



ഗവൺമെന്റ് കേരളം

സംസ്ഥാന സർക്കാർ

(IUL) 434-A/434/2019/167

കേരള സർക്കാർ, തിരുവനന്തപുരം സർക്കാർ കെട്ടിടം, തിരുവനന്തപുരം
75 നമ്പർ, തിരുവനന്തപുരം സർക്കാർ കെട്ടിടം, തിരുവനന്തപുരം

2019 ജൂൺ 23



BILL OF QUANTITIES

RENOVATION FOR NATIONAL DRUG AGENCY COMMUNITY SERVICE CENTRE, MALE', MALDIVES

Item	Description	Unit	Quantity	Rate/ Unit	Rate/ Unit	Total Unit Rate	Amount
				Material	Labour	Rates per Units	
1	<u>BILL No: 01</u> <u>PRELIMINARIES & GENERAL ITEMS</u>						
1.1	<u>SITE MANAGEMENT, MOBILIZATION & DEMOBILIZATION</u> Allow for all on and off site management cost such as employ skilled individuals for site operations, provide and maintain site office accommodation facilities to staff and labours and all other relevant cost which associated with project management should consider under this item. Establishment of Transportation and establishing of all personnel ,plants & machineries, tools, equipments, materials and all other necessary items for the execution of the 'work.	Item	1.00			-	-
1.2	<u>GENERAL CLEAN-UP</u> Daily removal of debris and unnecessary materials from the project site to the dump site 'area as designated by the Engineer. The General Contractor shall allow all costs for proper housekeeping of the project site at all times. Making good of the compacted areas during final completion.	Item	1.00			-	-
1.3	<u>TEMPORARY FENCING, BARRIERS AND GATES</u> Maintenance of temporary fencing, barriers and gates	Item	1.00			-	-
	BILL No: 01 PRELIMINARIES & GENERAL ITEMS TOTAL OF BILL No: 01 - Carried over to summary						-
2	<u>BILL No: 02</u> <u>DEMOLITION WORK</u>						
2.1	<u>General</u> (a) Cost to include supply of material , labour , tools , & equipment, scaffolding, consumables (nails,screws,bolts,nuts,washer,etc.), cutting & forming, technical supervision and all other incidentals necessary to complete the work all in accordance with plans & specification.						



(b) Rates for demolishing existing structure shall include; breaking up and pulling down of structures and its associated substructure, and removing all incidental debris, cleaning and stacking materials required for making good, casing, covering up and protecting works to be retained or left intact, carrying out the works in sequence or phases; including piecemeal works.

(c) Rates for setting aside for re-use shall include cleaning, stacking, protecting and dispatching from, and the subsequent returning to site as required.

(d) Rates for cutting out existing structures shall include; using chisels, sledge hammers, pneumatic tools, flame cutters, diamond cores and other equipments/processes of various descriptions in cutting openings, quoining up jambs, forming recessed reveals, toothing and bonding, preparing thresholds and cut edges, providing necessary safety and security measures, installing temporary supports as required, cleaning and stacking materials required for making good, removing all debris from site

(e) All the works in this section shall be carried out as directed by the Engineer to his approval.

2.2	Demolition of Existing Wall as shown in drawings.	Item	1.00	-	-
2.3	Remove Existing Ceiling from community service center area.	Item	1.00	-	-
2.4	Remove all existing toilets fittings and fixtures and cart away debris from site as directed.	Item	1.00	-	-
2.5	Remove carefully all electrical equipment including accessories and hand over valuable materials to employer as directed	Item	1.00	-	-
2.6	Remove existing doors & window including hardware as shown in drawings. (Note : remove doors and windows should be scratch/damage free for re-use)	Item	1.00	-	-
2.7	Removing of existing ground slab and tiles in community service center area.	Item	1.00	-	-
2.8	Sealing off gaps/opening using similar material to existing after removal works with accepted quality standards	Item	1.00	-	-



2.9	Making good of all affected floor, wall and ceiling areas similar to existing material & finishes after renovation works as per accepted quality standards.	Item	1.00				
BILL No: 02 DEMOLITION WORK							
TOTAL OF BILL No: 02 - Carried over to summary							
3	<u>BILL No: 03</u> <u>EARTH WORKS</u>						
3.1	<u>General</u> (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil.						
3.2	<u>Site Clearing</u> Includes clearing of all trees and bushes complete with stems, roots Flooring and the reimbursement fees if applicable. The contractor is advised to survey the construction site and ensure that all necessary works for site clearing also included Reallocation of existing prefabricated garage within the health center site, Rates includes to additional materials (if needed) and labour to reallocate garage.	Item	1.00				
3.3	<u>Excavation</u> Excavation shall be carried out in all type of materials and by whatever means are necessary accurately to the lines and levels shown in the approved drawing. No blasting of any kind will be permitted. Excavation for foundations and will include timbering of soil faces and dewatering. Excavation quantities are measured to the faces of concrete members. Rates shall include for dewatering, leveling, grading, trimming compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil and include for all additional excavation required to place the formwork / shuttering and dewatering the trench for the required days.						
3.3.1	Excavation for Footings, F1 and F2.	m ³	6.44				
3.3.2	Excavation for Tie Beams	m ³	5.24				
3.4	<u>Back Filling up to ground level.</u> Rates shall include for: leveling, grading, trimming and compacting as specified.	m ³	3.85				



3.5	Basement filling Above ground level. Back filling above ground level in 100mm thick compacted layers of approved back fill soil and disposal of any excess soil and including ramp: rates shall include for leveling, grading, trimming and compaction in 100mm layers of filled areas of excavation	m ²	208.55	-	-
3.6	<u>WATER PROOFING</u>			-	-
3.6.1	Water proofing mixures, CONMIX MEGA ADD WL2 or equivalent shall be mixed with all concrete below ground level	Item	1.00	-	-
3.6.2	Water proofing mixures, CONMIX MEGAFLOW P or equivalent shall be mixed with super structure and substructure concrete work	Item	1.00	-	-
3.6.3	Apply 2 coats of water proofing bitumen paint conmix moya shield RBE to all structure below ground level	Item	1.00	-	-
3.6.4	Polythene damp proof membrane laid on compacted soil to receive ground floor and rate shall include for: dressing around and sealing to all penetrations.	Item	1.00	-	-
BILL No: 03 EARTH WORKS					
TOTAL OF BILL No: 03 - Carried over to summary					
4	<u>BILL No: 04</u> <u>CONCRETE WORKS</u>				
4.1	General a) Rates shall include for cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and other supports, laps and wastage. all reinforcement bars except 6 mm dia bars shall be of deformed high strength bars. 6 mm bar shall be round mild steel bars. Binding wire shall be of 1.6 mm or 1.4 mm soft iron wire. Reinforcement bars shall be cleaned before use i.e. should be free from rust, oil, dirt, or other coatings that reduces bonds, all reinforced bars and binding wires shall be stored under cover of at least 450 mm above the ground, cutting and bending according to approved manner & the approved working drawing, placing and fixing in position and binding should be as per the approved working drawing, laps in the bars shall be staggered, concrete cover for reinforcement shall not less than 50 mm for substructure, 40 mm for columns & side beams and not more than 30 mm for slab and beam bottoms.				



4.2

Lean Concrete

Lean concrete shall be 50mm thick & mix ratio shall be 1:3:6 by dry volume. Lean concrete placed at bottom of footing and foundation beam and below plinth for protection according to line and length mentioned in the approved drawing. Quantity measured to the edges of concrete foundation members. Rate shall include of placing any formwork where necessary, batching, mixing, casting in all required items pouring & compacting and curing for 3 days and removal of any formwork include for provision casting of required items & finishing after removal of formwork and additional concrete required to conform to structural and excavated tolerances and rates shall include supply of all required works

4.2.1	Footings, 50mm thick,	m ³	0.38	-	-
4.2.2	Tie Beams, 50mm thick,	m ³	1.58	-	-

4.3

Reinforced Concrete

- a) Rates shall include for: concrete, formwork, reinforcement, cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wires and chair supports, laps, distribution bars and wastage.

4.3.1	Foundations			-	-
a)	Footings F1, 900x900x300mm	m ³	0.73	-	-
b)	Footings F2, 750x750x300mm	m ³	1.52	-	-
c)	Tie Beam, TB 200x300mm	m ³	3.06	-	-

4.3.2	Ground Floor			-	-
a)	Concrete columns C1, 200 x 250mm	m ³	0.65	-	-
b)	Concrete columns C2, 200 x 200mm	m ³	1.55	-	-
c)	Concrete Lintel beams, 150 x 150mm	m ³	0.75	-	-
d)	Concrete Sill beams, 150 x 150mm	m ³	0.43	-	-
e)	100mm thick RC floor slab	m ³	18.38	-	-

4.3.3	Roof level			-	-
a)	Roof beam, RB, 150x150	m ³	1.83	-	-

BILL No: 04 CONCRETE WORKS**TOTAL OF BILL No: 04 - Carried over to summary**

MASONRY AND PLASTERING

5

5.1

General

(a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding

frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.

(b) Blocks shall be of standard quality with no defects and sample shall be submitted for approval of the Consultant.

(c) Bonding mortar shall be used immediately after mix, and mixed mortar left for more than one hour shall be rejected.

(d) The thickness of joints shall not exceed 10 mm and the joints shall be rated (13 mm dup.) when the mortar is still floor, so as to provide for proper bond for the plaster. Any mortar which falls on the floor from these joints or removed due to raking of joints shall not be reused.

(e) The blocks shall be free from excessive amounts of salt or other impurities and shall be inspected and approved by the Consultant.

(f) Vertical and horizontal joint of blocks shall be filled completely and suitable with mortar on line shall not be moved or rearranged. Joint and surface of block of exposed finished block wall shall be cleaned immediately after joint is filled.

Plastering

(g) The thickness stated for plastering and backings are nominal. Allowance shall be made for any dubbing required to achieve the designed thickness.

(h) All masonry walls shall have smooth finished cement plaster on both sides with a surface setting coat of neat cement applied within an hour of the completion of rendering.



	Water proofing					
	(i) Rates for waterproofing system shall include for screening, dressing around and into pipes and outlets, and or providing the necessary agreed (accepted local) years guarantee for workmanship and materials and testing by flooding.					
	(j) Rate for damp proof membrane shall include for laying, dressing around, sealing all penetration and laps.					
5.2	BRICK WORK					
	<u>150mm thick masonry block wall, bricks laid to form alternate courses of headers and stretchers, laid on and incl. mortar</u>					
5.2.1	External and Internal wall	m ²	93.10			
5.2.2	Repairing the damaged walls	Item	1.00			
	<u>100mm thick masonry block wall, bricks laid to form alternate courses of headers and stretchers, laid on and incl. mortar</u>					
5.2.2	Toilet Internal wall	m ²	38.50			
5.3	PLASTERING					
5.3.1	Internal plastering 15mm thk. One coats Plain Cement Plaster, 1:4 cement to river sand mix ratio on Internal surface	m ²	157.92			
5.3.2	External plastering 20mm thk. (10+10mm) 2 coats Plain Cement Plaster, 1:4 cement to river sand mix ratio on External surface with waterproofed prime plaster	m ²	105.28			
5.4	Cement Screed Finish					
	50mm thick Cement screeding on the concrete floor with 1:4 cement mortar mix incl. trowel finish; General Areas					
5.4.1	Ground Floor	m ²	208.55			
5.5	Dry wall partition					
	75mm thick dry wall partition, 12mm thick M-board with timber frame. Rates includes to fabricate partition as per manufactures instructions as well as puttying and Anti-bacterial and washable paint on both side and etc.					
5.5.1	Partition wall , up to the ceiling.	Item	1.00			



5.6	Readymade partition 50mm thick readymade partition, Rates includes to fabricate partition as per manufactures instructions etc.					-	-
5.6.1	Clinical In charge cabin and Center In charge Cabin Partition, Ht 1600mm.	Item	1.00			-	-
5.7	Admin Area and Lab Staff area cabin					-	-
5.7.1.	Readymade cabin with file wardrobe(Refer drawing)	Set	7.00			-	-
BILL No: 05 MASONRY AND PLASTERING							
TOTAL OF BILL No: 05 - Carried over to summary							
BILL No: 06							
<u>DOORS & WINDOWS</u>							
6	General						
6.1	<p>(a) The prices for doors, windows, hand railings and fixed glass panels, etc., shall include for All necessary materials, labor and plant in connection with design, manufacturing, fabricating, transporting, handling, hoisting, installing, Cutting holes and chases for fixings, extract fans and making good, Pointing the clearances between the aluminum framings and structural openings with quality patent mastic as recommended, Large and small panes, cutting, waste, all risk putty, glazing beads, caulking compound, breakages before and after fixing, fixing at floor level or at heights, etc.</p> <p>(b) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.</p> <p>(c) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boarding's, framing, lining, fastenings and all fixings.</p> <p>(d) Sizes are given overall outside dimensions of actual doors and windows.</p> <p>(e) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule and glazing for doors and windows shall be of specified thickness and of approved quality and shall conform to specification of glazing</p> <p>(f) Rates shall include for all doors and windows painting as specified</p> <p>(g) Rate shall be include for sills & lintels for all necessary doors and windows and lintel shall be reinforced concrete as approved or directed by the Engineer.</p>						



	(h) Rates shall be include all items specified in the door schedule				
	(i) All iouvres, windows and sliding doors shall be 80 micron powder coated aluminium as per details given in Door/Window schedule.				
	(j) Rate shall be include for Bedding frames in waterproof cement mortar and pointing both sides in mastic and All necessary fixing and glazing beads, rubber or neoprene gaskets, rivets, bolt anchors				
6.2	<u>Supply and installation of:</u> <u>Aluminium doors and windows size and design models are same as in the building nearby.</u>				
6.2.1	D - Aluminum 60-80 Micron, raisin black (Dark Coffee Colour) powder coated framed door, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (900 x 2400mm)	No	1.00	-	-
6.2.2	D1. Solid timber Door 850 X 2150mm with Decorative panels and shall be inspected and approved by the Consultant.	No	10.00	-	-
6.2.3	D2. Solid timber Door 750 X 2100mm with panels and shall be inspected and approved by the Consultant.	No	6.00	-	-
6.2.4	D3 - Aluminum 60-80 Micron, White powder coated framed door, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (900 x 2400mm)	No	2.00	-	-
6.2.5	D4 - Aluminum 60-80 Micron, raisin black (Dark Coffee Colour) powder coated framed door, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (850 x 2400mm)	No	2.00	-	-
6.2.6	S1 - Aluminum 60-80 Micron, raisin black (Dark Coffee Colour) powder coated framed window, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (1400 x 1750mm)	No	4.00	-	-
6.2.7	S2 - Aluminum 60-80 Micron, white powder coated framed door, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (2600 x 1510mm)	No	1.00	-	-
6.2.8	S3 - Aluminum 60-80 Micron, white powder coated framed door, comprising 1 nr mullion, fix glazed with 6mm thick black tinted glass casements, overall size (1700 x 1510mm)	No	1.00	-	-
6.2.9	FG -Solid timber frame with 6mm thick fixed tinted glass casements, overall size (1800 x 1060mm)	No	4.00	-	-
6.2.10	V1, Aluminum 60-80 Micron, powder coated window 600x650mm with panels as per drawings	No	2.00	-	-



6.3	LAB SHELF WORK (a) The work is deemed to include fair joints, cutting, drainage holes, bedding, washing, mortar and adhesives, grouting, cleaning, sealing & polishing (b) Rate shall include for All supplying, fixing and fittings etc.as per the drawings. (c) Contractors have to provide a cutting for Eye wash sink.(refer drawing)						
6.3.1	Counter top Laboratory sink at machine area(refer Photos)	Set	1.00				
6.3.2	Table with Drawers and 2 office chairs (refer drawings)	Set	1.00				
6.3.3	18mm thick Plywood adjustable Shelf above the table (finished with white Formica coating (refer drawings)	Set	1.00				
6.3.4	18mm thick Plywood adjustable fabricated shelf with door(finished with white Formica coating (refer drawings)	Set	1.00				
BILL No: 06 DOORS & WINDOWS							
TOTAL OF BILL No: 06 - Carried over to summary							
7	Bill No: 7 ROOFING AND CEILING						
7.1	General Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails,bolts & screws. Rate shall include for cement board false ceiling of approved framing and hangers manufacturer fixed complete with suspension system including , bulkhead, moulding, cornice and perforations required for luminaries, grills and ducts etc. as specified and to the approval of the Engineer.						
7.2	Roofing Repair and replace of damaged timber roof with Lysaught roofing sheets and including glasswool insulation	Item	1.00				
7.3	Gutter (a) Pre painted Metal gutter including framing, and supports, straps, brackets, clips, stop ends, overflow, downpipe outlets, mesh flashings and all fixings and fastenings.						



7.3.1	200mm lysaght gutter	Item	1.00					
7.4	Down Pipes							
7.4.1	75 mm dia PVC down pipes including bends, junctions, straps, brackets, clips and all fixings.	Item	1.00					
BILL No: 7 - ROOFING								
TOTAL OF BILL No: 7 - Carried over to summary								
8	BILL No: 08 TILING							
8.1	General Prepare surface for approved bedding tiles with reach bedding materials as per the technical specifications & approved working drawings, fix tiles with ct grout in a precise manner to maintain correct alignment, applying tile grout and wiping any excess grout to ensure the required standards of finished works.Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing any other similar works to ensure the required finish.All tiles shall be Full body homogeneous tiles or equivalent.							
8.2	Floor finish 600x600 skid resistant full body homogeneous floor tiles,							
8.2.1	Reception area	m ²	16.10					
8.2.2	Sign-in & Urinal collection area	m ²	26.52					
8.2.3	Counseling rooms and Passage	m ²	38.95					
8.2.4	Admin Area, Center Incharge Cabin, Clinical Incharge cabin and Meeting Hall	m ²	101.95					
8.2.5	Store	m ²	5.46					
8.2.6	Changing room, Client toilet, Public toilet, Staff toilet and wash room	m ²	9.10					
8.3	Wall finish 300x600 mm full body homogeneous wall tile,							
8.3.1	Changing room only Basin Area width is 0.6m and hight 1.8 meter from floor finish level	m ²	1.44					
8.3.2	Client toilet wall tiling with 6mm mirror, Mirror ht upto 0.9m from floor finish level	m ²	9.90					
8.3.3	Public Toilet and Staff toilet ht 1.8m from floor finish level	m ²	27.00					
8.3.4	wash room only basin area	m ²	1.55					



	BILL No: 8 - TILING						
	TOTAL OF BILL No: 8 - Carried over to summary						
	BILL No: 9						
	CEILINGS						
9	General (j) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails,bolts & screws. (k) Rate shall include for cement board false ceiling of approved framing and hangers manufacturer fixed complete with suspension system including , bulkhead, moulding, cornice and perforations required for luminaries, grills and ducts etc. as specified and to the approval of the Engineer.						
9.1	Interior Ceilings Interior ceiling consist of GI frame with 6mm thick Gypsum board suspended ceiling, including framing heading nails and screws. Grid of the frame to be 600 x 300 and as per manufactures instruction.						
9.1.1	Reception area	m ²	16.10				
9.1.2	Sign-in & Urinal collection area	m ²	26.52				
9.1.3	Counseling rooms and Passage	m ²	38.95				
9.1.4	Admin Area, Center Incharge Cabin, Clinical Incharge cabin and Meeting Hall	m ²	101.95				
9.1.5	Store	m ²	5.46				
9.1.6	Remove and repair the lab and lab staff area ceiling	Item	1.00				
9.2	6mm thick Cement board ceiling						
9.2.1	Changing room, Client toilet, Public toilet, Staff toilet and wash room	m ²	9.10				



	BILL NO: 9 CEILINGS					
	TOTAL OF BILL No:9 - Carried over to summary					
10	BILL No: 10					
	<u>PAINING</u>					
10.1	General					
	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door and window furniture where necessary.					
	(b) All painting work shall be carried in accordance with the drawings and Specifications and subject to approval by Engineer					
	(c) Rate shall include for putty and paint finish for interior surfaces of the wall and ceilings complete including application of two coats of wall sealer, two coats of putty finish and two coats of emulsion paint finish on top for Interior painting.					
10.2	Wall painting					
10.2.1	External painting 1 coat of wall sealer, 1 coat texture compound & 2 coats of paints (all coats to be oil based and external paint).					
a)	Ground floor	m ²	242.83			
10.2.2	Internal Painting 1 coat of wall sealer & 2 coats of paints, Emulsion paint putty finish system on plastered and concrete surfaces of internal walls.					
a)	Ground floor	m ²	789.20			
10.3	Interior Ceiling painting					
10.3.1	Emulsion paint putty finish on concrete slab and beams, plywood / cement fiber board of all internal surfaces. 1 coat of primer & 2 coats of paints.					
a)	Emulsion putty paint finish	m ²	201.07			



	BILL No: 10 - PAINTING						
	TOTAL OF BILL No: 10 - Carried over to summary						
11	BILL No: 11 <u>ELECTRICAL INSTALLATIONS</u>						
11.1	General (a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories (b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil (c) Rates shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces (d) Each Light/ light fixture and its switch is measured as one one point; similarly each fan or each socket outlet is measured as one point; (e) Rates shall include for supply and complete installation						
11.2	Electrical Boards Three phase electrical distribution board (wall embedded) with one Meter: Supply and installation of D-Board . Rates Shall include all required Brackets and other electrical appliance as per drawings and Maldivian Regulations (wall embedded) Meter to be cover with whether proof box. All the light circuit should be one DB Sockets to be one DB.	Item	1.00				
11.3	Electrical wiring Three phase Electrical wiring with copper conductor cable in conduits in walls and in casing on soffits of slab as specified to:						
11.3.1	Wiring with 2.5 mm ² cable to Power points	Points	46.00				
11.3.2	Wiring with 2.5 mm ² cable to 1 x 15 Amp Power points (for AC)	Points	13.00				
11.3.3	Wiring with 2.5 mm ² cable to lights	Points	127.00				
11.3.4	Electrical cable of 44. 4 core – 150ft (Penal board to D board connection)	Nos	1.00				
11.4	Lighting						
11.4.1	Whether proof ceiling mount light with with 13W LED bulb, (Philips) E27, Cool day light, Total lumen 1400, for Portico area	Nos	120.00				
11.4.3	Whether proof wall mount light with with 13W LED bulb, (Philips) E27, Cool day light, Total lumen 1400, for Portico area	Nos	7.00				
11.4.4	LED Emergency light (2 hours Battery charge)	Nos	6.00				
11.5	Socket outlets						



	(a) All socket outlets shall be "Legrand" or equivalent.						
11.5.1	1x13Amp wall Socket outlet,	Nos	8.00				
11.5.2	2x13Amp wall Socket outlet,	Nos	36.00				
11.5.3	1x15Amp wall socket outlet, for AC	Nos	13.00				
11.6	Light switches						
	(a) All light switches shall be "Legrand" or equivalent. Each light should be control by one switch.						
11.6.1	One gang switch	Nos	14.00				
11.6.2	Two gang switch	Nos	20.00				
11.6.3	Three gang switch	Nos	20.00				
11.6.4	Out door photo cell switch	Nos	1.00				
11.7	Telephone Network						
	Design and supply and complete installation of Telephone network (Including cabling and sockets) and connect to existing PABX. Cat6 cable to be used for laying telephone network.						
11.7.1	Completion of Telephone outlet points , rates includes to connect existing telephone network.	Item	1.00				
11.8	Computer Network						
	Design, Supply and Complete Installation of computer networking, including CAT6 Cabling, Sockets and double layer switches, Allow for the provision of a completed and detailed set of shop drawings						
11.8.1	Completion of Data Network points	Item	1.00				
11.8.2	D-Link network switch 24 port, or equivalent	Item	1.00				
11.8.3	Supply and complete installation of (including connect existing data network) D-Link WIFI router, or equivalent	Item	1.00				
11.9	Access control						
	(a) Finger printing scanner should be fixed on both side of the door at Main entrance to get excess IN and OUT						
	(b) Finger scan reader brand ZKFR 1200 with both card and finger reading						
	(c) A controller should come with a back-up battery in case power loss.						
11.9.1	Supply and complete installation of Access control unit, specification mentioned above. Readers on both side. (Main entrance, Sign - in and Admin area)	Item	1.00				



11.10	<u>TV network</u> Design, Supply and Complete Installation of TV networking, including Cabling, Sockets and double layer switches, Allow for the provision of a completed and detailed set of shop drawings						
11.10.1	Reception and sign-in area Supply and complete installation of Sony 55 inch TV.	Set	2.00				
BILL No: 11 - ELECTRICAL INSTALLATIONS							
TOTAL OF BILL No: 11 - Carried over to summary							
<u>BILL No: 12</u> <u>HYDRAULICS & DRAINAGE</u>							
12.1	<u>General</u> (a) Rates shall include for excavation, laying pipes and backfilling trenches, maintaining faces of drainpipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints brackets, joints, straps, hangers, screws, nails and fixing complete, and all joints and other incidental material, All Pipes and fittings area high pressure uPVC pipes fixing complete, including cutting and forming holes; excavating, laying pipes and backfilling trenches. (b) All pipe work shall be uPVC.						
12.2	<u>Fresh water supply pipe work</u>						
12.2.1	Completion of pipe works and Connect ground water supply pipe work to Fresh water network installed at hospital.	Item	1.00				
12.3	<u>Ground water supply pipe work</u>						
12.3.1	Completion of pipe works and Connect ground water supply pipe work.	Item	1.00				
12.4	<u>Sanitary fixtures & accessories</u> Sanitary fixtures & Accessories: Sanitary fixtures complete including brackets, flush pipes, valves, overflows, plugs and washers, as specified.						
12.4.1	Water closet (Cotto) or equivalent, (dual top flush)	Set	4.00				
12.4.2	Wash basin with half pedestal (Cotto) or equivalent	Set	4.00				
12.4.3	Floor drain with gully & water trap.	Set	4.00				
12.4.4	Water tap for wash basin , (Cotto) or equivalent	Set	4.00				
12.4.5	Muslim Shower with Stop valve, (Cotto) or equivalent	Set	4.00				
12.4.6	Floor waste with SS gully trap	Set	4.00				



12.4.7	Stop Valves, (Cotto) or equivalent	Set	4.00				
12.4.8	Wall cabinet (Mirror and towel bar) Cotto and equivalent	Set	4.00				
12.5	Drainage <u>General</u> (a) Rates shall include for: excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus spoil; bends, junctions, reducers, expansion joints and all joints and other incidental materials. (b) All pipe work shall be UPVC						
12.5.1	Constructing Concrete Inspection Chamber of required size with all provisions to connect pipelines as per drawing.	Item	1.00				
12.6	Pipe work						
12.6.1	Completion of pipe works and Connect Waste disposal pipe 75mm dia to Sewer network installed at existing system at hospital.	Item	1.00				
12.6.2	Completion of pipe works and Connect Sewers pipe 100mm dia UPVC to to Sewer network installed at existing system at hospital. Rates includes to install inspection chamber as per consultants instructions.	Item	1.00				
BILL No: 12 - HYDRAULICS & DRAINAGE							
TOTAL OF BILL No: 12 - Carried over to summary							
13	BILL No: 13 <u>AIR CONDITIONING SYSTEM</u>						
13.1	General (a) Rates shall include for detail design, supply and complete installation of A/C units pipework, insulation, fixings, electrical wiring, drain pipes etc. (b) The Contractor shall provide detailed and complete set of shop drawings						
13.2	Air Condition Design, supply and complete installation of indoor unit, with 40ø drop in water (type) 25ø extended as Cd drop in 32 flex conduit 18ø Cd drain (typ0 run above FC insulated, all AC unit is Panasonic, Hitachi or equivalent (INVERTER TYPE). (b) All the Air conditions are Inverter type, Panasonic, Hitachi or equivalent brand, All indoor unit should be wall mount type.						
13.2.1	AC 12,000BTU, Panasonic delux inverter or equivalent in Reception	Nos	1.00				



13.2.2	AC 12,000BTU, Panasonic delux inverter or equivalent in Sign-in-in & urin collection area	Nos	1.00					
13.2.3	AC 10,000BTU, Panasonic delux inverter or equivalent in Counselling rooms	Nos	5.00					
13.2.4	AC 24,000BTU, Panasonic delux inverter or equivalent in Admin area	Nos	3.00					
13.2.5	AC 18,000BTU, Panasonic delux inverter or equivalent in Meeting Hall	Nos	1.00					
13.2.6	AC 12,000BTU, Panasonic delux inverter or equivalent in Laboratory Staff area and Machine room	Nos	2.00					
BILL No: 13 -AIR CONDITIONING SYSTEM								
TOTAL OF BILL No: 13 - Carried over to summary								
14	<u>BILL No: 14</u> <u>FIREFIGHTING INSTALLATION</u>							
14.1	<u>General</u>							
	(a) Rates shall include for screws,nails,bolts nuts,standard cable fixing or supporting clips,brackets,straps,riverts,plugs and all incidental accessories.Rates also shall include for cables and conduits fixing to equipments and similar type of works.							
	(b) Rates shall include for all necessary electrical wiring and accessories required for completion.							
	(c) Rate shall include for supply and complete installation of all equipment as per Manufacturer's instructions and to local authority guidelines.							
14.2	<u>Supply and install:</u>							
14.2.1	Co2 Extinguisher with cabinet (2kg)	Nos	2.00					
14.2.2	H2O Extinguisher with cabinet (9 Liter)	Nos	2.00					
14.2.3	Smoke detectors	Nos	20.00					
BILL No: 13 -'FIREFIGHTING INSTALLATION								
TOTAL OF BILL No: 13 - Carried over to summary								
	<u>BILL No: 15</u> <u>MISCELLENEOUS</u>							
15.1	CCTV connection and set up to complete, including (9 Nos) wall mount cameras and storage systems as per Engineer's instructions	Item	1.00					
BILL No: 15 -MISCELLENEOUS								
TOTAL OF BILL No: 15 - Carried over to summary								



BILL No:16
TENDERER'S ADJUSTMENTS

(a) Provide detail description of work items under each bill and insert extra pages if required.

Additions

- PRELIMINARIES, Bill no. 01
- GROUND WORKS, Bill no. 02
- CONCRETE, Bill no. 03
- MASONRY AND PLASTERING, Bill no. 04
- METAL WORKS, Bill no. 05
- DOORS AND WINDOWS, Bill no. 06
- TILING, Bill no. 07
- CEILINGS, Bill no. 08
- PAINTING, Bill no. 09
- HYDRAULICS & DRAINAGE, Bill no. 10
- ELECTRICAL INSTALLATIONS, Bill no. 11
- AIR CONDITIONING SYSTEM, Bill no. 12
- TENDERER'S ADJUSTMENTS, Bill no. 13

ADDITIONS TOTAL

Omissions

- PRELIMINARIES, Bill no. 01
- GROUND WORKS, Bill no. 02
- CONCRETE, Bill no. 03
- MASONRY AND PLASTERING, Bill no. 04
- METAL WORKS, Bill no. 05
- DOORS AND WINDOWS, Bill no. 06
- TILING, Bill no. 07
- CEILINGS, Bill no. 08
- PAINTING, Bill no. 09
- HYDRAULICS & DRAINAGE, Bill no. 10
- ELECTRICAL INSTALLATIONS, Bill no. 11
- AIR CONDITIONING SYSTEM, Bill no. 12
- TENDERER'S ADJUSTMENTS, Bill no. 13

OMISSIONS TOTAL

BILL No: 16 - TENDERER'S ADJUSTMENTS

TOTAL OF BILL No: 16 - Carried over to summary



**RENOVATION FOR NATIONAL DRUG AGENCY COMMUNITY SERVICE CENTRE,
MALE', MALDIVES**
Republic of Maldives

**BILL OF QUANTITIES
SUMMARY**

ITEM CODE	DESCRIPTION	AMOUNT (MVR)
1.00	PRELIMINARIES & GENERAL ITEMS	MVR. -
2.00	DEMOLITION WORK	MVR. -
3.00	EARTH WORKS	MVR. -
4.00	CONCRETE WORKS	MVR. -
5.00	MASONRY AND PLASTERING	MVR. -
6.00	DOORS & WINDOWS	MVR. -
7.00	ROOFING AND CEILING	MVR. -
8.00	TILING	MVR. -
9.00	CEILINGS	MVR. -
10.00	PAINTING	MVR. -
11.00	ELECTRICAL INSTALLATIONS	MVR. -
12.00	HYDRAULICS & DRAINAGE	MVR. -
13.00	AIR CONDITIONING SYSTEM	MVR. -
14.00	FIREFIGHTING INSTALLATION	MVR. -
15.00	MISCELLENEOUS	MVR. -
16.00	TENDERER'S ADJUSTMENTS	MVR. -
GRAND TOTAL		MVR. -
GST 6%		MVR. -
GRAND TOTAL WITH GST		MVR. -



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سکیم نمبر 3: تیز تیز ویکری ڈیٹا

تیز تیز ویکری ڈیٹا کی فراہمی اور تیز تیز ویکری ڈیٹا کی فراہمی

<p>تیز تیز ویکری ڈیٹا:</p> <p>.....</p>	
<p>تیز تیز ویکری ڈیٹا، تیز تیز ویکری ڈیٹا، تیز تیز ویکری ڈیٹا:</p> <p>.....</p>	
<p>تیز تیز ویکری ڈیٹا، تیز تیز ویکری ڈیٹا، تیز تیز ویکری ڈیٹا:</p> <p>.....</p> <p>.....</p>	
<p>تیز تیز ویکری ڈیٹا:</p> <p>.....</p>	<p>تیز تیز ویکری ڈیٹا:</p> <p>.....</p>
<p>تیز تیز ویکری ڈیٹا (تیز تیز ویکری ڈیٹا)</p> <p>.....</p>	<p>تیز تیز ویکری ڈیٹا (تیز تیز ویکری ڈیٹا)</p> <p>.....</p>



بج تفریق: 1

- نامزدوں کے لئے سہولتیں فراہم کرنے کے لئے
- ایسوسی ایشن کے لئے سہولتیں فراہم کرنے کے لئے



بج شروعات 2

• ٢٠٠٧-٢٠٠٨ بج شروعات



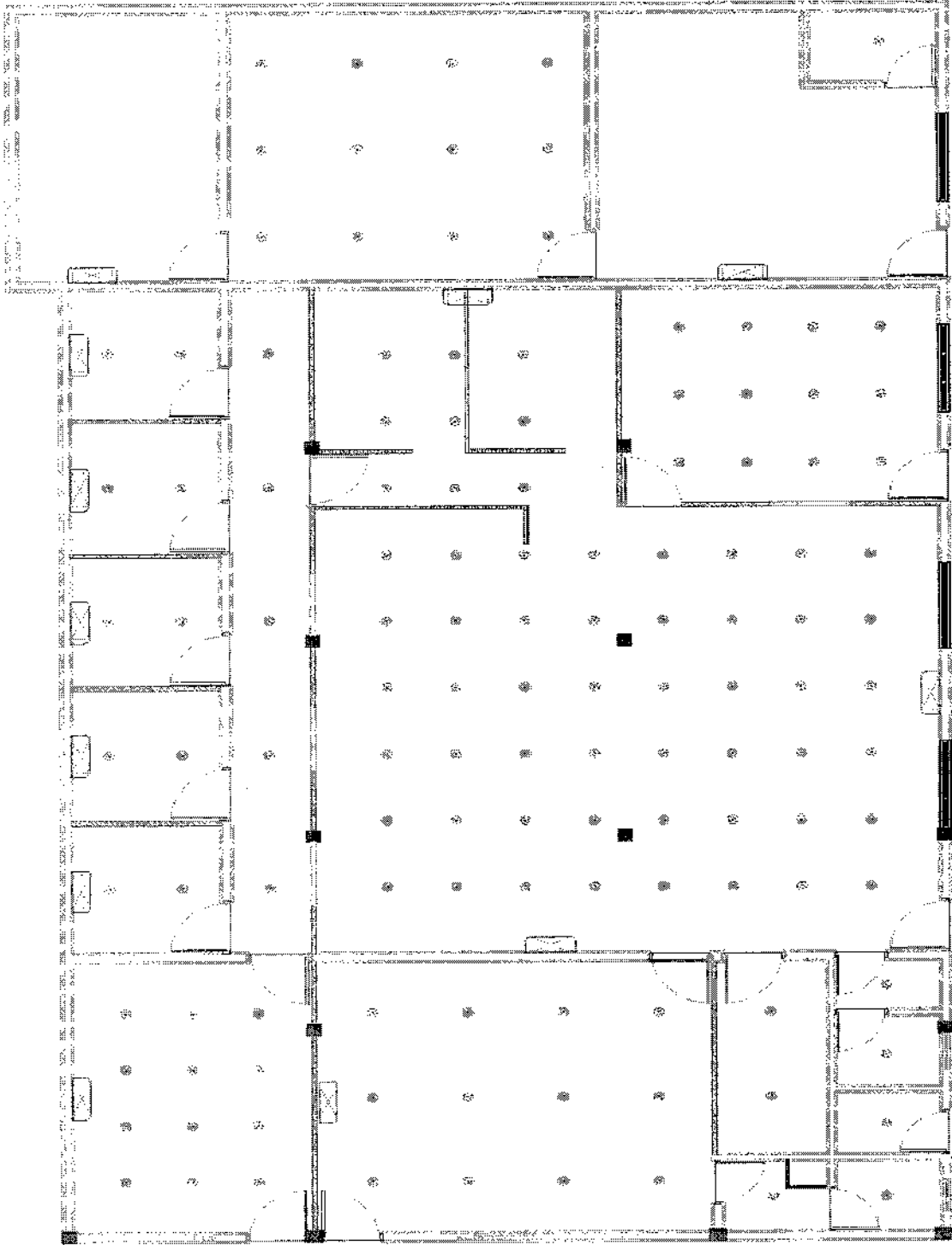
بجے ترسوزا: 4

• سوزے سوزا سوزا سوزا سوزا سوزا



طرح تاسیسات 6

مختص مرکز خدمات جامع سلامت روستا

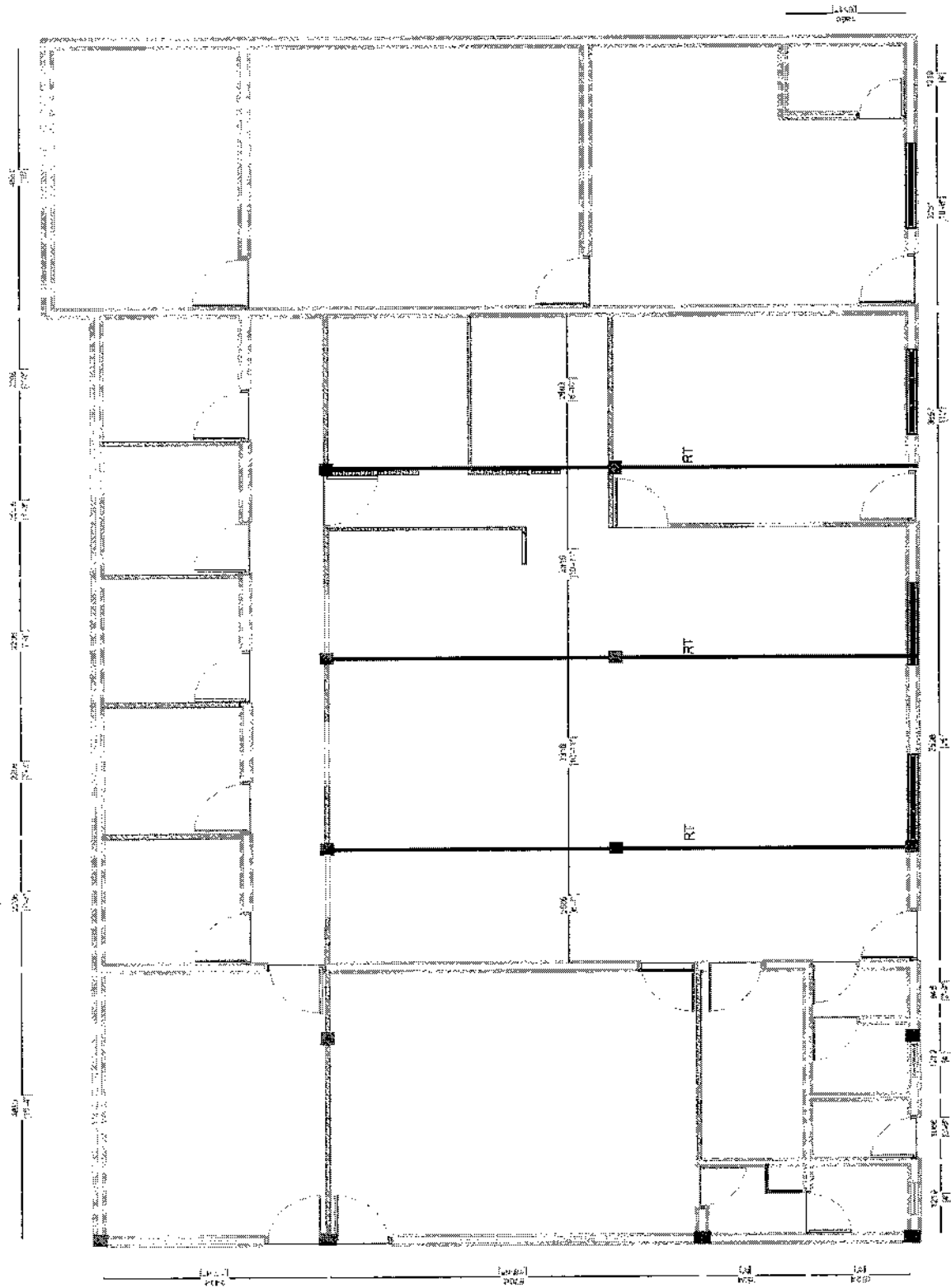


● LIGHTING FIXTURES

□ AIR CONDITIONERS

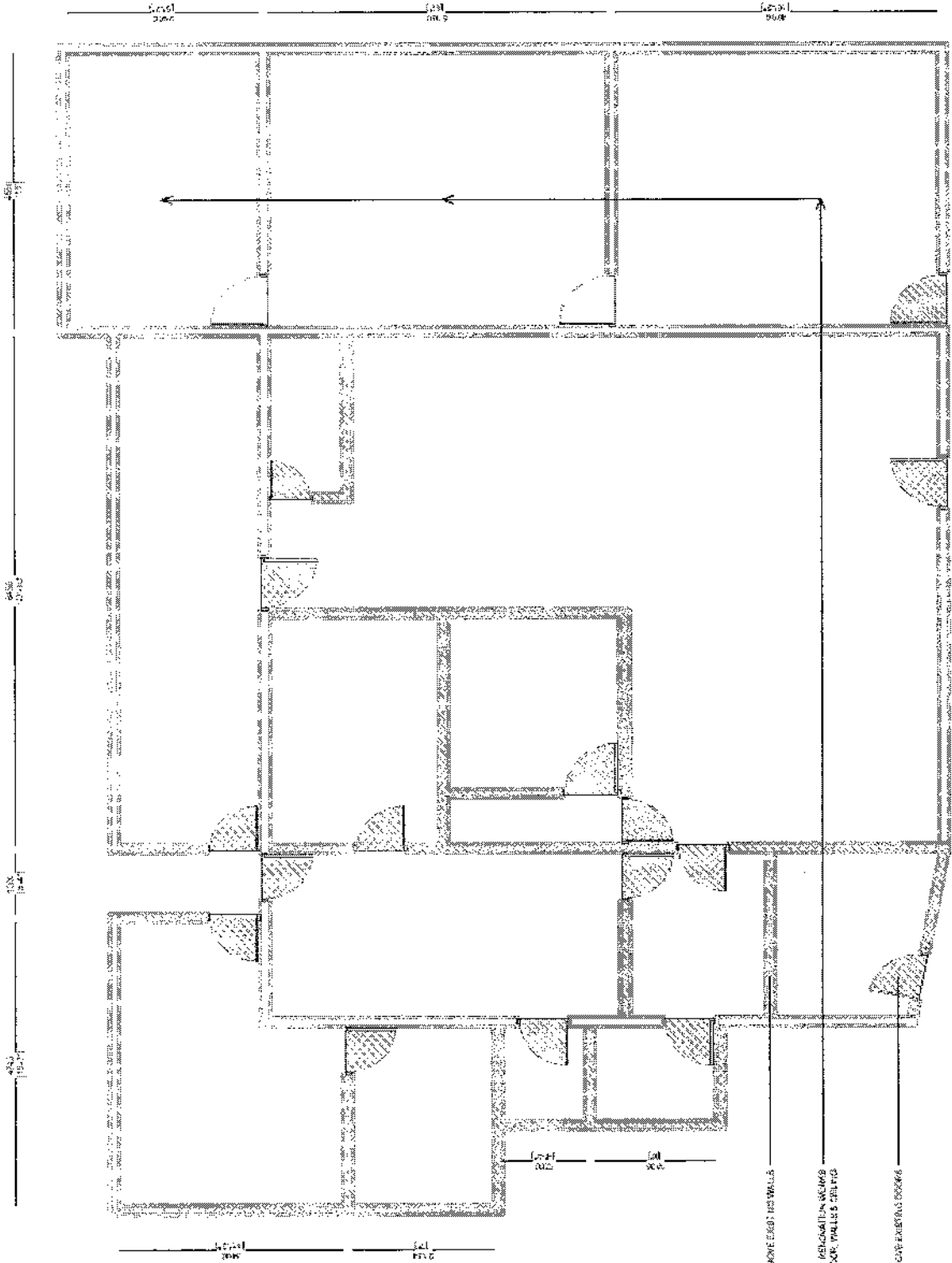
ELECTRICAL LIGHTS AND AC LAYOUT
SCALE: 1/80





ROOF TRUSS LAYOUT
SCALE: 1/8" = 1'-0"

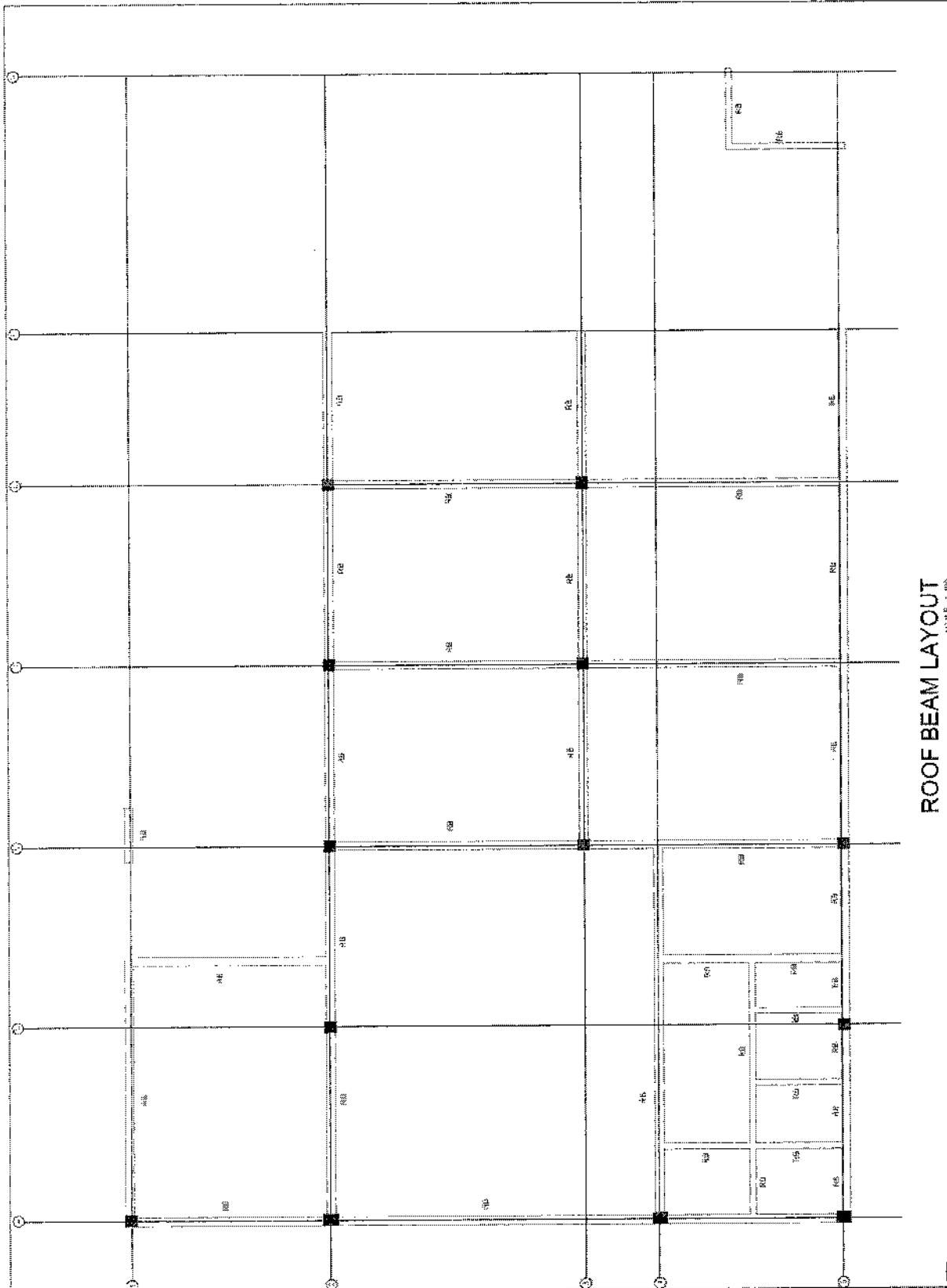




DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

REMOVE EXIST. INS. WALLS
REMOVE EXIST. STRUCT. WALLS
REMOVE EXIST. PARTITION WALLS

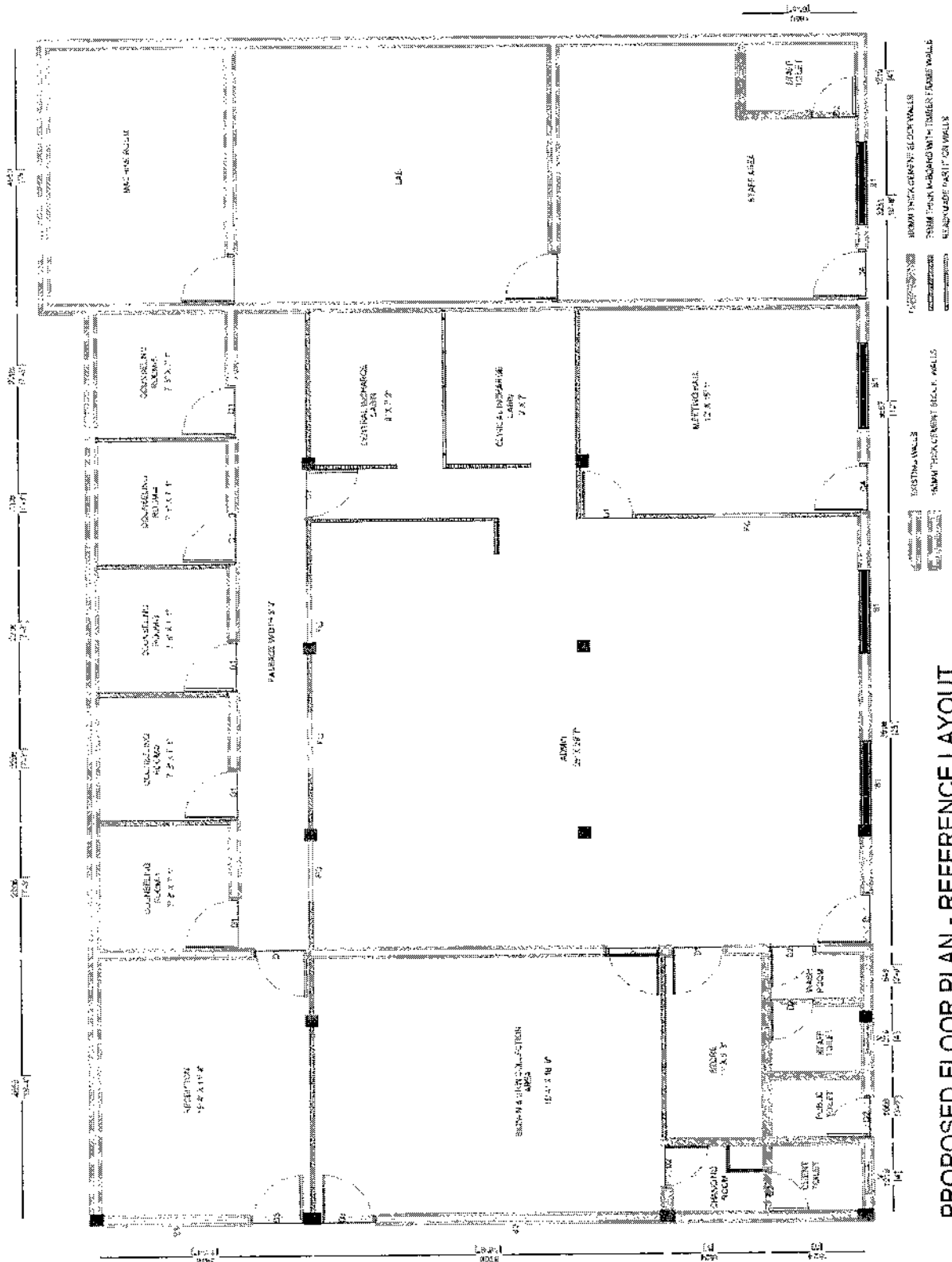




ROOF BEAM LAYOUT
مردم

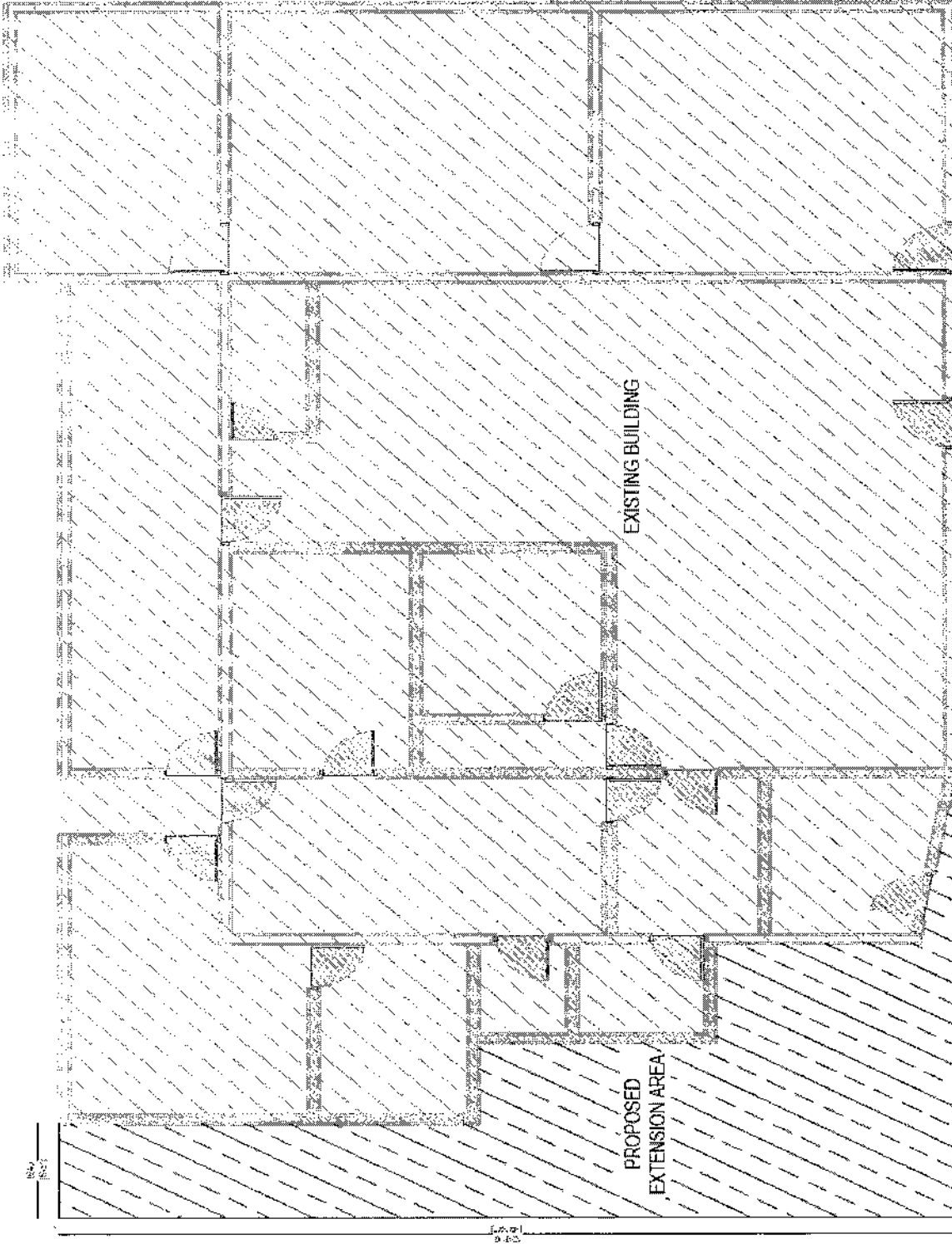


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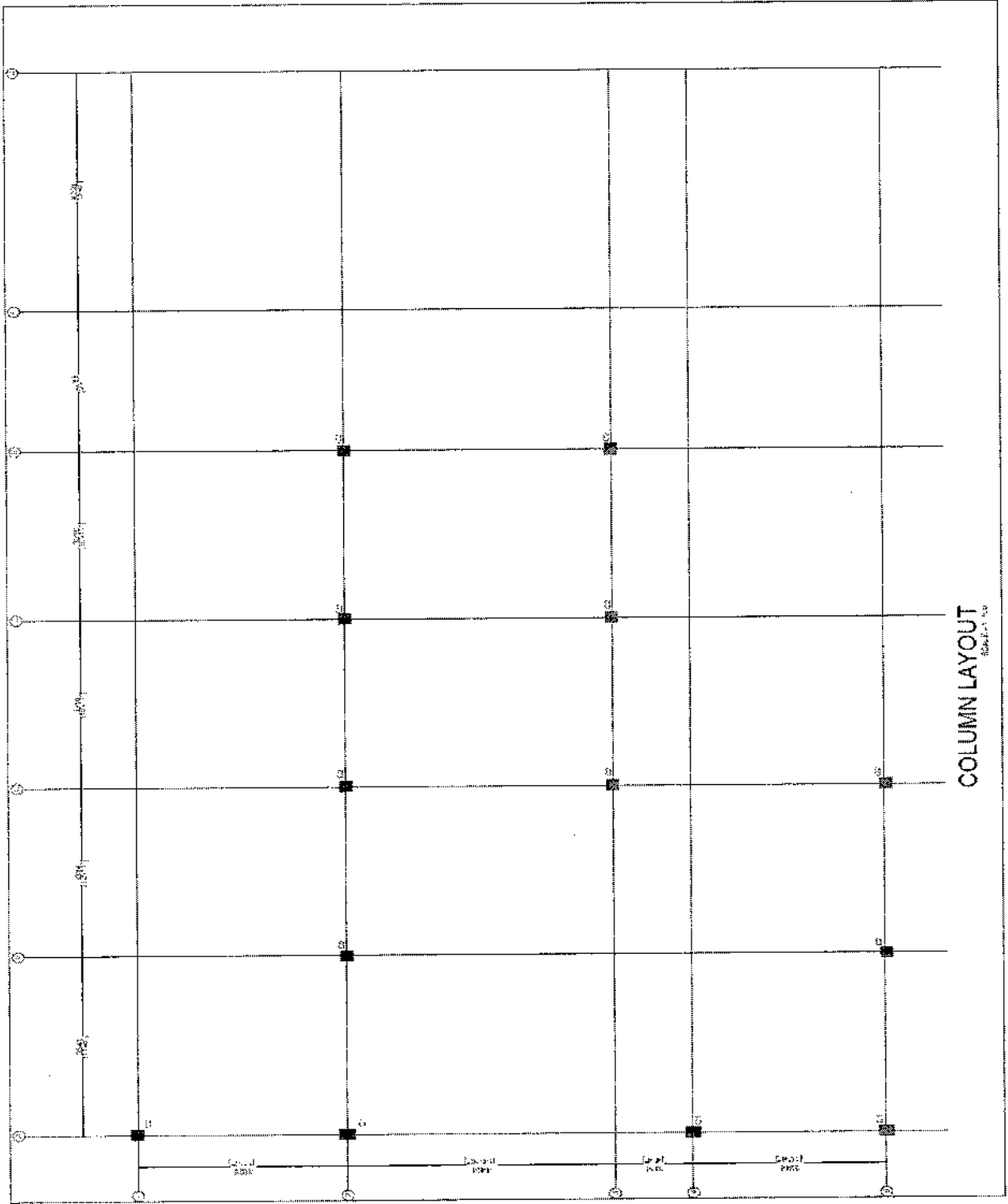
PROPOSED FLOOR PLAN - REFERENCE LAYOUT
SERIES AT 1/4"

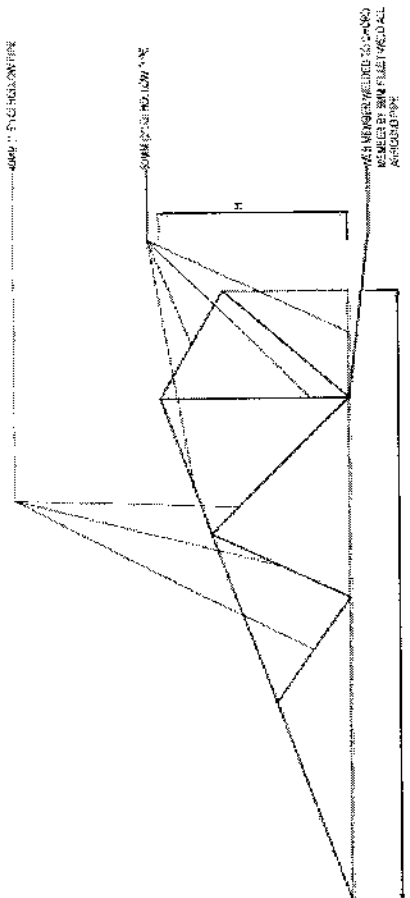
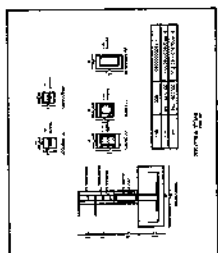




LOCATION & EXISTING FLOOR PLAN
SCALE: 1:100

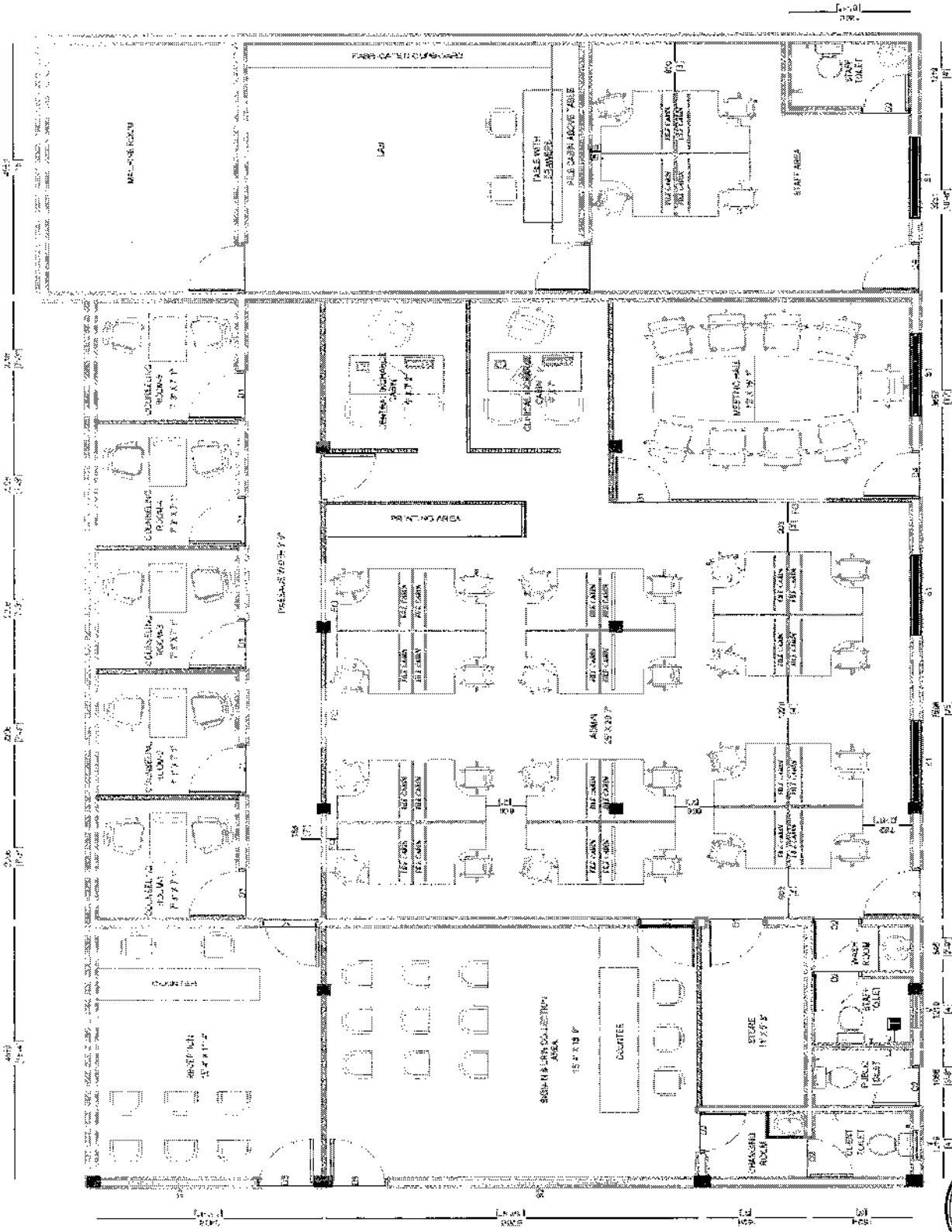






ROOF TRUSS - RT LAYOUT
SCALE: 1/100





PROPOSED FLOOR PLAN - FLOOR PLAN
SCALE: 1:120





