

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p>			
1	<p>Preliminaries and General</p> <p>F:..... V:.....T:.....</p>	Item		
	<b>Carried to Final Summary</b>		R	
	<p>Section No. 1</p> <p>Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 104 for CPAP formula purposes			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trenches	m3	94	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
2	Soft rock	m3	9	
3	Hard rock	m3	5	
	<b><u>Extra over all excavations for carting away</u></b>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	49	
	<b>Carried Forward</b>			R
	Section No. 2 ECD Building Bill No. 1 Earthworks (Provisional)			

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	<b>Brought Forward</b>			R	
	<b><u>Risk of collapse of excavations</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	338		
	<b><u>Keeping excavations free of water</u></b>				
6	Keeping excavations free of all water other than subterranean water		Item		
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>				
7	Backfilling to trenches, holes, etc	m3	46		
8	Under floors, steps, pavings, etc	m3	81		
	<b><u>G5 filling supplied by the contractor compacted to 93% Mod AASHTO density</u></b>				
9	Under floors, steps, pavings, etc	m3	40		
	<b><u>Coarse river sand filling supplied by the contractor</u></b>				
10	Sandbed	m3	13		
	<b><u>Compaction of surfaces</u></b>				
11	Compaction of ground surface under floors etc including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	270		
	<b><u>SOIL POISONING</u></b>				
	<b><u>Soil insecticide</u></b>				
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	270		
	<b>Carried Forward</b>			R	
	Section No. 2 ECD Building Bill No. 1 Earthworks (Provisional)				

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	<b>Brought Forward</b>			R	
13	To bottoms and sides of trenches	m2	433		
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
14	Blindings	m3	5		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
15	Strip footings	m3	27		
	<b><u>Mild steel reinforcement to structural concrete work</u></b>				
16	8mm Diameter bars	t	2,03		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
17	10mm Diameter bars	t	2,03		
	<b><u>BRICKWORK</u></b>				
	<b><u>NFX clay face bricks pointed with flush horizontal and vertical joints</u></b>				
18	Half brick walls	m2	54		
19	One brick walls	m2	68		
	<b><u>Brickwork reinforcement</u></b>				
20	75mm Wide reinforcement built in horizontally	m	635		
21	150mm Wide reinforcement built in horizontally	m	800		
	<b><u>MOVEMENT JOINTS, ETC</u></b>				
	<b>Carried Forward</b>			R	
	Section No. 2 ECD Building Bill No. 1 Earthworks (Provisional)				



Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 ECD Building Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

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	<b>Brought Forward</b>			R	
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	<b><u>UNREINFORCED CONCRETE</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
1	Aprons cast in panels	m3	8		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
2	Surface beds on waterproofing	m3	27		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surface of concrete smooth with a wood float.</u></b>				
3	Surface beds, slabs, etc.	m2	270		
	<b><u>(CPAP FORMULA WORK GROUP NO. 114)</u></b>				
	<b><u>Fabric reinforcement</u></b>				
4	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	270		
	<b><u>MOVEMENT JOINTS ETC</u></b>				
	<b><u>Expansion joints with Bitumen impregnated softboard between vertical concrete and brick surfaces</u></b>				
5	15mm Joints not exceeding 300mm high	m	254		
	<b>Carried Forward</b>			R	
	Section No. 2 ECD Building Bill No. 2 Concrete, Formwork and Reinforcement				

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		<b>Brought Forward</b>		<b>R</b>	
	<b><u>TEST BLOCKS</u></b>				
6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	9		
	<b>Carried Forward to Summary of Section No. 2</b>			<b>R</b>	
	Section No. 2 ECD Building Bill No. 2 Concrete, Formwork and Reinforcement				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>MASONRY</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BRICKWORK</u></b>			
	<b><u>Sizes in descriptions</u></b>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<b><u>Face bricks</u></b>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<b><u>Pointing</u></b>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
	<b><u>SUPERSTRUCTURE</u></b>			
	<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
1	115mm Half brick walls	m2	301	
2	115mm Half brick walls in beamfilling	m2	18	
3	230mm One brick walls	m2	288	
	<b>Carried Forward</b>		R	
	Section No. 2 ECD Building Bill No. 3 Masonry			

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	<b>Brought Forward</b>			R	
	<b><u>Corobrick "Firelight Travertine FBX" Face bricks pointed with flush horizontal and vertical joints</u></b>				
4	Extra over for face brick work	m2	244		
	<b><u>Brick-on-edge header course copings, sills, etc of clay face bricks pointed with recessed joints on all exposed faces</u></b>				
5	Brickwork for brick-on-edge header course 150mm wide sill set slopping	m	37		
6	Brickwork for brick-on-edge header coping on top of one brick wall	m	9		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<b><u>Brickwork reinforcement</u></b>				
7	75mm Wide reinforcement built in horizontally	m	1 251		
8	150mm Wide reinforcement built in horizontally	m	1 129		
	<b><u>Prestressed fabricated lintels</u></b>				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	69		
10	110 x 75mm Lintels in lengths exceeding 3m	m	31		
	<b><u>Galvanised hoop iron cramps, ties, etc</u></b>				
11	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	50		
	<b><u>PRECAST CONCRETE WINDOW SILLS</u></b>				
	<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></b>				
12	150 x 15mm thick corrugated cement pressed precast window sill	m	37		
	<b>Carried Forward to Summary of Section No. 2</b>			R	
	Section No. 2 ECD Building Bill No. 3 Masonry				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b>			
1	150mm thick half brick walls	m2	9	
2	220mm thick in one brick walls	m2	22	
	<b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
3	Under surface beds	m2	270	
	<b><u>JOINT SEALANTS, ETC</u></b>			
	<b><u>"Denbraven LM15" polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>			
4	10 x 10mm expansion joints in floors	m	254	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 ECD Building Bill No. 4 Waterproofing			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>KLIP-LOK 700 profile roll formed in continuous lengths, light industrial with 'Global Coat' finish to 1 side on 38 x 76mm SAP Battens at 1200mm Centres Max on Timber trusses:</u></b>			
1	Roof covering with pitch exceeding 25 degrees and not exceeding but 30 degrees	m2	421	
2	300mm wide ridge capping	m	26	
3	150mm high bandage flashing with acrylic sealant	m	24	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
4	Insulation laid taut over rafters (at approximately 1 200mm centres) and fixed concurrent with battens, purlins, etc	m2	294	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2			
	ECD Building			
	Bill No. 5			
	Roof Covering			
			R	

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.126 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Particle board:</u></b></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><b><u>Joinery:</u></b></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><b><u>Fixing</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><b><u>Decorative laminate finish:</u></b></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Plate nailed timber roof truss construction</u></b></p>			
<p><b>Carried Forward</b></p>		R	
<p>Section No. 2 ECD Building Bill No. 6 Carpentry and Joinery</p>			

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<b>Brought Forward</b>				R
<b><u>Sawn softwood</u></b>				
1	38 x 114mm Wall plates	m	46	
2	Design, manufacture and deliver on site, plate nailed roof truss construction to Early Childhood Development Building, size 270m <sup>2</sup> overall on plan consisting of ten pitched trusses, each truss 12 890 x 2000mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing, hip rafters, jack trusses, etc (wall plates measured elsewhere)	No	1	
3	Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m <sup>2</sup>	270	
<b><u>Sundries</u></b>				
4	Two coats creosote on sawn timbers	m <sup>2</sup>	5	
<b><u>EAVES , VERGES , ETC</u></b>				
<b><u>PVC Fascia boards</u></b>				
5	9 x 225mm fascia boards including galvanised steel H-profile jointing strips	m	80	
<b><u>DOORS, ETC</u></b>				
<b><u>Wrought meranti doors hung to steel frames</u></b>				
6	Door 813 x 2 032 x 44mm Hardwood "Meranti" timber door with horizontal slates.	No	1	
<b><u>Hollow core Doors</u></b>				
7	762 x 1 882 x 44mm Hollow core flush panel door with hardwood edging.	No	4	
<b>Carried Forward</b>				R
Section No. 2 ECD Building Bill No. 6 Carpentry and Joinery				

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<b>Brought Forward</b>				R
<b><u>Semi-solid core doors</u></b>				
8	813 x 2032 x 44mm semi-solid core flush panel door with hardwood edging.	No	8	
9	813 x 2032 x 44mm semi-solid core flush panel door with hardwood edging with louver	No	3	
<b><u>NOTICE BOARDS, KEYBOARDS, DUCKBOARDS, ETC</u></b>				
<b><u>Softboard</u></b>				
10	Pinning boards 2100mm x 1200mm high x 12mmm softboard in 44mm x 22mm rebated meranti surround all fixed to plastered wall	No	5	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
ECD Building				
Bill No. 6				
Carpentry and Joinery				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions:</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<b><u>CEILINGS ETC</u></b>			
	<b><u>"Aerolite" insulation</u></b>			
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	270	
	<b><u>6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u></b>			
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	270	
3	2Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	3	
	<b>Carried Forward</b>		R	
	Section No. 2 ECD Building Bill No. 7 Ceilings, Partitions and Access Flooring			



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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:            BS Satin bronze lacquered            CH Chromium plated            SC Satin chromium plated            SE Silver enamelled            GE Grey enamelled            AS Anodised silver            AB Anodised bronze            AG Anodised gold            ABL Anodised black            PB Polished brass            PL Polished and lacquered            PT Epoxy coated            SD Sanded            NP Nickle plated</p> <p><b><u>HINGES, BOLTS, ETC.</u></b></p> <p><b><u>HINGES</u></b></p> <p><b><u>"Dorma"</u></b></p>			
1	<p>DBB-SS-009 102 x 75 x 3mm Stainless steel two ball bearing butt hinge.</p>	No	32	
	<p><b><u>LOCKS</u></b></p>			
	<p><b>Carried Forward</b></p>			R
	<p>Section No. 2 ECD Building Bill No. 8 Ironmongery</p>			

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<b>Brought Forward</b>			R
<b><u>"Union"</u></b>			
2	CZ682TL-73SC Gower lever furniture (LH) with bathroom turn and emergency release	No	6
3	2231 4R-76SS bathroom/wc lock case	No	6
4	CZ682-24-61SC Gower 4-lever locksets	No	11
<b><u>HANDLES</u></b>			
<b><u>"Dorma"</u></b>			
5	DPH213 350 x 32mm stainless steel "D" shaped straight back-to-back pull handles.	No	2
<b><u>"Union"</u></b>			
6	CZ682T-73SC Gower bathroom lever furniture with bathroom turn and emergency release	No	6
<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
<b><u>"Dorma"</u></b>			
7	150mm Chrome plated cabin hooks and eyes	No	1
<b><u>PUSH PLATES AND KICKING PLATES</u></b>			
<b><u>"Dorma"</u></b>			
8	800 x 200 x 1,2mm type 304 stainless steel kick plate to outside of door	No	1
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Kimberley-Clark"</u></b>			
9	Kimberly-Clark Professional SQ3 lockable two toilet roll holder.	No	6
<b>Carried Forward</b>			R
Section No. 2 ECD Building Bill No. 8 Ironmongery			

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	<b>Brought Forward</b>		R	
10	Kimberly-Clark Professional series I twinpak Skincare soap dispenser colour White (code: SA921950), overall size 184 x 110 x 264mm high, installed by Kimberly Clerk installation team.	No	4	
	<b><u>"Chairman Industries"</u></b>			
11	32mm Type SR1 rear grab rail plugged	No	1	
12	32mm Type DL2 side grab rail plugged	No	1	
	<b><u>SUNDRIES</u></b>			
	<b><u>"Dorma"</u></b>			
13	Union CZ8731SC door stop	No	16	
	<b><u>WALL-MOUNTED WASTE BIN</u></b>			
	<b><u>"Franke"</u></b>			
14	Perforated waste container - BS610	No	4	
	<b><u>TOWEL DISPENSER</u></b>			
	<b><u>"Franke"</u></b>			
15	Paper towel dispenser - BS600P	No	4	
	<b><u>SIGNAGE</u></b>			
	<b><u>All signage to be fixed with adequate heavy duty "no nails double sided tape to top of door</u></b>			
16	70mm high white perspex with black vinyl letters. " Classroom" perspex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	3	
17	70mm high white perspex with black vinyl letters. "Paraplegic Classroom" perspex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1	
	<b>Carried Forward</b>			
	Section No. 2 ECD Building Bill No. 8 Ironmongery		R	

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<b>Brought Forward</b>			R
18	70mm high white perspex with black vinyl letters. " Office " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
19	70mm high white perspex with black vinyl letters. " Store Room " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
20	70mm high white perspex with black vinyl letters. " Pantry " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
21	70mm high white perspex with black vinyl "Boys WC" persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	2
22	70mm high white perspex with black vinyl "Girls WC" persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	2
23	70mm high white perspex with black vinyl letters. " Sluice Room " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
24	70mm high white perspex with black vinyl letters. " Waiting Area " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
25	70mm high white perspex with black vinyl letters. " Motor Activity Zone " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
26	70mm high white perspex with black vinyl letters. " Kitchen " persex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1
27	"AL5066-06ASE06" 152 x 152mm anodised aluminium plate with fire extinguisher symbol	No	2
28	"AL5066-06ASE05" 152 x 152mm anodised aluminium plate with fire hose reel symbol	No	1
<b>Carried Forward</b>			R
Section No. 2 ECD Building Bill No. 8 Ironmongery			



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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><b><u>PRESSED STEEL DOOR FRAMES</u></b></p> <p><u>1,2 mm Thick double rebated door frames suitable for half brick walls</u></p>			
1	Frame for door 813 x 2 032mm high	No	13	
2	Frame for door 813 x 2032mm high and fixed fanlight 305mm high	No	1	
	<u>1,2 mm double rebate door frame suitable for one brick wall</u>			
3	Frame for door 813 x 2 032mm high	No	2	
	<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p> <p><b><u>WINDOWS</u></b></p>			
	<b>Carried Forward</b>		R	
	Section No. 2 ECD Building Bill No. 9 Metal Work			

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<b>Brought Forward</b>			R
<b><u>Purpose made Bronze anodized aluminium windows factory fitted with aluminium alloy glazing beads suitable for harsh marine climate</u></b>			
4	2400mm wide x 1500mm high (Type B)	No	4
5	1800mm wide x 1200mm high (Type C)	No	1
6	2128mm wide x 600mm high (Type D)	No	1
7	740mm wide x 600mm high (Type E)	No	1
8	1800mm wide x 900mm high (Type F)	No	1
9	600mm wide x 600mm high (Type G)	No	2
10	1800mm wide x 1200mm high (Type J)	No	1
<b><u>Purpose made Bronze anodized aluminium Double door with side lights factory fitted with aluminium alloy glazing beads suitable for harsh marine climate</u></b>			
11	3600mm wide x 2125mm high (Type A)	No	4
12	9000mm wide x 2125mm high (Type H)	No	1
13	3000mm wide x 1500mm high (Type K)	No	1
<b><u>ALUMINIUM LOUVRE PANELS</u></b>			
<b><u>louvre panels screwed into timber doors</u></b>			
14	Panel 150 x 500mm high	No	3
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2			
ECD Building			
Bill No. 9			
Metal Work			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLASTERING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.			
	<b><u>SCREEDS</u></b>			
	<b><u>1:4 Cement plaster screeds wood floated on concrete</u></b>			
1	25mm Thick on floors and landings	m2	270	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>1 coat wood float plaster. 1 coat 2mm trowelled - on "Pourpet" finish to concrete smooth finish for internal purposes</u></b>			
2	On walls	m2	569	
3	On narrow widths	m2	11	
	<b><u>EXTERNAL PLASTER</u></b>			
	<b><u>1 coat wood float plaster. 1 coat 2mm trowelled - on "Pourpet" finish to concrete smooth finish for internal purposes</u></b>			
4	On walls	m2	24	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2 ECD Building Bill No. 10 Plastering		R	

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>TILING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP formula purposes.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<b><u>WALL TILING</u></b>			
	<b><u>(PC Amount R120.00/m2) for wall tile size: 200 x 200 x 6mm thick tiles fixed with straight joint in both directions adhesive to manufacturer</u></b>			
1	Internal walls	m2	156	
2	Fair exposed cutting and fitting around pipe not exceeding 110 mm internal diameter	No	20	
	<b><u>FLOOR TILING</u></b>			
	<b><u>(PC Sum of R150 per m2) for Floor tiles size 300 x 300 x 10mm fixed to floors with straight joints in both directions with the recommended ceresit Tylon adhesive (elsewhere) and flush pointed with Ceresit Tylon</u></b>			
3	On floors and landings	m2	270	
4	100mm tile skirting	m	229	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 ECD Building Bill No. 11 Tiling			

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>"Polycop" polypropylene pipes:</u></b></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><b><u>Concrete pipes:</u></b></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><b><u>uPVC pipes and fittings:</u></b></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><b><u>uPVC pressure pipes and fittings:</u></b></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)</p>			R

<p align="center"><b>Brought Forward</b></p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><b><u>Copper pipes:</u></b></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><b><u>Fixing of pipes</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><b><u>Reducing fittings</u></b></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><b><u>Wire gratings</u></b></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p>		R	
<p align="center"><b>Carried Forward</b></p> <p>Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)</p>		R	

<p align="center"><b>Brought Forward</b></p> <p><b><u>Exposed concrete surfaces</u></b></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><b><u>Excavations</u></b></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><b><u>Laying, backfilling, bedding, etc. of pipes</u></b></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:  SABS 1200 L : Medium-pressure pipelines  LD : Sewers  LE : Stormwater drainage  Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200  DB : Earthworks (Pipe trenches)  Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200  LB : Bedding (Pipes).  Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><b><u>Flush pans</u></b></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p>		R	
<p align="center"><b>Carried Forward</b></p> <p>Section No. 2  ECD Building  Bill No. 12  Plumbing and Drainage (Provisional)</p>		R	

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	<b>Brought Forward</b>			R
	<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></b>			
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable			
	<b><u>Waste unions</u></b>			
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
	<b><u>(CPAP FORMULA WORK GROUP 148)</u></b>			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>0,8mm Seamless Aluminium OGEE gutters and rainwater pipes with baked enamel finish</u></b>			
1	150 x 125mm gutters	m	48	
2	100 x 75mm Diameter rainwater pipes	No	4	
3	Extra over gutter for outlet for 75mm pipe	No	4	
4	Extra over rainwater pipe for shoe	No	4	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal"</u></b>			
5	"Vaal" Hibiscus Basin Product code: 7023 with two semi punched tapholes, intergetred overflow and chainstay hole thru the centre semi-punched taphole.	No	4	
6	'Vaal Hibiscus basin' Product code 7023 with 1 x 12mm C.P. lever action taps and 32mm C.P lagged bottle trap, waste outlet plug and chain. nb: cold water tap must be closed to toilet. nb: NO PEDESTAL	No	1	
7	"Vaal Pearl Paraplegic Semi Close Couple Suite" product code: 73005C supplied with purpose made C.P side flush lever (right) and purpose made urea seat and cover plate	No	1	
	<b>Carried Forward</b>			R
	Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)			

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<b>Brought Forward</b>			R
8	'VAAL' JUNIOR 104 LOW LEVEL SUITE Product code: 751358 and matching 6 litre cistern, Product code: 712034 (03No.)	No	4
9	'VAAL' flatback wall hung bowl urinal Product code: 705326 (03No.)	No	1
10	"VAAL" Hibiscus Close Coupled Suite Product code: 772654	No	1
<b><u>"FRANKE"</u></b>			
11	'Franke' model. Quinline - QLX611 satin 900L x 500W Product code: 820000	No	1
12	'Franke' model. CH SLOP HOPPER 540 X 540MM Product code - 351350 with "Cobra" model FM.100-35mm water supply flush valve	No	1
<b><u>TRAPS, ETC</u></b>			
<b><u>"Marley"</u></b>			
13	32 x 50mm Deep seal "P" or "S" trap	No	2
<b><u>"Cobra Watertech"</u></b>			
14	32mm C.P. lagged bottle traps	No	5
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>Brass</u></b>			
15	22mm Stopcock	No	10
<b><u>"Cobra Watertech"</u></b>			
16	"COBRA" Xena Pillar taps code XE-214-15	No	10
17	Chrome plated cobra watertech NOKA Bath/shower diverter mixer NA-961 complete with overflow, elbows, and rail with adjustable holder.	No	1
<b>Carried Forward</b>			R
Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)			

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<b>Brought Forward</b>			R
18	"Cobra" Tap - "Selene" SE 970 single lever with aerated swivel outlet BSP female inlet	No	1
19	PB1.10RB vacuum breaker	No	1
20	PA1.1RB "Kwikflo" 400 kPa pressure reducing valve	No	1
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
21	50mm Pipes	m	100
22	110mm Pipes	m	150
<b><u>Extra over uPVC pipes for fittings</u></b>			
23	110mm Reducer	No	4
24	50mm Bend	No	5
25	50mm Junction	No	10
26	110mm Pan connector	No	5
27	50mm Access bend	No	10
28	110mm Access bend	No	5
29	50mm Access junction	No	5
30	110mm Access bend with anti-syphon horn	No	5
31	50mm "GI Two-way" vent valve	No	5
<b><u>Sundries</u></b>			
32	Testing waste pipe system		Item
<b><u>WATER SUPPLIES</u></b>			
<b>Carried Forward</b>			R
Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)			

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<b>Brought Forward</b>				R
<b><u>Class 0 copper pipes</u></b>				
33	15mm Pipes	m	80	
34	15mm Pipes chased into brick walls	m	140	
35	22mm Pipes	m	90	
36	22mm Pipes chased into brick walls	m	150	
37	28mm Pipes chased into brick walls	m	50	
<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
38	15mm Fittings	No	45	
39	22mm Fittings	No	50	
40	28mm Fittings	No	10	
<b><u>Copper overflow and service pipes</u></b>				
41	15mm Service pipe 500mm girth	No	1	
<b><u>SOLAR WATER HEATING SYSTEM</u></b>				
<b><u>"Kwikot"</u></b>				
42	100 Litre Kwikot 600i Dual electric water heater slimline 100 litres 990 x 480mm Geyser. Installed in ceiling. NB All hot water services to be clad with insulation with min. R-value 1.	No	1	
<b><u>TESTING</u></b>				
43	Testing water pipe system		Item	
<b><u>FIRE APPLIANCES ETC</u></b>				
<b>Carried Forward</b>				R
Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)				

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<b>Brought Forward</b>				R
<b><u>"Chubb"</u></b>				
44	Approved hose reel complete with 30m long and 20mm dia rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket fixed to wall	No	1	
45	4,5kg Carbon dioxide fire extinguisher complete with 520 x 115 x 22mm thick timber backboard plugged to wall and varnished	No	2	
<b><u>WATER SUPPLIES TO FIRE APPLIANCES</u></b>				
<b><u>Galvanized steel pipes</u></b>				
46	25mm Pipes	m	10	
<b><u>Extra over galvanized steel pipes for steel fittings</u></b>				
47	25mm Fitting	No	3	
48	25mm Non-return valve	No	1	
<b><u>CONNECTION</u></b>				
49	Allow a PC amount of R20,000 for sewer and water connenction.		Item	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 ECD Building Bill No. 12 Plumbing and Drainage (Provisional)				

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>GLAZING</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes</p> <p><b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b></p> <p><b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b></p>			
1	400 x 900 x 4mm "GG" quality polished glass mirror: Fixed to wall with vertical strips of double sided adhesive tape. One mirror per wash hand basin.	No	4	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2 ECD Building Bill No. 13 Glazing		R	

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 14</u></b>			
	<b><u>PAINTWORK</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes			
	<b><u>ON FLOATED PLASTER</u></b>			
	<b><u>Prime with One coat Plascon Plaster Primer and two coats Plascon Plaster Primer on walls.</u></b>			
1	On internal walls	m2	580	
	<b><u>Prime with One coat Plascon Plaster Primer and two coats Plascon Plaster Primer on walls.</u></b>			
2	On external walls	m2	24	
	<b><u>ON PLASTERBOARD</u></b>			
	<b><u>Prime with one coat Professional Plaster Primer and two coats Professional Evaluation Acrylic</u></b>			
3	On Gypsum Ceilings and Cornices	m2	270	
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
4	On fascias and bargeboards	m2	32	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u></b>			
5	On doors frames	m2	13	
	<b>Carried Forward</b>		R	
	Section No. 2 ECD Building Bill No. 14 Paintwork			

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	<b>Brought Forward</b>			R	
	<b><u>ON WOOD</u></b>				
	<b><u>Spot priming defects in pre primed surfaces with wood primer and applying one undercoat and two coat high gloss enamel paint on steel</u></b>				
6	On doors	m2	49		
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>				
7	On doors	m2	3		
	<b>Carried Forward to Summary of Section No. 2</b>			R	
	Section No. 2				
	ECD Building				
	Bill No. 14				
	Paintwork				

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Bill No	Section No. 2 ECD Building <b><u>SECTION SUMMARY - ECD Building</u></b>	Page No	Amount
1	Earthworks (Provisional)	-5-	
2	Concrete, Formwork and Reinforcement	-8-	
3	Masonry	-10-	
4	Waterproofing	-11-	
5	Roof Covering	-12-	
6	Carpentry and Joinery	-15-	
7	Ceilings, Partitions and Access Flooring	-17-	
8	Ironmongery	-22-	
9	Metal Work	-24-	
10	Plastering	-25-	
11	Tiling	-26-	
12	Plumbing and Drainage (Provisional)	-34-	
13	Glazing	-35-	
14	Paintwork	-37-	
	<b>Carried to Final Summary</b>		R
	Section No. 2 ECD Building		

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 104 for CPAP formula purposes			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trenches	m3	11	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
2	Soft rock	m3	1	
3	Hard rock	m3	1	
	<b>Carried Forward</b>		R	
	Section No. 3 Guard House Bill No. 1 Earthworks (Provisional)			

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	<b>Brought Forward</b>			R
	<b><u>Extra over all excavations for carting away</u></b>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	5	
	<b><u>Risk of collapse of excavations</u></b>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	36	
	<b><u>Keeping excavations free of water</u></b>			
6	Keeping excavations free of all water other than subterranean water		Item	
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
7	Backfilling to trenches, holes, etc	m3	5	
8	Under floors, steps, pavings, etc	m3	5	
	<b><u>G5 filling supplied by the contractor compacted to 93% Mod AASHTO density</u></b>			
9	Under floors, steps, pavings, etc	m3	5	
	<b><u>Coarse river sand filling supplied by the contractor</u></b>			
10	Sandbed	m3	1	
	<b><u>Compaction of surfaces</u></b>			
11	Compaction of ground surface under floors etc including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	15	
	<b><u>SOIL POISONING</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 1 Earthworks (Provisional)			

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	<b>Brought Forward</b>			R	
	<b><u>Soil insecticide</u></b>				
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	15		
13	To bottoms and sides of trenches	m2	46		
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
14	Blindings	m3	1		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
15	Strip footings	m3	3		
	<b><u>Mild steel reinforcement to structural concrete work</u></b>				
16	8mm Diameter bars	t	0,23		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
17	10mm Diameter bars	t	0,23		
	<b><u>BRICKWORK</u></b>				
	<b><u>NFX clay face bricks pointed with flush horizontal and vertical joints</u></b>				
18	Half brick walls	m2	2		
19	One brick walls	m2	11		
	<b>Carried Forward</b>			R	
	Section No. 3 Guard House Bill No. 1 Earthworks (Provisional)				

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<b>Brought Forward</b>			R
<b><u>Brickwork reinforcement</u></b>			
20	75mm Wide reinforcement built in horizontally	m	24
21	150mm Wide reinforcement built in horizontally	m	129
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Guard House			
Bill No. 1			
Earthworks (Provisional)			

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Guard House Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

	<b>Brought Forward</b>			R	
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	<b><u>UNREINFORCED CONCRETE</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
1	Aprons cast in panels	m3	2		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
2	Surface beds on waterproofing	m3	2		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surface of concrete smooth with a wood float.</u></b>				
3	Surface beds, slabs, etc.	m2	15		
	<b><u>(CPAP FORMULA WORK GROUP NO. 114)</u></b>				
	<b><u>Fabric reinforcement</u></b>				
4	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	15		
	<b><u>MOVEMENT JOINTS ETC</u></b>				
	<b><u>Expansion joints with Bitumen impregnated softboard between vertical concrete and brick surfaces</u></b>				
5	15mm Joints not exceeding 300mm high	m	19		
	<b>Carried Forward</b>			R	
	Section No. 3 Guard House Bill No. 2 Concrete, Formwork and Reinforcement				



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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><b><u>SUPERSTRUCTURE</u></b></p> <p><b><u>Brickwork of NFP bricks in class II mortar</u></b></p>			
1	115mm Half brick walls	m2	7	
2	115mm Half brick walls in beamfilling	m2	3	
3	230mm One brick walls	m2	46	
	<b>Carried Forward</b>		R	
	Section No. 3 Guard House Bill No. 3 Masonry			

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<b>Brought Forward</b>			R
<b><u>Corobrick "Firelight Travertine FBX" Face bricks pointed with flush horizontal and vertical joints</u></b>			
4	Extra over for face brick work	m2	48
<b><u>Brick-on-edge header course copings, sills, etc of clay face bricks pointed with recessed joints on all exposed faces</u></b>			
5	Brickwork for brick-on-edge header course 150mm wide sill projected at 45 degrees	m	7
6	Brickwork for brick-on-edge header lintel	m	9
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Air bricks etc</u></b>			
7	229 x 76mm Clay vermin proof air brick	No	2
<b><u>Brickwork reinforcement</u></b>			
8	75mm Wide reinforcement built in horizontally	m	20
9	150mm Wide reinforcement built in horizontally	m	121
<b><u>Prestressed fabricated lintels</u></b>			
10	110 x 75mm Lintels in lengths not exceeding 3m	m	20
<b><u>Galvanised hoop iron cramps, ties, etc</u></b>			
11	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	20
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Guard House			
Bill No. 3			
Masonry			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b>			
1	150mm thick half brick walls	m2	0,3	
2	220mm thick in one brick walls	m2	4	
	<b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
3	Under surface beds	m2	12	
	<b><u>JOINT SEALANTS, ETC</u></b>			
	<b><u>"Denbraven LM15" polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>			
4	10 x 10mm expansion joints in floors	m	19	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	Section No. 3 Guard House Bill No. 4 Waterproofing			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>SAFLOK 700 Roofing Sheets (Green) Laid at 17 Degree pitch on 38 x 76mm SAP Battens at 1200mm Centres Max on Timber trusses:</u></b>			
1	Roof covering with pitch exceeding 25 degrees and not exceeding but 30 degrees	m2	37	
2	300mm wide ridge capping	m	16	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
3	Insulation laid taut over rafters (at approximately 1 200mm centres) and fixed concurrent with battens, purlins, etc	m2	15	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3		R	
	Guard House			
	Bill No. 5			
	Roof Covering			

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Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.126 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Particle board:</u></b></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><b><u>Joinery:</u></b></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><b><u>Fixing</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><b><u>Decorative laminate finish:</u></b></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Plate nailed timber roof truss construction</u></b></p>			
<p><b>Carried Forward</b></p>		R	
<p>Section No. 3 Guard House Bill No. 6 Carpentry and Joinery</p>			

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<b>Brought Forward</b>				R	
<b><u>Sawn softwood</u></b>					
1	38 x 114mm Wall plates	m	15		
2	Design, manufacture and deliver on site, plate nailed roof truss construction to Early Childhood Development Building, size 37m <sup>2</sup> overall on plan consisting of ten pitched trusses, each truss 2500 x 500mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing, hip rafters, jack trusses, etc (wall plates measured elsewhere)				
	.	No	1		
3	Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m <sup>2</sup>	37		
<b><u>Sundries</u></b>					
4	Two coats creosote on sawn timbers	m <sup>2</sup>	1		
<b><u>EAVES , VERGES , ETC</u></b>					
<b><u>PVC Fascia boards</u></b>					
5	9 x 225mm fascia boards including galvanised steel H-profile jointing strips	m	24		
<b><u>DOORS, ETC</u></b>					
<b><u>Wrought meranti doors hung to steel frames</u></b>					
6	Door 813 x 2 032 x 44mm Hardwood "Meranti" timber door with horizontal slates.	No	2		
<b>Carried Forward to Summary of Section No. 3</b>				R	
Section No. 3					
Guard House					
Bill No. 6					
Carpentry and Joinery					

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions:</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<b><u>CEILINGS ETC</u></b>			
	<b><u>"Aerolite" insulation</u></b>			
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	12	
	<b><u>6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u></b>			
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	12	
3	2Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 7 Ceilings, Partitions and Access Flooring			



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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:            BS Satin bronze lacquered            CH Chromium plated            SC Satin chromium plated            SE Silver enamelled            GE Grey enamelled            AS Anodised silver            AB Anodised bronze            AG Anodised gold            ABL Anodised black            PB Polished brass            PL Polished and lacquered            PT Epoxy coated            SD Sanded            NP Nickle plated</p> <p><b><u>HINGES, BOLTS, ETC.</u></b></p> <p><b><u>HINGES</u></b></p> <p><b><u>"Dorma"</u></b></p>			
1	DBB-SS-009 102 x 75 x 3mm Stainless steel two ball bearing butt hinge.	No	4	
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 8 Ironmongery			

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	<b>Brought Forward</b>			R
	<b><u>"Union"</u></b>			
2	CZ682-24-61SC Gower 4-lever locksets	No	2	
	<b><u>HANDLES</u></b>			
	<b><u>"Dorma"</u></b>			
3	DPH213 350 x 32mm stainless steel "D" shaped straight back-to-back pull handles.	No	2	
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Dorma"</u></b>			
4	150mm Chrome plated cabin hooks and eyes	No	2	
5	AL8722AS Rubber buffer hat and coat hook / door stop	No	2	
	<b><u>BATHROOM FITTINGS</u></b>			
	<b><u>"Kimberley-Clark"</u></b>			
6	Kimberly-Clark Professional SQ3 toilet tissue dispenser colour White (code: SA405607), overall size 130 x 135 x 360mm high, installed by Kimberly-Clark installation team.	No	1	
7	Kimberly-Clark Professional series I twinpak Skincare soap dispenser colour White (code: SA921950), overall size 184 x 110 x 264mm high, installed by Kimberly Clerk installation team.	No	1	
	<b><u>WALL-MOUNTED WASTE BIN</u></b>			
8	334 x 258 x 635mm high Kimberly Clark Professional Reflex Disposal Wall Mounted Waste Bin (colour: WHITE-code: SA426213). Installation by a Kimberly Clark team.	No	1	
	<b><u>SIGNAGE</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 8 Ironmongery			

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<b>Brought Forward</b>				R
<b><u>All signage to be fixed with adequate heavy duty "no nails double sided tape to top of door</u></b>				
9	70mm high white perspex with black vinyl "WC" perspex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1	
10	70mm high white perspex with black vinyl letters. " Guard House " perspex length to be adjusted to accommodation room designation. FONT TYPE: Bookman Old in capital letters.	No	1	
11	"AL5066-06ASE06" 152 x 152mm anodised aluminium plate with fire extinguisher symbol	No	1	
12	"AL5066-06ASE05" 152 x 152mm anodised aluminium plate with fire hose reel symbol	No	1	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Guard House				
Bill No. 8				
Ironmongery				

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><b><u>PRESSED STEEL DOOR FRAMES</u></b></p> <p><u>1,2 mm double rebate door frame suitable for one brick wall</u></p>			
1	Frame for door 813 x 2 032mm high	No	2	
	<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p> <p><b><u>WINDOWS</u></b></p> <p><b><u>Purpose made Bronze anodized aluminium windows factory fitted with aluminium alloy glazing beads suitable for harsh marine climate</u></b></p>			
2	600mm wide x 600mm high	No	1	
3	1800mm wide x 1200mm high	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 9 Metal Work			

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	Brought Forward		R
4	1200mm wide x 900mm high	No	1
	Carried Forward to Summary of Section No. 3		R
	Section No. 3 Guard House Bill No.9 Metal Work		

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLASTERING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.			
	<b><u>SCREEDS</u></b>			
	<b><u>1:4 Cement plaster screeds wood floated on concrete</u></b>			
1	25mm Thick on floors and landings	m2	12	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>1 coat wood float plaster. 1 coat 2mm trowelled - on "Pourpet" finish to concrete smooth finish for internal purposes</u></b>			
2	On walls	m2	54	
3	On narrow widths	m2	1	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	Section No. 3 Guard House Bill No. 10 Plastering			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>TILING</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP formula purposes.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<b><u>WALL TILING</u></b>			
	<b><u>(PC Amount R120.00/m2) for wall tile size: 200 x 200 x 6mm thick tiles fixed with straight joint in both directions adhesive to manufacturer</u></b>			
1	Internal walls	m2	1	
	<b><u>FLOOR TILING</u></b>			
	<b><u>(PC Sum of R150 per m2) for Floor tiles size 300 x 300 x 10mm fixed to floors with straight joints in both directions with the recommended ceresit Tylon adhesive (elsewhere) and flush pointed with Ceresit Tylon</u></b>			
2	On floors and landings	m2	12	
3	100mm skirting	m	18	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3			R
	Guard House			
	Bill No. 11			
	Tiling			

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>"Polycop" polypropylene pipes:</u></b></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><b><u>Concrete pipes:</u></b></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><b><u>uPVC pipes and fittings:</u></b></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><b><u>uPVC pressure pipes and fittings:</u></b></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Guard House Bill No. 12 Plumbing and Drainage (Provisional)</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><b><u>Copper pipes:</u></b></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><b><u>Fixing of pipes</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><b><u>Reducing fittings</u></b></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><b><u>Wire gratings</u></b></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Guard House Bill No. 12 Plumbing and Drainage (Provisional)</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Exposed concrete surfaces</u></b></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><b><u>Excavations</u></b></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><b><u>Laying, backfilling, bedding, etc. of pipes</u></b></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:  SABS 1200 L : Medium-pressure pipelines  LD : Sewers  LE : Stormwater drainage  Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200  DB : Earthworks (Pipe trenches)  Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200  LB : Bedding (Pipes).  Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><b><u>Flush pans</u></b></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3  Guard House  Bill No. 12  Plumbing and Drainage (Provisional)</p>		R	

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	<b>Brought Forward</b>			R
	<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></b>			
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable			
	<b><u>Waste unions</u></b>			
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
	<b><u>(CPAP FORMULA WORK GROUP 148)</u></b>			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>0,8mm Seamless Aluminium OGEE gutters and rainwater pipes with baked enamel finish</u></b>			
1	150 x 125mm gutters	m	24	
2	100 x 75mm Diameter rainwater pipes	No	4	
3	Extra over gutter for outlet for 75mm pipe	No	4	
4	Extra over rainwater pipe for shoe	No	4	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal"</u></b>			
5	"Vaal" Hibiscus Basin Product code: 7023 with two semi punched tapholes, intergreted overflow and chainstay hole thru the centre semi-punched taphole.	No	1	
6	"Vaal Pearl Paraplegic Semi Close Couple Suite" product code: 73005C supplied with purpose made C.P side flush lever (right) and purpose made urea seat and cover plate	No	1	
	<b><u>WASTE UNIONS, ETC</u></b>			
	<b><u>"Cobra Watertech"</u></b>			
7	32mm "345/50CP" bottle trap	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Guard House Bill No. 12 Plumbing and Drainage (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Brought Forward			R
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>Brass</u></b>			
8	22mm Stopcock	No	2
<b><u>"Cobra Watertech"</u></b>			
9	"COBRA" Xena Pillar taps code XE-214-15	No	1
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
10	50mm Pipes	m	50
11	110mm Pipes	m	50
<b><u>Extra over uPVC pipes for fittings</u></b>			
12	110mm Reducer	No	2
13	50mm Bend	No	4
14	110mm Pan connector	No	1
15	50mm Access bend	No	2
16	110mm Access bend	No	3
17	50mm Access junction	No	1
18	110mm Access bend with anti-syphon horn	No	1
19	50mm "GI Two-way" vent valve	No	1
<b><u>Sundries</u></b>			
20	Testing waste pipe system		Item
<b><u>WATER SUPPLIES</u></b>			
Carried Forward			R
Section No. 3 Guard House Bill No. 12 Plumbing and Drainage (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

		<b>Brought Forward</b>		<b>R</b>
		<b><u>Class 0 copper pipes</u></b>		
21	15mm Pipes	m	60	
22	15mm Pipes chased into brick walls	m	20	
23	22mm Pipes	m	20	
24	22mm Pipes chased into brick walls	m	20	
25	28mm Pipes chased into brick walls	m	10	
		<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>		
26	15mm Fittings	No	10	
27	22mm Fittings	No	10	
28	28mm Fittings	No	5	
		<b><u>TESTING</u></b>		
29	Testing water pipe system		Item	
		<b><u>FIRE APPLIANCES ETC</u></b>		
		<b><u>"Chubb"</u></b>		
30	4,5kg Carbon dioxide fire extinguisher complete with 520 x 115 x 22mm thick timber backboard plugged to wall and varnished	No	1	
		<b>Carried Forward to Summary of Section No. 3</b>		<b>R</b>
Section No. 3				
Guard House				
Bill No. 12				
Plumbing and Drainage (Provisional)				

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>GLAZING</u></b></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes</p> <p><b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b></p> <p><b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b></p>			
1	400 x 900 x 4mm "GG" quality polished glass mirror: Fixed to wall with vertical strips of double sided adhesive tape. One mirror per wash hand basin.	No	1	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3 Guard House Bill No. 13 Glazing		R	

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 14</u></b>			
	<b><u>PAINTWORK</u></b>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes			
	<b><u>ON FLOATED PLASTER</u></b>			
	<b><u>Prime with One coat Plascon Plaster Primer and two coats Plascon Plaster Primer on walls.</u></b>			
1	On internal walls	m2	55	
	<b><u>ON PLASTERBOARD</u></b>			
	<b><u>Prime with one coat Professional Plaster Primer and two coats Professional Evaluation Acrylic</u></b>			
2	On Gypsum Ceilings and Cornices	m2	12	
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
3	On fascias and bargeboards	m2	10	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u></b>			
4	On doors frames	m2	3	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
5	On doors	m2	7	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3 Guard House Bill No. 14 Paintwork			R

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Bill No	Section No. 3 Guard House <b><u>SECTION SUMMARY - Guard House</u></b>	Page No	Amount
1	Earthworks (Provisional)	-42-	
2	Concrete, Formwork and Reinforcement	-45-	
3	Masonry	-47-	
4	Waterproofing	-48-	
5	Roof Covering	-49-	
6	Carpentry and Joinery	-51-	
7	Ceilings, Partitions and Access Flooring	-53-	
8	Ironmongery	-56-	
9	Metal Work	-58-	
10	Plastering	-59-	
11	Tiling	-60-	
12	Plumbing and Drainage (Provisional)	-66-	
13	Glazing	-67-	
14	Paintwork	-68-	
	<b>Carried to Final Summary</b>		R
	Section No. 3 Guard House		



**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>PARKING AND DRIVEWAYS (PROVISIONAL)</u></b>			
	NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill			
	NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density			
	-----			
	<b><u>EARTHWORKS</u></b>			
	<b><u>(HAYLETT FORMULA WORK GROUP NO. 104)</u></b>			
1	Open face excavations in earth to reduce levels	m3	150	
2	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	150	
3	Extra over open face excavations in earth for excavations in soft rock	m3	15	
4	Extra over open face excavations in earth for excavations in hard rock	m3	8	
5	Allow for keeping all excavations entirely free from water and mud		Item	
6	125mm base layer of selected gravel material to comply with minimum CBR 15 and maximum PI 12, imported from commercial sources and compacted to 95% modified AASHTO density	m3	75	
7	Over site of G7 sub-base layer C4 material in accordance with SABS 1200 ME, stabilised to attain UCS 1,5 MPa after seven days and compacted to 95% Mod AASHTO density	m3	75	
	<b>Carried Forward</b>			R
	Section No. 4 External Works Bill No. 2 Parking and Driveways (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

<b>Brought Forward</b>			R
8	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2	501
9	25mm thick layer clean, dry, riversand layer treated with an approved weed killer at the rate of 50 gram per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	501
10	Tests to determine the degree of compaction, etc. of ground or filling	No	10
<b><u>PRECAST CONCRETE</u></b>			
<b><u>(HAYLETT FORMULA WORK GROUP NO. 112)</u></b>			
<b><u>Light grey "Grinaker G-blocks" interlocking precast concrete (35 MPa) paving blocks laid with butt joints on 50mm thick river sand bed with sand swept into joints including preparation of ground or filling</u></b>			
11	80mm paving blocks	m2	501
12	Extra over for edge blocks	m	14
<b><u>KERBS, CHANNELS, ETC</u></b>			
13	Concrete barrier kerbing	m	135
<b><u>METALWORK</u></b>			
<b><u>(HAYLETT FORMULA WORK GROUP NO. 136)</u></b>			
14	Standard "STOP" sign with standard 50mm diameter galvanised mild steel fixing post bedded into and including bases, including all necessary mass concrete, excavations, etc.	No	2
<b><u>PAINTING</u></b>			
<b><u>(HAYLETT FORMULA WORK GROUP NO. 152)</u></b>			
<b>Carried Forward</b>			R
Section No. 4 External Works Bill No. 2 Parking and Driveways (Provisional)			



**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>STORMWATER DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p>The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill</p> <p>Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation</p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking</p> <p align="center">_____</p> <p><b><u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u></b></p>			
1	Storm water channel 750mm wide x 150mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 1800mm long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavation and formwork	m	80	
2	Extra Over for Rainwater Catch pits	No	1	
	<b>Carried Forward to Summary of Section No. 4</b>			R
	Section No. 4 External Works Bill No. 3 Stormwater Drainage (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WALKWAYS (PROVISIONAL)</u></b>			
	NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density			
	-----			
	<b><u>EARTHWORKS</u></b>			
	<b><u>(HAYLETT FORMULA WORK GROUP NO. 104)</u></b>			
1	Open face excavations in earth to reduce levels	m3	23	
2	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	23	
3	Extra over open face excavations in earth for excavations in soft rock	m3	2	
4	Extra over open face excavations in earth for excavations in hard rock	m3	1	
5	Allow for keeping all excavations entirely free from water and mud		Item	
6	125mm base layer of selected gravel material to comply with minimum CBR 15 and maximum PI 12, imported from commercial sources and compacted to 95% modified AASHTO density	m3	23	
7	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2	156	
	<b>Carried Forward</b>			R
	Section No. 4 External Works Bill No. 4 Walkways (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

	<b>Brought Forward</b>			R	
8	25mm thick layer clean, dry, riversand layer treated with an approved weed killer at the rate of 50 gram per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	156		
9	Tests to determine the degree of compaction, etc. of ground or filling	No	3		
	<b><u>PRECAST CONCRETE</u></b>				
	<b><u>(HAYLETT FORMULA WORK GROUP NO. 112)</u></b>				
	<b><u>Light grey "Grinaker G-blocks" interlocking precast concrete (35 MPa) paving blocks laid with butt joints on 50mm thick river sand bed with sand swept into joints including preparation of ground or filling</u></b>				
10	60mm paving blocks	m2	156		
	<b><u>KERBS, CHANNELS, ETC</u></b>				
11	Concrete Mountable kerbing	m	105		
	<b>Carried Forward to Summary of Section No. 4</b>			R	
	Section No. 4				
	External Works				
	Bill No. 4				
	Walkways (Provisional)				

Construction of Early Childhood Development Centre  
Mpumalanga Province

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>FENCING AND BOUNDRY WALL (PROVISIONAL)</u></b>			
	<b><u>BOUNDRY WALL</u></b>			
	<u>(CPAP formula work group no. 102)</u>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trenches	m3	24	
	<b><u>Extra over all excavations for carting away</u></b>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	24	
	<b><u>Risk of collapse of excavations</u></b>			
3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	94	
	<b><u>Earth filling obtained from the excavations and/or prescribed stockpiles on site compacted to 93% Mod. AASHTO density</u></b>			
4	Backfilling to trenches, holes, etc	m3	9	
	<u>(CPAP formula work group no. 110)</u>			
	<b><u>25MPa/19mm Unreinforced concrete cast against excavated surfaces</u></b>			
5	Surface blinding under footings and bases	m3	1	
6	Strip footings	m3	7	
	<u>(CPAP formula work group no. 116)</u>			
	<b>Carried Forward</b>		R	
	Section No. 4 External Works Bill No. 5 Fencing and boundry walls (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

	<b>Brought Forward</b>			R
	<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
7	One brick walls	m2	156	
	<b><u>Brickwork reinforcement</u></b>			
8	150mm Wide reinforcement built in horizontally	m	694	
	<b><u>Corobrick "Firelight Travertine FBX" Face bricks pointed with flush horizontal and vertical joints</u></b>			
9	Extra over brickwork for face brickwork	m2	283	
	<b><u>Brick-on-edge header course copings, sills, etc of external face bricks (Prime Cost Amount R 3 500.00/1000) pointed with recessed joints on all exposed faces</u></b>			
10	Coping on top of one brick wall	m	59	
	<b><u>STEEL FENCING</u></b>			
	<b><u>DIAMOND MESH FENCE</u></b>			
	<b><u>Security fencing, gates, etc including two coats aluminium paint on metal stays, framing, etc</u></b>			
11	Fencing formed of I section or Y section standards 1800mm long at maximum 2,5m centres driven into ground and with droppers 2,4m long at maximum 2,5m centres and 2 strands of galvanised barbed wire tied to standards, posts and eye bolts	m	52	
12	Diamond Mesh Gate 1m x 1,8m high	No	1	
	<b><u>WELDED SECURITY FENCING</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
13	Holes	m3	7	
	<b>Carried Forward</b>			R
	Section No. 4 External Works Bill No. 5 Fencing and boundry walls (Provisional)			

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

	<b>Brought Forward</b>			R	
	<b><u>Risk of collapse of excavations</u></b>				
14	Sides of trench and hole excavations not exceeding 1,5m deep	m2	60		
	<b><u>Soil insecticide</u></b>				
15	To bottoms and sides of trenches etc	m2	60		
	<b><u>20MPa/19mm Concrete</u></b>				
16	Bases	m3	4		
	<b><u>Welded steel palisade security fencing with posts encased in concrete footings</u></b>				
17	Palisade security fencing in 2.1 x 3m panels made of 60 x 60 x 5mm slotted channels top and bottom rails , filled in vertically with 30 x 30 x 3mm hot rolled angle palisades 1800mm long at 150mm centres, panels fixed to 76 x 76 x 3mm posts with devils fork end at the top and bottom cast into concrete bases 500 x 500 x 500mm thick (elsewhere).	m	179		
	<b><u>Gates, screens, etc.</u></b>				
18	Manually operated sliding gate 6 000 x 2 440mm high overall, the outer frame of 75 x 75 x 5mm square tubing and 50 x 50 x 2.5mm welded mesh welded to frame work, complete with industrial type roller wheels rolling on ground track and mechanical operating mechanism and padbolt	No	1		
19	1500mm wide x 2400mm high palisade fence Gate complete including locking mechanism	No	1		
	<b><u>Plascon zinc phosphate primer undercoat and plascon super universal enamel top coat</u></b>				
20	On gates, grilles, palisade fencing, etc.(both sides measured over the full flat area)	m2	781		
	<b>Carried Forward to Summary of Section No. 4</b>			R	
	Section No. 4				
	External Works				
	Bill No. 5				
	Fencing and boundry walls (Provisional)				

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

Section No. 4				
External Works				
<b><u>SECTION SUMMARY - External Works</u></b>				
<b>Bill No</b>		<b>Page No</b>		<b>Amount</b>
1	General Site Works (Provisional)	-70-		
2	Parking and Driveways (Provisional)	-73-		
3	Stormwater Drainage (Provisional)	-74-		
4	Walkways (Provisional)	-76-		
5	Fencing and boundry walls (Provisional)	-79-		
	<b>Carried to Final Summary</b>		R	
Section No. 4				
External Works				

**Construction of Early Childhood Development Centre  
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Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>NOTES:</u></b></p> <p>1. The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries</p> <p>2. The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries</p> <p>3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <ul style="list-style-type: none"> <li>* Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted,</li> <li>* Schedule the times of availability of the hoisting equipment for each Sub-Contractor,</li> <li>* Provide all necessary personnel to operate the hoisting equipment,</li> </ul> <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>4. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p>			
<b>Carried Forward</b>			R
<p>Section No. 5 Provisional Sums Bill No. 1 Provisional Sums</p>			



**Construction of Early Childhood Development Centre  
Mpumalanga Province**

<b>Brought Forward</b>			R	
<b><u>PROVISIONAL SUMS FOR NOMINATED/SELECTED SUB-CONTRACTS</u></b>				
<b><u>Joinery Fittings</u></b>				
1	Provide the amount of R 60 000.00 ( Sixty Thousand Rand) for joinery installation to kitchen.	Item	60 000	00
2	Allow for Profit	Item		
3	Allow for general attendance	Item		
<b><u>Electrical Installation and Connection</u></b>				
4	Provide the amount of R 150 000.00 ( One Hundred and Fifty Thousand Rand) for electrical installation and connection.	Item	150 000	00
5	Allow for Profit	Item		
6	Allow for general attendance	Item		
<b><u>Mechanical Installation</u></b>				
7	Provide the amount of R 50 000.00 ( Fifty Thousand Rand) for mechanical installation.	Item	50 000	00
8	3750 Allow for Profit	Item		
9	Allow for general attendance	Item		
<b><u>Landscaping</u></b>				
10	Provide the amount of R 10 000.00 (Ten Thousand Rand) for landscaping.	Item	10 000	00
11	Allow for Profit	Item		
12	Allow for general attendance	Item		
<b>Carried Forward</b>			R	
Section No. 5 Provisional Sums Bill No. 1 Provisional Sums				

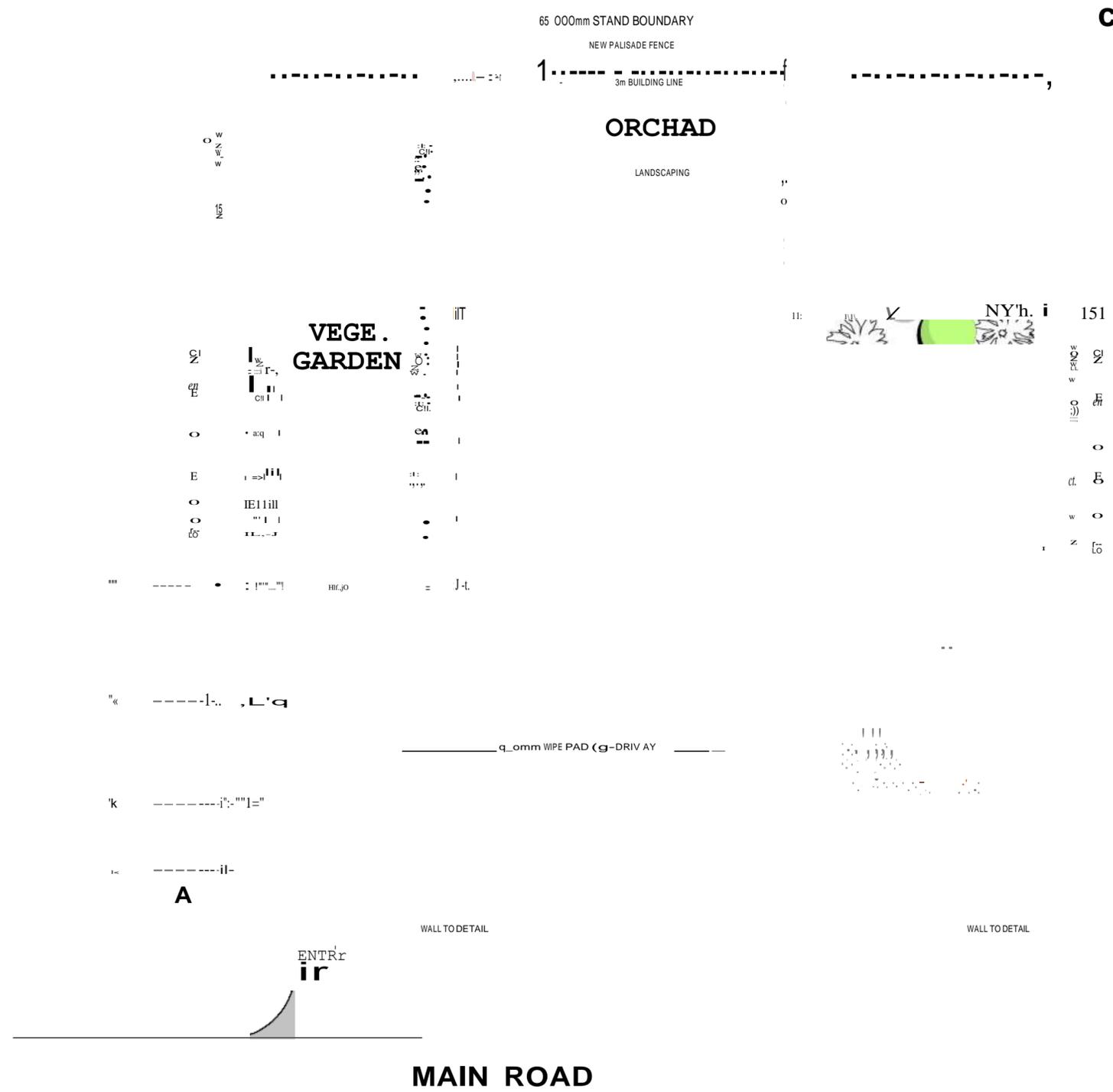
**Construction of Early Childhood Development Centre  
Mpumalanga Province**

		<b>Brought Forward</b>		<b>R</b>	
		<b><u>Play Ground Equipment</u></b>			
13	Provide the amount of R 60 000.00 (Sixty Thousand Rand) for play ground equipment, sand pit and benches installation complete.		Item	60 000	00
14	Allow for Profit		Item		
15	Allow for general attendance		Item		
		<b><u>Septic Tank</u></b>			
16	Provide the amount of R 80 000.00 (Eighty Thousand Rand) for septic tank		Item	80 000	00
17	Allow for Profit		Item		
18	Allow for general attendance		Item		
		<b><u>CLO Allowance</u></b>			
19	Provide the amount of R 25 000.00 (Twenty Five Thousand Rand) for CLO.		Item	25 000	00
20	Allow for Profit		Item		
21	Allow for general attendance		Item		
		<b><u>Borehole and Water Pump Installation</u></b>			
22	Provide the amount of R 150 000.00 (One Hundred and Fifty Thousand Rand) for boerhole equipped complete with 5000l water tank and a 3m stand.		Item	150 000	00
23	Allow for Profit		Item		
24	Allow for general attendance		Item		
		<b>Carried to Final Summary</b>		<b>R</b>	
Section No. 5					
Provisional Sums					
Bill No. 1					
Provisional Sums					

**Construction of Early Childhood Development Centre  
Mpumalanga Province**

<b>Section No</b>	<b>Page No</b>	<b>Amount</b>
<b><u>FINAL SUMMARY</u></b>		
1 Preliminaries and General	-1-	
2 ECD Building	-38-	
3 Guard House	-69-	
4 External Works	-80-	
5 Provisional Sums	-84-	
 SUBTOTAL		R
<b><u>CONTINGENCIES</u></b>		
Allow the sum of R 100 000.00 ( One Hundred Thousand Rand ) for Contingencies to be used at the discretion of the Project Manager and to be deducted in whole or in part if not required	Item	100 000 00
 SUBTOTAL		R
Add value added tax @ 14%		R
 <b>Carried to Form of Tender</b>		R

SCHEDULE OF AREAS		
ITEM	SPACE	AREA
01	ECD BLOCK	297m <sup>2</sup>
02	GUARD HOUSE	15.5m <sup>2</sup>
	TOTAL FLOOR AREA	312.5m <sup>2</sup>
PARKING BAY COUNT		
01	PARAPLEGIC BAYS 3.5x5m	01
02	PARKING BAYS 2.5x5m	07
	TOTAL PARKING BAYS	08
SITE COVERAGE		
01	TOTAL BUILT UP AREA	312.5m <sup>2</sup>
02	SITE AREA	3701.8m <sup>2</sup>
	%COVERAGE	8.4%
DENSITY CONTROLS		
01	LOT NUMBER	
02	STAND AREA	
03	MAX. FAR	
04	PROPOSED FAR	
05	MAX. HEIGHT	
06	PROPOSED HEIGHT	
07	FRONT BUILDING LINE	
08	REAR BUILDING LINE	
09	SIDE BUILDING LINE	



**NDA**  
 National  
 Development  
 Agency

**ISSUED FOR CONSTRUCTION**

- architect **dgit** ARCHITECTS  
 NELSPRUIT  
 9 Nelspruit Terr., Unit 7  
 Rivonia Park +127-082 2104922

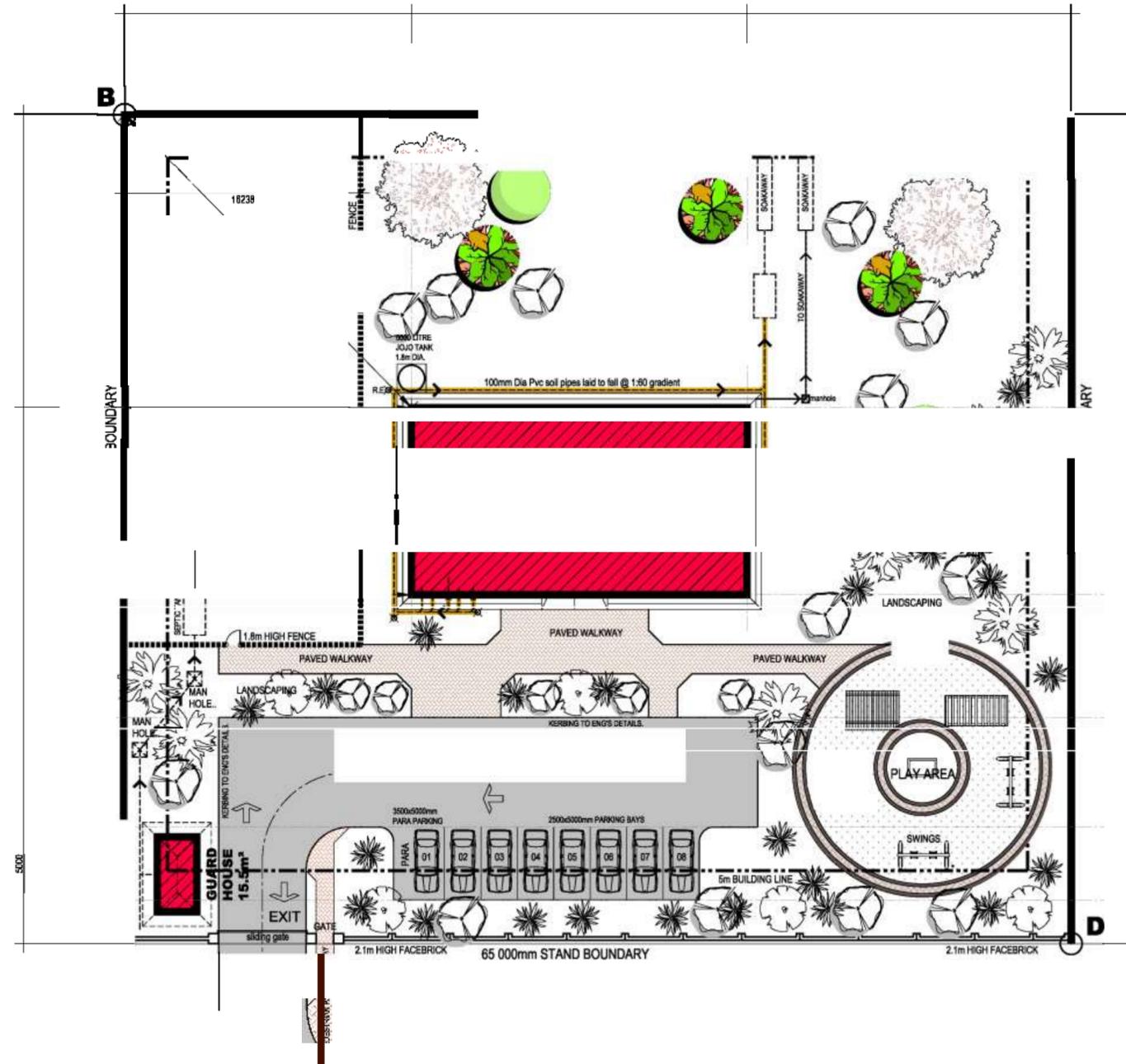
- client  
 Social Development  
 Department  
 Social Development  
 MPUMALANGA PROVINCE

PROJECT: **MPUMALANGA  
 EARLY CHILDHOOD  
 DEVELOPMENT CENTRE**

# SITE LAYOUT PROVISIONAL SITE

SCALE 1:200

TOTAL STAND AREA 3701.8m<sup>2</sup>



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 - figured dimensions to be taken in preference to scaled dimensions.  
 - report any discrepancies direct to the architect before commencing work.

LOCATION: to be done in accordance with the subs 0400

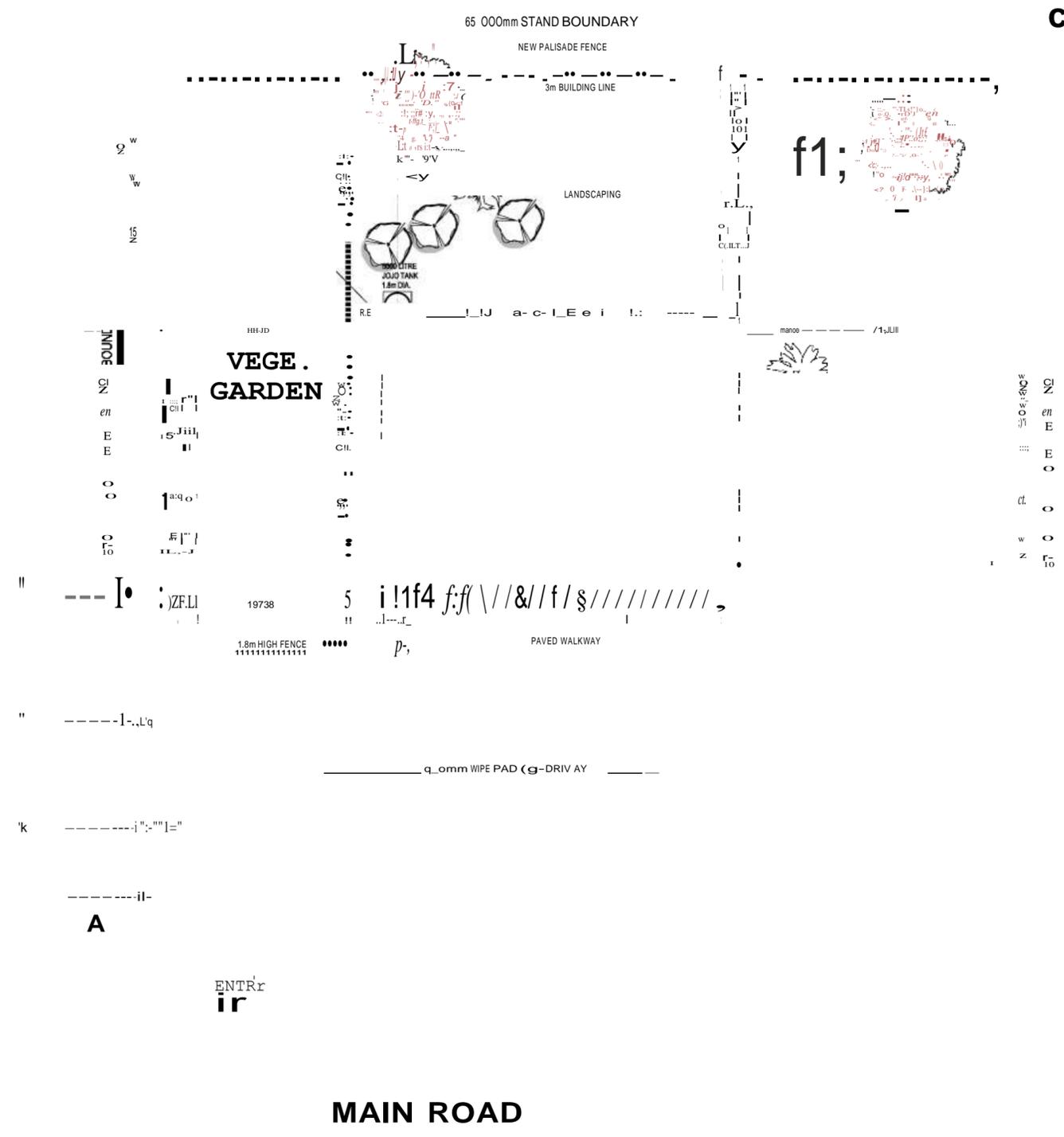
MPUMALANGA	DESCRIPTION	INIT.
DRAWING TITLE: <b>PROPOSED SITE LAYOUT</b>		
DATE: MARCH 2015	SCALE: 1:200	DRAWN: ALLIAN.M

DRAWING No.	REVISION
<b>NDA.15.01_wd101</b>	01

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REV. 1 DATE DESCRIPTION INIT.

SCHEDULE OF AREAS		
ITEM	SPACE	AREA
01	ECD BLOCK	297m <sup>2</sup>
02	GUARD HOUSE	15.5m <sup>2</sup>
TOTAL FLOOR AREA		312.5m <sup>2</sup>
PARKING BAY COUNT		
01	PARAPLEGIC BAYS- 3.5x5m	01
02	PARKING BAYS- 2.5x5m	07
TOTAL PARKING BAYS		08
SITE COVERAGE		
01	TOTAL BUILT UP AREA	312.5m <sup>2</sup>
02	SITE AREA	3701.8m <sup>2</sup>
%COVERAGE		8.4%
DENSITY CONTROLS		
01	LOT NUMBER	
02	STAND AREA	
03	MAX. FAR	
04	PROPOSED FAR	
05	MAX. HEIGHT	
06	PROPOSED HEIGHT	
07	FRONT BUILDING LINE	
08	REAR BUILDING LINE	
09	SIDE BUILDING LINE	



**NDA**  
 National  
 Development  
 Agency

**ISSUED FOR CONSTRUCTION**

architect  
**dgit**  
 ARCHITECTS  
 NELSPRUIT  
 9 Waterloo Park, Unit 7  
 Rivonia Park, 112-Tel:052 6104952

client  
 Social Development  
 Department  
 Social Development  
 MPUMALANGA PROVINCE

PROJECT:  
**MPUMALANGA  
 EARLY CHILDHOOD  
 DEVELOPMENT CENTRE**

LOCATION:  
**MPUMALANGA**

DRAWING No. **NDA.15.01\_wd101** REVISION 01

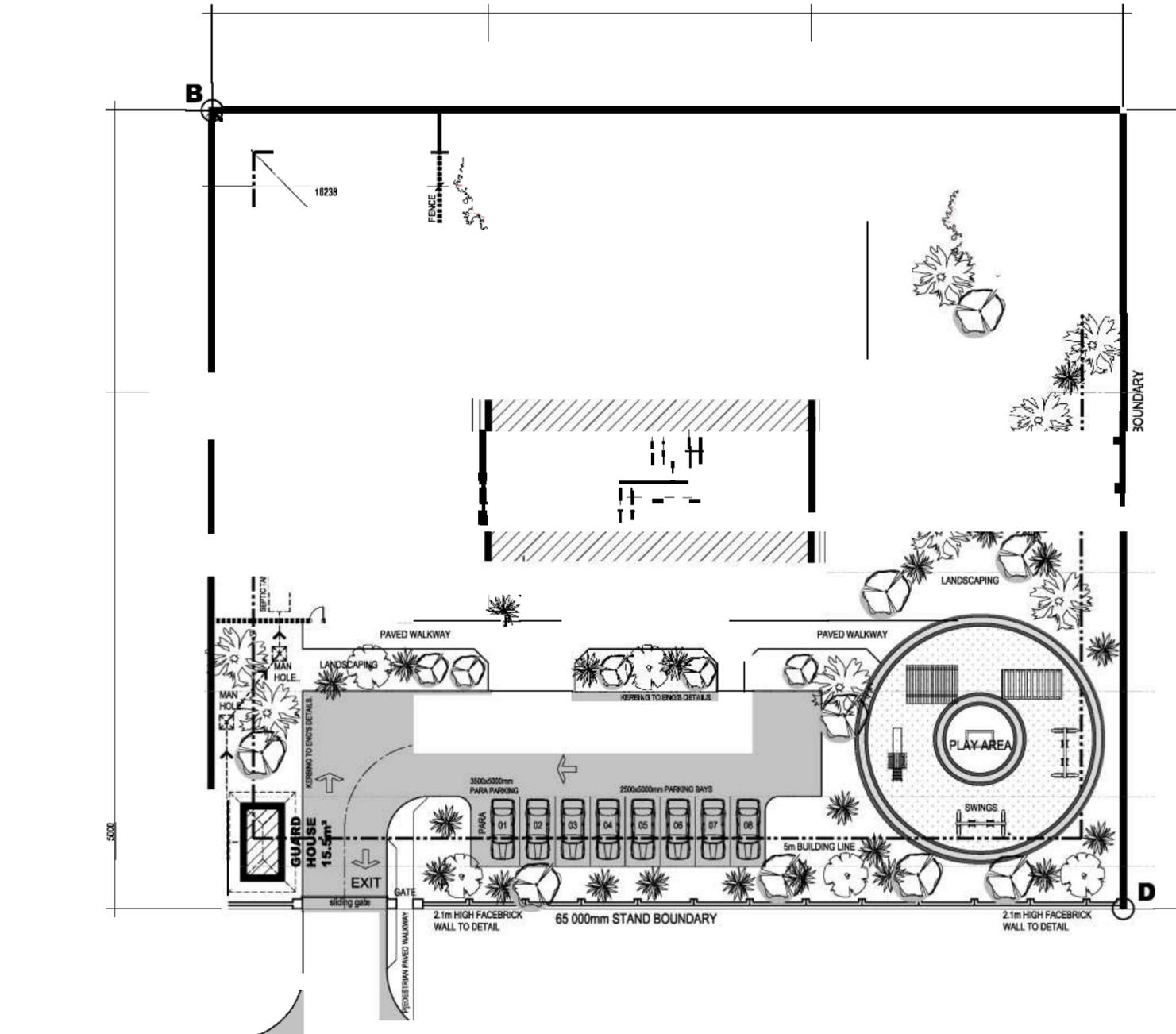
# SITE LAYOUT\_PROVISIONAL SITE

SCALE 1:200

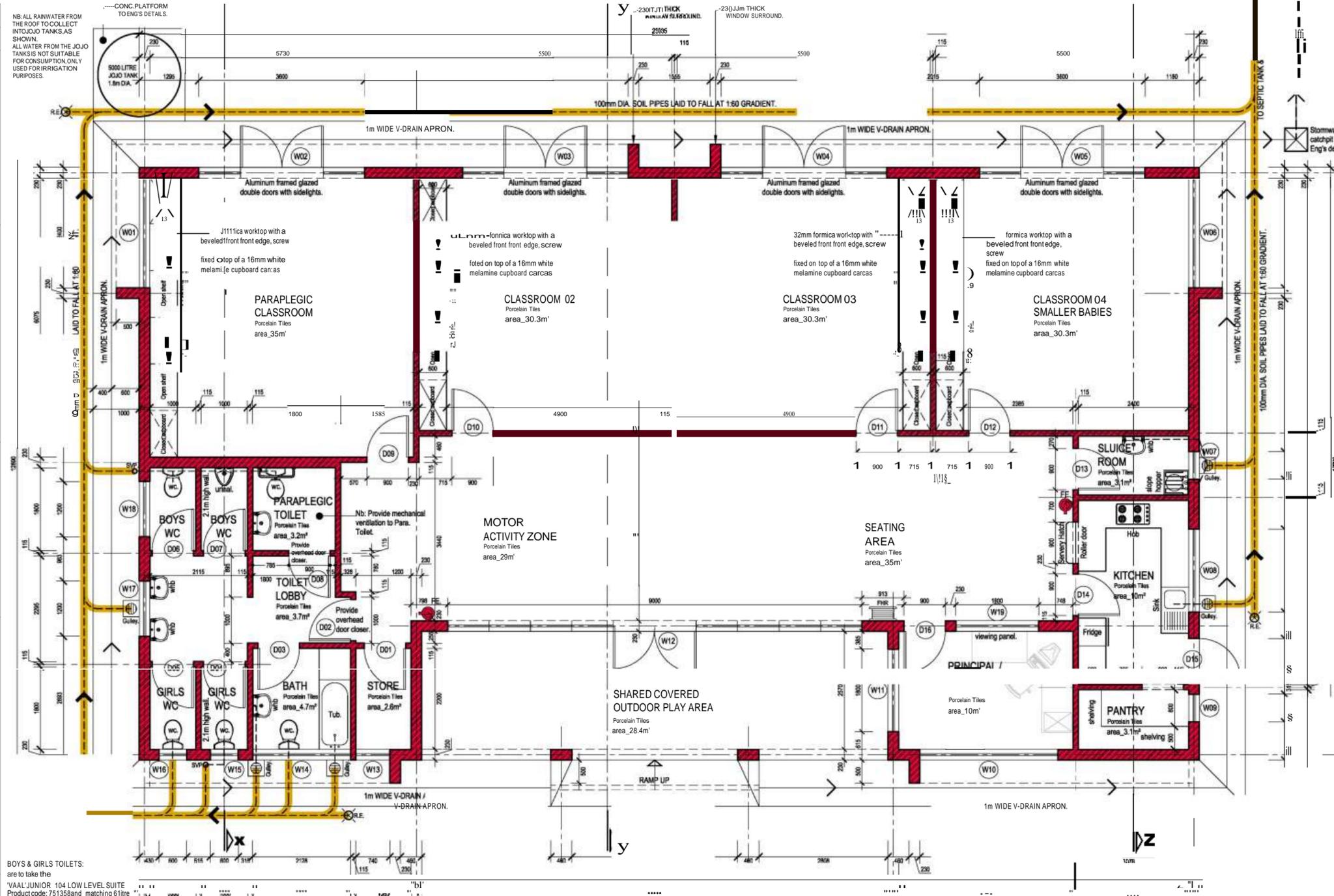
TOTAL STAND AREA 3701.8m<sup>2</sup>

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DRAWING FILE:	DATE:	DESCRIPTION:	INIT.
<b>PROPOSED SITE LAYOUT</b>			
DATE:	MARC	H 2015	ALLAN.M
		SCALE:	1:200
			DRAWN:




DOOR SCHEDULE		
TYPE	ELEVATION/DESCRIPTION	QTY
A	Frame for 230mm wall.	01
DOOR	2032x1344mm HARDWOOD 'MERANTI' TIMBER DOOR WITH HORIZONTAL SLATES. DOOR FOR VARNISHING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x13mm DOOR. PROVIDE HEAVY DUTY BRASS HINGES.	
REFERENCE	D15 KITCHEN LEFT HAND	
B	Frame for 145mm wall.	04
DOOR	1802x762x44mm HOLLOW CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 1802x762mm DOOR.	
REFERENCE	D04 GIRLS TOILET RIGHT HAND D05 GIRLS TOILET RIGHT HAND D06 BOYS TOILET LEFT HAND D07 BOYS TOILET LEFT HAND	
C	Frame for 230mm wall.	01
DOOR	2032x1344mm SEMI SOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x13mm DOOR.	
REFERENCE	D16 PRINCIPAL'S OFFICE LEFT HAND	
D	Frame for 145mm wall.	07
DOOR	2032x1344mm SEMI SOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x13mm DOOR.	
REFERENCE	D01 STORE ROOM RIGHT HAND D09 PARAPLEGIC CLASSROOM LEFT HAND D10 CLASSROOM 02 RIGHT HAND D11 CLASSROOM 03 LEFT HAND D12 CLASSROOM 04 RIGHT HAND D13 SLUICE ROOM LEFT HAND D14 KITCHEN LEFT HAND	
E	Frame for 145mm wall.	02
DOOR	2032x1344mm SEMI SOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x13mm DOOR.	
REFERENCE	D02 TOILET LOBBY RIGHT HAND D03 BATH LEFT HAND	
E	Frame for 115mm wall.	01
DOOR	2032x1002x44mm SEMI SOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.	
DOOR FRAME	DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x1002mm DOOR. WITH 200mm OBTURATE GLAZED FAULTLIGHT ON TOP. PROVIDE HEAVY DUTY HINGES.	
REFERENCE	D08 PARAPLEGIC TOILET RIGHT HAND	



BOYS & GIRLS TOILETS: are to take the 'VAAL' JUNIOR 104 LOW LEVEL SUITE Product code: 751358 and matching 6 litre cistern, Product code: 712034 (03 No.)

BOYS TOILET: 'VAAL' flatback wall flush urinal Product code: 705326 (415x315x275mm).

BATHROOM@ NORMAL HEIGHT: BOYS & GIRLS TOILET @ 600MM HEIGHT: 'VAAL' HIBISCUS BASIN, Product code: 7023 with two semi punched tapholes, integrated overflow and chainstay hole thru the centre semi-punched taphole. Provide 32mm C.P. lagged bottle traps. 'Cobra' Xena Pillar taps code\_XE-214-15

BATHROOM: 'VAAL' Hibiscus Close Coupled Suite Product code: 772654.

PARAPLEGIC TOILET: 'VAAL' Pearl Paraplegic Semi Close Couple Suite' Product code: 73005C supplied with purpose made C.P. side flush lever (light) and purpose made urea seat and cover plate.

PARAPLEGIC TOILET: 'VAAL' Hibiscus basin' Product code: 7023 with 1x12mm C.P. lever action taps and 32mm C.P. lagged bottle trap, waste outlet plug and chain. NB: cold water tap must be closest to toilet. NB: NO PEDESTAL.

Stainless steel side grab rail 'Chai111an Industries DL2' and Stainless steel side grab rail 'Chairman Industries SR2' to Paraplegic Toilet.

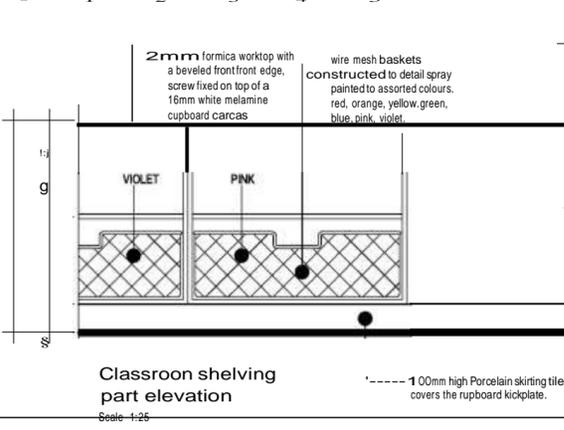
'Kimberly-Clark' lockable two roll toilet roll holder 'lockable' to all Toilets.

'Kimberly-Clark' soap dispenser, plugged to all Toilets.

'Frankie' paper towel dispenser- BS600P.

'Frankie' perforated waste container- BS610.

**DA..VCA..RE BLOCK**  
**PROPOSED FLOOR PLAN**  
 Total Floor Area = 297m<sup>2</sup>  
 Scale 1:50  
 SCALE IN METRES



**NOTE**  
 References to trade names are used only to simplify detailing. Various similar and approved products are available for approval prior to installation.

**GENERAL FIRE NOTES**  
 FIRE EXTINGUISHERS TO BE HUNG ON PURPOSE MADE BOARDS AND LOCATED IN SECURE POSITIONS AS INDICATED ON PLAN.

Kitchen worktop is to be 32mm 'Formica' laminated worktop. Product code: 271 Blackstone. screw fixed on top of a 16mm white melamine cupboard with supawood doors spray painted matt white. fitted with 156mm wide hollow stainless steel barrel handles SS202 grade, code 8235 (by Gelmor or similar approved).

'FRANKE' model: Quinline-QLX611 satin 900L x 500W Product code: B20000.

K chen sink is to take the 'Cobra' Tap- 'Selene' SE 970. single lever with aerated swivel outlet BSP female inlet.

710L x 490W x 60D 'Dely' Gemini solid plate hob (NCP) code: DCD352 Fitted to counter and installed to electrician's details.

Provide D1 no. 'Kwikot 600 Dual electric water heater slimline 100 Litres 390x480mm IJ Geyser, installed in ceiling void NB: All hot water services to be clad with insulation with min. R-value 1.

SLUICE ROOM: Provide 'VAAL' HIBISCUS BASIN, Product code: 7023 with two semi punched tapholes. Provide 32mm chrome plated bottle trap. 'Cobra' Xena Pillar taps, Code\_XE-214-15

'FRANKE' model: CH.SLOP HOPPER 540x540mm Product code: 351350 with 'Cobra' model FM.100-35mm water supply flush valve.

Provide air conditioning to the Paraplegic classroom, classroom 01, classroom 02, seating area, and Principal's office.

Supawood doors spray painted matt white. Lockable. Fitted with 119mm Thick Dee Plastic Handles in WHITE code 211 (by Gelmor or similar approved)

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REV. DATE

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CONTRACTOR TO CHECK AND VERIFY ALL LEVELS, DATUMS AND DIMENSIONS ON SITE AND SHALL REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO START OF WORKS OR DURING THE CONSTRUCTION PHASE.

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REPORT TO THE ARCHITECT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM GOOD PRACTICE DISCOVERED IN THE DRAWINGS

BEFORE TENDERING, EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND NATURE OF ALL CONDITIONS AFFECTING THE WORK, NOT EXCLUDING THE LOCATION OF ALL BURIED SERVICES WHICH MAY HAVE TO BE PROTECTED, REMOVED OR RELOCATED

MATERIALS SHALL BE THE BEST OF THEIR RESPECTIVE KINDS DESCRIBED ON THE DRAWINGS AND THE CONTRACTOR SHALL CONFORM TO THE MINIMUM STANDARD PREAMBLES IN THE BILL OF QUANTITIES OR, IN THE ABSENCE OF A BILL OF QUANTITIES, AVAILABLE FOR PERUSAL AT THE OFFICES OF THE ARCHITECT.

THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE PLANNING DEPARTMENT AND / OR THE FIRE PREVENTION OFFICER FOR ANY WORKS UNDER THEIR RESPECTIVE JURISDICTION REQUIRING INSPECTIONS PRIOR TO COVERING UP OR PROCEEDING WITH SUBSEQUENT WORK

**NDA**  
 National Development Agency

**ISSUED FOR CONSTRUCTION**

client

**MPUMALANGA**  
 Department of Social Development  
 Social Development  
 MPUMALANGA PROVINCE

PROJECT: **Mp UMALANGA EARLY CHILDHOOD DEVELOPMENT CENTRE**

LOCATION: **MPUMALANGA**

TITLE: **DAY CARE BLOCK PROPOSED FLOOR PLAN**

SCALES: MARCH 2015 1:50

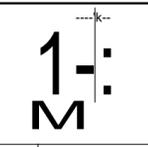
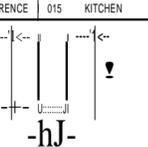
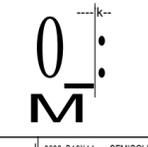
DRAWN: ALLAN.M

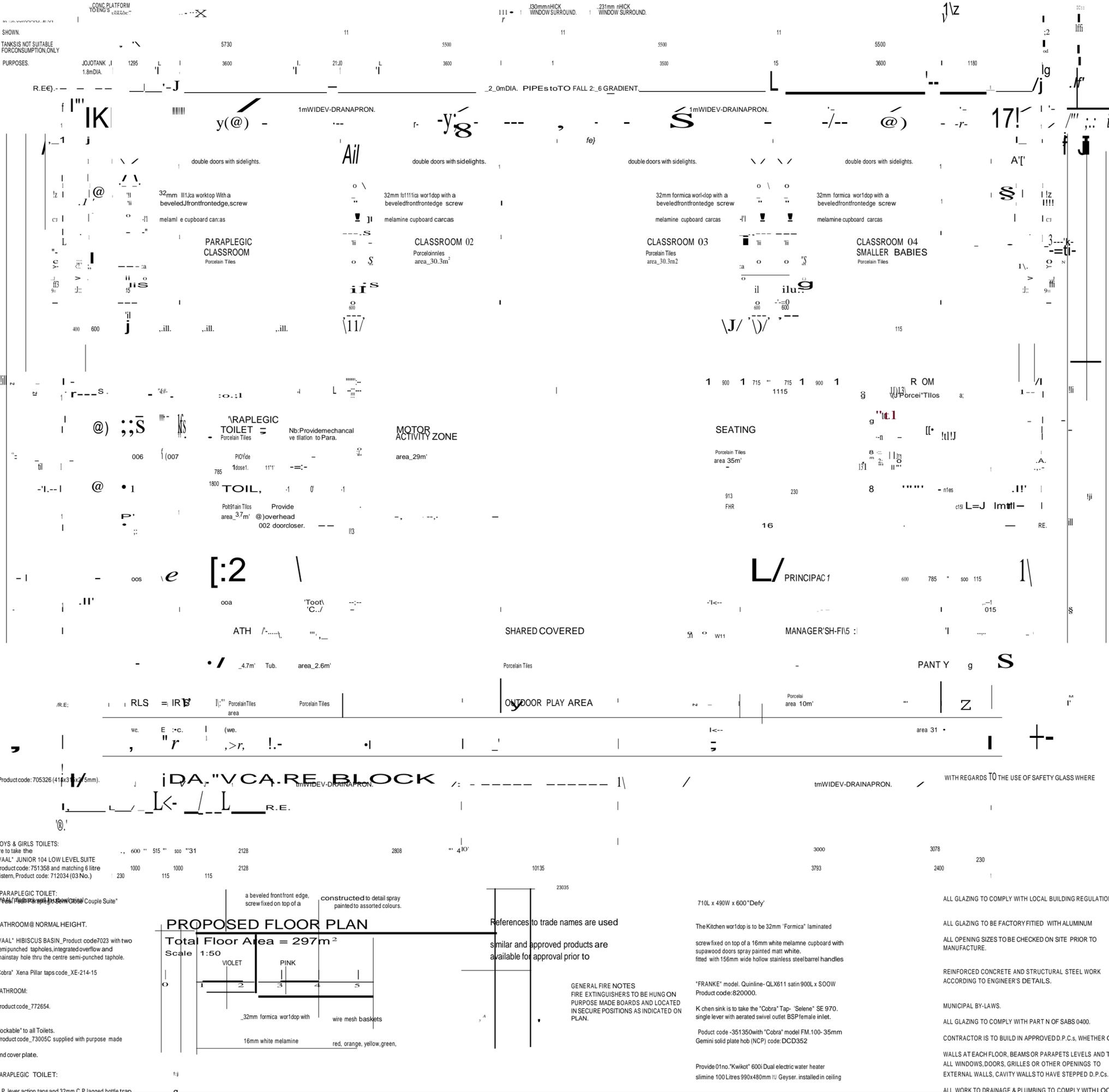
REVISION

**NDA-15.01\_wd102 01**



**DOOR SCHEDULE**

REF	ELEVATION/DESCRIPTION	QTY
A	 <p>Frame for 230mm wall.</p> <p>DOOR   2032x813x44mm HARDWOOD 'MERANTI' TIMBER DOOR WITH HORIZONTAL SLATES. DOOR FOR VARNISHING.</p> <p>DOOR FRAME   DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x813mm DOOR. PROVIDE HEAVY DUTY BRASS HINGES.</p> <p>REFERENCE   015 KITCHEN LEFT HAND</p>	01
B	 <p>Frame for 115mm wall.</p> <p>DOOR   1882x762x44mm HOLLOW CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.</p> <p>DOOR FRAME   DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 1882x762mm DOOR.</p> <p>REFERENCE   D04 GIRLS TOILET RIGHT HAND D05 GIRLS TOILET RIGHT HAND D06 BOYS TOILET LEFT HAND D07 BOYS TOILET LEFT HAND</p>	04
C	 <p>Frame for 230mm wall.</p> <p>DOOR   2032x813x44mm SEMISOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.</p> <p>DOOR FRAME   DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x813mm DOOR.</p> <p>REFERENCE   D16 PRINCIPAL'S OFFICE LEFT HAND</p>	01
D	 <p>Frame for 230mm wall.</p> <p>DOOR   2032x813x44mm SEMISOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.</p> <p>DOOR FRAME   DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x813mm DOOR.</p> <p>REFERENCE   009 PARALEGIC CLASSROOM LEFT HAND D10 CLASSROOM02 RIGHT HAND D11 CLASSROOM03 LEFT HAND D13 SLUICE ROOM LEFT HAND D14 KITCHEN LEFT HAND</p>	07
E	 <p>Frame for 115mm wall.</p> <p>VENTILATION LOUVRES.</p> <p>DOOR   2032x813x44mm SEMISOLID CORE FLUSH PANEL DOOR WITH HARDWOOD EDGING. DOOR FOR PAINTING.</p> <p>DOOR FRAME   DOUBLE REBATED GALVANIZED PRESSED STEEL FRAME. P.S. FRAME TO TAKE 2032x813mm DOOR.</p> <p>REFERENCE   D02 TOILET LOBBY RIGHT HAND D03 BATH LEFT HAND</p>	02
F	 <p>Frame for 115mm wall.</p> <p>VENTILATION LOUVRES.</p>	01



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all work to be done in accordance with the sabs 0400

REV.	DATE	DESCRIPTION	INT.

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ERRORS, DEPARTURES FROM GOOD PRACTICE DISCOVERED IN THE DRAWINGS

NATURE OF ALL CONDITIONS AFFECTING THE WORK, NOT EXCLUDING THE LOCATION OF ALL BURIED SERVICES WHICH MAY HAVE TO BE PROTECTED, REMOVED OR RELOCATED

THE DRAWINGS AND THE CONTRACTOR SHALL WHERE REQUIRED HEREIN OR PROVE THAT THE MATERIALS COMPLY HEREWITH

QUALITY OF MATERIALS & WORKMANSHIP TO COMPLY WITH THE RELEVANT BILL OF QUANTITIES AVAILABLE FOR PERUSAL AT THE OFFICES OF THE ARCHITECT.

THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE WORKS UNDER THEIR RESPECTIVE JURISDICTION REQUIRING INSPECTIONS PRIOR TO COVERING UP OR PROCEEDING WITH SUBSEQUENT WORK.

**National Development Agency**

client: **Social Development Department**  
Social Development  
MPUMALANGA PROVINCE

PROJECT: **MPUMALANGA DEVELOPMENT CENTRE**

LOCATION: **MPUMALANGA**

DRAWING TITLE: **DAY CARE BLOCK PROPOSED FLOOR PLAN**

MARCH 2015	1:50	ALLAN.M
DRAWING No.	<b>NDA.15.01_wd102</b>	REVISION
		<b>01</b>

**WINDOW SCHEDULE**

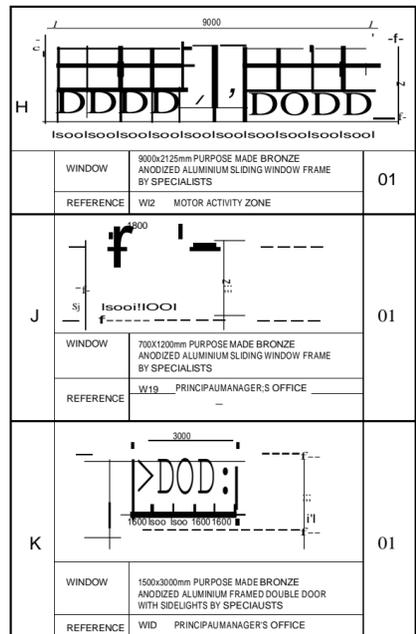
A	WINDOW	2125x3600mm PURPOSE MADE BRONZE ANODIZED ALUMINIUM FRAMED DOUBLE DOOR WITH SIDE LIGHTS BY SPECIALISTS	04
	REFERENCE	W02 PARAPLEGIC CLASSROOM W03 CLASSROOM 02 W04 CLASSROOM 03 W05 CLASSROOM 04	
8	WINDOW	ANODIZED ALUMINIUM WINDOW FRAME BY SPECIALISTS	04
	REFERENCE	W03 PARAPLEGIC CLASSROOM W04 PARAPLEGIC CLASSROOM W02 COT STORAGE W10 COT STORAGE	

C	WINDOW	1000x1800mm PURPOSE MADE BRONZE ANODIZED ALUMINIUM WINDOW FRAME BY SPECIALISTS	01
	REFERENCE	W11 PRINCIPAL MANAGERS OFFICE	

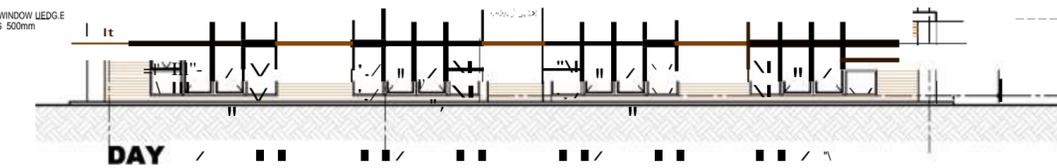
D	WINDOW	1000x2400mm PURPOSE MADE BRONZE ANODIZED ALUMINIUM WINDOW FRAME BY SPECIALISTS	01
	REFERENCE	W14 BATH	

E	WINDOW	700x1200mm PURPOSE MADE BRONZE ANODIZED ALUMINIUM WINDOW FRAME BY SPECIALISTS	01
	REFERENCE	W13 STORE	

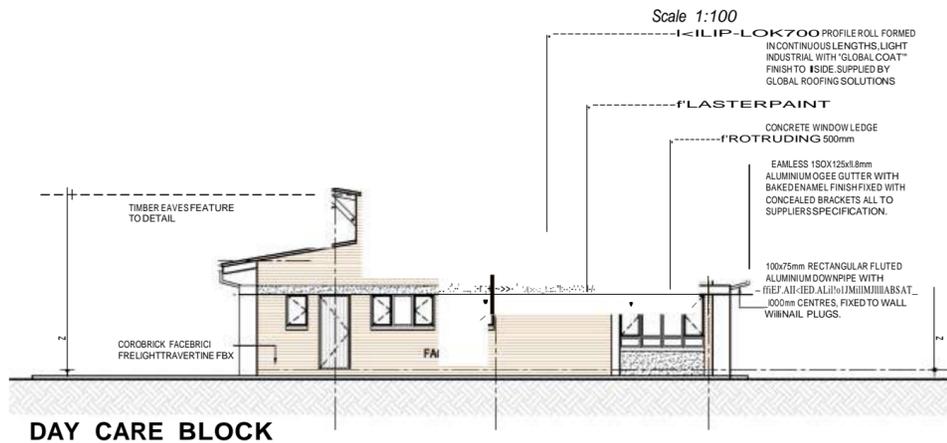
F	WINDOW	1000x1800mm PURPOSE MADE BRONZE ANODIZED ALUMINIUM WINDOW FRAME BY SPECIALISTS	01
	REFERENCE	W08 KITCHEN	



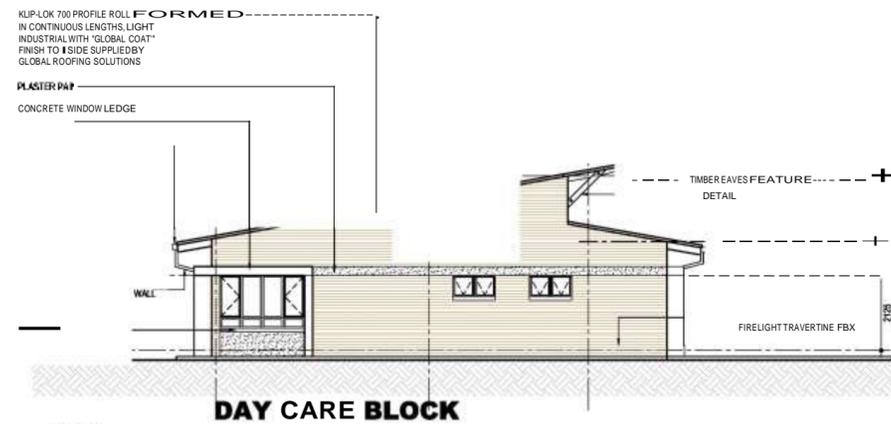
**DAY CARE BLOCK  
PROPOSED FRONT ELEVATION**



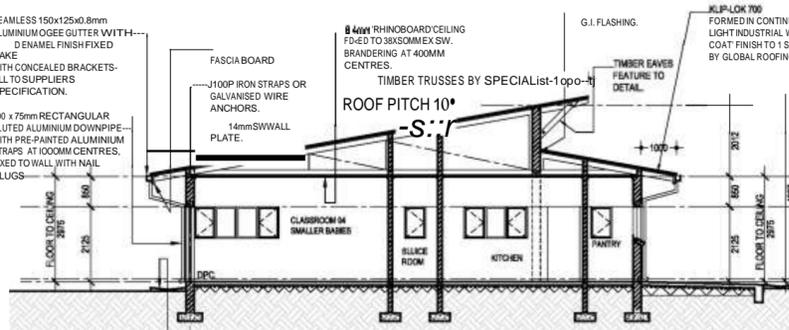
**CARE BLOCK  
PROPOSED BACK ELEVATION**



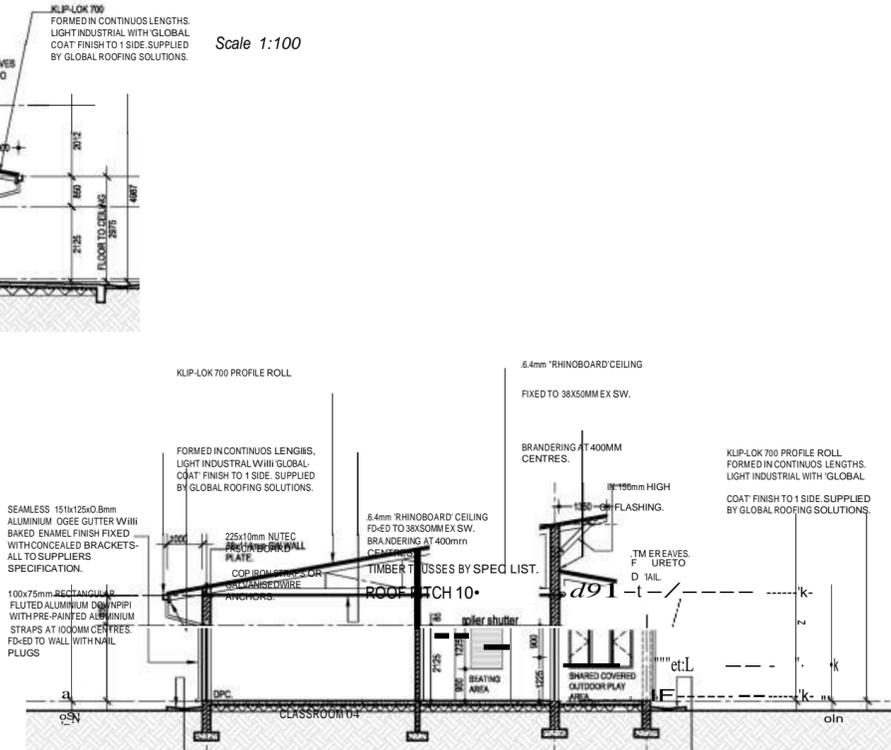
**DAY CARE BLOCK**



**DAY CARE BLOCK**



**SECTION Z-Z**



SEAMLESS 150x125x0.8mm ALUMINIUM OGEE GUTTER WITH BAKED ENAMEL FINISH FIXED WITH CONCEALED BRACKETS - ALL TO SUPPLIERS SPECIFICATION.	100 x 75mm RECTANGULAR FLUTED ALUMINIUM DOWNPIPE WITH PRE-PAINTED ALUMINIUM STRAPS AT 1000MM CENTRES. FIXED TO WALL WITH NAIL PLUGS	1000x125mm OPEN CHANNEL TO ENDS. DETAILS.	150mm HIGH G.I. FLASHING.
CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.	SEAMLESS 150x125x0.8mm ALUMINIUM OGEE GUTTER WITH BAKED ENAMEL FINISH FIXED WITH CONCEALED BRACKETS - ALL TO SUPPLIERS SPECIFICATION.	CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.	CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.

CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.	SEAMLESS 150x125x0.8mm ALUMINIUM OGEE GUTTER WITH BAKED ENAMEL FINISH FIXED WITH CONCEALED BRACKETS - ALL TO SUPPLIERS SPECIFICATION.	CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.	CLIP-LOK 700 PROFILE ROLL FORMED IN CONTINUOUS LENGTHS. LIGHT INDUSTRIAL WITH 'GLOBAL COAT' FINISH TO 1 SIDE. SUPPLIED BY GLOBAL ROOFING SOLUTIONS.
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- ALL GLAZING TO COMPLY WITH LOCAL BUILDING REGULATIONS WITH REGARD TO THE USE OF SAFETY GLASS WHERE GLAZING IS REQUIRED BELOW 900mm ABOVE FLOOR LEVEL.
- ALLOY GLAZING BEADS SUITABLE FOR HARSH MARINE.
- ALL OPENING SIZES TO BE CHECKED ON SITE PRIOR TO MANUFACTURE.
- ALL SLABS, BEAMS, COLUMNS, STAIRS AND STRUCTURAL REINFORCED CONCRETE AND STRUCTURAL STEEL WORK ACCORDING TO ENGINEER.
- ALL BUILDING WORK IS TO COMPLY WITH SABS 0400 AND LOCAL MUNICIPAL BY-LAWS.
- ALL GLAZING TO COMPLY WITH PART N OF SABS 0400.
- CONTRACTOR IS TO BUILD IN APPROVED D.P.C.S. SHOWN ON DRAWINGS. WHERE OR NOT THESE ARE FLOOR, BEAMS OR TO ALL EXTERNAL WALLS AT EACH PARAPETS LEVELS AND TO ALL WINDOWS, DOORS, GRILLES OR OTHER OPENINGS TO EXTERNAL WALLS, CAVITY WALLS TO HAVE STEPPED D.P.C.s.
- ALL WORK TO DRAINAGE & PLUMBING TO COMPLY WITH LOCAL AUTHORITY BY-LAWS & REGULATIONS.
- I.E.s TO BE PROVIDED AT ALL JUNCTIONS AND BENDS. R.E.s TO BE PROVIDED AT CHANGE OF DIRECTION AND
- DRAINAGE UNDER BUILDINGS TO BE ENCASED IN CONCRETE AND ACCESS THERETO TO BE PROVIDED FROM BOTH SIDES.
- ALL SOIL PIPES TO BE 110mm HD uPVC TO SABS 967.
- ALL HOT & COLD WATER SUPPLY TO BE IN COPPER.
- ALL PARKING BAYS SIZES EXCEPT FOR PARAPLEGIC ON PAVING WITH ROAD PAINT.
- SEE ENGINEER'S DRAWINGS FOR ALL EXTERNAL PARKING, STORMWATER, PAVING AND KERBING LAYOUTS.
- LIGHT AND VENTILATION TO COMPLY WITH PART 6 OF THE NBR.
- ALL PARTITIONING TO BE ROOFED ADEQUATE FIRE RATING.
- PROOF AND HAVE

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- REV. | DATE | DESCRIPTION

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  - CONTRACTOR TO CHECK AND VERIFY ALL LEVELS, DATUMS AND DIMENSIONS ON SITE AND SHALL REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO START OF WORKS OR DURING THE CONSTRUCTION PHASE.
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  - REPORT TO THE ARCHITECT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, BEFORE TENDERING. EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND NATURE OF ALL CONDITIONS AFFECTING THE WORK, NOT EXCLUDING THE LOCATION OF ALL BURIED SERVICES WHICH MAY HAVE TO BE PROTECTED, REMOVED OR RELOCATED.
  - THE DRAWINGS AND THE CONTRACTOR SHALL WHERE REQUIRED HEREIN OR MATERIALS SHALL BE THE BEST OF THEIR RESPECTIVE KINDS DESCRIBED ON UPON REQUEST OF THE ARCHITECT/ENGINEER. FURNISH VOUCHERS TO PROVE THAT THE MATERIALS COMPLY HERewith.

- QUALITY OF MATERIALS & WORKMANSHIP TO COMPLY WITH THE RELEVANT SABS S.B.S.S. SPECIFICATIONS & SHALL CONFORM TO THE MINIMUM STANDARD PREAMBLES IN THE BILL OF QUANTITIES OR, IN THE ABSENCE OF A BILL OF QUANTITIES, AVAILABLE FOR PERUSAL AT THE OFFICES OF THE ARCHITECT.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE PLANNING DEPARTMENT AND /OR THE FIRE PREVENTION OFFICER FOR ANY WORKS UNDER THEIR RESPECTIVE JURISDICTION REQUIRING INSPECTIONS PRIOR TO COVERING UP OR PROCEEDING WITH SUBSEQUENT WORK.



**NDA**  
National Development Agency

**ISSUED FOR CONSTRUCTION**

architect: **dgit** ARCHITECTS

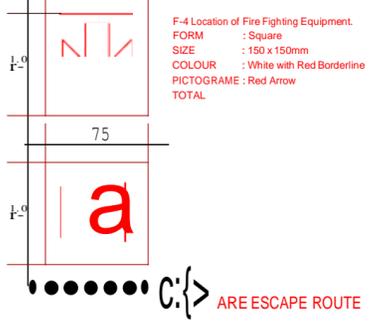
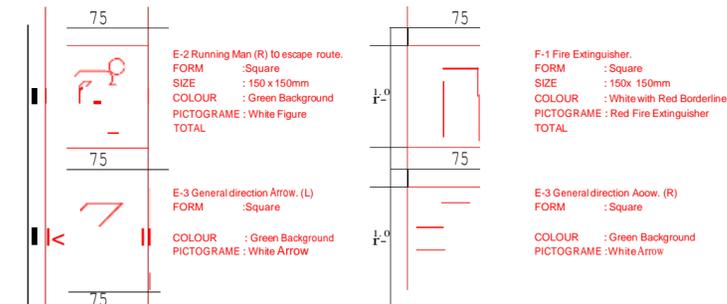
client: **Social Development**  
Department of Social Development  
MPUMALANGA PROVINCE

PROJECT: **MPUMALANGA EARLY CHILDHOOD DEVELOPMENT CENTRE**

LOCATION:



**Fire protection signage**  
 Symbolic safety sign consists of: A Geometric Shape, A Colour and A Pictogram in accordance with s.a.b.s. 1186



**OCCUPATION CLASSIFICATION: A3**

**T15. General Fire Performance:**  
 having a particular fire resistance.

**T107. Fire stability of structural elements or components:**  
 Stability of structural elements shall comply with the requirements contained in COLUMN 3 of TABLE 5 of 30 minutes.

**T15. Internal wall & partitions:**  
 Fire resistance of not less than 20 min. applicable.

In any building non-removable material shall be used in suspended ceiling.

Class 4, floor covering for G1 to comply to COLUMN 3 of TABLE 7  
 Class 3, floor covering to feeder routes to CIVITY to COLUMN 3 of TABLE 7 Class 1 floor covering to emergency routes

**T115. Wall Finishes:**  
 Class 4, wall finishes for G1 to comply to COLUMN 3 of TABLE 8  
 Class 1 and 3 Wall covering to emergency and feeder Routes

**T121. Width of escape routes :**  
 Minimum width of escape route & stairs to be 1100 mm TABLES

**T128. Lobbies, foyers etc.:**  
 Approved smoke control measures taken in entrance foyers.

**T129. Marking & Signposting:**  
 All fire fighting equipment, emergency routes and exits to be marked in compliance with T132.2, T153.4 and in accordance with SAB.S.1186

**T133. Water reticulation:**  
 Reticulation for fire fittings shall comply with the requirements contained in rule WWS

**T134. Hose reels:**  
 01 Hose Reel for every 500m<sup>2</sup> or part thereof 5x30m  
 Fire hose reel in accordance with S.A.B.S.543

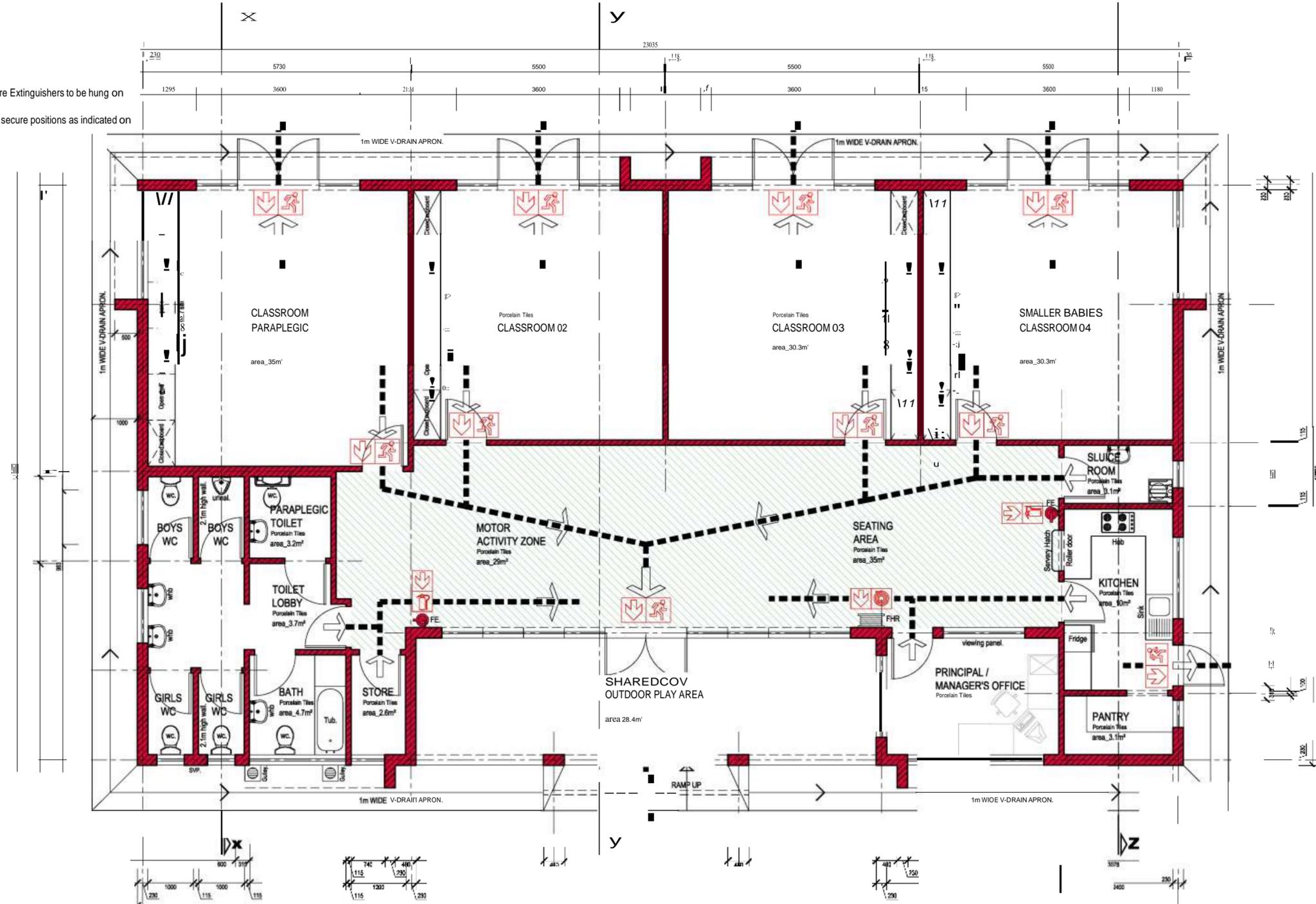
**T137. Portable fire extinguishers:**  
 1120m<sup>2</sup> Fire extinguishers to comply to COLUMN 2 of TABLE 10  
 11 x 4.5kg Dry Chemical Powder (DCP) or Carbon Dio de in accordance with S.A.B.S. 810,889 or 1151 installed and serviced in accordance with SAB.S. 0105

**T139. Fire Stopping of Inaccessible Concealed Space:** In any building there is any inaccessible concealed space with a maximum dimension of more than 5m such space shall be fire stopped.

**T141. Services in Structural or Separating Elements:**  
 Any service that penetrates through any walls and floors shall be sealed not to penetrate such walls or floors

**T143. Air-Conditioning and Ventilation Systems:**  
 Any air-conditioning system or artificial ventilation system in any building shall be so designed to prevent the distribution of products of combustion in the event of a fire in such building.

Fire Extinguishers to be hung on in secure positions as indicated on



**IDA.Y CA.RE BLOCK:  
 PROPOSED FIRE FLOOR PLAN**  
 Total Floor Area = 297m<sup>2</sup>



- this drawing is copyright and remains with the architect, any unauthorized reproduction, publication, transmission and or inclusion of any media is an infringement.
- figured dimensions to be taken in preference to scaled dimensions.
- report any discrepancies direct to the architect before commencing work.
- all work to be done in accordance with the sabs 0400

REV.	DATE

**GENERAL NOTES**

THIS DRAWING IS NOT TO BE SCALED. FIGURE DIMENSIONS TO BE USED ALL THE TIME.

CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT OF THE BUILDING, BOUNDARIES, BUILDING LINES ETC.

PUTTING ANY WORK

CONTRACTOR TO CHECK AND VERIFY ALL LEVELS, DATUMS AND DIMENSIONS ON SITE AND SHALL REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO START OF WORKS OR DURING THE CONSTRUCTION PHASE.

THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH DOCUMENTATION AS MAY BE APPLICABLE TO THE PROJECT PRIOR TO START OF WORKS AND ITS DURATION

REPORT TO THE ARCHITECT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM GOOD PRACTICE DISCOVERED IN THE

BEFORE TENDERING, EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND LOCATION OF ALL BURIED SERVICES WHICH MAY HAVE TO BE PROTECTED, REMOVED OR RELOCATED

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THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE WORKS UNDER THEIR RESPECTIVE JURISDICTION REQUIRING INSPECTIONS PRIOR TO COVERING UP OR PROCEEDING WITH SUBSEQUENT WORK



**ISSUED FOR INFORMATION**

architect **dgit**

client

**Social Development**  
 Department  
 Social Development  
 MPUMALANGA PROVINCE

**MPUMALANGA  
 EARLY CHILDHOOD  
 DEVELOPMENT CENTRE**

LOCATION  
 MPUMALANGA

TITLE:  
 DAY CARE BLOCK  
 PROPOSED FIRE FLOOR PLAN

SCALES: DRAWN:

NDA.15.01\_wd104 01

