

Item	Description	Qty	Unit	Rate	Amount (GH¢)
	<u>BILLS OF QUANTITIES FOR CONSTRUCTION OF PROPOSED EARLY CHILDHOOD DEVELOPMENT CENTRE FOR CHILDREN BELIEVE.</u>				
	<u>BILL NO.2:- MAIN WORKS</u>				
	<u>SUBSTRUCTURE (All- Provisional)</u>				
	<u>Site Preparation</u>				
A	Clear site of all bushes, shrubs, undergrowth and the like, grub up roots and clear or burn rubbish on site.	440	m ²		
	<u>Excavation and Earthwork</u>				
C	Excavate oversite to remove vegetable soil average 150mm deep, load, deposit, spread and level on site	378	m ²		
D	Excavate pits to receive column bases average depth not exceeding 1.5m starting from formation level	16	m ³		
E	Excavate trenches to receive strip foundations average depth not exceeding 1.5m, starting from stripped level	57	m ³		
F	Extra over normal excavation for excavating through rocks or hardpan laterite. (Provisional qty)	10	m ³		
G	Backfill around foundation with selected excavated material well rammed in layers	48	m ³		
H	Remove surplus excavated material from site	25	m ³		
	<u>Hardcore filling</u>				
J	Approved hardcore filling to make up levels under bed well rammed and consolidated in 225mm layers	128	m ³		
	<u>Concrete work</u>				
	<u>Plain in-situ concrete (1:4:8-38mm aggregate) as described in:</u>				
L	50mm Thick blinding	16	m ²		
	<u>Plain in-situ concrete (1:3:6-20mm aggregate) as described in:</u>				
M	Strip Foundation	14	m ³		

N	125mm Thick floor bed	237	m ²	GH¢	
P	Steps/Ramp	1	m ³		
Carried To Collection					
<u>Reinforced in-situ concrete (1:2:4-19mm aggregate) as described in:</u>					
A	Column bases	4	m ³		
B	Columns	1	m ³		
C	Ground beam	8	m ³		
<u>Reinforcement</u>					
<u>Mild steel round bar reinforcement to BS 4449 as described in:</u>					
E	12mm Diameter bars in column bases	263	kg		
F	12mm Diameter bars in column	189	kg		
G	8mm diameter ditto as links in columns	39	kg		
H	12mm Diameter bars in ground beam	591	kg		
J	8mm diameter ditto as stirrups in ground beam	126	kg		
<u>Formwork</u>					
<u>Sawn Formwork to:</u>					
K	Vertical sides of columns	23	m ²		
L	Vertical sides of ground beam	102	m ²		
M	Steps/Ramp	5	m ²		
N	Edges of floor bed, 125mm thick	106	m		
<u>Blockwork</u>					
<u>Solid sandcrete blockwork in cement and sand (1:4) mortar as described in:</u>					
P	150mm Thick wall	131	m ²		
Carried To Collection				GH¢	

	<u>COLLECTION</u> Page 2/1 Page 2/2 <u>SUBSTRUCTURE</u> Carried To Summary				
	<u>SUPERSTRUCTURE</u> <u>CONCRETE WORK</u> <u>Reinforced in-situ vibrated concrete (1:2:4-19mm aggregate) as described in:</u> A Columns 2 m³ B Beams/Lintels 7 m³ <u>Reinforcement</u> <u>Mild steel round bar reinforcement to BS 4449 cut, bent and fixed into position as described in:</u> C 12mm Diameter bars in column 371 kg D 8mm Diameter ditto as links 53 kg E 12mm Diameter bars in beams/lintels 565 kg F 6mm Diameter ditto as stirrups 120 kg <u>Formwork</u> <u>Sawn Formwork to:</u> G Vertical sides of columns 60 m² H Vertical sides and soffit of beams/lintels 119 m² <u>CONCRETE WORK</u> Carried To Summary				

	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement and sand (1:4) mortar as described in:</u>				
	A 125mm Thick walls	344	m ²		
	B Ditto - Gable walls	69	m ²		
	C Decorative screen wall comprising 250 x 300 x 125mm thick blocks finished fair on all exposed surfaces	6	m ²		
	<u>BLOCKWORK</u> Carried To Summary				
	<u>ROOFING</u>				
	<u>Corrugated or troughed sheet roofing</u>				
	A 0.50mm Corrugated aluzinc sheet roofing laid with two corrugations side laps and fixed to hardwood purlins at 1050mm centres with aluminium drive screws and washers in accordance with manufacturer's instructions.	296	m ²		
	B 0.45mm Pre-formed corrugated aluzinc ridge cap, 450mm girth and fixed to hardwood with drive screws and washers	38	m		
	C Ditto - valley gutter 600mm girth -do.	7	m		
	D Pre-fabricated rain gutter fixed to fascia board including 75mm diameter pvc down pipes with all accessories to match	19	m		
	<u>Bituminous Felt</u>				
	E One layer of bituminous felt laid on blockwork, 225mm wide	82	m		
	<u>ROOFING</u> Carried to Summary			GH¢	

	<u>CARPENTRY</u>				
	<u>Structural Timber</u>				
	<u>Sawn treated hardwood</u>				
	A 50 X 150mm Ridge board/ Hip rafter	38	m		
	B 50 X 150mm Rafters	342	m		
	C 50 X 100mm Purlins	475	m		
	D 50 X 150mm Valley rafters	13	m		
	E 50 x 50mm Ceiling joist/noggings	803	m		
	F 50 x 50mm Hangers	167	m		
	<u>The following in 4 No. Roof trusses size 10840mm span x 1964mm rise overall</u>				
	G 50 X 150mm Bottom chord	67	m		
	H 50 X 150mm Top chord	77	m		
	J 50 X 100mm Struts	106	m		
	<u>Carpenter's Metal Work</u>				
	K 8mm Diameter x1800mm long mild steel bar cast into concrete beam and tied round hardwood timber as roof anchorage	72	No		
	<u>CARPENTRY</u> Carried to Summary			GH¢	
	<u>JOINERY</u>				
	<u>Facia/Verge Boarding</u>				
	A 25 X 250mm Facia board	83	m		
	<u>Fillets, Glazing Beads and Grounds</u>				
	<u>Frame, Sills and Kerbs</u>				
	<u>Frames</u>				
	B 50x150mm Frames plugged to blockwork or concrete	16	m		

C	50x150mm Mullions and transomes	3	m	GH¢	
	<u>Fillets, Glazing Bead and Grounds</u>				
	<u>Wrot hardwood</u>				
D	12 X 50mm Window battens	19	m		
E	12 X 50mm Ceiling battens	803	m		
F	19 X 19mm fillets	8	m		
<u>JOINERY</u>					
Carried To Summary					
<u>METAL WORK</u>					
<u>Work in plates, bars, sections and tubes</u>					
<u>Burglar proof</u>					
A	16mm Diameter mildsteel bars cut to length and threaded through frames as burglar proof including boring through 50mm hardwood	27	m		
<u>Doors/Windows</u>					
<u>Metal door/window comprising 38 x 38mm square steel welded together as main frame and 25 x25mm subframe covered with 3mm thick galvanised metal plate fixed to blockwork with hinges and locking devices including 3-coats of gloss oil paint to metal surfaces</u>					
B	Door size 900 x 2100mm high (D2)	8	No		
C	Ditto - size 750 x 2100mm high (D3)	1	No		
D	Window size 1600 x 1200mm high (W1)	6	No		
E	Ditto - size 1450 x 1200mm high (W2)	6	No		
<u>Work in wire mesh or expanded metal</u>					
F	50 x 50 x 3mm galvanized welded mesh cut to size and nailed to hardwood with cover battens (measured separately)	5	m ²		
<u>Standard Units</u>					
<u>Approved plastic louvre carriers with fittings firmly screwed to hardwood:</u>					

G	<u>Pair:</u> 834mm long carriers with single control and clips for 4No. 150mm wide louvre blades (measured separately)	2	Prs		
H	<u>Pair:</u> 1168mm long carriers with dual control and clips for 8No. 150mm wide louvre blades (measured separately)	4	Prs		
	<u>Sundries</u>				
J	Aluminium mosquito proof gauge cut to size and nailed to hardwood	5	m ²		
	<u>METAL WORK</u> Carried To Summary			GH¢	
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>Interconnection Cable</u>				
A	Supply and string 1 core X 10mm ² PVC insulated copper cable from consumer unit to tail of building	40	m		
	<u>Switchgear</u>				
B	Supply, fix and connect 30A SPN service cut-out complete with HRC fuses	1	set		
C	6-way SPN MCB's Consumer Unit with 100A intergrated switch HAVELLSD or approved equal and having the following single pole MCbs a. 6A MCB - 4No b. 16A MCB -4No	1	No		
D	63A residual current circuit breaker with 100mA leakage current	1	No		
E	Supply, fix and connect an earthing systems consisting of 16mm ² pvc insulated copper cable soildly bonded to the earthing terminal of switchgear and leading to and soildly bonded to 1.5mm long 20mm dia soild copper earth rod buried to a depth of 2mm below ground level	1	sys		
	<u>Wiring</u>				
	<u>Wire the following points in 20mm dia rigid pvc concealed in ceiling block work, chassis etc using the following pvc insulated copper cables</u>				
F	Lighting and fan points using 1.5 mm cable with a maximum of ten points in-loop-in	30	No		
G	13A switch socket outlet point using 2.5mm cable with a max of 4 points in a radial circuit and including 2.5mm protective conductor	10	No		

	<u>Lighting Fittings</u> <u>Supply, fix and connect the following Lighting fittings as KENT, TECHMAR or approved equal;</u>				
	H Straight batten fitting complete with 9W LED bulb	6	No		
	J Straight batten fitting complete with 12W LED bulb	3	No		
	J Straight batten fitting complete with 18W LED bulb	2	No		
	K Angle batten fitting complete with 18W LED bulb	5	No		
	L Straight batten fitting complete with 36W LED bulb	12	No		
	M 20W Wall mounted LED flood light	2	No		
					C/FWRD
	<u>Ceiling Fans</u>				
	A Supply fix and connect 1400mm sweep ceiling fan complete with regulator as Crompton-Greaves Aura or approved equal	13	No		
	<u>Acessories</u> <u>Supply, fix and connect the following accessories as MEM, MK or approved equal</u>				
	B 1- way, 1- gang 10A flush mounted switch	8	No		
	C 1-way, 2-gang, 10A flush mounted switch	1	No		
	<u>Socket Outlets</u>				
	D Supply and fix 1 X 13A, rectangular hole 240V 50Hz switch socket with pilot lamp	2	No		
	E Supply and fix 2 X 13A, rectangular hole 240V 50Hz switch socket with pilot lamp	8	No		
	<u>Testing</u>				
	F Test the installation above to conform with Energy Commission rules and regulations including energy meter installation	1	Item		
<u>ELECTRICAL INSTALLATIONS</u> Carried To Summary					GH¢

<u>PLASTER WORK AND OTHER FLOOR, WALL AND CEILING FINISHINGS</u>					
<u>In-situ Finishings</u>					
<u>12mm Thick cement and sand (1:4) render on:</u>					
A	Concrete/ Blockwork surface	751	m ²		
B	Steps/Ramp	13	m ²		
<u>White Board</u>					
C	White board with size 3600mm x 1200mm	2	No.		
<u>Screeded paving</u>					
D	50mm Thick cement and sand (1:3) bed laid level on concrete and trowelled hard and smooth.	224	m ²		
<u>Plain Sheet Finishing</u>					
E	6mm Thick plywood ceiling nailed to soffit of hardwood	299	m ²		
<u>PLASTERWORK, ETC.</u> Carried To Summary				GH¢	
<u>GLAZING</u>					
<u>Glass louvre blades</u>					
A	6mm x 150mm Wide clear/obscure glass louvre blade with long edge slightly rounded and ends fixed in clips of carriers (exceeding 750mm but not exceeding 900mm long).	40	No		
<u>GLAZING</u> Carried to Summary				GH¢	
<u>PAINTING AND DECORATING</u>					
<u>Prepare and apply two undercoats and one finishing coat of "Acrylic" emulsion paint or other approved equal on:</u>					

B	Rendered surfaces	764	m ²	GH¢	
C	Plywood surfaces	299	m ²		
	<u>Knot, Prime, Stop and Paint two undercoats and one finishing coat of gloss oil paint on:</u>				
D	General surfaces of hardwood	21	m ²		
	<u>PAINTING AND DECORATING</u> Carried To Summary				
	<u>BILL NO.2:- MAIN WORKS</u>				
	<u>SUMMARY</u>				
A	SUBSTRUCTURE				
	<u>SUPERSTRUCTURE</u>				
B	CONCRETE WORK				
C	BLOCKWORK				
D	ROOFING				
E	CARPENTRY				
F	JOINERY				
G	METAL WORK				
H	ELECTRICAL INSTALLATIONS				
H	PLASTERWORK, WALL AND CEILING FINISHINGS				
H	GLAZING				
J	PAINTING AND DECORATING				

	<u>BILL NO.2:- MAIN WORKS</u> Carried To General Summary			GH¢	
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EXTERNAL WORKS

Item	Description	Qty	Unit	Rate	Amount (GH¢)
	<u>BILL NO.3:- EXTERNAL WORKS</u>				
	<u>DWAF FENCE WALL</u>				
	<u>EXCAVATION AND EARTHWORKS</u>				
A	Excavate trench not exceeding 1.50m commencing at ground level	5	m ³		
B	Ditto - pits to receive column bases depth not exceeding 1.50m - do	2	m ³		
C	Backfill selected excavated material around foundations	3	m ³		
D	Remove surplus excavated material from site	4	m ³		
	<u>CONCRETEWORK</u>				
	<u>Plain in-situ concrete (1:4:8-38mm aggregate) as described in:</u>				
E	50mm Blinding layer	3	m ²		
	<u>Plain in-situ concrete (1:3:6-20mm aggregate) as described in:</u>				
F	Foundation	2	m ³		
G	Ramp	1	m ³		
	<u>Reinforced in-situ concrete (1:2:4-19mm aggregate) as described in:</u>				
H	Column & Column bases	2	m ³		
J	Ground beam	1	m ³		
K	250 x 75mm Thick coping	15	m		
	<u>Reinforcement</u>				
	<u>Mild steel round bar reinforcement to BS 4449 as described in:</u>				
L	12mm Diameter bars in column bases	45	kg		
M	16mm Diameter bars in column	56	kg		
N	12mm Diameter bars in column	42	kg		
P	10mm diameter ditto as links in columns	3	kg		
Q	8mm diameter ditto as links in columns	3	kg		
R	12mm Diameter bars in ground beam	65	kg		

S	8mm diameter ditto as stirrups in ground beam	12	kg	GH¢	
T	8mm Diameter bars as links in coping	10	kg		
	C/FWRD				
	B/FWRD				
	<u>FORMWORK</u>				
A	Vertical sides of columns	16	m ²		
B	Ditto - ground beam	9	m ²		
C	Sides and soffit of coping	5	m ²		
D	Formwork to edges of ramp	2	m ²		
	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement and sand (1:4) mortar in;</u>				
E	150mm thick wall	11	m ²		
F	Decorative screen wall comprising 250 x 300 x 125mm thick blocks finished fair on all exposed surfaces	24	m ²		
	<u>METAL WORK</u>				
	<u>Work in plates, bars, sections and tubes.</u>				
G	Metal gate size 3350 x 2250mm high complete with all necessary ironmongery	1	No.		
	<u>PLASTERWORK, ETC.</u>				
	<u>Rendering</u>				
H	15mm thick Cement and sand (1:4) rendering to concrete/ blockwork	28	m ²		
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply two undercoats and one finishing coat of "Acrylic" emulsion paint or approved equal on:</u>				
A	Concrete/ blockwork	86	m ²		
	<u>Knot, Prime, Stop and Paint two undercoats and one finishing coat of gloss oil paint on:</u>				
K	General surfaces of metal work	17	m ²		
	<u>DWAF FENCE WALL</u>				
	Carried To Summary			GH¢	

	<u>APRON AND DRAIN</u>				
	<u>EXCAVATION AND EARTHWORKS</u>				
A	Excavate trench not exceeding 1.50m commencing at ground level	15	m ³		
B	Backfill selected excavated material around foundations	5	m ³		
C	Remove surplus excavated material from site	10	m ³		
	<u>HARDCORE FILLING</u>				
D	Approved imported laterite filling to make up levels under aprons	14	m ³		
	<u>CONCRETEWORK</u>				
	<u>Plain in-situ concrete (1:3:6-20mm aggregate) as described in:</u>				
E	Foundation	5	m ³		
F	75mm thick Bed in apron	47	m ²		
	<u>FORMWORK</u>				
G	Formwork to edges of bed 75mm wide	78	m		
	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement and sand (1:4) mortar in:</u>				
H	125mm thick wall	42	m ²		
	<u>PLASTERWORK, ETC.</u>				
	<u>Rendering</u>				
J	15mm thick Cement and sand (1:4) rendering to walls	53	m ²		
	<u>APRON AND DRAIN</u>				
	Carried To Summary			GH¢	

	<u>COMPOUND GRAVELLING & SAND BED</u>				
	<u>Compound Graveling</u>				
A	Approved imported laterite material spread, graded and well consolidated with roller to falls and crossfalls and watered where necessary to 100% compaction as compound graveling	30	m ³		
	<u>Sand Bed</u>				
B	150mm thick approved imported sand filling, levelled and well compacted on gravel bed as children play ground	84	m ²		
	<u>COMPOUND GRAVELLING & SAND BED</u>				
	Carried to Summary			GH¢	
	<u>BILL NO. 3: EXTERNAL WORKS</u>				
	<u>SUMMARY</u>				
A	DWAF FENCE WALL				
B	APRON AND DRAINS				
C	COMPOUND GRAVELLING & SAND BED				
	<u>BILL NO. 3: EXTERNAL WORKS</u>				
	Carried To General Summary			GH¢	

GENERAL SUMMARY

Item	Description	Qty	Unit	Rate	Amount (GH¢)
	<u>BILLS OF QUANTITIES FOR CONSTRUCTION OF PROPOSED EARLY CHILDHOOD DEVELOPMENT CENTRE FOR AG CARE GHANA</u>				
	<u>GENERAL SUMMARY</u>				
	<u>BILL NO. 1-</u> PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT				
	<u>BILL NO. 2-</u> MAIN ECD BLOCK				
	<u>BILL NO. 3:-</u> EXTERNAL WORKS				
	SUB-TOTAL			GH¢	
	<u>ADD:</u> - CONTINGENCIES - 5%				
	<u>GRAND TOTAL</u> Total Estimated Cost of Works			GH¢	

Item	Description	Qty	Unit	Rate (GH¢)	Amount (GH¢)
	<u>BILLS OF QUANTITIES FOR CONSTRUCTION OF PROPOSED 4-SEATER KVIP FOR CHILDREN BELIEVE.</u>				
	<u>BILL NO.2: 4-SEATER KVIP</u>				
	<u>ELEMENT 1: SUBSTRUCTURE (PROVISIONAL)</u>				
	<u>Site Preparation</u>				
A	Clear site of all bushes and remove shrubs	84	m ²		
B	Excavate oversite to remove vegetable soil average 150mm deep, load, deposit, spread and level on site	84	m ²		
	<u>Excavation and Earthwork</u>				
C	Excavate trenches to receive strip foundations average depth not exceeding 1.5m, starting from stripped level	7	m ³		
D	Ditto commencing 2.00m below ground level	6	m ³		
E	Excavate pits to receive column bases average depth not exceeding 1.5m starting from formation level	7	m ³		
F	Excavate KVIP toilet pits not exceeding 1.5m starting from formation level	53	m ³		
G	Ditto over 1.50m but not exceeding 3.0m deep ditto	17	m ³		
H	Extra over normal excavation for excavating through hardpan laterite	5	m ³		
J	Backfilling selected excavated material around foundations	23	m ³		
K	Remove surplus excavated material from site	69	m ³		
	<u>Hardcore filling</u>				
L	Approved hardcore filling to make up levels under floors	7	m ³		

<u>Concrete work</u>					
<u>Plain in-situ concrete grade 15 as described in:</u>					
M	50mm Blinding layer	5	m ²	GH¢	
N	Foundation	2	m ³		
<u>Reinforced in-situ concrete (1:2:4-19mm aggregate) as described in:</u>					
A	Column bases	1	m ³		
B	Columns and stiffening beam	1	m ³		
C	125mm Thick floor bed	22	m ²		
<u>Reinforcement</u>					
<u>Mild steel round bar reinforcement to BS 4449 as described in:</u>					
D	12mm Diameter bars in column bases	98	kg		
E	12mm Diameter bars in column	116	kg		
F	8mm Diameter ditto	24	kg		
G	12mm Diameter bars in beam	28	kg		
H	8mm Diameter ditto	11	kg		
<u>Formwork</u>					
<u>Sawn Formwork to:</u>					
J	Vertical sides of columns	15	m ²		
K	Sides and soffit of beams	6	m ²		
L	Edges 125mm Thick Bed	49	m		
<u>Precast concrete grade 20</u>					
M	1225 x 300 x 75mm Thick slab rebated on long edge containing approximately 4.2kg of mild steel round bar reinforcement and 1 No. hole for 100mm diameter PVC pipe	17	No		
N	1262 x 310 x 75mm Thick over all L-shape slab rebated on long edge containing approximately 4.2kg of mild steel round bar reinforcement and 1No. Hole for 100mm diameter PVC pipe	17	No		

	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement and sand (1:4)</u>				
	A 150mm wall	22	m ²		
	B 225mm wall	53	m ²		
	C Form 50 x 300mm holes in 150mm peripheral	5	No		
	<u>SUBSTRUCTURE</u>				
	Carried To Summary			GH¢	
	<u>SUPERSTRUCTURE</u>				
	<u>ELEMENT 2: REINFORCED CONCRETE WORK FRAME</u>				
	<u>Reinforced in-situ vibrated concrete (1:2:4-19mm aggregate in:</u>				
	A Column, lintels and tie beam	2	m ³		
	<u>Mild steel round bar reinforcement in:</u>				
	B 12mm Diameter bars in column	48	kg		
	C 8mm Diameter ditto	11	kg		
	D 12mm Diameter bars in beam / lintel	81	kg		
	E 8mm Diameter ditto	26	kg		
	<u>Formwork</u>				
	<u>Sawn Formwork to:</u>				
	F Sides and soffit of Lintel	11	m ²		
	G Sides of column	8	m ²		
	<u>REINFORCED CONCRETE FRAME</u>				
	Carried To Summary			GH¢	

<u>ELEMENT 3: MASONRY</u>					
<u>Solid sandcrete block in cement and sand (1:4) in:</u>					
A	125mm wall	73	m ²		
<u>Sundries</u>					
B	Form 75 x 225mm vent holes in thick sandcrete blockwork wall	7	No		
<u>MASONRY</u> Carried To Summary				GH¢	
<u>ELEMENT 4: ROOFING</u>					
C	0.50mm Corrugated Aluzinc sheet roofing laid with two corrugations side laps and fixed to hardwood purlins at 1050mm centres with aluminium drive screws and washers in accordance with manufacturer's instructions.	25	m ²		
<u>Sawn Treated Hardwood:</u>					
D	50 X 100mm Sprockets	22	m		
E	50 X 150mm Purlins	31	m		
<u>Wrot Hardwood</u>					
F	25 x 250mm Fascia board	20	m		
<u>ROOFING</u> Carried To Summary				GH¢	
<u>ELEMENT No. 5: METAL DOORS</u>					
<u>Doors</u>					
<u>Metal door and window comprising 25 x 25mm square steel welded together as frame and covered with 6mm thick galvanised metal plate fixed to hardwood frames including painting, hinges and locking devices to match;</u>					
A	Door size 900 x 2100mm high	6	No.		
<u>METAL DOORS</u> Carried To Summary				GH¢	

	<u>ELEMENT 6: PLUMBING INSTALLATIONS</u>				
	<u>Sanitary Installation</u>				
	<u>Soil and vent pipework</u>				
	<u>Unplasticized PVC pipework and fittings to BS 4514: 1969 buried in blockwork or fixed to blockwork with PVC clips</u>				
	C 100mm Diameter Vent pipe supported with pipe clips at 1200mm centres	22	m		
D	Extra for 100mm bend	7	No		
E	Extra for 100mm vent cap	7	No		
	<u>PLUMBING INSTALLATIONS</u> Carried To Summary			GH¢	
	<u>ELEMENT No. 7: WALL, FLOOR AND CEILING FINISHINGS</u>				
	<u>12mm Thick cement and sand (1:4) render on:</u>				
	A Wall	150	m ²		
	<u>Screeded paving</u>				
	C 50mm Thick cement and sand (1:3) bed laid level on concrete and trowelled hard and smooth.	15	m ²		
	<u>Cement and sand (1:3)</u>				
	C 25mm Thick benching on urinal slab	4	m ²		
	D 38mm Thick trowelled paving	15	m ²		
E	Extra over 25mm thick benching for forming 150mm diameter channel	8	m		
	<u>ELEMENT No. 7: WALL, FLOOR AND CEILING FINISHINGS</u> Carried To Summary			GH¢	

	<u>ELEMENT 8: FITTING AND FIXTURES</u>				
	<u>Squat slabs</u>				
	F Precast concrete grade 20 in squat slab 1100 x 500 x 50mm thick with 2No. Drop holes 200mm in diameter (containing approximately 6.7kg of mild steel round bar reinforcement) set on of dwarf wall and chiselled into main wall	4	No		
	<u>Cover slab</u>				
	G Precast concrete grade 20 in cover slab 300 x 300 x 50mm with lifting handle (containing approximately 1.07kg of mild steel round bar reinforcement) fixed to squat slab with cement and sand mortar (1:3)	4	No		
	<u>Cover Board</u>				
	H 300 x 300 x 25mm Thick timber cover board with 100 x 25 x 50mm handle	4	No		
	<u>ELEMENT 8: FITTING AND FIXTURES</u> Carried To Summary			GH¢	
	<u>ELEMENT 9: PAINTING AND DECORATING</u>				
	<u>Prepare and apply two undercoats and one finishing coat of "Acrylic" emulsion paint or approved equal on:</u>				
	A Rendered walls	150	m ²		
	<u>Prepare and apply two undercoat and one finishing coat of gloss oil paint on:</u>				
	D Rendered walls	21	m ²		
	<u>Knot, Prime, Stop and Paint two undercoats and one finishing coat of gloss oil paint on:</u>				
	E General surfaces (Doors)	8	m ²		
	H Fascia or barge board not exceeding 300mm girth	10	m ²		
	<u>ELEMENT 9: PAINTING AND DECORATING</u> Carried To Summary			GH¢	

A B C D E F G H J	<u>BILL NO.2: 4-SEATER KVIP</u>				
	<u>SUMMARY</u>				
	ELEMENT 1: SUBSTRUCTURE				
	ELEMENT 2: REINFORCED CONCRETE WORK FRAME				
	ELEMENT 3: MASORY				
	ELEMENT 4: ROOFING				
	ELEMENT 5: METAL DOORS				
	ELEMENT 6: PLUMBING INSTALLATIONS				
	ELEMENT 7: WALL, FLOOR AND CEILING FINISHINGS				
	ELEMENT 8: FITTING AND FIXTURES				
	ELEMENT 9: PAINTING AND DECORATING				
	<u>BILL NO.2: 4-SEATER KVIP</u>				
	Carried To General Summary			GH¢	
	<u>BILLS OF QUANTITIES FOR CONSTRUCTION OF PROPOSED 4-SEATER KVIP FOR CB</u>				
	<u>GENERAL SUMMARY</u>				
	<u>BILL NO. 1-</u> PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT				
	<u>BILL NO. 2:-</u> 4-SEATER KVIP				
	SUB-TOTAL			GH¢	
	<u>ADD:</u> - CONTINGENCIES - 5%				
	<u>GRAND TOTAL</u>			GH¢	
	Total Estimated Cost of Works				

PROJECT:

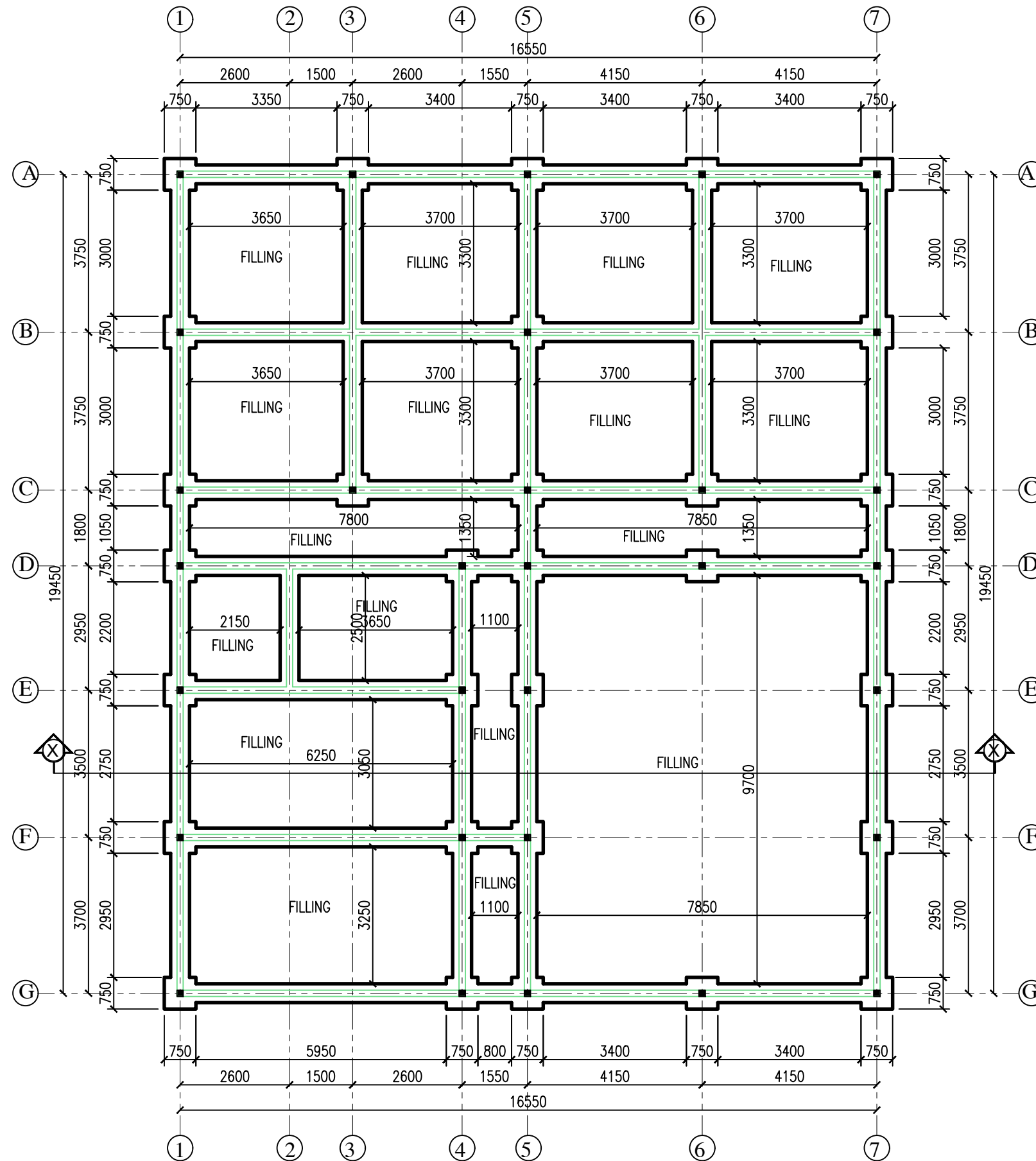
PROPOSED REVISED ECD CLASSROOM BLOCK

CLIENT: CHILDREN BELIEVE

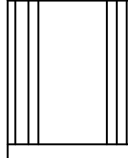
CONSULTANT: SADIPRINCE ENGINEERING CONSULT

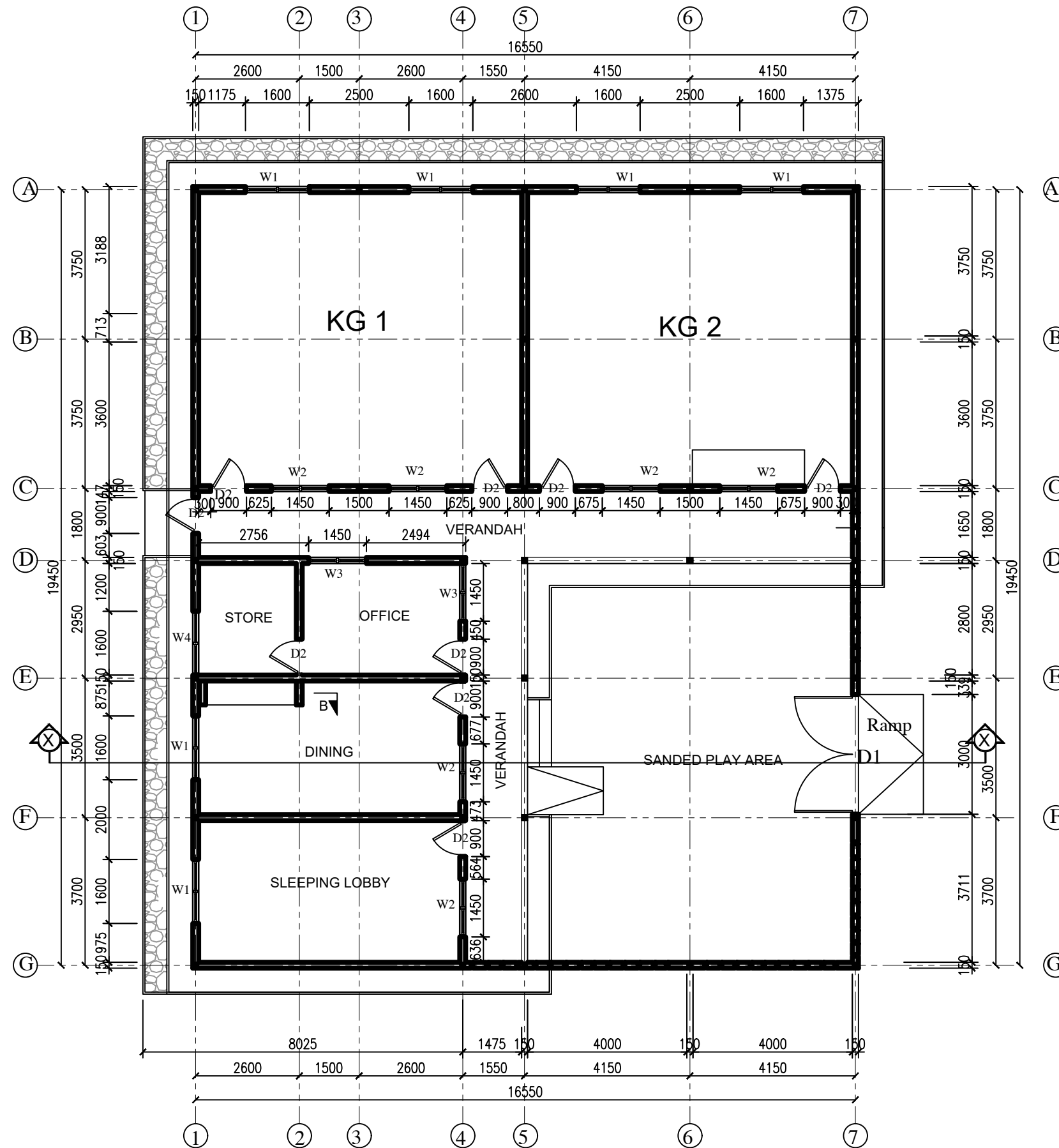
DATE:

23/11/2023



FOUNDATION PLAN

CLIENT	CHILDREN BELIEVE		
	PROJECT PROPOSED REVISED ECD CLASSROOM BLOCK		
	DWG TITLE FOUNDATION PLAN		
	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsd SADIPRINCE ENGINEERING CONSULT		SHT 001



GROUND FLOOR PLAN

CLIENT

CHILDREN BELIEVE

PROJECT
PROPOSED REVISED ECD CLASSROOM
BLOCK

DWG TITLE
GROUND FLOOR PLAN

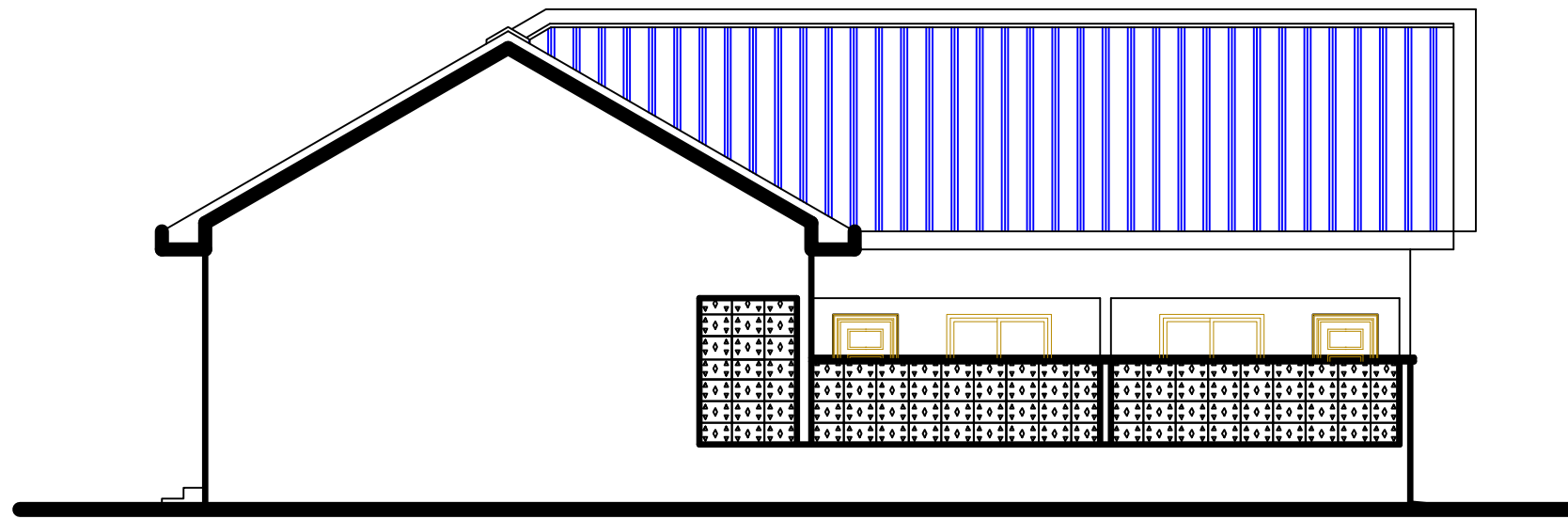
CONTACT:
0243984858

DATE
23/11/2023

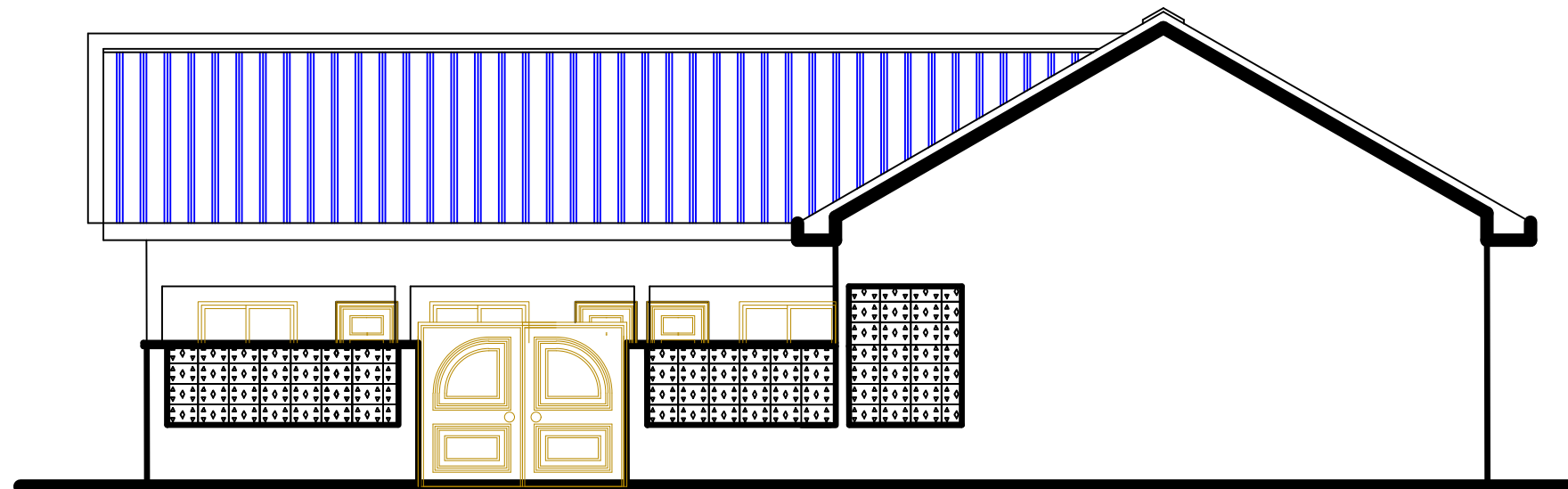
SCALE
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dwg & dsd
SADIPRINCE ENGINEERING CONSULT

SHT
002

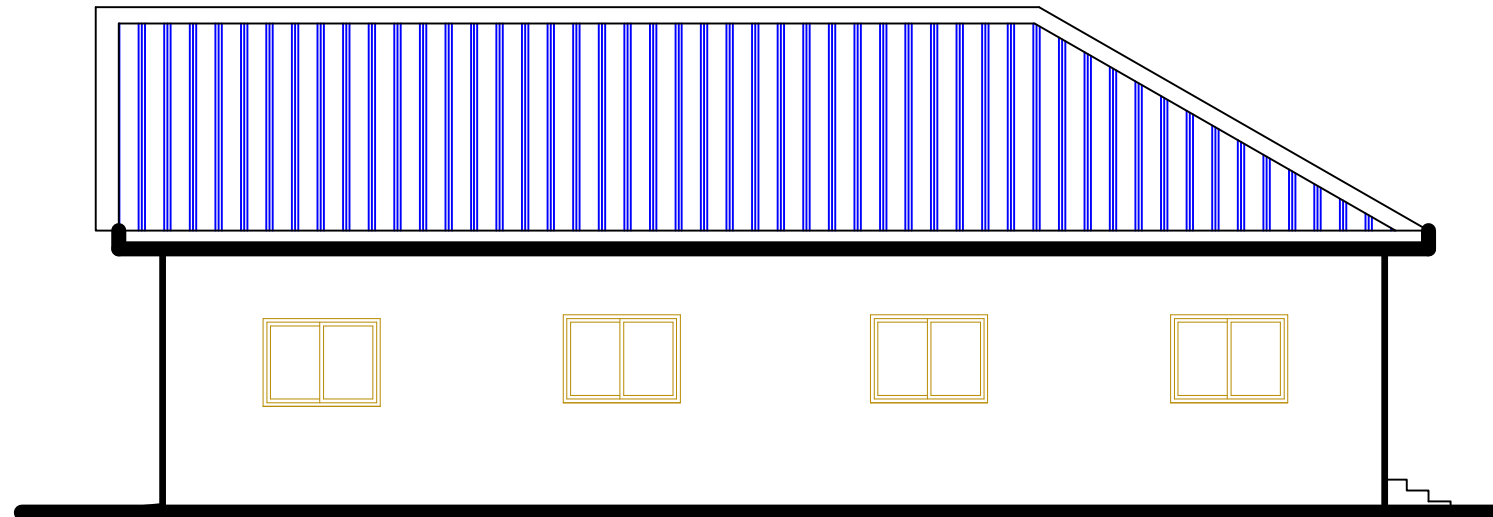


FRONT VIEW

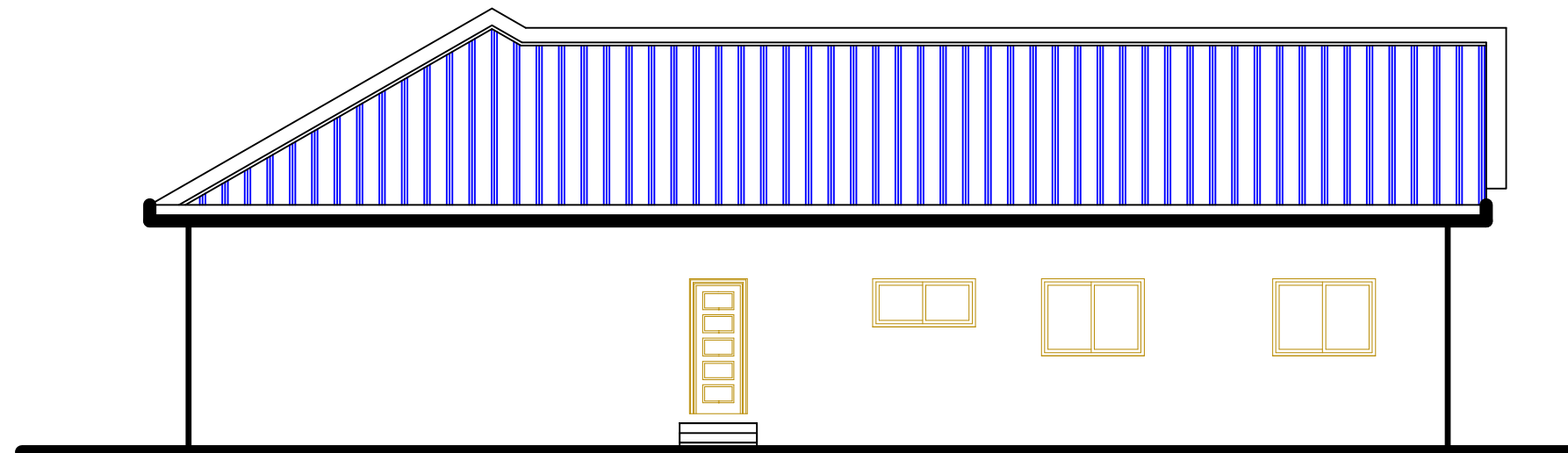


BACK VIEW

CLIENT	CHILDREN BELIEVE		
	PROJECT PROPOSED REVISED ECD CLASSROOM BLOCK		
DWG TITLE	FRONT & BACK VIEWS		
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 003
dum & dsg SADIPRINCE ENGINEERING CONSULT			

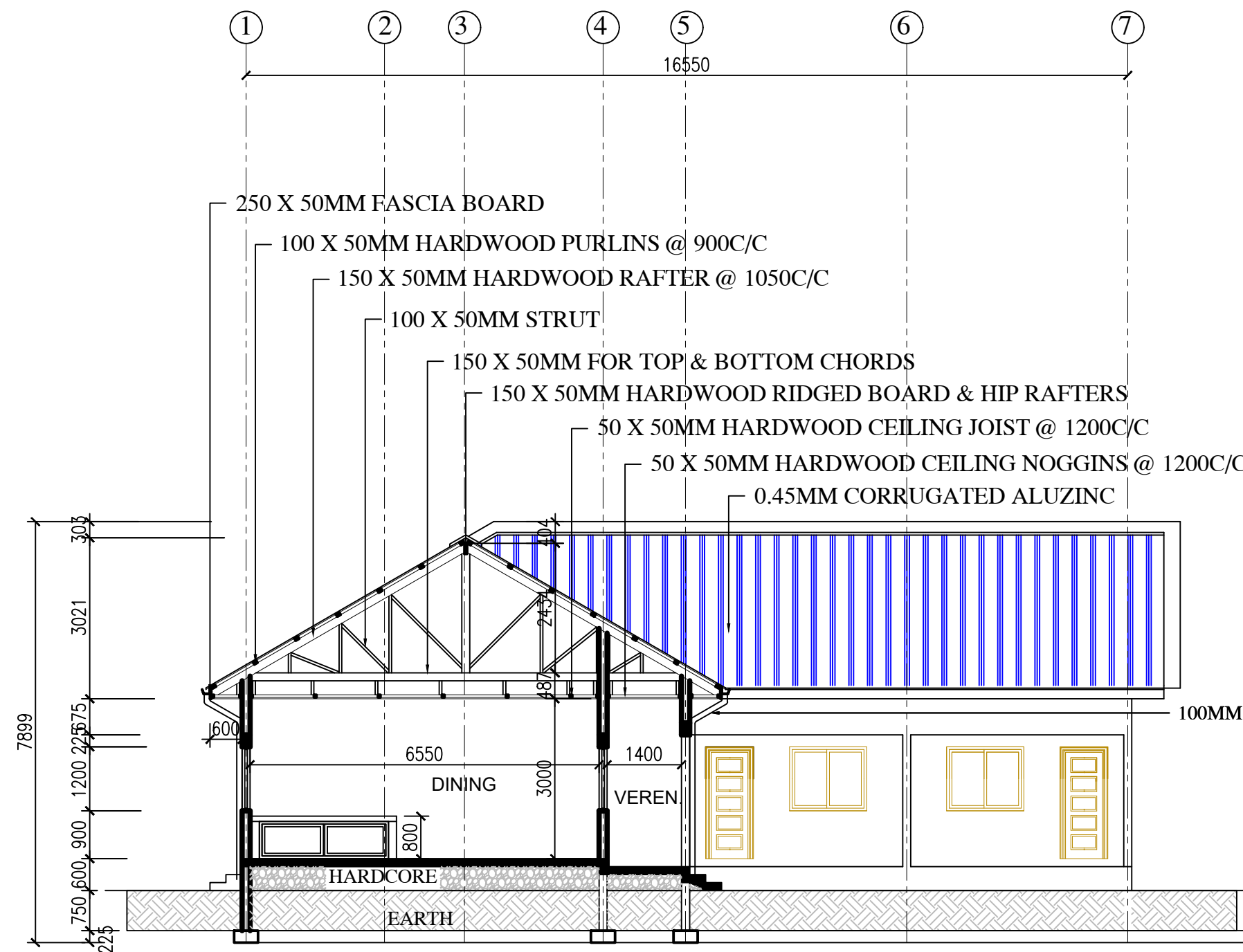


LEFT VIEW

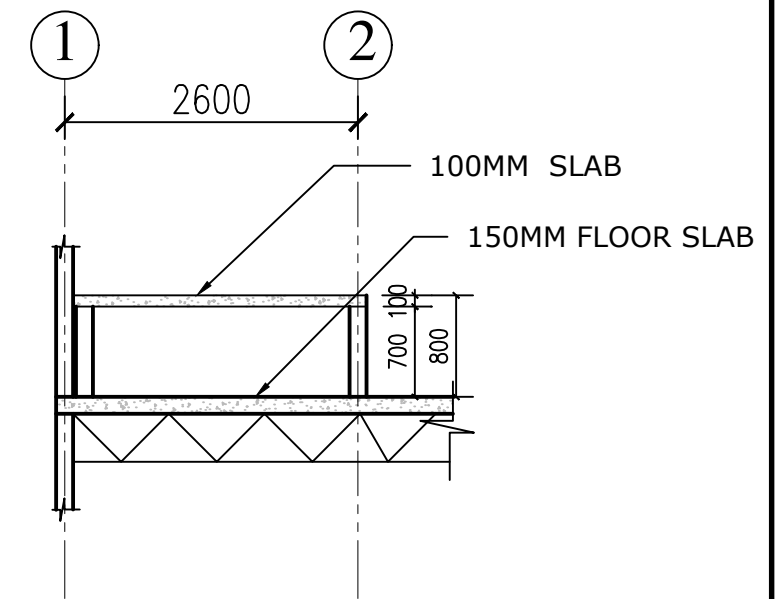


RIGHT VIEW

CLIENT			
CHILDREN BELIEVE			
PROJECT PROPOSED REVISED ECD CLASSROOM BLOCK			
DWG TITLE			
LEFT & RIGHT VIEWS			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 004
	dum & dsg SADIPRINCE ENGINEERING CONSULT		



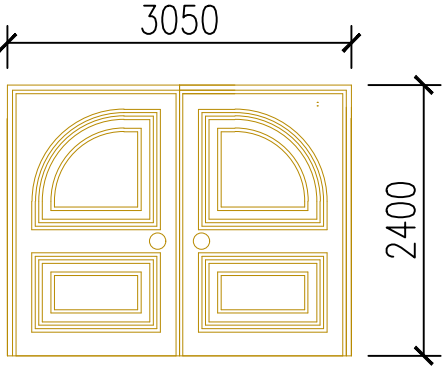
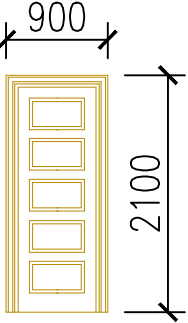
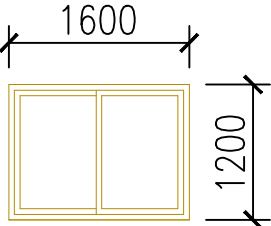
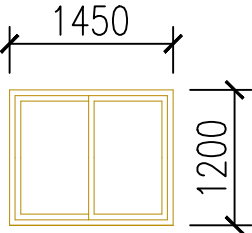
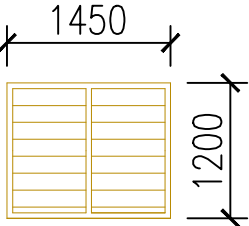
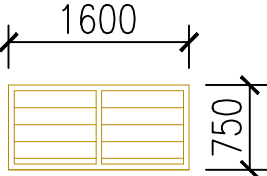
CROSS SECTION X-X



CROSS SECTION B-B

CLIENT	CHILDREN BELIEVE		
PROJECT	PROPOSED REVISED ECD CLASSROOM BLOCK		
DWG TITLE	CROSS SECTIONS		
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 005
dum & dsg SADIPRINCE ENGINEERING CONSULT			

WINDOWS & DOORS SCHEDULES

 D1, QTY= 1 METAL DOOR	 D2, QTY= 9 METAL DOOR	 W1, QTY= 6 METAL WINDOW
 W1, QTY= 6 METAL WINDOW	 W1, QTY= 2 LOUVER BLADE	 W1, QTY= 1 LOUVER BLADE

CLIENT

CHILDREN BELIEVE

PROJECT

PROPOSED REVISED ECD CLASSROOM

BLOCK

DWG TITLE

WINDOWS & DOORS SCHEDULES

CONTACT:

0243984858

DATE

23/11/2023

SCALE

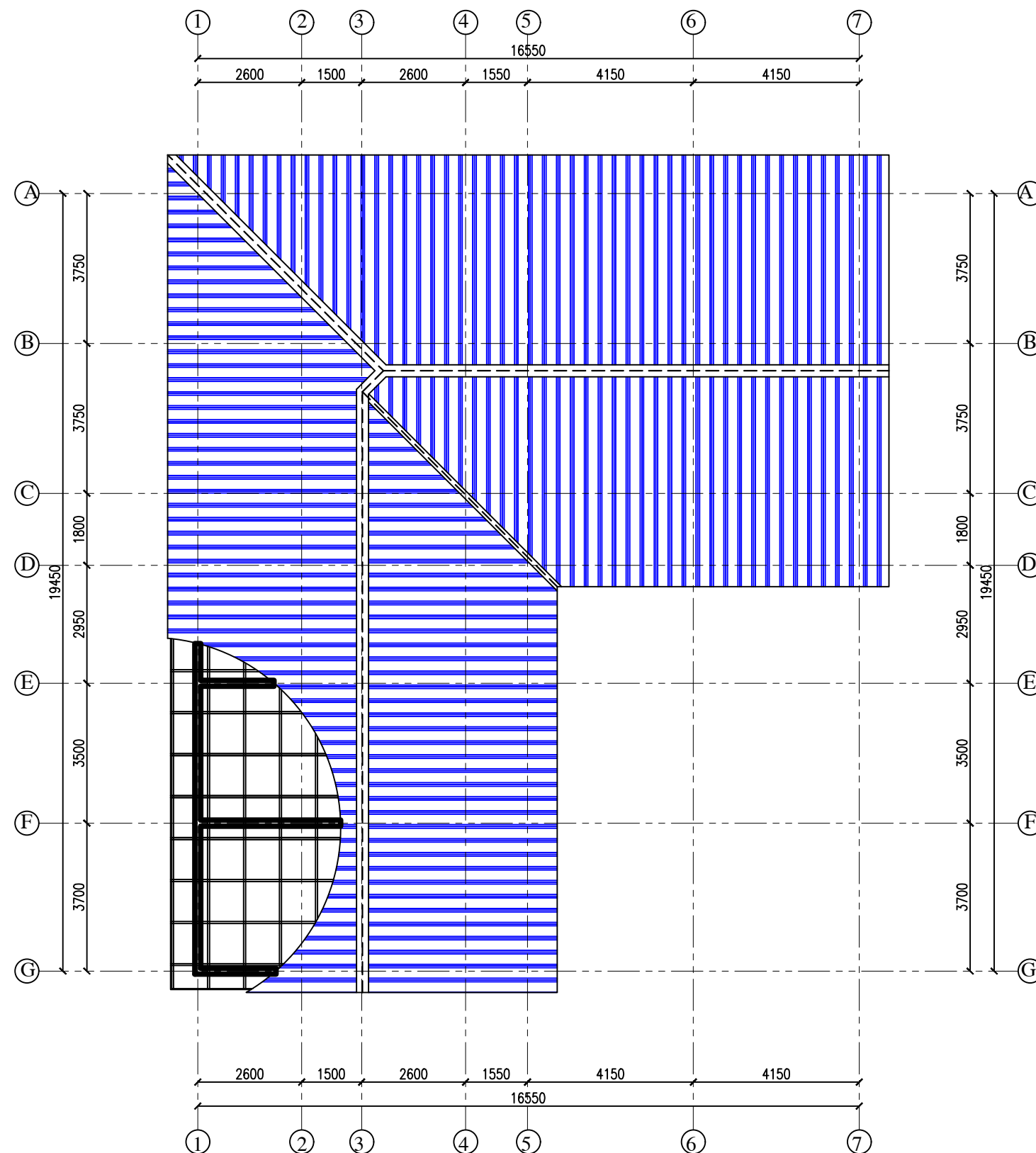
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SHT

006

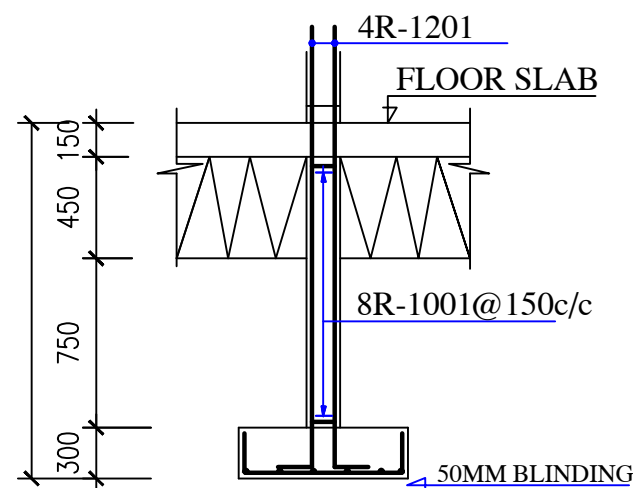
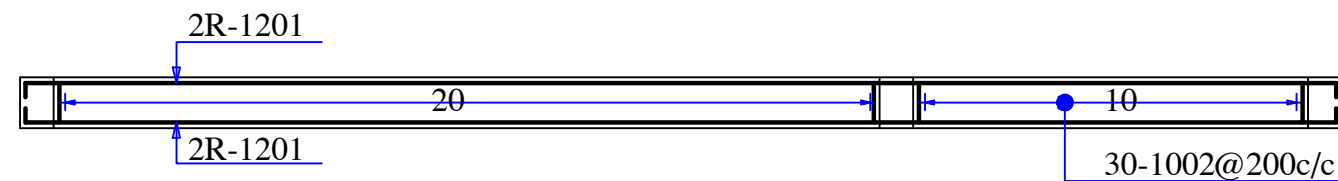
dum & dsg

SADIPRINCE ENGINEERING CONSULT

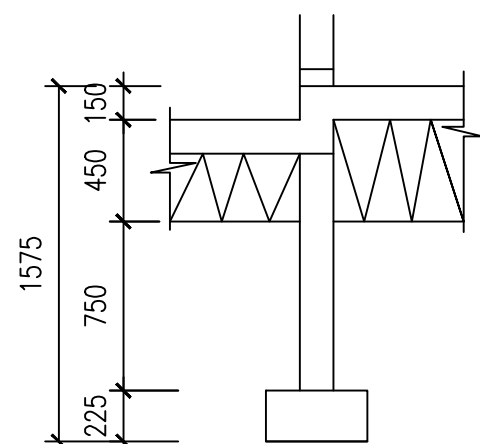
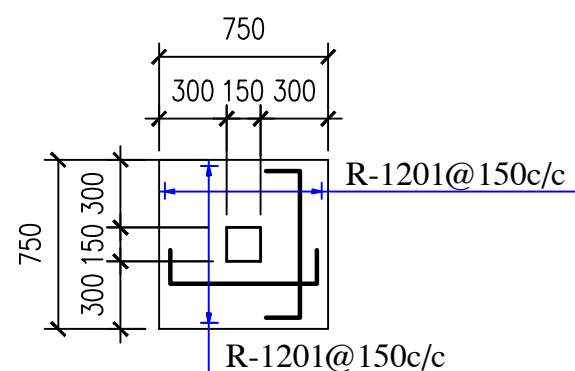


ROOF PLAN

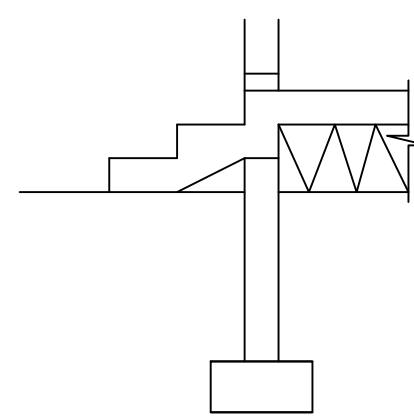
CLIENT	CHILDREN BELIEVE		
	PROJECT PROPOSED REVISED ECD CLASSROOM BLOCK		
	DWG TITLE ROOF PLAN		
	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsg SADIPRINCE ENGINEERING CONSULT		SHT 007



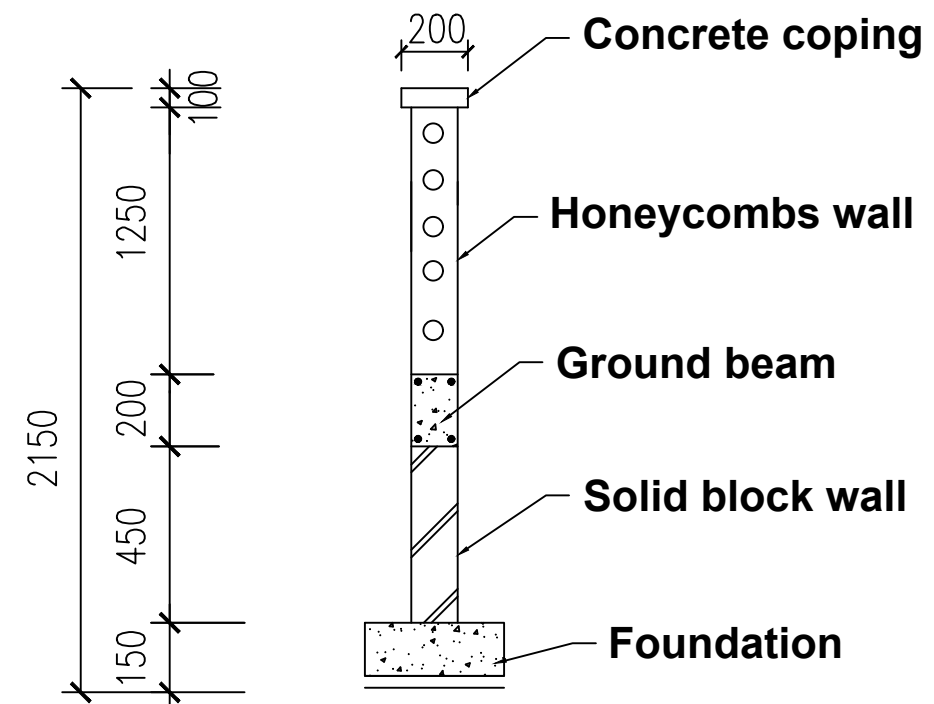
SECTION THROUGH COLUMN



SECTION THROUGH FOOTING

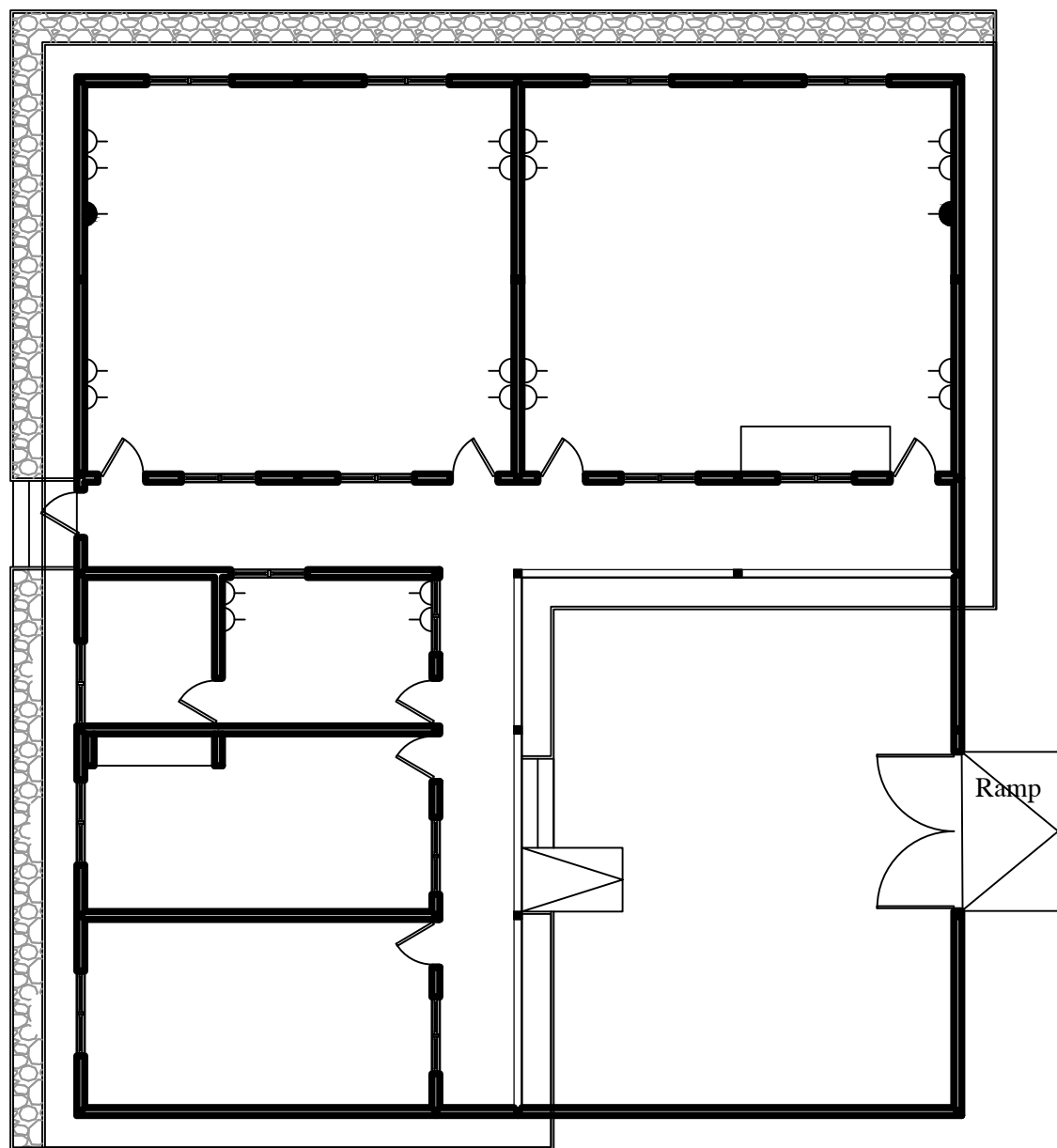


SECTION THROUGH A THRESHOLD



SECTION THROUGH COMPOUND WALL FOOTING

CLIENT	CHILDREN BELIEVE		
PROJECT	PROPOSED REVISED ECD CLASSROOM BLOCK		
DWG TITLE	Columns and Footing Details		
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 008
dum & dsg SADIPRINCE ENGINEERING CONSULT			



Legend

Symbols	Meaning
	One way one gang switch
	One way two gang switch
	Ceiling Fan regulators
	Tv regulators
	Energy saving Bulb
	13 AM socket switch
	15 AM socket switch
	Earth
	600mm Florescent tube
	1200mm Florescent tube
	Ceiling Fan
	Meter
	Distribution board
	Sport light

CLIENT

CHILDREN BELIEVE

PROJECT

PROPOSED REVISED ECD CLASSROOM BLOCK

DWG TITLE

POWER

CONTACT:
0243984858

DATE
23/11/2023

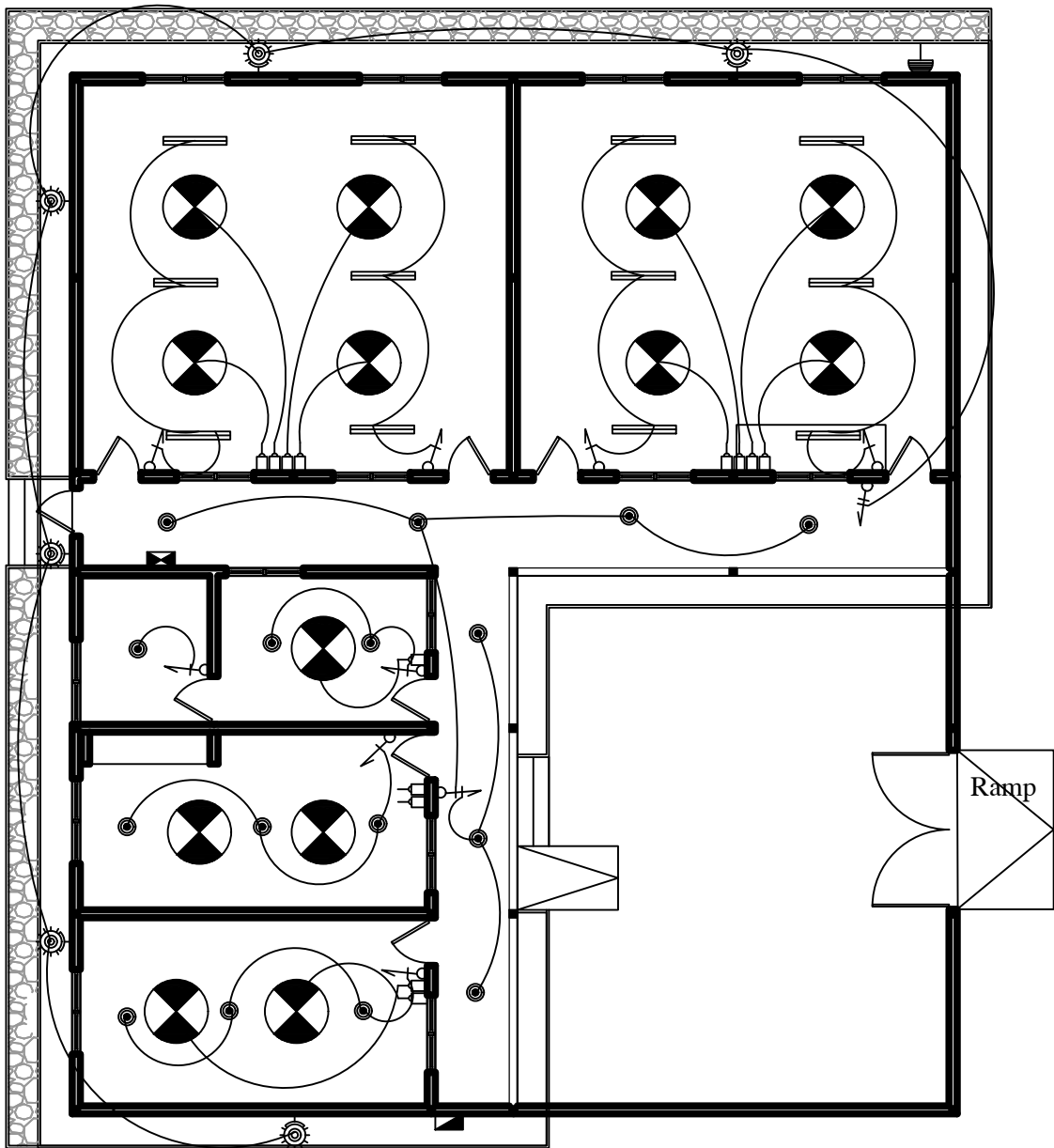
SCALE
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SHT

009

dum & dsg

SADIPRINCE ENGINEERING CONSULT



Legend

Symbols	Meaning
	One way one gang switch
	One way two gang switch
	Ceiling Fan regulators
	Tv regulators
	Energy saving Bulb
	13 AM socket switch
	15 AM socket switch
	Earth
	600mm Florescent tube
	1200mm Florescent tube
	Ceiling Fan
	Meter
	Distribution board
	Sport light

CLIENT

CHILDREN BELIEVE

PROJECT

PROPOSED REVISED ECD CLASSROOM BLOCK

DWG TITLE

LIGHTING & FAN

CONTACT:
0243984858

DATE

23/11/2023

SCALE

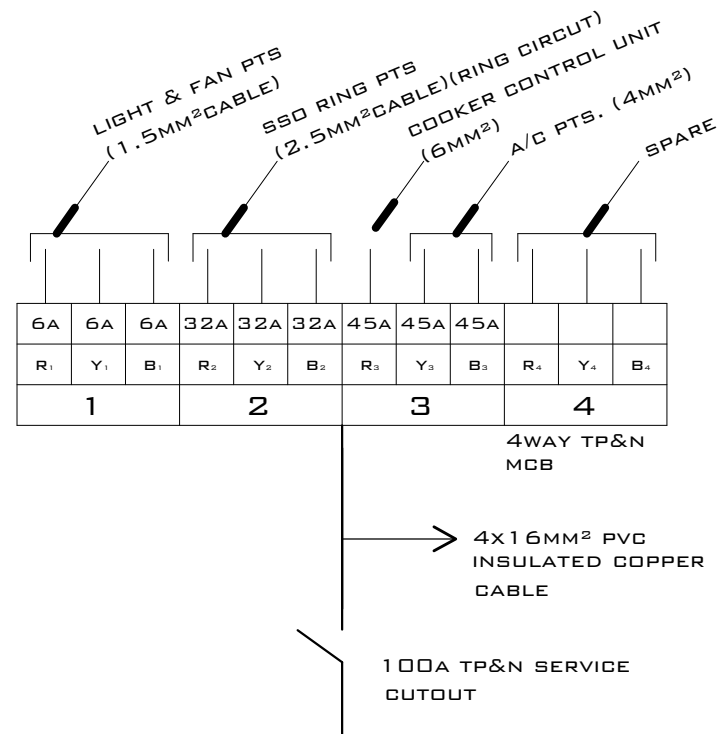
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SHT

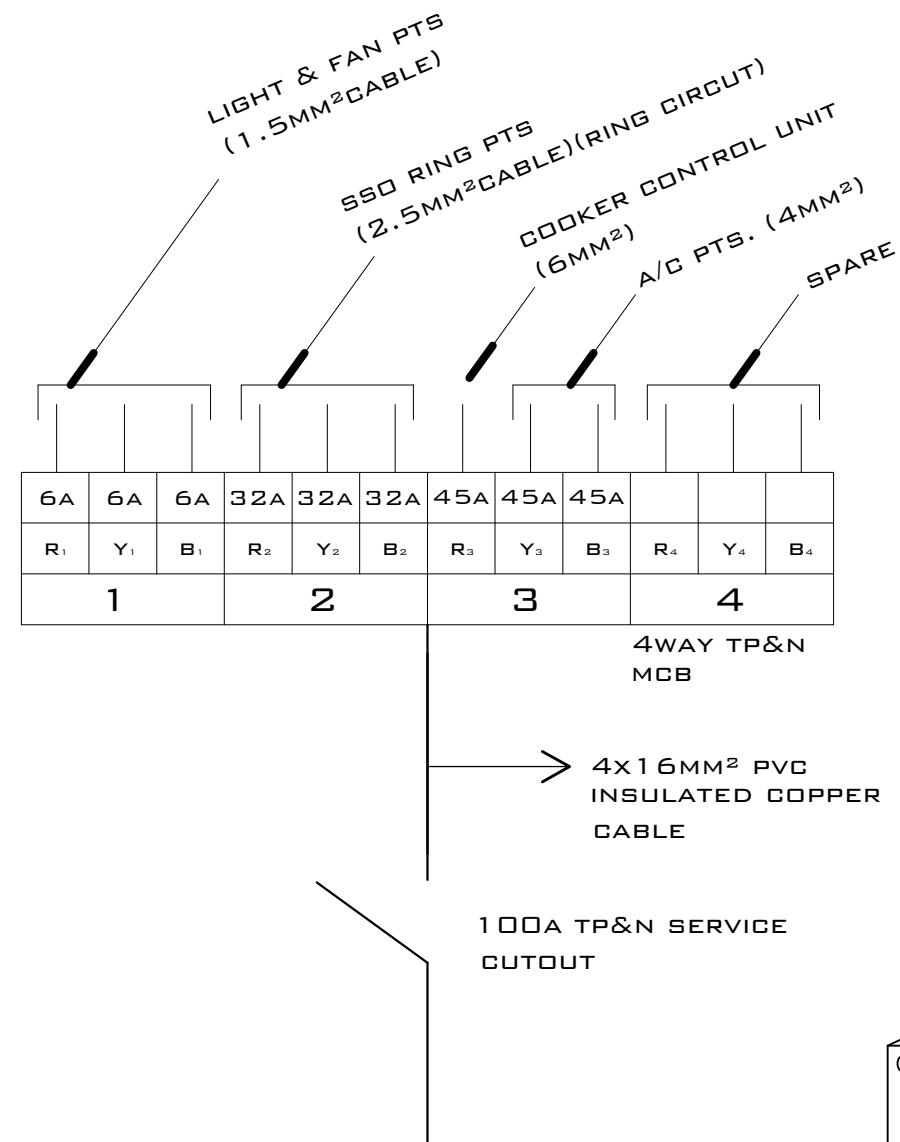
010

dum & dsg

SADIPRINCE ENGINEERING CONSULT



SYMBOL	DESCRIPTION	QTY.
1	1x28 ENERGY SAVING FLUORECENT FITTING C/W 28W TUBE	7
2	PENDANT LAMP HOLDER C/W 9W COMPACT FLUORECENT BULB	5
3	CEILING FITTINGS	7
4	CEILING FAN WITH REGULATOR	3
5	13A SWITCH SOCKET OUTLET	6
6	13A TWIN TYPE SWITCH SOCKET OUTLET	6
7	1- GANG 1- WAY SWITCH	4
8	1- GANG 2- WAY SWITCH	1
11	1- GANG 3- WAY SWITCH	1
12	COOKER CONTROL UNIT POINT	1
13	A/C POINT	1
14	6-WAY TP&N MCB DISTRIBUTION BOARD WITH 200A INTEGRAL SWITCH	1
15	SERVICE CUT-OUT 200 (TP/N)	1



CLIENT		CHILDREN BELIEVE	
PROJECT		PROPOSED REVISED ECD CLASSROOM BLOCK	
DWG TITLE			
CONSUMER UNIT LEGEND			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 011
dum & dsg SADIPRINCE ENGINEERING CONSULT			

PROJECT:

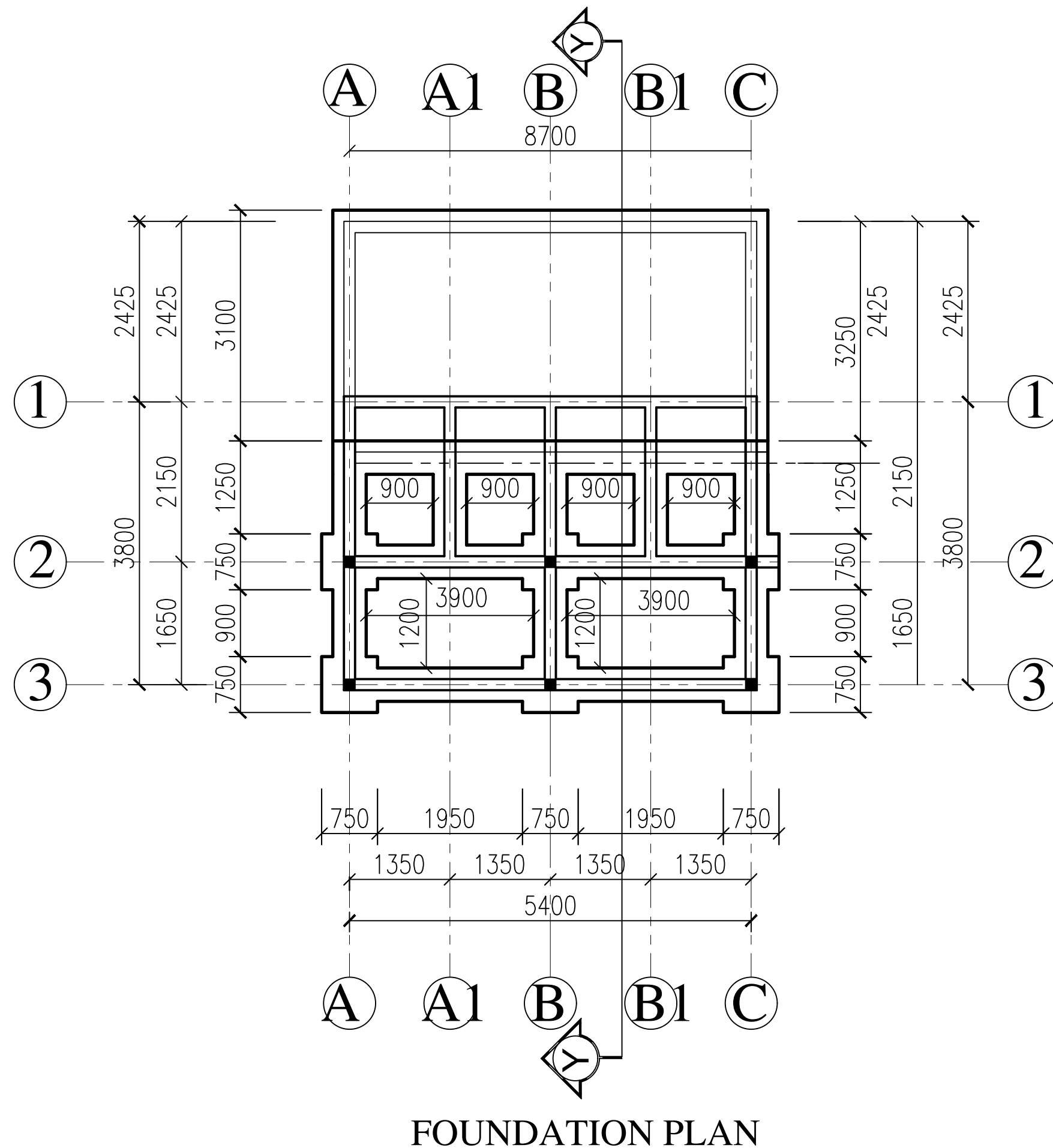
PROPOSED REVISED KVIP AND URINAL BLOCK

CLIENT: CHILDREN BELIEVE

CONSULTANT: SADIPRINCE ENGINEERING CONSULT

DATE:

23/11/2023

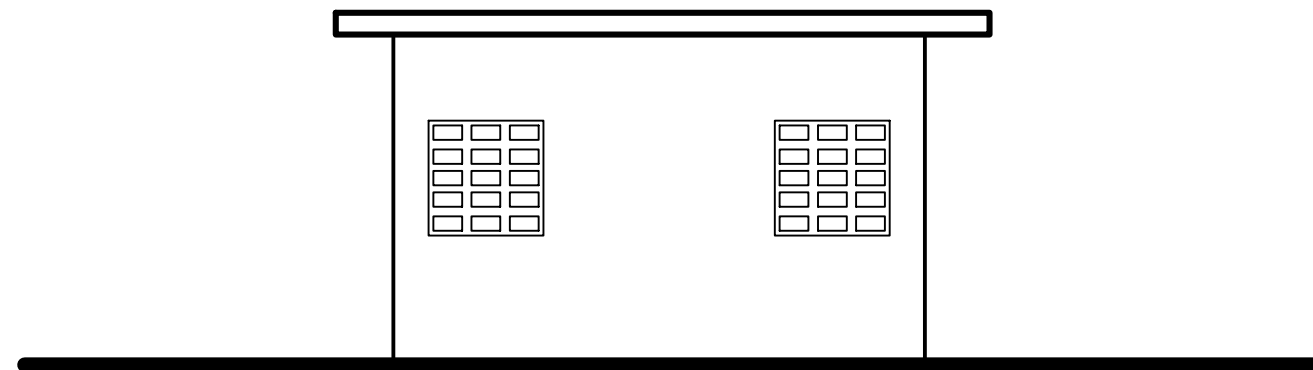


FOUNDATION PLAN

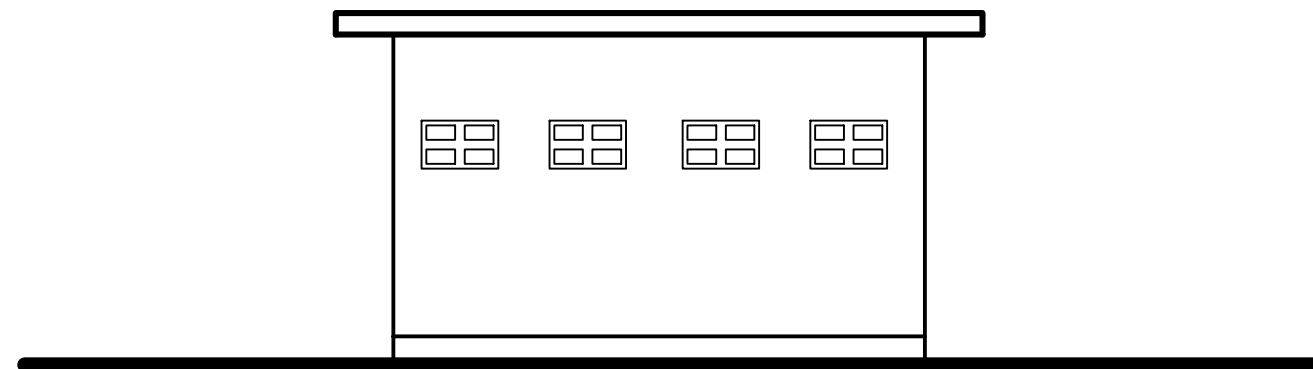
CLIENT			
CHILDREN BELIEVE			
PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.			
DWG TITLE FOUNDATION PLAN			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 001
dum & dsg SADIPRINCE ENGINEERING CONSULT			



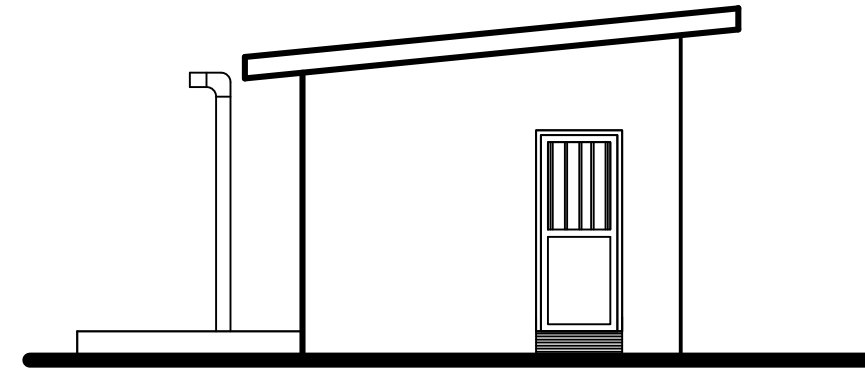
CLIENT CHILDREN BELIEVE			
	PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.		
DWG TITLE GROUND FLOOR PLAN			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 002
<i>dwm & dsq</i> SADI PRINCE ENGINEERING CONSULT			



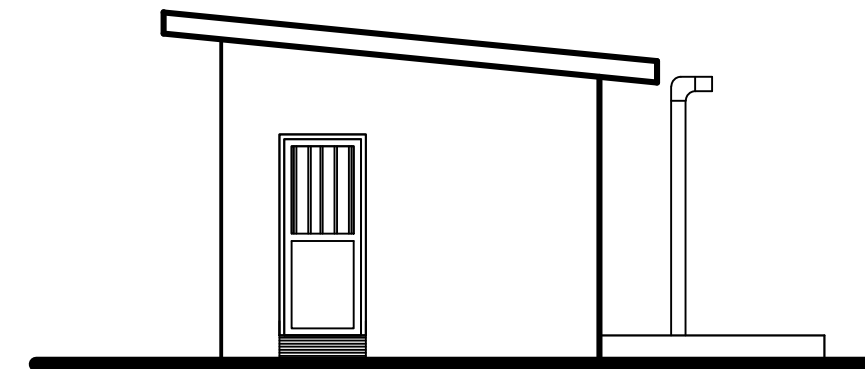
FRONT VIEW



BACK VIEW

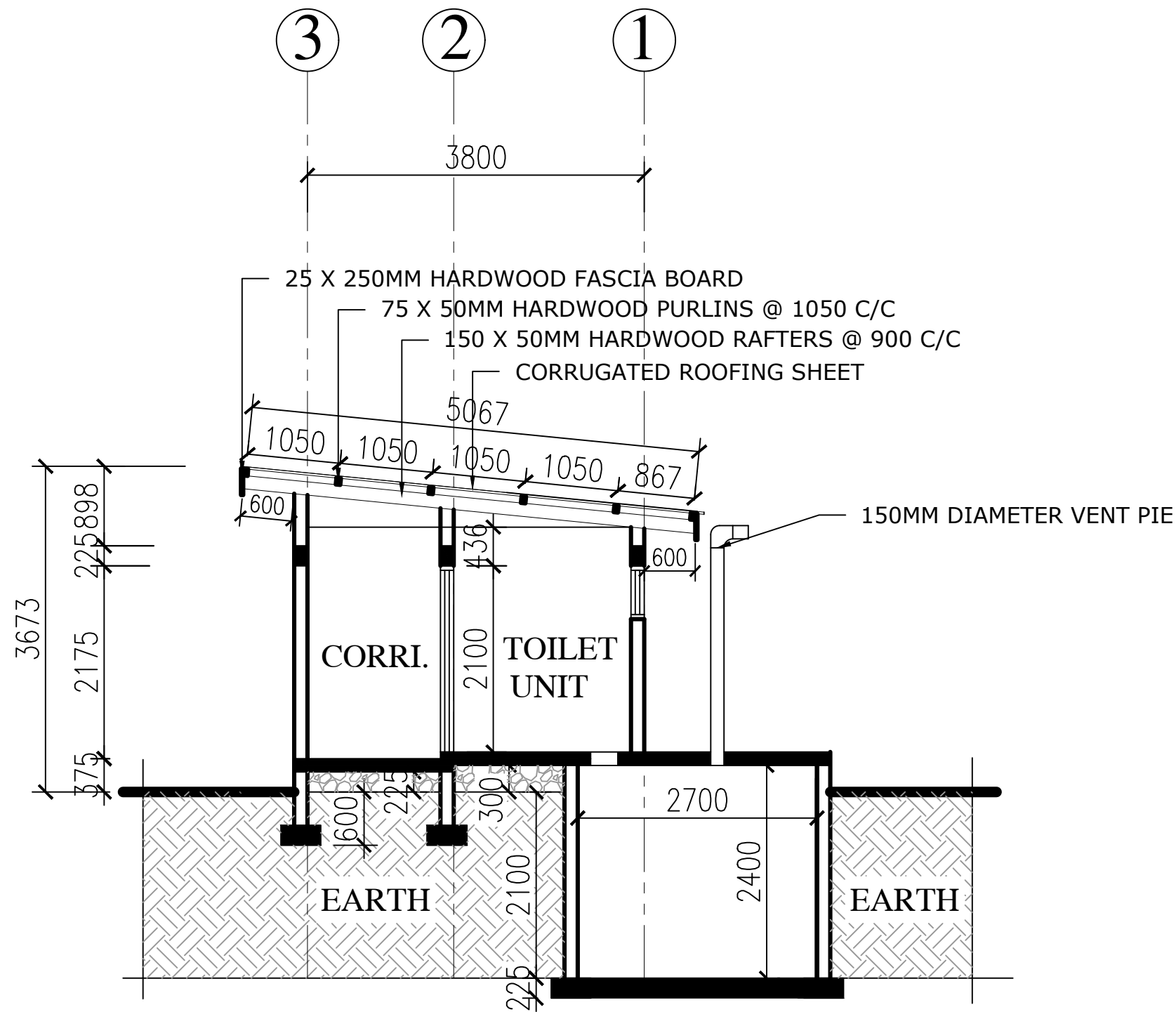


LEFT VIEW

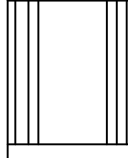


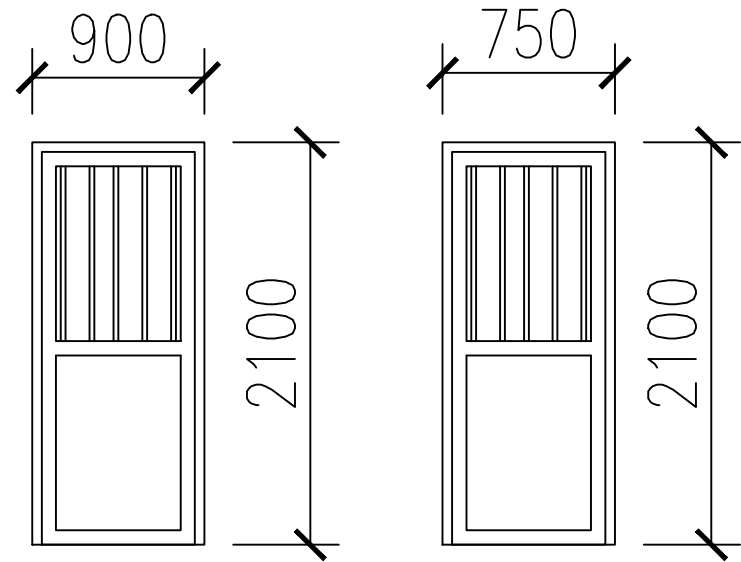
RIGHT VIEW

CLIENT			
CHILDREN BELIEVE			
	PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.		
	DWG TITLE ELEVATIONS		
	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsg SADIPRINCE ENGINEERING CONSULT		SHT 003

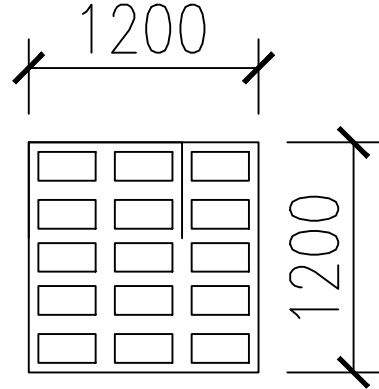


CROSS SECTION Y-Y

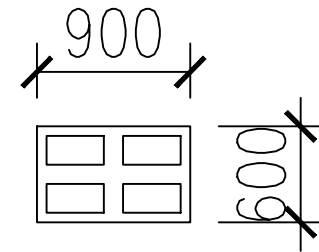
CLIENT	CHILDREN BELIEVE		
	PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.		
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	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsg SADIPRINCE ENGINEERING CONSULT		SHT 004



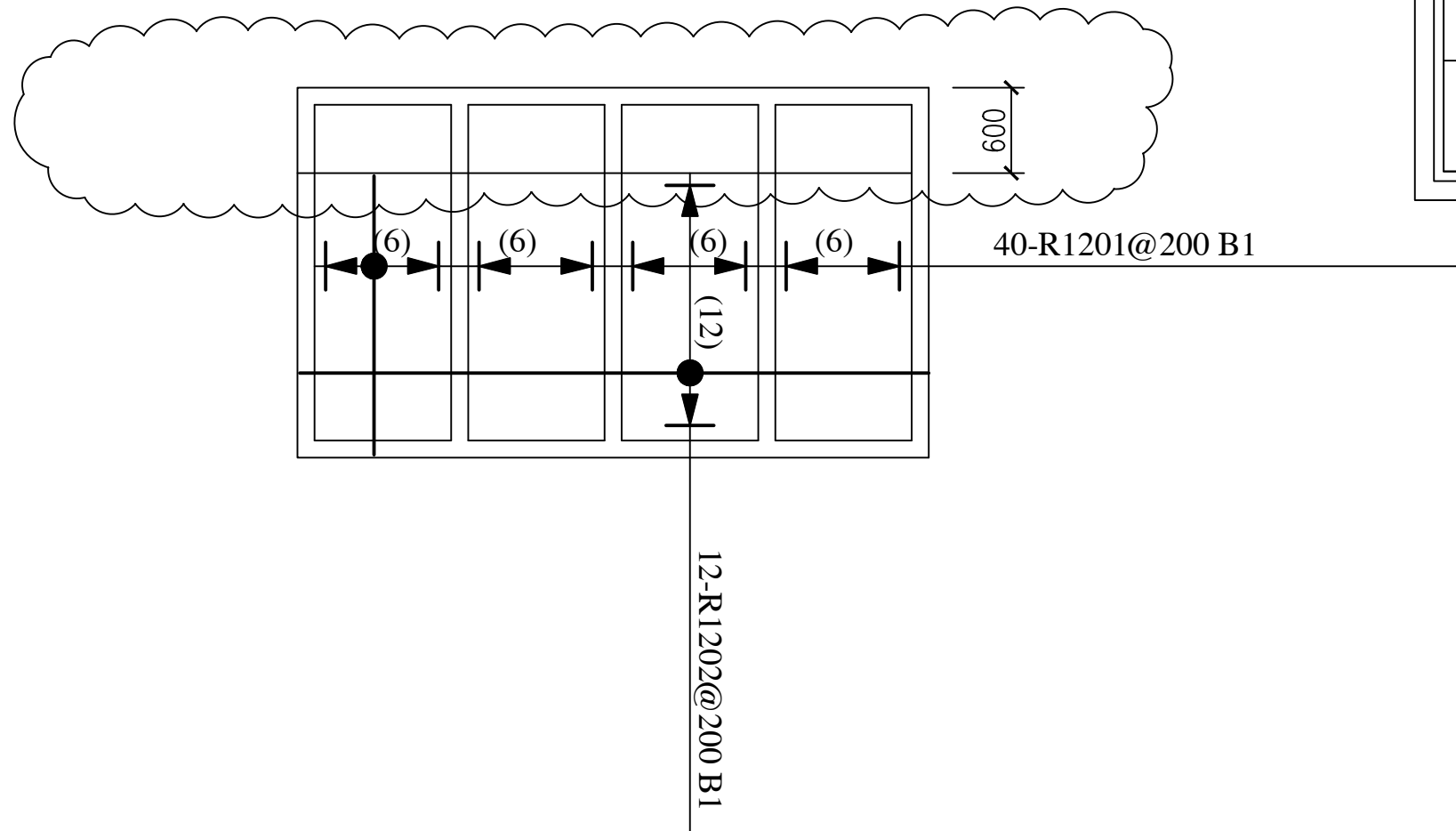
D1, QTY. 2 D2, QTY. 4



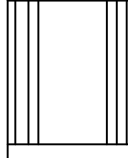
W1, QTY. 2

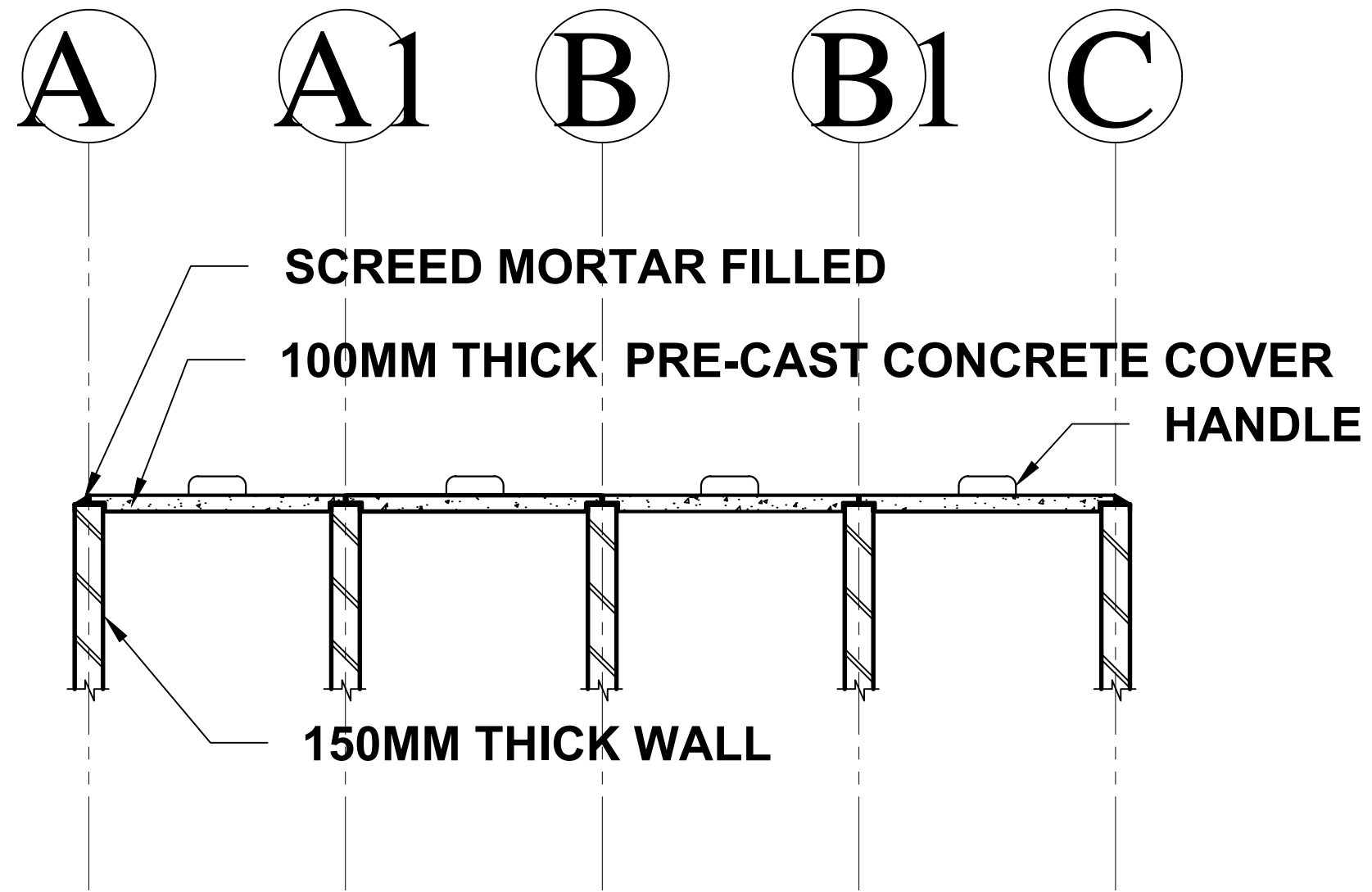


W2, QTY. 4



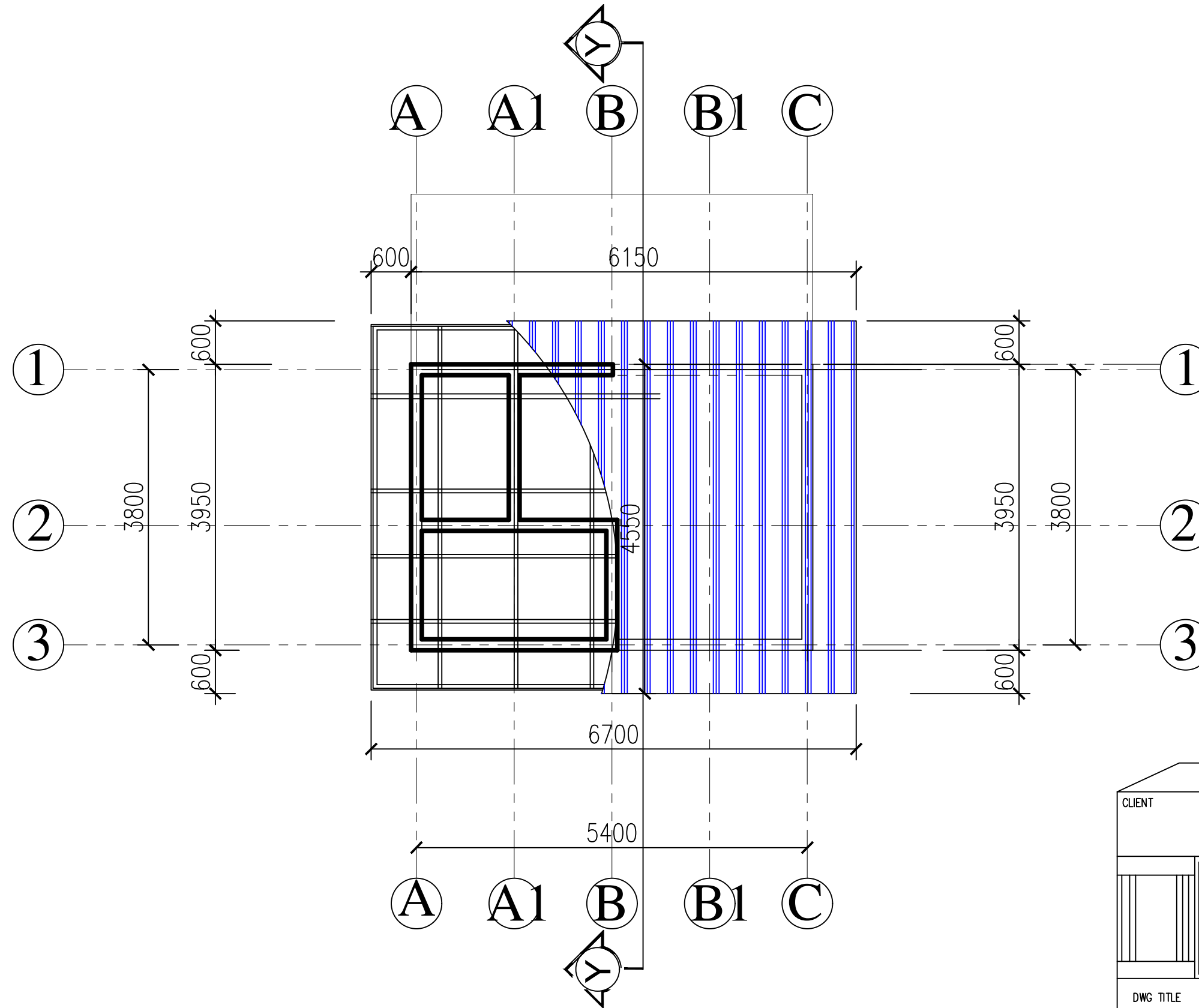
NO.	BAR DIA.	QTY	LENGHT	BAR SHAPE
1201	12mm	48	2650	 2450 
1202	12mm	12	9000	 8800 

CLIENT			
CHILDREN BELIEVE			
	PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.		
	DWG TITLE CROSS SECTION Y-Y		
	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsg SADIPRINCE ENGINEERING CONSULT		SHT 005



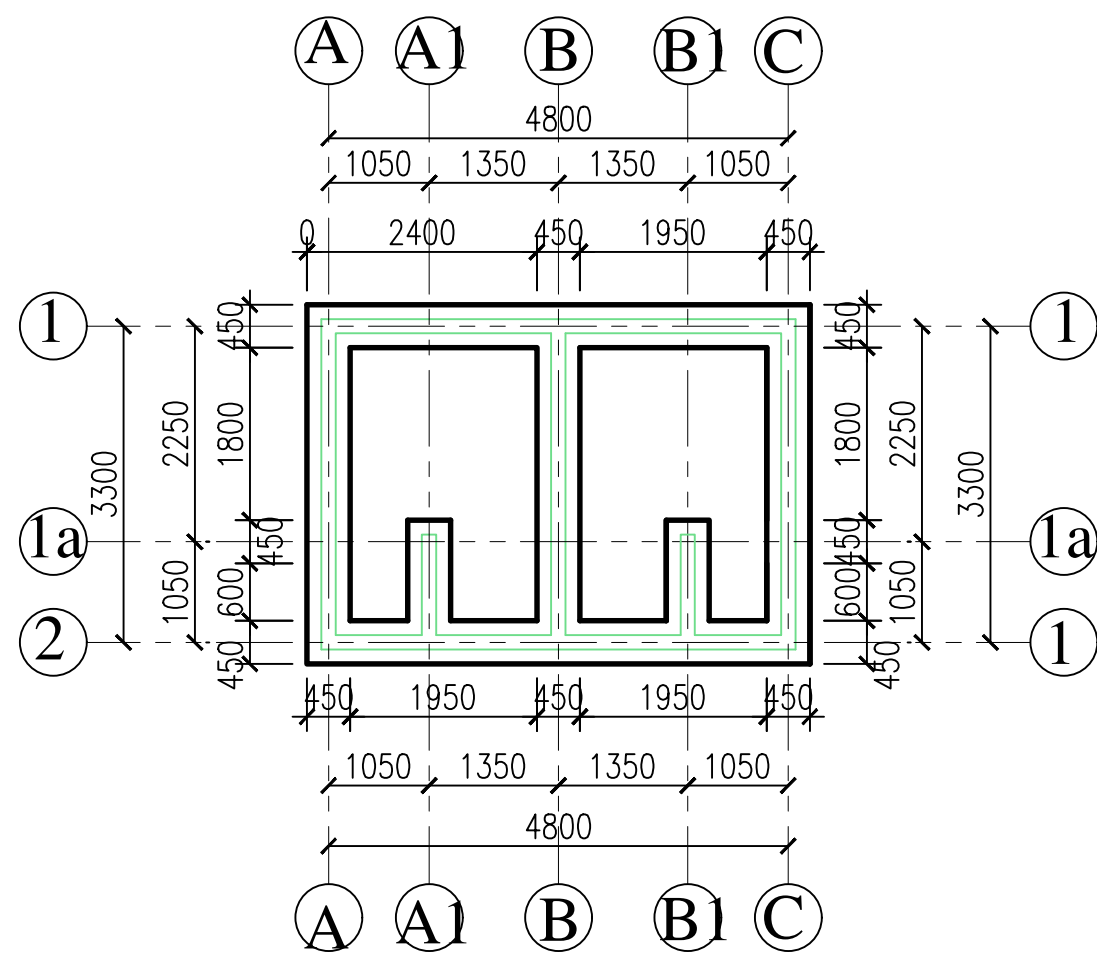
CONCRETE COVER DETAIL

CLIENT	CHILDREN BELIEVE		
	PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.		
	DWG TITLE CONCRETE COVER DETAIL		
	CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100
	dum & dsg SADI PRINCE ENGINEERING CONSULT		SHT 006

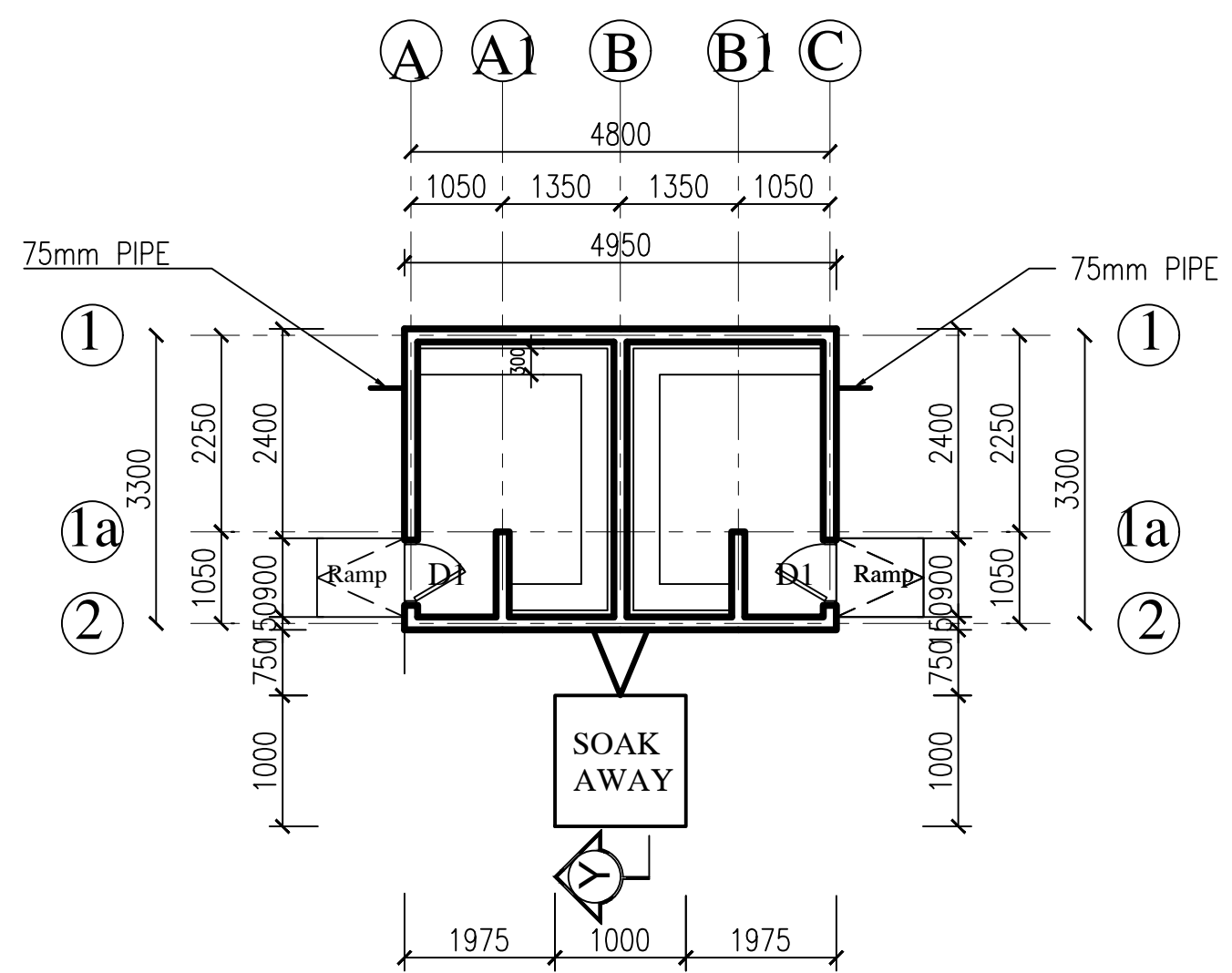


ROOF PLAN

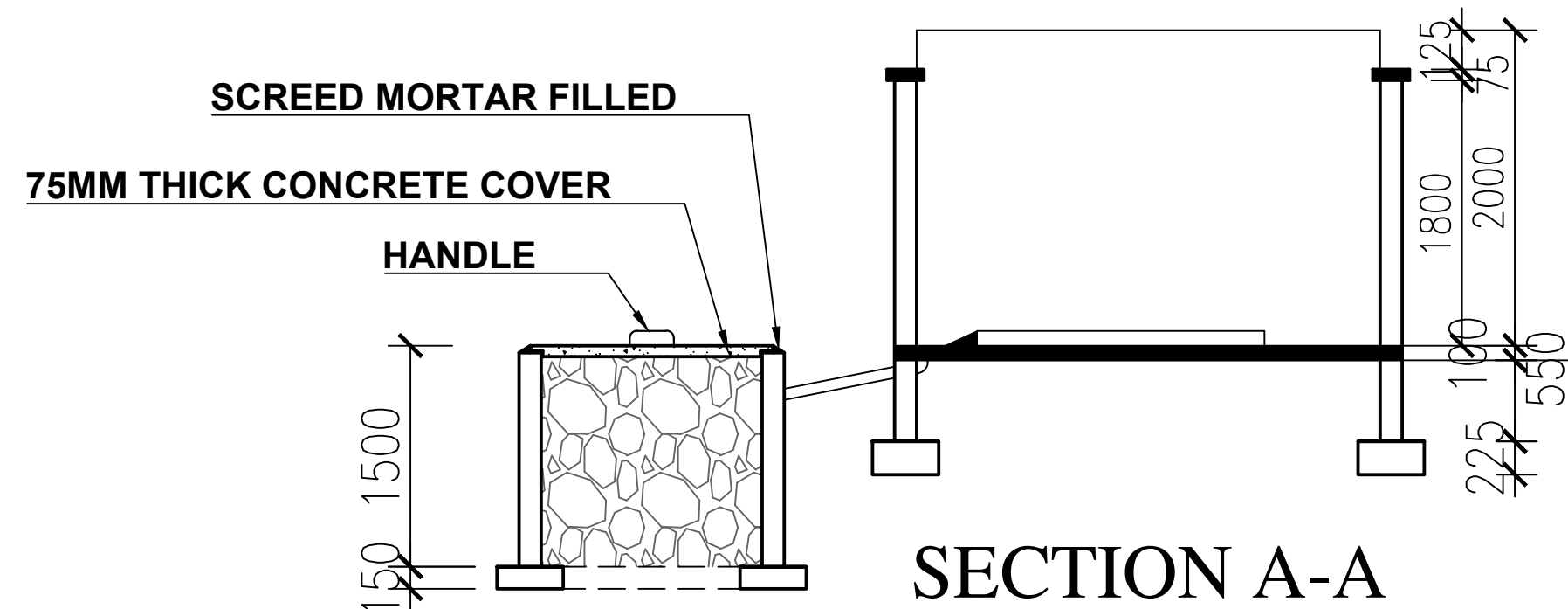
CLIENT			
CHILDREN BELIEVE			
PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.			
DWG TITLE			
ROOF PLAN			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 007
dum & dsg SADIPRINCE ENGINEERING CONSULT			



FOUNDATION PLAN

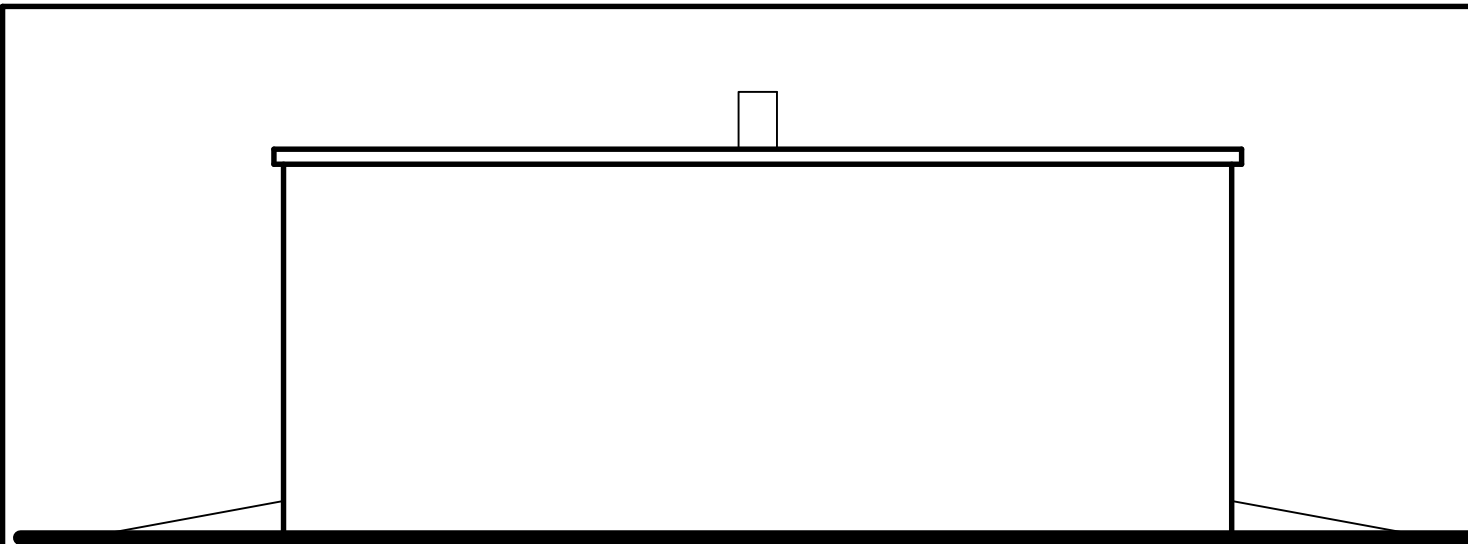


GROUND FLOOR PLAN

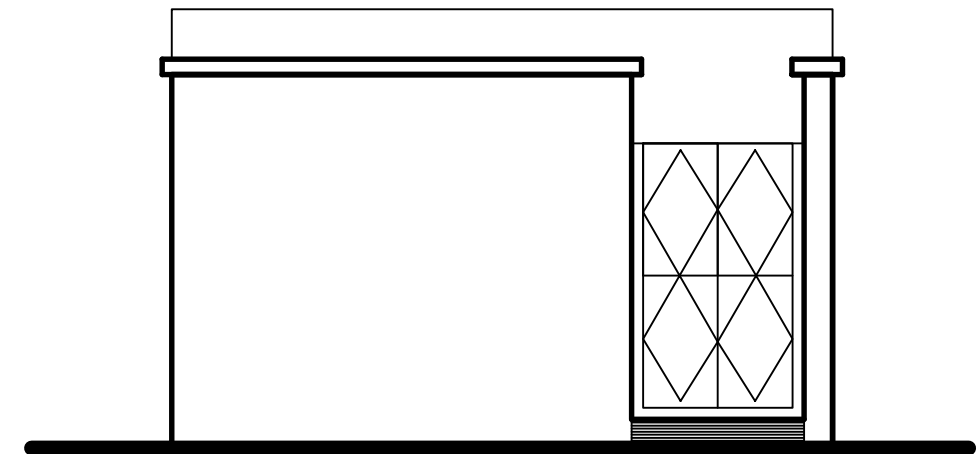


SECTION A-A

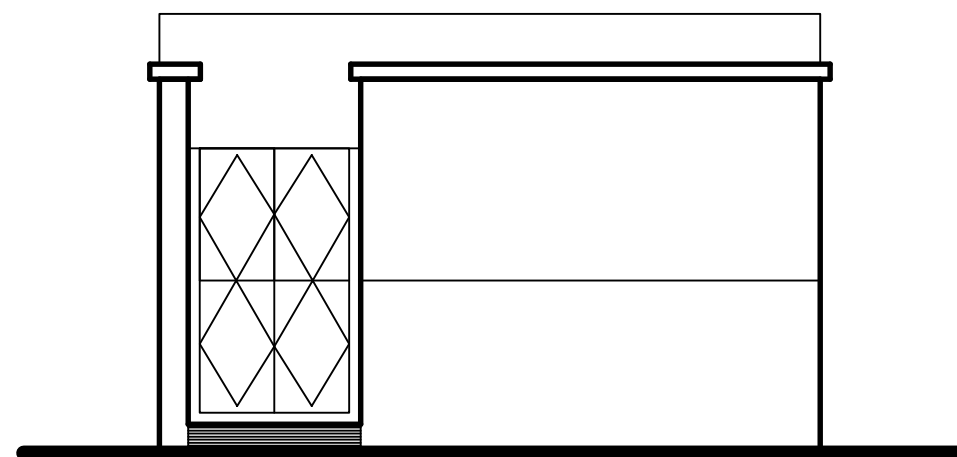
CLIENT			
CHILDREN BELIEVE			
PROJECT PROPOSED REVISED KVIP AND URINAL BLOCK.			
DWG TITLE FOUNDATION, FLOOR PLAN & CROSS SECTION Y-Y			
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 008
dum & dsg SADI PRINCE ENGINEERING CONSULT			



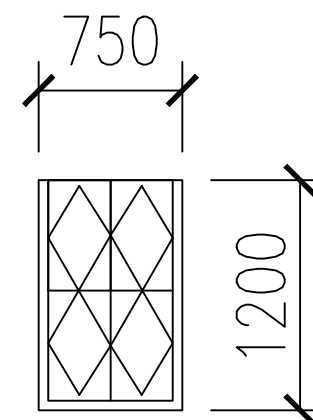
FRONT & BACK VIEWS



LEFT VIEW



RIGHT VIEW



D1, QTY = 2

CLIENT	CHILDREN BELIEVE		
PROJECT	PROPOSED REVISED KVIP AND URINAL BLOCK.		
	ELEVATIONS		
CONTACT: 0243984858	DATE 23/11/2023	SCALE 1:100	SHT 009
dum & dsg SADIPRINCE ENGINEERING CONSULT			