PART 2

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Item			R	c
		Carried forward R		
		Brought forward R		
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Item			R	c
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		Brought forward R		
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	SECTION 1 **PRELIMINARIES**			
	CARRIED TO FINAL SUMMARY	**R**		

SUBTOTALS:	R	c
Category: Fixed R		
Category: Value R		
Category: Time R		

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 1			
	ALTERATIONS			
	OFFICE COMPLEX			
	SUPPLEMENTARY PREAMBLES			
	View Site			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	Explosives			
	No explosives whatsoever may be used for demolition purposes unless otherwise stated			
	Carried Forward		R	

	Brought Forward			R	
	General				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent				
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent				
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of blockwork				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)				
	REMOVAL OF EXISTING WORK				
	Relocation of existing barrier				
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
1	Allow for the removal of existing public barrier to new position as specified by the principal agent	Item			
	Carried Forward			R	

Section No. 2
Office Complex
Bill No. 1
Alterations

				R	
	Brought Forward				
2	Make good to exposed floor where public barrier was moved	m2	3		
	Re-surfacing of wooden floors:				
	Punch down nails to strip flooring where necessary. Cut if match exiting. Level off boards to match existing.				
3	Wooden Floors	m2	255		
	Remove Existing Carpet				
	Fix 500mm x 500mm x6mm stick down. 100% nylon,tufted level loop pile carpet tiles on existing wooden				
4	Carpet Tiles	m2	47		
	Remove existing skirtings and angle moulds				
	Allow for removal of the existing skirtings and angle moulds where needed. New skirtings where needed to match existing, mitred at angles and securely fixed to plugs in walls, and at junctions of skirtings and floors, fix quadrant angle moulds, neatly mitred at angles, close fitted and securely fixed, to skirtings. Remove existing coating back to bare surface. All cracks, nail holes or other defects shall be stopped with approved tinted stopping to match the colour of the wood surface. All cracked and loose stopping shall be hacked out, similarly renewed and all stopped surfaces shall be sanded down to a smooth and even surface flush with the surrounding woodwork. Apply stain as specified in bill of quantities. Colour to architects specification and colour scheme.				
5	Skirting	m	243		
	Re –fixing and replacing of vinyl tiles				
	Carried Forward			R	

				R	
	Brought Forward				
	Take up the damaged or loose floor tiles and repair screeding				
6	Vinyl Tiles	m2	24		
	Repair existing Terrazzo tiles				
7	To floors	m2	4		
	Repair existing concrete floor				
	Clean cracks out, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked.				
8	Concrete Floors	m2	32		
	Removal and replacement of damaged ceilings				
9	Ceilings	m2	119		
10	Cornices	m	126		
	Securely refix in position loose or sagging fibre cement ceiling panels, match board, cornices, cover strips and quadrants. Remove all the loose paint from ceilings to bare surface.				
11	Fiber Cement Panels	m2	21		
	Repair existing concrete ceilings				
	Clean, Prepare for and paint the fronts and underside of slabs and exposed surfaces of beams				
12	Concrete ceilings	m2	45		
	Repair defective plaster on walls				
	Carried Forward			R	

				R	
	Brought Forward				
	Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork Strip off all flaked or otherwise defective paint film				
13	Internal Walls	m2	216		
14	External Walls	m2	86		
	Taking out glass				
	Take out and remove glass and mirrors:				
15	Glass from steel windows with beads including cleaning out rebates and preparing for new glass	m2	18		
16	Glass from timber windows with beads including cleaning out rebates and preparing for new glass	m2	6		
17	Glass from timber wooden frame and louvres with beads including cleaning out rebates and preparing for new glass	m2	3		
	Making good to Furniture				
	Sand down to a smooth, even and thoroughly cleaned surface				
18	Court Furniture		Item		
19	Wall Cladding		Item		
	Making good to finishes, etc.				
	Sand down to a smooth, even and thoroughly cleaned surface, free from grease, dirt, loose or flaking paint including stopping all cracks and defects with an approved tinted stopping				
20	Timber window frame and sash, size 1060x1870mm	No	3		
21	Timber window frame and sash, size 1005 x 1720mm	No	2		
	Carried Forward			R	

Section No. 2
Office Complex
Bill No. 1
Alterations

				R	
	Brought Forward				
22	Timber window frame and sash, size 1060 x 1870mm	No	2		
23	Timber window frame and louvre, size 1255 x 2190mm	No	1		
	Adjust hinges, fittings and refix where loose with bolts, screws etc. to match existing including grinding and filling stiles and bottoms of sashes on steel windows and leave in free working down:				
24	Steel window frame and sash. (Window 4 and window 5)	No	2		
	Take down, reset, trim, and refix sheet iron framing to match existing as specified on architect's window shedule				
25	Steel window screen and frame. (Window No. 4 and Window No. 5)	No	2		
	Clean down and remove all rust, loose paint and sandpaper down to a bare surface including applying an approved primer coat over the bare surfaces, one undercoat and one coat high-gloss paint into all surfaces of steel windows including painting to architect's specification:				
26	Steel window and frame, size 1500 x 2200mm	No	5		
27	Steel window and frame, size 1022 x 1254mm	No	1		
28	Steel window and frame, size 1005 x 1540mm	No	1		
29	Steel window and frame, size 1000 x 1250mm	No	1		
30	Steel window and frame, size 1000 x 1420mm	No	3		
31	Steel window and frame, size 533 x 654mm	No	8		
32	Steel window and frame, size 1511 x 654mm	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	Clean down and remove all rust, loose paint and sandpaper down to a bare surface including applying an approved primer coat over the bare surfaces, one undercoat and one coat high-gloss paint to all surfaces of burglar proofing:				
33	Burglar proofing for timber window, size 1060x1870mm	No	3		
34	Burglar proofing for timber window, size 1005 x 1720mm	No	2		
35	Burglar proofing for timber window, size 1060 x 1870mm	No	2		
36	Burglar proofing for timber window and louvre, size 1255 x 2190mm	No	1		
37	Burglar proofing for steel window and screen (Window 4 and Window 5)	No	2		
38	Burglar proofing for steel window, size 1500 x 2200mm.	No	5		
39	Burglar proofing for steel window, size 1005 x 1540mm.	No	1		
40	Burglar proofing for steel window, size 1022 x 1254mm.	No	1		
41	Burglar proofing for steel window, size 1000 x 1250mm.	No	1		
42	Burglar proofing for steel window, size 1000 x 1420mm.	No	3		
43	Burglar proofing for steel window, size 533 x 654mm.	No	8		
44	Burglar proofing for steel window, size 1511 x 654mm.	No	1		
	Make good roofs, floors, panelling, ceilings, partitions, etc				
45	Allow for examination of existing corrugated iron roof for any leaks, including soldering to holes and repairing all leaks		Item		
46	Carefully strip off existing paint, including the removal of rust on existing roof to completely bare galvanised steel	m2	537		
47	Clean existing internal gutters	m	22		
	Carried Forward			R	

				R	
	Brought Forward				
	Take out and remove sundry joinery work:				
48	Window cills including cleaning down with approved detergent and paint one coat stoep paint or similar and equally approved paint:	m	31		
	Preparatory work to existing surfaces				
49	Make good to exposed wall surface where public barrier was moved	m2	1		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 1
Alterations

Item No			Quantity	Rate	Amount
	BILL NO. 2				
	CARPENTRY AND JOINERY				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	FITTINGS				
	General:				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with coutersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc				
	The type references given in the descriptions are to the respective types of fittings detailed on the Architect's drawings numbered 1308-016 annexed to these Bills of Quantities/accompanying these Bills of Quantities for tender purposes				
	Office cupboards, etc:				
1	Table type with cupboard, size 750x750mm	No	1		
2	Table type with cupboard, size 1500x750mm	No	1		
3	Table type, size 1500x750mm	No	1		
4	Table type with lecturn, size 1500x750mm	No	2		
	Staff tearoom cupboards				
5	Bottom Cupboards 1800x750mm	No	1		
6	Wall hung Cupboards 1800x750mm	No	1		
	Wooden Cladding on concrete bench				
7	30mm thick hard wood 3750mm x 520mm	No	1		
	Carried Forward			R	

	Brought Forward			R	
	Doors ETC				
	Double sided horizontal slatted solid meranti entrance typ hinges				
8	Door, 813x2032mm high	No	1		
	Framed, ledged and braced meranti exterior door with flusl				
9	Door, 813x2032mm	No	5		
	Semi-solid flush panel door (sapele veneer) with hardwood edges both sides				
10	Door,813X2032mm high	No	10		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 2
Carpentry and Joinery

Item No			Quantity	Rate	Amount
	BILL NO. 3				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	PARTITIONS, ETC				
	"GypRoc Drywall" partition systems				
1	Partitions 2100m high with bottom track plugged and top track fixed to suspended ceiling tees	m	3		
2	Extra over partition 2100m high for fair end	No	1		
	NAILED UP CEILINGS				
	6.4mm gypsum ceilings fixed to 50x38mm SA Pine brandering at 450 c/c maximum.Pattern when visible: arrange boards symmetrically about room, at right angles to brandering, with cut boards along walls. Nail boards to timber brandering with 38 mm hot dip galvanized clout nails or 32 x 2.5 mm diameter hot dip galvanized serrated ceiling nails at 150 mm centres maximum.				
3	Horizontal ceilings to timber trusses	m2	147		
	SUSPENDED CEILINGS				
	Carried Forward			R	

	Brought Forward			R	
	600x1200x12. 5mm thick gypsum vinyl clad (white) ceiling tiles. Tiles laid in t38 suspended tee grid system (white). Main tees at 1200mm centres with t38 (600) cross tees. Provide sm25 wall angles. The grid system suspended from timber trusses with 4mm rod suspension adjustment system. Hold down clips must be used to hold boards firmly in position				
4	Ceilings suspended not exceeding 500mm below concrete soffits	m2	230		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 3
Ceilings, Partitions and Access Flooring

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	IRONMONGERY				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	"EN-SUITE" LOCKS				
1	Three lever mortice lockset	No	3		
2	Two lever mortice lockset	No	3		
	BATHROOM FITTINGS				
3	19mm Diameter chromium plated towel rail 1000mm long including end brackets plugged	No	5		
4	Chromium plated toilet roll holder plugged	No	4		
5	Cottage single soap dish	No	4		
	SUNDRIES				
6	Door stop plugged	No	6		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 4
Ironmongery

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	METALWORK				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	ALUMINIUM WINDOWS, DOORS, ETC.				
	ALUMINIUM DOORS				
	Natural anodised aluminium door with flush meeting stiles 1.5 pairs aluminium sinkless hinges to suit door. Provide as per building regulations all to manufacturers detail and				
1	Aluminium door 950x2070mm high	No	2		
2	Aluminium door, 1150x2070mm high	No	1		
	ALUMINIUM FRAMES				
	Natural anodised aluminium door (as per Architect specific into glazed sections as shown. 1.5 pairs aluminium sinkles pull handles and Safety glazing as per building regulations				
3	Frame, size 1600mm x 2125mm	No	1		
4	Frame,size 1210mm x 2360mm	No	1		
5	Frame, size 1395 x 3000mm	No	1		
	ALUMINIUM WINDOWS				
	Natural anodised aluminium door (as per Architect specifi into glazed sections as shown. 1.5 pairs aluminium sinkle pull handles and Safety glazing as per building regulation specification.				
6	Window, 1795 x 1365mm	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
7	Install new public barrier as per drawing number 1308-010, including to aluminium doors with ironmongery complete.	No	1		
	HEAVY DUTY PRESSED STEEL DOOR FRAMES				
	1.2mm Double rebated "Durowin" or similar and equally approved frames suitable for one brick walls:				
8	Frame for door 813 x 2032mm high	No	4		
	1.2mm Double rebated "Durowin" or similar and equally approved frames suitable for half brick walls:				
9	Frame for door 813 x 2032mm high	No	2		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 5
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 6				
	PLUMBING AND DRAINAGE				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	RAINWATER DISPOSAL				
	Steel rainwater goods:				
1	125x100mm Square round eaves gutter fixed to falls on and including brackets spaced at 1000mm centres and screwed to fibre-cement fascia	m	76		
	Extra on steel gutters for the following fittings:				
2	Stopped end	No	6		
3	Gutter union clip	No	6		
4	Outlet with nozzle piece for and joint to 100x75mm rainwater pipe	No	6		
5	100x75mm Pipe fixed to wall	m	28		
	Extra on galvanised piping for the following fittings:				
6	100x75mm Bend	No	6		
7	100x75mm Shoe	No	6		
8	100x75mm Swanneck 600mm projection	No	6		
	SANITARY FITTINGS				
	Supply, fix, clean, wash and leave in a satisfactory condition the following items of medical sanitaryware:				
	All rails, brackets, etc., where not bolted are to be fixed with long heavy gauge brass screws into approved expanding plugs				
	Carried Forward			R	

	Brought Forward			R	
9	'Citimetal' double centre bowl inset sink and drainer formed of AISI grade 304 stainless steel size overall 1800 x 457mm fitted to top of kitchen cabinet (elsewhere measured), the whole sound deadened on underside by the application of an approved sound deadening coating and the bowls fitted with built-in integral overflow outlet and grating.	No	1		
10	Vaal lavetera urinal (Product Code CLVURJUR-2CO0413 flush effectively on 6 litres.)	No	1		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 6
Plumbing & Drainage

Item No			Quantity	Rate	Amount
	BILL NO. 7				
	GLAZING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	GLAZING TO STEEL WITH PUTTY				
	4mm Clear float glass				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing	m2	1		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 7
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 8				
	PAINTWORK				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the back of these Bills of Quantities				
	PAINT ON EXISTING SURFACES, ETC				
	Apply: two coats of galvanised iron primer and two coats roofgaurd paint (to be applied after 48 hours). :				
1	Roofs	m2	537		
	Apply: One coat Plaster Primer and two full coats Pure Acrylic PVA Paint as per the Architect specification. :				
2	Plastered walls internally	m2	1 170		
	Primer : One coat Primer. Topcoats : Two full coats external quality PVA paint.				
3	Plastered externally	m2	370		
4	Fibre cement fascia and barge boards	m	350		
	Apply: one coat bonding liquid or other approved first coating and two coats of paint. Colour to architects specification and colour scheme				
5	Existing Ceilings	m2	119		
6	Cornices	m	126		
	Apply two coats of emulsion paint , colour to architects specifications				
7	Concrete ceilings	m2	20		
	PAINT ON WOOD				
	Carried Forward			R	

	Brought Forward			R	
	Apply three coats of penetrating wood treatment on all woodwork. Thin the first coat 50% with Mineral Turpentine to aid penetration on wood. Thin second coat 10% followed by the final coat un-thinned. Allow 48 hours (2 days) drying time between coats. Colour to architects specification and colour scheme				
8	Doors	m2	174		
9	Frames	m2	83		
10	On Skirting	m	249		
	PAINT ON METAL				
	Paint one primer coat and one undercoat and one coat high gloss enamel paint to metalwork.				
11	Strong room steel doors	m2	4		
12	Burglars	m2	9		
13	Window Burglars	m2	14		
14	Eaves gutters	m2	8		
15	Rainwater downpipes	m2	5		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 8
Paintwork

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	EXTERNAL WORKS, ETC.				
	DEMOLITION AND REMOVAL				
	PAVINGS, ETC				
	Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing				
	80mm Coloured Double Zig Zag interlocking roadstone paving				
1	Paving to parking areas etc to falls	m2	60		
2	Kerb (SABS 927 fig) 300 x 150mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	150		
	EXTERNAL BALUSTRATES				
	Galvanised steel balustrates				
3	Clean the balustrades and paint as per Architect instruction	m2	58		
	WATER SUPPLY, SEWER AND STORM WATER, ETC				
4	Supply a 15 kl water storage tank, including pumping system and all accessories as per Engineers specifications	No	1		
5	Cut 400x400mm in to existing concrete to construct a new water line, 90mmØ (uPVC CLASS 9) sleeve and fill new trench with 20Mpa concrete	m	121		
6	50mmØ (uPVC CLASS 12) water line placed in sleeve in a new concrete encased trench	m	121		
7	Empty, clean and repair septic tank	No	1		
	Carried Forward			R	

	Brought Forward			R	
	CAST IRON MANHOLE COVERS				
8	Man hole covers	No	6		
	Carried Forward to Summary of Section No. 2			R	

Section No. 2
Office Complex
Bill No. 9
External Works

Section No. 2

Office Complex

SECTION SUMMARY - Office Complex

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Carried to Final Summary R

Section No. 2
Office Complex

Item No			Quantity	Rate	Amount
	SECTION NO. 3				
	BILL NO. 1				
	ALTERATIONS				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	DROSDY ALTERATIONS				
	REMOVAL OF EXISTING WORK				
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
1	Gypsum plasterboard ceilings, including cornices, timber brandering, etc	m2	191		
2	Cornices	m	249		
	Taking out and removing sundry joinery work, fittings, etc				
3	Timber skirtings	m	249		
4	Fibre cement fascia and barge boards	m	133		
5	Allow for the removal of existing timber bedroom cupboards and all timber shelving		Item		
6	Allow for the removal of existing timber bathroom cupboards		Item		
	Repair plaster to walls				
7	Internal plaster from walls and columns	m2	746		
8	External plaster from walls and columns	m2	256		
	Carried Forward			R	

				R	
	Brought Forward				
	Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc				
9	Tiles to floors	m2	119		
10	Tiles to walls	m2	125		
11	Terrazo tiles to floors	m2	20		
	Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
12	Stainless steel sink and drainer including timber cupboard 6000 x 700 x 900mm high	No	1		
13	Vitreous china wash hand basin	No	2		
14	Vitreous china WC pan and cistern	No	2		
15	Vitreous china soap dish	No	6		
16	Vitreous china toilet roll holders	No	2		
17	Stainless steel towel rails	No	3		
	Make good roofs, floors, panelling, ceilings, partitions, etc				
18	Allow for examination of existing corrugated iron roof for any leaks, including soldering to holes and repairing all leaks		Item		
19	Allow for the removal of existing paint coating on exposed external timber to bare surface.		Item		
20	Carefully strip off existing paint, including the removal of rust on existing roof to completely bare galvanised steel	m2	227		
21	Clean existing internal gutters	m	12		
	Carried Forward			R	

				R	
	Brought Forward				
	Remove existing paint to door frames coating back to bare surface				
22	Wooden Door Frame 1730mm x 2475mm	No	1		
23	Steel Door Frames	No	15		
	Clean Exsisting Galvanised Framework				
24	Door No G1	No	1		
25	Door No G2	No	1		
26	Door No G3	No	1		
	Taking out/off and removing glass and mirrors				
27	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	21		
	Ironmongery sundries				
28	Remove broken or defective door frame hinges and striker plates	No	15		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 1
Alterations

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	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)			
	Carried Forward		R	

	Brought Forward			R	
	Formwork				
	Descriptions 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				
	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				
	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	REINFORCED CONCRETE				
	Concrete 25 MPa/19mm stone in:				
1	Thickenings	m3	3		
	CONCRETE TESTING				
2	Allow for making set of three concrete test cubes, sending to an approved testing authority for testing and paying all charges in connection therewith (Provisional)	No	10		
	FINISH TOP OF CONCRETE				
	Finish top of concrete smooth with a power float:				
3	Thicknings	m2	3		
	MOVEMENT JOINTS, ETC.				
	Carried Forward			R	

	Brought Forward			R	
	Expansion joints with 10mm "Sondor Jointex" closed cell expanded polyethylene preformed joint filler and hinged blocking piece:				
4	Joints not exceeding 300mm high or wide between concrete and brick or block walls	m	1		
	REINFORCEMENT				
	Fabric reinforcement:				
5	Type 193 fabric reinforcement in concrete surface beds, ramps, slabs, etc.	m2	3		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 2
Concrete, Formwork & Reinforcement

Item No			Quantity	Rate	Amount
	BILL NO. 3				
	MASONRY				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the back of these Bills of Quantities				
	BRICKWORK IN SUPERSTRUCTURE				
	Blockwork in concrete blocks in Class I mortar:				
1	230mm Thick walls in beam filling	m2	77		
	BRICKWORK SUNDRIES				
	Blockwork reinforcement:				
2	155mm Wide reinforcement built in horizontally	m	86		
	PAVING				
	Paving of 600 x 600mm terrazzo tiles fixed in full accordance with manufacturers instruction:				
3	On Floors and landings.	m2	27		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	DAMP PROOFING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	One layer 250 micron "Gunplas USB Green" polyethylene waterproofing:				
1	On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net).	m2	191		
	JOINT SEALANTS, ETC				
	"Pro-Struct 749" polysulphide joint sealant including backing cord, bond breaker, "Pro-Struct 626" epoxy primer, etc:				
2	10 x 10mm In expansion joints including raking out expansion joint filler as necessary	m	64		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Drosdy Bill No. 4 Waterproofing				

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	CARPENTRY AND JOINERY				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	FLUSH DOORS				
	Medium duty semi solid timber door hang to steel frame:				
1	813x2032x44mm high	No	15		
	EXTERIOR QUALITY FRAMED DOORS, ETC				
	Solid flush doors with 3.2mm standard horizontal solid meranti hardwood door:				
2	40mm Framed solid meranti single door 813 x 2032mm high divided into eight panels and formed of 106mm stiles, top and middle rail and 220mm bottom rail (D10)	No	2		
	EAVES, VERGES, ETC				
	Fibre cement				
3	Fascia and barge boards	m	134		
	CUPBOARDS TO KITCHENS, ETC				
	34mm thick Formica worktop (Natural Oak) softline profile 90, 16mm thick two face white melamine particle board carcass and doors, with edge strips on all sides of white particle board, solid oak "D" handles, cabx slide on hinges with mounting plates and heavy duty ball bearing drawer runners.				
4	Size 450mm Drawer Unit - DU450	No	2		
5	Size 600mm Base Unit - BU600	No	3		
6	Size 900mm Base Unit - BU900	No	2		
7	Size 1800mm Drawer Unit - BU1800	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
8	Size 900mm Corner Base Unit - CBU900	No	2		
9	Size 600mm Comer Base Unit - CBU600	No	2		
10	Size 600mm Broom Cupboard - BC600	No	1		
11	Size 450mm Wall Unit - WU450	No	2		
12	Size 600mm Wall Unit - WU600	No	1		
13	Size 900mm Wall Unit - WU900	No	1		
14	Size 760mm Wall Flip Top - WFT	No	2		
15	Size 600mm Corner Wall Unit - CWU	No	1		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 5
Carpentry & Joinery

Item No			Quantity	Rate	Amount
	BILL NO. 6				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	PARTITIONS, ETC				
	NAILED-UP CEILINGS				
	6.4mm Gypsum board ceilings fixed to 50x38 SSAP brandering 450 centres maximum				
1	Ceilings	m2	130		
	Standard gypsum cornices				
2	Standard gypsum cornices	m	77		
	4mm fibre-cement board ceilings fixed to 50x38 SSAP brandering 450 centres maximum				
3	Ceilings	m2	34		
4	Standard fibre-cement cornices	m	25		
	Insulation				
5	135 mm thick resin bonded glass fibre	m2	164		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Drosdy Bill No. 6 Ceilings, Partitions & Access Flooring				

Item No			Quantity	Rate	Amount
	BILL NO. 7				
	IRONMONGERY				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	"EN-SUITE" LOCKS				
1	Three lever mortice lockset	No	2		
2	Two lever mortice lockset	No	15		
	PELMETS AND CURTAIN TRACKS				
3	Anodised aluminium double curtain track including eleven single wheeled carriers per metre, brackets, stopped ends, bends, etc., with brackets plugged	m	29		
	BATHROOM FITTINGS				
4	19mm Diameter chromium plated towel rail 1000mm long including end brackets plugged	No	3		
5	Chromium plated toilet roll holder plugged	No	2		
6	Cottage single soap dish	No	6		
	SUNDRIES				
7	Door stop plugged	No	17		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Drosdy Bill No. 7 Ironmongery				

Item No			Quantity	Rate	Amount
	BILL NO. 8				
	METALWORK				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	HEAVY DUTY PRESSED STEEL DOOR FRAMES				
	1.2mm Double rebated "Durowin" or similar and equally approved frames suitable for one brick walls:				
1	Frame for door 813 x 2032mm high	No	1		
	1.2mm Double rebated "Durowin" or similar and equally approved frames suitable for half brick walls:				
2	Frame for door 813 x 2032mm high	No	1		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 8
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	PLASTERING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	SCREEDS				
	Screeds (1:3) as described on concrete:				
1	25mm Thick on floors and landings	m2	15		
	INTERNAL PLASTER				
	One coat cement plaster (1:5) as described in brickwork on:				
2	Walls	m2	10		
3	Narrow widths	m2	10		
	EXTERNAL PLASTER				
	One coat cement plaster (1:4) as described in brickwork on:				
4	Walls	m2	7		
5	Narrow widths	m2	3		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 9
Plastering

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	TILING				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	GLAZED CERAMIC WALL TILING				
	150mm x 150mm patterned ceramic tiles to wood floated plaster with aluminium trim to detail.				
1	Walls	m2	125		
2	Narrow widths	m2	4		
	FLOOR TILES				
	300 x 300mm Ceramic floor tiles fixed with adhesive in full accordance with manufacturers instruction:				
3	On Floors and landings.	m2	119		
4	Narrow widths	m2	3		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Drosdy Bill No. 10 Tiling				

Item No			Quantity	Rate	Amount
	BILL NO. 11				
	PLUMBING AND DRAINAGE				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	RAINWATER DISPOSAL				
	Steel rainwater goods:				
1	125x100mm Square round eaves gutter fixed to falls on and including brackets spaced at 1000mm centres and screwed to fibre-cement fascia	m	77		
	Extra on steel gutters for the following fittings:				
2	Stopped end	No	10		
3	Gutter union clip	No	13		
4	Outlet with nozzle piece for and joint to 100x75mm rainwater pipe	No	10		
5	100x75mm Pipe fixed to wall	m	35		
	Extra on galvanised piping for the following fittings:				
6	100x75mm Bend	No	10		
7	100x75mm Shoe	No	10		
8	100x75mm Swanneck 600mm projection	No	10		
	SANITARY FITTINGS				
	Supply, fix, clean, wash and leave in a satisfactory condition the following items of medical sanitaryware:				
	All rails, brackets, etc., where not bolted are to be fixed with long heavy gauge brass screws into approved expanding plugs				
9	"Consul" vanity basin (580 x 485mm) with single taphole	No	2		
	Carried Forward			R	

	Brought Forward			R	
10	'Citimetal' double centre bowl inset sink and drainer formed of AISI grade 304 stainless steel size overall 1800 x 457mm fitted to top of kitchen cabinet (elsewhere measured), the whole sound deadened on underside by the application of an approved sound deadening coating and the bowls fitted with built-in integral overflow outlet and grating.	No	1		
11	"Showerline silhouettes L - shaped glass including sliding door to both right and left size 900 x 900 x 1900mm high including frame and plugging to wall.	No	2		
12	"Ceramic (fibreglass) shower base size 900 x900mm wide plugged to floor and corner wall.	No	2		
13	Vaal Sanitaryware vitreous china "Daisy" semi-close coupled90° outlet open rim wash-down pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow. The suite is designed to flush effectively on 6 litres.	No	1		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 11
Plumbing & Drainage

Item No			Quantity	Rate	Amount
	BILL NO. 12				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	GLAZING TO STEEL WITH PUTTY				
	4mm Clear float glass				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing	m2	21		
	MIRRORS				
2	6 mm Float glass multiple silvered mirror size 300 x 450 mm with polished and bevelled edges, holed and screwed with four chromium plated dome headed screws with rubber spacer washers behind, to and including hardwood plugs in wall.	No	3		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 12
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	PAINTWORK				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the back of these Bills of Quantities				
	PAINT ON EXISTING SURFACES, ETC				
	Apply: two coats of galvanised iron primer and two coats roof-guard paint (to be applied after 48 hours).				
1	Roofs	m2	227		
	Apply: One coatPlaster Primer and two full coats Pure Acrylic PVA Paint as per Architect specifications:				
2	Plastered walls internally	m2	746		
	Primer : One coat Primer. Topcoats : Two full coats external quality PVA paint as per the Architect specifications.				
3	Plastered externally	m2	256		
4	Fibre cement fascia and barge boards	m	133		
5	Fibre-cement ceilings and cornices	m2	164		
	PAINT ON WOOD				
	Apply three coats of penetrating wood treatment on all woodwork. Thin the first coat 50% with Mineral Turpentine to aid penetration on wood. Thin second coat 10% followed by the final coat un-thinned. Allow 48 hours (2 days) drying time between coats. Colour to architects specification and colour scheme				
6	Doors	m2	27		
7	Frames	m2	9		
8	On Skirting	m	243		
	Carried Forward			R	

	Brought Forward			R	
	PAINT ON METAL				
	Paint one primer coat and one undercoat and one coat high gloss enamel paint as per architect specifications to metalwork.				
9	Frames	m2	12		
10	Windows and Burglar bars	m2	13		
11	Eaves gutters	m2	12		
12	Rainwater downpipes	m2	8		
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 13
Paintwork

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	EXTERNAL WORKS, ETC.				
	The Tenderer is referred to the relevant clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	DEMOLITIONS AND REMOVAL				
1	6130 X6130mm Concrete Dam with 2000mm high walls including filling hole		Item		
	WATER SUPPLY, SEWER AND STORM WATER, ETC				
2	Empty, clean and repair septic tank	No	1		
	CAST IRON MANHOLE COVERS				
3	Man hole covers	No	6		
	GATES, ETC				
4	Gate size 2900 x 1350 high, made of 16mm round bar to be welded onto 50x50x5mm angle iron as shown. Angle iron to be 100% level and should not sag at any given point. Angle iron to be anchored into 30mpa concrete as shown. Including all fixing details, complete	No	1		
5	Pedestrian gate size 1200 x 1350 high as per drawing number 1308-018, including all exactions concrete, etc	No	1		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Drosdy Bill No. 14 External Works				

Item No		Quantity	Rate	Amount
	BILL NO. 16			
	PROVISIONAL SUMS			
	PREAMBLES			
	For preambles see " Specification of materials and methods to be used - PW 371"			
	SUPPLEMENTARY PREAMBLES			
	Cash discount			
	No cash discount. All provisional sums are "NET"			
	Profit			
	Provisional sums are net and do not include builder's discount. The Contractor may allow next to "Profit" items for any profit he might consider necessary			
	Attendance			
	It will be expected from the Contractor to render all general attendance and, if specifically so described, special attendance services to each relevant Specialist, all in accordance with the Clauses set out in the "Preliminaries" section			
	The item "Attendance" which follows each of the provisional sums for nominated and/or selected sub-contractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the Nominated and/or Selected Sub-contractors, the following:			
	1 The services as set out in the clauses in the "Preliminaries" section			
	2 Making good in all trades and cleaning down and removal of rubbish on completion			
	The Contractor may allow next to "Attendance" items for the recovery of such costs he might consider necessary			
	Carried Forward		R	

			R	
	Brought Forward			
	Also refer to the Clauses in the "Preliminaries" section for the definitions and adjustment of "Attendance" and "Special Attendance" respectively			
	All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable			
1	Provide the amount of R150,000.00 (Hundred and fifty thousand rand) for repairs to cupboards	Item		150 000.00
2	Allow for profit	Item		
3	Allow for attendance	Item		
4	Provide the amount of R120,000.00 (Hundred and twenty thousand rand) for signage	Item		120 000.00
5	Allow for profit	Item		
6	Allow for attendance	Item		
7	Provide the amount of R40,000.00 (Forty thousand rand) for valves, etc.	Item		40 000.00
8	Allow for profit	Item		
9	Allow for attendance	Item		
10	Provide the amount of R100,000.00 (Hundred thousand rand) for decanting, etc.	Item		100 000.00
11	Allow for profit	Item		
12	Allow for attendance	Item		
13	Provide the amount of R250,000.00 (Two hundred and fifty thousand rand) for Health and Safety (H&S), etc.	Item		250 000.00
14	Allow for profit	Item		
15	Allow for attendance	Item		
16	Provide the amount of R280,000.00 (Two hundred and eighty thousand rand) for temporary accommodation, etc.	Item		280 000.00
	Carried Forward		R	

Section No. 3
Drosdy
Bill No. 15
Provisional Sums

	Brought Forward			R	
17	Allow for profit	Item			
18	Allow for profit	Item			
	Carried Forward to Summary of Section No. 3			R	

Section No. 3
Drosdy
Bill No. 15
Provisional Sums

Section No. 3

Drosdy

SECTION SUMMARY - Drosdy

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	Carried to Final Summary		R

Section No. 3
Drosdy

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
	Bill No. 1				
	SITE RETICULATION & GENERAL INSTALLATIONS				
	DISTRIBUTION BOARDS				
	Supply and Installation of distribution boards as per attached				
	drawing and specifications with labels, legends, danger warning				
	signs,and green locks with master keys.				
1	DB-M (Flush mounted) in magistrates residence	No	1		
2	DB-G (Flush mounted) in magistrates residence	No	1		
	LV DISTRIBUTION CABLES				
	Supply and installation of 600/1000V PVC/SWA/PVC/PVC				
	copper cables installed in ground, ducts, cable trays, and ceiling				
	voids				
3	16mm² x 4 core copper cable	m	82		
4	10mm² bare copper earth wire (BCEW)	m	82		
	CABLE TERMINATIONS				
	Supply and installation of 600/1000V PVC/SWA/PVC/PVC copper				
	cable terminations complete with lugs and earthings as required				
	and specified				
	Carried Forward			R	

				R	
	Brought Forward				
5	16mm² x 4 core copper cable	No	4		
6	10mm² bare copper earth wire (BCEW)	No	4		
	DIESEL GENERATOR				
	Supply, delivery, installation, testing and comissioning of a				
	42kVA standby diesel generator set, complete with an on board				
	diesel tank able to run generator set for 8 hours at full load,and				
	generator control panel. The generator engine must be from a				
	reputable supplier. The generator set shall be fitted with an				
7	electric pump to transfer fuel from the mobile refuel bulk tank		Item		
8	Supply, delivery, installation, testing and comissioning of a 42kVA automatic change over switch inside generator canopy.	No	1		
9	Supply and install a sound attenuated, weather proof, outdoor generator canopy to house the above mentioned generator.	No	1		
	Supply and install a concrete plinth for the generator as per				
	manufactures recomendations on positions indicated on the				
10	drawings	No	1		
11	Supply operating & maintenance manuals, test & commissioning results and as built drawings for the generator set.	No	3		
12	Supply and Install full tank of diesel after commsioning			SUM	
13	Supply maintenance and warranty for 12 months			SUM	
	Carried Forward			R	

Section No. 4
Electrical Works
Bill No. 1
Site Reticulation and General installations

				R	
	Brought Forward				
	MANHOLES AND CABLE SLEEVES				
	Supply and install cable sleeves and manholes as indicated on drawings				
14	110mmØ KabelFlex HDPE sleeves.	m	10		
15	50mmØ KabelFlex HDPE sleeves.	m	1		
16	110mmØ KabelFlex HDPE slow bend	No	1		
17	50mmØ KabelFlex HDPE slow bend	No	1		
	TRENCHING AND BACK FILLING				
	All prices below includes the excavation of trenches and holes, separating of stones and soil, rocks etc, levelling of trench beds, refill compacting and reparation of all surfaces to the original finish (600mm deep x 300mm wide)				
18	Excavating in Earth	m3	5		
19	Excavating in Soft Rock	m3	1		
20	Excavating in Hard Rock	m3	1		
	CABLE MARKERS AND DANGER WARNING TAPE				
	Supply and installation of cable markers and danger warning tape as specified				
21	Low voltage concrete cable route markers	No	1		
22	Low voltage danger warning tape	m	10		
	ALTERATIONS TO EXISTING DBs				
	Supply and install the following switch gear and equipment in existing DBs				
23	10A Single Pole Circuit Breaker (5kA)	No	6		
24	20A Single Pole Circuit Breaker (5kA)	No	10		
	Carried Forward			R	

Section No. 4
Electrical Works
Bill No. 1
Site Reticulation and General installations

	Brought Forward			R	
25	6A Single Pole Circuit Breaker (5kA)	No	1		
26	63A Earth leakage (L+N) (5kA)	No	2		
27	63A Single Pole Circuit Breaker (5kA)	No	1		
28	DB Blank Covers			SUM	
29	DB Danger Warning Signs	No	2		
30	Surge Pretection Device (3P+N)	No	2		
	TESTING AND COMISSIONING				
	Testing and commissioning of the entire low voltage network				
31	Area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation.	No	2		
32	Provide as built drawings for the whole electrical installation	No	3		
	Carried Forward to Summary of Section No. 4			R	

Section No. 4
Electrical Works
Bill No. 1
Site Reticulation and General installations

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
	Bill No. 2				
	LIGHTNING AND POWER INSTALLATIONS				
	CONDUITS AND ACCESSORIES				
	Supply and install new PVC conduit chased in walls,				
	installed into ceiling voids, cast into concrete as specified				
	complete with accessories.				
1	20mm diameter PVC conduits complete with accessories	m	350		
2	25mm diameter PVC conduits complete with accessories	m	750		
	CONDUCTORS				
	Supply and installation of the following PVC				
	insulated conductors with colours as specified, into				
	trunking and conduit including terminations on both				
	ends, to specification				
3	2,5mm²	m	700		
4	4mm²	m	1 500		
5	2,5mm² bare copper earth wire	m	2 200		
	LIGHT SWITCHES				
	Supply and install the following flush mounted light switches				
	complete with wall boxes as specified and indicated on				
	drawings				
	Carried Forward			R	

				R	
	Brought Forward				
6	1 Lever, 1 Way Light Switch	No	4		
7	1 Lever, 2 Way Light Switch	No	1		
8	Photocell, 10A, 240V.	No	4		
9	Dual technology occupancy sensor, 10A, 240V, 50Hz.	No	26		
	POWER SKIRTING				
	Supply and install the following wire ways complete with mounting accessories, tees, bends, end caps etc				
	2 cover, three compartment, galvanised steel, powder coated power skirting with mounting accessories, end caps, elbows, etc. Color: White				
	SOCKET OUTLETS AND ISOLATORS				
	Supply and install the following socket outlets and isolators as specified and as indicated on drawings.				
10	Combination switched socket with 1 normal 16A outlet + 1 Euro 3 pin socket outlets	No	3		
11	Double, normal, switched socket outlet wall mounted	No	4		
12	Dedicated 16A red single switched socket outlet mounted on power skirting	No	21		
13	60A double pole isolator in wether proof box	No	1		
14	Normal 16A,white single switched socket outlet mounted on power skirting	No	21		
15	3 Pin Euro mounted on power skirting	No	46		
	DATA AND TELEPHONE				
	Supply and installtion of data and telephone points on power skirting or wall mounted as specified and as indicated on				
	Carried Forward			R	

				R	
	Brought Forward				
	drawings				
16	RJ45 Data points	No	21		
17	RJ45 Telephone points	No	17		
	LIGHTING INSTALLATION				
	Supply and installation of the following light fittings, complete				
	with lamps and electronic control gear, mounting accessories				
	as specified and as indicated on attached drawings.				
18	70W LED panel recessed light fitting -TYPE A	No	38		
19	18W LED decorative down light fitting - TYPE B	No	18		
20	17W LED decorative, round bulkhead light fitting- TYPE C	No	8		
21	10W LED decorative down light fitting - TYPE D	No	6		
22	36W LED batten light fitting - TYPE E	No	7		
23	9W LED light fitting with red diffuser wall mounted- TYPE R	No	2		
24	100W LED highbay light fitting with aluminum dome c/w suspending chain -TYPE HB	No	6		
25	50W LED wall mounted flood light, IP65 -Type W	No	15		
26	56W LED vandal resistant light fitting -Type V (to replace existing lights in cells)	No	4		
27	70W LED panel surface mounted light fitting -TYPE AS	No	7		
	Carried Forward to Summary of Section No. 4			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
	Bill No 3				
	LIGHTNING AND POWER INSTALLATIONS				
	CONDUITS AND ACCESSORIES				
	Supply and install new PVC conduit chased in walls,				
	installed into ceiling voids, cast into concrete as specified				
	complete with accessories.				
1	20mm diameter PVC conduits complete with accessories	m	350		
2	25mm diameter PVC conduits complete with accessories	m	750		
	CONDUCTORS				
	Supply and installation of the following PVC insulated conductors with colours as specified, into trunking and conduit including terminations on both ends, to specification				
3	2,5mm²	m	300		
4	4mm²	m	250		
5	2,5mm² bare copper earth wire	m	550		
6	10mm²	m	50		
7	6mm² bare copper earth wire	m	25		
	LIGHT SWITCHES				
	Supply and install the following flush mounted light switches				
	complete with wall boxes as specified and indicated on				
	Carried Forward			R	

				R	
	Brought Forward				
	drawings				
8	1 Lever, 1 Way Light Switch	No	15		
9	1 Lever, 2 Way Light Switch	No	2		
10	Photocell, 10A, 240V.	No	2		
11	Dual technology occupancy sensor, 10A, 240V, 50Hz.	No	1		
	POWER SKIRTING				
	Supply and install the following wire ways complete with mounting accessories, tees, bends, end caps etc 2 cover, three compartment, galvanised steel, powder coated power skirting with mounting accessories, end caps, elbows, etc. Color: White				
	SOCKET OUTLETS AND ISOLATORS				
	Supply and install the following socket outlets and isolators as specified and as indicated on drawings.				
	as specified and as indicated on drawings.				
12	Combination switched socket with 1 normal 16A **outlet + 1 Euro 3 pin socket outlets**	No	19		
13	Double, normal, switched socket outlet wall mounted	No	5		
14	Dedicated 16A red single switched socket outlet mounted on power skirting	No	1		**Rate Only**
15	60A double pole isolator in wether proof box	No	1		
16	Normal 16A,white single switched socket outlet mounted on **power skirting**	No	1		**Rate Only**
17	3 Pin Euro mounted on power skirting	No	1		**Rate Only**
	Carried Forward			R	

	Brought Forward			R	
	DATA AND TELEPHONE				
	Supply and installation of data and telephone points on power skirting or wall mounted as specified and as indicated on drawings				
18	RJ45 Data points	No	1		**Rate Only**
19	RJ45 Telephone points	No	1		**Rate Only**
	LIGHTING INSTALLATION				
	Supply and installation of the following light fittings, complete with lamps and electronic control gear, mounting accessories as specified and as indicated on attached drawings.				
20	1x E27 decorative bulkhead light fitting with 13W LED Lamp- TYPE F	No	8		
21	Decorative ceiling light fitting, 2xE27- TYPE G complete with 2x15W LED lamps	No	9		
22	Decorative bathroom light fitting, 1xE27- TYPE H complete with 1x9W LED lamps	No	5		
	Carried Forward to Summary of Section No. 4			R	

Section No. 4
Electrical Works
Bill No. 3
Lightning & Power Installation: Drosdy

Section No. 4

Electrical Works

SECTION SUMMARY - Electrical Works

Bill No		Page No		Amount
1	Site Reticulation and General installations	84		
2	Lightning & Power Installation: Office Complex	87		
3	Lightning & Power Installation: Drosdy	90		
	Carried to Final Summary		R	

Section No. 4
Electrical Works

FINAL SUMMARY

Section No		Page No		Amount
1	Preliminaries	32		
2	Office Complex	55		
3	Drosdy	80		
4	Electrical Works	91		
	Sub Total		R	
	Add 15% value added tax to be remitted to South African Revenue Services		R	
	Total		R	
	Carried to Form of Tender		R	

Department
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

PG-03.2 (EC) SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

Project title:	HANOVER MAGISTRATE'S OFFICE HERITAGE - REPAIRS AND RENOVATIONS				
Tender no:	KIM06/2024	**WCS no:**	*055335*	**Reference no:**	19/2/4/2/2/2374/10

C4 Site Information

Construction will take place in an existing building, and which designated as a heritage building. Bidders to be aware that the site will be on use during construction and contractors to plan accordingly to minimise Construction work impacts on the court operations.

PG-03.2 (EC) Site Information – JBCC
JBCC 2000 (Edition 4.1 of March 2005)

Address of drosdy
Burger St, Hanover, 7005
Coordinates: -31.065211562914513, 24.44430714651782

Address of the magistrate court
Magisterial Court Hanover NC, 1 Church St, Hanover, 7005
Co-ordinates: -31.06656309798373, 24.442579036203323


Burger St, Hanover, 7005
Magisterial Court Hanover NC, 1 Church
Add destination
Leave now
Options
Send directions to your phone
via De Villies St, Christoffel St and New St
1 min
300 m
Fastest route now due to traffic conditions
Details
via Grace St and New St
1 min
300 m
via Burger St and Darling St
2 min
Gas
EV charging
Hotels
More
Sign in
2 min
400 m
1 min
1 min
Burger St
Burger Street
Grace St
Christoffel St
Darling St
New St
Magisterial Court Hanover NC
Church St
Google

ADDITIONAL SPECIFICATION

SL EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)

CONTENTS

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SL 02 TERMINOLOGY AND DEFINITIONS
SL 03 APPLICABLE LABOUR LAWS
SL 04 EXTRACTS FROM MINISTERIAL DETERMINATION REGARDING SPWP
SL 05 EMPLOYER'S RESPONSIBILITIES
SL 06 PLACEMENT OF RECRUITED YOUTH WORKERS
SL 07 TRAINING OF YOUTH WORKERS
SL 08 BENEFICIARY (YOUTH WORKERS) SELECTION CRITERIA
SL 09 CONTRACTUAL OBLIGATIONS IN RELATION TO YOUTH LABOUR
SL 10 PROVINCIAL RATES OF PAY
SL 11 MEASUREMENTS AND PAYMENT
EXAMPLE EPWP-NYS EMPLOYMENT AGREEMENT

SL 01 SCOPE

This project is part of the Expanded Public Works Programme and the National Youth Service Programme and aims to train young people and provide them with practical work experience as part of this programme. Youth aged between 18 and 35 will be recruited and trained in skills relevant to the work to be done on this project. These youth will have to be employed by the contractor as part of this project so that they can gain their work experience on these projects. The training of the youth will be coordinated and implemented by a separate service provider. This service provider will provide the contractor with a list of all the youth and the training each of these youth have received. The Contractor will be required to employ all of these youth for a minimum period of 6 months. Furthermore the Contractor will be required to supervise these youth to ensure that the work they perform is of the required standard. If necessary the contractor's staff will be required to assist and mentor the youth to ensure that they are able to perform the type of work they need to do to the satisfactory standards required. The contractor will not be required to employ all youth in the programme at the same time if not feasible, but may rotate the youth on the project, as long as all youth are employed for the minimum duration stated earlier.

This specification contains the standard terms and conditions for workers employed in elementary occupations and trained on a Special Public Works Programme (SPWP) for the National Youth Services Programme. These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.

SL 02 TERMINOLOGY AND DEFINITIONS

SL 02.01 TERMINOLOGY

(a)	SPWP	The Code of Good Practice for Special Public Works Programmes, which has been gazetted by the Department of Labour, and which provides for special conditions of employment for these EPWP projects. In terms of the Code of Good Practice, the workers on these projects are entitled to formal training, which will be provided by training providers appointed (and funded) by the Department of Labour. For projects of up to six months in duration, this training will cover life-skills and information about other education, training and employment opportunities.
(b)	EPWP	Expanded Public Works Programme, a National Programme of the government of South Africa, approved by Cabinet.
(c)	DOL	Department of Labour.

SL 02.02 DEFINITIONS

(a)	"employer"	means the contractor or any party employing the worker / beneficiary under the EPWP – NYS Programme.
(b)	"client"	means the Department of Public Works.
(c)	" worker / trainee"	means any person working or training in an elementary occupation on a SPWP.

SL 03 APPLICABLE LABOUR LAWS

In line with the Expanded Public Works Programme (EPWP) policies, the Ministerial Determination, Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of labour in government Notice No. R63 of 25 January 2002, of which extracts have been reproduced below in clauses

SL 04, shall apply to works described in the scope of work and which are undertaken by unskilled or semi-skilled workers.

The Code of Good Practise for Employment and Conditions of Work for Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No. R64 of 25 January 2002 shall apply to works described in the scope of work and which unskilled or semi-skilled workers undertake.

SL 04 EXTRACTS FROM MINISTERIAL DETERMINATION REGARDING SPWP

SL 04.01 DEFINITIONS

In this specification –

(a) "department" means any department of the State, implementing agent or contractor;

(b) "employer" means any department that hires workers to work in elementary occupations on a SPWP;

(c) "worker" means any person working in an elementary occupation on a SPWP;

(d) "elementary occupation" means any occupation involving unskilled or semi-skilled work;

(e) "management" means any person employed by a department or implementing agency to administer or execute a SPWP;

(f) "task" means a fixed quantity of work;

(g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;

(h) "task-rated worker" means a worker paid on the basis of the number of tasks completed;

(i) "time-rated worker" means a worker paid on the basis of the length of time worked

(j) "Service Provider" means the consultant appointed by Department to coordinate and arrange the employment and training of labour on EPWP infrastructure projects.

SL 04.02 TERMS OF WORK

(a) Workers on a SPWP are employed on a temporary basis.

(b) A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.

(c) Employment on a SPWP does not qualify as employment and a worker so employed does not have to register as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

SL 04.03 NORMAL HOURS OF WORK

(a) An employer may not set tasks or hours of work that require a worker to work–

(i) more than forty hours in any week

(ii) on more than five days in any week; and

(iii) for more than eight hours on any day.

(b) An employer and a worker may agree that the worker will work four days per week. The worker may then work up to ten hours per day.

(c) A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks (based on a 40-hour week) allocated to him.

Every work is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

SL 04.04 MEAL BREAKS

(a) A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.

(b) An employer and worker may agree on longer meal breaks.

(c) A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take

reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.

(d) A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.

SL 04.05 SPECIAL CONDITIONS FOR SECURITY GUARDS

(a) A security guard may work up to 55 hours per week and up to eleven hours per day.

(b) A security guard who works more than ten hours per day must have a meal break of at least one hour duration or two breaks of at least 30 minutes duration each.

SL 04.06 DAILY REST PERIOD

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

SL 04.07 WEEKLY REST PERIOD

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

SL 04.08 WORK ON SUNDAYS AND PUBLIC HOLIDAYS

(a) A worker may only work on a Sunday or public holiday to perform emergency or security work.

(b) Work on Sundays is paid at the ordinary rate of pay.

(c) A task-rated worker who works on a public holiday must be paid –

(i) the worker's daily task rate, if the worker works for less than four hours;

(ii) double the worker's daily task rate, if the worker works for more than four hours.

(d) A time-rated worker who works on a public holiday must be paid –

(i) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;

(ii) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday.

SL 04.09 SICK LEAVE

(a) Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.

(b) A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.

(c) A worker may accumulate a maximum of twelve days' sick leave in a year.

(d) Accumulated sick-leave may not be transferred from one contract to another contract.

(e) An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.

(f) An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.

(g) An employer must pay a worker sick pay on the worker's usual payday.

(h) Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –

(i) absent from work for more than two consecutive days; or

(ii) absent from work on more than two occasions in any eight-week period.

(i) A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.

(j) A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

SL 04.10 MATERNITY LEAVE

(a) A worker may take up to four consecutive months' unpaid maternity leave.

(b) A worker is not entitled to any payment or employment-related benefits during maternity leave.

(c) A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.

(d) A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.

(e) A worker may begin maternity leave –

(i) four weeks before the expected date of birth; or

(ii) on an earlier date –

(1) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or

(2) if agreed to between employer and worker; or

(iii) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.

(f) A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.

(g) A worker who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the SPWP on which she was employed has ended.

SL 04.11 FAMILY RESPONSIBILITY LEAVE

(a) Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances -

(i) when the employee's child is born;

(ii) when the employee's child is sick;

(iii) in the event of the death of –

(1) the employee's spouse or life partner

(2) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling

SL 04.12 STATEMENT OF CONDITIONS

(a) An employer must give a worker a statement containing the following details at the start of employment –

(i) the employer's name and address and the name of the SPWP;

(ii) the tasks or job that the worker is to perform;

(iii) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;

(iv) the worker's rate of pay and how this is to be calculated;

(v) the training that the worker may be entitled to receive during the SPWP.

(b) An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.

(c) An employer must supply each worker with a copy of the relevant conditions of employment contained in this specification.

(d) An employer must enter into a formal contract of employment with each employee. A copy of a pro-forma is attached at the end of this specification.

SL 04.13 KEEPING RECORDS

(a) Every employer must keep a written record of at least the following –

(i) the worker's name and position;

(ii) in the case of a task-rated worker, the number of tasks completed by the worker;

(iii) in the case of a time-rated worker, the time worked by the worker;

(iv) payments made to each worker.

(b) The employer must keep this record for a period of at least three years after the completion of the SPWP.

SL 04.14 PAYMENT

(a) A task-rated worker will only be paid for tasks that have been completed.

(b) An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer. Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.

(c) A time-rated worker will be paid at the end of each month and payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.

(d) Payment in cash or by cheque must take place –

(i) at the workplace or at a place agreed to by at least 75% of the workers; and

(ii) during the worker's working hours or within fifteen minutes of the start or finish of work;

(e) All payments must be enclosed in a sealed envelope which becomes the property of the worker.

(f) An employer must give a worker the following information in writing –

(i) the period for which payment is made;

(ii) the number of tasks completed or hours worked;

(iii) the worker's earnings;

(iv) any money deducted from the payment;

(v) the actual amount paid to the worker.

(g) If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it.

(h) If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.

SL 04.15 DEDUCTIONS

(a) An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.

(b) An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.

(c) An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.

(d) An employer may not require or allow a worker to –

(i) repay any payment except an overpayment previously made by the employer by mistake;

(ii) state that the worker received a greater amount of money than the employer actually paid to the worker; or

(iii) pay the employer or any other person for having been employed.

SL 04.16 HEALTH AND SAFETY

(a) Employers must take all reasonable steps to ensure that the working environment is healthy and safe and that all legal requirements regarding health and safety are strictly adhered to.

(b) A worker must:

(i) work in a way that does not endanger his/her health and safety or that of any other person;

(ii) obey any health and safety instruction;

(iii) obey all health and safety rules of the SPWP;

(iv) use any personal protective equipment or clothing issued by the employer;

(v) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

SL 04.17 COMPENSATION FOR INJURIES AND DISEASES

(a) It is the responsibility of employers to arrange for all persons employed on a SPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.

(b) A worker must report any work-related injury or occupational disease to their employer or manager.

(c) The employer must report the accident or disease to the Compensation Commissioner.

(d) An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

SL 04.18 TERMINATION

(a) The employer may terminate the employment of a worker provided he has a valid reason and after following existing termination procedures.

(b) A worker will not receive severance pay on termination.

(c) A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.

(d) A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

(e) A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

SL 04.19 CERTIFICATE OF SERVICE

(a) On termination of employment, a worker is entitled to a certificate stating –

(i) the worker's full name;

(ii) the name and address of the employer;

(iii) the SPWP on which the worker worked;

(iv) the work performed by the worker;

(v) any training received by the worker as part of the SPWP;

(vi) the period for which the worker worked on the SPWP;

(vii) any other information agreed on by the employer and worker.

SL 05 EMPLOYER'S RESPONSIBILITIES

The employer shall adhere to the conditions of employment as stipulated in the *Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes.* Over and above the conditions stipulated above, he shall be responsible to:

(a) formulate and design a contract between himself/ herself and each of the recruited youth workers, ensuring that the contract does not contravene any of the Acts stipulated in South African Law, e.g. Basic Conditions of Employment Act, etc. (A copy of a pro-forma contract is attached at the end of this specification);

(b) ensure that the recruited youth workers are made available to receive basic life skills training which will be conducted and paid for by the appointed service provider;

(d) ensure that all youth workers receive instruction on safety on site prior to them commencing with work on site;

(e) ensure that all youth workers are covered under workmen's compensation for as long as they are contracted to the contractor. Payment to the Compensation Commissioner shall be the responsibility of the contractor;

(f) assist in the identification and assessment of potential youth workers to undergo advanced technical training in respective trades;

(g) test and implement strict quality control and to ensure that the health and safety regulations are adhered to;

(h) provide all youth workers with the necessary protective clothing as required by law for the specific trades that they are involved in.

(i) provide overall supervision and day-to-day management of youth workers and/or sub-contractors; and

(j) ensure that all youth workers are paid their wages on time through a pre-agreed payment method as stipulated in the contract with the youth worker.

SL 06 PLACEMENT OF RECRUITED YOUTH WORKERS

Employers will be contractually obliged to:

(a) employ youth workers from targeted social groups from the priority list provided by the Departmental National Youth Service (NYS) manager.

(b) facilitate on-the-job training and skills development programmes for the youth workers;

(c) achieve the following minimum employment targets:

(i) 100% people between the ages of 18 and 35

(ii) 60% women;

(iii) 2% people with disabilities.

(d) brief youth workers on the conditions of employment as specified in sub clause SL 04.09 above;

(e) enter into a contract with each youth worker, which contract will form part of the Employment Agreement;

(f) allow youth workers the opportunity to attend life skills training through DOL. This shall be arranged at the beginning of the contract;

(g) ensure that payments to youth workers are made as set out in sub clauses SL 04.14 and SL 04.15 above.

(h) set up of personal profile files as prescribed by the NYS Manager and as set out in sub clause SL 04.13 above.

(i) in addition to (h)
- a copy of the I.D;
- qualifications;
- career progress; e.g.
  - Status of technical improvement,
  - Willingness to work,
  - Leadership capabilities,
  - Discipline; and
  - Any other factors that can assist DPW-HR with the placement of the youth workers ant the end of the programme
- EPWP Employment Agreement, and
- list of small trade tools;

must be included in the youth worker's personal profile file.

SL 07 TRAINING OF YOUTH WORKERS

Three types of training are applicable, namely

- Life skills;
- On the job training
- Technical Skills training.

Training will be implemented by training instructors accredited by DOL and/or CETA:

- Youth workers shall be employed on the projects for an average of 6 months.
- Youth workers shall be deployed on projects in the vicinity of their homes. The same arrangements as for other workers regarding accommodation, subsistence and travel shall be applicable to youth workers.

(a) Life skills training

All youth workers are entitled to undergo life skills training. Training of this module will be flexible enough to meet the needs of the employer. Training should take place immediately after site hand-over and during the period of site establishment and pre-planning before actual construction starts, alternatively this will be spread over the duration of the contract period. The contractor will be required to work closely with the person to schedule the training sessions so that the timing of the training is aligned with the contractors work schedule and his demand for workers.

(b) On-the job training

The Employer shall provide youth workers with on-the-job training to enable them to fulfil their employment requirements. The employer shall also be expected to closely monitor the job performance of youth workers and shall identify potential youth workers for skills development programmes.

(c) Technical skills training

The Employer shall assist in identifying youth workers for further training. These youth workers will undergo further technical training to prepare them for opportunities as semi-skilled labourers.

Such training will comprise of an off-site theoretical component and practical training on-site. The contractor will be responsible for on-site practical work under his supervision. Youth workers who graduate from the first phase of the training programme will be identified and given opportunities to register for skills development programmes. These can ultimately result in an accredited qualification. The programme will consist of theoretical instruction away from the

construction site as well as on-site practical work under the supervision of the employer. Candidates will be entitled to employment to complete all training modules.

SL 08 BENEFICIARY (YOUTH WORKERS) SELECTION CRITERIA

SL 08.01 PREAMBLE

The *Code of Good Practise for Employment and Conditions of Work for Special Public Works Programmes* encourages:

- optimal use of locally-based labour in a Special Public Works Programme (SPWP);
- a focus on targeted groups which consist of namely youth, consisting of women, female-headed households, disabled and households coping with HIV/AIDS; and
- the empowerment of individuals and communities engaged in a SPWP through the provision of training.

SL 08.02 BENEFICIARY (YOUTH WORKERS) SELECTION CRITERIA

(a) The youth workers of the programmes should preferably be non-working individuals from the most vulnerable sections of disadvantaged communities who do not receive any social security pension income. The local community must, through all structures available, be informed of and consulted about the establishment of any EPWP – NYS

(b) In order to spread the benefit as broadly as possible in the community, a maximum of one person per household should be employed, taking local circumstances into account.

(c) Skilled artisans from other areas may be employed if they have skills that are required for a project and there are not enough persons in the local communities who have those skills or who could undergo appropriate skills training. However, this should not result in more than 20% of persons working on a programme not being from local communities.

(d) Programmes should set participation targets for employment with respect to youth, single male- and female-headed households, women, people with disabilities, households coping with HIV/AIDS, people who have never worked, and those in long-term unemployment.

(e) The proposed targets as set out in sub clause SL 06 (c)

- 100% youth from 18 to 35 years of age;
- 60% women;
- 2% disabled.

SL 09 CONTRACTUAL OBLIGATIONS IN RELATION TO YOUTH LABOUR

The youth workers to be employed in the programme (EPWP-NYS) shall be directly contracted to the employer. Over and above the construction and project management responsibilities, the employer will be expected to perform the tasks and responsibilities as set out in clause SL 05 above.

SL 10 RATES OF PAY

It is stipulated that youth workers on the EPWP-NYS receive a minimum of R2 706 per month (or R123 per day) whilst on the programme for both theoretical and on the job training.

SL 11 MEASUREMENTS AND PAYMENT

The number of youth workers specified for this contract that will receive orientation and technical training is 12

SL 11.01 TECHNICAL TRAINING CONDUCTED OFF SITE

SL 11.01.01 Skills development and technical training for youth workers for a period of 46 days per youth worker.....**R192 000.00**..... Unit: worker-days

The unit of measurement shall be the number of youth workers replaced while in training multiplied by the number of days absent from the site.

The rates tendered shall include full compensation for additional replacement labour during periods of off-site training.

SL 11.02 EMPLOYMENT OF YOUTH WORKERS

SL 11.02.01 Employment of youth workers.....**R23 400,00**.....Unit: Prov.Sum

The unit of measurement shall be the number of youth workers at the labour rate of R2 156-00 per month (in compliance with the minimum wage of EPWP Ministerial Document as issued by the Department of Labour) multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on 6 months appointment for youth workers on site under the Contractor

SL 11.03 PROVISION OF EPWP DESIGNED OVERALLS, HARD HATS TO YOUTH WORKERS AS WELL AS ONE PAIR OF SAFETY BOOTS.

SL 11.03.01 Supply 1 x EPWP branded overalls and 1 x EPWP branded hard hat and 1 pair of safety boots to youth each of the 12 youth worker .....**R11 800**... .....Unit: PC.Sum

Youth worker overalls should be orange (top and bottom) as per EPWP branding specification with the exception of Correctional Services contracts where the overalls should be blue (top and bottom). **A minimum of one set of overalls and 1 pair of safety boots per youth worker should be supplied**. Hard hats should be orange

and branded as per the EPWP branding specification which shall be provided to the Contractor.

SL 11.03.02 Profit and attendance..... Unit: %

An amount has been provided in the Schedule of Quantities under sub item SL 11.03.01 for the supply of EPWP designed overalls and hard hat, as per the EPWP branding specification provided by the EPWP unit. The Service Provider will have sole authority to spend the amounts or part thereof. The tendered percentage under sub items SL 11.03.01 will be paid to the contractor on the value of each payment pertaining to the supply of overalls and hard hats to cover his expenses in this regard.

SL 11.04 **PROVISION OF SMALL TOOLBOX FOR YOUTH WORKERS**

SL 11.04.01 Provide all youth workers with prescribed tools for their respective trades. Specification for the mentioned tools to be provided by the NYS Manager to the Contractor. These toolboxes will become the property of the youth workers after the completion of the programme... (**allowed R 1 500-00 / youth worker**) .....**R18 000**.....Unit: PC.Sum

SL 11.04.02 Profit and attendance..... Unit: %

SL 11.05.01 **Provision for medical fitness test for the learners before coming to site (allowed R630 / youth worker) .....R7 560.....**

SL 11.05.02 **PROVISION FOR THE GRADUATION CEREMONY OF THE LEARNERS & EXTERNAL STAKEHOLDERS (Allowed R13 500,00)**

EPWP - NYS AGREEMENT
LIMITED DURATION CONTRACT OF EMPLOYMENT
[Example]
FOR
EXPANDED PUBLIC WORKS PROGRAMME
BETWEEN

Company Name: .....
(herein after referred to as the "**contractor**")

Company Address: .....

Contract Name: .....

AND

Surname and Name/s .....
(hereinafter referred to as the "**Youth worker**")

Residential Address: .....

ID number: .....

1. The contractor hereby appoints the Youth worker in terms of a Limited Duration Contract, to work as a youth worker within a Special Public Works Programme (SPWP) Project.

2. This contract must be read in conjunction with the standard terms and conditions of employment applicable to a SPWP, a copy of which is attached.

3. The project where you will be employed is referred to as .....
and is located at .....

4. The contract will start on .....and end on.....

5. You must be aware that **this contract is a Limited Duration Contract** and **not a permanent job.** Your minimum period of employment will be 6 months and the contract may be terminated for one of the following reasons:
   (a) Funding for the programme in your areas comes to an end.
   (b) You repeatedly do not perform in terms of the tasks set out in your work programme.
   (c) If you breach any of the terms and conditions of this contract.

6. You will be employed as a general worker within the contract, you may, depending on the contractor's operational needs, be required to perform other duties that can be reasonably expected of you.

7. You will adhere to the contractors' disciplinary code.

8. You will be required to work your daily hours from ..... to ..... which included your meal break.

9. While you are working you will report to .....

10. You will be paid an time-rate amount of R ..... per hour.

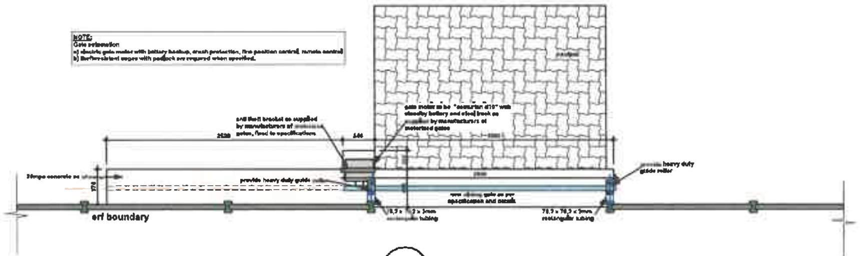
11. The contractor shall not be required to provide to local workers:
    - holiday, leave, sick or severance pay;
    - a pension or similar scheme;
    - a medical aid or similar scheme.

12. Signed on this day ..... of ..... 20.....

Contractor: ..... Date: .....

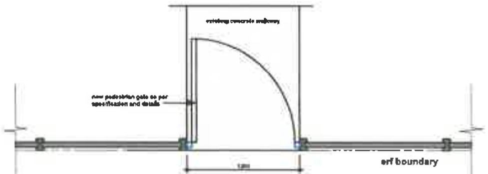
Youth Worker: ..... Date: .....

Witness: ..... Date: .....



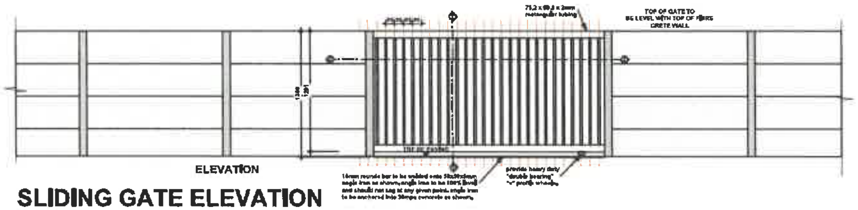
VEHICLE SLIDING GATE - PLAN (G5)

SCALE 1:25



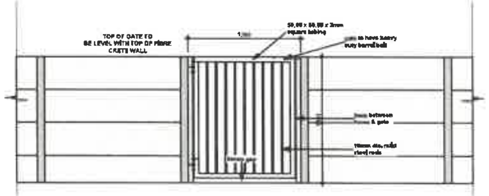
PEDESTRIAN GATE - PLAN (G4)

SCALE 1:25



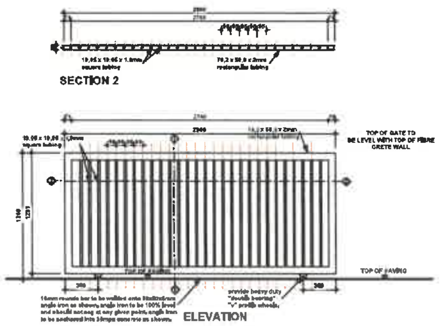
SLIDING GATE ELEVATION

SCALE 1:25



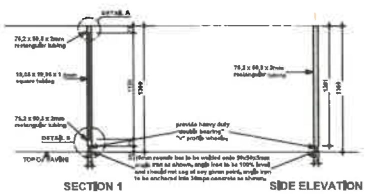
PEDESTRIAN GATE ELEVATION

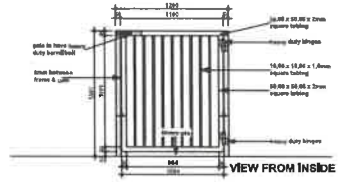
SCALE 1:25



SLIDING GATE DETAILS

SCALE 1:25





PEDESTRIAN GATE DETAILS

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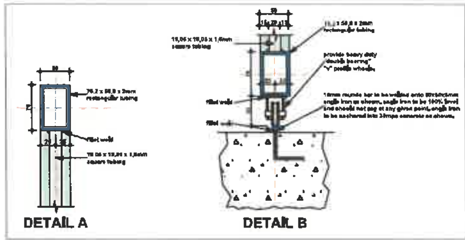

TYPICAL DETAILS

SCALE 1:4

NOTE:

PAINTING METALWORK (GALVANISED): (NEW OR UNPAINTED):
Wash down with an approved detergent, paint one coat self-etch primer, one undercoat and one coat high gloss finishing paint as specified in bill of quantities.

PAINT METALWORK (SUPPLIED WITH SHOP COAT):
Metalwork supplied with shop coat as mentioned below and built in as the work proceeds, to be cleaned and rubbed down on exposed surfaces, touched up with zinc chromate primer and painted one undercoat and one coat high gloss finishing coat.

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REPUBLIC OF SOUTH AFRICA

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ADV. SAM VUKELA

consultant/department: Aequith McGregor Design Studio CC

discipline: ARCHITECTURE

service

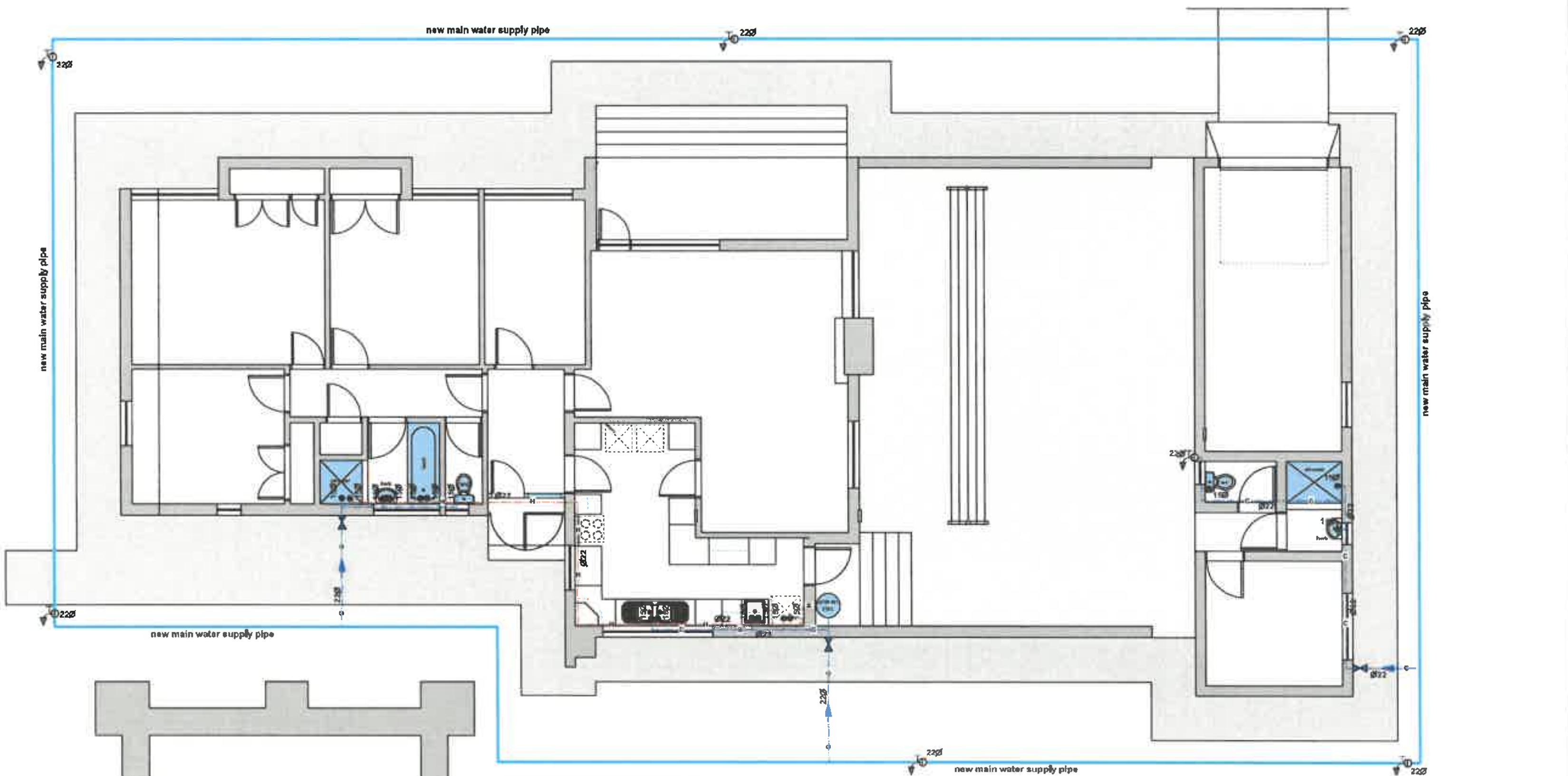
HANOVER MAGISTRATE'S OFFICE

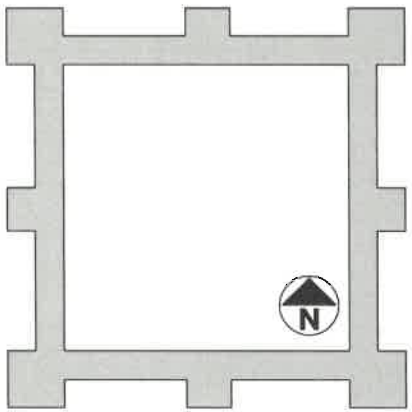
WCS number: 055335

drawing title: GATE 4 & 5 DROSDY

scale: 1:100
date: JULY 2021
drawn: A. MCGREGOR
checked: A. MCGREGOR

drawing number: 1308-018





WATER RETICULATION DROSDY

0 1 2 3 4 5 M

SANS 10252-1 WATER LEGEND	
(blue line)	New DIA 50mm (HDPE CLASS 9) main water supply pipe
— C — C — C	Pipe carrying cold water
— H — H — H	Pipe carrying hot water
(arrow)	Normal direction of flow
(symbol)	MIXER water tap (manual controls)
(symbol)	Stop cock / Isolation valve
(symbol)	Float valve to comply with SANS 752 & SANS 1006
(symbol)	Tap (external) min 450mm above ngl. Brass taps with screwed nozzle for hose
(symbol)	Non-return valve
(symbol)	200l Warm water heater (geyser)

NOTE:
All work to be done in accordance with the national building regulations and to satisfy SANS 10400 and SANS10252-1:2012. Testing of complete water system to satisfy SANS 10252-1:2012 ITEM 3.2.2. (testing pressure of 1500kPA for MIN. 1hour) Underground piping to satisfy SANS 1200-L. All work must be done by a registered plumber.

NOTE

GALVANISED WATER PIPING (REPLACE WITH COPPER):
Replace existing galvanised water pipes with copper piping as specified in bill of quantities.

See Civil Engineers drawings for additional work to be done.

SPECIFICATIONS FOR COPPER TUBE SANS 460 CLASS 0:
Is a hard drawn thin-walled tube for use without bending and recommended for above ground use only. Hard drawn tubing is not recommended for underground use due to its thin wall and lack of flexibility. Any change of direction using SANS 460 Class 0 tube, should be made by using capillary fittings.

HOLDERBATS, SUPPORTS AND FIXINGS POINTS TO REMEMBER
WHEN USING HOLDERBATS TO SUPPORT AND FIX COPPER TUBING:
- Always ensure an air gap between the tube and wall when using holderbats.
- Never overtighten, especially hot water lines. Allow for expansion.
- In humid atmospheres or in situations where condensation is likely, the tube be insulated from the galvanized or steel support brackets and holder bats using plastic, rubber or wood.
- Never position a holderbat close to a fitting.
- Holderbats and support brackets should be fixed at least 100mm away from a fitting or from a change of direction. This will allow free movement of the installation when expansion and contraction takes place.
- The use of steel nails, wire or brick force as a fixing alternative is not recommended as it may lead to eventual failure of the tube through localised corrosion.
- To avoid swaying, when pipes are fixed in a suspended ceiling space by hanging brackets, suitable bracing should be used to fix the installation to the support brackets. i.e. Tarzan type holder brackets.

THERMAL EXPANSION OF COPPER TUBING
The coefficient of linear expansion of copper tubing is 0.0166mm per m °C between 0° and 100°C. For example: A temperature increase from 0° to 65°C will cause a linear expansion of 1.078mm per m. ie 0.016 x 65 = 1.078mm expansion per meter. Provision for expansion can include the forming of expansion loops and offsets, as illustrated and refer to SANS 10252-1: 2012. Changing direction can also be used to avoid long straight runs.

CAPILLARY FITTINGS
A full range of capillary fittings is readily available in all sizes to fit SANS 460 Classes 0, from 15mm to 108mm copper tube. Capillary fittings used with waterbased self cleaning flux with no ammonia and 97/3 tin 97% copper 3% solder, make a strong and lasting joint. Care should be taken to not use too much flux due to the cleaning agents in the flux that can be harmful to the copper system if not cleaned off properly.

THE CAPILLARY SOLDER SYSTEM
Solder joints depend on capillary action drawing free-flowing molten solder into the gap between the fitting and the tube replacing the flux with solder. This action is called the capillary action. All fittings should be manufactured in accordance with SANS 1067 part 1 & 2: Copper Based Fittings for Copper Tubes. Caution should be taken when working with fittings. Quality is off utmost importance to be guaranteed that the fittings are not over or under size.
It is extremely important to use only the recommended solder. Any solder containing lead or having either a resin or acid core should be avoided at all times due not only to the obvious health hazard, but also to the risk of mechanical failure of the joint. The type of flux required is self cleaning, water based, containing NO ammonia and is able to withstand temperatures in excess of 240 °C.
NOTE: The term Self Cleaning flux means that the flux will rinse out of the system once flushed and not that the flux will clean the pipe when applied.
We recommend: NASCO 97/3 (97% Tin and 3% Copper) lead-free solder. SANS 24:1994

COPPER TUBE IN CHASINGS AND CONCRETE
The use of ordinary Portland cement is acceptable with the correct class selection of copper tubing. Make sure that when you insert any hot water pipe into a wall or through a wall to lag the tube as per the SANS 10252-1: 2012. However CTA recommend the lagging of all copper tube in walls giving we don't know the chemical composition of the building materials used i.e. cement, bricks, plaster etc. Avoid change of direction in a wall so that the tube is easily followed to the outlet. For more detail regarding the laying of tube in buildings refer to SANS 10252-1: 2012.

LAGGING OF TUBE
All hot water piping, including relief drain pipes, that is encased in concrete, plaster or similar material that can restrict the movement of such piping owing to expansion or contraction, shall be lagged throughout the whole encased length with hair felt or other approved flexible lagging material. (Extracted from SANS 10252-1 2012. Chapter 5.6.3.4 (Page 117) CTA suggest that all copper tube (hot as well as cold) installed in walls be lagged owing we do not know the chemical composition of the cement and or other building materials. CXP Tape (Copper expansion protective tape)

THERMAL INSULATION
All exposed pipes to and from the hot water cylinders shall be insulated with pipe insulation material with an Rvalue in accordance with table 13, SANS 204:2011 Edition I

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HANOVER MAGISTRATE'S OFFICE

WCS number 055335

drawing title
WATER RETICULATION DROSDY

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scale	1:100	drawn	A. MCGREGOR
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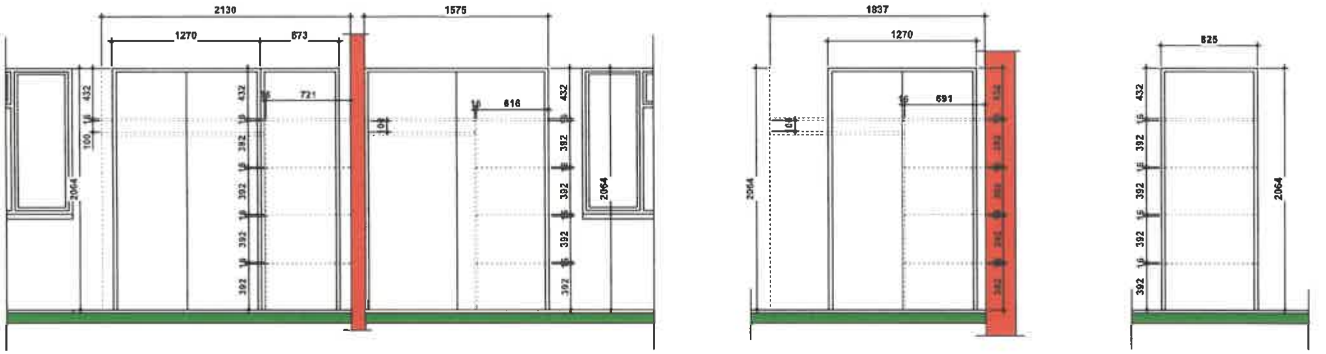
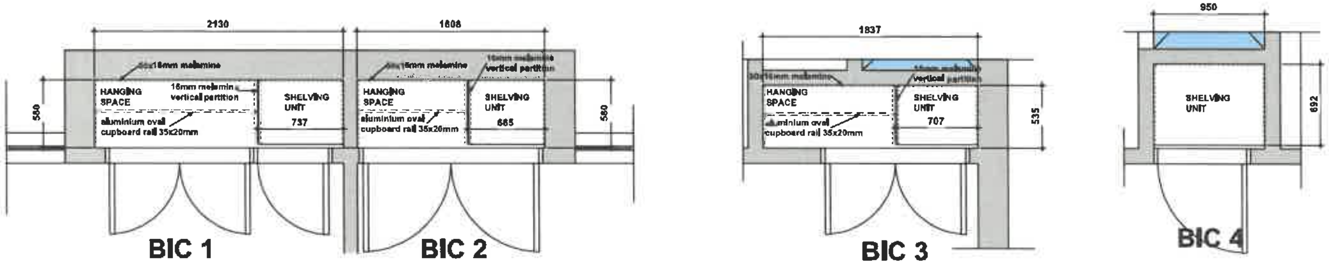
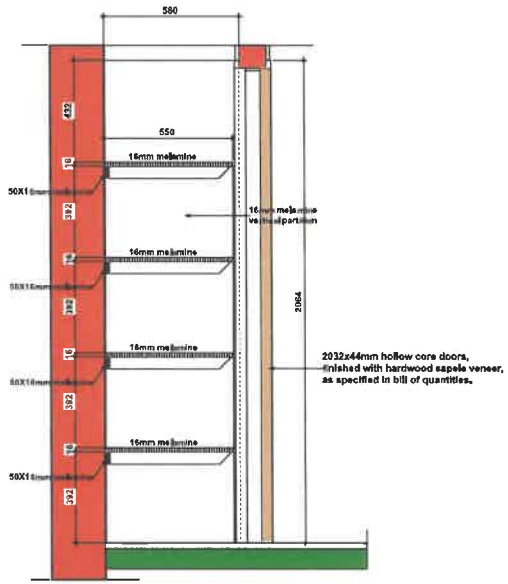
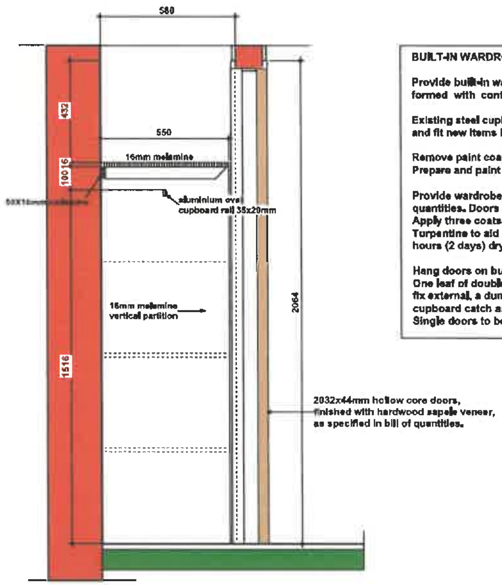






TYPICAL SECTION 1 BUILT IN CUPBOARDS



TYPICAL SECTION 2 BUILT IN CUPBOARDS

BUILT-IN WARDROBES:

Provide built-in wardrobes where indicated on floor plan. The wardrobes to be divided in sections as indicated, formed with continuous top shelf, vertical partition and intermediate shelves.

Existing steel cupboard door frames to be refurbished. Remove broken or defective door frame hinges. Provide and fit new items if needed to match existing and leave all in good working order.

Remove paint coating on frames to a bare surface.
Prepare and paint one primer coat and one undercoat and one coat high gloss paint to metalwork.

Provide wardrobes with hollow core doors, finished with hardwood sapele veneer, as specified in bill of quantities. Doors are to be finished off to open and close freely.
Apply three coats of penetrating wood treatment on all woodwork. Thin the first coat 50% with Mineral Turpentine to aid penetration on wood. Thin second coat 10% followed by the final coat un-thinned. Allow 48 hours (2 days) drying time between coats. Colour to architects specification and colour scheme.

Hang doors on butts supplied with frames.
One leaf of double doors to be provided with 102mm necked socket bolt, screwed to top and bottom of leaf and fix external, a dummy handle to match locking push button. The other leaf to be fitted with locking push button cupboard catch as PWD sample 56.
Single doors to be fitted with locking push button cupboard catch as PWD sample 56.

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consultant/departmental: Asquith McGregor Design Studio CC

discipline: ARCHITECTURE

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WCS number: 055335

drawing title: **BUILT-IN CUPBOARDS DROSDY**

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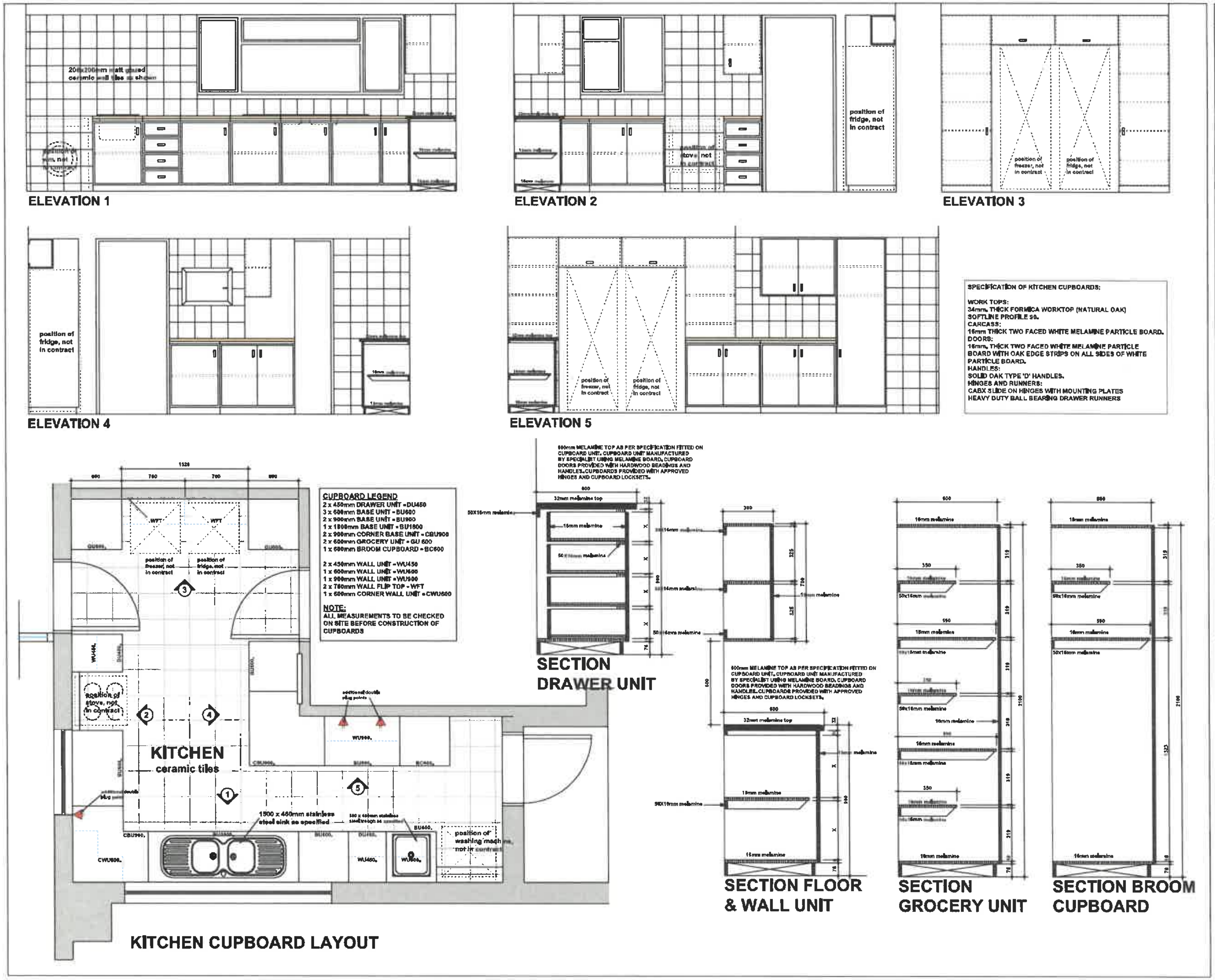
date: JULY 2021

designed / drawn: A. MCGREGOR

checked: A. MCGREGOR

type number

drawing number: **1308-016**



CUPBOARD LEGEND

2 x 450mm DRAWER UNIT = DU450
3 x 600mm BASE UNIT = BU600
2 x 900mm BASE UNIT = BU900
1 x 1800mm BASE UNIT = BU1800
2 x 900mm CORNER BASE UNIT = CBU900
2 x 600mm GROCERY UNIT = GU 600
1 x 600mm BROOM CUPBOARD = BC600

2 x 450mm WALL UNIT = WU450
1 x 600mm WALL UNIT = WU600
1 x 900mm WALL UNIT = WU900
2 x 760mm WALL FLIP TOP = WFT
1 x 600mm CORNER WALL UNIT = CWU600

NOTE:
ALL MEASUREMENTS TO BE CHECKED ON SITE BEFORE CONSTRUCTION OF CUPBOARDS

SPECIFICATION OF KITCHEN CUPBOARDS:

WORK TOPS:
34mm. THICK FORMICA WORKTOP (NATURAL OAK)
SOFTLINE PROFILE 90.
CARCASS:
16mm THICK TWO FACED WHITE MELAMINE PARTICLE BOARD.
DOORS:
16mm. THICK TWO FACED WHITE MELAMINE PARTICLE BOARD WITH OAK EDGE STRIPS ON ALL SIDES OF WHITE PARTICLE BOARD.
HANDLES:
SOLID OAK TYPE 'D' HANDLES.
HINGES AND RUNNERS:
CABX SLIDE ON HINGES WITH MOUNTING PLATES
HEAVY DUTY BALL BEARING DRAWER RUNNERS

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KITCHEN CUPBOARDS DROSDY

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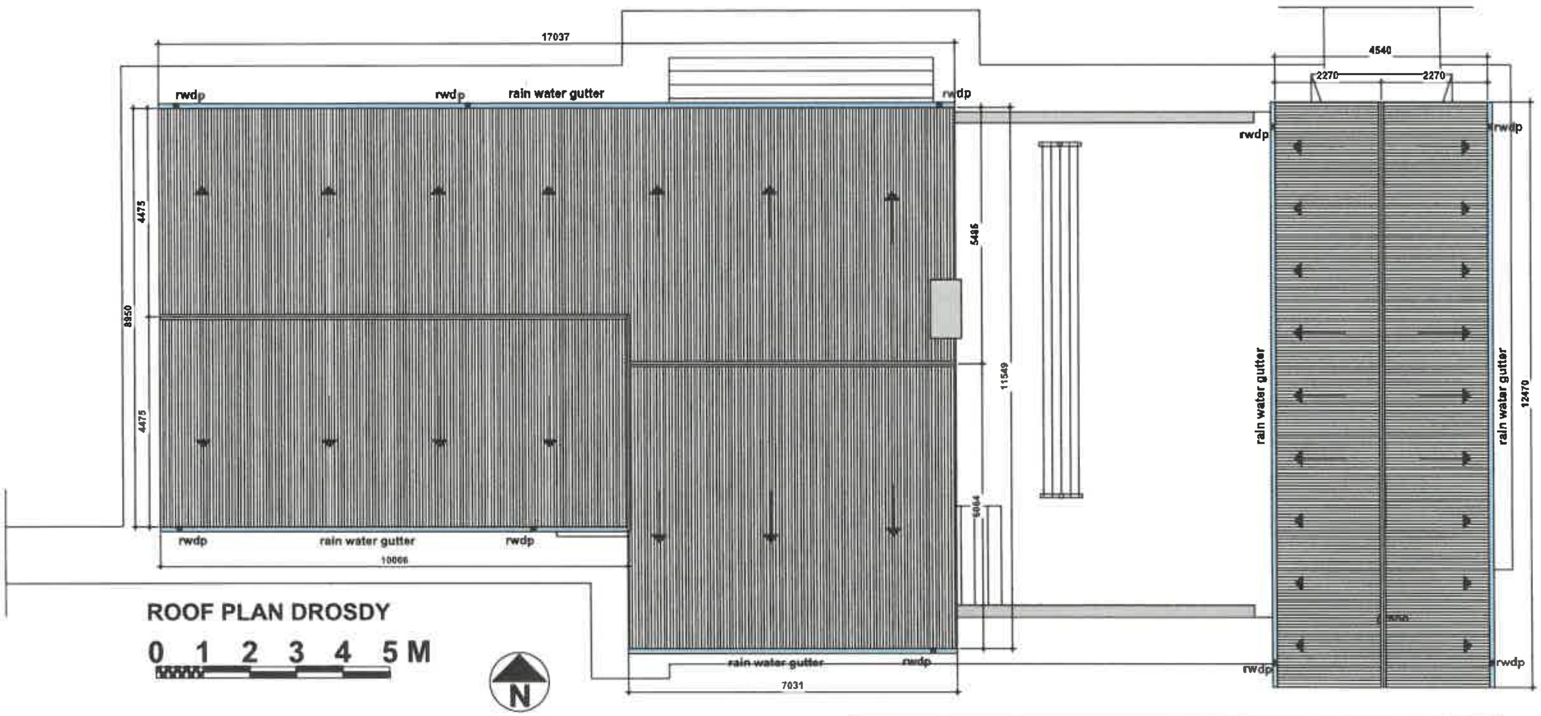

ROOF PLAN DROSDY

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

GALVANISED IRON ROOF COVERING (REPAIRS):

Carefully examine entire roof areas and locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings. Locate holes and solder. Replace defective screws using longer screws as "Reseal" as SABS Specification 135 where purlins are fixed on edge, and 6mm bolts where purlins are fixed on flat. Beat into corrugations damaged or buckled edges, fix in position where necessary using self-tapping screws, roofing screws or verandah bolts. Similarly examine all flashing, ridging and valley linings, repair and refix loose sections, as for roof covering.

No plastic or other compounds are to be used to render leaks watertight.

FASCIA BOARDS (REPLACE WITH NEW):

Neatly cut fascia boards as required, take down and remove from site. Provide and fix new fascia boards to match existing.

RE-FIXING OF WOODWORK:

Examine all woodwork such as fascia and barge boards, eaves coverings and cover strips and all other woodwork fixed to walls and securely refix in their original positions using new plugs, longer screws, etc.

PAINTED GALVANISED IRON ROOF COVERING:

Strip roof paint completely back to a sound bare galvanised iron.
Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal.
To remove dirt, salts and zinc corrosion (white rust) clean thoroughly with Galvanised Iron Cleaner achieving a water-break free surface.
For sound surfaces scrub the area with Sugar Soap/water solution. Clean with high pressure water jet to remove Sugar Soap residue and other surface contaminates.
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.

GALVANISED IRON ROOF (PAINT UNDERNEATH WHERE EXPOSED):

Degrease with an approved detergent or solvent, apply two coats of approved primer and one coat approved roofing paint. Existing painted surfaces are to be cleaned and painted one coat approved roofing paint, all as specified.

UNDERSIDE OF CORRUGATED IRON ROOF COVERING PAINT IN BAD CONDITION):

Strip roof paint completely back to a sound bare galvanised iron.
Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal.
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.

PAINTED GUTTERS AND RAINWATER PIPES:

Provide new gutters and rainwater pipes. 125x100mm square gutter and 100x75mm down pipe. Rub down and paint:

GUTTERS OUTSIDE:
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.
GUTTERS INSIDE: Clean and paint one coat bituminous paint

PAINTED WOODEN FASCIA AND BARGE BOARDS:

Remove paint coating back to bare surface. Knot and stop, etc., and paint one primer coat, two undercoats and one coat high-gloss paint.

PAINTED FIBRE CEMENT FASCIA AND BARGE BOARDS WITH PAINT :

Remove paint coating back to bare surface. Rub down to a smooth surface, treat with approved bonding liquid, paint nail heads with flat paint and paint surfaces two coats approved Roofguard paint..

SPROCKETS INCLUDING BOTTOM PURLIN (PAINTED):

Rub down, clean and paint one undercoat and one coat high-gloss paint.

PAINTED VERANDAH ROOF WOODWORK:

Remove paint coating back to bare surface and rub down. Clean, knot, stop and paint one primer coat two undercoats and one coat high-gloss paint.

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discipline: ARCHITECTURE

service

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scale	1:50	drawn	A. MCGREGOR
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type number			
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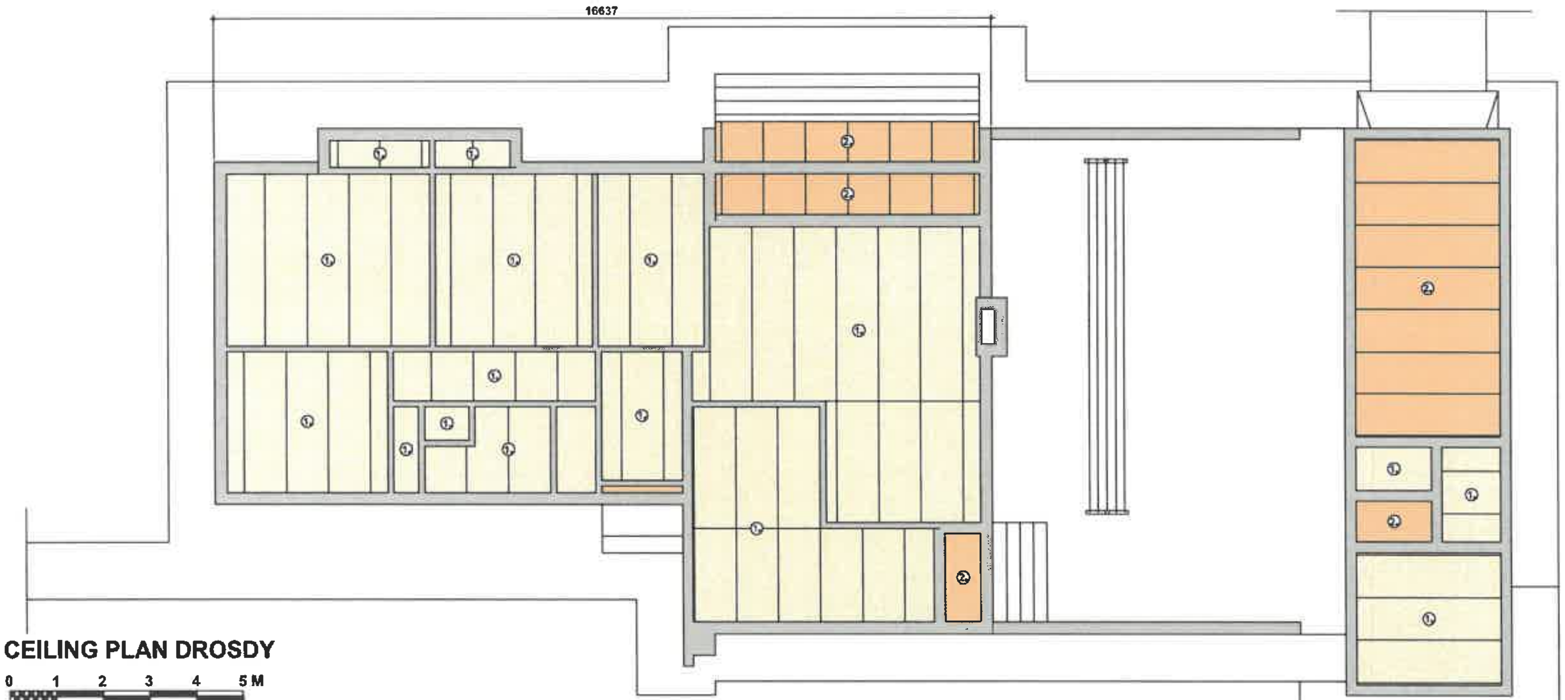


CEILING PLAN DROSDY

0 1 2 3 4 5 M

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

CEILING SPECIFICATION

① GYPSUM CEILING BOARDS = 126m2 TOTAL

Take off existing ceilings and brandering and remove from site.
Provide new 6,4mm gypsum ceilings fixed to 50x38mm SA Pine brandering at 450 c/c maximum.
Pattern when visible: arrange boards symmetrically about room, at right angles to brandering, with cut boards along walls. Nail boards to timber brandering with 38 mm hot dip galvanized clout nails or 32 x 2,5 mm diameter hot dip galvanized serrated ceiling nails at 150 mm centres maximum.

Take off existing cornices to the ceilings and remove from site.
Provide and fix new 75mm gypsum cornices, as described in bill of quantities.
Fix new cornices to ceiling with 40 x 2mm diameter cadmium plated clout headed nails, and to wall surfaces with approved hardened steel nails, all at not more than 200mm centres.

Prepare, stop and paint nail heads with flat paint and paint two coats interior emulsion paint to all gypsum plasterboard ceilings and cover strips and cornices.

Provide and lay on ceiling surfaces insulation, manufactured out of 135mm thick resin bonded glass fibre or rock mineral wool, as described in bill of quantities.

② FIBRE CEMENT BOARDS = 31m2 TOTAL

Take off existing ceilings and brandering and remove from site.
Provide new 4mm fibre cement ceilings fixed to 50x38mm SA Pine brandering at 450 c/c maximum.
Pattern when visible: arrange boards symmetrically about room, at right angles to brandering, with cut boards along walls. Nail boards to timber brandering with 38 mm hot dip galvanized clout nails or 32 x 2,5 mm diameter hot dip galvanized serrated ceiling nails at 150 mm centres maximum.

Take off existing cornices to the ceilings and remove from site.
Provide and fix new 76x19mm hardwood cornices, as described in bill of quantities.
Fix new cornices to wall surfaces with approved hardened steel nails, all at not more than 200mm centres.

Prepare, stop and prime with an approved Alkali resisting primer and paint one undercoat and one coat flat paint to all fibre cement ceilings, cornices and cover strips.

Provide and lay on ceiling surfaces insulation, manufactured out of 135mm thick resin bonded glass fibre or rock mineral wool, as described in bill of quantities.

NO.	DATE	AMENDMENT	D/AM.

cad file name: VECTORWORKS DRAWING

public works
Department: Public Works
REPUBLIC OF SOUTH AFRICA

DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A. McGregor Pr Arch

discipline: ARCHITECTURE

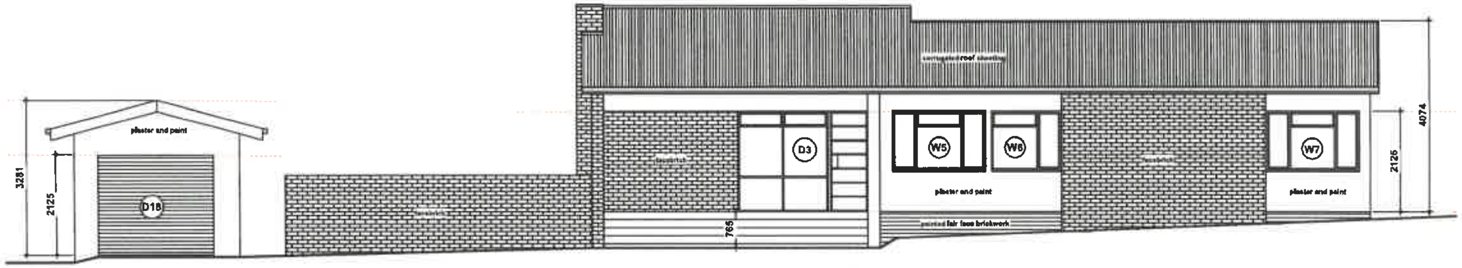
service:

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: CEILING PLAN DROSDY

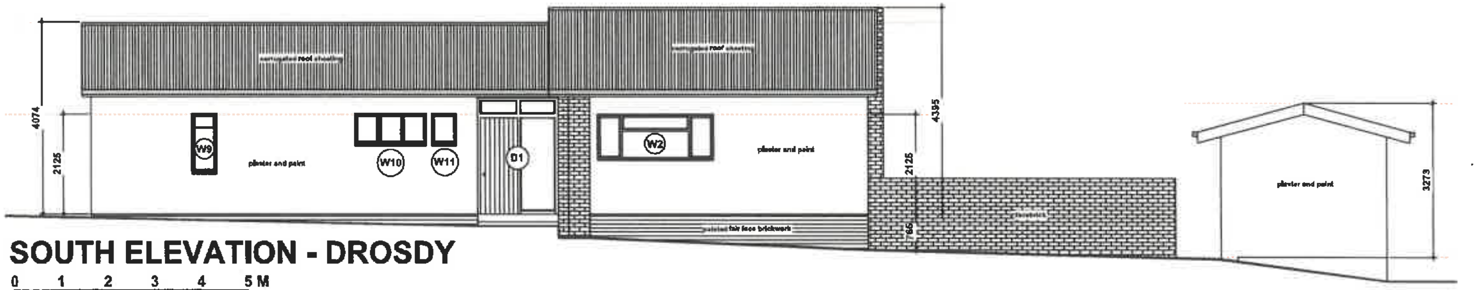
ref.no: 10/2/4/2/2/2374/10
scale: 1:50
date: JULY 2021
designed:
drawn: A. MCGREGOR
checked: A. MCGREGOR
type number:
drawing number: 1308-013



NORTH ELEVATION - DROSDY

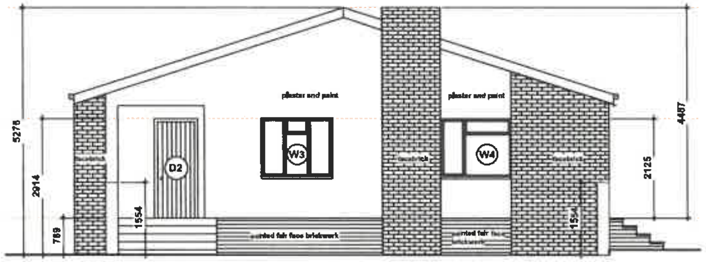
0 1 2 3 4 5 M

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.



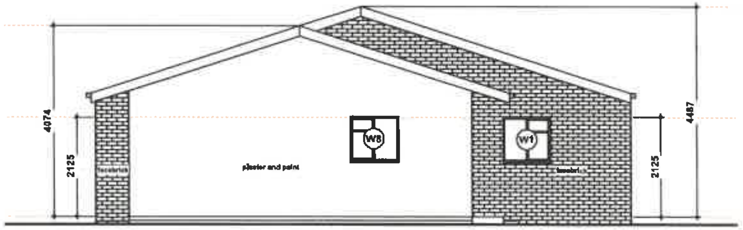
SOUTH ELEVATION - DROSDY

0 1 2 3 4 5 M



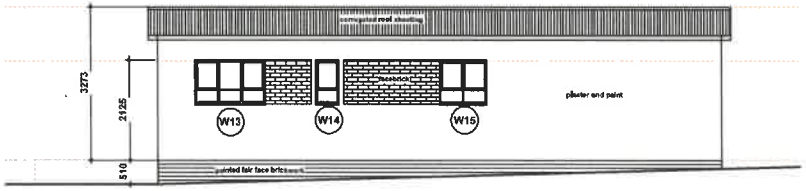
EAST ELEVATION - DROSDY

0 1 2 3 4 5 M



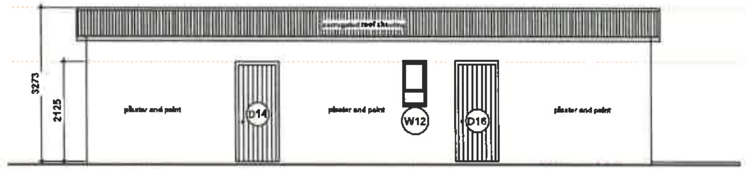
WEST ELEVATION - DROSDY

0 1 2 3 4 5 M



EAST ELEVATION - OUTBUILDING

0 1 2 3 4 5 M



WEST ELEVATION - OUTBUILDING

0 1 2 3 4 5 M

NO.	DATE	AMENDMENT	D.P.W.

LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES. SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

WALLS (INTERNAL & EXTERNAL):

BEAM FILLING (REPAIRS):
Hack out existing beam filling where needed and build in new beam filling. Finish new brickwork with plaster as required or specified.

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:
Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers.
Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

HACK OFF AND RE-PLASTER (INTERIOR AND EXTERIOR):
Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork and replaster the surfaces with cement mortar, finished smooth and flush with adjoining surfaces to match existing.

REPAIR CRACKS IN WALLS:
Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster. Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Bird wire to be fixed to brickwork with 65mm galvanised nails staggered at a distance from eatch other 100mm. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

PAINTED WALL SURFACES WITH PAINT IN BAD CONDITION:
Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint.
One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions and two coats of the paint as specified in the bill of quantities.

DOORS AND WINDOWS:

ALL EXISTING DOORS AND WINDOWS:
See schedules and specification for work to be done.

GALVANISED IRON ROOF COVERING (REPAIRS AND PAINT):
See roof plan and specification for work to be done.

cad file name
VECTORWORKS DRAWING

public works
Department:
Public Works
REPUBLIC OF SOUTH AFRICA

DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A. McGregor Pr Arch MArch 1999/036356/23

discipline
ARCHITECTURE

service

HANOVER MAGISTRATE'S OFFICE

WCS number 055335

drawing title

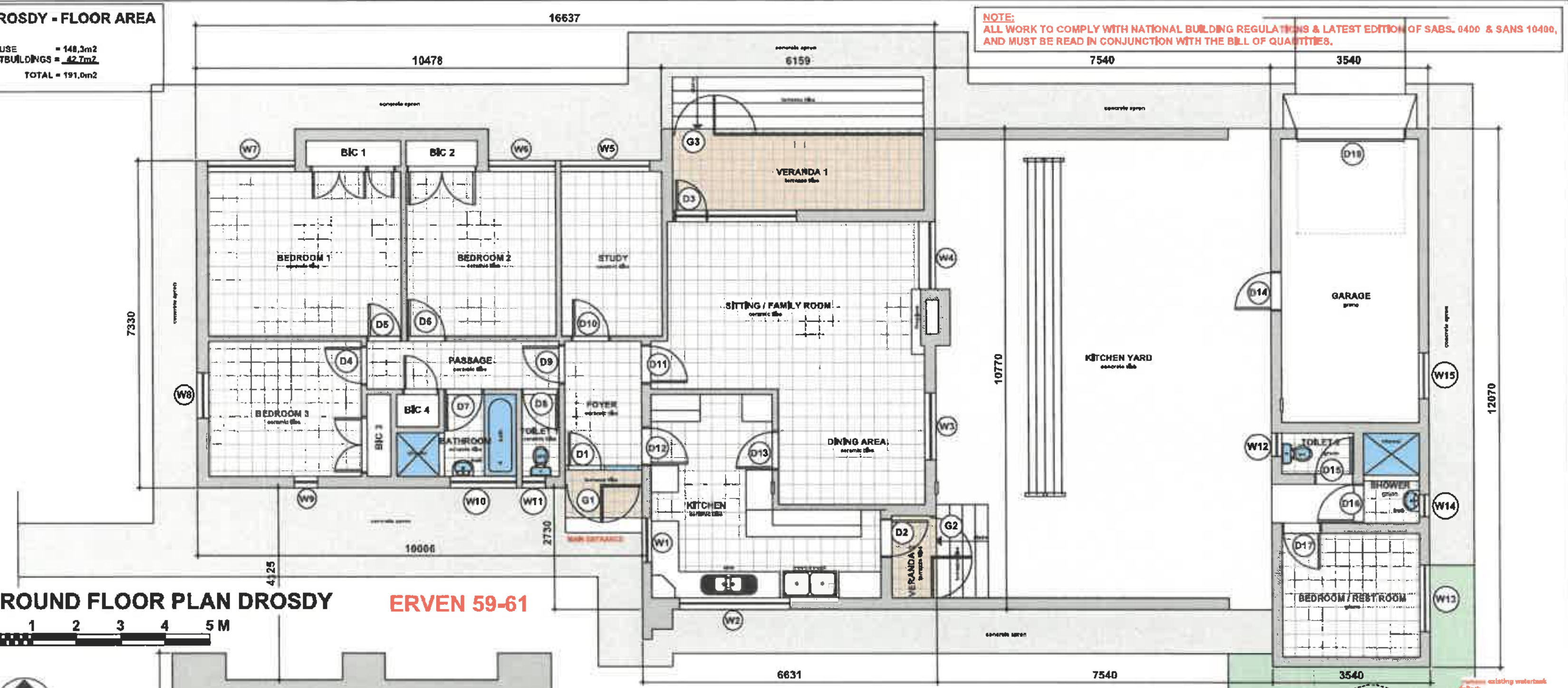
ELEVATIONS DROSDY

ref.no	18/2/4/2/2/2374/10	designed	
scale	1:50	drawn	A. MCGREGOR
date	MARCH 2021	checked	A. MCGREGOR
type number			
drawing number	1308-012		

DROSDY - FLOOR AREA

HOUSE = 148,3m2
OUTBUILDINGS = 42,7m2
TOTAL = 191,0m2

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.



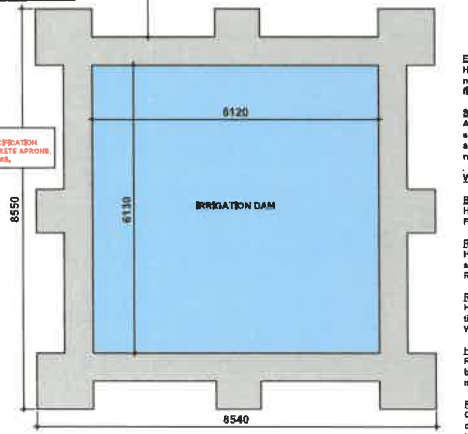
GROUND FLOOR PLAN DROSDY

ERVEN 59-61

0 1 2 3 4 5 M

N

NOTE
SEE CIVIL ENGINEERS DRAWINGS AND SPECIFICATION FOR REPAIRS AND RENOVATIONS OF CONCRETE APRONS, DRIVEWAY AND SEWER AND WATER SYSTEMS.



LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES. SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

CONCRETE SURFACE BEDS & FLOOR FINISH:

CRACKS IN CONCRETE FLOORS (REPAIRS):
Clean cracks out, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked.

REPAIR SURFACE BED (WITH FLOOR COVERING):
Remove the existing floor covering, hack up the defective concrete surface bed, provide and place filling in 150mm thick layers and consolidate up to the underside of the concrete floor slab. Provide and lay damp proof membrane below surface bed, to match the existing or similar. Sheeting shall be laid over the damaged sections well lapped and sealed in an approved manner, prior to the casting of new concrete surface bed.

Where the entire surface bed is to be replaced, the preparation shall be as above, except that the whole of the floor area shall be covered with a damp proof membrane as specified in clause 6.2 of OW 371. Cast a new concrete surface bed in Class C-concrete in thicknesses to match existing surface beds or 75mm thick in cases where entire floor areas are to be cast. Finish off concrete surface beds with 3:1 cement screed of the thickness required but in no case less than 12mm thick. The screed shall be finished off with a wood float and steel trowel to a true, smooth and even surface, ready for the laying of floor tiles, mosaics or wood blocks, elsewhere specified.

EXISTING FLOOR FINISH (REPLACE):
Hack up existing ceramic floor finish and remove rubble from site. Clean existing surface bed, prepare for and lay new screeding where needed in 3:1 cement mortar to a smooth and true surface and to required heights to suit existing floor levels. Cover the floors indicated on drawing with ceramic tiles as specified in bill of quantities.

SKIRTINGS AND ANGLE MOULDS:
Allow for removal of the existing skirtings and angle moulds where needed. New skirtings where needed to match existing, mitred at angles and securely fixed to plugs in walls, and at junctions of skirtings and floors, fix quadrant angle moulds, neatly mitred at angles, close fitted and securely fixed, to skirtings. Skirtings to be sanded and repainted.

WALLS (INTERNAL & EXTERNAL):

BEAM FILLING (REPAIRS):
Hack out existing beam filling where needed and build in new beam filling.
Finish new brickwork with plaster as required or specified.

REMOVE GLAZED WALL TILES:
Hack off glazed wall tiling, including the cement backing thereto, to the areas where directed and remove rubble from site.
Rake out joints of brickwork, prepare and repair plaster.

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:
Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers.
Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

HACK OFF AND RE-PLASTER (INTERIOR AND EXTERIOR):
Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork and re-plaster the surfaces with cement mortar, finished smooth and flush with adjoining surfaces to match existing.

REPAIR CRACKS IN WALLS:
Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster. Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Bird wire to be fixed to brickwork with 65mm galvanised nails staggered at a distance from eatch other 100mm. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

PAINTED WALL SURFACES WITH PAINT IN BAD CONDITION:
Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint.
One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions and two coats of the paint as specified in the bill of quantities.

DOORS AND WINDOWS:

ALL EXISTING DOORS AND WINDOWS:
See schedules for specification of work to be done.

CEILINGS:
See ceiling layout drawing and specification

FLOOR COVERINGS.
Provide new floor covering as per specification

remove existing watertank plinth.

BATHROOM , TOILETS , SHOWER:

WATER CLOSET PANS:
Disconnect and remove existing water closet pans. Provide and install new water closet pans as described, including the connection of pipes to closet pans as specified. (SANS 497)

FLUSHING CISTERNS:
Remove existing flushing cisterns. Provide and fix new cisterns as specified, including the connection of pipes to cisterns and closet pans. (SANS 497)

TOILET SEATS (HEAVY DUTY PLASTIC):
Provide heavy duty plastic double flap seats to closet pans. Flap to be secured to pan, complete with rubber buffer etc.

WASH HAND BASINS (BRACKET TYPE):
Disconnect cold, hot and waste pipes, remove wash hand basin complete with brackets. Provide and fit new wash hand basins as specified. Provide and fit wash hand basins with new chromium-plated easy clean screw down pillar taps as specified. Provide and fit new traps.

TOILET ROLL HOLDERS:
Provide and fix in each W.C. chromium-plated toilet roll holders as sample 71. Screwed to plugs in walls.

TOWEL RAILS:
Provide and fix in position where directed a 20mm diameter towel rail, 750mm long, supported on chromium plated brackets as specified.

GLAZED WALL TILING ABOVE WASH HAND BASINS:
Line the walls above wash hand basins with three rows 200x200mm white matt glazed tiles as specified.

BATHROOM & SHOWER CABINET:
Provide and fix a new approved hardwood cabinet.
The size of cabinet to be 450 x 350 x 100mm deep. The cabinet shall be fitted with one shelf and a mirror of 6mm thick rounded and polished edges silvered plate glass, as described in bill of quantities

REPLACE SOAP RECEPTACLES:
Remove existing soap receptacles, including cement mortar. Thoroughly clean out and wet hole. Provide and fit in cement mortar, a new approved white or coloured glazed earthenware soap receptable with tongued lip.

SHOWER ENCLOSURES:
Tiled floor (as per specification) laid with fall to shower trap. Provide taps, valves, showerheads complete as per SANS 549

BUILT IN CUPBOARDS , KITCHEN CUPBOARDS & SHELVING:

See detail drawings and specification for all cupboards and shelving.

NO.	DATE	AMENDMENT	DATE

cad file name: VECTORWORKS DRAWING

public works
Department: Public Works
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/department
Asquith McGregor Design Studio CC

discipline: ARCHITECTURE

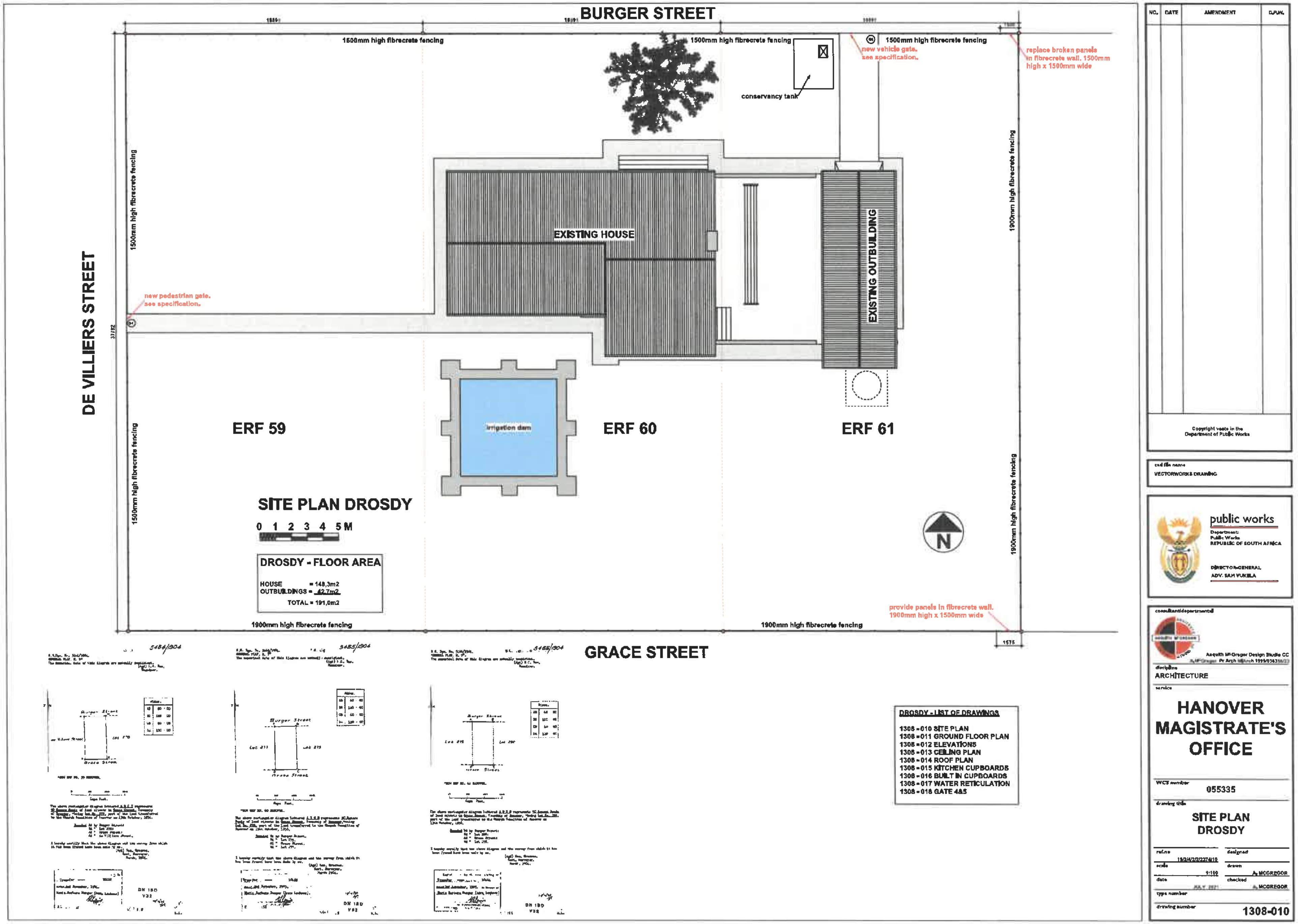
service:

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: GROUND FLOOR PLAN DROSDY

ref.no: 11/2/4/2/2/2374/10
scale: 1:50
date: JULY 2021
designed:
drawn: A. MCGREGOR
checked: A. MCGREGOR
type number:
drawing number: 1308-011


BURGER STREET
DE VILLIERS STREET
GRACE STREET
1500mm high fibrecrete fencing
1900mm high fibrecrete fencing
conservancy tank
new vehicle gate. see specification.
replace broken panels in fibrecrete wall. 1500mm high x 1500mm wide
new pedestrian gate. see specification.
provide panels in fibrecrete wall. 1900mm high x 1500mm wide
EXISTING HOUSE
EXISTING OUTBUILDING
irrigation dam
ERF 59
ERF 60
ERF 61
N
SITE PLAN DROSDY
0 1 2 3 4 5 M
DROSDY - FLOOR AREA
HOUSE = 148,3m2
OUTBUILDINGS = 42,7m2
TOTAL = 191,0m2
DROSDY - LIST OF DRAWINGS
1308 - 010 SITE PLAN
1308 - 011 GROUND FLOOR PLAN
1308 - 012 ELEVATIONS
1308 - 013 CEILING PLAN
1308 - 014 ROOF PLAN
1308 - 015 KITCHEN CUPBOARDS
1308 - 016 BUILT IN CUPBOARDS
1308 - 017 WATER RETICULATION
1308 - 018 GATE 4&5
NO. DATE AMENDMENT D.P.W.
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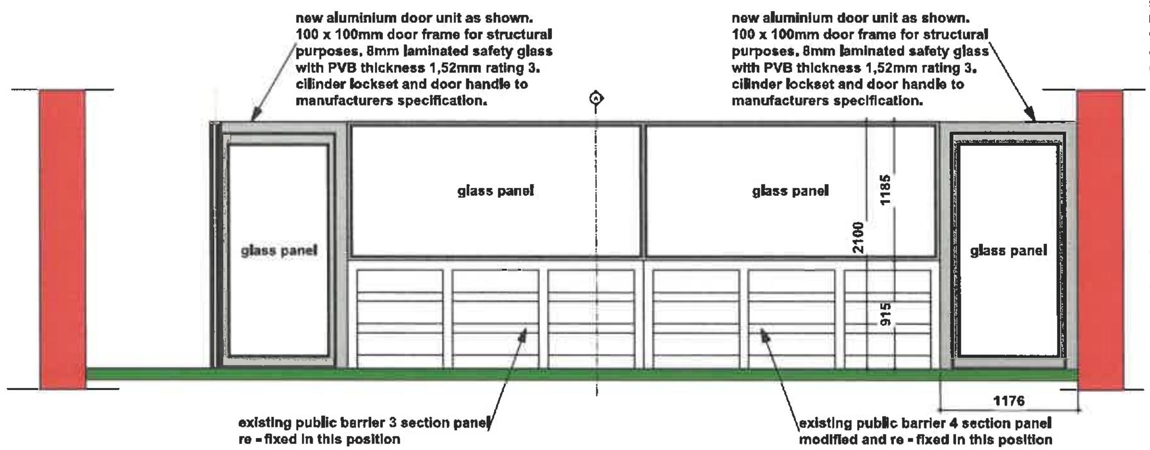
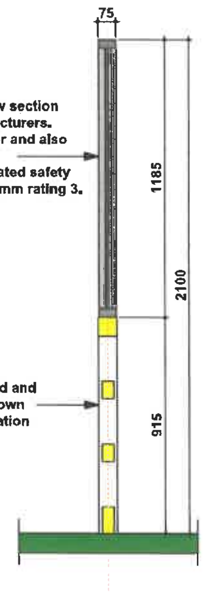
cad file name
VECTORWORKS DRAWING
public works
Department: Public Works REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL ADV. SAM VUKELA
consultant/department
Asquith McGregor Design Studio CC
discipline
ARCHITECTURE
service
HANOVER MAGISTRATE'S OFFICE
WCS number
055335
drawing title
SITE PLAN DROSDY
scale 1:100
drawn A. MCGREGOR
date JULY 2021
checked A. MCGREGOR
drawing number
1308-010

NOTE:
ALL LEVELS AND DIMENTIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND WHICH IS DEPENDANT ON THESE SIZES, DO NOT SCALE DRAWINGS.
FIGURED DIMENSIONS ONLY TO BE ACCEPTED AND OVERALL DIMENSIONS TO TAKE PRECEDENCE.

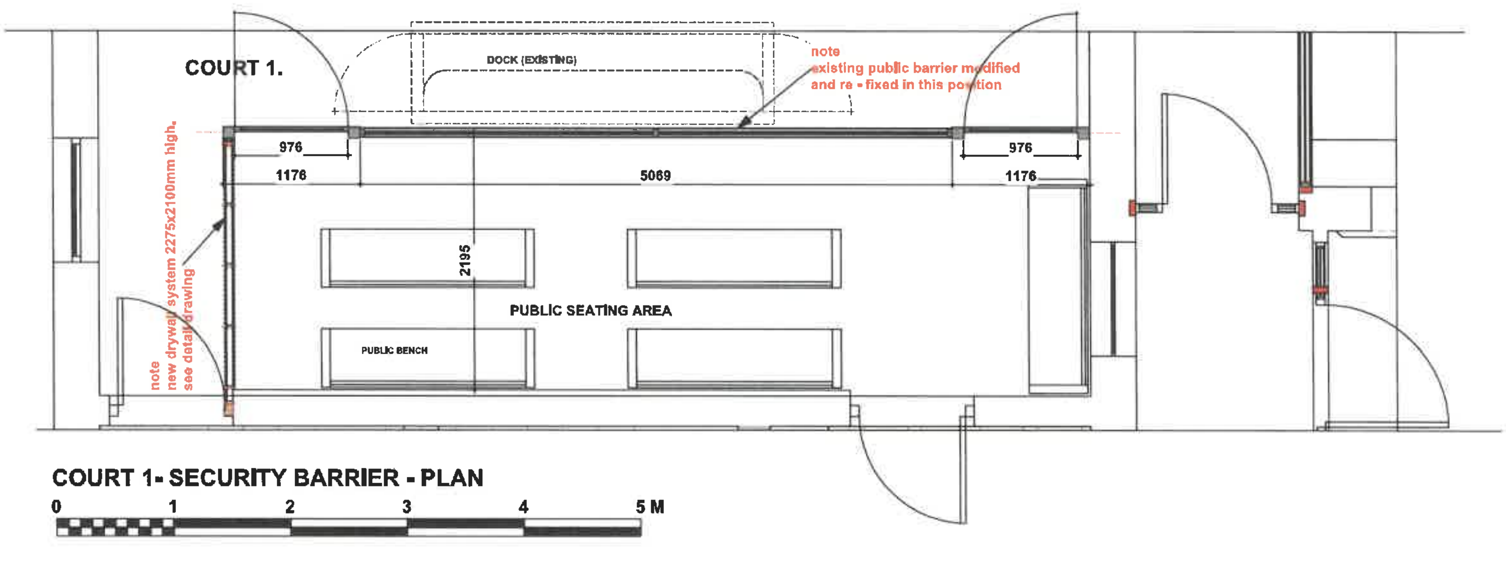


COURT 1- SECURITY BARRIER - ELEVATION

0 1 2 3 4 5 M



SECTION A-A



COURT 1- SECURITY BARRIER - PLAN

0 1 2 3 4 5 M

NO.	DATE	AMENDMENT	D/A/A

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cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental: Asquith Mc Gregor Design Studio CC

discipline: ARCHITECTURE

service:

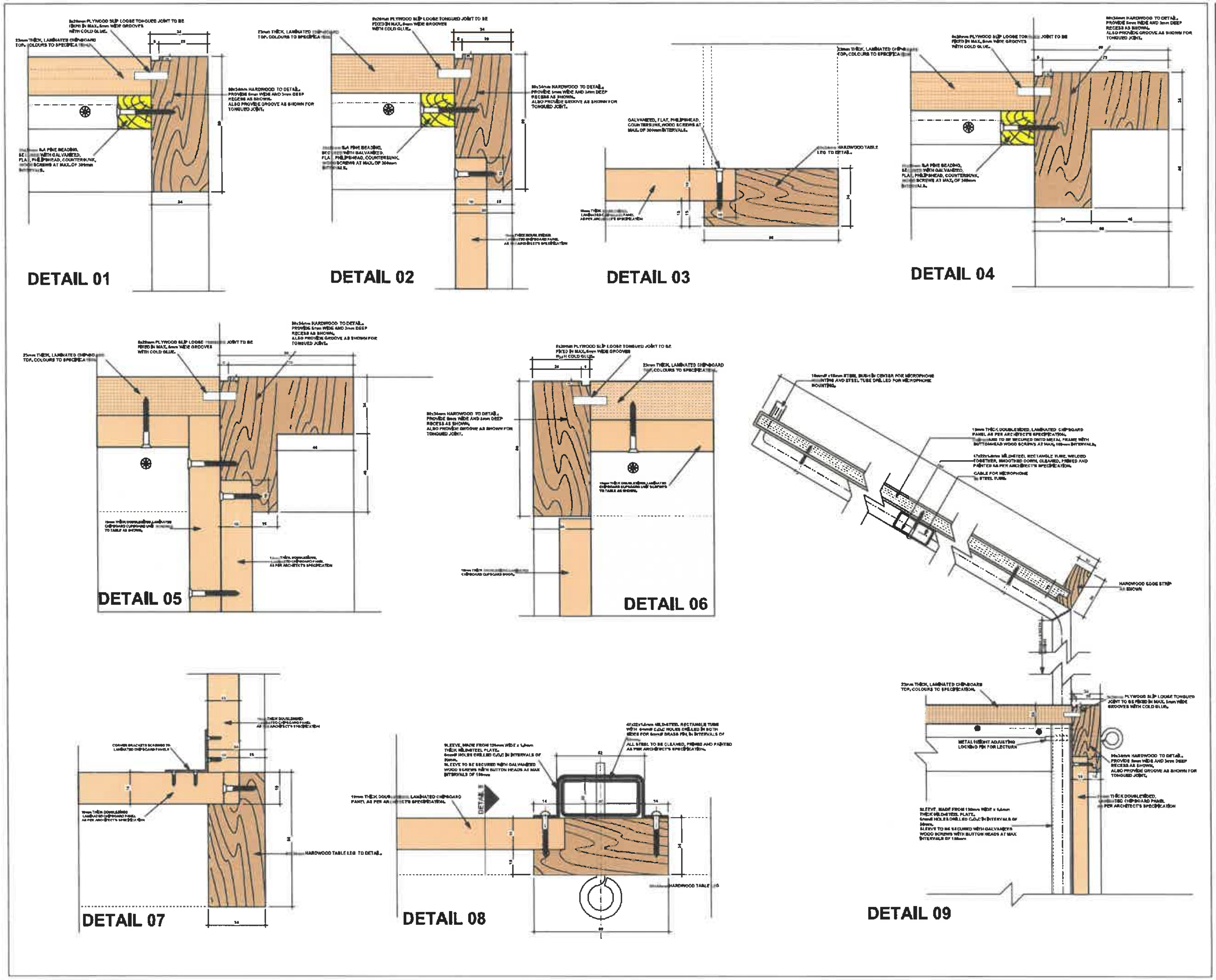
HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title:

COURT 1 PUBLIC SECURITY BARRIER

ref.no	19/2/4/2/2/2374/19	designed	A. MCGREGOR
scale	1:20	drawn	A. MCGREGOR
date	JAN 2022	checked	A. MCGREGOR
type number			
drawing number	1308-010		



NO.	DATE	AMENDMENT	D.F.W.

cad file name
VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
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DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asculth McGregor Design Studio CC
A.McGregor Pr Arch MArch 1999/036356/23

discipline
ARCHITECTURE

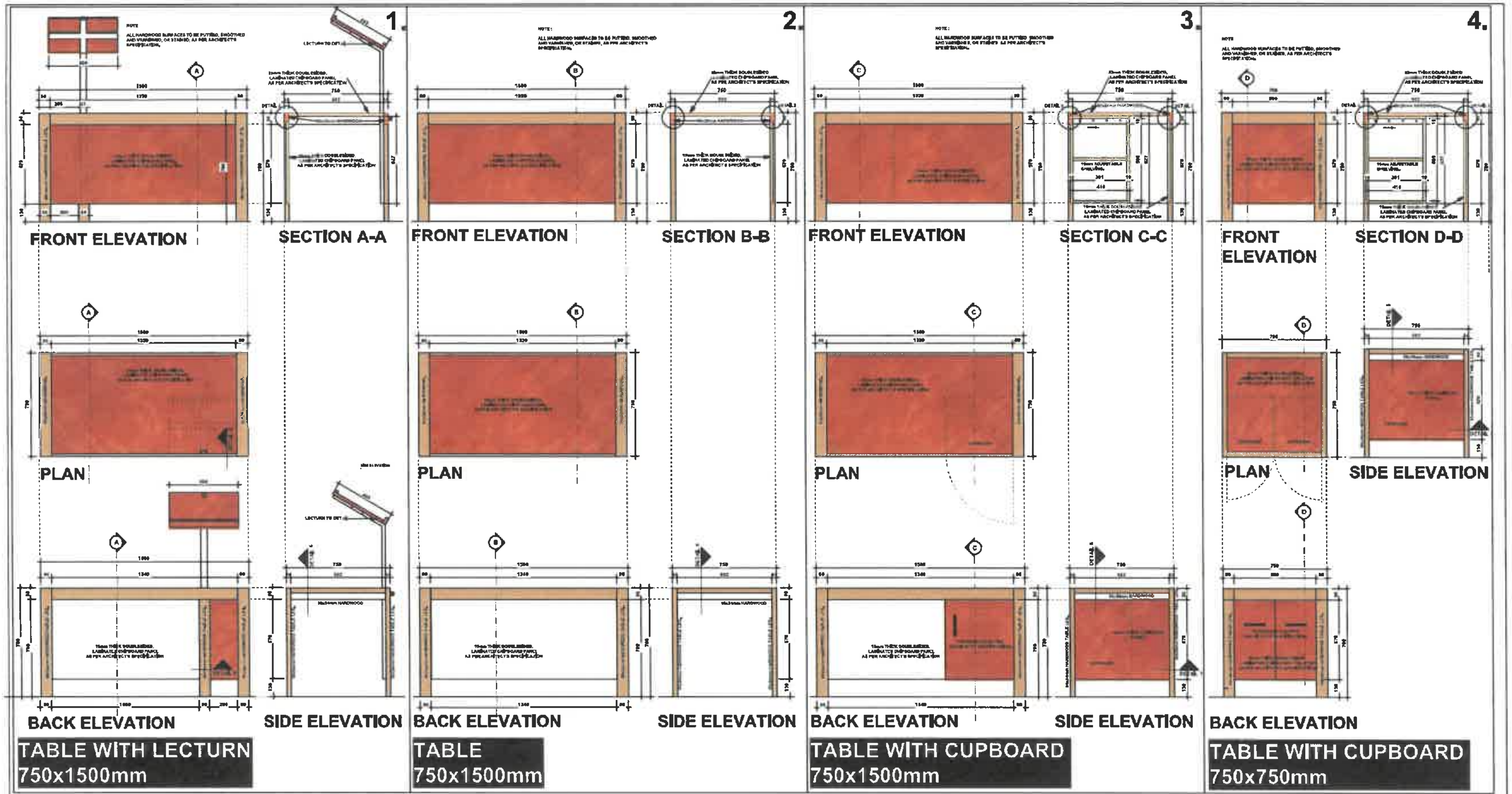
service

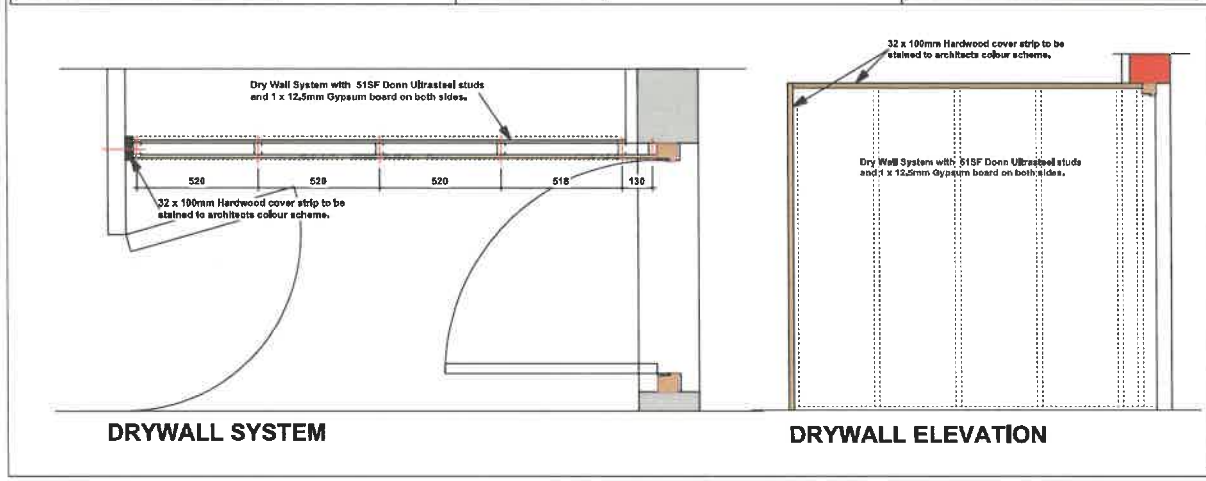
HANOVER MAGISTRATE'S OFFICE

WCS number
055335

drawing title
COURT FURNITURE DETAILS OFFICE COMPLEX

ref.no	19/2/4/2/2/2374/10	designed	A. MCGREGOR
scale	1:1 & 1:2	drawn	A. MCGREGOR
date	JULY 2021	checked	A. MCGREGOR
type number			
drawing number	1308-009		





DRYWALL RHINOBOARD NOTE:

CUTTING:

FIXING:

FIRE PROTECTION:

REPAIR:

BOARD COLOUR:

FINISHING:

BOARD TYPES:

PLASTERING:

JOINTING:

DECORATION:

CAVITYBATT INSULATION NOTE:

NO.	DATE	AMENDMENT	D.P.W.

Copyright vests in the Department of Public Works

cad file name
VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
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ADV. SAM VUKELA

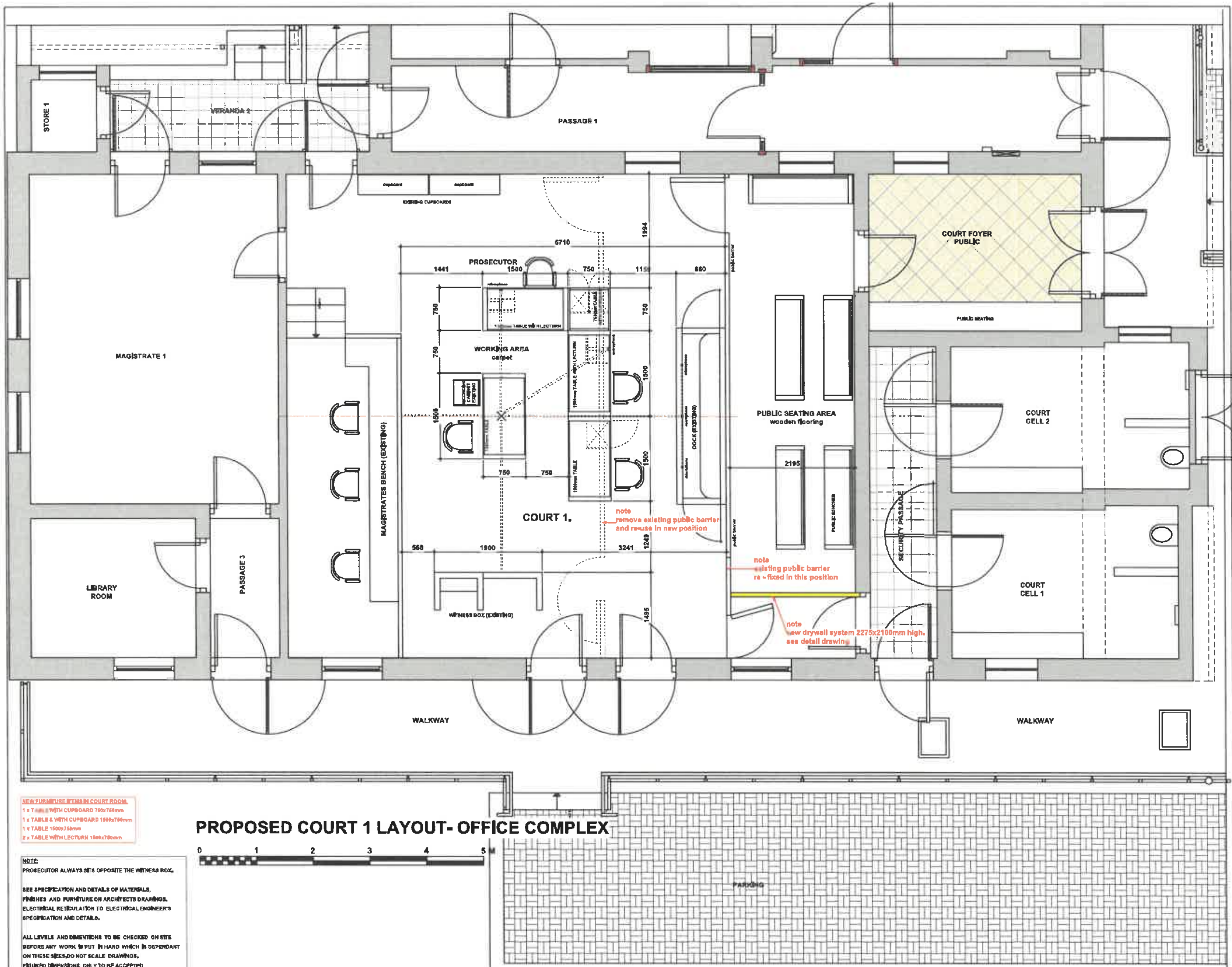
consultant/departmental
Asquith McGregor Design Studio CC
discipline
ARCHITECTURE

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: COURT FURNITURE & DRYWALL OFFICE COMPLEX

ref.no	10/2/4/2/2/2374/16	designed	A. MCGREGOR
scale	1:5 & 1:10	drawn	A. MCGREGOR
date	JULY 2021	checked	A. MCGREGOR
type number			
drawing number	1308-008		



NEW FURNITURE ITEMS IN COURT ROOM:
1 x TABLE WITH CUPBOARD 750x750mm
1 x TABLE & WITH CUPBOARD 1500x750mm
1 x TABLE 1500x750mm
2 x TABLE WITH LECTURN 1500x750mm

PROPOSED COURT 1 LAYOUT- OFFICE COMPLEX

0 1 2 3 4 5 M

NOTE:
PROSECUTOR ALWAYS SITS OPPOSITE THE WITNESS BOX.

SEE SPECIFICATION AND DETAILS OF MATERIALS,
FINISHES AND FURNITURE ON ARCHITECTS DRAWINGS.
ELECTRICAL RETICULATION TO ELECTRICAL ENGINEER'S
SPECIFICATION AND DETAILS.

ALL LEVELS AND DIMENTIONS TO BE CHECKED ON SITE
BEFORE ANY WORK IS PUT IN HAND WHICH IS DEPENDANT
ON THESE SIZES.DO NOT SCALE DRAWINGS.
FIGURED DIMENSIONS ONLY TO BE ACCEPTED
AND OVERALL DIMENSIONS TO TAKE PRECEDENCE.

DARLING STREET

NO.	DATE	AMENDMENT	D.P.W.

cad file name
VECTORWORKS DRAWING

public works & infrastructure
Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A. McGregor Pr Arch [illegible] 1999/036366/23

discipline
ARCHITECTURE

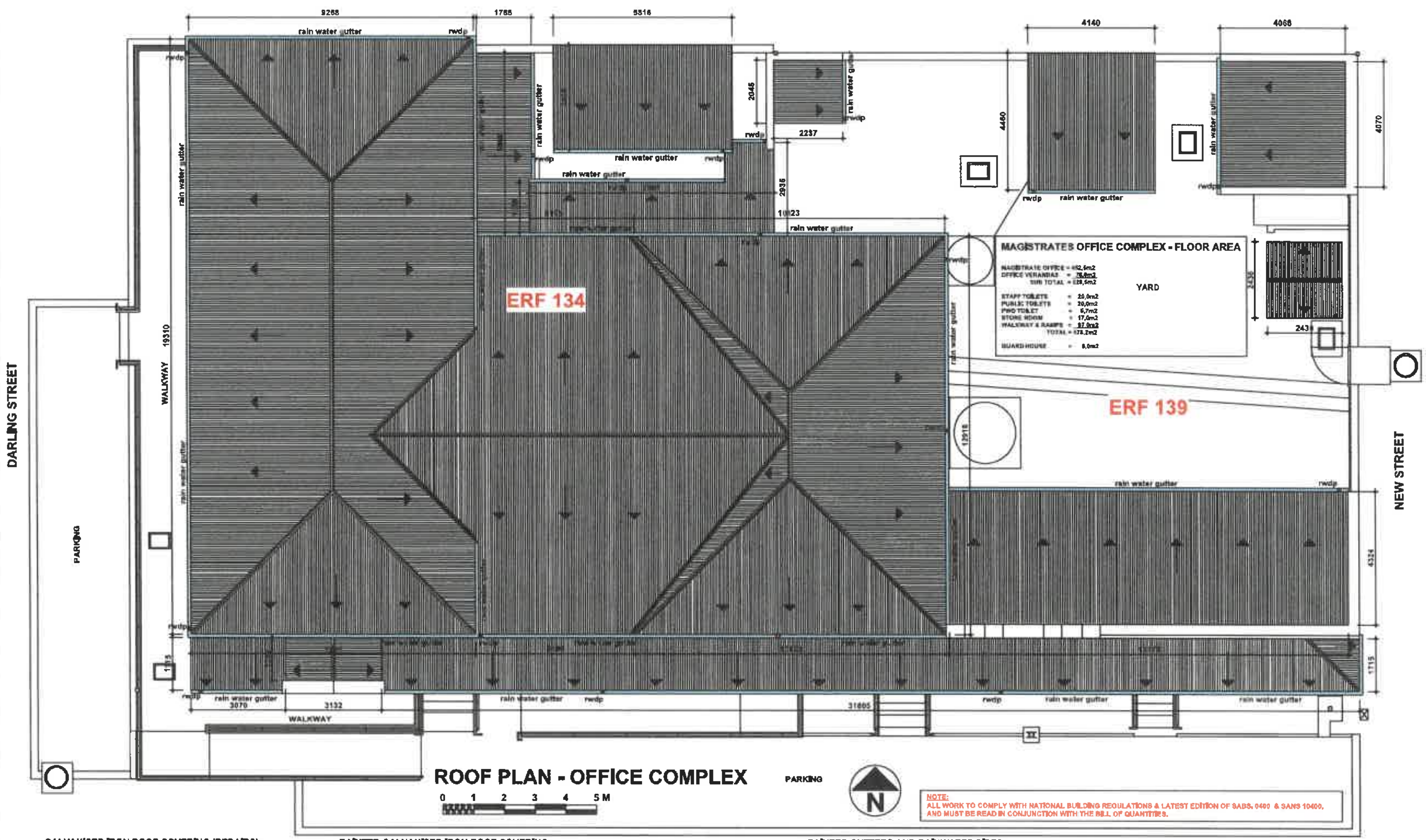
service

HANOVER MAGISTRATE'S OFFICE

WCS number 055335

drawing title
COURT 1 LAYOUT
OFFICE COMPLEX

ref.no 15/2/4/2/2/2374/10
scale 1:30
date JUNE 2021
designed A. MCGREGOR
drawn A. MCGREGOR
checked A. MCGREGOR
type number
drawing number 1308-008



ROOF PLAN - OFFICE COMPLEX

0 1 2 3 4 5 M

PARKING

N

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

GALVANISED IRON ROOF COVERING (REPAIRS):

Carefully examine entire roof areas and locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings. Locate holes and solder. Replace defective screws using longer screws as "Reseal" as SABS Specification 135 where purlins are fixed on edge, and 6mm bolts where purlins are fixed on flat. Beat into corrugations damaged or buckled edges, fix in position where necessary using self-tapping screws, roofing screws or verandah bolts. Similarly examine all flashing, ridging and valley linings, repair and refix loose sections, as for roof covering.

No plastic or other compounds are to be used to render leaks watertight.

FASCIA BOARDS (REPLACE WITH NEW):

Neatly cut fascia boards as required, take down and remove from site. Provide and fix new fascia boards to match existing.

RE-FIXING OF WOODWORK:

Examine all woodwork such as fascia and barge boards, eaves coverings and cover strips and all other woodwork fixed to walls and securely refix in their original positions using new plugs, longer screws, etc.

PAINTED GALVANISED IRON ROOF COVERING:

Strip roof paint completely back to a sound bare galvanised iron.
Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal.
To remove dirt, salts and zinc corrosion (white rust) clean thoroughly with Galvanised Iron Cleaner achieving a water-break free surface.
For sound surfaces scrub the area with Sugar Soap/water solution. Clean with high pressure water jet to remove Sugar Soap residue and other surface contaminates.
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.

GALVANISED IRON ROOF (PAINT UNDERNEATH WHERE EXPOSED):

Degrease with an approved detergent or solvent, apply two coats of approved primer and one coat approved roofing paint. Existing painted surfaces are to be cleaned and painted one coat approved roofing paint, all as specified.

UNDERSIDE OF CORRUGATED IRON ROOF COVERING PAINT IN BAD CONDITION):

Strip roof paint completely back to a sound bare galvanised iron.
Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal.
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.

PAINTED GUTTERS AND RAINWATER PIPES:

Clean down and remove existing paint coating completely. Rub down and paint:
GUTTERS OUTSIDE:
Apply two full coats of Galvanised Iron Primer to all exposed galvanised iron, overcoat within 48 hours with 2 coats of Roofguard paint.
GUTTERS INSIDE: Clean and paint one coat bituminous paint

PAINTED WOODEN FASCIA AND BARGE BOARDS:

Remove paint coating back to bare surface. Knot and stop, etc., and paint one primer coat, two undercoats and one coat high-gloss paint.

PAINTED FIBRE CEMENT FASCIA AND BARGE BOARDS WITH PAINT :

Remove paint coating back to bare surface. Rub down to a smooth surface, treat with approved bonding liquid, paint nail heads with flat paint and paint surfaces two coats approved Roofguard paint..

SPROCKETS INCLUDING BOTTOM PURLIN (PAINTED):

Rub down, clean and paint one undercoat and one coat high-gloss paint.

PAINTED VERANDAH ROOF WOODWORK:

Remove paint coating back to bare surface and rub down. Clean, knot, stop and paint one primer coat two undercoats and one coat high-gloss paint.

NO.	DATE	AMENDMENT	D.A.W.

cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A.McGregor Pr Arch 1996/036356/23

discipline: ARCHITECTURE

service:

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title:

ROOF PLAN OFFICE COMPLEX

ref.no 10/2/4/2/2/3374/10	designed A. MCGREGOR
scale 1:55	drawn A. MCGREGOR
date JUNE 2021	checked A. MCGREGOR
type number	
drawing number	1308-006

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

CEILING LAYOUT - OFFICE COMPLEX

0 1 2 3 4 5 M

MAGISTRATES OFFICE COMPLEX - FLOOR AREA

MAGISTRATE OFFICE	=	452,5m2
OFFICE VERANDAS	=	74,0m2
SUB TOTAL	=	526,5m2
STAFF TOILETS	=	28,0m2
PUBLIC TOILETS	=	20,0m2
PWD TOILET	=	6,7m2
STORE ROOM	=	17,0m2
WALKWAY & RAMPS	=	87,0m2
TOTAL	=	678,2m2
GUARD HOUSE	=	4,0m2

CEILING LEGEND

- EXISTING CEILINGS TO BE REPAIRED (HERITAGE) (120m2)
- EXISTING CONCRETE CEILINGS TO BE REPAIRED (44m2)
- EXISTING RHINOBOARD CEILINGS TO BE REPAIRED (23m2)
- PROPOSED NEW SUSPENDED CEILINGS (221m2)
- 1200x600mm RECESSED LIGHTFITTINGS (total=48)

CEILING HEIGHTS SUSPENDED CEILINGS

1. PUBLIC TOILETS = 2400mm
2. STAFF TOILETS = 2635mm
3. PWD TOILET = 2635mm
4. OFFICE COMPLEX = 3000mm

LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES. SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

CEILING SPECIFICATIONS

600X1200X12,5mm THICK GYPSUM VINYL CLAD (WHITE) CEILING TILES. TILES LAID IN T38 SUSPENDED TEE GRID SYSTEM (WHITE). MAIN TEES AT 1200mm CENTRES WITH T38(600) CROSS TEES. PROVIDE SM25 WALL ANGLES. THE GRID SYSTEM SUSPENDED FROM TIMBER TRUSSES WITH 4mm ROD SUSPENSION ADJUSTMENT SYSTEM. HOLD DOWN CLIPS MUST BE USED TO HOLD BOARDS FIRMLY IN POSITION. SEE BILL OF QUANTITIES

CONCRETE SLAB:

PAINT CONCRETE CEILING, (REDECORATE WITH EMULSION PAINT).
CLEAN, PREPARE FOR AND PAINT THE FRONTS AND UNDERSIDE OF SLABS AND EXPOSED SURFACES OF BEAMS WITH TWO COATS EMULSION PAINT.

CEILING SURFACES (REDECORATE):

STRIP OFF ALL FLAKED OR OTHERWISE DEFECTIVE PAINT FILM. PREPARE FOR AND PAINT ONE COAT BONDING LIQUID AND TWO COATS PAINT AS SPECIFIED.

NO.	DATE	AMENDMENT	D/A/M

cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A.McGregor Pr Arch Mitsch 1999/036356/23

discipline: ARCHITECTURE

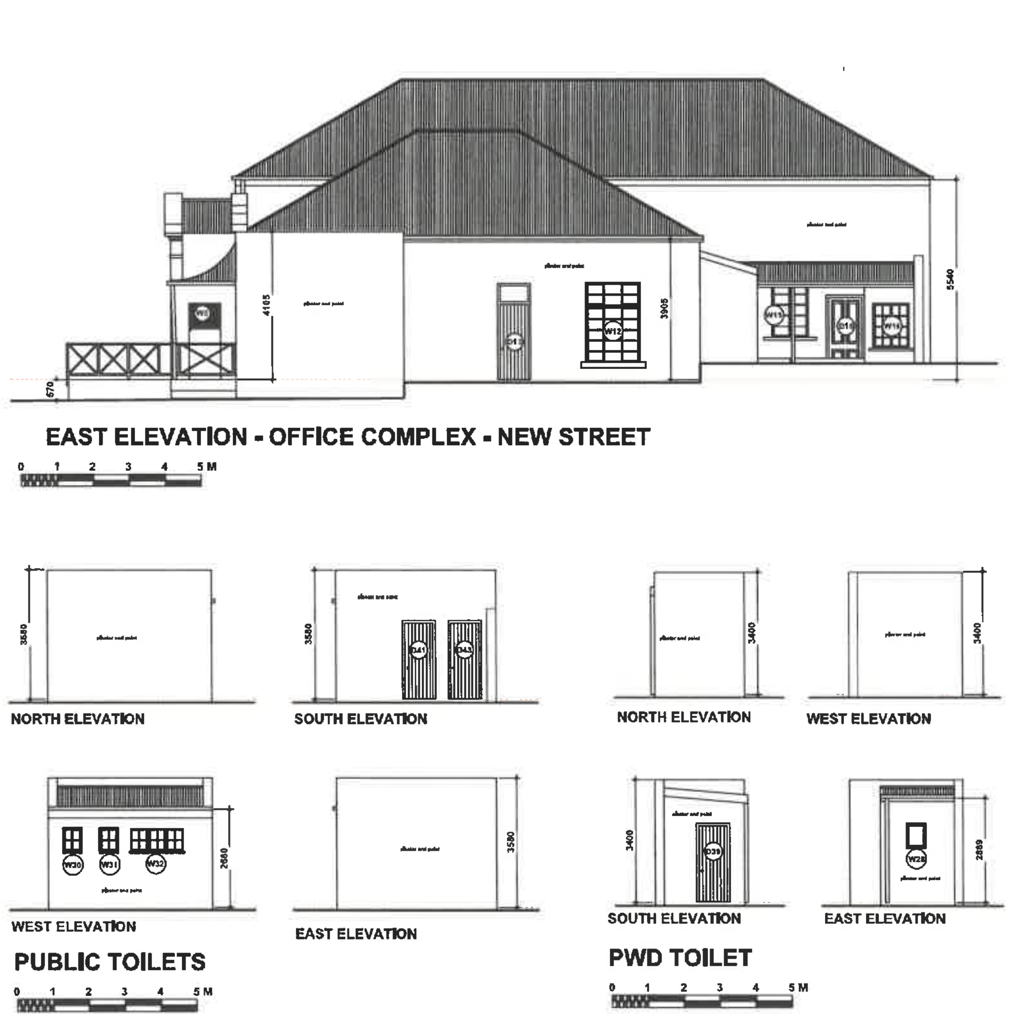
service:

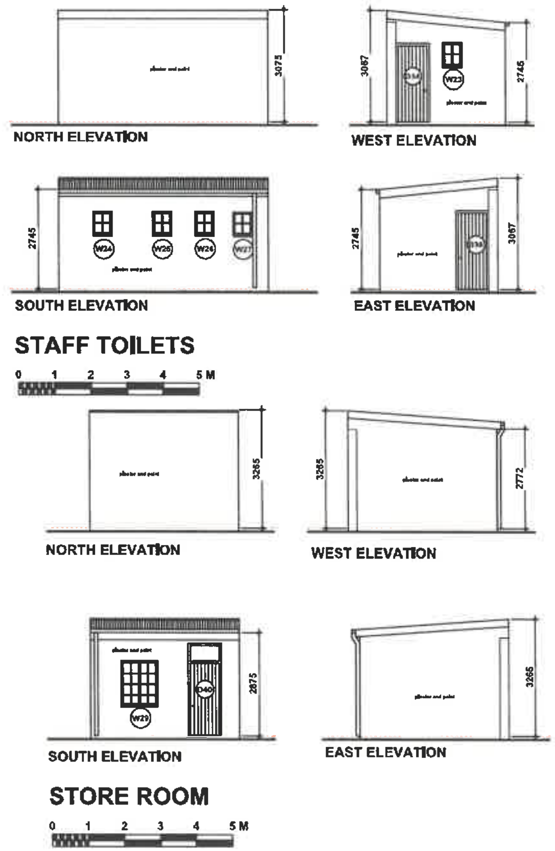
HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: CEILING LAYOUT OFFICE COMPLEX

ref.no	16/2/4/2/2/2374/10	designed	A. MCGREGOR
scale	1:66	drawn	A. MCGREGOR
date	JUNE 2021	checked	A. MCGREGOR
type number			
drawing number	1308-005		





LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES, SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

WALLS (INTERNAL & EXTERNAL):

BEAM FILLING (REPAIRS):
Hack out existing beam filling where needed and build in new beam filling.
Finish new brickwork with plaster as required or specified.

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:
Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers.
Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

HACK OFF AND RE-PLASTER (INTERIOR AND EXTERIOR):
Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork and replaster the surfaces with cement mortar, finished smooth and flush with adjoining surfaces to match existing.

REPAIR CRACKS IN WALLS:
Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster. Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Bird wire to be fixed to brickwork with 65mm galvanised nails staggered at a distance from each other 100mm. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

PAINTED WALL SURFACES WITH PAINT IN BAD CONDITION:
Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint.
One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions and two coats of the paint as specified in the bill of quantities.

DOORS AND WINDOWS:

ALL EXISTING DOORS AND WINDOWS:
See schedules and specification for work to be done.

GALVANISED IRON ROOF COVERING (REPAIRS AND PAINT):
See roof plan and specification for work to be done.

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS, 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

NO.	DATE	AMENDMENT	D.P.W.

cad file name
VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A. McGregor Pr Arch MArch 1999/036356/23

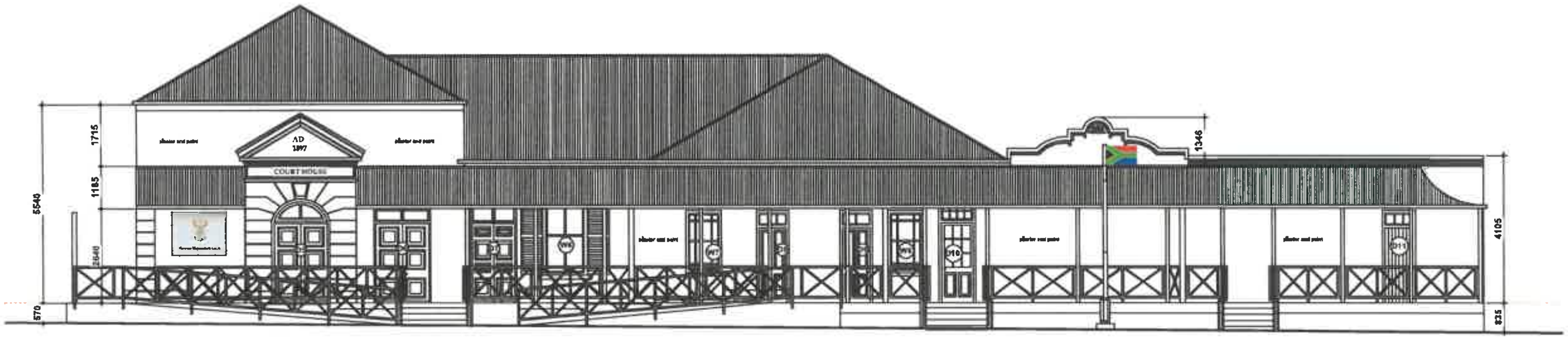
discipline
ARCHITECTURE

service
HANOVER MAGISTRATE'S OFFICE

WCS number 055335

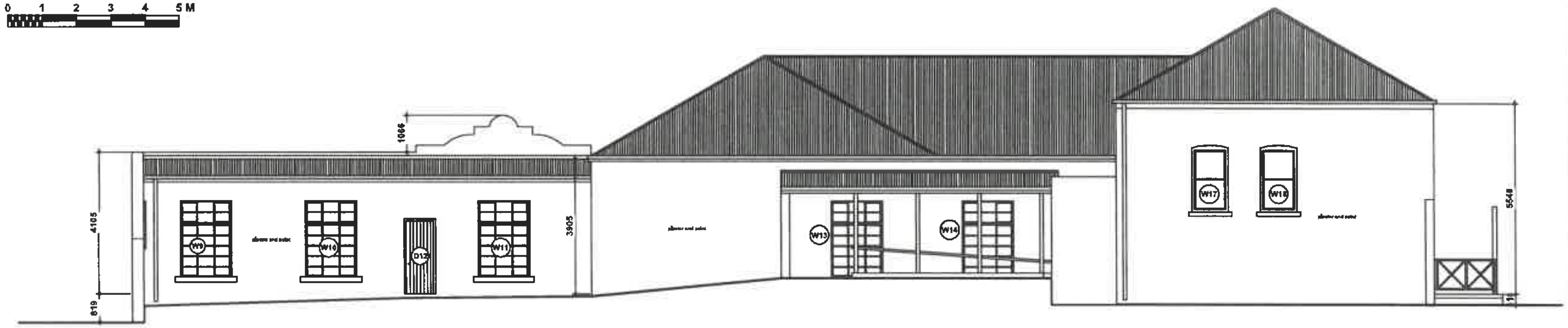
drawing title
ELEVATIONS 2 OFFICE COMPLEX

ref.no 19/2/4/2/2/2374/10
scale 1:66
date JUNE, 2021
type number
designed A. MCGREGOR
drawn A. MCGREGOR
checked A. MCGREGOR
drawing number **1308-004**



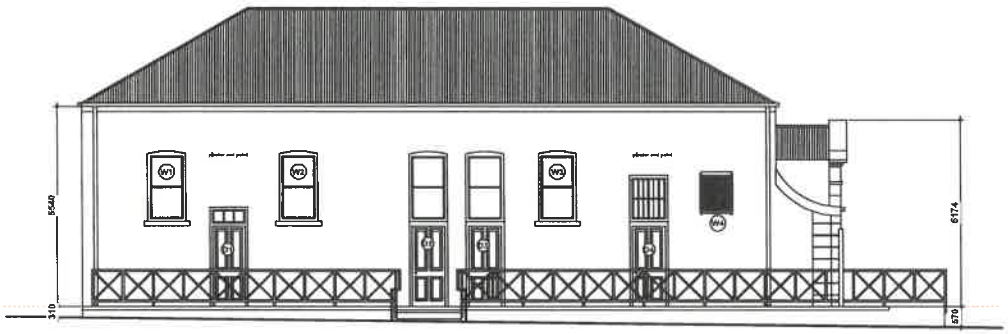
SOUTH ELEVATION - OFFICE COMPLEX - CHURCH STREET

0 1 2 3 4 5 M



NORTH ELEVATION - OFFICE COMPLEX

0 1 2 3 4 5 M



WEST ELEVATION - OFFICE COMPLEX - DARLING STREET

0 1 2 3 4 5 M

LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES. SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

WALLS (INTERNAL & EXTERNAL):

BEAM FILLING (REPAIRS):
Hack out existing beam filling where needed and build in new beam filling.
Finish new brickwork with plaster as required or specified.

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:
Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers.
Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

HACK OFF AND RE-PLASTER (INTERIOR AND EXTERIOR):
Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork and re-plaster the surfaces with cement mortar, finished smooth and flush with adjoining surfaces to match existing.

REPAIR CRACKS IN WALLS:
Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster. Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Bird wire to be fixed to brickwork with 50mm galvanised nails staggered at a distance from each other 100mm. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

PAINTED WALL SURFACES WITH PAINT IN BAD CONDITION:
Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint.
One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions and two coats of the paint as specified in the bill of quantities.

DOORS AND WINDOWS:

ALL EXISTING DOORS AND WINDOWS:
See schedules and specification for work to be done.

GALVANISED IRON ROOF COVERING (REPAIRS AND PAINT):
See roof plan and specification for work to be done.

NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

NO.	DATE	AMENDMENT	DPW

cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Acquilla McGregor Design Studio CC
A. McGregor Pr Arch

discipline: ARCHITECTURE

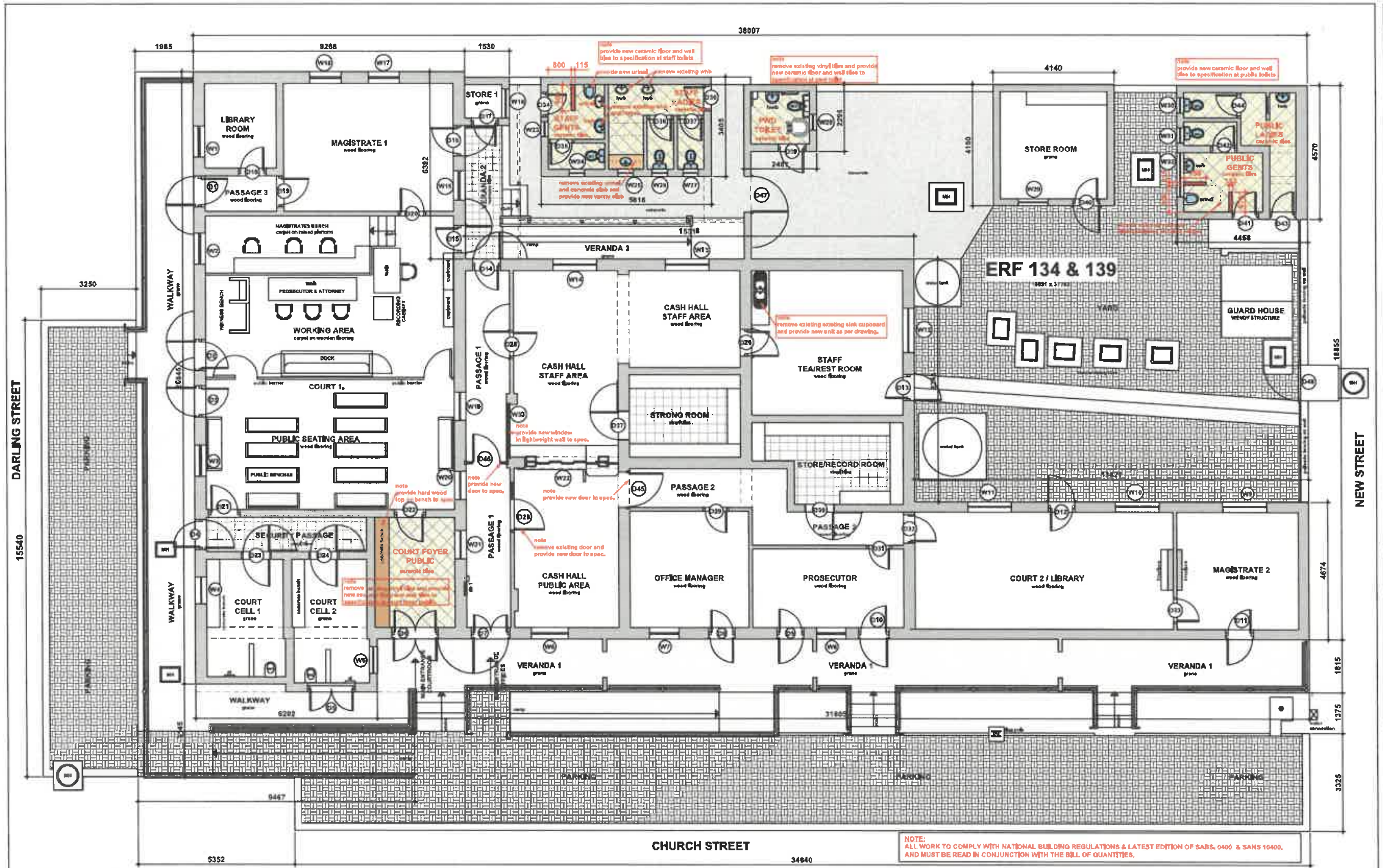
service

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: ELEVATIONS 1 OFFICE COMPLEX

ref.no	19/2/4/2/2/2374/18	designed	
scale	1:66	drawn	A. MCGREGOR
date	JUNE 2021	checked	A. MCGREGOR
type number			
drawing number	1308-003		



NOTE:
ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS & LATEST EDITION OF SABS. 0400 & SANS 10400, AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES.

GROUND FLOOR PLAN - OFFICE COMPLEX

0 1 2 3 4 5 M

MAGISTRATES OFFICE COMPLEX FLOOR AREA

MAGISTRATE OFFICE	=	452,5m2
OFFICE VERANDAS	=	[illegible]
SUB TOTAL	=	528,6m2
STAFF TOILETS	=	20,0m2
PUBLIC TOILETS	=	20,0m2
PWD TOILET	=	6,7m2
STORE ROOM	=	17,0m2
WALKWAY & RAMPS	=	87,0m2
TOTAL	=	[illegible]
GUARD HOUSE	=	8,0m2

LIST OF GENERAL WORK TO BE DONE:

THIS IS NOT A COMPREHENSIVE LIST OF THE WORK THAT MUST BE DONE AND MUST BE READ IN CONJUNCTION WITH THE BILL OF QUANTITIES. SPECIFICATIONS OF MATERIALS AND METHODS TO BE USED AS PER PW 371 (A & B).

CONCRETE SURFACE BEDS & FLOOR FINISH:

CRACKS IN CONCRETE FLOORS (REPAIRS):
Clean cracks out, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked.

REPAIR SURFACE BED (WITH FLOOR COVERING):
Remove the existing floor covering, hack up the defective concrete surface bed, provide and place filling in 150mm thick layers and consolidate up to the underside of the concrete floor slab. Provide and lay damp proof membrane below surface bed, to match the existing or similar. Sheeting shall be laid over the damaged sections well lapped and sealed in an approved manner, prior to the casting of new concrete surface bed.

Where the entire surface bed is to be replaced, the preparation shall be as above, except that the whole of the floor area shall be covered with a damp proof membrane as specified in clause 6.2 of DW 371. Cast a new concrete surface bed in Class C concrete in thicknesses to match existing surface beds or 75mm thick in cases where entire floor areas are to be cast. Finish off concrete surface beds with 3:1 cement screed of the thickness required but in no case less than 12mm thick. The screed shall be finished off with a wood float and steel trowel to a true, smooth and even surface, ready for the laying of floor tiles, mosaics or wood blocks, elsewhere specified.

EXISTING FLOOR FINISH (REPLACE):
Hack up existing vinyl and ceramic floor finish and remove rubble from site. Clean existing surface bed, prepare for and lay new screeding where needed in 3:1 cement mortar to a smooth and true surface and to required heights to suit existing floor levels. Cover the floors indicated on drawing with ceramic tiles as specified in bill of quantities.

SKIRTINGS AND ANGLE MOULDS:
Allow for removal of the existing skirtings and angle moulds where needed. New skirtings where needed to match existing, mitred at angles and securely fixed to plugs in walls, and at junctions of skirtings and floors, fix quadrant angle moulds, neatly mitred at angles, close fitted and securely fixed, to skirtings. Skirtings to be sanded and repainted.

WALLS (INTERNAL & EXTERNAL):

BEAM FILLING (REPAIRS):
Hack out existing beam filling where needed and build in new beam filling. Finish new brickwork with plaster as required or specified.

REMOVE GLAZED WALL TILES:
Hack off glazed wall tiling, including the cement backing thereto, to the areas where directed and remove rubble from site. Rake out joints of brickwork, prepare and repair plaster.

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:
Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers. Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

HACK OFF AND RE-PLASTER (INTERIOR AND EXTERIOR):
Remove all loose and defective plaster on walls as required, rake out joints to form a key for new plaster, well wet the bare brickwork and replaster the surfaces with cement mortar, finished smooth and flush with adjoining surfaces to match existing.

REPAIR CRACKS IN WALLS:
Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster. Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Bird wire to be fixed to brickwork with 65mm galvanised nails staggered at a distance from each other 100mm. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

PAINTED WALL SURFACES WITH PAINT IN BAD CONDITION:
Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint. One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions and two coats of the paint as specified in the bill of quantities.

DOORS AND WINDOWS:

ALL EXISTING DOORS AND WINDOWS.
See schedules for specification of work to be done.

CEILINGS:
See ceiling layout drawing and specification

COURT FURNITURE:
All wooden furniture and benches to be sanded down and stained to specification in bill of quantities.

FLOOR COVERINGS.

RE-SURFACING OF WOODEN FLOORS:

Punch down nails to strip flooring where necessary. Cut as required and prepare and lay new boards to match exiting. Level off boards to match existing.

Sandpaper floors with a sanding machine to a smooth and even surface in accordance with SABS Code of Practice 043-1973. Prepare floors and apply Polyurethane floor sealer. (4 coats)

RE-FIXING OF VINYL TILES OR SHEETING:

Take up loose and damaged tiles. Clean floor screeding and material and prepare for and re-lay to match existing. Allow for the supply and laying of broken or missing tiles to match existing.

NO.	DATE	AMENDMENT	D.P.W.

cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
discipline: ARCHITECTURE

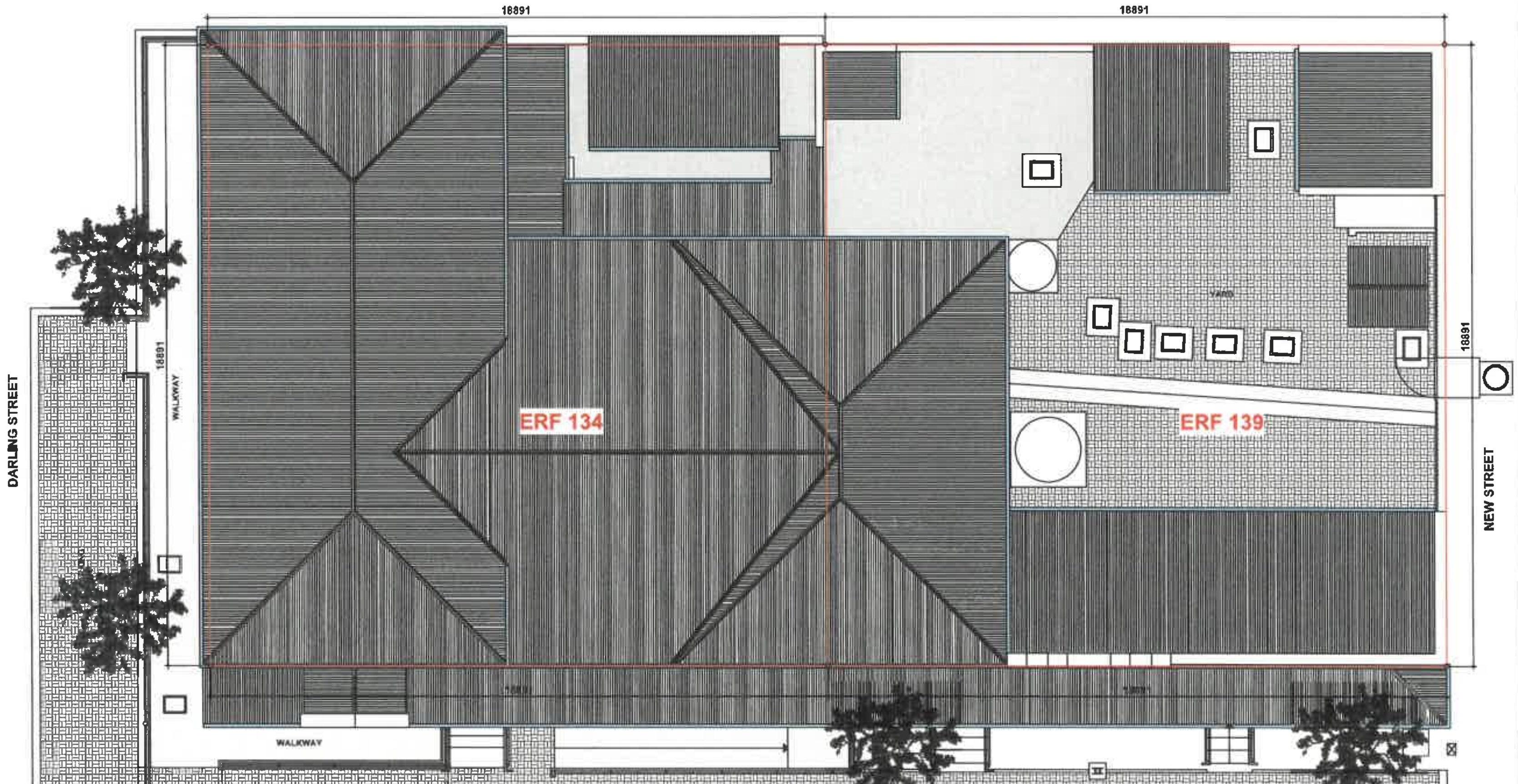
service:

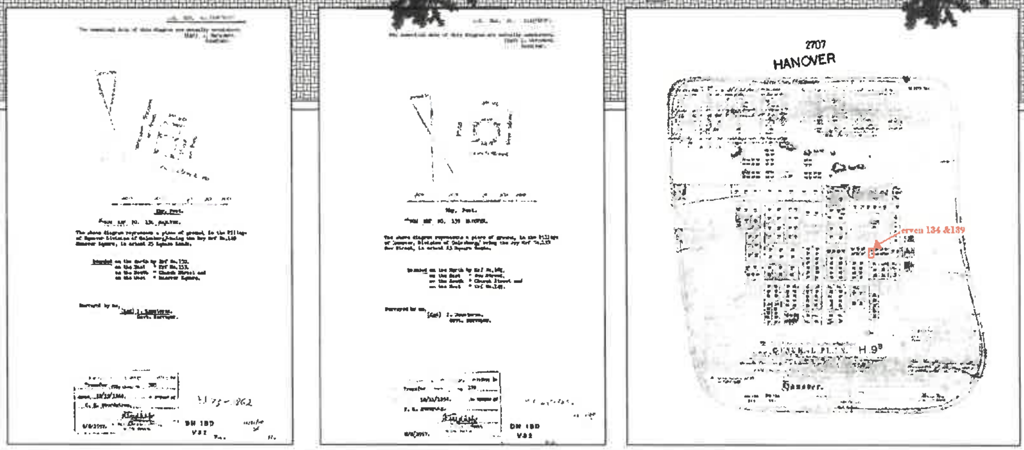
HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: GROUND FLOOR PLAN OFFICE COMPLEX

ref.no		designed	A. MCGREGOR
scale	1:...	drawn	A. MCGREGOR
date	JUNE 2021	checked	A. MCGREGOR
type number			
drawing number	1308-002		





SITE PLAN - OFFICE COMPLEX

0 1 2 3 4 5 M

Magistrates Court, Magistrates Office and Post

Magistrates Coun. Magistrates Office and Post Office. 1-5 Church Street. Hanover. Site Type. Building. Archive

Site Refrence : 9/2/035/0003

Magistrate's Court, Church Street, Hanover

Magistrate's Court. Church Street. Hanover. Site Type. Building. Archive Status. Registered. Decoration Type

Site Refrence : 9/2/035/0003-001

MAGISTRATES OFFICE COMPLEX FLOOR AREA

MAGISTRATE OFFICE	= 462,5m2
OFFICE VERANDAS	= 74,0m2
SUB TOTAL	= 528,5m2
STAFF TOILETS	= 20,0m2
PUBLIC TOILETS	= 20,0m2
PWD TOILET	= 6,7m2
STORE ROOM	= 17,0m2
WALKWAY & RAMPS	= 87,0m2
TOTAL	= 678,2m2
GUARD HOUSE	= 4,0m2

NO.	DATE	AMENDMENT	D/P/W

cad file name: VECTORWORKS DRAWING

public works & infrastructure
Department: Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
ADV. SAM VUKELA

consultant/departmental
Asquith McGregor Design Studio CC
A.McGregor Pr Arch MArch 1990/034356/23

discipline: ARCHITECTURE

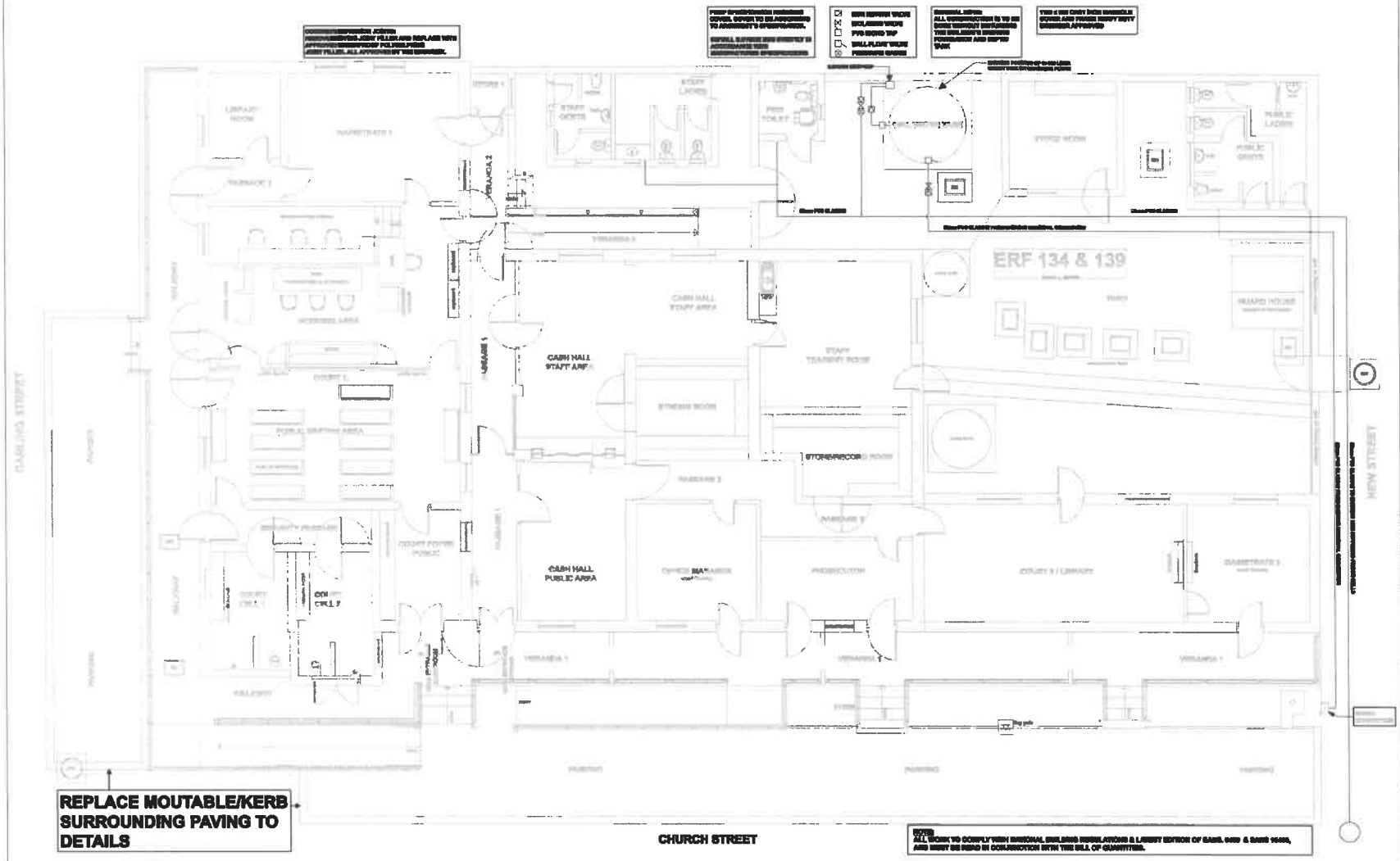
service:

HANOVER MAGISTRATE'S OFFICE

WCS number: 055335

drawing title: SITE PLAN OFFICE COMPLEX

ref.no	15/2/4/2/2/2374/10	designed	
scale	1:00	drawn	A. MCGREGOR
date	JUNE 2021	checked	A. MCGREGOR
type number			
drawing number	1308-001		



REVISIONS

HANOVER MAGISTRATE OFFICE
REPAIRS & RENOVATIONS
CIVIL ENG SERVICES

CIVIL AND STRUCTURAL REPAIRS
PLAN VIEW

1 : 100

JULY 2021

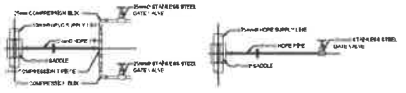
21YING/HNO/0253/XS-C&S-01 0

THE C.A.D. REFERENCE NUMBER IS:

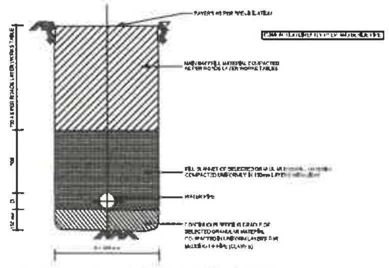
A1 SHEET

NOTES

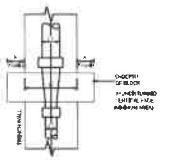
1. Drawings not be scaled.
2. All existing levels to be re-utilized.



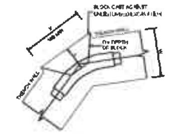
TYPICAL CONNECTION DETAILS
N.T.S.



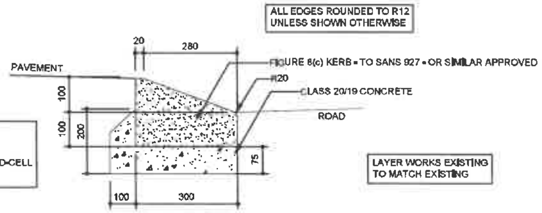
TYPICAL SECTION FOR WATER PIPE INSTALLATION
N.T.S.



THRUST BLOCK FOR REDUCER
TYPICAL DETAIL N.T.S.

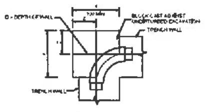


THRUST BLOCK FOR 45° BEND
TYPICAL DETAIL N.T.S.

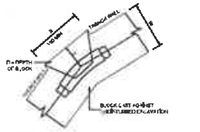


NOTE:
KERB TO BE JOINTED AT 1m INTERVALS
AND JOINTS TO BE FILLED WITH CLOSED-CELL
POLYETHYLENE JOINT FILLER

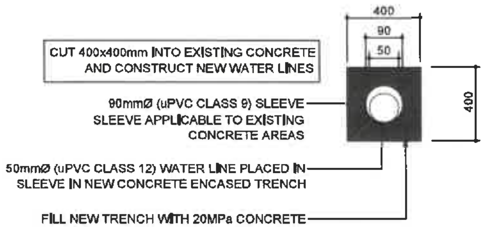
TYPICAL 300mm SLOPING KERB DETAIL
N.T.S.



THRUST BLOCK FOR 90° BEND
TYPICAL DETAIL N.T.S.



THRUST BLOCK FOR 22,5° AND 11,25° BEND
(X AND A TO BE HALVED FOR 11,25° BENDS)
TYPICAL DETAIL N.T.S.



TYPICAL WATER LINE ENCASEMENT DETAIL
N.T.S.

APPROVAL DRAWING

NR. NO	DATUM DATE	PARAF INITIALS	BESKRYWING DESCRIPTION

WYSIGINGS — REVISIONS

KONSULTANT — CONSULTANT: ngcali

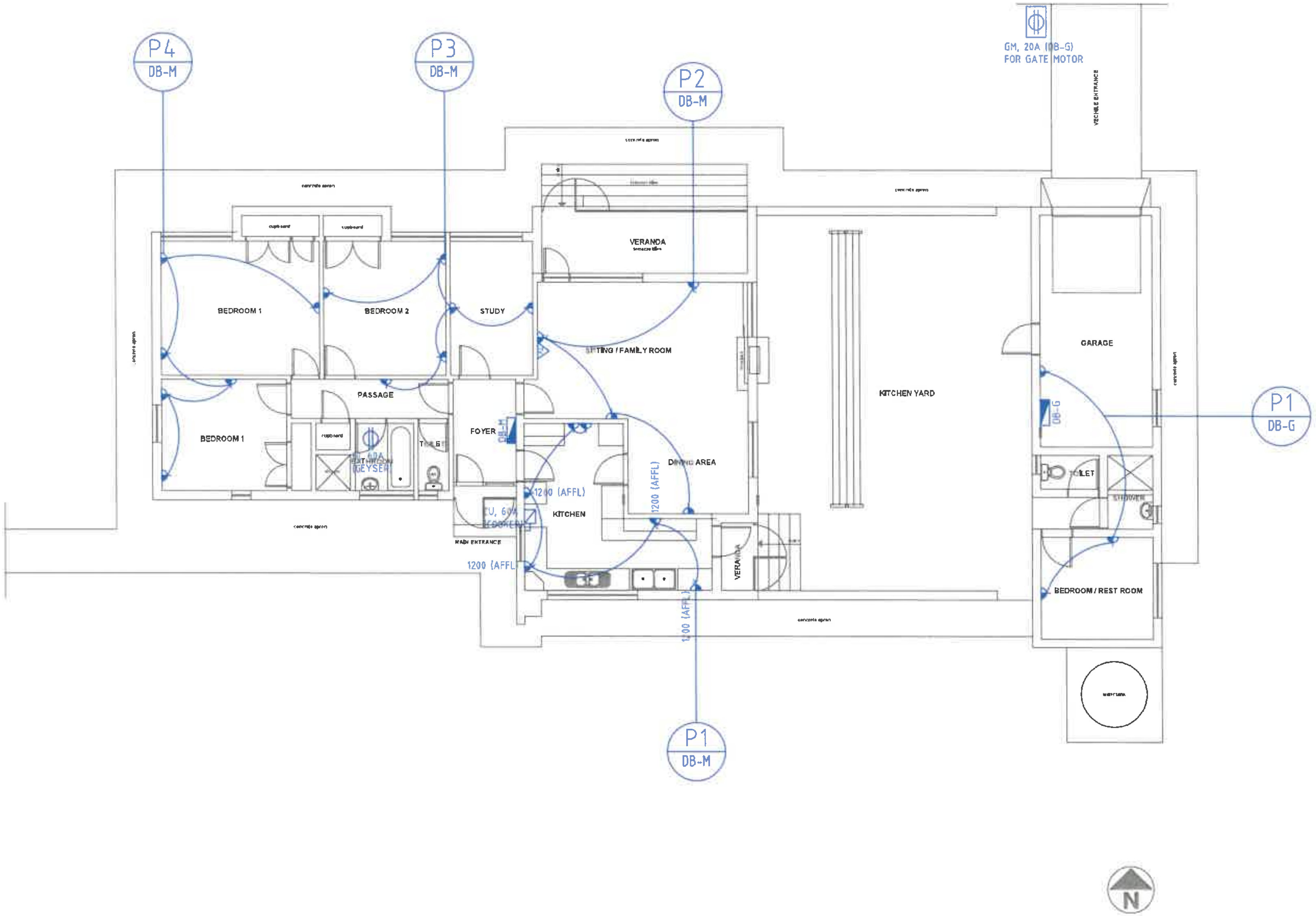
KLIENT — CLIENT: public works

PROJEK — PROJECT:
HANOVER MAGISTRATE'S OFFICE HERITAGE
REPAIRS AND RENOVATIONS
CIVIL ENGINEERING SERVICES

TITEL — TITLE:
CIVIL ANDS STRUCTURAL REPAIRS
TYPICAL DETAILS

AS SHOWN | WCS 056335
RP | RP
JULY 2021 | AEL

21/ING/HMO/0253/XS-C&S - 03 | 0



NOTE:

1. ALL OTHERWISE.WALL MOUNTED SOCKET OUTLETS TO BE 300MM AFFL UNLESS INDICATED
2. ALL LIGHT SWITCHES TO BE 1200mm AFFL UNLESS INDICATED OTHERWISE
3. POSITIONS OF HVAC ISOLATORS TO BE COORDINATED WITH THE MECHANICAL ENGINEER/ CONTRACTOR.

LEGEND

- COMBO SWITCHED SOCKET OUTLET WITH 16A ROUND AND 1 EURO
- DOUBLE SWITCHED SOCKET OUTLET
- DOUBLE POLE ISOLATOR
- DOUBLE POLE ISOLATOR IN WEATHER PROOF BOX
- ELECTRICAL DISTRIBUTION BOARD
- COOKER UNIT WITH NEON INDICATOR (220V)

Signing-on Stamp

Discipline	Name	PR No.	Signature	Date
Electrical	F Machiwenyika	20140453		

Rev. No.	Date	By	Amendment
00	15/08/2021	FM	Issued for Information
01	21/06/2022	FM	Issued for Tender

CLIENT

CONSULTANT

MMT CONSULTING ENGINEERS (PTY) LTD

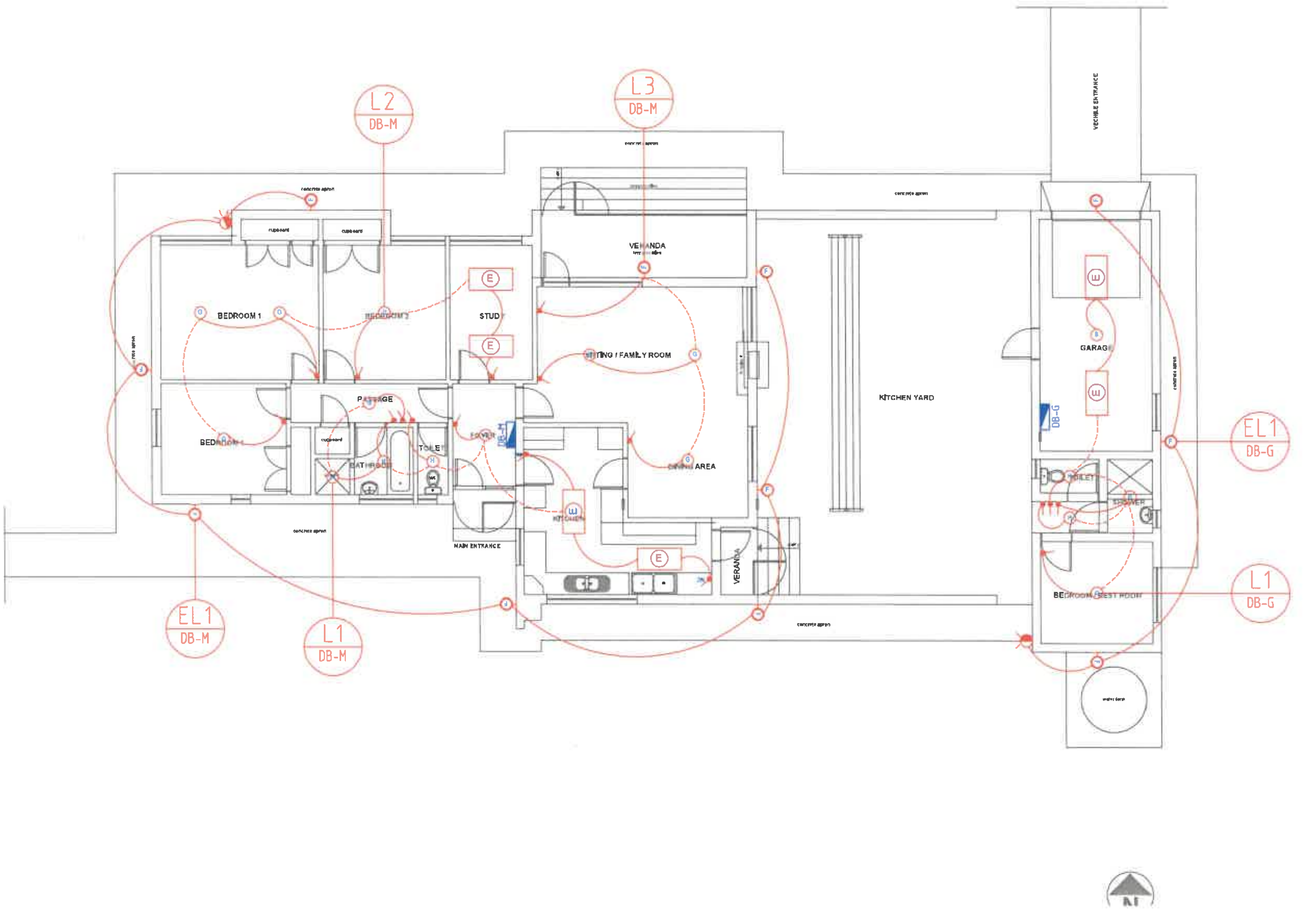
PROJECT

HANOVER MAGISTRATE'S RESIDENCE

DRAWING TITLE

MAGISTRATE'S RESIDENCE POWER LAYOUT

Date	AUGUST 2021	Designed	FM
Stage	TENDER	Drawn	OEG
Scale	1:80	Checked	FM
Size	A1	Revision	01
Client Department		Date	AUGUST 2021
Dwg No.		2108-EE01	
Issued for	TENDER		



NOTE:
1 ALL OTHERWISE.WALL MOUNTED SOCKET OUTLETS TO BE 300MM AFFL UNLESS INDICATED
2 ALL LIGHT SWITCHES TO BE 1200mm AFFL UNLESS INDICATED OTHERWISE
3 POSITIONS OF HVAC ISOLATORS TO BE COORDINATED WITH THE MECHANICAL ENGINEER/ CONTRACTOR.

LEGEND

- 70W LED PANEL LIGHT SURFACE MOUNTED
- 70W LED PANEL LIGHT RECESSED
- 18W LED DOWN LIGHT
- 17W LED BULKHEAD
- 100W LED HIGH BAY WITH ALUMINIUM DOME
- 9W LED WALL LIGHT WITH RED DIFFUSER (220V)
- 10W LED DOWN LIGHT
- 36W LED BATTEN (1200mm LONG)
- DUAL TECHNOLOGY OCCUPANCY SENSOR
- 1 LEVER ONE WAY LIGHT SWITCH
- 35W LED WALL MOUNTED FLOOD LIGHT WEATHER PROOF (TO REPLACE EXISTING WALL LIGHTING)
- VANDAL RESISTANT LIGHT FITTING SURFACE MOUNTED (TO REPLACE EXISTING IN CELLS)

Signing-on Stamp

Discipline	Name	PR No.	Signature	Date
Electrical	F Machiwanyika	20140453		

Rev. No.	Date	By	Amendment
00	25/08/2021	FM	Issued for Information
01	30/10/2021	FM	Issued for Information
02	21/09/2022	FM	Issued for Tender

CLIENT

CONSULTANT

MMT CONSULTING ENGINEERS (PTY) LTD

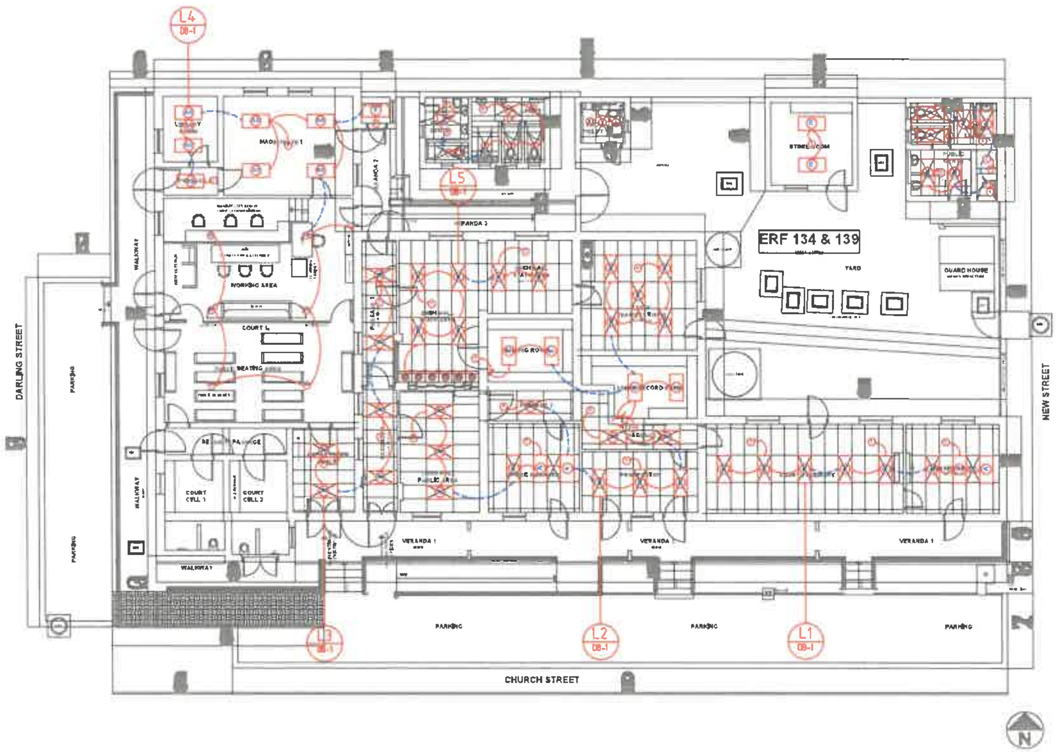
PROJECT

HANOVER MAGISTRATE'S OFFICE

DRAWING TITLE

MAGISTRATE'S RESIDENCE LIGHTING LAYOUT

Date	AUGUST 2021	Designed	FM
Stage	TENDER	Drawn	OEG
Scale	1:50	Checked	FM
Size	A1	Revision	02
Client Department		Date	AUGUST 2021
Dwg No			2106-EE02
Issued for	TENDER		



NOTE:
1 ALL OTHERWISE WALL MOUNTED SOCKET OUTLETS TO BE 300MM AFFL UNLESS INDICATED
2 ALL LIGHT SWITCHES TO BE 1200mm AFFL UNLESS INDICATED OTHERWISE
3 POSITIONS OF HVAC ISOLATORS TO BE COORDINATED WITH THE MECHANICAL ENGINEER/ CONTRACTOR.

LEGEND

Symbol	Description
(A)	70W LED PANEL LIGHT SURFACE MOUNTED
(A)	70W LED PANEL LIGHT RECESSED
(B)	18W LED DOWN LIGHT
(C)	17W LED BULKHEAD
(H)	100W LED HIGH BAY WITH ALUMINIUM DOME
(D)	9W LED WALL LIGHT WITH RED DIFFUSER (220V)
(E)	10W LED DOWN LIGHT
(E)	36W LED BATTEN (1200mm LONG)
(S)	DUAL TECHNOLOGY OCCUPANCY SENSOR
	1 LEVER ONE WAY LIGHT SWITCH
(W)	30W LED WALL MOUNTED FLOOD LIGHT WEATHER PROOF (TO REPLACE EXISTING WALL LIGHTING)
(V)	VANDAL RESISTANT LIGHT FITTING SURFACE MOUNTED (TO REPLACE EXISTING IN CELLS)

Signing-on Stamp

Discipline	Name	PR No.	Signature	Date
Electrical	F Machirwanyika	20140453		

Rev. No.	Date	By	Amendment
00	29/06/2021	RM	Issued for Information
01	30/10/2021	RM	Issued for Information
02	21/09/2022	RM	Issued for Tender

CLIENT

CONSULTANT

MMT
CONSULTING ENGINEERS (PTY) LTD

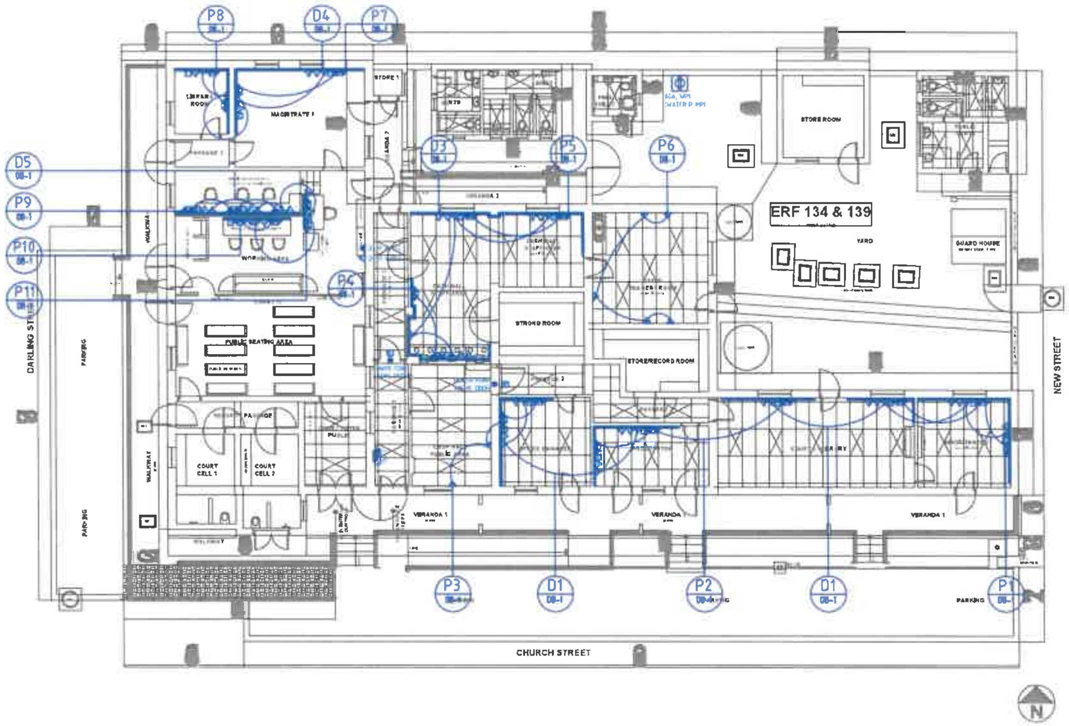
PROJECT

HANOVER
MAGISTRATE'S COURT

DRAWING TITLE

MAGISTRATE'S COURT
LIGHTING LAYOUT

Date	AUGUST 2021	Designed	RM
Stage	TENDER	Drawn	OEG
Scale	1:100	Checked	RM
Size	A1	Revision	02
Client Department		Date	AUGUST 2021
Dwg No.			2103-E290
Issued for	TENDER		



NOTE:

1. ALL OTHERWISE.WALL MOUNTED SOCKET OUTLETS TO BE 300MM AFFL UNLESS INDICATED
2. ALL LIGHT SWITCHES TO BE 1200mm AFFL UNLESS INDICATED OTHERWISE
3. POSITIONS OF HVAC ISOLATORS TO BE COORDINATED WITH THE MECHANICAL ENGINEER/ CONTRACTOR.

LEGEND

- 3 COMPARTMENT, 2 COVER POWER SKIRTING
- COMBO SWITCHED SOCKET OUTLET (1x16A 1xEURO)
- NORMAL DOUBLE SWITCHED SOCKET OUTLET
- DEDICATED SWITCHED SOCKET OUTLET (RED) ON POWER SKIRTING
- NORMAL SWITCHED SOCKET OUTLET ON POWER SKIRTING
- EURO-SOCKET OUTLET ON POWER SKIRTING
- ISOLATOR, DOUBLE POLE, IN WEATHER BOX
- TELEPHONE POINT
- DATA POINT
- TV POINT
- POWER POINT FOR DOOR MAGLOCK
- 300kg DOOR MAGLOCK COMPLETE BRACKETS
- ELECTRICAL DISTRIBUTION BOARD

Signing-on Stamp

Discipline	Name	PR No.	Signature	Date
Electrical	F Machswanyika	20140453		

Rev. No.	Date	By	Amendment
00	26/08/2021	FM	Issued for Information
01	30/10/2021	FM	Generator Removed
02	20/05/2022	FM	Issued for Tender

CLIENT

CONSULTANT

MMT CONSULTING ENGINEERS (PTY) LTD

PROJECT:

HANOVER MAGISTRATE'S COURT

DRAWING TITLE:

MAGISTRATE'S COURT POWER LAYOUT

Date	AUGUST 2021	Designed	FM
Stage	TENDER	Drawn	OEG
Scale	1:100	Checked	FM
Size	A1	Revision	02
Client Department		Date	AUGUST 2021
Dwg No.		2108-E05M	
Issued for	TENDER		

ELECTRICAL

INSTALLATION SPECIFICATION

FOR

HANOVER: MAGISTRATE OFFICE HERITAGE: REPAIRS AND RENOVATIONS: ELECTRICAL ENGINEERING SERVICES

WCS: 055335

Prepared for:	Prepared by:
public works Department: Public Works REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS PRIVATE BAG X229 PRETORIA 0001	MMT CONSULTING ENGINEERS (PTY) LTD. MMT CONSULTING ENGINEERS P.O. BOX 68383 BRYANSTON JOHANNESBURG 2021.

SEPTEMBER 2022

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PART 2: INSTALLATION DETAILS 12

NOTICE TO TENDERERS

1. The tenderer for the principal contract shall submit additional information regarding the installer of the Electrical Installation together with the returnables enclosed with the tender enquiry documents

SPECIFICATION FOR ELECTRICAL WORKS

PART 1 - GENERAL

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3 REGULATIONS 4
4 NOTICES AND FEES 4
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6 QUALITY OF MATERIALS 4
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10 CONDUIT IN CONCRETE SLABS 6
11 FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC. 7
12 WIRING: 7
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PART 1 - GENERAL

1 TESTS

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2 MAINTENANCE OF INSTALLATIONS

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installations is not in working order for any reason for which the Contractor is responsible, or if the installations develops defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative/Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative/Agent or the Director-General.

3 REGULATIONS

The installation shall be erected and tested in accordance with the SANS Regulations.

4 NOTICES AND FEES

The Contractor shall give all notices required by and pay all necessary fees, including any inspection fees, which may be due to the local Supply Authority.

On production of the official account, only the net amount of the fee charged by the Supply Authority for connection of the installation to the supply mains will be refunded to the Contractor by the Client.

5 SCHEDULE OF FITTINGS

In all instances where schedule of light, socket outlet and power points are attached to or included on the drawings, these schedules are to be regarded as forming part of the specification.

6 QUALITY OF MATERIALS

Only materials of first-class quality shall be used and all materials shall be subject to the approval of the Principal Agent/Client.

Wherever applicable the material is to comply with the relevant SANS standards, specifications, or to British Standard Specifications, where no SABS Specifications exist.

Materials wherever possible, must be of South African manufacture.

7 CONDUIT AND ACCESSORIES

The type of conduit and accessories required for the service, i.e. whether the conduit and accessories shall be of the screwed type, plain-end type or of the non-metallic type and whether metallic conduit shall be galvanised, is specified in Part 2 of this specification.

Unless other methods of installation are specified for certain circuits, the installation shall be in conduit throughout. No open wiring in roof spaces or elsewhere will be permitted.

The conduit and conduit accessories shall comply fully with the applicable SABS specifications as set out below and the conduit shall bear the mark of approval of the South African Bureau of Standards.

a) Screwed metallic conduit and accessories: SANS 1065, parts 1 and 2.

b) Plain-end metallic conduit and accessories: SANS 1065, parts 1 and 2.

c) Non-metallic conduit and accessories: SANS 950

All conduit fittings except couplings, shall be of the inspection type. Where cast metal conduit accessories are used, these shall be of malleable iron. Zinc base fittings will not be allowed.

Bushes used for metallic conduit shall be brass and shall be provided in addition to locknuts at all points where the conduit terminates at switchboards, switchboxes, draw-boxes, etc.

Draw-boxes are to be provided in accordance with the "Wiring Code" and wherever necessary to facilitate easy wiring.

For light and socket outlet circuits, the conduit used shall have an external diameter of 20mm. In all other instances the sizes of conduit shall be in accordance with the "Wiring Code" for the specified number and size of conductors, unless otherwise directed in part 2 of this specification or indicated on the drawings.

Only one manufactured type of conduit and conduit accessories will be permitted throughout the installation.

Running joints in screwed conduit are to be avoided as far as possible and all conduit systems shall be set or bent to the required angles. The use of normal bends must be kept to a minimum with exception of larger diameter conduits where the use of such bends is essential.

All metallic conduits shall be manufactured of mild steel with a minimum thickness of 1,2mm for plain-end conduit and 1,6mm in respect of screwed conduit.

Under no circumstances will conduit having a wall thickness of less than 1,6mm be allowed in screeding laid on top of concrete slabs.

Bending and setting of conduit must be done with special bending apparatus manufactured for the purpose and which are obtainable from the manufacturers of the conduit systems. Damage to conduit resulting from the use of incorrect bending apparatus or methods applied must on indication by the Client's inspectorate staff, be completely removed and rectified and any wiring already drawn into such damaged conduits must be completely renewed at the Contractor's expense.

Conduit and conduit accessories used for flame-proof or explosion proof installations and for the suspension of luminaires as well as all load bearing conduit shall in all instances be of the metallic screwed type.

Tenderers must ensure that general approval of the proposed conduit system to be used is obtained from the local electricity supply authority prior to the submission of their tender. Under no circumstances will consideration be given by the Client to any claim submitted by the Contractor, which may result from a lack of knowledge in regard to the supply authority's requirements.

8 CONDUIT IN ROOF SPACES

Conduit in roof spaces shall be installed parallel or at right angles to the roof members and shall be secured at intervals not exceeding 1,5m by means of saddles screwed to the roof timbers.

Nail or crampets will not be allowed.

Where non-metallic conduit has been specified for a particular service, the conduit shall be supported and fixed with saddles with a maximum spacing of 450 mm. The Contractor shall supply and install all

additional supporting timbers in the roof space as required.

Under flat roofs, in false ceilings or where there is less than 0,9m of clearance, or should the ceilings be insulated with glass wool or other insulating material, the conduit shall be installed in such a manner as to allow for all wiring to be executed from below the ceilings.

Conduit runs from distribution boards shall, where possible terminate in fabricated sheet steel draw-boxes installed directly above or in close proximity to the boards.

9 SURFACE MOUNTED CONDUIT

Wherever possible, the conduit installation is to be concealed in the building work; however, where unavoidable or otherwise specified under Part 2 of the specification, conduit installed on the surface must be plumbed or levelled and only straight lengths shall be used.

The use of inspection bends is to be avoided and instead the conduit shall be set uniformly, and inspection coupling used where necessary.

No threads will be permitted to show when the conduit installation is complete, except where running couplings have been employed.

Running couplings are only to be used where unavoidable and shall be fitted with a sliced couplings as a lock nut.

Conduit is to be run on approved spaced saddles rigidly secured to the walls.

Alternatively, fittings, tees, boxes, couplings etc., are to be cut into the surface to allow the conduit to fit flush against the surface. Conduit is to be bedded into any wall irregularities to avoid gaps between the surface and the conduit.

Crossing of conduits is to be avoided, however, should it be necessary purpose-made metal boxes are to be provided at the junction. The finish of the boxes and positioning shall be in keeping with the general layout.

Where several conduits are installed side by side, they shall be evenly spaced and grouped under one purpose-made saddle.

Distribution boards, draw-boxes, industrial switches, and socket outlets etc., shall be neatly recessed into the surface to avoid double sets.

In situations where there are no ceilings the conduits are to be run along the wall plates and the beams.

Painting of surface conduit shall match the colour of the adjacent wall finishes.

Only approved plugging materials such as aluminium inserts, fibre plugs, plastic plugs, etc., and round-head screws shall be used for fixing saddles, switches, socket outlets, etc., to walls, wood plugs and the plugging in joints in brick walls are not acceptable.

10 CONDUIT IN CONCRETE SLABS

In order not to delay building operations the Contractor must ensure that all conduits and other electrical equipment which are to be cast in the concrete columns and slabs are installed in good time.

The Contractor shall have a representative in attendance at all times when the casting of concrete takes place.

Draw-boxes, expansion joint boxes and round conduit boxes are to be provided where necessary. Sharp bends of any nature will not be allowed in concrete slabs.

Draw and/or inspection boxes shall be grouped under one common cover plate and must preferable be

installed in passages or male toilets.

All boxes, etc., are to be securely fixed to the shuttering to prevent displacement when concrete is cast. The conduit shall be supported and secured at regular intervals and installed as close as possible to the neutral axis of concrete slabs and/or beams.

Before any concrete slabs are cast, all conduit droppers to switchboards shall be neatly spaced and rigidly fixed.

11 FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC.

Flexible tubing connections shall be of galvanised steel construction, and in damp situations of the plastic sheathed galvanised steel type. Other types may only be used subject to the prior approval of the Client's site electrical representative.

Connectors for coupling onto the flexible tubing shall be of the gland or screw-in types, manufactured of either brass or cadmium or zinc plated mild steel, and the connectors after having been fixed onto the tubing, shall be durable and mechanically sound.

Aluminium and zinc alloy connectors will not be acceptable.

12 WIRING:

Except where otherwise specified in Part 2 of this specification, wiring shall be carried out in conduit throughout. Only one circuit per conduit will be permitted.

No wiring shall be drawn into conduit until the conduit installation has been completed and all conduit ends provided with bushes. All conduits to be clear of moisture and debris before wiring is commenced.

Unless otherwise specified in Part 2 of this specification or indicated on the service drawings, the wiring of the installation shall be carried out in accordance with the "Wiring Code". Further to the requirements concerning the installation of earth conductors to certain light points as set out in the "Wiring Code", it is a specific requirement of this document that where plain-end metallic conduit or non-metallic conduit has been used, earth conductors must be provided and drawn into the conduit with the main conductors to all points, including all luminaires and switches throughout the installation.

Wiring for lighting circuits is to be carried out with 2,5mm² conductors and a 2,5mm²-earth conductor. For socket outlet circuits the wiring shall comprise 4mm² conductors and a 2,5mm²-earth conductor. In certain instances, as will be directed in Part 2 of this specification, the sizes of the aforementioned conductors may be increased for specified circuits. Sizes of conductors to be drawn into conduit in all other instances, such as feeders to distribution boards, power points etc., shall be as specified elsewhere in this specification or indicated on the drawings. Sizes of conductors not specified must be determined in accordance with the "Wiring Code".

The loop-in system shall be followed throughout, and no joints of any description will be permitted.

The wiring shall be done in PVC insulated 600/1000 V grade cable to SABS 150.

Where cable ends connect onto switches, luminaires etc., the end strands must be neatly and tightly twisted together and firmly secured. Cutting away of wire strands of any cable will not be allowed.

13 SWITCHES AND SOCKET OUTLETS

All light switches shall be installed at 1,4m above finished floor level and all socket outlets as directed in the Schedule of Fittings which forms part of this specification or alternatively the height of socket outlets may be indicated on the drawings.

14 SWITCHGEAR

Switchgear, which includes circuit breakers, iron-clad switches, interlocked switch-socket outlet units, contactors, time switches, etc., shall be equal and similar in quality to such brands as may be specified.

For uniform appearance of switchboards, only one approved make of each of the different classes of switchgear mentioned in the Quality Specifications shall be used throughout the installations.

15 SWITCHBOARDS/DISTRIBUTION BOARDS

All boards shall be in accordance with the types as specified, be constructed according to the detail or type drawings and must be approved by the Engineer/Client before installation.

In all instances where provision is to be made on boards for the supply authority's main switch and/or metering equipment the contractor must ensure that all requirements of the authorities concerned in this respect are met.

All outdoor distribution boards shall be weather and vermin proof and shall be mounted on a plinth and have brick work around it except in front of the doors. All out door distribution boards shall be made from CR12 metal.

Any construction or standard type aboard proposed, as an alternative to that specified must have the prior approval of the Client.

All busbars, wiring, terminals, etc., are to be adequately insulated and all wiring is to enter the switchgear from the back of the board. The switchgear shall be mounted within the boards to give a flush front panel. Cable and boxes and other ancillary equipment must be provided where required.

Clearly engraved labels are to be mounted on or below every switch. The working of the labels in English and Afrikaans, is to be according to the lay-out drawings or as directed by the Client's representative and must be confirmed on site. Flush mounted boards to be installed with the top of the board 2,0m above the finished floor level.

16 WORKMANSHIP AND STAFF

Except in the case of electrical installations supplied by a single-phase electricity supply at the point of supply, an accredited person shall exercise general control over all electrical installation work being carried out.

The workmanship shall be of the highest grade and to the satisfaction of the Client.

All inferior work shall, on indication by the Client's inspecting officers, immediately be removed and rectified by and at the expense of the Contractor.

17 CERTIFICATE OF COMPLIANCE

On completion of the service, a certificate of compliance must be issued to the Client's Representative/Agent in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).

18 EARTHING OF INSTALLATION

Main earthing

The type of main earthing must be as required by the supply authority if other than the Clients, and in any event as directed by the Client's representative, who may require additional earthing to meet test standards.

Where required an earth mat shall be provided, the minimum size, unless otherwise specified, being 1,0m x 1,0m and consisting of 4mm diameter hard-drawn bare copper wires at 250mm centres, brazed at all intersections.

Alternatively, or additionally earth rods or trench earths may be required as specified or directed by the Client's authorised representative.

Installations shall be effectively earthed in accordance with the "Wiring Code" and to the requirements of the supply authority. All earth conductors shall be stranded copper with or without green PVC installation.

Connection from the main earth bar on the main board must be made to the cold water main, the incoming service earth conductor, if any and the earth mat or other local electrode by means of 12mm x 1,60 mm solid copper strapping or 16 mm² stranded (not solid) bare copper wire or such conductor as the Client's representative may direct. Main earth copper strapping, where installed below 3m from ground level, must be run in 20 mm diameter conduit securely fixed to the walls.

All other hot and cold-water pipes shall be connected with 12mm x 0,8mm perforated for solid copper strapping (not conductors) to the nearest switchboard. The strapping shall be fixed to the pipework with brass nuts and bolts and against walls with brass screws at 150-mm centres. In all cases where metal water pipes, down pipes, flues, etc., are positioned within 1,6m of switchboards an earth connection consisting of copper strapping shall be installed between the pipework and the board. In vertical building ducts accommodating both metal water pipes and electrical cables, all the pipes shall be earthed at each distribution board.

Roofs, gutters and down pipes

Where service connections consist of overhead conductors, all metal parts of roofs, gutters and down pipes shall be earthed. One bare 10mm² copper conductor shall be installed over the full length of the ceiling void, fixed to the top purlin and connected to the main earth conductor and each switchboard. The roof and gutters shall be connected at 15m intervals to this conductor by means of 12mm X 0,8mm copper strapping (not conductors) and galvanised bolts and nuts. Self-tapping screws are not acceptable. Where service connections consist of underground supplies, the above requirements are not applicable.

Sub-distribution boards

A separate earth connection shall be supplied between the earth busbar in each sub-distribution board and the earth busbar in the Main Switchboard. These connections shall consist of bare or insulated stranded copper conductors installed along the same routes as the supply cables or in the same conduit as the supply conductors. Alternatively armoured cables with earth continuity conductors included in the armouring may be utilised where specified or approved.

Sub-circuits

The earth conductors of fall sub-circuits shall be connected to the earth busbar in the supply board in accordance with SANS 10142.

Ring Mains

Common earth conductors may be used where various circuits are installed in the same wire way in accordance with SANS 10142. In such instances the sizes of earth conductors shall be equivalent to that of the largest current carrying conductor installed in the wire way, alternatively the size of the conductor shall be as directed by the Engineer. Earth conductors for individual circuits branching from the ring main shall by connected to the common earth conductor with T-ferrules or soldered. The common earth shall not be broken.

Non-metallic Conduit

Where non-metallic conduit is specified or allowed, the installation shall comply with the Client's standard quality specification for "conduit and conduit accessories".

Standard copper earth conductors shall be installed in the conduits and fixed securely to all metal appliances and equipment, including metal switch boxes, socket-outlet boxes, draw-boxes, switchboards, luminaires, etc. The securing of earth conductors by means of self-threading screws will not be permitted.

Flexible Conduit

An earth conductor shall be installed in all non-metals flexible conduits. This earth conductor shall not be installed externally to the flexible conduit but within the conduit with the other conductors. The earth conductor shall be connected to the earth terminals at both ends of the circuit.

Connection

Under no circumstances shall any connection points, bolts, screws, etc., used for earthing be utilised for any other purpose. It will be the responsibility of the Contractor to supply and fit earth terminals or clamps on equipment and materials that must be earthed where these are not provided.

Unless earth conductors are connected to proper terminals, the end shall be tinned and lugged.

19 MOUNTING AND POSITIONING OF LUMINAIRES

The Contractor is to note that in the case of board and acoustic tile ceilings, i.e. as opposed to concrete slabs, close co-operation with the building contractor is necessary to ensure that as far as possible the luminaires are symmetrically positioned with regard to the ceiling pattern.

The layout of the luminaires as indicated on the drawings must be adhered to as far as possible and must be confirmed with the Client's representative.

Fluorescent luminaires installed against concrete ceilings shall be screwed to the outlet boxes and in addition 2 x 6mm expansion or other approved type fixing bolts are to be provided. The bolts are to be ¾ of the length of the luminaires apart.

Fluorescent luminaires to be mounted on board ceilings shall be secured by means of two 40mm x No. 10 round head screws and washers. The luminaires shall also be bonded to the circuit conduit by means of locknuts and brass bushes. The fixing screws are to be placed ¾ of the length of the fitting apart.

Earth conductors must be drawn in with the circuit wiring and connected to the earthing terminal of all fluorescent luminaires as well as other luminaires exposed to the weather in accordance with the "Wiring Code".

Incandescent luminaires are to be screwed directly to outlet boxes in concrete slabs. Against board ceilings the luminaires shall be secured to the brandering or joists by means of two 40mm x No. 8 round head screws.

PART 2: INSTALLATION DETAILS

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17. SCHEDULE OF DISTRIBUTION BOARDS 17

PART 2: INSTALLATION DETAILS

1 CABLE SLEEVE PIPES

Where cables cross under roadways, other services and where cables enter buildings, the cables shall be installed in asbestos-cement pipes, earthenware, or high-density polyethylene pipes.

The ends of all sleeves shall be sealed with a non-hardening watertight compound after the installation of cables. All sleeves intended for future use shall likewise be sealed.

2 NOTICES

The Contractor shall issue all notices and make the necessary arrangements with Supply Authorities, the Postmaster-General, and S.A. Transport Services, Provincial or National Road Authorities and other authorities as may be required with respect to the installation.

3 ELECTRICAL EQUIPMENT

All equipment and fittings supplied must be suitable for the relevant supply voltage and frequency and must be approved by the Client's representative.

4 DRAWINGS

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

The position of power points, switches and light points that may be influenced by built-in furniture must be established on site, prior to these items being built in.

5 BALANCING OF LOAD

The Contractor is required to balance the load as equally as possible over the multiphase supply.

6 SERVICE CONDITIONS

All plant shall be designed for the climatic conditions appertaining to the service.

7 SWITCHES AND SOCKET OUTLETS

The installation of switches and socket outlets must conform to clause 13 of Part 1 of this specification.

8 LIGHT FITTINGS AND LAMPS

The installation and mounting of luminaires must conform with clause 19 of Part 1 of this specification.

All fittings to be supplied by the Contractor shall have the approval of the Client. Incandescent lamps shall bear the approved mark of the S.A.B.S. and shall have the British light centre length.

The light fittings must be of the type specified in the Schedule of Light Fittings.

9 EARTHING AND BONDING

The Contractor will be responsible for all earthing and bonding of the building and installation. The earthing and bonding is to be carried out strictly as described in clause 18 of Part 1 of this specification and to the satisfaction of the Client's representative.

10 MAINTENANCE OF ELECTRICAL SUPPLY

All interruptions of the electrical supply, that may be necessary for the execution of the work, will be subject to prior arrangement between the Contractor and the user Client and the Client's representative.

11 EXTENT OF WORK

The work covered by this contract comprises the complete electrical installation, in working order, as shown on the drawings and as per this specification, including the supply and installation of all fittings and also the installation of such equipment supplied by the Client.

12 SUPPLY AND CONNECTION

The supply will be at 400/230 Volt 50Hz.

The Contractor will be responsible for the supply and installation of the supply cable from the meter box to the main low-tension distribution board (MDB). The size and length of the cable is listed and measured in the Bills of Quantities.

13 CONDUIT AND WIRING

Conduit and conduit accessories shall be galvanised screwed conduit or galvanised plain end conduit in accordance with SABS 162, 763 and 1007 respectively.

All conduits, regardless of the system employed, shall be installed strictly as described in the applicable paragraphs of clauses 4 to 8 of Part 1 of the specification. Wiring of the installation shall be carried out as directed in clause 9 part 1 of this specification.

Where plain end conduit is offered all switches and light fittings must be supplied with a permanent earth terminal for the connection of the earth wire.

Lugs held by switch fixing screws or self tapping screws will not be acceptable.

14 CABLES

The Contractor shall supply and completely install all distribution cables as indicated on the drawings and listed in the Schedule of Cables.

The storage, transportation, handling and laying of the cables shall be according to first class practice, and the contractor shall have adequate and suitable equipment and labour to ensure that no damage is done to cables during such operations.

The cable-trenches shall be excavated to a depth of 0,9m deep below ground level and shall be 450mm wide for one to three cables, and the width shall be increased where more than three cables are laid together so that the cables may be placed at least two cable diameters apart throughout the run. The bottom of the trench shall be level and clean and the bottom and sites free from rocks or stones liable to cause damage to the cable.

The Contractor must take all necessary precautions to prevent the trenching work being in any way a hazard to the personnel and public and to safeguard all structures, roads, sewage works or other property on the site from any risk of subsidence and damage.

In the trenches the cables shall be laid on a 75mm thick bed of earth and be covered with a 150-mm layer of earth before the trench is filled in.

All joints in underground cables and terminations shall be made either by means of compound filled boxes according to the best-established practice by competent cable jointers using first class materials or by means of approved epoxy-resin pressure type jointing kits such as "Scotchcast". Epoxy-resign joints must be made entirely in

accordance with the manufacturer's instructions and with materials stipulated in such instructions. Low tension PVCA cables are to be made off with sealing glands and materials designed for this purpose which must be of an approved make. Where cables are cut and not immediately made off, the ends are to be sealed without delay.

The laying of cables shall not be commenced until the trenches have been inspected and approved. The cable shall be removed from the drum in such a way that no twisting, tension or mechanical damage is caused and must be adequately supported at intervals during the whole operation. Particular care must be exercised where it is necessary to draw cables through pipes and ducts to avoid abrasion, elongation or distortion of any kind. The ends of such pipes and ducts shall be sealed to approval after drawing in of the cables.

Backfilling (after bedding) of the trenches is to be carried out with a proper grading of the material to ensure settling without voids, and the material is to be tamped down after the addition of every 150mm. The surface is to be made good as required.

On each completed section of the laid and jointed cable, the insulation resistance shall be tested to approval with an approved "Megger" type instrument of not less that 500 V for low tension cables.

Earth continuity conductors are to be run with all underground cables constituting part of a low-tension distribution system. Such continuity conductors are to be stranded bare copper of a cross-sectional area equal to at least half that of one of the live conductors of the cable but shall not be less than 2.5mm² or more than 70mm². A single earth wire may be used as earth continuity conductor for two or more cables run together, branch earth wires being brazed on where required.

14.1 LAYING, JOINTING AND MAKING OFF OF ELECTRICAL CABLES

[The requirements specified hereafter, are aimed essentially at high tension cable but are also valid for low tension cable, where applicable.]

1. The use of the term "Inspector" includes the engineer or inspector of the Client or an empowered person of the concerned supervising consulting engineer's firm.

2. No cable is to be laid before the cable trench is approved and the soil qualification of the excavation is agreed upon by the Contractor and inspector.

3. After the cable has been laid and before the cable trench is back-filled the inspector must ensure that the cable is properly bedded and that there is no undesirable material included in the bedding layer.

4. All cable jointing and the making off of the cables must only be carried out by qualified experienced cable jointers. Helpers of the jointers may not saw, strip, cut, solder, etc. The cable and other work undertaken by them must be carried out under the strict and constant supervision of the jointer.

5. Before the Contractor allows the jointer to commence with the jointing work or making off of the cable (making off is recognized as half a joint) he must take care and ensure:

5.1 that he has adequate and suitable material available to complete the joint properly and efficiently. Special attention must be given to ensure the cable ferrules and cable lugs are of tinned copper and of sufficient size. The length of the jointing lugs must be at least six times the diameter of the conductor,

5.2 that the joint pit is dry and that all loose stones and material are removed,

5.3 that the walls and banks of the joint pit are reasonable firm and free from loose material which can fall into the pit,

5.4 that the necessary cofferdams or retaining walls are made to stop the flow of water into the joint pit,

5.5 that the joint pit is provided with suitable groundsheets so that the jointing work is carried out in clean conditions,

5.6 that the necessary tents or sails are installed over the joint pit to effectively avert unexpected rainfall and that sufficient light or lighting is provided,

5.7 that the necessary means are available to efficiently seal the jointing or cable end when an unexpected storm or cloudburst occurs, regardless of how far the work has progressed,

5.8 that the cables and other materials are dry, undamaged and in all respects are suitable for the joint work or making off,

5.9 that the heating of cable oil, cable compound, plumbers' metal and solder is arranged that they are at the correct temperature when required so that the cable is not unnecessary exposed to the atmosphere and consequently the ingress of moisture (care must be taken of overheating)

Flow temperatures of cable oil and compound must be determined with suitable thermometers. Cable oil and compound must not be heated to exceed the temperatures given on the containers and precaution must be taken to ensure that the tin is not overheated in one position. The whole mass must be evenly and proportionally heated.

(Temperatures of solder and plumbers' metal may be tested with brown paper (testing time: 3 seconds). The paper must colour slightly - not black or burnt.

6. Before the paper-insulated cables are joined, they must be tested for the presence of moisture by the cable jointers test. This consists of the insertion of a piece of unhandled insulated impregnated paper tape in warm cable oil heated to a temperature of 130 ± 5°C.

Froth on the surface of the oil is an indication that moisture is present in the impregnated insulation and the amount of the froth gives an indication of the moisture present.

7. If the cable contains moisture or is found to be otherwise unsuitable for jointing or making of the inspector is to be notified immediately and he will issue the necessary instruction to cope with the situation.

8. The joint or making-off of paper insulated cables must not be commenced during rainy weather.

9. Once a joint is in progress the jointer must proceed with the joint until it is complete and before he leaves the site.

10. The jointer must ensure that the material and his tools are dry at all times, reasonably clean and absolutely free from soil.

11. Relating to the jointing of the cable the following requirements apply:

11.1 All jointing must be carried out in accordance with recognized and tried techniques and comply strictly with the instructions given by the supplier of the jointing kit.

11.2 The cables must be twisted by hand so that the cores can be joined according to the core numbers. If necessary, the cable is to be exposed for a short distance to accomplish this. Under no circumstances may the cores in a joint be crossed so as to enable cores to be joined according to the core numbers. If it is not possible to twist the cables so that the preceding requirements can be

met, then cores are to be joined in the normal way without any consideration of the core numbers.

11.3 Normally the cables will have profile conductors. The conductors shall be pinched with gas pliers to form a circular section, bound with binding wire so that they do not spread, and then tinned before jointing.

11.4 Jointing ferrules, the length of which are at least 6 times the diameter of the conductors, must be slid over the conductor ends to be joined and pinched tightly. Then they are soldered by means of the ladle process whilst being pinched further closed.

Use resin only as a flux. The slot opening in the ferrule must be completely filled, including all depressions.

Remove all superfluous metal with a cloth dipped in tallow. Work during the soldering process must be from top to bottom. Rub the ferrule smooth and clean with aluminium oxide tape after it has cooled down to ensure that there are not any sharp points or edges.

NB: The spaces between the conductor strands must be completely filled by soldering process and must be carried out quick enough to prevent the paper insulation from burning or drying out unnecessarily.

11.5 After the ferrules have been rubbed smooth and clean, they and the exposed cores must be treated with hot cable oil (110°C) to remove all dust and moisture. These parts are to be thoroughly basted with the oil.

11.6 The jointer must take care that his hands are dry and clean before the joint is insulated. Also, the insulating tape which is to be used must first be immersed in warm cable oil (110°C) for a sufficient period to ensure that no moisture is present.

11.7 After the individual cores have been installed, they must be well basted with hot cable oil and again after the applicable separator and/or belt insulation tape is applied before the lead joint sleeve is placed in position.

11.8 The lead joint sleeve must be thoroughly cleaned and prepared before it is placed on the cable and must be kept clean during the whole jointing process. Seal the filling apertures of the sleeve with tape until the sleeve is ready for compound filling.

11.9 The plumbing joints employed to solder the joint sleeve to the cable sheath, must be cooled off with tallow and the joint sleeve is to be filled with compound while it is still warm. Top up continuously until the joint is completely filled to compensate for the compound shrinkage.

11.10 The outer joint box must be clean and free from corrosion. After it has been placed in position it must be slightly heated before being filled with compound. Top up until completely full.

12. As far as cable end boxes are concerned the requirements as set out above are valid where applicable.

15. DISTRIBUTION BOARDS

In addition to clause 14 and clause 15 of Part 1 of this specification the following shall also be applicable to switchboards required for this service.

The Contractor shall supply and install the distribution boards as indicated on the drawings and listed in the distribution Board Schedule. All distribution be approved by the Client's representative.

The following types of distribution boards are required for the service:

Surface Mounted with doors

16. SCHEDULE OF LIGHT FITINGS

The light fittings and accessories shall be approved by the Client/Clients representative.

1	70W LED, recessed fluorescent luminaire with polycarbonate body
	and opal acrylic diffuser complete with lamps and electronic control
	gear, drivers etc. - TYPE A
2	Same as above with 1 hour emergency battery back-up system
	TYPE AE
3	18W LED decorative down light fitting complete with lamps, drivers,
	electronic control gear, etc. - TYPE B
4	15W LED decorative OUTDOOR Bulkhead light fitting complete with
	lamps, drivers, electronic control gear, etc. - TYPE C
5	10W LED decorative down light fitting complete with lamps, drivers,
	electronic control gear, etc. - TYPE D
6	70W LED, surface fluorescent luminaire with polycarbonate body
	and opal acrylic diffuser complete with lamps and electronic control
	gear, drivers etc. - TYPE AS
7	36W LED batten light fitting surface mounted complete with lamps
	and electronic control gear, drivers etc. – TYPE E
8	9W LED bulkhead light fitting with RED diffuser wall mounted complete
	with lamps and electronic control gear, drivers etc. – TYPE R
9	100W LED Highbay light fitting with aluminum dome complete with
	suspending chain, lamps and electronic control gear, drivers etc. – TYPE HB
10	50W LED wall mounted flood light, IP65 complete with lamps and
	electronic control gear, drivers etc. –Type W
11	56W LED vandal resistant light fitting complete with lamps and electronic
	control gear, drivers etc. –Type V

17. SCHEDULE OF DISTRIBUTION BOARDS

The front panels of normal supply sections shall be painted in distinctive colours as follows:

Normal supply : White

Emergency supply : Signal Red

UPS supply : Violet/Blue

Indicated is the probable fault level rating (kA) of the busbars.

BOARD	TYPE	PANEL	FAULT LEVEL	LOAD kVA

public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

DECLARATION – EPWP PROGRAMME

I _____ **from the Company**

_____ .

Hereby Undertake To Comply To :

1. **RECRUITMENT AND PLACEMENT OF EPWP PARTICIPANTS (Workers)**

   1.1 Comply To EPWP BOQ, Specifications and Code Of Good Practice.

2. **RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS**

3. Recruitment And Placement Of _____ **Workers, Cleaners and/or Gardeners.**

   3.1 Comply With Applicable Wage Order/ Determination or Agreement, In Terms of Labour Relations Act or Wage Act

4. **COMPLY TO EPWP MONTHLY REPORTING REQUIREMENTS**

   Monthly, Prepare and Submit below EPWP documents Attached To Monthly Payments Certificate to the Project Managers:

   4.1 All Employees and EPWP Participants Contracts
   4.2 All Employees And EPWP Participants Certified SA ID Copies
   4.3 All Employees And EPWP Participants Attendance Registers
   4.4 All Employees and EPWP Participants Proof Of Payment
   4.5 EPWP Reports Populated On Standard Templates

5. **PENALTY FOR NON COMPLIANCE**

   Acknowledge Non Compliance Penalty Of R 3000- 00 (Three Thousands Rand) Per Month Per Participants

Signed by : _____
Director of the Company

Company name : _____

Date : _____