

11. Linkage of Payment for Labour-Intensive Component of Works to Submission of Project Data

The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframes stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted. The client may institute a penalty relating to outstanding labour information.

The following information shall be maintained on site and submitted in electronic/hard copy formats:

- Certified ID copies of all locally employed labour
- Signed Contracts between the employer and the EPWP Participants
- Attendance Registers for the EPWP Participants
- Proof of Payment of EPWP Employees
- Monthly Reporting Template as per EPWP requirements

C2.2 SCHEDULE OF QUANTITIES

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	1		BILL NO. 1				
1	1		PRELIMINARIES				
1	1		BUILDING AGREEMENT AND PRELIMINARIES The JBCC Series 2000 Principal Building Agreement (March 2014 edition) prepared by the Joint Building Contract Committee shall be the applicable building agreement, ammended as hereinafter described. The ASAQs Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities. Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents. Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"				
1	1		PREAMBLES FOR TRADES				
1	1		The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained Supplementary preambles are Incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles. The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles				
1	1		PRICING OF PRELIMINARIES				
1	1		Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed(F), Value Related(V) and Time Related(T).				
1	1		SECTION A - PRINCIPAL BUILDING AGREEMENT				
1	1		Definitions				
1	1	1	Clause 1.0 Definitions and Interpretation F:..... V:..... T:.....	Item	1		
1	1	2	Clause 2.0 - Compliance with laws and regulations F:..... V:..... T:.....	Item	1		
1	1		Objective and Preparation				
1	1	3	Clause 3.0 - Offer acceptance and performance F:..... V:..... T:.....	Item	1		
1	1	4	Clause 5.0- Documents F:..... V:..... T:.....	Item	1		
1	1	5	Clause 6.0- Employer's Agent F:..... V:..... T:.....	Item	1		
1	1	6	Clause 7.0 - Design responsibility F:..... V:..... T:.....	Item	1		
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	2		Without limiting the generality of the provisions of Clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications.				
1	2	7	Clause 8.0 Works Risks F:..... V:..... T:.....	Item	1		
1	2	8	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item	1		
1	2	9	Clause 10.0 - Insurances F:..... V:..... T:.....	Item	1		
1	2	10	Clause 11.0 - Security F:..... V:..... T:.....	Item	1		
1	2		Execution				
1	2	11	Clause 12.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item	1		
1	2	12	Clause 13.0 Setting out of the works The contractor shall notify the Principal Agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments. F:..... V:..... T:.....	Item	1		
1	2	13	Clause 14.0 - Nominated subcontractors F:..... V:..... T:.....	Item	1		
1	3	14	Clause 15.0 - Selected contractors F:..... V:..... T:.....	Item	1		
1	2	15	Clause 16.0 - Direct contractors F:..... V:..... T:.....	Item	1		
1	2	16	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item	1		
1	2	17	(S1) - Management of the works	Months	6		
1	2	18	(S2)- Site security (2) Contractor's Handling cost and profit on (S2) F:..... V:..... T:.....	Months	6		
1	2	19	(S3) - Plant, equipment, sheds and offices	Item	1		
1	2	20	(S4) - Notice boards F:..... V:..... T:.....	No	2		
			Total Carried Forward				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	3		Completion				
1	3	21	Clause 18.0 - Interim Completion F _iV _iT _i	Item	1		
1	3	22	Clause 19.0 - Practical Completion The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained. F _iV _iT _i	Item	1		
1	3	23	Clause 20.0 - Sectional Completion F _iV _iT _i	Item	1		
1	3	24	Clause 21.0 - Defects liability period and Final Completion F _iV _iT _i	Item	1		
1	3	25	Clause 22.0 - Latent defects liability period F _iV _iT _i	Item	1		
1	3	26	Clause 23.0 Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor the adjustment of contract value (Clause 29.3) F _iV _iT _i	Item	1		
1	3	27	Clause 24.0 - Penalty for late or non-completion F _iV _iT _i	Item	1		
1	3	28	Clause 25.0 - Payment F _iV _iT _i	Item	1		
1	3	29	Clause 26.0 - Adjustment to the contract value and Final Account All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor. F _iV _iT _i	Item	1		
1	3	30	Clause 27.0 - Recovery of expense and loss F _iV _iT _i	Item	1		
1	3	31	Clause 28.0 - Suspension and Termination F _iV _iT _i	Item	1		
1	3		Termination				
1	3	32.1	Clause 29.1 - Termination by employer F _iV _iT _i	Item	1		
1	3	32.2	Clause 29.14 - Termination by contractor F _iV _iT _i	Item	1		
1	3	32.3	Clause 29.20 - Termination by either party F _iV _iT _i	Item	1		
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	4		Dispute				
1	4	33	Clause 30.0 - Settlement of disputes F:..... V:..... T:.....	Item	1		
1	4		Contract Agreement				
1	4	34.1	(S5) - Post Tender Provisions The required post tender information shall be inserted in the post tender provisions after consultation with the contractor	Item	1		
1	4	34.2	(S6) - Contractual Agreement The required Information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties	Item	1		
1	4		SECTION B: PRELIMINARIES				
1	4		Definition and Interpretation				
1	4	35	Clause 1.0 - Definition and interpretation F:..... V:..... T:.....	Item	1		
1	4		Documents				
1	4	36.1	(S7.1) - Checking of documents F:..... V:..... T:.....	Item	1		
1	4	36.2	(S7.2) - Provisional bills of quantities F:..... V:..... T:.....	Item	1		
1	4	36.3	(S7.3) - Availability of construction documentation F:..... V:..... T:.....	Item	1		
1	4		Previous work and adjoining properties				
1	4	37.1	(S8.1) - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	1		
1	4	37.2	(S8.2) - Previous Work - defects F:..... V:..... T:.....	Item	1		
1	4	37.3	(S8.3) - Inspection of adjoining properties F:..... V:..... T:.....	Item	1		
1	4		Deposits and fees				
1	4	38	(S9) - Deposits and fees F:..... V:..... T:.....	Item	1		
1	4		Temporary services				
1	4	39.1	(S10) - Water F:..... V:..... T:.....	Month	6		
1	4	39.2	(S11) - Electricity F:..... V:..... T:.....	Month	6		
1	4	39.3	(S12) - Telecommunication facilities F:..... V:..... T:.....	Month	1		
1	4	39.4	(S13) - Ablution facilities F:..... V:..... T:.....	Item	1		
1	4		Prime cost amounts				
1	4	39.5	(S14) - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	1		
1	4		Special attendance on N/S Subcontractors				
1	4	39.6	(S15) - Special attendance F:..... V:..... T:.....	Item	1		
			Total Carried Forward				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	5		General				
1	5	40.1	(S16) - Protection of works F:..... V:..... T:.....	Item	1		
1	5	40.2	(S17) - Protection / isolation of existing/ sectionally occupied works F:..... V:..... T:.....	Item	1		
1	5	40.3	(S18) - Security of the works F:..... V:..... T:.....	Item	1		
1	5	40.4	(S19) - Notice before covering work F:..... V:..... T:.....	Item	1		
1	5	40.5	(S20) - Disturbance F:..... V:..... T:.....	Item	1		
1	5	40.6	(S21) - Environmental disturbance F:..... V:..... T:.....	Item	1		
1	5		The employer has prepared an Environmental Management Plan, and is included in this document. The contractor shall price opposite this item for compliance with all requirement as detailed in the plan and as will be directed by the Principal Agent.				
1	5	40.7	(S22) - Works cleaning and clearing F:..... V:..... T:.....	Item	1		
1	5	40.8	(S23) - Vermin F:..... V:..... T:.....	Item	1		
1	5	40.9	(S24) - Overhand work F:..... V:..... T:.....	Item	1		
1	5		Schedule of variables				
1	5		Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this contract	Item	1		
			10.1 Provisional bills of quantities The quantities are provisional Yes				
			10.2 Availability of construction documentation Construction documentation is not complete No				
			10.3 Previous work - dimensional accuracy				
			10.4 Previous work - defects				
			10.5 Inspection of adjoining properties				
			10.6 water [clause 7.2]				
			Option A (by contractor) 10.7 Electricity				
			Option A (by contractor) 10.8 Telecommunications				
			Option A 10.9 Ablution facilities				
			Option A (by contractor) 10.10 Protection of the works				
			Option A (by contractor) 10.11 Protection/ Isolation of existing / sectionally occupied works				
			Option A (by contractor) 10.12 Disturbance				
			10.13 Environmental disturbance				
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	6		SECTION C: SPECIFIC PRELIMINARIES				
1	6		Contract Price Adjustment Provisions				
1	6	41	Bidders are advised that this Contract shall NOT be subject to the Contract Price Adjustment Provisions (CPAP) or any other escalation formula and therefore a bidder has to allow for any increases.	Item	1		
1	6		Site Instructions				
1	6	42	Site Instructions issued on site are to be recorded in triplicate in a site instruction book which is maintained on site by the contractor. F:..... V:..... T:.....	Item	1		
1	6		Warranties for material and workmanship				
1	6		Where warranties for materials and /or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on certified completion of contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. F:..... V:..... T:.....	Item	1		
1	6		Co-operation of contractor for cost management				
1	6	43	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/ reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors F:..... V:..... T:.....	Item	1		
1	6		Propping of floors below				
1	6	44	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding etc. The location of these areas and any necessary propping shall be approved by the Principal Agent and the cost thereof shall be borne by the contractor. F:..... V:..... T:.....	Item	1		
1	6		Testing of windows for watertightness				
1	6	45	Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means. F:..... V:..... T:.....	Item	1		
1	6		Testing of flat roof waterproofing for watertightness				
1	6	46	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing. F:..... V:..... T:.....	Item	1		
			Total Carried Forward				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	7		Overtime				
1	7	47	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the Project Manager has specifically authorized in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer. F:..... V:..... T:.....	Item	1		
1	7		As built drawings				
1	7	48	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the Project Manager and the structural engineer for their records. F:..... V:..... T:.....	Item	1		
1	7		Labour record				
1	7	49	At the end of each week the contractor shall provide the project manager with a written record, in schedule form, reflecting the number and description of tradesman and labourers employed by him/her and all subcontractors on the works each day. F:..... V:..... T:.....	Item	1		
1	7		Plant Record				
1	7	50	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity. F:..... V:..... T:.....	Item	1		
1	7		Non Cession of Monies				
1	7	51	The contractor shall not cede or assign his/her rights or claims to any monies due or to become due under this contract. F:..... V:..... T:.....	Item	1		
1	7		Tender Evaluation & Adjudication				
1	7	52	The evaluation of tenders will be based on the criteria stipulated in the Preferential Procurement Policy. F:..... V:..... T:.....	Item	1		
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	8		SUMMARY OF CATEGORIES				
1	8	53.1	Category: Fixed R.....	Item	1		
1	8	53.2	Category: Value R.....	Item	1		
1	8	53.3	Category: Time R.....	Item	1		
			Total Carried Forward				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	9		SECTION D : OCCUPATIONAL HEALTH AND SAFETY				
1	9	54	<p>Without limiting the generality of the provisions of clause 7.0 of the Principal Building Agreement, the Contractors attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of Occupational Health and Safety Act, 1993 in which it is specifically stated and the Employer shall ensure that the Contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor is referred to the occupational Health and Safety of Construction attached to this document as Annexure A and the contractor shall price for compliance with the Act and the regulations and the provisions of the aforementioned Health and Safety Specification.</p> <p>The Legal requirements contemplated in Construction Regulation CR (1) (g)</p> <p>A client must ensure that potential principal contractors submitting tenders, have made adequate provision for the cost of health and safety measuresö</p> <p>And CR 5(1) (h)</p> <p>A Client must ensure that the principal contractor to be appointed has the necessary competencies and resource to carry out the construction work safetyö</p> <p>Shall apply and failure to price the Health and Safety items will result in the tender being deemed non - responsive</p> <p>OCCUPATIONAL HEALTH AND SAFETY ACT NO.85 1993 : THIS ACT NOT AFFECTED BY AGREEMENT</p> <p>Subject to the provisions of section 10 (4) and 37 (2), a provision of this Act or a condition specified in any notice or direction issued there under or subjects to which exemption was granted to any person under section 40, shall not be affected to any condition of any agreement whether such agreement was entered into before The contractors attention is further drawn to Section 41 of the or after the commencement if this Act or before or after the imposition of any such condition, as the case may be.</p> <p>Prior to pricing the Contactor MUST FAMILIARIZE HIM / HERSELF WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 1993 as well as the Construction Regulations, 2014, other Relevant Regulations and Standards.</p>	Item	1		
1	9		GENERAL				
1	9	55.1	Notice the Provincial Director Department of Labor in writing of the commencement of construction work with and including submission of a letter or receipt and acknowledgement of the aforementioned notice by the director or his / her representative	Item	1		
1	9	55.2	Allow for the necessary workman's compensation fund or FEM contributions for the duration of the project with and including renewals . F.....V.....T.....	Item	1		
1	9	55.3	Allow for the preparation and approvals of the project - specific H & S and file (CR7 (1) (A) F.....V.....T.....	Item	1		
1	9	55.4	Allow for the implementation and maintenance of project - specific H&C Plan and File. (CR 7)	Item	1		
1	9	55.5	Allow for the appointment of a Full - Time/Part - Time competent Construction Health and Safety Officer to assist in the control of all health and safety related aspects on site as per CR8 (5)	Item	1		
1	9	55.6	Provide for appointment of responsible and competent person /s to manage and supervise the work and administer and enforce health and safety on site as per CR 8 (1), (2) and (7)	Item	1		
1	9	55.7	Allow for provision of telecommunication facilities for the appointed construction Health and Safety Office	Item	1		
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	10	55.8	Allow for provision of Basic Emergency preparedness and Response equipment and minimum Level 2 First Aider/s	Item	1		
1	10	55.9	Provide, supply and maintain for each worker the following SANS approved personal Protective equipment & clothing as per the site - Specific risk assessment:	Item	1		
1	10	55.10	Hard Hat (High Density polyethylene with 6 - point lining)	Item	1		
1	10	55.11	Overall / Work suit (100% Cotton)	Item	1		
1	10	55.12	High Visibility reflecting vest and / or bibs	Item	1		
1	10	55.13	Safety boot / shoes (Steel - toes)	Item	1		
1	10	55.14	Safety Gumboot (Steel - toes)	Item	1		
1	10	55.15	Ear Plugs / Muffs	Item	1		
1	10	55.16	Dust Masks (at least FF2 type)	Item	1		
1	10	55.17	Respirators	Item	1		
1	10	55.18	Safety goggles	Item	1		
1	10	55.19	Temporary handrails, toe boards, etc. other than for access scaffoldings	Item	1		
1	10	55.20	Personal fall arrest and rescue equipment with and including life lines and associated equipments	Item	1		
1	10	55.21	SANS approved safety netting (orange color minimum 1,2 meter high)	Item	1		
1	10	55.22	Temporary warning signs and symbols	Item	1		
1	10	55.23	Road traffic signs in terms of the South African Road Traffic signs Manual	Item	1		
1	10		MEDICAL EXAMINATIONS				
1	10	56.1	Allow for pre-employment medical examinations	Item	1		
1	10	56.2	Allow for baseline psychological examinations	Item	1		
1	10	56.3	Allow for exit medical examinations	Item	1		
1	10		Health and Safety Education				
1	10	56.4	Allow for HIV / AIDS Awareness and Implementation programmes, including STI and TB	Item	1		
1	10	56.5	Allow for all compulsory health and safety awareness programmes (e.g. Inductions, Toolbox, Talks, safety Promotions, H&S related training, etc.)	Item	1		
1	10		ENVIRONMENTAL				
1	10	57.1	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water	Item	1		
1	10	57.2	Provide for the adequate and safe collection and disposal of waste material and effluent from site by and approved method.	Item	1		
1	10	57.3	Provide facilities and eating area for works.	Item	1		
1	10	57.4	Provide for rehabilitation on completion of site areas and temporary access route not covered by construction or landscaping specifications.	Item	1		
			Total Carried Forward				

BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
1	11	57.5	Provide for adequate dust control measure, including regular watering of access route.	Item			
1	11	57.6	Provide for an Environmental Officer or responsible person to prepare and update Method Statement, conduct regular inspections, maintain records and report to the Principal Agent.	Item	1		
1	11		COMMUNITY LIAISING OFFICER :				
1	11	58.1	(1) CLO Costs (at R5000/month)	Month	6	5 000,00	30 000,00
1	11	58.2	(2) CLO's cellphone costs (at R200/month)	Month	6	200,00	1 200,00
1	11	58.3	(3) Contractor's Handling cost and profit on (1) and (2)	%			
1	11		IN-SERVICE TRAINING STUDENT :				
1	11	59.1	(1) Provision for training Local Students engaged in Civil Engineering related studies with any South African recognised tertiary institution, or other as may be selected by the Employer	Item	1	45 000,00	45 000,00
1	11	59.2	(2) Contractor's Handling cost and profit on (1)	%			
1	11		PROVISIONAL SUMS :				
			Note: All provisional sums to be used at the discretion of the Engineer.				
1	11	60.1	a) Application for Eskom account and power supply infrastructure on behalf of the municipality	Prov. Sum	1	35 000,00	35 000,00
1	11	60.2	b) Development and training for nominated sub-contractors allowance for Full time Enterprise Development Mentor. This item only be paid based on the satisfactory conduct of the Main Contractor Mentor.	Prov. Sum	1	45 000,00	45 000,00
1	11		Identify work for local subcontractors (CIDB Grade 1). Work to be up to 20% of the Net Contract Value. Each subcontractor to be awarded minimum work value of minimum R130 000 in order to qualify to upgrade to CIDB grade 2.				
1	11	60.3	Allowance for Engineer's additional site supervision of the works, preparation of CPG BoQs and Procurement process	Prov. Sum	1	1 420 000,00	1 420 000,00
1	11	60.4	Contractor's attendance, handling costs and charges on above items	%	1 500 000,00		
1	11	70	Provision of Training				
1	11	70.1	(a) General Skills Training (15 labourers x 5 days of training = 75 person days x Minimum labour rate)	Person days of Training	150	150,00	22 500,00
1	11	70.2	(b) Entrepreneurial Skills Training	Prov. Sum	1	10 000,00	10 000,00
1	11	70.3	(c) Training Venue (only if required)	Sum	1	15 000,00	15 000,00
1	11	70.5	(d.) Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site. (provisional sum)	Sum	1	2 500,00	2 500,00
1	11	70.6	(e) Handling cost and profit in respect of sub-item (a),(b),(c) and (d) above.	%	50 000,00		
1	11	71	DAYWORKS				
1	11	71.1	Vehicles, plant and equipment				
1	11	71.2	(a) Lowbed: Transport of plant to or from site	hr	5		
1	11	71.3	(b) Motor grader				
1	11	71.4	(i) Up to 100Kw and mass 12 tonne	hr	5		
1	11	71.5	(c) Loader				
1	11	71.6	(i) Rubber tyred up to 60 Kw and mass 12 tonne	hr	5		
1	11	71.7	(d) Backhoe excavators				
1	11	71.8	(i) Rubber tyred up to 60 Kw and mass 12 tonne	hr	5		
1	11	71.9	(e) Self propelled compactors				
1	11	71.10	(i) With static mass between 6 and 8 tonnes	hr	5		
1	11	71.11	(f) Walk behind vibrating roller				
1	11	71.12	(i) Static mass greater than 800 kg	hr	5		
1	11	71.13	(g) Tamping platecompactor				
1	11	71.14	(i) Static mass greater than 60 kg	hr	5		
1	11	71.15	(h) Trucks				
1	11	71.16	(i) Tipper up to 6 m ³ capacity	hr	5		
1	11	71.17	(ii) Tipper more than 6 m ³ capacity	hr	5		
1	11	71.18	(iii) Flatbed truck more than 7 tonne capacity	hr	5		
1	11	71.19	(i) Water Truck				
1	11	71.20	(i) Up to 7000 litres	hr	5		
1	11	71.21	(ii) Up to 12000 litres	hr	5		
1	11	71.22	(j) Compressor				
1	11	71.23	(i) Up to 10 m ³ /min	hr	5		
1	11	71.24	(k) Concrete Mixer				
1	11	71.25	(i) Up to 0.3 m ³ dry mix capacity	hr	5		
1	11	72	Personnel				
1	11	72.1	(a) Artisan (Member of Industrial Council)	hr	10		
1	11	72.2	(b) Artisan (Non-member of Industrial Council)	hr	10		
1	11	72.3	(c) Ganger	hr	10		
1	11	72.4	(d) Labourer	hr	10		
1	11	73	Materials				
1	11	73.1	(a) Procurement of materials	Prov Sum	1	5000	5 000,00
1	11	73.2	Contractors handling costs, profit and all other charges in respect of subitem B18.03(a) (state % and extend as an amount)	%	5 000,00		
			Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1		EARTHWORKS				
1		SUPPLEMENTARY PREAMBLES				
1		Nature of ground				
1		The Tenderer must acquaint himself with the nature of the material to be excavated				
1		Subterranean water				
1		No information regarding subterranean water is available. The Tenderer must acquaint himself of the presence and depth of subterranean water and allow for same in his pricing				
1		Carting away of excavated material				
1		Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
1		EXCAVATION, FILLING, ETC OTHER THAN BULK				
1		Excavation in earth not exceeding 2m deep				
1	1	Reduced levels under floors	m3	60		
1	2	Trenches	m3	240		
1	3	Bases	m3	50		
1		Extra over trench and hole excavations in earth for excavation in				
1	3	Soft rock	m3	10		
1	4	Hard rock	m3	10		
1		Extra over all excavations for carting away				
1	7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	65		
1		Risk of collapse of excavations				
1	8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	480		
1	9	Sides of trench and hole excavations exceeding 1,5m deep	m2	10		
1		Keeping excavations free of water				
1	10	Keeping excavations free of water other than subterranean water	item	1		
1		Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density				
1	11	Backfilling to trenches, holes, etc	m3	120		
1		Earth filling supplied by the contractor under floors, steps, pavings, etc				
1	12	Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	150		
1		Coarse river sand filling supplied by the contractor				
1	13	Under floors, steps, pavings, etc	m3	15		
1		Compaction of surfaces				
1	14	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	680		
1		SOIL POISONING				
1		Soil insecticide				
1	15	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	680		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2		BILL NO. 2				
2		CONCRETE, FORMWORK AND REINFORCEMENT				
2		SUPPLEMENTARY PREAMBLES				
2		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 Engineer. The testing shall be undertaken by an Independent firm or institution nominated by the contractor to the approval of the Engineer. (Test cubes are measured separately)				
2		UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
2		15MPa/19mm concrete				
2	1	Surface blinding under footings and bases	m3	10		
2		REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
2		30MPa/19mm concrete				
2	2	Footing	m3	55		
2	3	Bases	m3	30		
2	4	Surface beds on waterproofing	m3	130		
2	5	Slabs and beams	m3	130		
2	6	Columns	m3	10		
2	7	Stairs including landings,beams and inverted beams	m3	5		
2		TEST BLOCKS				
2	8	Making and testing 150 x 150 x 150mm concrete strength test cube	No	30		
2		CONCRETE SUNDRIES				
2		Finishing top surfaces of concrete smooth with a wood float				
2	9	Surface beds, slabs, etc	m2	1320		
2	10	Apron slabs to falls	m2	120		
2	11	3 x 30mm Saw cut joints in top of concrete including reaming out to 10 x 25mm	m	170		
2		Finishing top surfaces of concrete smooth with a steel trowel				
2	12	Surface beds, slabs, etc to falls	m2	10		
2		ROUGH FORMWORK (DEGREE OF ACCURACY II)				
2		Rough formwork to sides,soffits.etc				
2	13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	320		
2	14	Slabs not exceeding 255mm thick.	m2	660		
2	15	Beams propped up exceeding 3.5m and not exceeding 11m high	m2	200		
2	16	Soffits of landing	m2	20		
2		MOVEMENT JOINTS, ETC				
2		Expansion joints with high density polystyrene between vertical concrete and brick surfaces				
2	17	10mm Joints not exceeding 300mm high	m	270		
2		REINFORCEMENT				
2		High tensile steel reinforcement to structural concrete work				
2	18	Bars of various diameters	t	9,6		
2		Fabric reinforcement				
2	19	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	660		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3		BILL NO.3				
3		MASONRY				
2		SUPPLEMENTARY PREAMBLES				
3		BRICKWORK				
3		Sizes in descriptions				
3		Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
3		Face bricks				
3		Bricks shall be ordered timeously to obtain uniformity in size and colour				
3		Pointing				
3		Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
3		SAMPLES				
3		Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site				
3		FOUNDATIONS				
3		Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
3	1	Half brick walls	m2	0		
3	2	One brick walls	m2	270		
3		SUPERSTRUCTURE				
3		Brickwork of NFPE bricks (14 MPa nominal compressive strength) in class I mortar in loadbearing walls, etc				
3	3	Half brick walls	m2	900		
3	4	Half brick walls in beamfilling	m2	30		
3	5	One brick walls	m2	260		
3	6	One brick walls bagged and sealed	m2	800		
3	7	345mm Brick walls.	m2	40		
3		BRICKWORK SUNDRIES				
3		Bagging of 1:3 cement and sand mixture				
3	8	On brick walls, piers, etc	m2	780		
3	9	10mm Soft board built in vertically between brick skins.	m2	5		
3		Brickwork reinforcement				
3	10	75mm Wide reinforcement built in horizontally	m	3400		
3	11	150mm Wide reinforcement built in horizontally	m	2650		
3		"Fabcon" or equal and approved pre-stressed fabricated lintels				
3	12	100 x 70mm Lintels in lengths not exceeding 3m	m	160		
3		Turning pieces				
3	10	220mm Wide turning piece to lintels, etc	m	160		
3		Galvanised hoop iron cramps, ties, etc				
3	11	30 x 1,6mm Roof tie 1,6m long with one end fixed to timber and other end built into brickwork	No	160		
3		FACE BRICKWORK				
3		FBS " Roan Satin" face bricks pointed with recessed horizontal and vertical joints				
3	12	Extra over ordinary brickwork for face brickwork to external face.	m2	780		
3	13	Extra over ordinary brickwork for face brickwork to internal face.	m2	17		
3	14	Extra over ordinary brickwork for face brickwork beamfilling.	m2	30		
		Total Carried Forward				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
3	15	135mm Wide cill set sloping at 30 degrees and slightly projecting, pointed on faces and top.	m	60		
3	16	Brick-on-edge header course lintel.	m	60		
3	17	Brick-on-edge coping to walls.	m	100		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4		BILL NO. 4				
4		WATERPROOFING				
4		SUPPLEMENTARY PREAMBLES				
4		Waterproofing				
4		Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
4		DAMPPROOFING OF WALLS AND FLOORS				
4		One layer of 375 micron "Consol Plastics Brikgrip DPC" or equal and approved embossed damp proof course				
4	1	In walls	m2	50		
4	2	In walls under window cills	m2	10		
4		One layer of 250 micron "Consol Plastics Gunplas USB Green" or equal and approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
4	3	Under surface beds	m2	660		
4		Two coats "Brixeal" or equal and approved bitumen emulsion waterproof coating				
4	4	On bagged brick walls	m2	760		
4		WATERPROOFING TO ROOFS, BASEMENTS, ETC				
4		"Tal Sureproof" or equal and approved two part liquid applied membrane waterproofing				
4	5	Flashing strip 76mm girth at turn-ups including sealing top edge	m	20		
4		JOINT SEALANTS, ETC				
4		Clear silicone sealing compound				
4	6	Pointing joint between window frames and brickwork	m	330		
4		Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
4	7	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	195		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5		BILL NO. 5				
5		CARPENTRY AND JOINERY				
5		SUPPLEMENTARY PREAMBLES				
5		Joinery:				
5		Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc				
5		Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes				
5		Complete Roof Construction Including covering				
5		Guard House Complete plate nailed roof construction for the entire building supplied and erected including all purlins, bracing, fascia boards, barge boards, wall plates, creosote on overhangs and wall plates, 0,53mm IBR Roof covering and Sisalation. (Measured at floor area of 30 m2)				
5	1	Roof covering with pitch not exceeding 25 degrees	m ²	30		
5		Fire Station Complete plate nailed roof construction for the entire building supplied and erected Including all purlins, bracing, fascia boards, barge boards, wall plates, creosote on overhangs and wall plates, 0,53mm IBR Roof covering and Sisalation. (Measured at floor area of 550 m2)				
5	2	Roof covering with pitch not exceeding 25 degrees	m ²	550		
5		SHEET METAL FLASHINGS, LININGS, COPINGS, ETC.				
5		0.60mm Aluminium Charcoal sheeting, fixed to timber or steel purlins or rails and accessories				
5	3	375 mm girth and cover Sidewall flashing (Code FK9)	m	60		
5		DOORS, ETC				
5		Semi-solid flush patterned doors with 3,2mm hardboard veneer and hardwood concealed edge strips				
5	4	40mm Door, size 813 x 1850mm high.	No	6		
5	5	40mm Door, size 813 x 2032mm high	No	29		
5	6	40mm Door, size 1013 x 2032mm high	No	2		
5		Solid laminated flush door with hardboard veneer covering both sides and two concealed edges				
5	7	40mm Double door size 1200 x 2032mm high.	No	1		
5		Wrought meranti doors				
5	8	40mm Framed, ledged and braced meranti door, size 813 x 2032mm high and 32 x 76mm splayed weather board.	No	7		
5	9	40mm Framed, ledged and braced louvred meranti double door size 1613 x 2032mm high with flush back panels and 32 x 76mm splayed weather board.	No	5		
5		JOINERY FITTINGS				
5		SUPPLEMENTARY PREAMBLES				
5		General				
5		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, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc.				
5		User notes:				
5		Decorative laminate finish				
5		Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.				
5		Drawings/References				
5		KITCHEN CUPBOARDS				
5		Prefabricated Factory Finished cupboards				
5	10	Floor mounted kitchen sink cupboard complete with 32mm waterproof 'Duraboard' counter top faced with formica laminate "Natural Oak code:01.7" or similar approved, complete with sides, bottom, division, shelves, back, doors, dividing framework, etc. including chromium plated mild steel self closing concealed hinges, 8mm natural anodized aluminium bow pull handles, magnetic cupboard catch and keep, etc. as per drawing KITCHEN LAYOUT AND BUILT-IN CUPBOARDS:	No	1		

		Total Carried Forward						

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
5		BUILD-IN CUPBOARDS Prefabricated Factory Finished cupboards				
5	11	Build-in cupboards consisting of 19mm 'Duraboard' faced with formica laminate "Natural Oak code:017" complete with doors, top, sides, bottom, division, shelves, frames, handles, etc. including, chromium plated mild steel self closing concealed hinges, 8mm natural anodized aluminium bow pull handles, "Union" or other approved 2 lever cupboard lock, keep and escutcheon, magnetic cupboard catch and keep, 75mm chromium mild steel barrel bolt and keep, etc. as per drawing FEMALE BATHROOM LAYOUT, attached	No	3		
5		WORKTOPS, COUNTERS, ETC.				
5		Purpose made Counters of 19mm Supawood				
5	12	Reception counter cupboard complete with 19mm 'Supawood' counter top faced with formica laminate "Natural Oak code:017" or similar approved, complete with sides, bottom, division, shelf s, back, doors, dividing framework, etc. including chromium plated mild steel self closing concealed hinges, 8mm natural anodized aluminium bow pull handles, magnetic cupboard catch and keep, etc. as per attached drawing KITCHEN	No	1		
5		Formica faced worktop				
5	13	540 x 32mm Solid post fomed Formica on "Duraboard" backing board, with 10mm radius arrised corners to exposed edges, fixed to bearers/brackets (elsewhere measured) on each side.	m	10		
5	14	Allow a provisional sum the supply of general loose furniture and equipment as required.		1	R 75 000,00	R 75 000,00
5	15	Profit/mark-up on item 14 above	%	75000		

		Total Carried Forward to Summary	
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CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		BILL NO. 6				
6		CEILINGS AND PARTITIONS				
6		SUPPLEMENTARY PREAMBLES				
6		Descriptions:				
6		Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
6		Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
6		CEILINGS, ETC				
6		S.A Pine cornices				
6	1	44 x 19mm Cornices with 8 x 8mm recess nailed	m	50		
6		"Aerolite" or equal and approved Fibre glass wool insulation				
6	2	100mm Insulation closely fitted and laid on top of branderling between roof timbers etc	m2	100		
6		NAILED UP CEILINGS				
6		9,5mm "Rhino" or equal and approved gypsum plasterboard with taped and skimmed joints				
6	3	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres in one direction	m2	100		
6	4	Extra over ceiling for opening for 650 x 650mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc as described	No	1		
6		SUSPENDED CEILINGS				
6		Cellitex or other approved vinylclad gypsum aluminium foil backed ceiling tiles size 1200 x 600mm x 12mm thick with Ripple white finish laid onto CKM T38/24 pre-painted white exposed tee grid system, with the main tees suspended by means of 19 x 0,5mm galvanised mild steel strap hangers at 1200mm centres				
6	5	Ceilings panels in suspended grid not exceeding 1m below concrete soffits	m2	550		
6	6	Shadowline cornice	m	280		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		BILL NO. 7				
7		TILING				
		200 x 200 x 4,7mm 'Johnson Matisse MWB4' glazed wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive to plaster (elsewhere measured) with 2mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout' on:				
7	1	On walls	m2	250		
		FLOOR TILING				
		300 x 300mm "Johnson Kerastar Themis" porcelain floor tiles with an approved adhesive with 8mm joints in both directions and flush pointed with tinted waterproof antifungal grouting compound				
7	2	On floors	m2	704		
7	3	Internal skirting or narrow widths not exceeding 150mm high	m	705		
7	4	On treads and risers	m2	10		
7	5	Epoxy on floors	m2	430		
		Mosaic floor tiles fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound				
7	6	Mosaic tiles on showers	m2	5		
		Total Carried Forward to Summary				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8		BILL NO. 8				
8		IRONMONGERY				
		HINGES, BOLTS, ETC.				
		"Union"				
8	1	Flush bolt with nickel plated finish, AL8052-150 NP.	No	8		
		CATCHES, CABIN HOOKS, ETC.				
8	2	76mm Chromium plated cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	10		
8	3	38mm Diameter rubber door stop plugged.	No	19		
		"Union"				
8	4	Cast zinc door stop with satin chrome finish, Code CZ8731SC.	No	7		
		LOCKS				
		"Union"				
8	5	Toilet indicator bolt, Union CZ8294SC	No	5		
8	6	Four lever stainless steel mortice lock with chromium plated handles, Union CZ682-24-E15C	No	29		
8	7	Cylinder lockcase Union L-22315-7665S with "Dover" lever handles on backplate Union AL6067-05AS and rebate conversion kit Union 2700SC.	No	4		
		DOOR CLOSERS				
		"Dorma"				
8	8	Overhead door closer (Dorma TS73)	No	3		
		LETTERS, NAMEPLATES, ETC.				
		"Union"				
8	9	150 x 150mm Aluminium plate with fire extinguisher indicator (Code: AL5022-E06)	No	6		
8	10	150 x 150mm Aluminium plate with fire hose reel indicator (Code: AL5022-E05)	No	3		
8	11	150 x 150mm Aluminium plate with female indicator sign (Code: AL5022-E11)	No	4		
8	12	150 x 150mm Aluminium plate with male indicator sign (Code: AL5022-E10)	No	4		
8	13	150 x 150mm Aluminium plate with paraplegic indicator sign (Code: AL5022-E14)	No	1		
8	14	150 x 150mm Aluminium plate with emergency exit indicator sign (Code: AL5022-E14)	No	1		
8	15	150 x 150mm Aluminium plate with DB Board indicator sign (Code: AL5022-E01)	No	1		
8	16	150 x 150mm Aluminium plate with directional arrow indicator sign (Code: AL5022-E08)	No	8		
		3mm Thick clear perspex plate with helvetia medium white vinyl numerals 22mm high on silver background and 5mm thick border lines, holed and screw fixed to timber surface with four chrome plated self tapping screws				
8	17	Plate 120 x 35mm high with wording 1 to 2 numeral on plate fixed complete.	No	20		
		4mm Thick clear perspex plate with helvetia medium white vinyl lettering 15mm high on back, holed and screw fixed to timber surface with four chrome plated self tapping screws				
8	18	Plate 200 x 60mm high with various wording, on plate fixed complete.	No	18		
		Total Carried Forward				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
		BATHROOM FITTINGS				
		"Union"				
8	19	Aluminium anodized hat and coat hook, complete with screws and wall lugs for fixing to masonry (Code AL8721AS).	No	7		
		"Solid Art"				
8	20	25mm Diameter chromium plated hanging rail 400mm long including Solid Art 262 end brackets.	No	12		
		"Franke"				
8	21	Soap dispenser, Code STRX618, with replacement cartridge system fixed to wall according to manufacturers specifications.	No	6		
8	22	Multifold white paper towel dispenser, Code STRX600, including white acrylic wall paper towel disposer bin, both fixed to wall to manufacturers specifications.	No	6		
8	23	Toilet roll holder, Code STRX672, fixed to wall according to manufacturers specifications	No	6		
		'Chairman Industries' type 304 stainless steel fittings with satin polished finish, screwed to and Including plugs in tiled wall:				
8	24	'Ref SR2' cistern back rail.	No	1		
8	25	'Ref. DL2' side grab rail.	No	1		
		PINNING BOARDS, ETC. (PROVISIONAL)				
		"Parrot Products" bulletin board with durable and hardwearing carpet surface on soft backing, with anodized aluminium frame and fixed to manufacturers instructions				
8	26	Pinningboard, size 1200 x 800mm fixed to walls (Code BD540).	No	4		
		"Parrot Products" White board with 1,2mm high pressure laminate finish suitable for writing on with dry wipe pen, on 13mm soft board, with anodized aluminium frame complete with integrated pen tray and fixed to manufacturers instructions				
	26	White writing board, size 1200 x 800mm fixed to walls (Code BD1304).	No	6		
		SUNDRIES				
		Door sundries				
8	27	Break glass key box	No	1		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9		BILL NO. 9				
9		METALWORK				
9		SUPPLEMENTARY PREAMBLES				
9		Descriptions of bolts shall be deemed to include nuts and washers				
9		Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
9		Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
9		Stainless steel seamless pipes				
9	1	60.33 x 2.77mm Diameter seamless stainless steel pipe 1380mm long, built into brickwork 115mm on each side.	No	1		
9		SUNDRY HOT DIPPED GALVANISED STEELWORK				
9		Galvanised mild steel brackets, framing, etc. (Provisional)				
9	2	88.9mm Diameter x 5mm thick seamless stainless steel pipe 3600mm long, built into brickwork 115mm on each side.	No	1		
9		Galvanised mild steel floor duct covers, etc.				
9	3	4,5mm Thick galvanised mild steel "Mentis Rectagrid" with 25mm squares laid loose in framing (elsewhere measured).	m2	2		
9	4	30 x 30 x 5mm Thick angle section bearer with lugs at 300mm centres embedded into concrete.	m	6		
9		Welded galvanised mild steel cat-ladder to face brick wall				
9	5	Welded cat-ladder 500mm wide and 4500mm high, formed of 75 x 25mm flat section stringers and 25mm diameter rungs 500mm long at 290mm centres, including 12 x 75 x 245mm angle section connections welded to stringers (five per stringer) and bolted to walls with 150 x 15mm galvanised mild steel rawl bolts.	No	6		
9		HOT DIPPED GALVANISED MILD STEEL HANDRAILS, BALUSTRADES, ETC.				
9		Welded balustrading to concrete staircase				
9	6	50 x 50 x 2mm Hollow section square mild steel continuous handrails	m	6		
9	7	50 x 30 x 2mm Hollow section square mild steel continuous middle and bottom rails	m	12		
9	8	50 x 50 x 2mm Hollow section square mild steel post 1000mm long with top welded to framing and bottom welded to and including 150 x 150 x 5mm foot plate 4 x holed for bolts (bolts elsewhere measured)	No	5		
9	9	12mm Solid mild steel square bar balusters	m	33		
9		HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES				
9		1,2mm Double rebated frames suitable for one brick walls				
9	10	Frame for door 813 x 2032mm high.	No	4		
9	11	Frame for double door size 1200 x 2032mm high.	No	2		
9	12	Frame for double door size 1613 x 2032mm high.	No	3		
		Total Carried Forward				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
9	13	1,2mm Double rebated frames suitable for half brick walls Frame for door 813 x 2032mm high.	No	19		
9		ALUMINIUM WINDOWS				
9		All work shall comply with the recommended performance requirements as set out by AAMSA (Association of Architectural Aluminium Manufacturers of South Africa) in their latest edition of the "Selection Guide" and "Quality Standard Guide for Installed Architectural Windows, Doors and Shopfronts."				
9		All anodising to be minimum 25 microns. Epoxy powder coating shall be minimum 50 microns.				
9		"Wispeco 340 " natural anodised aluminium windows glazed with 4mm "Smartglass Clearvue" clear float glass with 45 degrees clip in glazing beads, code 14108, complete with handles, strike plates, friction hinges etc, and plugged to brickwork or concrete final stripping of the protective tape and cleaning down to approval at completion.				
9	14	Window 600 x 600mm high	No	11		
9	15	Window 1200 x 600mm high	No	2		
9	16	Window 1200 x 900mm high	No	3		
9	17	Window 600 x 1800mm high	No	6		
9	18	Window 1800 x 1200mm high	No	22		
9	19	Window 2400 x 1200mm high	No	1		
9	20	Window 6130 x 2100mm high	No	4		
		ALUMINIUM DOORS, ETC.				
9	21	Aluminium Sliding door 1800 x 2100mm high (SD1)	No	1		
9	22	Aluminium Sliding door 2400 x 2100mm high (SD2)	No	1		
9	23	Folding stacking door 4055 x 2475mm high	No	1		
9	24	Shopfront double door 1790 x 2475mm high (D7)	No	1		
		GLASS BRICKS				
9	25	190 X 190 Glass bricks fixed in opening size 1500 x 1500 mm (opening elsewhere measured).	No	2		
		SHOWER CUBICLE PANELS AND DOORS				
		Anodised aluminium shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc and toughened clear safety glass, plugged to tiled walls and				
9	26	Sliding door 900 x 2100mm high	No	4		
		STEEL ROLLER SHUTTERS				
		"Wispeco Roll-a-door" epoxy powder coated roller shutters fixed to brickwork or concrete				
9	27	Manual push-up slatted roller shutter for 4500 x 5000mm high opening	No	4		
9	28	Automated Operated Chromadek roller shutter for 4500 x 5000mm high opening	No	3		
		Total Carried Forward to Summary				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10		BILL NO. 10				
10		PLASTERING				
10		SCREEDS				
10		3:1 Cement and sand screeds wood floated on concrete				
10	1	30mm Thick on floors and landings	m2	1100		
10		INTERNAL PLASTER				
10		Cement plaster on brickwork and small part on concrete				
10	2	On walls	m2	2790		
10	3	On narrow widths	m2	60		
10	4	On concrete slab	m2	550		
Total Carried Forward to Summary						

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11		BILL NO. 11				
11		PLUMBING AND DRAINAGE				
11		SUPPLEMENTARY PREAMBLES				
		Rainwater disposal				
		Klip-Lok 700 sheet roofing, 0.58 Zincolume by Gutterfast or similar approved				
11	1	100mm wide box gutter (280mm girth)	m	90		
11	2	Extra over 280mm girth eaves box gutter for stopped end	No.	4		
11	3	75mm dia. downpipes plugged to wall with holderbats	m	20		
11	4	Extra over 280mm girth box eaves gutter for outlet for 75 x 75mm pipe	No.	4		
11	5	Extra for shoe	No.	2		
11	6	Extra over 75 x 75mm diameter rainwater pipe for bend	No.	4		
		Allow a provisional sum for the supply, delivery and installation of all sinks, basins, toilets, urinals, showers, shower doors and all associated fittings, supportwork and ancillaries required for installation as per the manufacturers specifications and in accordance with the sanitary schedule and layout drawings provided.	Prov Sum	1	350 000,00	350 000,00
11	7					
11	8	Profit/mark-up on item 7 above	%	350000		
		WATER SUPPLY PIPING AND INSTALLATION:				
11	9	10000 Litre Coloured polyethylene Jojo Water Tank complete with brickwork tank stand, lid & tap, fixed on tank base	No	2		
		Water Connection				
11	10	Allow for new connection, isolationing valve in 250mm dia. PVC valvebox	m	200		
11	11	Allow for trenching excavations & backfilling to install 20mm HDPE pipe, 600mm deep.	m	200		
11	12	Allow for 32mm HDPE PN 10 pipe from Water tank on stand to plumbing connection point.	m	200		
11	13	Allow for installation, provision of fittings on inlet and outlet side to the water tank stand	Sum	1	15 000,00	15 000,00
11	14	Allow a provisional sum for water connection fees	Prov Sum	1	10 000,00	10 000,00
11	15	Profit/mark-up on item 13 & 14 above	%	25000		
		Fire Fighting Appliances				
11	16	5 kg Dry chemical powder fire extinguisher fixed to wall	No	8		
11	17	Fire Hose Reel complete with water connections as per architectural schedules and layout drawings	No	4		

		Total Carried Forward to Summary								

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12		BILL NO. 12				
12		GLAZING				
12		GLAZING TO STEEL WITH PUTTY				
12		MIRRORS				
12		"Franke CHRH 401" (Code 359900) or equal and approved 1mm thick Stainless steel Grade 304 (18/10) mirrors holed for and plugged and screwed to brick wall with stainless steel screws				
12	1	Mirror 300 x 400mm high	No	11		
Total Carried Forward to Summary						

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13		BILL NO. 13				
13		PAINTWORK				
13		PAINTWORK, ETC TO NEW WORK				
13		ON FLOATED PLASTER				
13		One coat "Plascon Plaster Primer", one undercoat and two coats "Plascon Velvagio" polyurethane alkyd paint (Colour to Architects approval)				
13	1	On internal walls	m2	2850		
13	2	On concrete ceiling	m2	550		
13		ON PLASTER BOARD				
13		One coat "Plascon Plaster Primer", one undercoat and two coats "Plascon Polvin Walls and Ceilings" acrylic emulsion paint (Colour to Architects approval)				
13	3	On ceilings and cornices	m2	100		
13		Seal knots with "Plascon Woodcare Knot Seal", one coat "Plascon Wood Primer", one undercoat and two coats "Plascon Velvagio" polyurethane alkyd paint (Colour to Architects approval)				
13	4	On doors	m2	90		
13	5	On timber frames	m2	30		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
14		BILL NO. 14				
		ELECTRICAL WORK				
		Allow a provisional sum for the installation of all electrical conducting, draw boxes, distribution boards, wiring, light fittings, lightning protection, earthing, etc in accordance with statutory requirements inclusive of all material, labour, and time related costs as well as the issuing of regulatory				
14	1.1		Item	1	R 550 000,00	R 550 000,00
14	1.2	Add for profit	%	R 550 000,00		
14	1.3	Add for attendance	%	R 550 000,00		
		Allow a provisional sum for payment to ESKOM for a new power supply electrical connection fee.				
14	2.1		Prov Sum	1	R 45 000,00	R 45 000,00
14	2.2	Add for profit	%	R 45 000,00		
14	2.3	Add for attendance	%	R 45 000,00		
		Allow a provisional sum for the provision and installation of a standby diesel generator with self enclosed canopy and inclusive of control panel in accordance with statutory and manufacturer requirements for material and workmanship and inclusive of all associated costs				
14	3.1		Item	1	R 300 000,00	R 300 000,00
14	3.2	Add for profit	%	R 300 000,00		
14	3.3	Add for attendance	%	R 300 000,00		
		Allow a provisional sum for the provision and installation of lightning protection and earthing in accordance with statutory and manufacturer requirements for material and workmanship and inclusive of all associated costs				
14	4.1		Item	1	R 80 000,00	R 80 000,00
14	4.2	Add for profit	%	R 80 000,00		
14	4.3	Add for attendance	%	R 80 000,00		
		Allow a provisional sum for the supply and installation of all mechanical requirements for airconditioning and ventilation system in accordance with statutory requirements inclusive of all material, installation and time related costs as well as the issuing of safety compliance certificates				
14	5.1		Item	1	R 230 000,00	R 230 000,00
14	5.2	Add for profit	%	R 230 000,00		
14	5.3	Add for attendance	%	R 230 000,00		

		Total Carried Forward to Summary								

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1		BILL NO. 1				
1		SITE CLEARANCE, ETC				
1		Site clearance, etc				
1	1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	7500		
1	2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	7500		
1	3	Remove existing fence and store for reinstatement as directed by the Engineer on site	m	300		
1	4	Relocation of removed fence as directed by the Engineer on site	m	300		
1		REMOVAL OF TREES, ETC				
1	5	Tree exceeding 200mm and not exceeding 500mm girth	No	6		
1	6	Tree exceeding 500mm and not exceeding 1m girth	No	2		
1	7	Tree exceeding 1m and not exceeding 1,5m girth	No	2		
1	8	Tree exceeding 1,5m and not exceeding 2m girth	No	1		
1	9	Tree exceeding 2,5m and not exceeding 3m girth	No	1		
1	10	Tree exceeding 3m and not exceeding 3,5m girth	No	1		
1		BULK EXCAVATION, FILLING, ETC				
1		Excavate in all materials (Platform preparations) and use for embankment or Fill or dispose, as ordered				
1	11	Cut, stockpile and borrow to fill, including free-haul up to 1.0km (a) Material layer compacted to 93% of modified AASHTO to thickness of 150 mm and less	m3	200		
1	12	Cut to spoil, including free-haul up to 1.0km. (a) Soft excavation	m3	420		
1		Extra over bulk excavation in earth for excavation in				
1	13	Hard rock	m3	100		
1		Keeping excavations free of water				
1	14	Keeping excavations free of water other than subterranean water	Item	1		
1	15	"Modified AASHTO Density" test	No	15		
1	16	Supply and install 2400mm high Concrete palisade fence for the site boundary	m	450		
1	17	Supply and install single razor wire with steel galvanized brackets and afix on new concrete palisade fence on site boundary	m	450		
1	18	Single galvanised gate to suit opening size 1080 x 2100mm high	No.	1		
1	19	Double Galvanised gate to suit opening size 6000 x 2100mm high (Complete with rail, motor, remotes, etc)	No.	1		

	Total Carried Forward to Summary	
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CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		BILL NO. 2				
2		DRIVEWAY AND PARKING				
2		Excavation in earth not exceeding 2m deep				
2	1	Reduced levels under floors	m3	1680		
2		Extra over all excavations for carting away				
2	2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1680		
2		Surface preparation				
2	3	Compaction of ground surface under pavings, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 93 % Mod AASHTO density	m2	4300		
2	4	Apply "Weedmaster Turfmaster" or equal and approved weedkiller (at a rate of 40-45 ml to 5 litres of water per 50 m2) to surface of ground	m2	4300		
2		Earth filling supplied by the contractor under pavings, etc				
2	5	Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	m3	550		
2	6	Over site of G5 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	m3	550		
2	7	Over site of G5 material, stabilised with 4% Portland blast furnace cement, in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	550		
2	8	Over site of G2 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	550		
2		Prescribed density tests on filling				
2	9	"Modified AASHTO Density" test	No	40		
2		TAR				
2	10	Prime coat of MC70 applied at a rate of 0,81 litre per square meter Under bituminous roads and parking areas	m2	2850		
2		Bituminous premix road surfacing including prime				
2	11	30mm Thick to parking areas, roadways, etc.	m2	2850		
2		PRECAST CONCRETE PAVING				
2	12	60mm Thick precast concrete interlocking grey pavers laid in herringbone pattern on and including 50mm sand bed	m2	130		
2		Precast concrete kerbs				
2	13	Kerb (Figure 6) on and including concrete base and unreinforced concrete (15 MPa) continuous haunch at back, bedded and jointed in 20mm (6 : 1) cement mortar bed and pointing with keyed joints including all formwork, excavation, filling and ramming, etc.	m	600		
2	14	Ditto but circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc	m	50		
2		Road marking paint on concrete premix				
2	15	Line 100mm wide	m	180		
2	16	Traffic arrow as Fig 121 of SARTSM - 1970	No	4		
2	17	Road marking indicating "Disabled Parking" sign	No	2		
2	18	Road marking indicating "Stop" sign	No	2		
		Total Carried Forward to Summary				

CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		BILL NO. 3				
3		LANDSCAPING				
3		General plant material				
3		All plant material (plants, shrubs, trees, etc) shall be obtained from a registered nursery and shall be free from damaged parts, parasites, fungus, other plant diseases or insects. No container bound plants will be acceptable.				
3		Cultivation and preparation of planting areas				
3		All surface rocks and stones larger than 50mm shall be removed before commencing cultivating and preparation. The entire area shall be ripped and rotavated using approved machinery by breaking up the earth to a depth of 300 at 600mm centres in both directions, unless otherwise described, and then levelled. Where fertilizer or compost is specified, it shall be worked into the topsoil to a depth of 300mm and finished to final levels.				
		All fertilizer to areas to be grassed shall be strewn on the final layer before final finishing is commenced and worked mechanically into the top 150mm soil.				
3		Maintenance period				
3		All planted areas shall be maintained for a period of three months after practical completion as defined in the contract.				
		This maintenance shall consist of keeping clear of weeds and litter, loosening all soil where necessary, replacing damaged, diseased or dead plants, pruning, cutting and mowing as necessary and watering so as to keep the plant material in a healthy growing condition.				
3		Before planting, all areas are to be raked free of stones and other superfluous matter and brought to a weed free fine tilth by harrowing				
		The full responsibility for maintaining the grassed areas shall rest with the Contractor until the end of the maintenance period and he must allow in his prices accordingly. The maintenance shall include watering where necessary re-grassing of unsatisfactory areas and any other work which is necessary to achieve full healthy and weed free grass cover before the end of the maintenance period				
3		Ground preparation				
3	1	Cultivation and preparation of areas to be planted	m2	2000		
3		Top soil filling from stock pile by the contractor				
3	2	To landscape mounds, berms, etc	m3	1200		
3	3	Fertilizing areas to be grassed with approved suitable fertilizer	m2	2000		
3	4	"Kikuyi" grass over site.	m2	2000		
	5	Maintenance of grassed areas for a period of 3 months (total area approximately 2000m2) including regularly weeding and irrigating as necessary.	Item	1		
3		Trees				
3	6	Trees	No	20		
		Total Carried Forward to Summary				

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		BILL NO. 4				
		WATER SUPPLIES				
		<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material - for up to 110mm diameter pipes:</u>				
4	1	Not exceeding 1m deep.	m	150		
		Extra over excavation in all depths for:				
4	2	Soft rock excavations.	m	50		
4	3	Hard rock excavations.	m	20		
		<u>HDPE Class 12 water supply or similar approved including all necessary fittings</u>				
4	4	63mm diameter pipe.	m	150		
		WATER SUPPLIES TO FIRE APPLIANCES				
		<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material - for up to 110mm diameter pipes:</u>				
4	5	For depths not exceeding 1m.	m	150		
4	6	For depths exceeding 1m and not exceeding 2m.	m	20		
		Class 16 uPVC pressure pipes with rubber ring joints				
4	7	110mm diameter including all necessary fittings	m	150		
		Extra over excavation in earth for excavation in:				
4	8	Extra over item above for intermediate material.	m	10		
		Supply of bedding material from commercial sources including haulage:				
4		Class B bedding material for 110mm and 160mm diameter pipes.	m	150		
		STORMWATER DRAINAGE				
		<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material - for 450mm diameter pipes:</u>				
4	9	For depths not exceeding 1m.	m	150		
4	10	For depths exceeding 1m and not exceeding 2m.	m	10		
		Extra over excavation in earth for excavation in:				
4	11	Extra over item above for intermediate material.	m	36		
		Supply of bedding material from commercial sources including haulage:				
4	12	Class B bedding material for 450mm diameter pipes.	m	150		
		Supply, lay and bed pipes complete non-pressure pipes with couplings:				
4	13	450mm Diameter concrete with spigot and socket joint Class 100D.	m	150		
4	14	Supply and install catchpit average size 800 x 800 mm of depths varying between 1 - 2m deep internally with and including 600 x 600 mm cast iron dished grating and frame - Supply only	No	2		
4	15	Supply and install road stormwater catchpit with kerb-inlet, maximum approximate size 3 300 x 900 of depths varying between 1 - 2m deep internally and fitted with 550 mm diameter x 190 kg cast iron manhole cover and frame - Supply only	No	3		
		Testing:				
4	16	Allow for testing of the entire stormwater drainage system to Engineer's satisfaction.	Item	1		
		SOIL DRAINAGE				
		PREAMBLES				
		For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors				
		SUPPLEMENTARY PREAMBLES				
		uPVC pipes and fittings:				
		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.				

		Total Carried Forward	
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CONSTRUCTION OF DR NKOSAZANE DLAMINI ZUMA MUNICIPALITY EMERGENCY SERVICES CENTRE

BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
		<p>Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.</p> <p>Fixing of pipes: Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p>Disinfection of water pipework: Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).</p> <p>Laying, backfilling, bedding, etc., of pipes: Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled. Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200 LD : Sewers SABS 1200 LE : Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding General: Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site. As-built drawings: Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere). Excavate in all materials for trenches, backfill, compact and dispose of surplus material - for 200mm diameter pipes:</p>				
4	17	For depths not exceeding 1m.	m	100		
4	18	For depths exceeding 1m and not exceeding 2m.	m	20		
		uPVC UG pipes and fittings:				
4	19	110mm diameter.	m	120		
4	20	160mm diameter.	m	20		
		Extra over excavation in earth for excavation in:				
4	21	Extra over item above for intermediate material.	m	10		
		Supply of bedding material from commercial sources including haulage:				
4	22	Class B bedding material for 110mm and 160mm diameter pipes.	m	120		
		Supply and install manholes, etc.:				
4	23	Type A' brickwork manhole, 1000 x 1000 x average 1640mm deep complete including all necessary excavations, filling and back filling, blinding layer of concrete, reinforced concrete surface bed, concrete benching, brick walls, reinforced concrete reducer slab, opening for manhole cover (cover and frame elsewhere measured).	No	5		
4	24	1200mm diameter x 75mm thick Precast ring Manhole, average 1360mm deep complete including all necessary excavations, filling and back filling, blinding layer of concrete, reinforced concrete surface bed, concrete benching, etc (cover and frame elsewhere measured).	No	3		
		Gratings, covers and frames:				
4	25	1200mm Diameter precast light duty frame and lid size 600mm diameter	No	3		
		Testing:				
4	26	Allow for testing of the entire stormwater drainage system to Engineer's satisfaction.	Item	1		

		Total Carried Forward							
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BILL	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought Forward				
4	24	1200mm diameter x 75mm thick Precast ring Manhole, average 1360mm deep complete including all necessary excavations, filling and back filling, blinding layer of concrete, reinforced concrete surface bed, concrete benching, etc (cover and frame elsewhere measured).	No	3		
		Gratings, covers and frames:				
4	25	1200mm Diameter precast light duty frame and lid size 600mm diameter	No	2		
		Testing:				
4	26	Allow for testing of the entire stormwater drainage system to Engineer's satisfaction.	Item	1		
4		SEPTIC TANK				
4	27	Excavation in earth exceeding 2m but not exceeding 4m deep	m ³	70		
4	28	Extra-over for backfill or for fill material against structures	m ³	40		
4	29	Grade 30Mpa/19mm strength for concrete base	m ³	6		
4	30	Grade 30Mpa/19mm strength for concrete slab	m ³	5		
4	31	Unformed Concrete Surface Finishes -Wood float finish	m ²	30		
4	32	High-tensile bars of varying diameter for foundations and toilet slab	t	0,78		
4	33	High-tensile welded mesh ref 193	m ²	30		
4	34	Formwork to soffits of slab	m ²	30		
4	35	One brickwall - NFX Bricks	m ²	50		
4	36	Plaster to walls	m ²	120,0		
4	37	1200mm diameter x 75mm thick Precast ring Manhole, average 1360mm deep complete including all necessary excavations, filling and back filling, blinding layer of concrete, reinforced concrete surface bed, concrete benching, etc (cover and frame elsewhere measured).	No.	2		
4	38	1200mm Diameter precast light duty frame and lid size 600mm diameter	No.	2		
		Total Carried Forward to Summary				

		SUMMARY				
		BILL NO. 5				
5	1	SITE CLEARANCE, ETC				
5	2	DRIVEWAY AND PARKING				
5	3	LANDSCAPING				
5	4	WATER SUPPLIES				
5		SUB-TOTAL		ST		

SUMMARY OF SECTIONS

Bill No.	Description	Amount
1	PRELIMINARY & GENERAL	
2	EARTHWORKS	
3	CONCRETE, FORMWORK AND REINFORCEMENT	
4	MASONRY	
5	WATERPROOFING	
6	CARPENTRY AND JOINERY	
7	CEILINGS AND PARTITIONS	
8	TILING	
9	IRONMONGERY	
10	METALWORK	
11	PLASTERING	
12	PLUMBING AND DRAINAGE	
13	GLAZING	
14	PAINTWORK	
15	ELECTRICAL WORK	
16	EXTERNAL WORKS	
18	SUBTOTAL 1	
19	ADD 10% CONTINGENCIES	
20	SUBTOTAL 2	
24	ADD 15% VAT	
25	TOTAL CARRIED FORWARD TO COMPOSITE SUMMARY	

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C3.2: PROJECT SPECIFICATIONS & ENGINEERING	SW. 4
C3.3: MANAGEMENT OF THE WORKS	SW. 6
C3.4: COMMUNITY DEVELOPMENT AND TRAINING	SW. 11

C3: SCOPE OF WORK

C3.1: DESCRIPTION OF THE WORKS

[NOTE: This description is a broad outline of the Contract Works and does not limit the work to be executed by the Contractor in terms of the contract. The quantities of some of the major items indicated in this section are indicative, not absolute, and are provided to define in general terms the overall scope of the project. For Compiler information purposes only]

C3.1.1 Employer's Objective and Overview of the works

This contract covers the supply of all materials, labour, plant and equipment for the CONSTRUCTION OF MUNICIPAL EMERGENCY MANAGEMENT CENTRE. The project involves the construction of a fire station and associated amenities.

C3.1.2 Overview of the works

The scope of work is envisaged to include the following:

- Construction of an approximately 585m² building constructed from standard common and face brick as per bill specifications and issued working drawings.
- The building will be supported on reinforced concrete foundations as per engineer's detail and the concrete slabs will be reinforced with REF193 mesh or as per detail.
- 0.6mm Thick IBR "Chromadek" roof sheeting with "Leak King" roofing screws, including mastic sealant to all side laps (laid as per manufacturer's details) laid on timber/steel purlins at maximum 1250mm centres on steel portal frame trusses at 1250mm centres fixed to steel columns. Colour as per Project Engineers instruction.
- Finishes include a suspended ceiling, internal plaster and paint, internal and external precast "face" brick and ceramic floor tiles.
- External works include the supply and installation of a perimeter diamond wire mesh fencing, onsite sewerage disposal system, parking lot and access driveway.

RECOMMENDED BY:



Mr. S.V Mngadi
SENIOR MANAGER: PWBS

APPROVED BY:



MR. N.C. VEZI
MUNICIPAL MANAGER

C3.1.3 Location of site and access

The site is located as depicted in the Locality Plan.

C3.1.4 Ground and Subsoil Investigations

Geotechnical investigations have been undertaken on the site and the details of the subsoil conditions will be provided to the successful tenderer. Requests may be made via email by tenderers should they require a copy of the report.

C3.1.5 Ancillary works

The access road to the hall is to be widened to facilitate ease of access to the community hall once it is completed. The road is to be a 300m, 5m wide gravel access road with the layer works being for light vehicles as governed by the national standards.

C3.1.6 Climatic conditions

The proposed project area is in a high summer rainfall region with an average annual precipitation of 750-1000 mm.

C3.1.7 Labour recruitment conditions

Local labour is to be used and the employment of such labour is to be done in conjunction with the relevant project management structure that is to be formed. A Labour Committee shall be formed that shall assist the Contractor with the recruitment of local labourers to ensure an equal distribution of people employed.

It is mandatory that the Contractor shall interact with the community via proactive project liaison and project participation by its leaders and constituted organisations and forums, as well as through the employment of its people, and these activities shall constitute essential facets of the project.

C3.2: PROJECT SPECIFICATIONS & ENGINEERING

C3.2.1 General

Applicable Standard Specifications

Although not bound in or issued with this document, the following SABS 1200 Standard Specifications for Civil Engineering Construction as approved by the Council of the South African Bureau of Standards shall form part of the Contract Documents. The Contractor shall be in possession of these Standard Specifications and their related SABS 0120 Code of Practice (latest edition) which apply equally and shall keep a copy thereof on site for reference by himself or the Engineer for the duration of the Contract.

SABS 1200 A	1986 :	General
SABS 1200 AB	1986 :	Engineer's Office
SABS 1200 C	1980 :	Site Clearance (As amended 1982)
SABS 1200 D	1988 :	Earthworks (As amended 1990)
SABS 1200 DB	1989 :	Earthworks (Pipe Trenches)
SABS 1200 DK	1996 :	Gabions and Pitching
SABS 1200 DM	1981 :	Earthworks (Roads, subgrade)
SABS 1200 F	1983 :	Piling
SABS 1200 G	1982 :	Concrete (Structural)
SABS 1200 GA	1982 :	Concrete (Small Works)
SABS 1200 LB	1983 :	Bedding (Pipes)
SABS 1200 LC	1981 :	Cable Ducts
SABS 1200 LD	1982 :	Sewers
SABS 1200 LF	1983 :	Erf connections (Water)
SABS 1200 M	1996 :	Roads (General)
SABS 1200 ME	1981 :	Subbase
SABS 1200 MK	1983 :	Kerbing and Channelling
SABS 1200 LG	1983 :	Pipe Jacking
SABS 1200 MM	1984 :	Ancillary Roadworks

NOTES:

1. FOR THE PURPOSE OF THIS CONTRACT "SABS" IS TO BE REPLACED BY "SANS" FOR THE ENTIRE RANGE OF STANDARD SPECIFICATIONS.
2. COPIES OF THE STANDARDISED SPECIFICATIONS ARE AVAILABLE AT SANS, PRETORIA.
3. WHEREVER THE TERM "PROJECT SPECIFICATIONS" APPEARS IN THE STANDARDISED SPECIFICATIONS IT MUST BE REPLACED WITH THE TERM "SCOPE OF WORK"

C3.2.2 Design

- The Contractor is responsible for the Temporary Works, Site Camp and Contractor's office accommodation design.
- Site layouts for the Engineer Representative's temporary office accommodation and a Monthly Meeting venue.

The costs of the designs will be deemed to have been included in the scheduled items in the Schedule of Quantities. No other additional payments will be certified to cover these activities.

The bid drawings are applicable to the contractor are detailed in this tender document. These drawings have been used for setting up the Bills of Quantities.

C3.2.3 Quality Assurance (QA) *(Read with SANS 1921 – 1: 2004 clause 4.4)*

The Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Engineer. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site. The Engineer will audit the Contractor's quality assurance (QA) system on a regular basis to verify that adequate independent checks and tests are being carried out and to ensure that the Contractor's own control is sufficient to identify any possible quality problems which could cause a delay or failure.

The Contractor shall ensure that efficient supervisory staff, the required transport, instruments, equipment and tools are available to control the quality of his own workmanship in accordance with his QA-system. His attention is drawn to the fact that it is not the duty of the Engineer or the Engineer's representative to act as foreman or surveyor.

C3.2.4 Planning and Programme *(Read with SANS1921-1:2004 clause 4.3)*

The Contractor shall include with his tender a preliminary programme on the prescribed form to be completed by all Tenderers, as detailed in the Returnable Documents section.

The following constraints shall be considered in preparing the preliminary construction programme which must be submitted with the Tender. These same constraints shall apply to the final construction programme.

- a) The Contract time is as indicated in the contract data. Plant and personnel requirements to complete the project during the project period must be incorporated in the Tender.
- b) The relocation of services is to be determined during construction.

C3.2.5 Programme in terms of Clause 5.6 of the General Conditions of Contract

It is essential that the construction programme, which shall conform in all respects to Clause 5.6 of the General Conditions of Contract, be furnished within the time stated in the Contract Data. The preliminary programme to be submitted with the tender shall be used as basis for this programme.

C3.3: MANAGEMENT OF THE WORKS

C3.3.1 Management and disposal of water *(Read with SANS 1921 - 1 : 2004 clause 4.6)*

The Contractor shall pay special attention to the management and disposal of water and stormwater on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure to properly manage rain and surface water, will not be considered.

C3.3.2 Earthworks *(Read with SANS 1921 - 1 : 2004 clause 4.10)*

Borrow pits and spoil areas

The borrow pits to be used for this contract, where possible, shall be pointed out at the Compulsory Site Inspection. It is however the contractor's responsibility to locate the closest borrow pit which will be tested by an approved Geotechnical Engineering specialist prior to the source being used. The rate for gravel material shall be deemed to include all overhaul based on the identified borrow pits' distance.

The Contractor shall be permitted to use only those borrow pits approved by the Engineer. The spoil sites shall be determined on site in conjunction with the Engineer and the Municipality. The Contractor shall be permitted to use only those spoil areas approved by the Engineer. Should the Contractor wish to use any other tip area for the disposal of soil, rubble, vegetation, etc., its use shall be subject to the approval of the Engineer and the landowner.

C3.3.3 Testing *(Read with SANS 1921 - 1 : 2004 clause 4.11)*

Process control

The Contractor shall arrange for all tests required for process control to be done by a laboratory acceptable to and approved by the Engineer.

The Contractor may establish his own laboratory on site or he may employ the services of an independent commercial laboratory. Whatever method is used, the Contractor must submit the results of tests carried out on materials and workmanship when submitting work for acceptance by the Engineer. The costs for these tests shall be deemed to be included in the relevant rates and no additional payment will be made for testing as required.

Acceptance control

The process control test results submitted by the Contractor for approval of materials and workmanship may be used by the Engineer for acceptance control. However, before accepting any work, the Engineer may have further control tests carried out by a laboratory of his choice. The cost of such additional tests will be covered by a provisional sum provided in the schedule of quantities, but tests that failed to confirm compliance with the specifications, will be for the account of the Contractor.

C3.3.4 Site Establishment *(Read with SANS 1921 - 1 : 2004 clause 4.14)*

Contractor's camp site and depot

The Contractor is responsible to provide a suitable site for his camp and to provide accommodation for his personnel and labourers. If the Employer can make any specific site available to the Contractor, such site will be pointed out to the Contractor.

The Contractor is responsible to provide a suitable site for his camp and to provide accommodation for his personnel and labourers. If the Employer can make any specific site available to the Contractor, such site will be pointed out to the Contractor.

The chosen site shall be subject to the approval of the Engineer and the municipality. Possible locations for a campsite shall be pointed out at the Site inspection. The Contractor shall conform to

all local authority, environmental and industrial regulations.

The Contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment shall be made for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

The Contractor shall provide security watchmen for the contract as he deems fit at no extra cost for the Employer. The Contractor must ensure that all his employees as well as the employees of his subcontractors are able to identify themselves as members of the construction team.

C3.3.5 Accommodation of Employees

No employees except for security guards will be allowed to sleep or be accommodated on the site in urban areas.

No housing is available for the Contractor's employees and the Contractor shall make his own arrangements to house his employees and to transport them to site.

No informal housing or squatting will be allowed.

The Contractor shall provide the necessary ablution facilities at his camp site and the site of the works for the use of his employees. Chemical toilets only will be allowed where temporary facilities have to be provided.

C3.3.6 Survey beacons (Read with SANS 1921 - 1 : 2004 clause 4.15)

The Contractor shall take special precautions to protect all permanent survey beacons or pegs such as bench-marks, stand boundary pegs and trigonometrical beacons, regardless whether such beacons or pegs were placed before or during the execution of the Contract. If any such beacons or pegs have been disturbed by the Contractor or his employees, the Contractor shall have them replaced by a registered land surveyor at his own cost.

C3.3.7 Existing Services (Read with SANS 1921 - 1 : 2004 clause 4.17)

There are no existing master plans for all the existing services in the project area. To this end, the Contractor shall prove and acquaint himself with the positions of **all** existing services before any excavation or other work likely to affect the existing services is commenced.

The Contractor will be **held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense.** Damage to unknown services shall be repaired as soon as possible and liability shall be determined on site when such damage should occur.

Services belonging to the following service owners are indicated on the drawings:

Service owner	Type of service
----------------------	------------------------

- | | |
|-----------|--|
| a) Eskom | Overhead and underground cables, timber poles and distribution boxes |
| b) Telkom | Underground cables and distribution boxes |
| c) Water | Underground water pipelines, concrete chambers and marker posts |
| d) Sewer | Underground sewer pipelines, concrete chambers and marker posts |

Provisional amounts are included in the bill of quantities for the said services. Prior to commencing construction activities in a particular area, the Contractor shall also diligently enquire of local landowners as to whether there are any other known services which have not been shown on the drawings, but which may be affected by the construction activities in that area, and any such services shall be brought to the attention of the Engineer immediately.

The Contractor shall take note of the requirements of clause 1202 of the standard specifications regarding services.

C3.3.8 Health and Safety (Read with SANS 1921 - 1: 2004 clause 4.18)

C3.3.8.1 General statement

It is a requirement of this contract that the Contractor shall provide a safe and healthy working environment and to direct all his activities in such a manner that his employees and any other persons, who may be directly affected by his activities, are not exposed to hazards to their health and safety. To this end the Contractor shall assume full responsibility to conform to all the provisions of the Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the OHS Act 1993 Construction Regulations 2003 issued on 18 July 2003 by the Department of Labour.

For this contract the Contractor is required to confirm his status as mandatory and employer in his own right for the execution of the contract by entering into an agreement with the Employer in terms of the Occupational Health and Safety Act in the form as included in section C1.2.4

C3.3.8.2 Health and Safety Specifications and Plans

(a) Employer's Health and Safety Specification

The Employer's Health and Safety Specification will be included in the tender documents as part of the Project Specifications.

[Note to compiler: The Employer's Safety Specification is available and must be included]

(b) Tenderer's Health and Safety Plan

The Tenderer shall submit with his tender his own documented Health and Safety Plan he proposes to implement for the execution of the work under the contract. His Health and Safety Plan must at least cover the following:

- i. a proper risk assessment of the works, risk items, work methods and procedures in terms of Regulations 7 to 28;
- ii. pro-active identification of potential hazards and unsafe working conditions;
- iii. provision of a safe working environment and equipment;
- iv. statements of methods to ensure the health and safety of subcontractors, employees and visitors to the site, including safety training in hazards and risk areas (*Regulation 5*);
- v. monitoring health and safety on the site of works on a regular basis, and keeping of records and registers as provided for in the Construction Regulations;
- vi. details of the Construction Supervisor, the Construction Safety Officers and other competent persons he intends to appoint for the construction works in terms of Regulation 6 and other applicable regulations; and
- vii. details of methods to ensure that his Health and Safety Plan is carried out effectively in accordance with the Construction Regulations 2003.

The Contractor's Health and Safety Plan will be subject to approval by the Employer, or amendment if necessary, before commencement of construction work. The Contractor will not be allowed to commence work, or his work will be suspended if he had already commenced work, before he has obtained the Employer's written approval of his Health and Safety Plan.

Time lost due to delayed commencement or suspension of the work as a result of the Contractor's failure to obtain approval for his safety plan, shall not be used as a reason to claim for extension of time or standing time and related costs

C3.3.8.3 Cost of compliance with the OHS Act Construction Regulations

The rates and prices tendered by the Contractor shall be deemed to include all costs for conforming to the requirements of the Act, the Construction Regulations and the Employer's Health and Safety Specification as applicable to this contract.

Should the Contractor fail to comply with the provisions of the Construction Regulations, he will be liable for penalties as provided in the Construction Regulations and in the Employer's Health and Safety Specification.

C3.3.8.4 Management of the environment (Read with SANS 1921 - 1: 2004 clause 4.19)

Respect for the environment is an important aspect of this contract and the Contractor shall pay special attention to the following:

(a) Natural Vegetation

The Contractor shall confine his operation to the limits of the road reserve for constructing the works and where applicable detours, shall be sited in consultation with the Engineer and the local communities.

Only those trees and shrubs directly affected by the works and those the Engineer may directly instruct, shall be cut down and stumped. The natural vegetation, grassing and other plants shall not be disturbed other than in areas where it is essential for the execution of the work or where directed by the Engineer.

(b) Fires

The Contractor shall comply with the statutory and local fire regulations. He shall also take all necessary precautions to prevent any fires. In the event of fire the Contractor shall take active steps to limit and extinguish the fire and shall accept full responsibility for damages and claims resulting from such fires which may have been caused by him or his employees.

(c) Environmental Management Plan

In addition to the above all requirements according to the Environmental Management Framework prepared by the Municipality, and the project specific Environmental Management Plan will be adhered to.

C3.3.9 EPWP Alignment Clauses

C3.3.9.1 (1.2) Personal & Other Protective Equipment (Sections 8/15/23 or the OHS Act)

The Contractor is required to identify the hazards in the workplace and deal with them. He must either remove them or, where impracticable take steps to protect workers and make it possible for them to work safely and without risk to health under the hazardous conditions.

Personal Protective equipment (PPE) should, however, be the last resort and there should always first be an attempt to apply engineering and other solutions to mitigating hazardous situations before the issuing of PPE is considered.

Where it is not possible to create an absolutely safe and healthy workplace the Contractor is required to inform employees regarding this and issue, free of charge, suitable equipment to protect them from any hazards being present and that allows them to work safely and without risk to health in the hazardous environment.

It is a further requirement that the said equipment be maintained by the Contractor, that he instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s.

Employees do not have the right to refuse to use/wear the equipment prescribed by the employer and, if it is impossible for an employee to use or wear prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition/s for which the equipment was prescribed but an alternative solution has to be found that may include relocating or discharging the employee.

The Contractor may not charge any fee for protective equipment prescribed by him/her but may charge for equipment under the following conditions:

- Where the employee requests additional issue in excess of what is prescribed
- Where the employee has patently abused or neglected the equipment leading to early failure
- Where the employee has lost the equipment

All employees shall, as a minimum, be required to wear the following PPE on any infrastructure projects:

Protective overalls

- Protective footwear
- Protective headwear
- Eye/face protection

All PPE provided to local labour working on the Expanded Public Works Programme shall be branded in accordance with the EPWP CI Manual. Typical elements which shall be branded include:

- Protective overalls
- Reflective vests
- Protective headwear

The rate for local labour shall include for the supply of EPWP branded PPE in accordance with the Provincial EPWP specifications. The rate shall include the additional cost of the specified colours for the PPE and branding in accordance with CI manual.

C3.3.9.2 (B1231) COMMUNITY LIAISON OFFICER (CLO)

The contractor or his appointed agent will appoint a Community Liaison Officer (CLO) after consultation with the local communities, the engineer and the employer. The contractor shall direct all his liaison efforts with the local communities through the appointed officer. The contractor shall, however, accept the appointed as part of his management personnel.

(a) Duties of the Community Liaison Officer

The Community Liaison Officer's duties will be:

- (i) To be available on site daily between the hours of ___(insert time) and ___(insert time) and at other time as the need arises. His normal working day will extend from ___morning until ___(insert time) in the afternoon.
- (ii) To determine, in consultation with the contractor, the needs of the temporary labour for relevant skills training. He will be responsible for the identification of suitable trainees and will attend one of each of the training sessions.
- (iii) To communicate daily with the contractor and the engineer to determine the labour requirements regarding numbers and skill, to facilitate in labour disputes and to assist in their resolution.
- (iv) To assist in and facilitate in the recruitment of suitable temporary labour and the establishment of a "labour desk".
- (v) To attend all meetings in which the community and/or labour are present or are required to be represented.
- (vi) To assist in the identification, and screening of labourers from the community in accordance with the contractor's requirements.
- (vii) To inform temporary labour of their conditions of temporary employment and to inform temporary labourers as early as possible when their period of employment will be terminated.
- (viii) To attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- (ix) To keep a daily written record of his interviews and community liaison.
- (x) To attend monthly site meetings to report on labour and RDP matters.
- (xi) All such other duties as agreed upon between all parties concerned.
- (xii) To submit monthly returns regarding community liaison.

(b) Payment for the community liaison officer

A special pay item is incorporated in section 1200 of the bill of quantities relating to payment of the liaison officer on a prime cost sum basis. This payment shall only be made for the period for which the duties of the liaison officer are required and not necessarily for the full duration of the contract. The remuneration of the CLO shall be determined jointly by the contractor, engineer and employer.

(c) Period of employment of the community liaison officer

The period of employment of the community liaison officer shall be as decided upon jointly by the contractor, engineer and employer.

C3.4: COMMUNITY DEVELOPMENT AND TRAINING

PART A

In line with the municipality's COMPULSORY SUBCONTRACTING policy, as captured in clause 2 (1) (a) (ii) of the approved *Supply Chain Management Policy*, "all contracts with a value from R5 000 000 and above" are subject to a compulsory subcontracting. In terms of this clause, the successful Tenderer (Main contractor) is compelled to Sub-contracting a minimum of 30 % of the contract value. The subcontract firms shall be;

- in the Level 1 CIDB grading category of the specific project category (GB, CE, etc.);
- residents of DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY,
- Black owned emerging contractor entities. Preference should be given to youth, disabled and female contractors or co-operatives.

The 30% requirement shall not be made up entirely of construction materials sourcing, this aspect will be capped at 10%.

Allocations will be made within the Bill of Quantities for specific works to be done by subcontractors, with an allocation for the full-time supervision by the Main Contractor. The works produced by the subcontractor is solely the responsibility of the Main Contractor.

A list of subcontractors meeting a pre-qualifying criterion will be provided to the Main Contractor by the municipality. However, the municipality indemnifies itself from any claim that may arise in the event of a dispute herein.

PART B

Furthermore, the South African Government has undertaken to drive the "radical economic" transformation of marginalized and previously disadvantaged individuals. The Tenderer must submit a proposal for other proposed Economic Transformation Strategies that may be employed to meet the national economic transformation goals. The proposal may include but is not limited to the following.

C3.4.1 Education and Training

This may include contributions to the communities that endeavour to build schools and classrooms as well as outreach and special programmes for the betterment of the intended beneficiaries.

C3.4.2 Skills Development

Programmes that are aimed at improving skills levels in communities with the objective to earn a living and become self-sustainable.

C3.4.3 Job Creation

Support of job creation projects that are external to this contract and are aimed at creating self-sustainability for individuals and small enterprise entities.

C3.4.3 Community support

Medical, primary healthcare and welfare projects (e.g. food schemes) within the communities in which the Contractor is operating may be considered and may also be non-monetary, such as organisational, administrative support, time spent by staff to help to organise an event, project or training for a beneficiary, etc. This may also include Community Aids awareness programmes aligned to government programmes.

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C4: SITE INFORMATION

C4.1: LOCALITY PLAN

The location of the site is as per the attached Locality Plan.

C4.1.1: Access

The site shall not only include the proclaimed road reserve but shall be extended in the broader sense to take account of all areas occupied by the Contractor, be it deliberate or unintentional, in the execution of the contract. Incidental intrusion into private or tribal property outside the road reserve shall not be permitted without the owner's written authority. Any such agreement reached with a private or tribal landowner (occupier) shall include the proviso that any material or equipment on that site shall remain the exclusive property of the Employer in terms of the contract

C4.2.1: Geotechnical Report

The detailed Geotechnical investigation was undertaken, and a Geotechnical Report prepared. The report will be emailed to tenderers upon request.

C4.2: DRAWINGS

The drawings issued to tenders as part of the tender documents must be regarded as provisional and preliminary for the tenderer's benefit to generally assess the scope of work. The drawings are issued as a separate book of drawings. The work shall be carried out in accordance with the latest available revision of the drawings approved for construction (AFC)

At commencement of the contract, the Engineer shall deliver to the Contractor copies of the AFC drawings and any instructions required for the commencement of the works. From time to time thereafter during the progress of the works, the Engineer may issue further drawings for construction purposes as may be necessary for adequate construction, completion and defects correction of the works.

All drawings and specifications and copies thereof remain the property of the Employer, and the Contractor shall return all drawings and copies thereof to the Employer at the completion of the contract.

C4.2.1 List of drawings attached

Tender drawings are issued separately and are listed hereunder:

Site Layout Plan	K033 – B1T - 100
Floor Plan Layout	K033 – B1T - 101
Building Elevation and Details	K033 – B0T - 103
Foundation Plan Layout and Details	K033 – B1T - 104
Surface Bed Layout	K033 – B1T - 105
First Floor and Stairs Details	K033 – B1T - 106
Structural Slabs and Beams Details	K033 – B1T - 200
Windows and Door Schedule	K033 – B1T - 201
Finishes and Specifications	K033 – B1T - 202

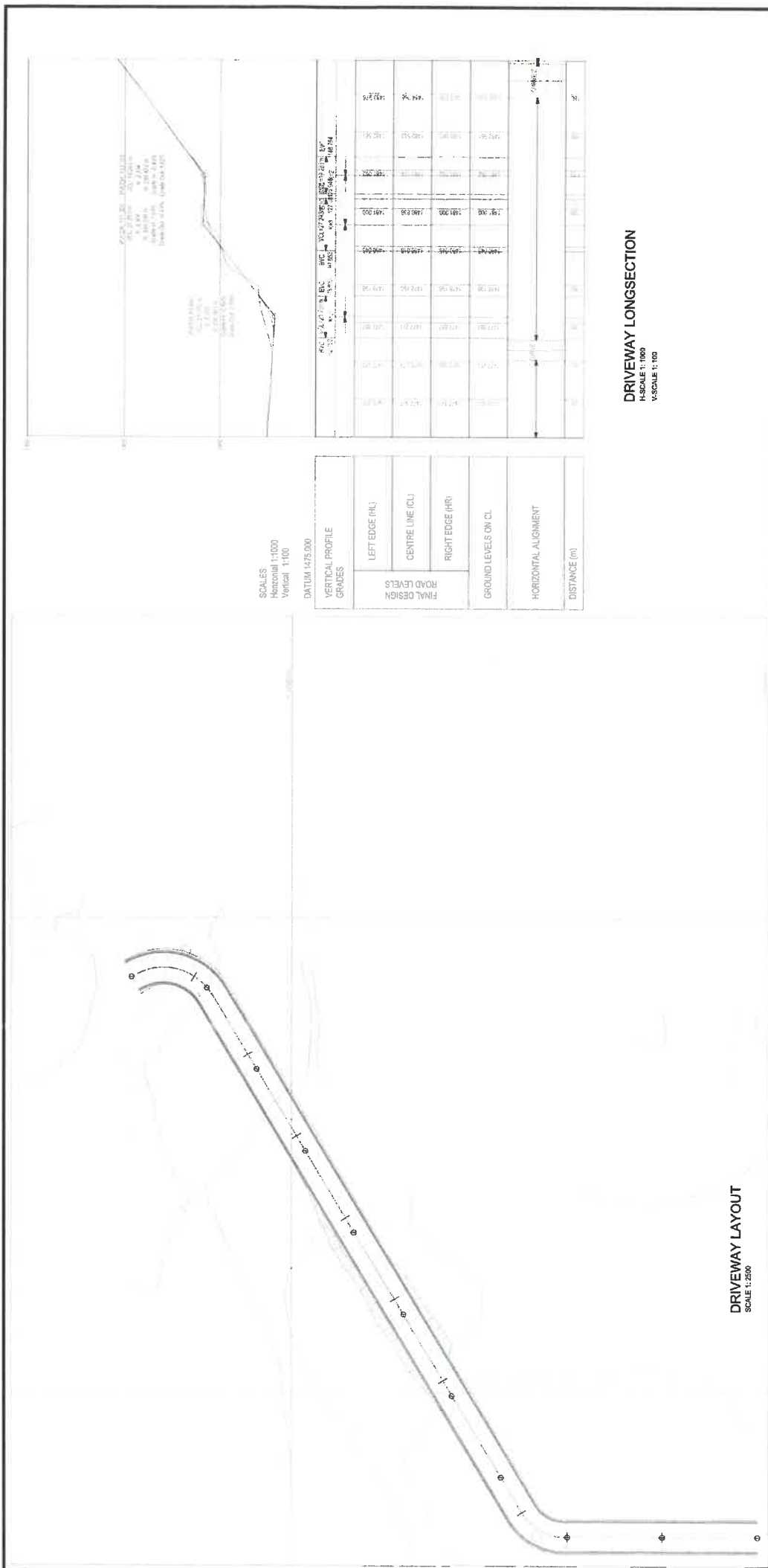
This is to certify that I have read and checked this document and it is in line with National and Provincial Treasury Requirements/Regulations.

Prepared by:

CHAIRPERSON OF BSC: *A. Dlamini*.....
DATE:

SIGNATURE: *A. Dlamini*

MANAGER SUPPLY CHAIN MANAGEMENT:
DATE:



DRIVEWAY LAYOUT
SCALE 1:250

SCALES
Horizontal 1:1000
Vertical 1:100

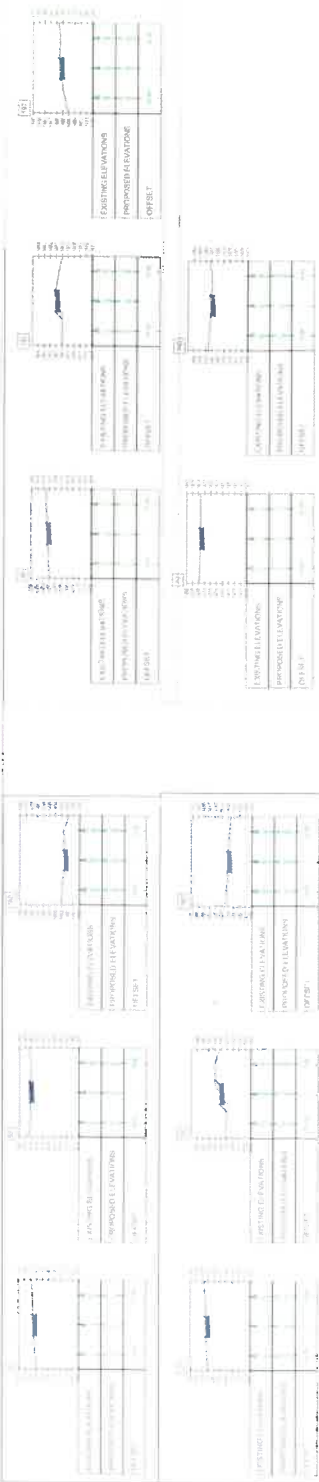
DATUM 1475.000

VERTICAL PROFILE GRADES

FINAL DESIGN ROAD LEVELS		GROUND LEVELS ON CL		HORIZONTAL ALIGNMENT		DISTANCE (m)
LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)				
150.000	147.500	147.500	147.500	147.500	147.500	0.00
150.000	147.500	147.500	147.500	147.500	147.500	10.00
150.000	147.500	147.500	147.500	147.500	147.500	20.00
150.000	147.500	147.500	147.500	147.500	147.500	30.00
150.000	147.500	147.500	147.500	147.500	147.500	40.00
150.000	147.500	147.500	147.500	147.500	147.500	50.00
150.000	147.500	147.500	147.500	147.500	147.500	60.00
150.000	147.500	147.500	147.500	147.500	147.500	70.00
150.000	147.500	147.500	147.500	147.500	147.500	80.00
150.000	147.500	147.500	147.500	147.500	147.500	90.00
150.000	147.500	147.500	147.500	147.500	147.500	100.00
150.000	147.500	147.500	147.500	147.500	147.500	110.00
150.000	147.500	147.500	147.500	147.500	147.500	120.00
150.000	147.500	147.500	147.500	147.500	147.500	130.00
150.000	147.500	147.500	147.500	147.500	147.500	140.00
150.000	147.500	147.500	147.500	147.500	147.500	150.00
150.000	147.500	147.500	147.500	147.500	147.500	160.00
150.000	147.500	147.500	147.500	147.500	147.500	170.00
150.000	147.500	147.500	147.500	147.500	147.500	180.00
150.000	147.500	147.500	147.500	147.500	147.500	190.00
150.000	147.500	147.500	147.500	147.500	147.500	200.00
150.000	147.500	147.500	147.500	147.500	147.500	210.00
150.000	147.500	147.500	147.500	147.500	147.500	220.00
150.000	147.500	147.500	147.500	147.500	147.500	230.00
150.000	147.500	147.500	147.500	147.500	147.500	240.00
150.000	147.500	147.500	147.500	147.500	147.500	250.00
150.000	147.500	147.500	147.500	147.500	147.500	260.00
150.000	147.500	147.500	147.500	147.500	147.500	270.00
150.000	147.500	147.500	147.500	147.500	147.500	280.00
150.000	147.500	147.500	147.500	147.500	147.500	290.00
150.000	147.500	147.500	147.500	147.500	147.500	300.00

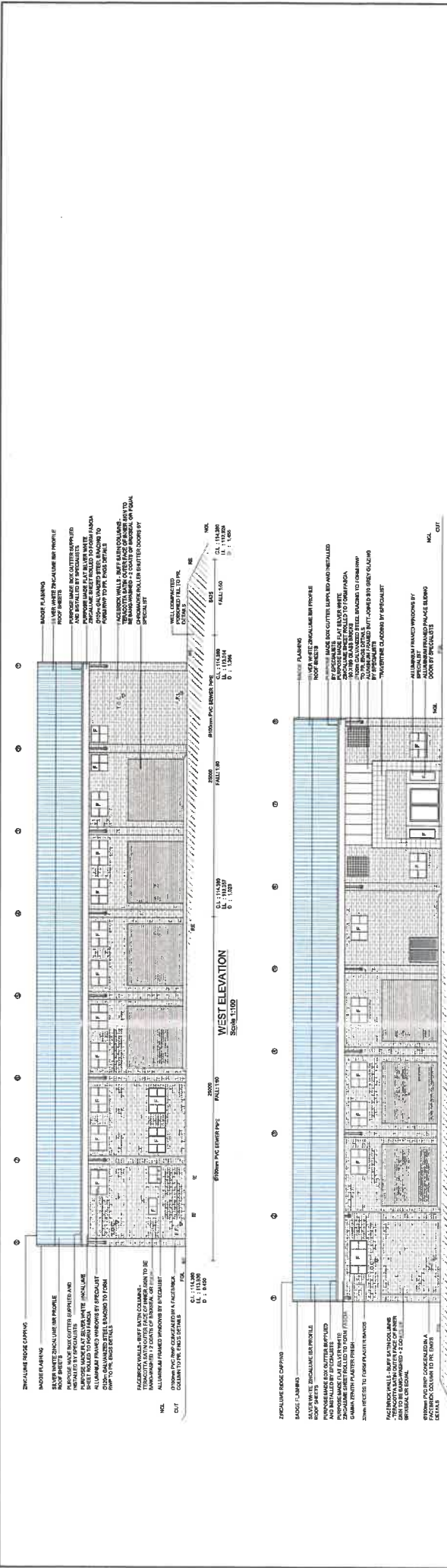
DRIVEWAY LONGSECTION
H-SCALE 1:1000
V-SCALE 1:100

DRIVEWAY CROSS SECTIONS
H-SCALE 1:200
V-SCALE 1:100



<p>PROJECT INFORMATION TITLE DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF EMERGENCY SERVICES CENTRE DRIVEWAY LAYOUT, CROSS SECTIONS AND LONG SECTION</p>		<p>DATE AS SHOWN</p>		<p>PROJECT No. M33-BOT-102</p>	
		<p>PROJECT No. M33-BOT-102</p>		<p>DATE T</p>	
<p>CLIENT DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY EMERGENCY SERVICES CENTRE 1234 MAIN ROAD DURBAN 4001 TEL: 031 234 5678 FAX: 031 234 5679 www.dz.gov.za</p>		<p>PROJECT ADDRESS DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY EMERGENCY SERVICES CENTRE 1234 MAIN ROAD DURBAN 4001 TEL: 031 234 5678 FAX: 031 234 5679 www.dz.gov.za</p>		<p>PROJECT ADDRESS DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY EMERGENCY SERVICES CENTRE 1234 MAIN ROAD DURBAN 4001 TEL: 031 234 5678 FAX: 031 234 5679 www.dz.gov.za</p>	
<p>DESIGNED L. NKOSAZANA</p>		<p>CHECKED L. NKOSAZANA</p>		<p>REGISTERED L. NKOSAZANA</p>	
<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>	
<p>PROJECT ENGINEER L. NKOSAZANA</p>		<p>PROJECT ENGINEER L. NKOSAZANA</p>		<p>PROJECT ENGINEER L. NKOSAZANA</p>	
<p>REGISTERED L. NKOSAZANA</p>		<p>REGISTERED L. NKOSAZANA</p>		<p>REGISTERED L. NKOSAZANA</p>	
<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>	
<p>PROJECT ENGINEER L. NKOSAZANA</p>		<p>PROJECT ENGINEER L. NKOSAZANA</p>		<p>PROJECT ENGINEER L. NKOSAZANA</p>	
<p>REGISTERED L. NKOSAZANA</p>		<p>REGISTERED L. NKOSAZANA</p>		<p>REGISTERED L. NKOSAZANA</p>	
<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>		<p>DATE 15/10/2024</p>	





NO.	REVISION	DATE	CHECKED	DESIGNED	PROJECT ENGINEER	CONSULTING ENGINEER	CLIENT	PHYSICAL ADDRESS	POSTAL ADDRESS	PROFESSIONAL TITLE
T	ISSUED FOR TENDER	13/04/2021	L. HARPER	N. EYVANA	N. EYVANA	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE		
A	SUBMISSION AND TOWN PLANNING SUBMISSION	19/02/2021	L. HARPER	N. EYVANA	N. EYVANA	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE		
A	ISSUED FOR APPROVAL	19/11/2020	L. HARPER	N. EYVANA	N. EYVANA	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	PHYSICAL ADDRESS: MAIN STREET DUNDEE 3523 PRESTON JH 1	DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE		
A	DESCRIPTION OF REVISIONS									

CONTRACT NO. PWMS-B0027122

PRODUCT NO. R033

SHEET 1 OF 1

DRAWING NO. 0023-3017-103

REVISION T

SCALE 1:100

ORIGINAL DRAWINGS

0 50 100mm

PROFESSIONAL TITLE

DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY

THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE

ELEVATION, SECTIONS AND DETAILS

CLIENT

PHYSICAL ADDRESS:
MAIN STREET
DUNDEE
3523
PRESTON
JH 1

POSTAL ADDRESS:
DUNDEE
3523
PRESTON
JH 1

CONTACT NO: 083 3017 103

EMA
ENGINEERING ARCHITECTURE

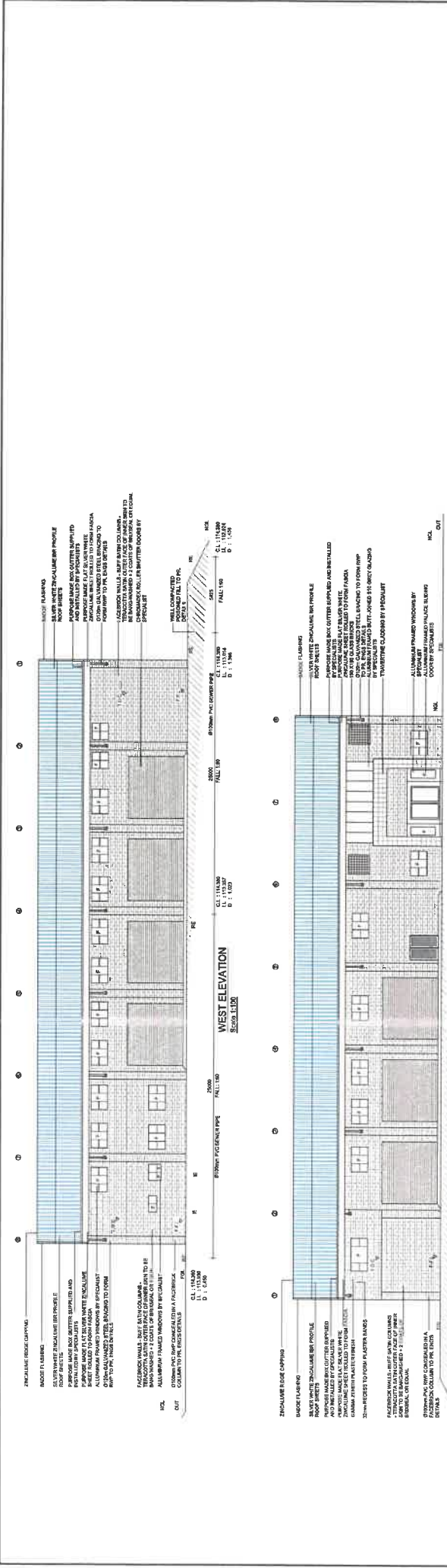
REGISTERED ENGINEER (NO. 2019/08/23) (SOUTH AFRICA)

CONSULTING ENGINEER

PHYSICAL ADDRESS:
MAIN STREET
DUNDEE
3523
PRESTON
JH 1

POSTAL ADDRESS:
DUNDEE
3523
PRESTON
JH 1

CONTACT NO: 083 3017 103



WEST ELEVATION
Scale 1:100

EAST ELEVATION
Scale 1:100

SECTION A - A
Scale 1:20

SECTION B - B
Scale 1:20

CLIENT: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
PHYSICAL ADDRESS: PO BOX 1000, ZUMABURGH, PRETORIA 001
CONTACT: 011 461 1111

CONSULTING ENGINEER: P. RUSCH
PHYSICAL ADDRESS: 14, FIVEMILE QUARTER, 3410
CONTACT: 011 461 1111

PROJECTING ENGINEER: L. PIVANA
PHYSICAL ADDRESS: 14, FIVEMILE QUARTER, 3410
CONTACT: 011 461 1111

PROJECT ENGINEER: L. WIPPER
PHYSICAL ADDRESS: 14, FIVEMILE QUARTER, 3410
CONTACT: 011 461 1111

DATE: 18/11/2022

ISSUED FOR TENDER: A1

APPROVED: [Signature]

CONTRACT NO.: PWRS-0003/22

PROJECT NO.: 0003

SHEET: 1 OF 1

DRAWING NO.: K082401/103

REVISION: T

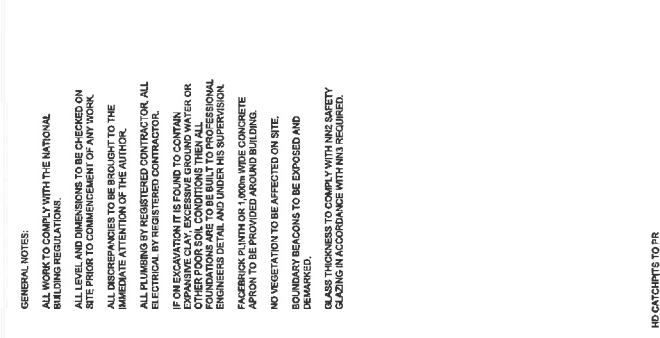
PROJECT DRAWING TITLE: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
ELEVATION, SECTIONS AND DETAILS

ELECTRICAL LEGEND

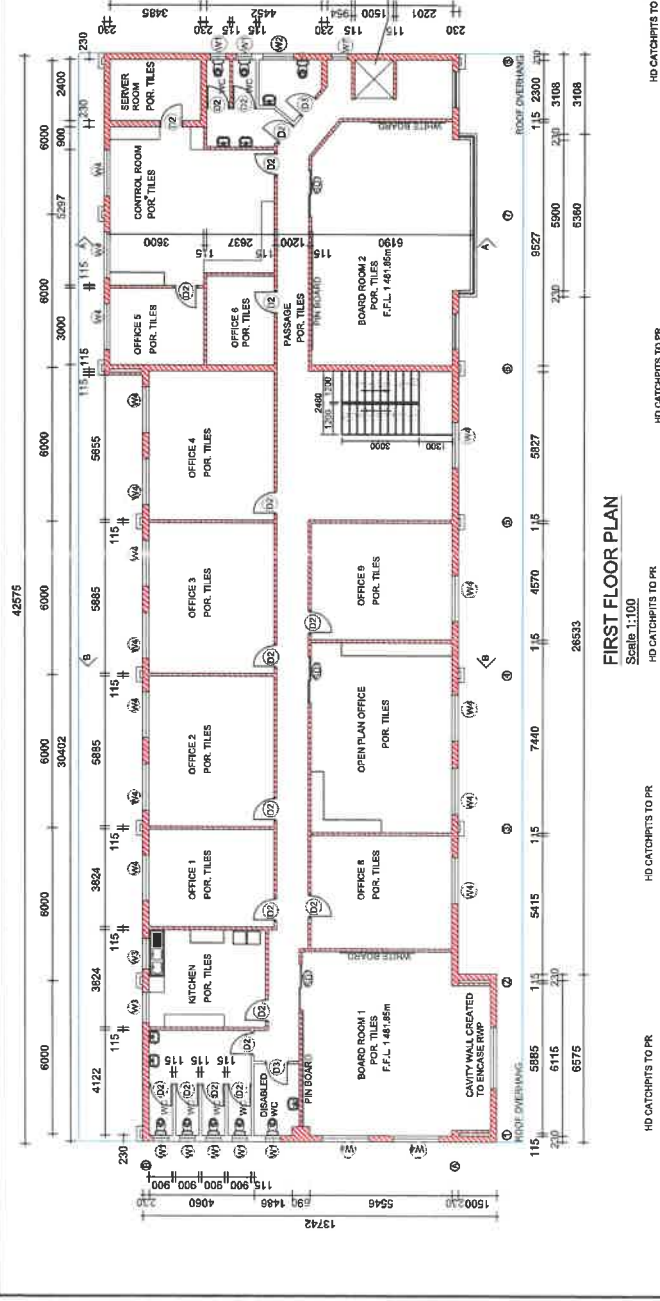
SYMBOL	DESCRIPTION
CC 20	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 21	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 22	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 23	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 24	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 25	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 26	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 27	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 28	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 29	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 30	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 31	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 32	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 33	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 34	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 35	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 36	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 37	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 38	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 39	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 40	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 41	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 42	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 43	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 44	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 45	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 46	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 47	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 48	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 49	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER
CC 50	12x 12x 12 HALOGEN ALUMINIUM ADJUSTABLE DOWN LIGHTER

GENERAL NOTES:

- ALL WORK TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS.
- ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.
- IMMEDIATE ATTENTION OF THE AUTHOR.
- ALL DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE AUTHOR.
- ALL PLUMBING BY REGISTERED CONTRACTOR. ALL ELECTRICAL BY REGISTERED CONTRACTOR.
- IF ON EXCAVATION IT IS FOUND TO CONTAIN OTHER PIPES OR CONDUITS, STOP WORK AND CONSULT THE AUTHOR IMMEDIATELY. THE PROFESSIONAL ENGINEERS DETAIL AND UNDER HIS SUPERVISION APPROXIMATE POSITION OF ANY PIPES AND CONDUITS TO BE PROVIDED AROUND BUILDING.
- BOUNDARY BEGONS TO BE EXPOSED AND DEMARKED.
- GLASS DOORS TO BE SUPPLIED AND INSTALLED BY A SPECIALIST.
- WHEELCHAIR LIFT RAMP AND INSTALLED BY A SPECIALIST.



FIRST FLOOR PLAN
Scale 1:100



GROUND FLOOR PLAN
Scale 1:100

NOTE:

- CONTRACTOR TO PROVIDE ISOLATOR FOR ALL CONNECTIONS TO ALL ELECTRICAL EQUIPMENT IN RECREATIONAL AREA AND BOARDROOM ALLOW POWER POINT FOR HAND DRIVERS.
- CONTRACTOR TO PROVIDE POINT FOR EXTRACTOR FANS TO CHANGE ROOMS.
- ALLOW SLEEP FROM DB FOR GARDEN LIGHTING.
- ALLOW SLEEP FROM DB FOR REMOTE SLEEPING DRIVEWAY.
- ALLOW SLEEP FOR TELEPHONE POINTS.
- ALLOW SLEEP FOR ALARM SIREN.

NO	REVISION/DESCRIPTION	DATE	CHECKED	APPROVED
1	ISSUED FOR TENDER	15/03/2021	L. HAMER	N. FUJAMA
2	AT SUBMISSION AND TOWN PLANNING SUBMISSION	17/03/2021	L. HAMER	N. FUJAMA
3	REVISION ON APPROVAL	19/03/2021	L. HAMER	N. FUJAMA
4	DESCRIPTION OF REVISIONS	19/03/2021	L. HAMER	N. FUJAMA

DESIGNED: P. FUJAMA
DRAWN: K. MITRABAU
CHECKED: K. FUJAMA
PROJECT ENGINEER: N. FUJAMA
REGISTRATION NO.: 201070221

PROJECT/WORK TITLE: DR MKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
FLOOR PLAN LAYOUT

SCALE: 1:100
SHEET: 1 OF 1
CONTRACT NO.: PWS/SH/02/1/2
PROJECT NO.: K033
DRAWING NO.: K033-BIT-01
REVISION: 1

CONSULTING ENGINEER: EMA CONSULTANTS
PHYSICAL ADDRESS: 8 VORSTER ROAD, SUITE 201, PRETORIA 0001
CONTACT: 011 461 2371
EMAIL: info@emaconsultants.co.za

CLIENT: DR MKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
PHYSICAL ADDRESS: MAIN STREET, PRETORIA 0001
CONTACT: 011 461 2371
EMAIL: info@mkosazana.co.za

POSTAL ADDRESS: PO BOX 100, PRETORIA 0001
CONTACT: 011 461 2371
EMAIL: info@mkosazana.co.za

POSTAL ADDRESS: PO BOX 100, PRETORIA 0001
CONTACT: 011 461 2371
EMAIL: info@mkosazana.co.za

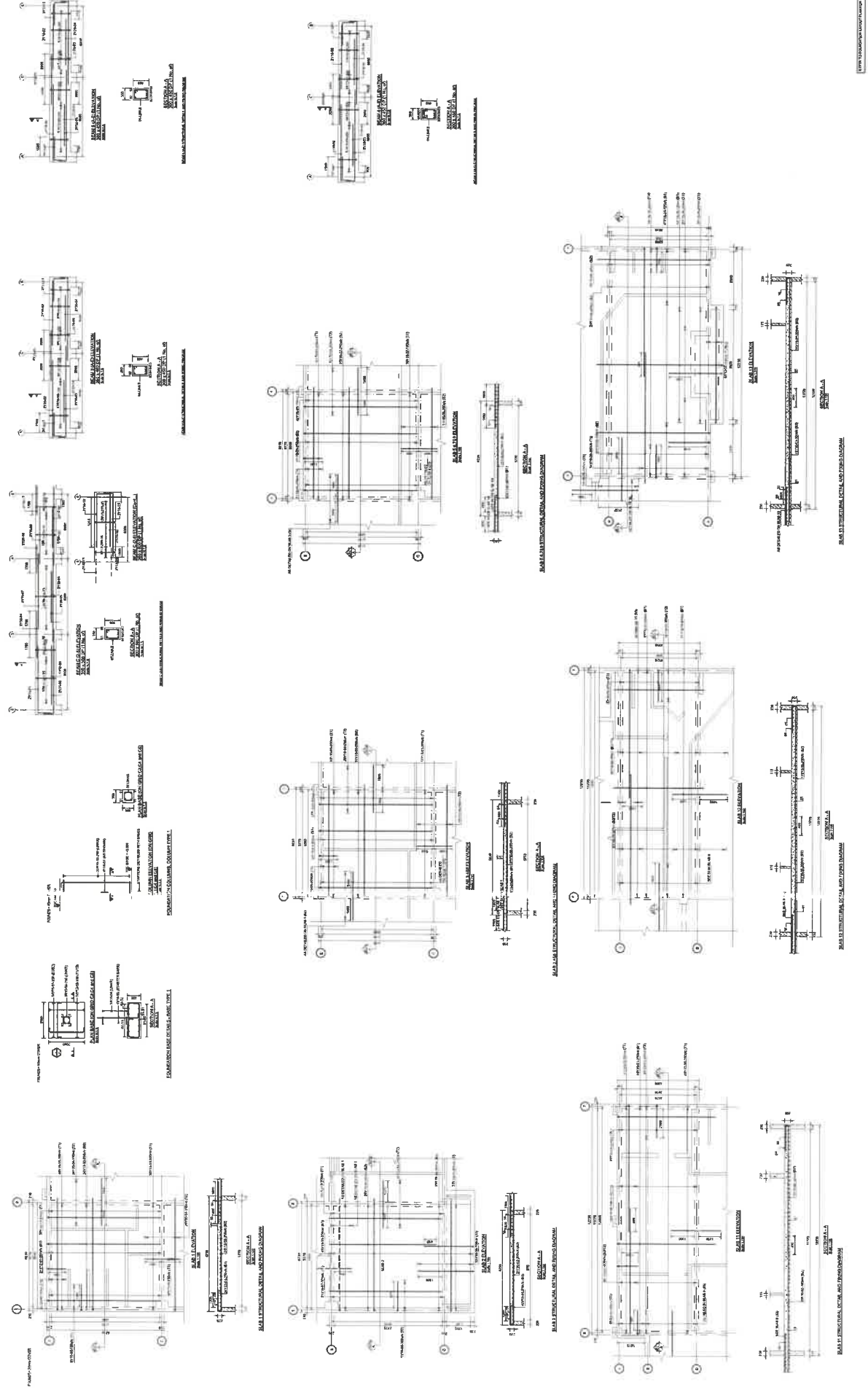
PROJECT/WORK TITLE: DR MKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
FLOOR PLAN LAYOUT

NO	REVISION/DESCRIPTION	DATE	CHECKED	APPROVED
1	ISSUED FOR TENDER	15/03/2021	L. HAMER	N. FUJAMA
2	AT SUBMISSION AND TOWN PLANNING SUBMISSION	17/03/2021	L. HAMER	N. FUJAMA
3	REVISION ON APPROVAL	19/03/2021	L. HAMER	N. FUJAMA
4	DESCRIPTION OF REVISIONS	19/03/2021	L. HAMER	N. FUJAMA

DESIGNED: P. FUJAMA
DRAWN: K. MITRABAU
CHECKED: K. FUJAMA
PROJECT ENGINEER: N. FUJAMA
REGISTRATION NO.: 201070221

POSTAL ADDRESS: PO BOX 100, PRETORIA 0001
CONTACT: 011 461 2371
EMAIL: info@mkosazana.co.za

PROJECT/WORK TITLE: DR MKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
FLOOR PLAN LAYOUT



CONTRACT NO.	PVMS-0002/122
PROJECT NO.	K033-811-200
SHEET	1
OF	1
DRAWING NO.	K033-811-200
REVISION	T

PROJECT/WORK TITLE
DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
STRUCTURAL DETAILS: SLABS AND BEAMS

CLIENT
 LOCAL MUNICIPALITY
 DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
 MAIN STREET
 PHASE 1
 PHASE 2
 PHASE 3
 PHASE 4
 PHASE 5
 PHASE 6
 PHASE 7
 PHASE 8
 PHASE 9
 PHASE 10
 PHASE 11
 PHASE 12
 PHASE 13
 PHASE 14
 PHASE 15
 PHASE 16
 PHASE 17
 PHASE 18
 PHASE 19
 PHASE 20

CONSULTING ENGINEER
 PHYSICAL ADDRESS:
 MAIN STREET
 PHASE 1
 PHASE 2
 PHASE 3
 PHASE 4
 PHASE 5
 PHASE 6
 PHASE 7
 PHASE 8
 PHASE 9
 PHASE 10
 PHASE 11
 PHASE 12
 PHASE 13
 PHASE 14
 PHASE 15
 PHASE 16
 PHASE 17
 PHASE 18
 PHASE 19
 PHASE 20

DESIGNED
 CHECKED
 DRAWN
 PROJECT ENGINEER
 REGISTRATION NO.: 2011/03/23

DATE
 CHECKED
 APPROVED

REGISTERED FOR TENDER
 AT SUBMISSION AND TOWN PLANNING DEPARTMENT
 A. ISSUED FOR APPROVAL
 B. ISSUED FOR TENDER

REGISTERED FOR TENDER

GENERAL NOTES:

- ALL WORK TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS.
- ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.
- ALL DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE AUTHOR.
- ALL PLUMBING BY REGISTERED CONTRACTOR. ALL ELECTRICAL BY REGISTERED CONTRACTOR.
- IF ON EXCAVATION IT IS FOUND TO CONTAIN EXPANSIVE CLAY, EXCESSIVE GROUND WATER OR OTHER POOR SOIL CONDITIONS THEN ALL PROFESSIONAL ENGINEERS DETAIL AND UNDER HIS SUPERVISION.
- FACEWORK SHALL BE 100mm WIRE CONCRETE APPROX TO BE PROVIDED AROUND BUILDING.
- NO VEGETATION TO BE AFFECTED ON SITE.
- BOUNDARY BEACONS TO BE EXPOSED AND BURNISHED.
- GLASS THICKNESS TO COMPLY WITH NBS SAFETY GLAZING IN ACCORDANCE WITH NBS REQUIRED.

ROOM DESCRIPTION	FLOORS	WALLS	SKIRTINGS	WINDOW SILLS	CEILING	GENERAL	SANITARY FITTINGS	FIXTURES
1. SUPPLY STORE	FF1, FF2, FF3	W1, W2	SK1	CL1	CL1	GN1	---	---
2. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
3. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
4. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
5. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
6. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
7. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
8. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
9. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
10. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
11. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
12. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
13. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
14. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
15. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
16. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
17. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
18. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
19. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---
20. WAREHOUSE	FF1, FF2, FF3, FF4	W1, W2	SK1	CL1	CL1	GN1	---	---

FINISHING SCHEDULE

ITEM	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
1	WALL FINISH	m ²	1000	100	100000
2	FLOOR FINISH	m ²	500	50	25000
3	CEILING FINISH	m ²	200	20	4000
4	SKIRTING	m	100	10	1000
5	WINDOW SILL	m	50	5	250
6	CEILING	m ²	100	10	1000
7	GENERAL	m ²	100	10	1000
8	SANITARY FITTING	---	---	---	---
9	FIXTURE	---	---	---	---

SPECIFICATION

WINDOW SILLS
W1- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.
W2- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.
W3- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.

CEILING
C1- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.
C2- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.
C3- 12mm CEMENT PLASTER, 45 WITH SMOOTH STEEL TROWEL FINISH TO MATCH WALL TILES.

GENERAL
GN1- EXPANSION JOINTS WITH BUTYLENE IMPREGATED SOFTBOARD BETWEEN VERTICAL CONCRETE AND BRICK SURFACES.
GN2- 2.5% DRY CHEMICAL TYPE FIRE EXTINGUISHER PLACING OF ALL FIRE EXTINGUISHERS AND SIGN POSTING ETC. TO COMPLY WITH T20 AND T20.3 OF SABS 6000.
GN3- 99 DRY CHEMICAL TYPE FIRE EXTINGUISHER PLACING OF ALL FIRE EXTINGUISHERS AND SIGN POSTING ETC. TO COMPLY WITH T20 AND T20.3 OF SABS 6000.
GN4- 2000 LITRE MEGAFLO DUAL 1000 SQUARE HIGH PRESSURE WATER HEATER COMPLETE WITH INKER AND NECESSARY VALVES AND FITTINGS TO COMPLY WITH T20 AND T20.3 OF SABS 6000.
GN5- 100mm X 50mm THICK ALUMINIUM BAND TO FORM BURGULAR BARS FIXED TO INSIDE OF ALL OPENABLE WINDOWS.

FLOORS

FF1- POWDER FLOATED CONCRETE FLOOR TO PR. ENG'S DETAIL IN ACCORDANCE WITH SABS 6100.
FF2- 400 X 400 X 75mm FREE RATED LITRE RESISTANT PORCELAIN TILE LAD WITH AN APPROVED ADHESIVE WITH APPROXIMATELY 450mm JOINTS AND POINTING WITH APPROVED GROUTING. COLOUR AS PER ARCHITECTS APPROVAL.
FF3- 400 X 400 X 75mm FREE RATED NON-SLIP PORCELAIN TILE LAD WITH AN APPROVED ADHESIVE WITH APPROXIMATELY 450mm JOINTS AND POINTING WITH APPROVED GROUTING. COLOUR AS PER ARCHITECTS APPROVAL.
FF4- 400 X 400 X 75mm FREE RATED NON-SLIP PORCELAIN TILE LAD WITH AN APPROVED ADHESIVE WITH APPROXIMATELY 450mm JOINTS AND POINTING WITH APPROVED GROUTING. COLOUR AS PER ARCHITECTS APPROVAL.
FF5- REINFORCED CONCRETE SLAB TO PR. ENG'S DETAILS.
FF6- COLOUR RENDER BY CONCRETE APPLICATION. SURFACE TO BE DAMP STOPPED PRIOR TO APPLICATION. APPLY BY DRY SHAKE HAND METHOD AT THE RATE OF ABOUT 3 TO 5 KG/M² BY DUSTING DIRECTLY ONTO COLOUR RENDER REQUIRED AND ONCE FLOATED, THE BALANCE COLOUR HARDBENER REQUIRED AND ONCE FLOATED, THE BALANCE COLOUR HARDBENER REQUIRED WITH A MEDIUM GRAIN OR HARD STEEL FLOAT TO A SMOOTH FINISH.
FF7- TARMAC LAD TO FALL TO STORM WATER SWAMP TO PR. ENG'S DETAIL.
FF8- HEAVY DUTY CONCRETE PAVING LAD TO FALL TO STORM WATER SWAMP TO PR. ENG'S DETAIL.

WALLS
W1- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.
W2- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.
W3- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.
W4- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.
W5- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.
W6- 12mm CEMENT PLASTER FINISHED WITH STEEL TROWEL.

SKIRTINGS
SK1- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.
SK2- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.
SK3- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.

SKIRTINGS
SK1- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.
SK2- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.
SK3- 100mm HIGH CUT PORCELAIN TILE TO MATCH FLOOR TILES. LAD TO COMPLY WITH APPROVED GROUTING.

CONTRACT NO. PWB/SJ003/212
PROJECT NO. K033-RT-202
SCALE: 1:100
SHEET 1 OF 1
DRAWING NO. K033-RT-202
REVISION T

DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
GENERAL FINISHES AND SPECIFICATIONS

PROJECT/FORMA TITLE
POSTAL ADDRESS: PO BOX 613 PHENYONI 624 PHENYONI 501
CLIENT: SIGNATURE: 
CLIENT PHYSICAL ADDRESS: JAMES STREET 320 PHENYONI 501
TEL: 031 231 1719
E-MAIL: mnd@mp.gov.za

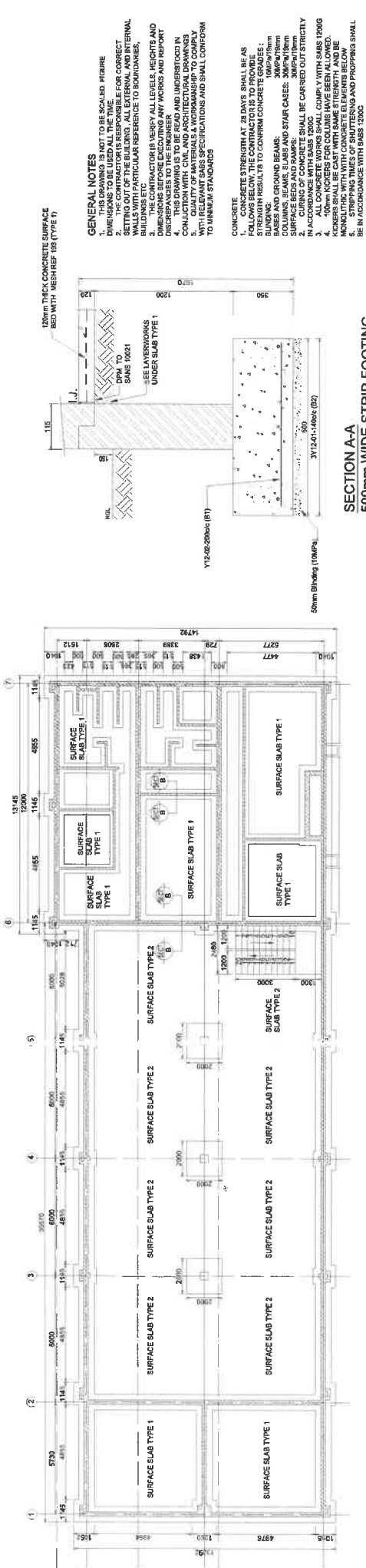
CONSULTING ENGINEER: P. YUGIB
PHYSICAL ADDRESS: PO BOX 613 PHENYONI 624 PHENYONI 501
TEL: 031 231 1719
E-MAIL: mnd@mp.gov.za

REGISTERED ENGINEER: L. MAFISA
PHYSICAL ADDRESS: PO BOX 613 PHENYONI 624 PHENYONI 501
TEL: 031 231 1719
E-MAIL: mnd@mp.gov.za

DESIGNED: P. YUGIB
DRAWN: L. MAFISA
CHECKED: L. MAFISA
PROJECT ENGINEER: L. MAFISA
REGISTRATION NO.: 2015/703/20

15/05/2021
17/05/2021
18/11/2020
DATE
15/05/2021
17/05/2021
18/11/2020
DATE

DESCRIPTION OF REVISIONS



GENERAL NOTES

- THIS DRAWING IS NOT TO BE SCALED. REQUIRE DIMENSIONS TO BE AS SHOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT OF THE BUILDING, ALL EXTERNAL AND INTERNAL DIMENSIONS WITH PARTICULAR REFERENCE TO BOUNDARIES, BUILDINGS ETC.
- THE CONTRACTOR IS TO VERIFY ALL LEVELS, HEIGHTS AND DISCREPANCIES TO THE ENGINEER.
- THE DRAWINGS IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH THE CONTRACT AND ANY WORKS AND REPORT WITH RELEVANT SABS SPECIFICATIONS AND SHALL CONFORM TO MINIMUM STANDARDS.

CONCRETE

CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS BELOW. THE CONTRACTOR IS TO PROVIDE STRENGTH RESULTS TO CONFIRM CONCRETE GRADES:

- 1. 150mm THICK IMPORTED G.S. MATERIAL COMPACTED TO 95% MOD. ASHTO DENSITY
- 2. 100mm THICK BLENDED LAYER OF 10MP/15mm CONCRETE BEAMS, SLABS AND STAIR CASES: 30MP/15mm
- 3. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 1200C.
- 4. 100% CHECKERS FOR COLUMNS HAVE BEEN ALLOWED. KINNERS SHALL BE CAST WITH SAME STRENGTH AND BE CONSTRUCTED IN ACCORDANCE WITH SABS 1200B AND SABS 1200C.
- 5. ALL COLUMNS ARE PLACED SYMMETRICALLY ON GRID LINES UNLESS OTHERWISE SHOWN.

REINFORCEMENT

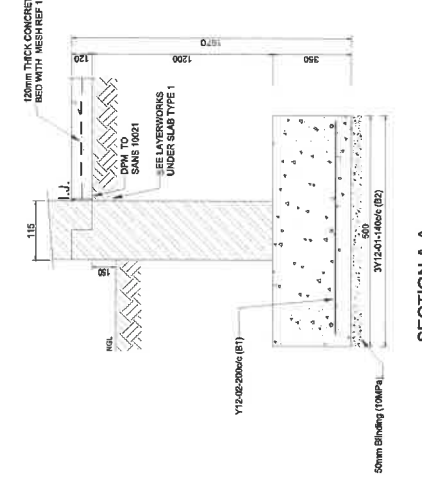
- THE CONTRACTOR SHALL INSPECT AND APPROVE THE REED TO BE APPROVED IN WRITING BY THE ENGINEER. ALL REINFORCEMENT CONCRETE COMPONENTS.
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 1200B AND SABS 1204.
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 1200B AND SABS 1204.
- NO REINFORCEMENT SHALL BE USED WITHOUT THE APPROVAL OF THE ENGINEER.

REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 1200B AND SABS 1204.

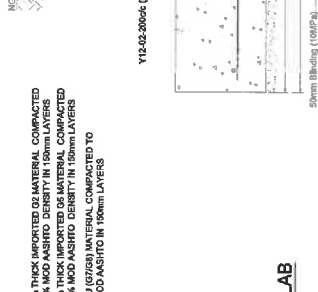
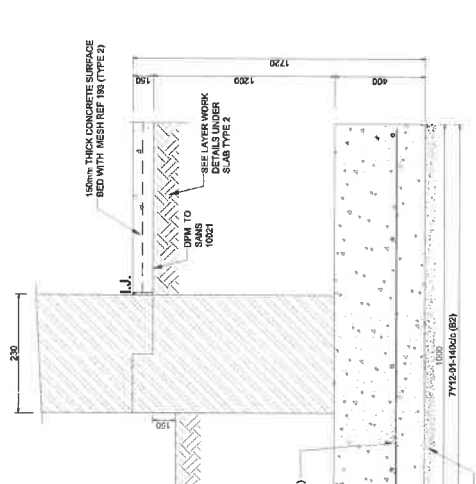
LEGEND

- 1. 150mm THICK IMPORTED G.S. MATERIAL COMPACTED TO 95% MOD. ASHTO DENSITY
- 2. 100mm THICK BLENDED LAYER OF 10MP/15mm CONCRETE BEAMS, SLABS AND STAIR CASES: 30MP/15mm
- 3. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 1200C.
- 4. 100% CHECKERS FOR COLUMNS HAVE BEEN ALLOWED. KINNERS SHALL BE CAST WITH SAME STRENGTH AND BE CONSTRUCTED IN ACCORDANCE WITH SABS 1200B AND SABS 1200C.
- 5. ALL COLUMNS ARE PLACED SYMMETRICALLY ON GRID LINES UNLESS OTHERWISE SHOWN.

SECTION A-A
500mm WIDE STRIP FOOTING BEARING WALLS
(UNDER NON-LOAD BEARING WALLS)
Scale: NTS

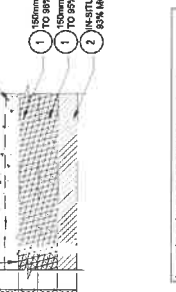


SECTION B-B
1000mm WIDE STRIP FOOTING BEARING WALLS
(UNDER LOAD BEARING WALLS)
Scale: NTS



LAYERWORKS UNDER TYPE 2 SLAB
Scale 1:NTS

- TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL BEFORE PROCESSING ANOTHER LAYER. TESTING SHALL BE TO OPTIMUM MOISTURE PRIOR TO CASTING SURFACE BED.



LAYERWORKS UNDER TYPE 1 SLAB
Scale 1:100

- TEST RESULTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL BEFORE PROCESSING ANOTHER LAYER. TESTING SHALL BE TO OPTIMUM MOISTURE PRIOR TO CASTING SURFACE BED.

FOUNDATIONS AND EARTHWORKS

- MAXIMUM SOIL BEARING PRESSURE UNDER FOUNDATIONS IS TO BE APPROVED IN WRITING BY THE ENGINEER.
- ALL ELEVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE ANY BLINDING IS CAST.
- A 10mm THICK BLENDED LAYER OF 10MP/15mm CONCRETE IS TO BE PLACED SYMMETRICALLY BELOW ALL FOUNDATIONS.
- ALL FOUNDATIONS ARE TO BE PLACED SYMMETRICALLY BELOW ALL COLUMNS.
- ALL FOUNDATIONS ARE TO BE PLACED SYMMETRICALLY BELOW ALL COLUMNS OR WALLS UNLESS OTHERWISE SHOWN.
- ALL FOUNDATIONS ARE TO BE PLACED SYMMETRICALLY BELOW ALL COLUMNS OR WALLS UNLESS OTHERWISE SHOWN.
- ALL EARTHWORKS IN ACCORDANCE WITH SABS 1200B OR ANY LATEST REVISIONS. THE CONTRACTOR IS TO PROVIDE TEST RESULTS FOR EACH LAYER, AND BEFORE THE TOP LAYER.
- ALL COMPACTION TO BE AS PER SPECIFICATIONS.

BRICKWORKS

- ALL BRICKWORKS IS TO BE CONSTRUCTED USING COMMON BRICKS OF 190mm x 90mm x 55mm (L x W x H). MORTAR 1:1. THE CONTRACTOR IS TO PROVIDE STRENGTH RESULTS FOR ALL BRICKS USED. PROVED STRENGTH RESULTS FOR ALL BRICKS USED.
- BRICKWORK TO BE PROVIDED AS PER ARCHITECTURAL SPECIFICATIONS.

SCALE: 1:100

CONTRACT NO: PMS-0002122

SHEET 1 OF 1

PROJECT NO: K025

DRAWING NO: K025-IT-203

REVISION: T

100mm

60

ORIGINAL DRAWING

CLIENT

DR. NIKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE

PHYSICAL ADDRESS:
MARI STREET
CHICOPAN
3819

POSTAL ADDRESS:
PO BOX 101
CHICOPAN
3819

CLIENT CONTACT:
MR. ZUMA
TEL: 031 813 1774
FAX: 031 813 1774
E-MAIL: zuma@zuma.gov.za

ENGINEER CONTACT:
MR. ZUMA
TEL: 031 813 1774
FAX: 031 813 1774
E-MAIL: zuma@zuma.gov.za

REVISION	DATE	BY	DESCRIPTION	APPROVED
1	19/10/2021	L. HANSEN	ISSUED FOR TENDER	
2	17/02/2021	L. HANSEN	ISSUED FOR APPROVAL	
3	19/10/2021	L. HANSEN	ISSUED FOR APPROVAL	

REVISION	DATE	BY	DESCRIPTION	APPROVED
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2	17/02/2021	L. HANSEN	ISSUED FOR APPROVAL	
3	19/10/2021	L. HANSEN	ISSUED FOR APPROVAL	

REVISION	DATE	BY	DESCRIPTION	APPROVED
1	19/10/2021	L. HANSEN	ISSUED FOR TENDER	
2	17/02/2021	L. HANSEN	ISSUED FOR APPROVAL	
3	19/10/2021	L. HANSEN	ISSUED FOR APPROVAL	

CONSULTING ENGINEER

PHYSICAL ADDRESS:
15 YORK ROAD
JHEBERSBURG
2017

POSTAL ADDRESS:
PO BOX 24
JHEBERSBURG
2017

CONTACT:
TEL: 021 933 1328
FAX: 021 933 1328
E-MAIL: info@f.m.a.co.za

CONTRACT NO: PMS-0002122

PROJECT NO: K025

DRAWING NO: K025-IT-203

REVISION: T

SCALE: 1:100

CONTRACTOR: DR. NIKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY

ENGINEER: F.M.A.

PROJECT: THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE

FOUNDATION PLAN LAYOUT AND DETAILS

GENERAL NOTES

- THIS DRAWING IS NOT TO BE SCALED. FIGURE 1.
- THE CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT OF THE BUILDING. ALL EXTERNAL AND INTERNAL DIMENSIONS ARE TO FACE UNLESS SPECIFICALLY REFERENCED TO BOUNDARIES, BUILDINGS ETC.
- THE CONTRACTOR IS TO VERIFY ALL LEVELS, HEIGHTS AND DISCREPANCIES TO THE ENGINEER'S WORKS AND REPORT DISCREPANCIES TO THE ENGINEER.
- THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH CIVIL AND ARCHITECTURAL DRAWINGS AND ALL RELEVANT SPECIFICATIONS AND SHALL CONFORM TO MINIMUM STANDARDS.

CONCRETE

CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS BELOW. THE CONTRACTOR IS TO PROVIDE STRENGTH RESULTS TO CONFIRM CONCRETE GRADES:

- 1. 30MPa
- 2. 25MPa

BASES AND GROUND BEAMS:

- 1. 30MPa
- 2. 30MPa/100mm

COLUMNS, BEAMS, SLABS AND STAIR CASES: 30MPa/100mm

CONCRETE FINISHES:

- 1. FINISH TO FACE
- 2. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 12000
- 3. 100% COVERS FOR COLUMNS, BEAMS AND STAIR CASES SHALL BE CAST WITH SABS 12000
- 4. 100% COVERS FOR SLABS, ROOF SLABS AND BEAM JOINTS SHALL BE CAST WITH SABS 12000
- 5. MONOLITHIC WITH CONCRETE ELEMENTS BELOW
- 6. ALL COLUMNS ARE TO BE CAST WITH SABS 12000
- 7. ALL COLUMNS ARE TO BE CAST WITH SABS 12000
- 8. ALL COLUMNS ARE TO BE CAST WITH SABS 12000
- 9. ALL COLUMNS ARE TO BE CAST WITH SABS 12000
- 10. ALL COLUMNS ARE TO BE CAST WITH SABS 12000

REINFORCEMENT

- THE CONTRACTOR SHALL INSPECT AND APPROVE THE TIED REINFORCEMENT BEFORE THE CONCRETE IS CAST. ALL REINFORCEMENT SHALL BE APPROVED BY THE ENGINEER BEFORE CASTING.
- CONCRETE COMMENCER
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 12000 AND SABS 1214.
- NO TREATMENT FOR CUTTING OF REINFORCEMENT WITHOUT REINFORCEMENT, EXCEPT WHERE INDICATED OTHERWISE AS FOLLOWS:
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 12000 AND SABS 1214.
- NO TREATMENT FOR CUTTING OF REINFORCEMENT WITHOUT REINFORCEMENT, EXCEPT WHERE INDICATED OTHERWISE AS FOLLOWS:
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 12000 AND SABS 1214.
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- REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 12000 AND SABS 1214.

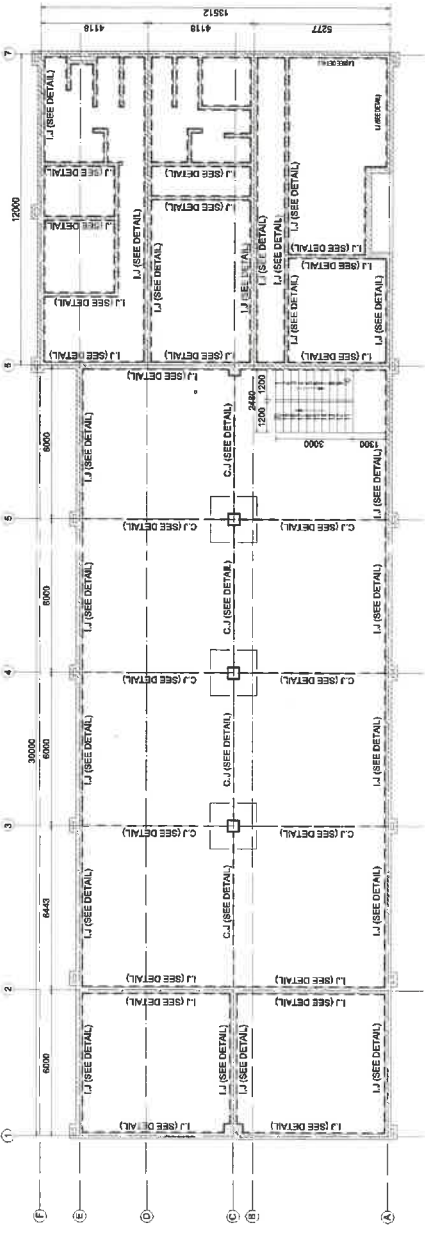


FOUNDATIONS AND EARTHWORKS

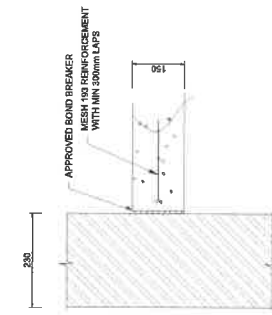
- MAXIMUM SOIL BEARINGS PRESSURE UNDER FOUNDATIONS IS 100kPa.
- ALL FOUNDATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE ANY BUILDING IS CAST.
- A 40mm THICK ELIMINATOR LAYER OF IMPERMEABLE CONCRETE SHALL BE CAST UNDER ALL FOUNDATIONS.
- ALL FOOTINGS ARE TO BE PLACED SYMMETRICALLY BELOW COLUMNS UNLESS OTHERWISE SHOWN.
- COLUMNS OR WALLS UNLESS OTHERWISE SHOWN SHALL BE PLACED SYMMETRICALLY BELOW COLUMNS OR WALLS UNLESS OTHERWISE SHOWN.
- ALL LATEST REVISIONS. THE CONTRACTOR IS TO PROVIDE THE TOP LAYER OF REINFORCEMENT FOR EACH LAYER, AND BEFORE THE TOP LAYER IS CAST.
- ALL COMPACT TO BE AS PER SPECIFICATIONS.

BRICKWORKS

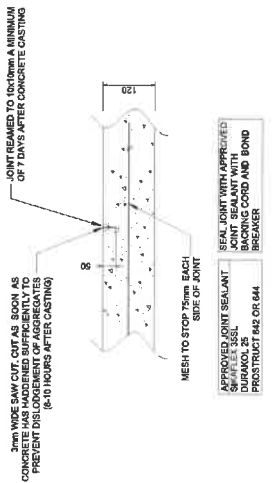
- ALL WALL AND BEARING WALLS TO BE CONSTRUCTED USING BRICKWORK. THE CONTRACTOR IS TO PROVIDE STRENGTH RESULTS FOR ALL BRICKS USED.
- ALL WALLS TO BE CONSTRUCTED USING BRICKWORK.
- BRICKWORK TO BE PROVIDED AS PER ARCHITECTURAL SPECIFICATIONS.



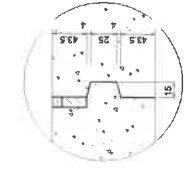
SURFACE BED LAYOUT PLAN
Scale 1:100



ISOLATION JOINT (I.J.)
Scale 1:10



SAW CUT JOINT (S.C.J.)
Scale 1:10



CONSTRUCTION JOINT (C.J.)
Scale 1:10

DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
SURFACE BED LAYOUT

PROJECT INFORMATION

CONTRACT NO: PWBS-BR02/122
SHEET: 1 OF 1033
DRAWING NO: 1033-SIT-204
REVISION: T

CLIENT

POSTAL ADDRESS: PO BOX 514, GLEN PINNACLES, 5811
PHYSICAL ADDRESS: MAIN STREET, GLEN PINNACLES, 5811
CONTACT: 031 933 179
E-MAIL: info@zuma.gov.za

CONSULTING ENGINEER

DESIGNED: P. JAZEN
CHECKED: H. FUYANA
PROJECT ENGINEER: H. FUYANA
REGISTRATION NO.: 20170223

DATE

13/04/2021
17/02/2021
11/10/20
DATE: 13/04/2021

APPROVED

13/04/2021
17/02/2021
11/10/20
DATE: 13/04/2021

DESCRIPTION OF REVISIONS

T: ISSUED FOR TENDER
A: REVISION AND TOWN PLANNING SUBMISSION
A: ISSUED FOR APPROVAL
A: DESCRIPTION OF REVISIONS

PROJECTOR/WHO TITLE

DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE
SURFACE BED LAYOUT

SCALE

AS SHOWN
SHEET 1 OF 1033
DRAWING NO. 1033-SIT-204
REVISION T

POSTAL ADDRESS: PO BOX 514, GLEN PINNACLES, 5811
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CONTACT: 031 933 179
E-MAIL: info@zuma.gov.za

CLIENT: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY
PHYSICAL ADDRESS: MAIN STREET, GLEN PINNACLES, 5811
CONTACT: 031 933 179
E-MAIL: info@zuma.gov.za

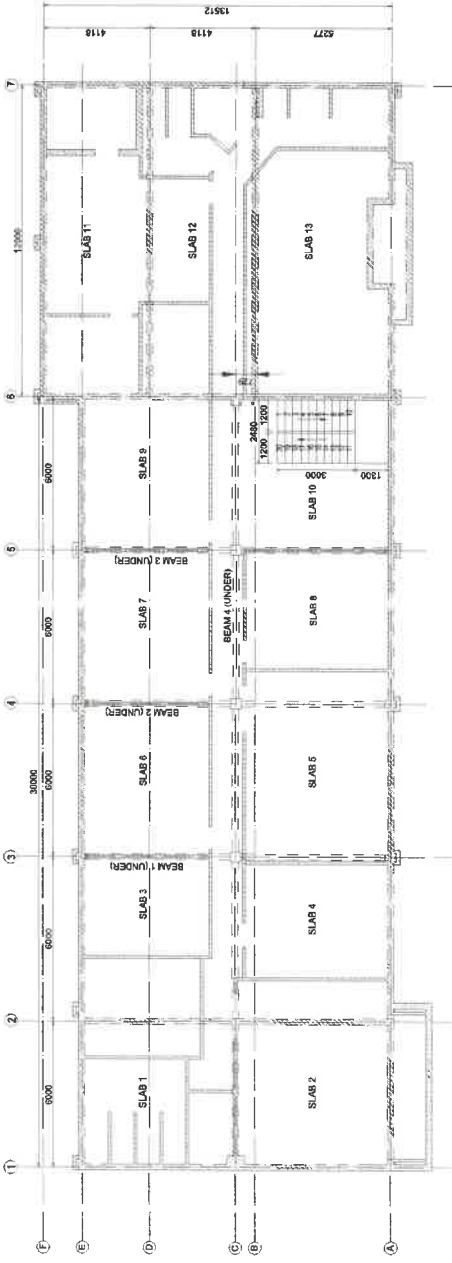
CONSULTING ENGINEER: P. JAZEN
PHYSICAL ADDRESS: 44 VICTORIA ROAD, GLEN PINNACLES, 5811
CONTACT: 031 933 179
E-MAIL: info@zuma.gov.za

DESIGNED: P. JAZEN
CHECKED: H. FUYANA
PROJECT ENGINEER: H. FUYANA
REGISTRATION NO.: 20170223

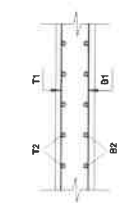
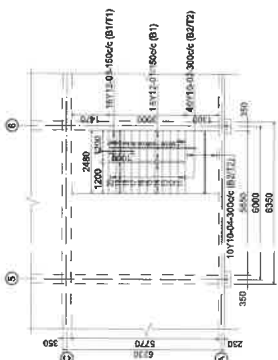
DATE: 13/04/2021
17/02/2021
11/10/20
DATE: 13/04/2021

APPROVED: [Signature]
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[Signature]
DATE: 13/04/2021

DESCRIPTION OF REVISIONS:
T: ISSUED FOR TENDER
A: REVISION AND TOWN PLANNING SUBMISSION
A: ISSUED FOR APPROVAL
A: DESCRIPTION OF REVISIONS



FIRST FLOOR LAYOUT PLAN
Scale 1:100



GENERAL NOTES

- THIS DRAWING IS NOT TO BE SCALED. FIGURE DIMENSIONS TO BE USED ALL THE TIME.
- ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
- ALL EXTERNAL AND INTERNAL WALLS WITH PARTICULAR REFERENCE TO BOUNDARIES.
- THE CONTRACTOR IS TO VERIFY ALL LEVELS, HEIGHTS AND DIMENSIONS BEFORE EXECUTING ANY WORK AND REPORT DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR IS TO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.
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CONCRETE

- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONCRETE SHALL BE CAST AND CURED IN ACCORDANCE WITH THE RELEVANT STANDARDS.
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REINFORCEMENT

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FOUNDATIONS AND EARTHWORKS

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






BRICKWORKS

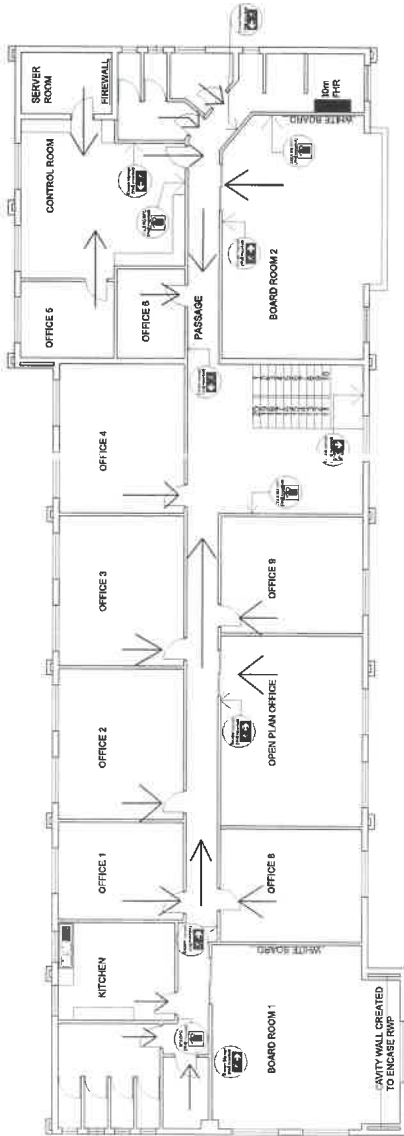
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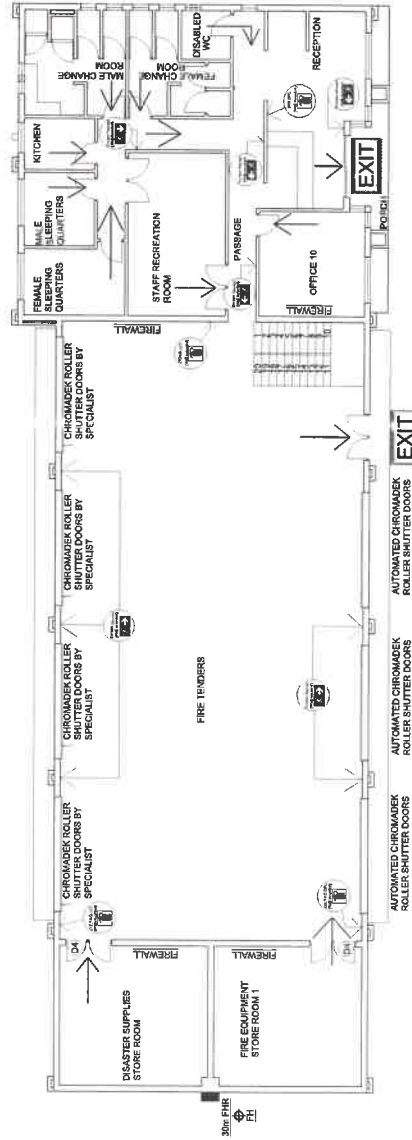
PROJECT INFORMATION		CLIENT		CONSULTING ENGINEER		DESIGNED		CHECKED		DATE	
PROJECT NAME: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE STRUCTURAL DETAILS: FIRST FLOOR AND STAIRS		PHYSICAL ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		PHYSICAL ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		PHYSICAL ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		PHYSICAL ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		PHYSICAL ADDRESS: 1000 MAIN STREET, PINETOWN, 3201	
CONTRACT NO: PWBS-8003/12		CLIENT NAME: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY		ENGINEER NAME: DR NKOSAZANA DLAMINI ZUMA		ENGINEER NO: 20170323		ENGINEER NO: 20170323		ENGINEER NO: 20170323	
SHEET 1 OF 1		CLIENT CONTACT: 031 261 1179		ENGINEER CONTACT: 031 261 1179		ENGINEER CONTACT: 031 261 1179		ENGINEER CONTACT: 031 261 1179		ENGINEER CONTACT: 031 261 1179	
DRAWING NO: K033-BT-205		CLIENT ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		ENGINEER ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		ENGINEER ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		ENGINEER ADDRESS: 1000 MAIN STREET, PINETOWN, 3201		ENGINEER ADDRESS: 1000 MAIN STREET, PINETOWN, 3201	
REVISION: T		CLIENT SIGNATURE: _____		ENGINEER SIGNATURE: _____		ENGINEER SIGNATURE: _____		ENGINEER SIGNATURE: _____		ENGINEER SIGNATURE: _____	

LEGEND

	DCP FIRE EXTINGUISHER LOCATION
	FIRE HOSE REEL
	EXIT SIGN
	FIRE ESCAPE ROUTE
	EMERGENCY ASSEMBLY POINT
	REINFORCED FIRE WALL
	FIRE ESCAPE SIGNAGE WITH DIRECTION TO EXIT

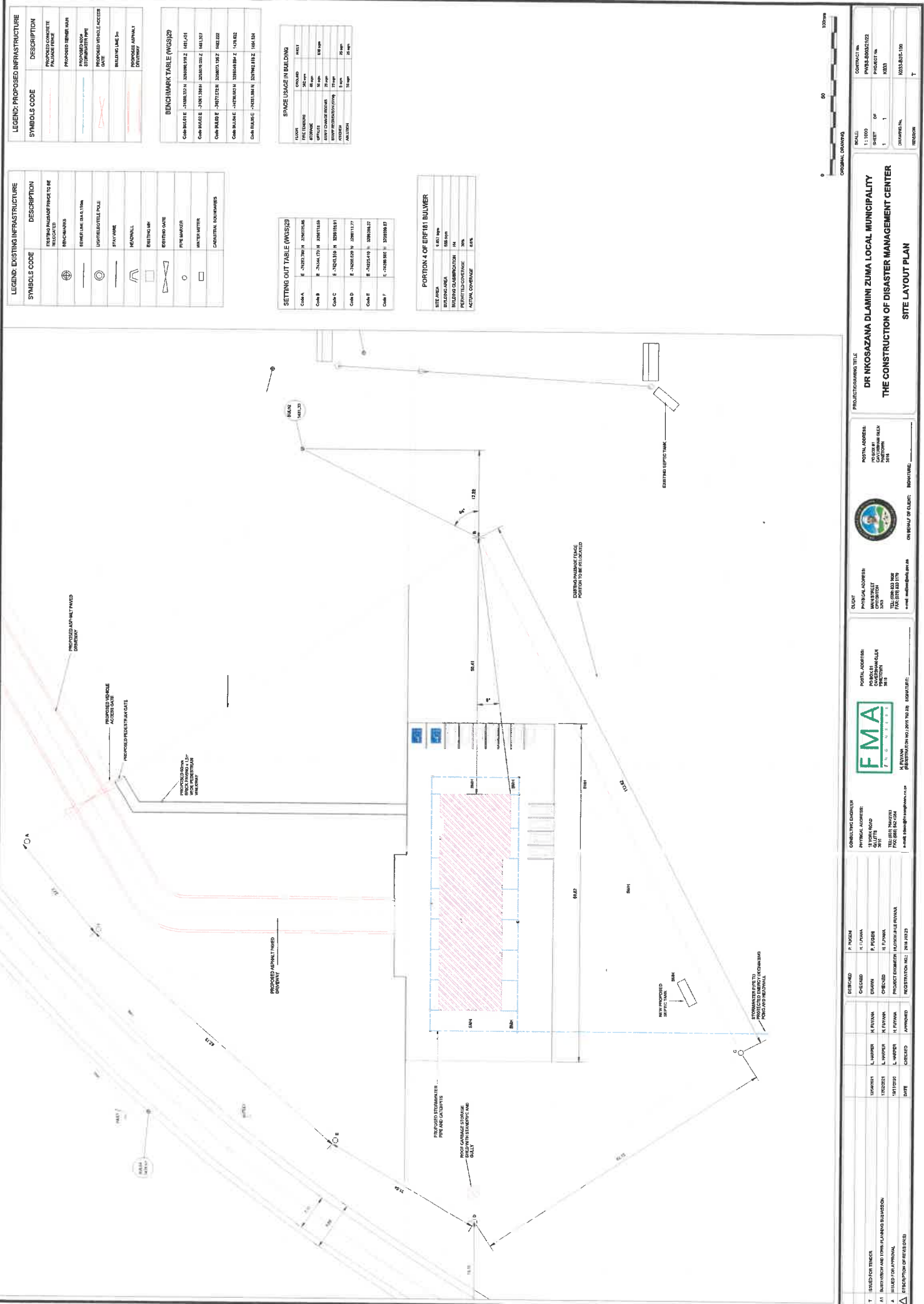


FIRST FLOOR PLAN
Scale 1:100



GROUND FLOOR PLAN
Scale 1:100

<p>CONTRACT NO. P/MS-0002122</p> <p>PROJECT No. M03</p> <p>NO. OF SHEETS 1</p> <p>NO. OF THIS SHEET 1</p> <p>DRAWING No. M03-SIT-208</p> <p>REVISION T</p>	<p>PROJECT/TOWNHIP TITLE</p> <p>DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY</p> <p>THE CONSTRUCTION OF MUNICIPAL EMERGENCY CENTRE</p> <p>FIRE SAFETY PLAN</p>	<p>SCALE AS SHOWN</p> <p>POSTAL ADDRESS: PO BOX 311 MAMBIEN P/TAUNTON 310</p>	<p>CLIENT</p> <p>POSTAL ADDRESS: MAMBIEN STREET MAMBIEN P/TAUNTON 310</p> <p>TEL: 033 333 1111 FAX: 033 333 1111 e-mail: info@ema.co.za</p>																								
<p>REGISTERED</p> <table border="0" style="width: 100%;"> <tr> <td>P. HUGEN</td> <td>H. FYHANA</td> </tr> <tr> <td>REGISTERED</td> <td>REGISTERED</td> </tr> </table> <p>DATE</p> <table border="0" style="width: 100%;"> <tr> <td>13/04/2021</td> <td>L. MURPER</td> <td>H. FYHANA</td> <td>H. FYHANA</td> </tr> <tr> <td>17/02/2021</td> <td>L. MURPER</td> <td>H. FYHANA</td> <td>H. FYHANA</td> </tr> <tr> <td>19/10/2020</td> <td>L. MURPER</td> <td>H. FYHANA</td> <td>H. FYHANA</td> </tr> </table> <p>DESCRIPTION OF REVISION</p> <table border="0" style="width: 100%;"> <tr> <td>T</td> <td>ISSUED FOR TENDER</td> </tr> <tr> <td>A1</td> <td>ISSUED FOR TOWN PLANNING SUBMISSION</td> </tr> <tr> <td>A</td> <td>ISSUED FOR APPROVAL</td> </tr> <tr> <td>Δ</td> <td>DESCRIPTION OF REVISION</td> </tr> </table>	P. HUGEN	H. FYHANA	REGISTERED	REGISTERED	13/04/2021	L. MURPER	H. FYHANA	H. FYHANA	17/02/2021	L. MURPER	H. FYHANA	H. FYHANA	19/10/2020	L. MURPER	H. FYHANA	H. FYHANA	T	ISSUED FOR TENDER	A1	ISSUED FOR TOWN PLANNING SUBMISSION	A	ISSUED FOR APPROVAL	Δ	DESCRIPTION OF REVISION	<p>CONSULTING ENGINEER</p> <p>POSTAL ADDRESS: 28 YORK ROAD MAMBIEN P/TAUNTON 310</p> <p>TEL: 033 333 1111 FAX: 033 333 1111 e-mail: info@ema.co.za</p>	<p>PHYSICAL ADDRESS: MAMBIEN STREET MAMBIEN P/TAUNTON 310</p> <p>ON BEHALF OF CLIENT: SIGNATURE:</p>	<p>EMA E M A L L C P R O P R I E T A R I E S</p> <p>REGISTRATION NO. 28153323 MEMBER NO. 121570333</p>
P. HUGEN	H. FYHANA																										
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Δ	DESCRIPTION OF REVISION																										



LEGEND: PROPOSED INFRASTRUCTURE

SYMBOLS CODE	DESCRIPTION
Ⓞ	PROPOSED CONCRETE PAVEMENT
Ⓢ	PROPOSED BENCH MARK
Ⓣ	PROPOSED VEHICLE ACCESS GATE
Ⓥ	BENCHMARK LINE
Ⓦ	PROPOSED ASPHALT TAVED DRIVEWAY

BENCHMARK TABLE (WGS82)

Code	Easting	Northing
Code A	746442.057	1027113.05
Code B	746453.518	1027153.51
Code C	746515.311	1027153.51
Code D	746509.520	1027153.51
Code E	746525.411	1027153.51
Code F	746525.411	1027153.51

SPACE USAGE IN BUILDING

FLOOR	Area	Usage
FIRST FLOOR	500.00	Office
SECOND FLOOR	500.00	Office
THIRD FLOOR	500.00	Office
ROOF GARAGE	500.00	Garage

LEGEND: EXISTING INFRASTRUCTURE

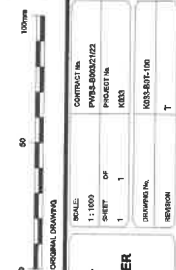
SYMBOLS CODE	DESCRIPTION
Ⓦ	EXISTING ASPHALT DRIVEWAY
Ⓡ	EXISTING RAIL GATE
Ⓣ	EXISTING VEHICLE ACCESS GATE
Ⓥ	EXISTING BENCH MARK
Ⓦ	EXISTING ASPHALT TAVED DRIVEWAY

SETTING OUT TABLE (WGS82)

Code	Easting	Northing
Code A	746425.320	1027075.20
Code B	746442.057	1027113.05
Code C	746515.311	1027153.51
Code D	746509.520	1027153.51
Code E	746525.411	1027153.51
Code F	746525.411	1027153.51

PORTION 4 OF EXISTING BULWER

Parameter	Value
Site Area	5.00 Ha
Building Area	1500.00
Building Classification	RM
Permitted Coverage	30%
Actual Coverage	54%



PROJECT INFORMATION PROJECT NAME: DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY PROJECT NUMBER: 1033-8031-100 SHEET OF: 1 DRAWING NO: 1033-8031-100	
CLIENT MUNICIPAL ADDRESS: MUNICIPALITY PROJECT ADDRESS: PROJECT NUMBER: 1033-8031-100	CONSULTING ENGINEER F. MATHIBANE REGISTRATION NO: 24012024-20
DESIGNED BY: H. MATHIBANE CHECKED: H. MATHIBANE DATE: 2024-10-20	APPROVED BY: H. MATHIBANE CHECKED: H. MATHIBANE DATE: 2024-10-20
PROFESSIONAL TITLE DR NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY THE CONSTRUCTION OF DISASTER MANAGEMENT CENTER SITE LAYOUT PLAN	

Annex C

Local Content Declaration - Summary Schedule

- (C1) Tender No.
- (C2) Tender description:
- (C3) Designated product(s)
- (C4) Tender Authority:
- (C5) Tendering Entity name:
- (C6) Tender Exchange Rate:
- (C7) Specified local content %

Note: VAT to be excluded from all calculations

Pula EU GBP

Tender item no's	List of items	Tender price - each (excl VAT)	Calculation of local content				Tender summary				
			Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
								(C20) Total tender value	R 0		
								(C21) Total Exempt imported content	R 0		
								(C22) Total Tender value net of exempt imported content	R 0		
								(C23) Total imported content	R 0		
								(C24) Total local content	R 0		
								(C25) Average local content % of tender			

Signature of tenderer from Annex B _____

Date: _____

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.

(D2) Tender description:

(D3) Designated Products:

(D4) Tender Authority:

(D5) Tendering Entity name:

(D6) Tender Exchange Rate: Pula

Note: VAT to be excluded from all calculations

EU R 9.00

GBP R 12.00

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value											

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total Imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total Imported value by tenderer											

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of Imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity Imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B _____

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)
(E2)
(E3)
(E4)
(E5)

Tender No.	
Tender description:	
Designated products:	
Tender Authority:	
Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of Items purchased (E6)	Local suppliers (E7)	Value (E8)
(E9) Total local products (Goods, Services and Works)			R O

- (E10) Manpower costs (Tenderer's manpower cost) R O
- (E11) Factory overheads (Rental, depreciation & amortisation, utility costs, consumables etc.) R O
- (E12) Administration overheads and mark-up (Marketing, insurance, financing, interest etc.) R O

(E13) Total local content R O
This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____