	KG.		-
28.	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer Using M.S. angles 40x40x6 mm for diagonal braces	2.28	SQ.M.		-
29.	Providing and fixing aluminium hanging floor door stoppers ISI marked anodized (anodic coating not less than grade Ac 10 as per I.S. 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. Twin rubber stopper	30.00	EACH		-
WATER PROOFING TREATMENT					
30.	Providing and laying average 1.5" th. cement concrete over roof top with cement concrete (1:1:2) and waterproofing compound (as specified by manufacturer) laid in slope, as per direction of E/I.	345.00	SQ.M.		-

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
31.	Providing two coat of snowcem of approved shade and make over a coat of cement of primer on new surface including preparing the plastered surface smooth with sand paper, soaping, curing and taxes all complete as per building specification and direction of E/I.	2195.58	SQ.M		-
32.	Providing two coats of plastic emulsion paint of approved make over a coat of cement primer over new surface including preparing plastered surface by rubbing smooth with pumice stone or fine sand paper, applying putty wherever required, scaffolding, washing of floor and taxes all complete as per building specification and direction of E/I.	1172.70	SQ.M		-
33.	Providing two coats of SYNTHETIC ENAMEL PAINT of approved shade and make over new WOODEN surface including cleaning the surface after removing dirt, scales, grease and sand papering, including cost of scaffolding etc. all complete as per building specification direction of E/I.	104.48	SQ.M		-
34.	Providing Primer one coat of read lead paint of approved make over new STEEL SURFACE preparing the surface after cleaning, removing rust, dirt, scales, smokes and grease and cleaning the surface thoroughly including cost of scaffolding and taxes all complete as per building specification and direction of E/I.	126.39	SQ.M		-
35.	Providing 2 coats of SYNTHETIC ENAMEL PAINT of approved shade and make over STEEL SURFACE grills & railings including cleaning the surface thoroughly scaffolding and taxes all complete as per building specification and direction of E/I.	131.18	SQ.M		-
MISCELLANEOUS WORK					
36.	Providing and fixing 0.90m stainless steel (Grade 304) railing made of hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.	24.384	METRE		-
37.	Providing & fixing on wall face unplasticised - Rigid P.V.C. rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion . Single socketed pipes. 110 mm dia	101.25	M		-

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
38.	Providing & fixing on wall face unplasticised -P.V.C. moude fittings / accessories for unplasticised - Rigid P.V.C. rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion .				
A)	Coupler - 110 mm	9.00	EACH		-
B)	SHOE - 110MM	9.00	EACH		-
C)	BEND - 110 MM	27.00	EACH		0.00
39.	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 MM	60.00	EACH		-
40.	Providing 250 mm wide BRICK DRAIN in cement mortar (1:6) with avarage 150mm. Clear depth and 250 mm apron including cost of earthwork involved with 75m cement concrete (1:4:8) over one brick designation 75A, flat soling in proper grade and slope at the base , the drain dully plastered in C.M.(1:3) with puning over exposed surface all complete as per building specification and direction of E/I.	100.00	M		-
41.	Structural steel work in single section, fixed with or without connecting plate,including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (for Mumty Roofing)	860.00	K.G.		-
42.	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (Approved Brand - Tata Bluescope, jindal)	41.06	SQ.M		-
ELECTRICAL WORKS					

SL. No.	DESCRIPTION	TOTAL QTY.	UNIT	RATE	AMOUNT
	WIRING POINTS, CIRCUIT WIRING, SUBMAINS, DISTRIBUTION BOARD & MCB's ETC.				
43.	Point wiring in pvc conduit , with modular type switch:- Wiring for light point/fan point/exhaust fan/call bell point with 1.5 sqmm PVC insulated copper conductor cable in surface / recessed PVC conduit with modular type switch,modular plate,suitable size GI box etc. as required	121.00	Each		-
44.	Twin control point wiring in pvc conduit with modular type switch:- Wiring for Twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit, with 2way modular switch ,modular plate, suitable GI box etc. as required.	3.00	Each		-
45.	Power plug wiring in pvc conduit (2x4 sq mm): Wiring for light/ power plug plug with 2 X 4 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit along with 1 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	350.00	M		-
46.	Circuit / sub main wiring in pvc conduit: Wiring for submain wiring with the following size of PVC insulated, copper conductor single core cable in surface / recessed PVC conduit as required:				
a	2x1.5 sq.mm.+1x 1.5 sq mm(for toilet switch board +6A socket)		M		-
b	2x2.5 sq.mm.+1x 2.5 sq mm(for switch board)	450.00	M		-
c	2x6 sq.mm.+1x 6 sq mm(Sub-Mains DB's)	120.00	M		-
47.	S/F modular type switch / socket :- Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connection but excluding modular plate etc. as reqd.				
a	5/6 amps switch	14.00	Each		-
b	5/6 amps socket outlet	14.00	Each		-
48.	S/F modular type electronic fan regulator :- Supplying and fixing stepped type electronic fan regulator on the existing modular plate & switch box including connection but exluding modular plateetc.as required..	32.00	Each		-
49.	S/F modular type blanking plate:- Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20.00	Each		-
50.	S/F light plug point with modular type accessories :- Supplying and fixing suitable size GI box with modular plate cover in the front on surface or in recess including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps. modular type switch, connections painting etc. as required. (For light plugs).	11.00	Each		-
51.	S/F power plug point with modular type accessories :- Supplying and fixing suitable size GI box with modular plate cover in the front on surface or in recess including providing and fixing 6 pin 15/16 amps socket outlet and 15/16 amps. modular type switch, connections painting etc. as required. (For power plugs).	11.00	Each		-



SPACE FOR JUNIOR SCHOOL UPTO CLASS IV

NO. OF CLASSROOMS : PROVIDED	
GROUND FLOOR	= 5 NOS.
FIRST FLOOR	= 6 NOS.
SECOND FLOOR	= 4 NOS.
THIRD FLOOR	= 3 NOS.
TOTAL	=18 NOS.
1. MULTIPURPOSE HALL	
2. COMPUTER LAB	

PLOT AREA = 1,03,626 SQFT (2.38 ACRES)

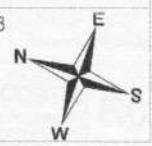
SITE PLAN

PROPOSED D.A.V PUBLIC SCHOOL AT SILLI , RANCHI

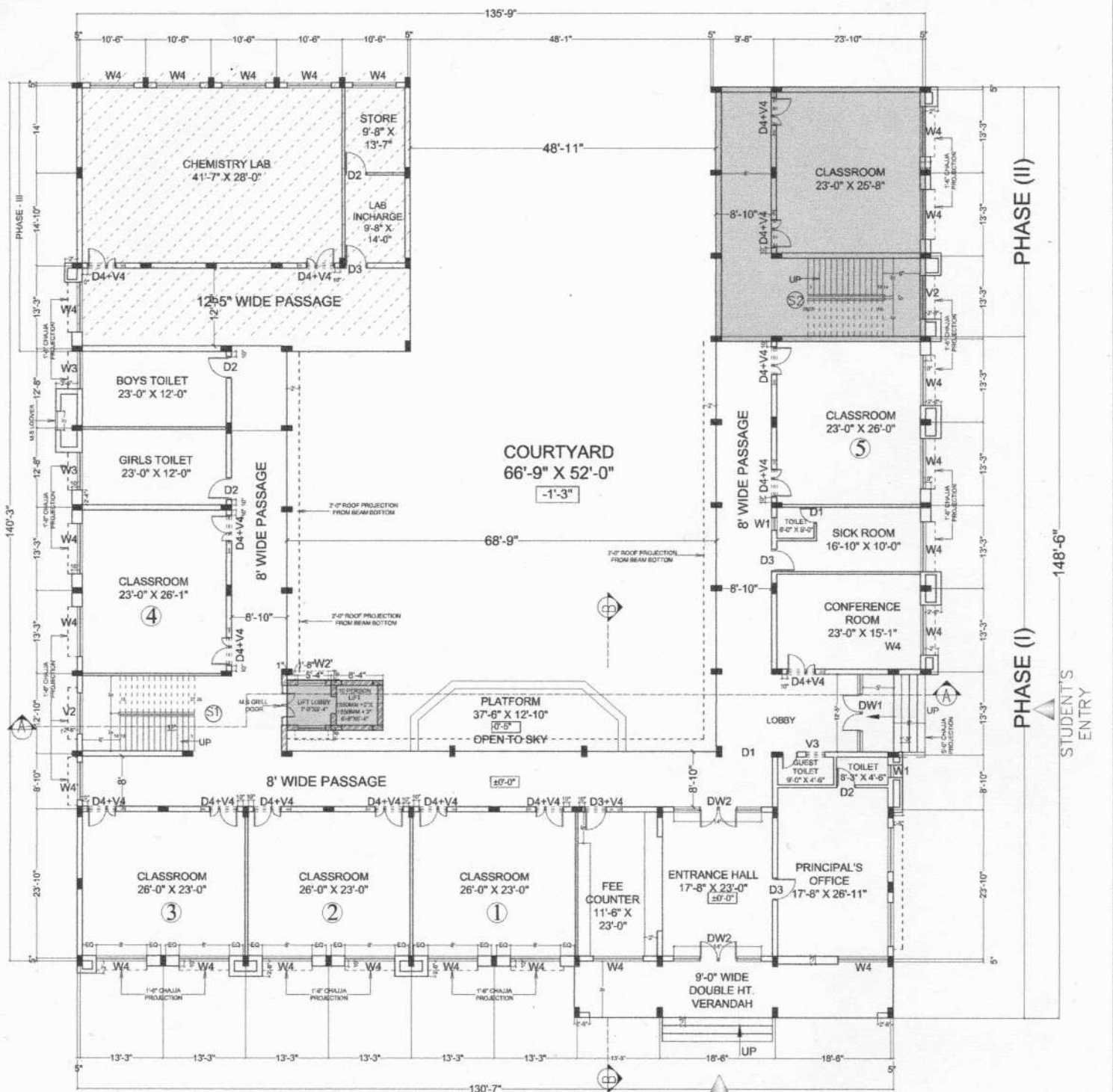
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS
ASHOK NAGAR ROAD, RANCHI
PHONE 0651-2246046

DATE-05-07-18
SHEET No: - 1A

G+3



TO GOLA
TO PURULIA ROAD



GROUND FLOOR PLAN

ADMIN ENTRY

G+3

SCHEDULE OF DOORS, WINDOWS & VENTILATORS

TYPE	WIDTH	HEIGHT	SILL
D1	2'-6"	7'-0"	0'-0"
D2	3'-0"	7'-0"	0'-0"
D3	3'-6"	7'-0"	0'-0"
D4	4'-6"	7'-0"	0'-0"
DW1	12'-5"	8'-6"	0'-0"
DW2	14'-0"	8'-6"	0'-0"
W1	2'-0"	4'-0"	4'-6"
W2	4'-0"	5'-6"	3'-0"
W2'	4'-6"	5'-6"	3'-0"
W3	5'-0"	4'-0"	4'-6"
W3'	5'-0"	5'-6"	3'-0"
W4	8'-0"	5'-6"	3'-0"
W4'	8'-0"	7'-6"	1'-0"
V1	3'-0"	UP TO BEAM	3'-0"
V2	7'-0"	UP TO BEAM	3'-0"
V3	3'-0"	UP TO BEAM	2'-0"
V4	6'-0"	UP TO BEAM	2'-0"

FLOOR TO FLOOR HT. = 11'-6"

STAIR DATA

S1 WIDTH - 6'-0"
 RISERS-26 - 4.93"
 TREADS-24 - 11"
 S2 WIDTH - 8'-0"
 RISERS-28 - 4.928"
 TREADS-22 - 11"

**PROPOSED COVERED AREA PHASE - (II)
(INCLUDING 10 PASS. LIFT)**

GROUND FLOOR	=1,580 S.Q.F.T
FIRST FLOOR	=3,700 S.Q.F.T
SECOND FLOOR	=3,700 S.Q.F.T
TOTAL	=24,691 S.Q.F.T

COVERED AREAS PHASE - (I)

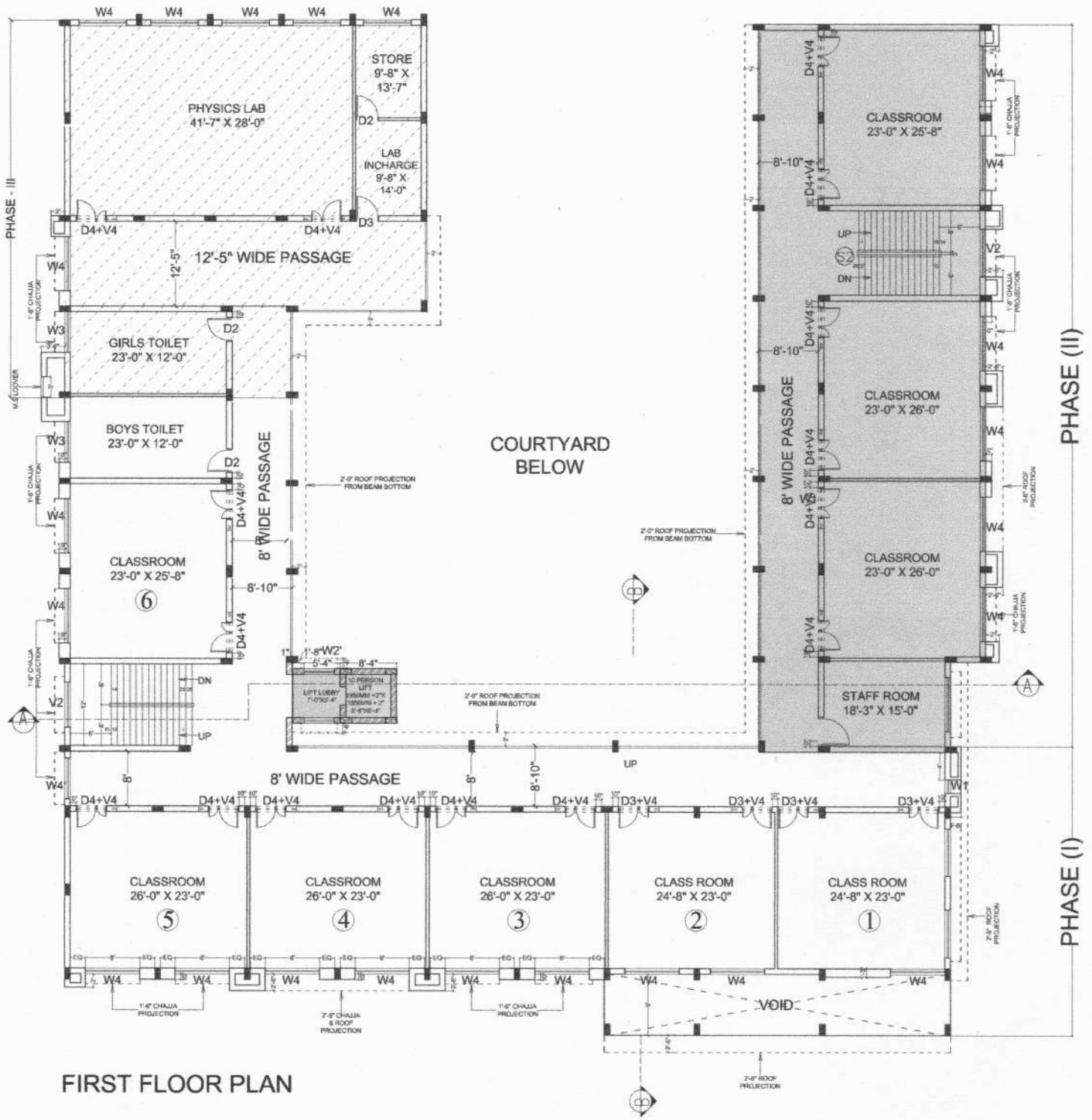
GROUND FLOOR	=9549 S.Q.F.T
FIRST FLOOR	=7341 S.Q.F.T
SECOND FLOOR	=7401 S.Q.F.T
THIRD FLOOR	=400 S.Q.F.T
TOTAL	=24691 S.Q.F.T

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 2. DO NOT SCALE THE DRAWING. READ ONLY.

PROPOSED D.A.V PUBLIC SCHOOL
AT SILLI, RANCHI

SHEET TITLE:	
GROUND FLOOR	
DRG. NO. -	DATE: 19-12-2024
SCALE: 1/8"	SHEET NO. - 1
DEALT BY:-	DRAWN BY:-
RITU CHADDA	ISHTIYAQUE KHAN
RAJIV CHADDA	REV. ON DATE:-
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2246046	
R0	





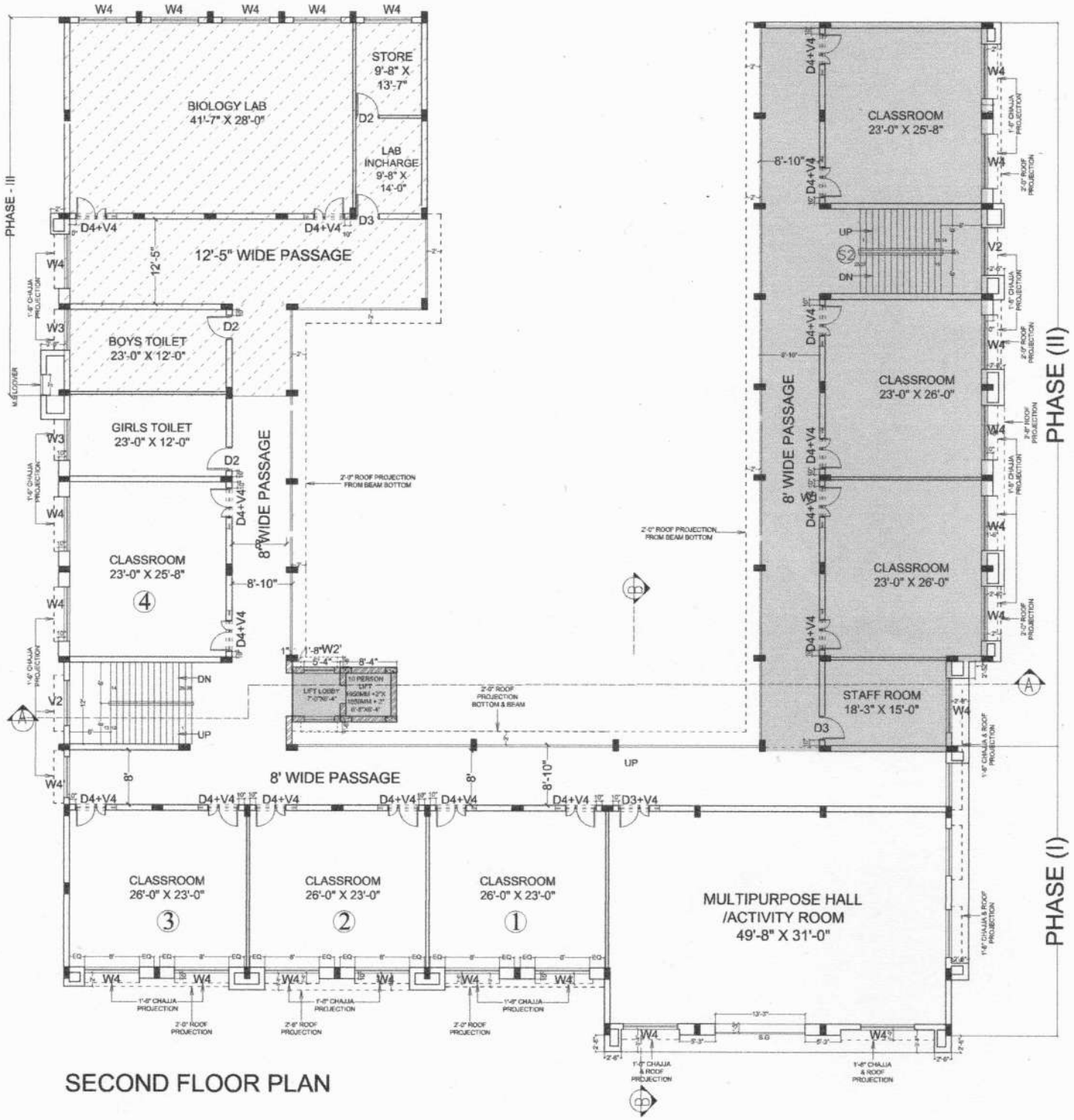
FIRST FLOOR PLAN

G+3

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PROPOSED D.A.V PUBLIC SCHOOL AT SILLI, RANCHI	
SHEET TITLE:	FIRST FLOOR PLAN
DATE:-	19-12-2024
DRG. NO. -	SHEET NO. : 2
SCALE:-	1"=
DEALT BY:-	RITU CHADDA
DRAWN BY:-	ISHTIYAQUE KHAN
REV. ON DATE:-	
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2248046	
R0	



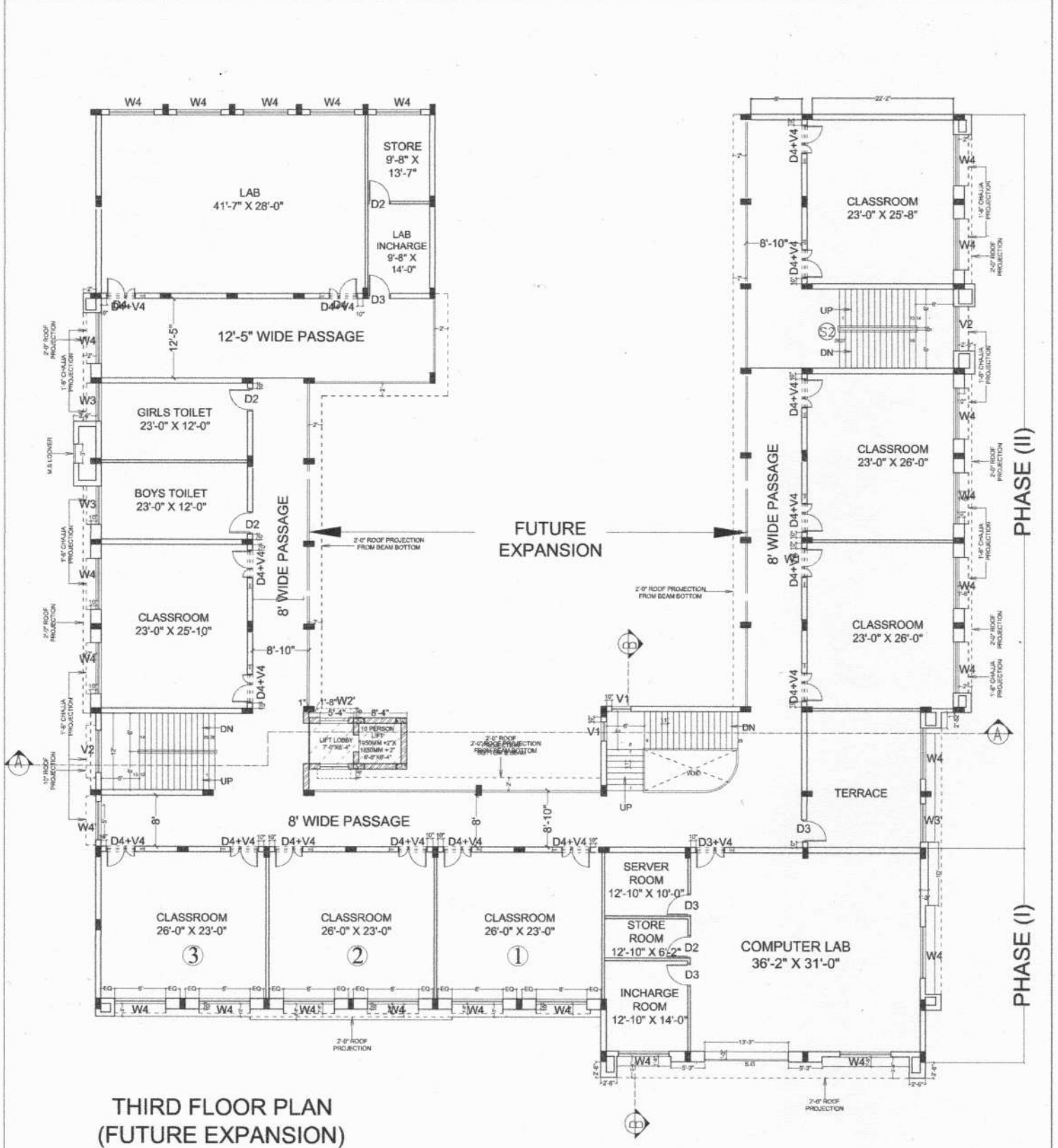


G+3

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PROPOSED D.A.V PUBLIC SCHOOL AT SILLI, RANCHI	
SHEET TITLE: SECOND FLOOR	
DATE: 19-12-2024	SHEET NO.: 3
DRG. NO. - SCALE: 1"=	DRAWN BY:- ISHTIYAQUE KHAN
DEALT BY:- RITU CHADDA	REV. ON DATE:-
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2246046	
R0	





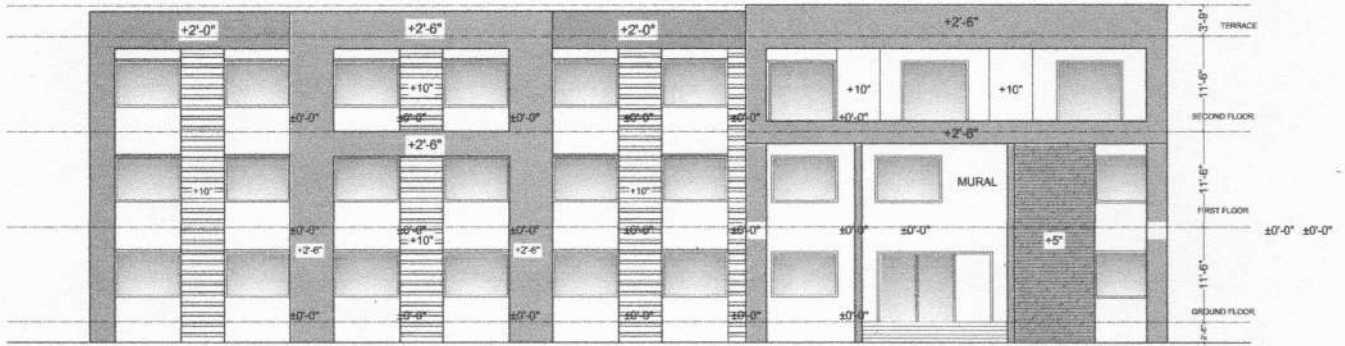
THIRD FLOOR PLAN
(FUTURE EXPANSION)

G+3

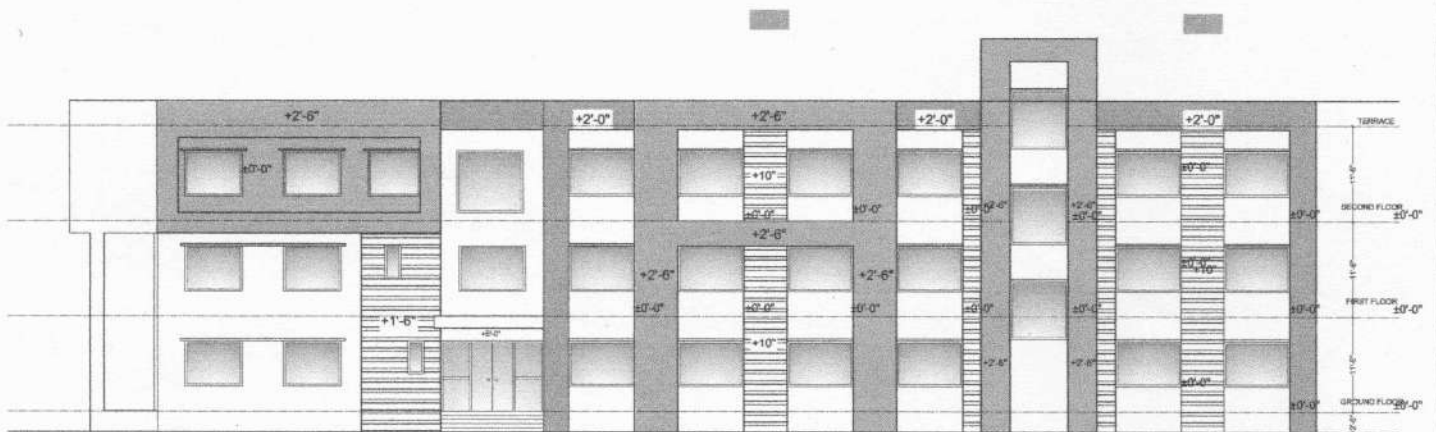
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PROPOSED D.A.V PUBLIC SCHOOL AT SILLI, RANCHI	
SHEET TITLE: THIRD FLOOR	
DATE: 19-12-2024	SHEET NO. - 4
DRG. NO. - SCALE: 1"=8'	DRAWN BY:- ISHTIYAQUE KHAN
DEALT BY:- RITU CHADDA RAJIV CHADDA	REV. ON DATE:-
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2246046	
R0	

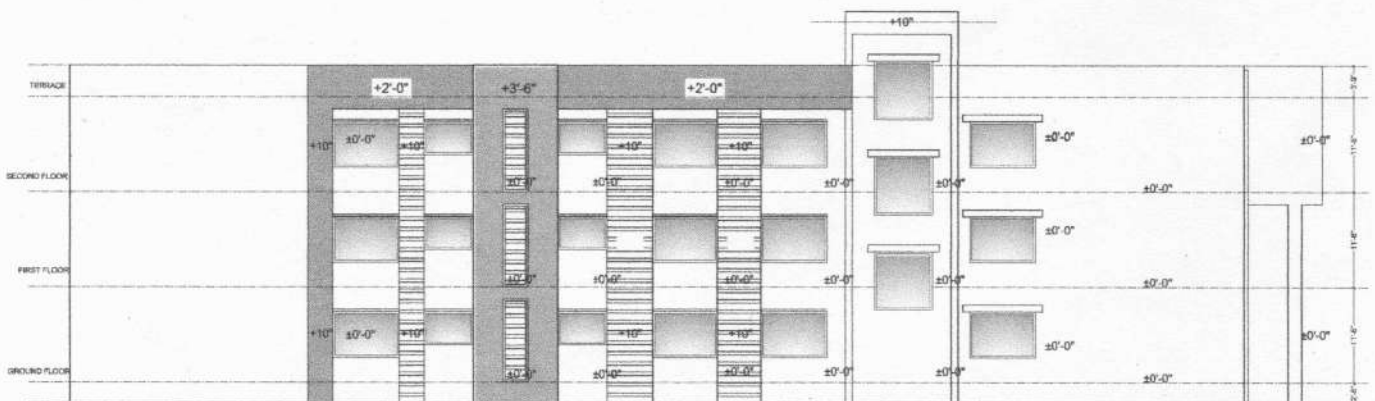




FRONT ELEVATION



RIGHT SIDE ELEVATION

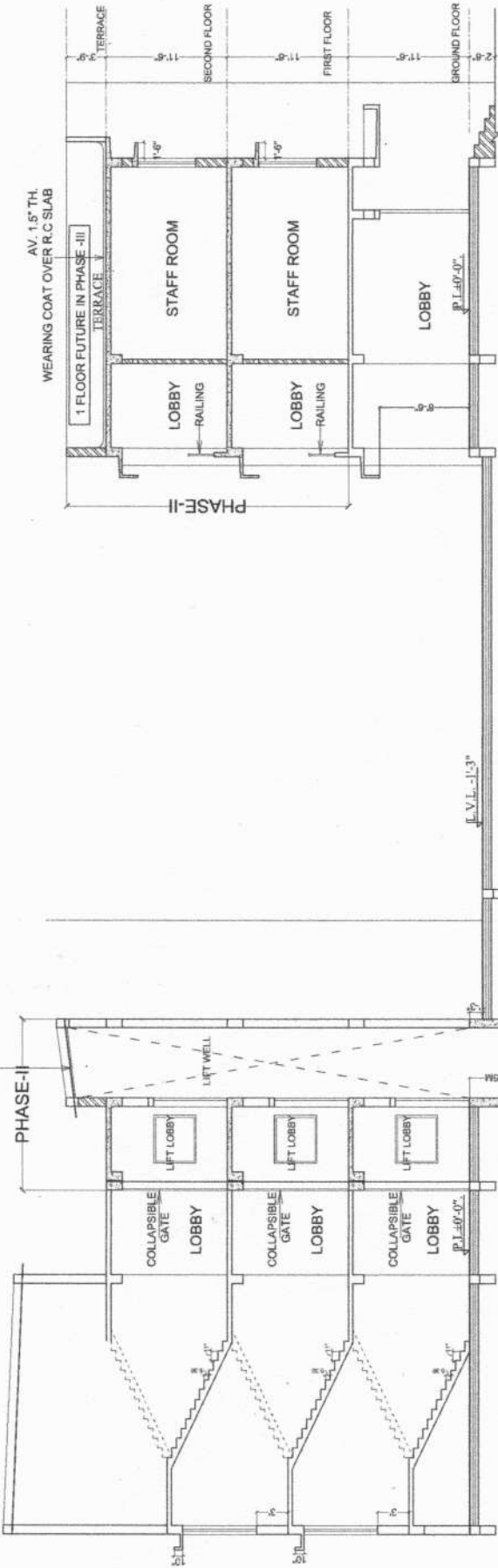


LEFT SIDE ELEVATION

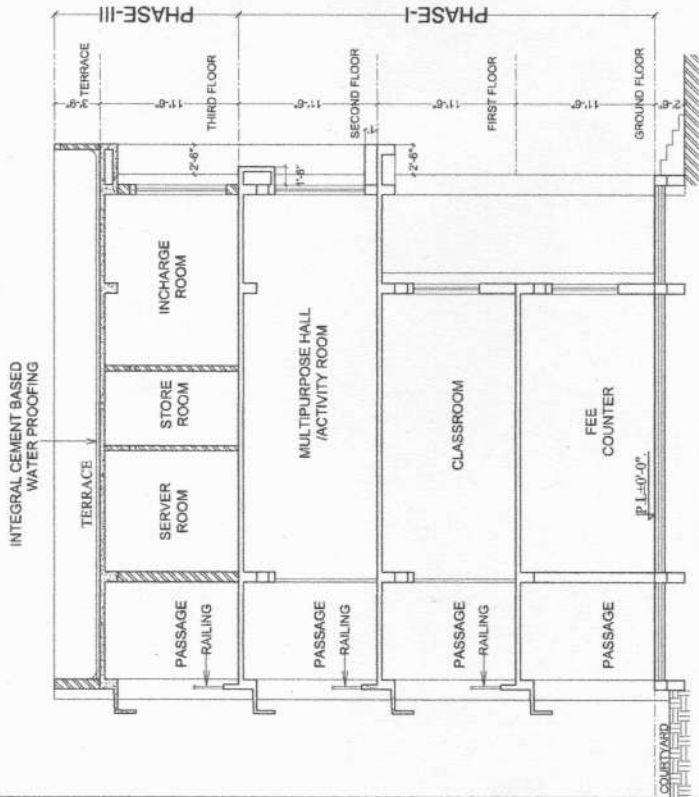
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PROPOSED D.A.V PUBLIC SCHOOL AT SILLU, RANCHI	
SHEET TITLE: ELEVATION	
DATE:-19-12-2024	
DRG. NO. - SCALE-1"=	SHEET NO. : 5
DEALT BY:- RITU CHADDA RAJIV CHADDA	DRAWN BY:- ISHTIYAQUE KHAN REV. ON DATE:-
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2246046	
R0	

M.S SHEET ROOFING OVER M.S ANGLE



SECTION A-A



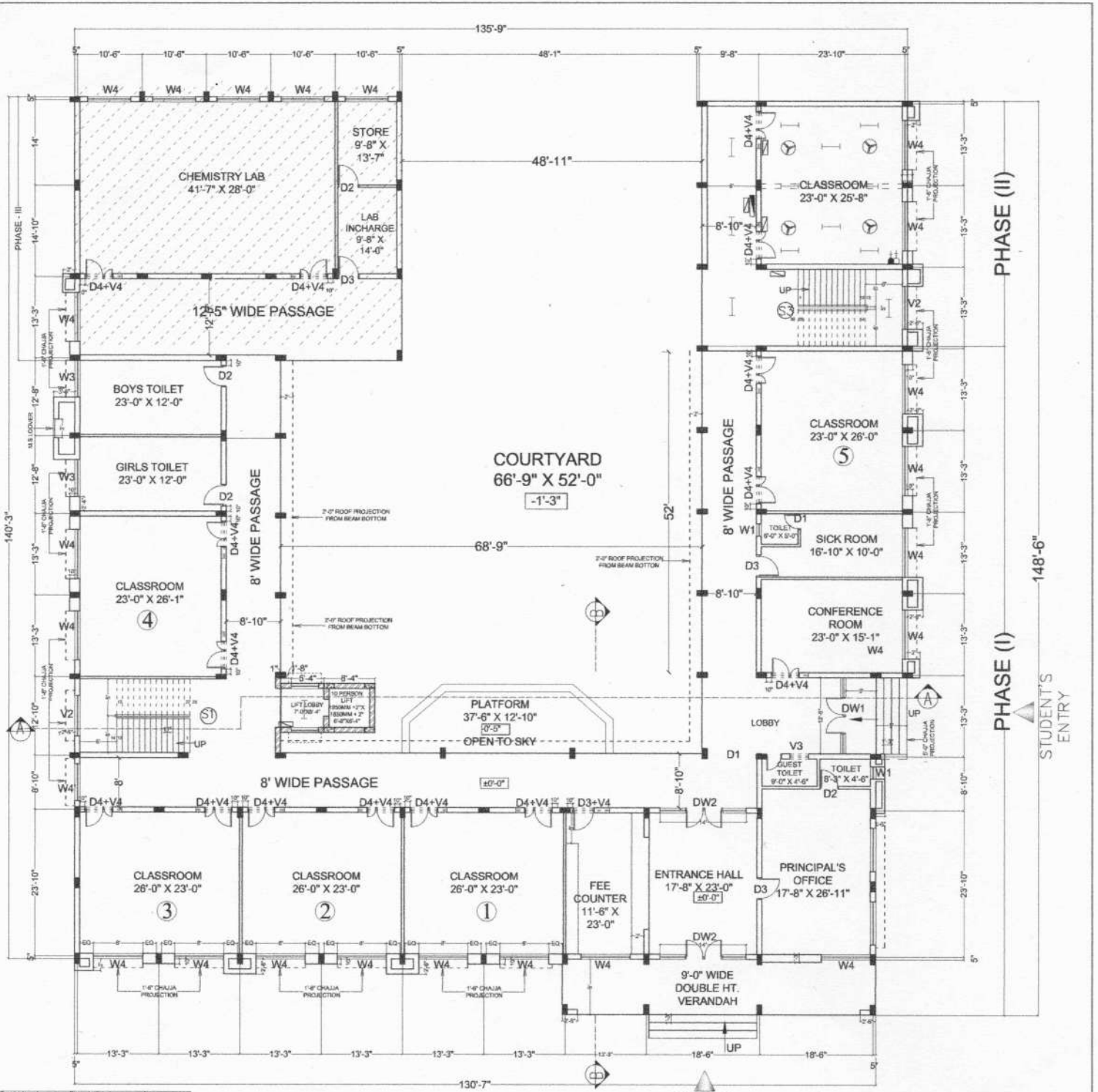
SECTION B-B

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PROPOSED D.A.V PUBLIC SCHOOL
 AT SILLI, RANCHI

SHEET TITLE:	SECTION
DATE:-18-12-2024	
DRG. NO. -	SHEET NO. : 6
SCALE: 1/4" = 1'-0"	DRAWN BY:-
DEALT BY:-	RITU CHADDA
	ISHTYAJUQUE KHAN
	RAJIV CHADDA
	REV. ON DATE:-

CHADDA & ASSOCIATES R0
 ARCHITECTS & URBAN PLANNERS
 ASHOK NAGAR ROAD, RANCHI
 PHONE 0651-2246046



Symbol	Description	Quantity
[Symbol]	Switch board	1350
[Symbol]	250V Switch board	600
[Symbol]	6A 5 Pin Switch Socket Outlet	300
[Symbol]	16A Switch Socket Outlet	300
[Symbol]	16A Socket Only	1950
[Symbol]	25A 3 Pin Socket with up MCB	2550
[Symbol]	T.V. Signal Cable outlet	800
[Symbol]	Bell Push	1350
[Symbol]	Bell	2550
[Symbol]	Phone Cable Outlet	2400
[Symbol]	Internet Point	600
[Symbol]	Wall points	2550
[Symbol]	1x50W Led Batten Type Luminaire	
[Symbol]	Wall fan Point	
[Symbol]	1200 MM Ceiling fan Point	
[Symbol]	1400 mm Ceiling fan Point	
[Symbol]	Distribution Board	
[Symbol]	Bulk Head @60° F.L.H.	
[Symbol]	30w LED Panel Light	
[Symbol]	Pathway light	
[Symbol]	Recess / Surface light 18/20w	
[Symbol]	Recess / Surface light 10/12w	
[Symbol]	1 x 50 W LED Hanging Light	
[Symbol]	1 x 40 W LED Light (@120°)	
[Symbol]	Foot Lamp	300mm
[Symbol]	Exhaust fan Point	

GROUND FLOOR PLAN (ELECTRICAL LAYOUT)



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PROPOSED D.A.V PUBLIC SCHOOL
 AT SILLI, RANCHI

SHEET TITLE: ELECT. GROUND FLOOR

DATE: 19-12-2024

DRG. NO. - SHEET NO. - E1

SCALE: 1"=

DEALT BY: RITU CHADDA

DRAWN BY: ISHTIYAQUE KHAN

REV. ON DATE: RAIJU CHADDA

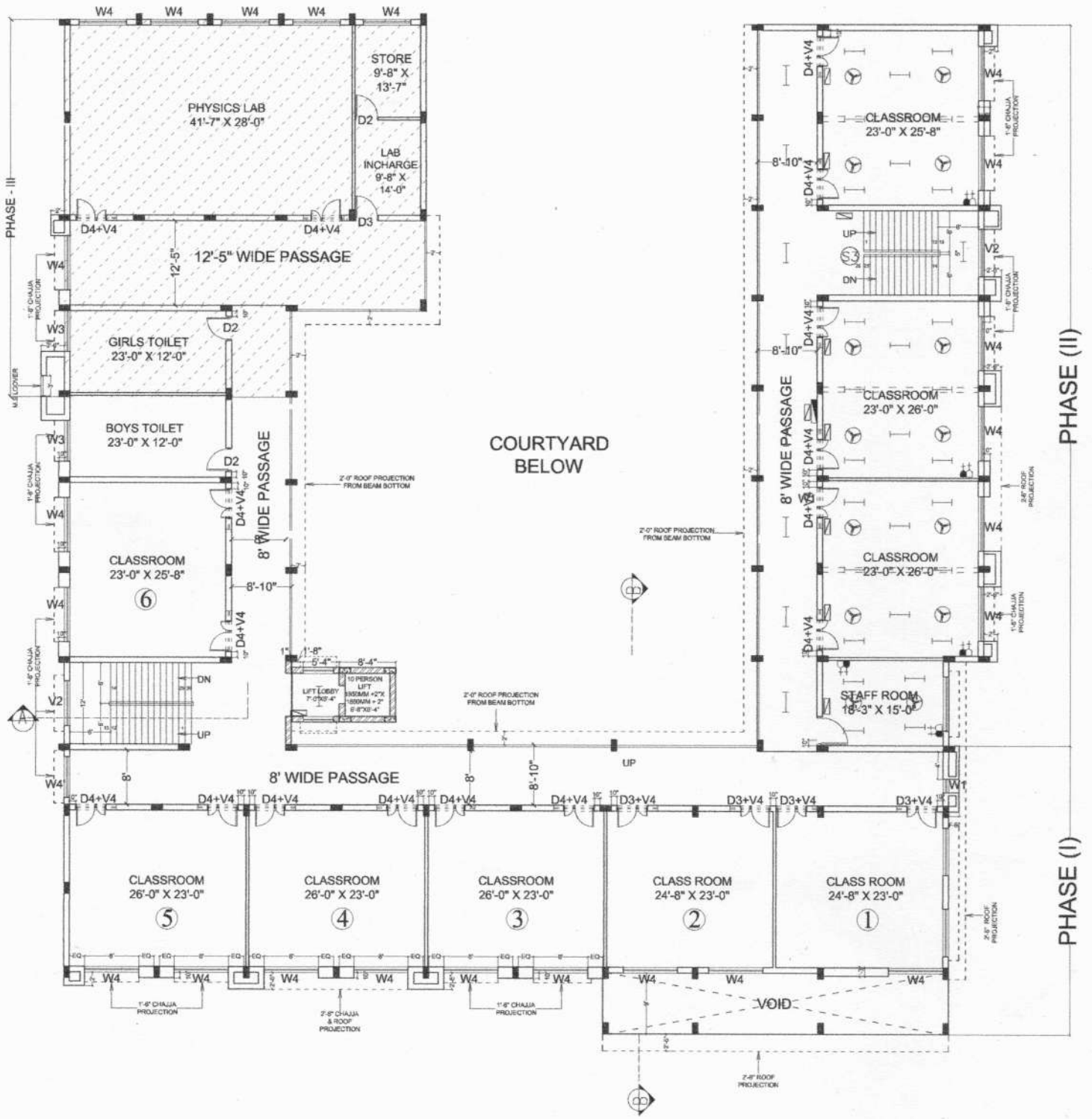
CHADDA & ASSOCIATES
 ARCHITECTS & URBAN PLANNERS
 ASHOK NAGAR ROAD, RANCHI
 PHONE 0651-2246046

R0

G+3

STUDENT'S ENTRY

ADMIN ENTRY



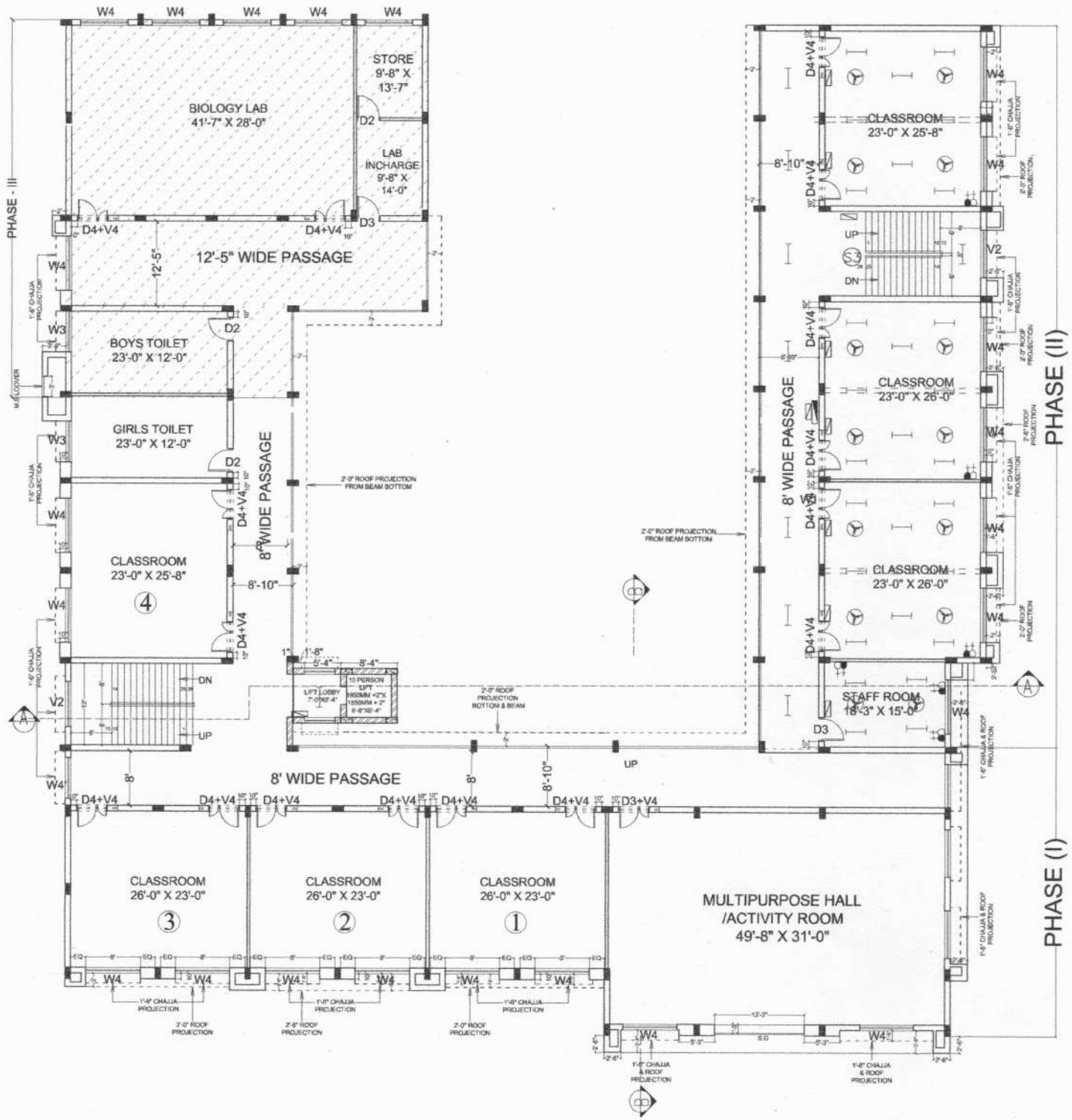
FIRST FLOOR PLAN (ELECTRICAL LAYOUT)

G+3

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PROPOSED D A V PUBLIC SCHOOL AT SILLI, RANCHI	
SHEET TITLE: ELECTRIC FIRST FLOOR PLAN	
DRG. NO. - SCALE-1"=1'	DATE:-19-12-2024
DEALT BY:- RITU CHADDA RAJIV CHADDA	SHEET NO. :- E2
DRAWN BY:- ISHTIYAQUE KHAN	REV. ON DATE:-
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI - PHONE 0851-2246046	R0





SECOND FLOOR PLAN (ELECTRICAL LAYOUT)

G+3

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PROPOSED D.A.V PUBLIC SCHOOL AT SILLU, RANCHI	
SHEET TITLE: ELECT. SECOND FLOOR	
DRG. NO. -	DATE: 19-12-2024
SCALE: 1"=	SHEET NO. - E3
DEALT BY:-	DRAWN BY:-
RITU CHADDA	ISHTIYAQUE KHAN
CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS ASHOK NAGAR ROAD, RANCHI PHONE 0651-2246046	REV. ON DATE:



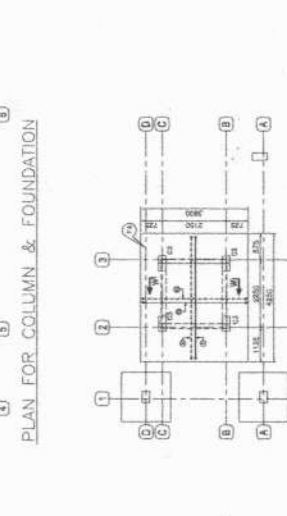
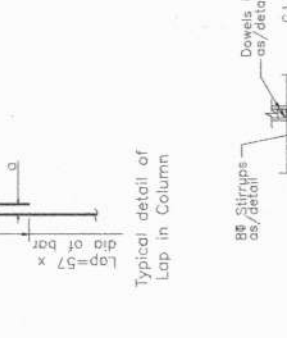
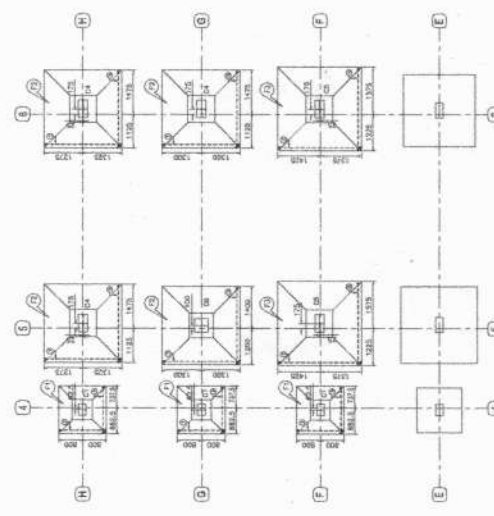
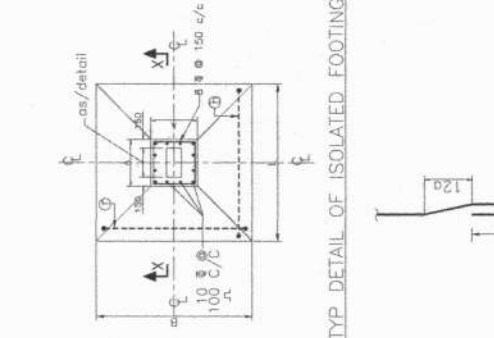
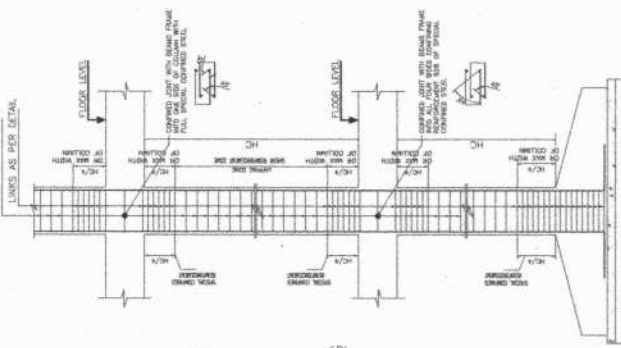
PHASE (II)

PHASE (I)

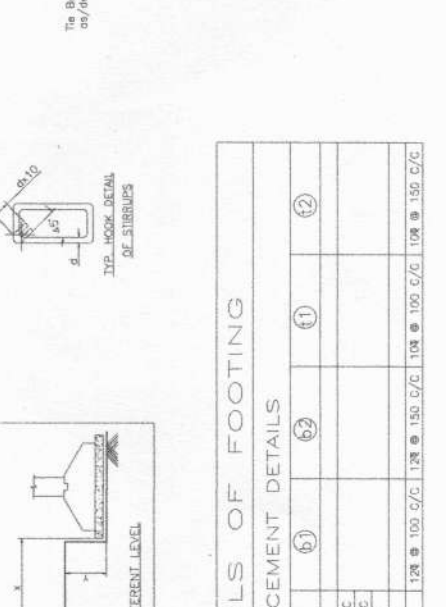
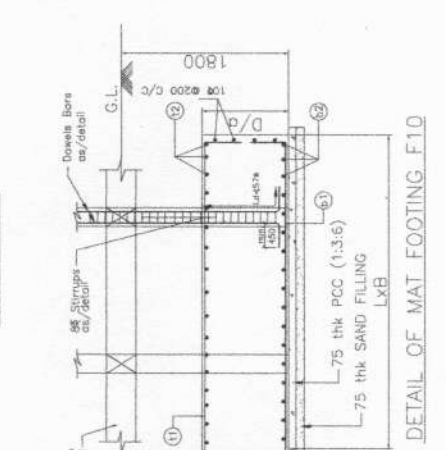
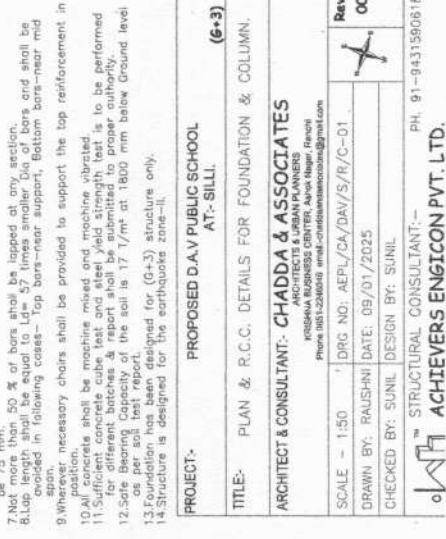
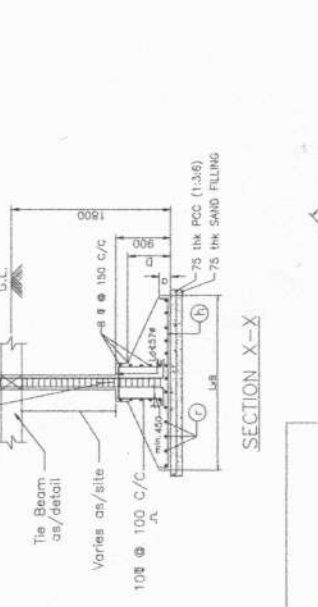
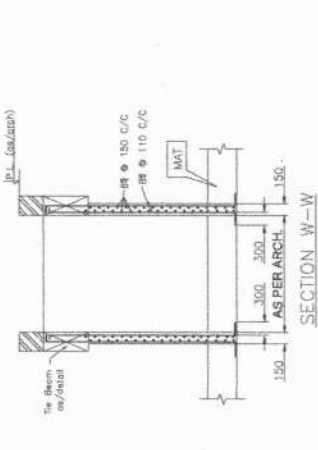
PHASE - III

R. C. C. DETAILS FOR COLUMNS

COLUMN MARKING	C1	C2	C3	C4	C5	C6
DETAILS OF RING						
3rd Floor	3 legged 8 Φ Φ 100/150 c/c	4 legged 8 Φ Φ 100/150 c/c	4 legged 8 Φ Φ 100/150 c/c	5 legged 8 Φ Φ 100/150 c/c	5 legged 8 Φ Φ 100/150 c/c	5 legged 8 Φ Φ 100/150 c/c
2nd Floor						
1st Floor						
FOUNDATION						
SIZE (MM)	375x250	500x250	500x250	600x300	600x300	450x450



- NOTES:-
1. Read this drawing along with architectural & structural drawings.
 2. Do not scale, follow written dimensions only, co-ordinated with relevant architectural & structural drawing & in case of any ambiguity the matter shall be brought to the notice of the consultant before starting the work.
 3. All reinforcement shall be high strength deformed mild steel bars as per IS 1786-1985.
 4. Grade of concrete shall be M-20 & shall be conforming to IS-456-2000.
 5. Reinforcement shall be high strength deformed mild steel bars as per IS 1786-1985.
 6. Clear cover to main reinforcement shall be 50 mm for footing, 40 mm for column, 25 mm for beam, 20 mm for slab and side cover of footing shall be 25 mm.
 7. Not more than 50% of bars shall be lapped at any section.
 8. Lap length shall be equal to $L_d = 57$ times smaller Dia of bars and shall be avoided in following cases:- Top bars-near support, Bottom bars-near mid span.
 9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
 10. All concrete shall be machine mixed and machine vibrated.
 11. Surface work shall be done and shall be kept moist for curing.
 12. Side Bearing Capacity of the soil is 17 T/m² at 1800 mm below Ground level as per soil test report.
 13. Foundation has been designed for (G+3) structure only.
 14. Structure is designed for the earthquake zone-II.



FOOTING MARKS	L	B	D	a	(h)	(c)	(b)	(1)	(2)
ISOLATED FOOTING									
F1	1600 x 1600	350	175	108 Φ 125 C/C	108 Φ 125 C/C	108 Φ 100 C/C	128 Φ 100 C/C	128 Φ 80 C/C	128 Φ 150 C/C
F2	2600 x 2600	550	275	128 Φ 100 C/C	128 Φ 100 C/C	128 Φ 100 C/C	128 Φ 100 C/C	128 Φ 80 C/C	128 Φ 150 C/C
F3	2600 x 2600	670	300	128 Φ 80 C/C	128 Φ 80 C/C	128 Φ 80 C/C	128 Φ 80 C/C	128 Φ 100 C/C	128 Φ 150 C/C
MAT FOOTING									
F4	4250 x 3500	950	550	128 Φ 100 C/C	128 Φ 150 C/C	108 Φ 100 C/C	108 Φ 100 C/C	108 Φ 150 C/C	108 Φ 150 C/C

R. C. C. DETAILS OF FOOTING REINFORCEMENT DETAILS

PROJECT:- PROPOSED D.A.V PUBLIC SCHOOL AT-SILLI. (G+3)

TITLE:- PLAN & R.C.C. DETAILS FOR FOUNDATION & COLUMN.

ARCHITECT & CONSULTANT:- CHADDA & ASSOCIATES ARCHITECTS & URBAN PLANNERS

KISHOREA BUSINESS CENTER, ANAP Nagar, Ranchi Phone: 0831-2260811 Email: chaddaassociates@gmail.com

SCALE - 1:50

DRAWN BY: RAUSHI DATE: 09/01/2025

CHECKED BY: SUNIL DESIGN BY: SUNIL

Rev: 00

PH. 91-9431590618

ACHIEVERS ENGINEERING CONSULTANT:-

ACHIEVERS ENGINEERING PVT. LTD.

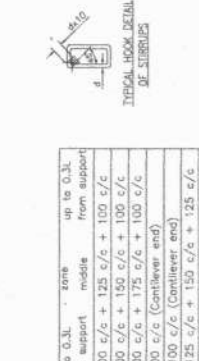
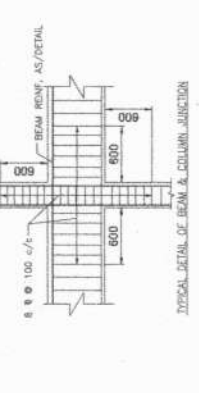
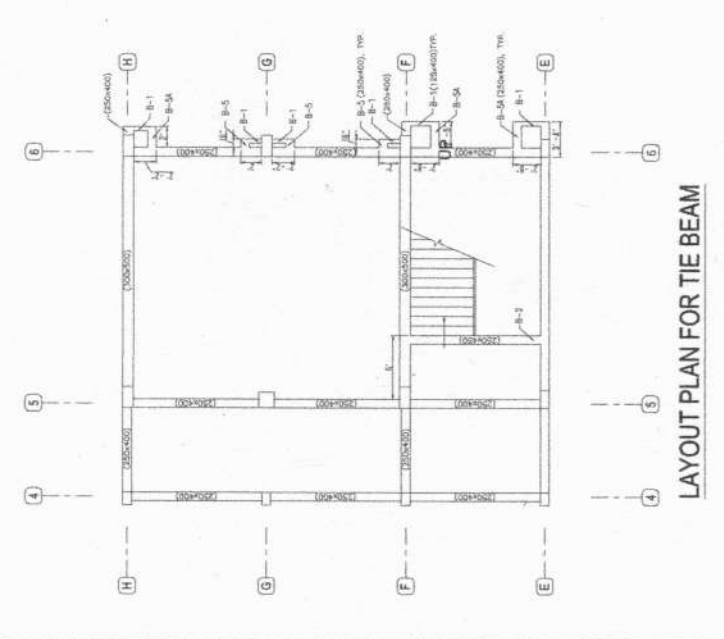
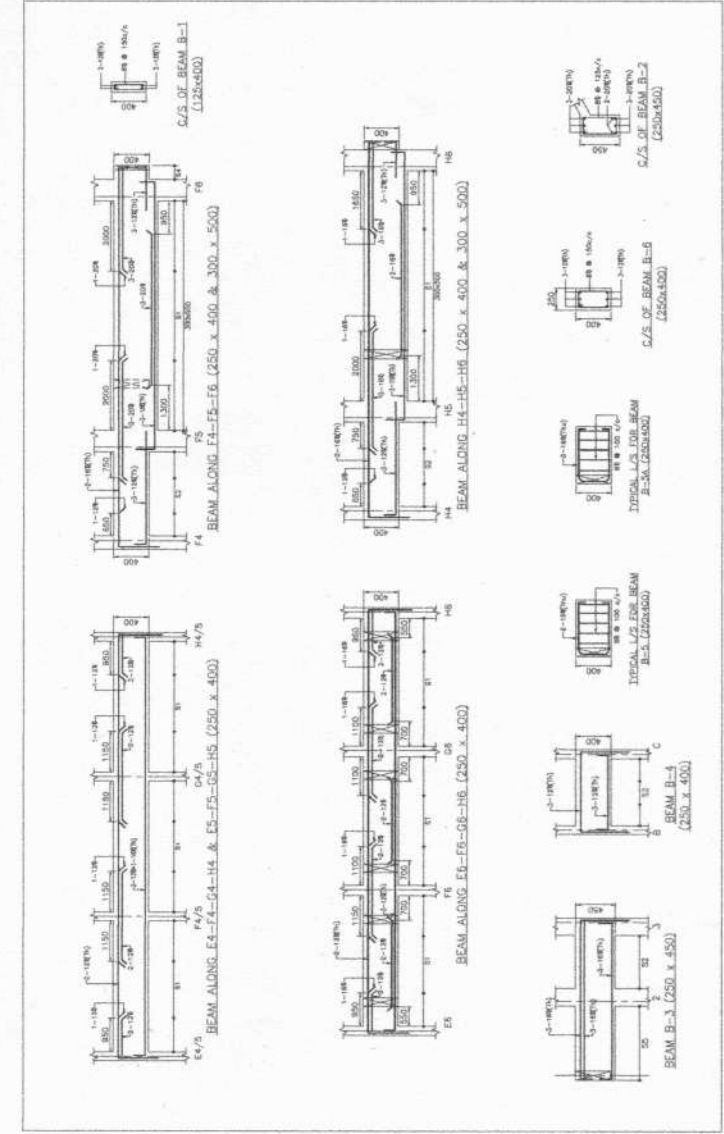
R.C.C. DETAILS OF LINTEL

Sl. No.	CLASS & BEAM NO.	SPAN	10" THICK WALL	5" THICK WALL	10" THICK WALL
1.	3'-0"	10"			
2.	4'-0"	10"			
3.	5'-0"	10"			
4.	6'-0"	10"			
5.	7'-0"	10"			
6.	8'-0"	10"			

R.C.C. DETAILS OF LINTEL BAND

Sl. No.	CLASS & BEAM NO.	SPAN	10" THICK WALL
1.	3'-0"	10"	

NOTES:- (1) Provide same rod as bottom on top for ARCH.
(2) R.C.C. MIX - 1: 1.5: 3, M-20.

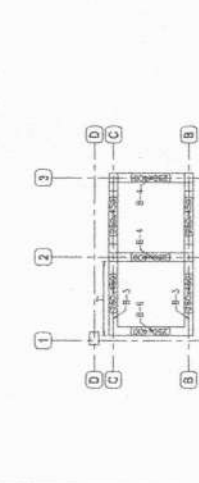
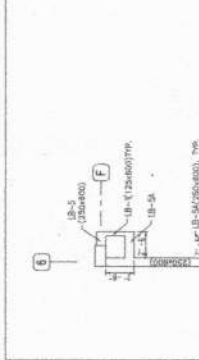


NOTES:-

- Read this drawing along with architectural & structural drawings.
- Do not scale, follow written dimensions only.
- All dimensions & levels shall be checked & co-related with relevant architectural & structural drawing & in case of any ambiguity the matter shall be brought to the attention of the architect.
- Grade of concrete shall be M-20 & shall conforming to IS-456-2000.
- Reinforcement steel shall be High Strength Deformed TMF bars as per IS-1786-1985 and having a minimum yield strength of 500 N/mm² and having elongation more than 4.5%.
- Column, 25 mm for slab and side cover of footing shall be 75 mm.
- Not more than 50% of bars shall be lapped at any section.
- Slab reinforcement to be provided to lift beam near support, bottom bars near mid span.
- Wherever necessary chairs shall be provided to support the top reinforcement in slab.
- All concrete shall be machine mixed and machine vibrated.
- Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
- Safe Bearing Capacity of the soil is 17 T/m² at 1800 mm below Ground level.
- Foundation has been designed for (G+3) structure only.
- Structure is designed for the earthquake zone-II.

Sl. No.	Bar	Zone	up to O.L. from support	middle zone	down to O.L. from support
S1	8 @ 100 c/c	125 c/c + 100 c/c	100 c/c + 125 c/c	100 c/c	100 c/c
S2	8 @ 100 c/c	150 c/c + 100 c/c	100 c/c + 150 c/c	100 c/c	100 c/c
S3	8 @ 100 c/c	175 c/c + 100 c/c	100 c/c + 175 c/c	100 c/c	100 c/c
S4	8 @ 100 c/c	(Contiever end)			
S5	10 @ 100 c/c	(Contiever end)			
S6	10 @ 125 c/c + 150 c/c + 125 c/c				

Symbol Spacing of shear reinforcement (2 legs)



PROJECT:- PROPOSED D.A.V PUBLIC SCHOOL AT- SILLI.

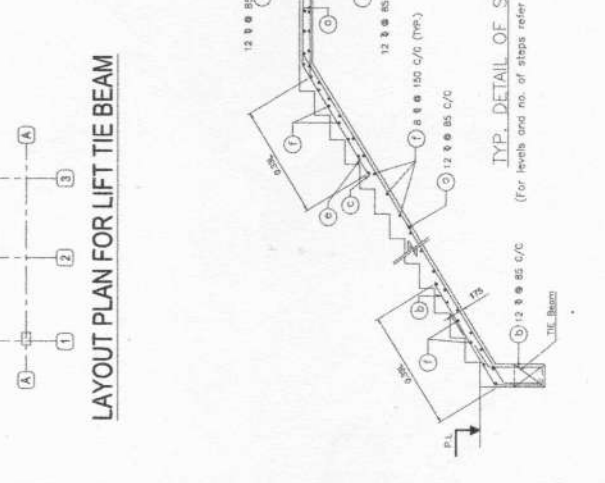
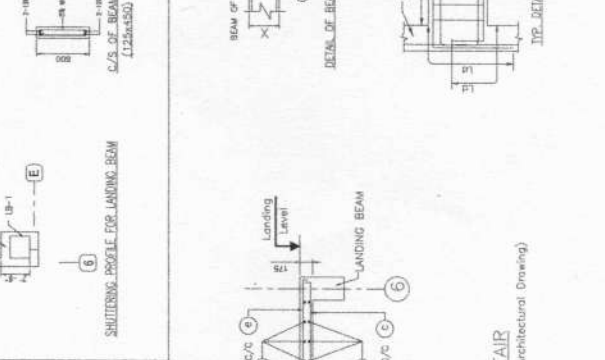
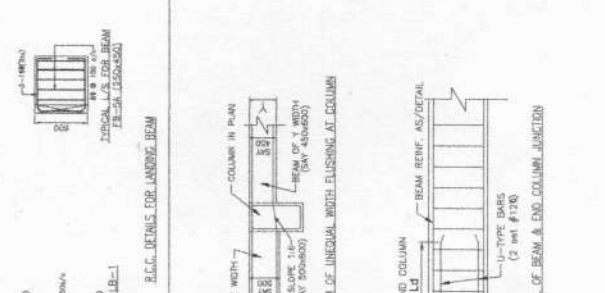
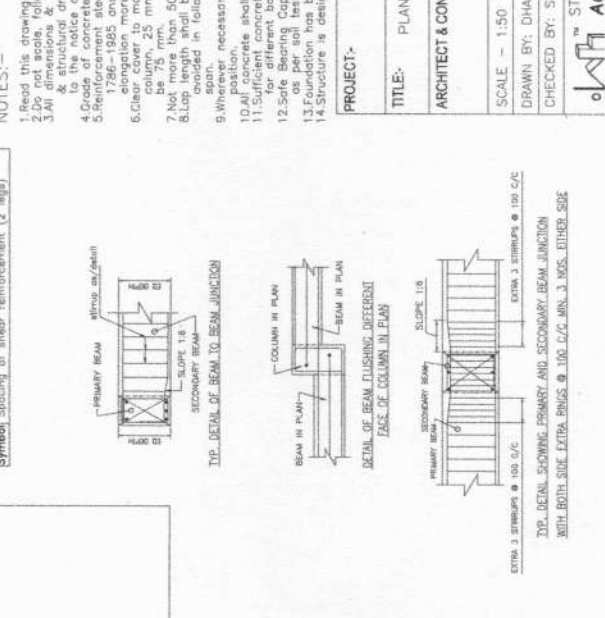
TITLE:- PLAN & R.C.C. DETAILS FOR TIE BEAM

ARCHITECT & CONSULTANT:- CHADDA & ASSOCIATES
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SCALE - 1:50
DRG NO: AEPH/CA/DAY/S/R/G-02
DATE: 09/01/2025
DESIGN BY: SUNIL

Rev: 00

STRUCTURAL CONSULTANT:-
ACHIEVERS ENGINCON PVT. LTD.
 PH. 91-9431590618



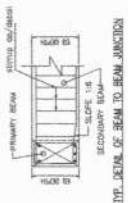
R.C.C. DETAILS OF FLOOR SLAB

A. CRACKED BARS		C. TOP BARS	
α1 : 12	12 @ 125 C/C	n :	10 @ 125 C/C
α2 : 12	12 @ 150 C/C	p :	10 @ 140 C/C
α3 : 10	10 @ 125 C/C	q :	8 @ 110 C/C
α : 10	10 @ 140 C/C	r :	8 @ 125 C/C
b :	8 @ 110 C/C	s :	8 @ 150 C/C
c :	8 @ 125 C/C	t :	8 @ 175 C/C
d :	8 @ 150 C/C	u1 :	12 @ 250 C/C
e :	8 @ 175 C/C	u2 :	12 @ 300 C/C
f :	8 @ 200 C/C	u3 :	10 @ 250 C/C
B. BOTTOM BARS (THROUGH)			
g1 :	10 @ 125 C/C	u4 :	10 @ 350 C/C
g :	10 @ 140 C/C	v :	8 @ 250 C/C
h :	8 @ 110 C/C	w :	8 @ 300 C/C
j :	8 @ 125 C/C	w1 :	8 @ 350 C/C
k :	8 @ 150 C/C	x :	10 @ 280 C/C
m :	8 @ 175 C/C	y :	8 @ 220 C/C
m1 :	8 @ 200 C/C	z :	10 @ 100 C/C

LEGEND
 ----- TOP BAR

THICKNESS OF FLOOR SLAB SHALL BE 125 MM UNLESS NOTED OTHERWISE

IN CASE OF CONTINUOUS SLAB EXTRA TOP STEEL AT SUPPORT SHALL BE COVERED BY GREATER STEEL SPECIFIED AT THAT SUPPORT.



- NOTES: -
- Read this drawing along with architectural & structural drawings.
 - Do not scale, follow written dimensions only.
 - All reinforcement shall be cast in place or precast with relevant architectural & structural details. In case of any ambiguity the matter shall be brought to the notice of the consultant before starting the work.
 - Grade of concrete shall be M-20 & shall be conforming to IS-455-2000.
 - Reinforcement steel shall be High Strength Deformed TM bars as per IS: 1786-2008 with minimum yield strength of 300 N/mm² and having elongation more than 4.5%.
 - Clear cover to main reinforcement shall be 50 mm for Footing, 40 mm for column, 25 mm for Beam, 20 mm for slab and side cover of footing shall be 25 mm.
 - Not less than 50% of bars shall be lapped at any section.
 - Lap length shall be equal to $L_d = 57$ times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
 - Wherever necessary chairs shall be provided to support the top reinforcement in position.
 - All concrete shall be machine mixed and machine vibrated.
 - Sufficient concrete cube test and steel yield strength test is to be performed to confirm the strength of concrete and steel.
 - Safe Bearing Capacity of the soil is 17 T/m² at 1800 mm below Ground level as per soil test report.
 - Foundation has been designed for (G+3) structure only.
 - Structure is designed for the earthquake zone-II.

PROJECT: PROPOSED DAV PUBLIC SCHOOL AT: SILLI (G+3)

TITLE: SHUTTERING PROFILE & R.C.C. DETAILS FOR FIRST FLOOR BEAM

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SCALE: 1:50 DRG NO: AEPL/CA/DAV/S/R/C-03

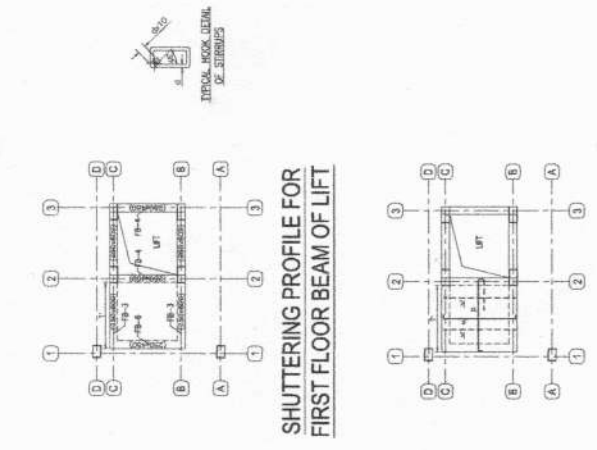
DRAWN BY: DHANANJAY DATE: 21/01/2025

CHECKED BY: SUNIL DESIGN BY: SUNIL

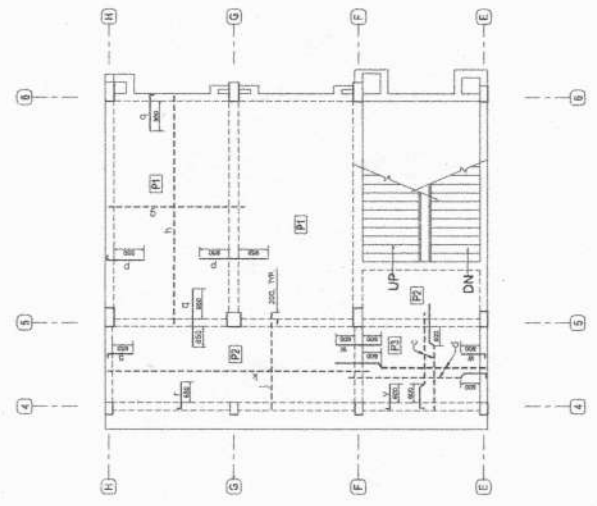
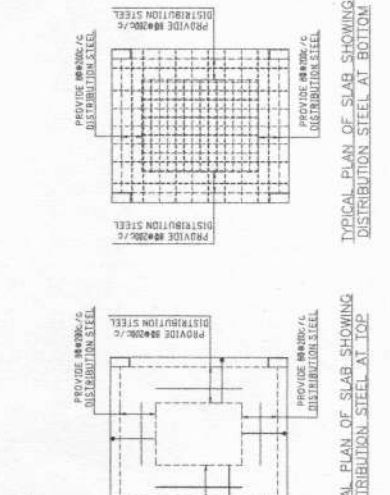
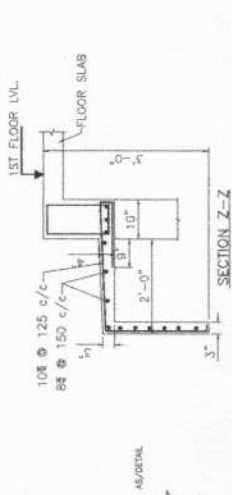
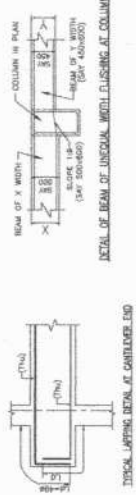
Rev: 00

ACTHIVE ENGINEERING CONSULTANT: - PH: 91-9431590618

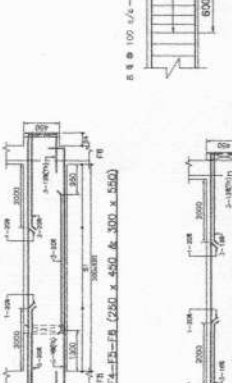
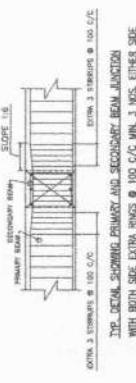
ACTHIVE STRUCTURAL CONSULTANT: - PH: 91-9431590618



R.C.C. DETAILS FOR FIRST FLOOR BEAM OF LIFT

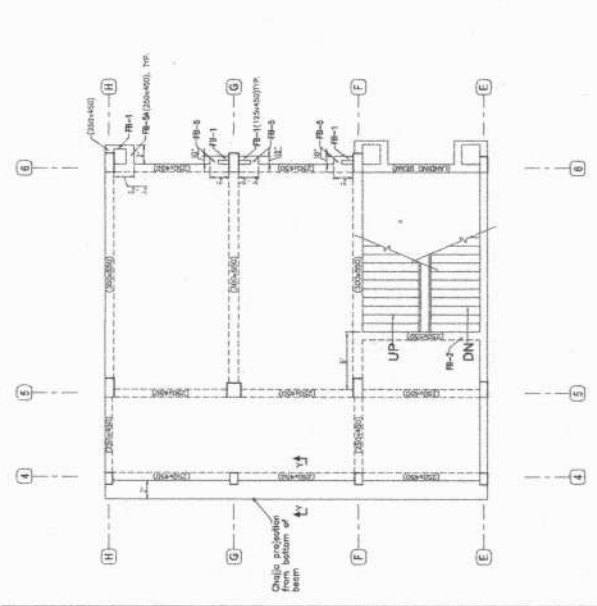


R.C.C. DETAILS FOR FIRST FLOOR SLAB

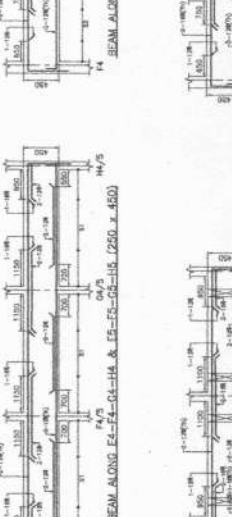
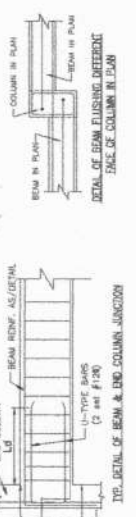


Symbol	up to 0.3% from support	middle	zone	up to 0.3% from support
S1	8 @ 100 c/c	8 @ 125 c/c	100 c/c	up to 0.3% from support
S2	8 @ 100 c/c	8 @ 150 c/c	100 c/c	up to 0.3% from support
S3	8 @ 100 c/c	8 @ 175 c/c	100 c/c	up to 0.3% from support
S4	8 @ 100 c/c	8 @ 200 c/c	100 c/c	up to 0.3% from support
S5	10 @ 100 c/c	10 @ 150 c/c	100 c/c	up to 0.3% from support
S6	10 @ 100 c/c	10 @ 200 c/c	100 c/c	up to 0.3% from support

Symbol Spacing of shear reinforcement (2 legs)



R.C.C. DETAILS FOR FIRST FLOOR BEAM



Symbol	up to 0.3% from support	middle	zone	up to 0.3% from support
S1	8 @ 100 c/c	8 @ 125 c/c	100 c/c	up to 0.3% from support
S2	8 @ 100 c/c	8 @ 150 c/c	100 c/c	up to 0.3% from support
S3	8 @ 100 c/c	8 @ 175 c/c	100 c/c	up to 0.3% from support
S4	8 @ 100 c/c	8 @ 200 c/c	100 c/c	up to 0.3% from support
S5	10 @ 100 c/c	10 @ 150 c/c	100 c/c	up to 0.3% from support
S6	10 @ 100 c/c	10 @ 200 c/c	100 c/c	up to 0.3% from support

Symbol Spacing of shear reinforcement (2 legs)