

SANS 204 FENESTRATION (NATURAL)	
GROUND STOREY	
CLIMATE ZONE	5
NET FLOOR AREA	59.94
MAX. CONDUCTANCE	83.916 Cu
BUILDING CONDUCTANCE	40.320 Cu
% OF ALLOWED	48.05 %
MAX. SOLAR HEAT GAIN	6.593 Cshgu
BUILDING SOLAR HEAT GAIN	1.837 Cshgu
% OF ALLOWED	27.86 %
FENESTRATION AREA (FA)	7.20 sqm
FENESTRATION TO NET FLOOR AREA RATIO	12.00 %

SANS 204 FENESTRATION (ARTIFICIAL)			
GROUND STOREY		AIR-CONDITIONING IS PERMITTED	
CLIMATE ZONE	5		
ENERGY INDEX	0.18	ALLOWABLE	BUILDING
ORIENTATION	FACADE AREA	AIRCORN VALUES	AIRCORN VALUES
NORTH	3.339 sqm	0.601	0.00
NORTH EAST	28.487 sqm	5.128	2.102
EAST			
SOUTH EAST			
SOUTH			
SOUTH WEST			
WEST			
NORTH WEST	10.716 sqm	1.929	1.076
			55.78

MAX ENERGY DEMAND AND CONSUMPTION FOR LIGHTING	
MAX ENERGY DEMAND ALLOWED =	282.29 sqm x 17W = 4789.93 W
MAX ENERGY CONSUMPTION ALLOWED =	11997.325 KWH
BUILDING LIGHTING ENERGY DEMAND =	45W
BUILDING ANNUAL ENERGY CONSUMPTION =	140.40 KWH

LAMP POWER (W)	No. OF LAMPS	TOTAL WATTAGE
15 W	3	45 W
		45 W

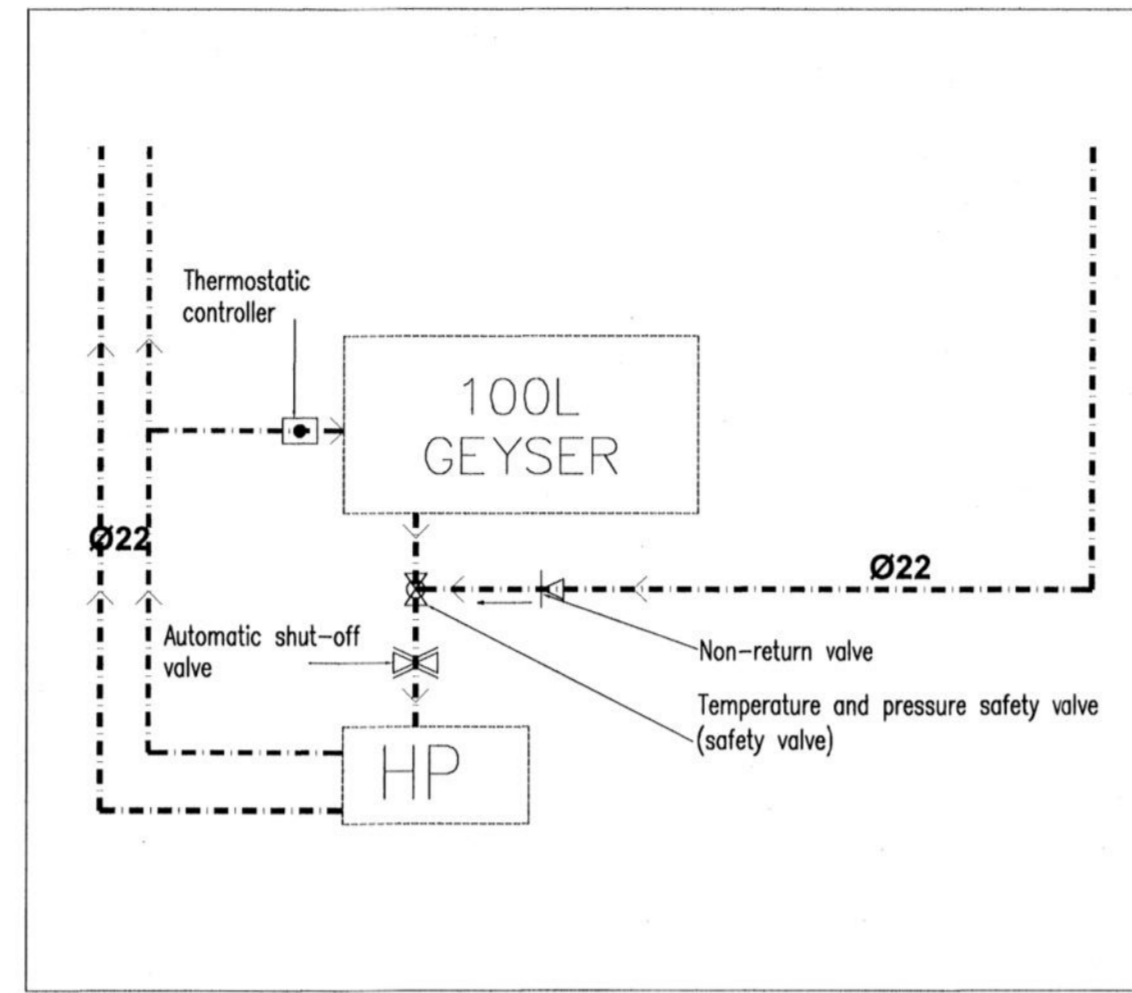
HOT WATER SERVICES	
ASSUMED HOT WATER CONSUMPTION =	10 L/CAPITA/DAY
POPULATION (SEE TABLE) =	8 PERSONS
ASSUMED DAILY HOT WATER CONSUMPTION =	80 L
40 L OF WATER TO BE HEATED BY MEANS OF SOLAR HEATING	
ALL EXTERNAL HOT WATER PIPES TO BE INSULATED WITH INSULATION OF 1 R-VALUE	
ALL GEYSER TO BE INSULATED WITH INSULATION OF 2 R-VALUE	

LIGHT AND VENTILATION				
ROOM DESIGNATION	FLOOR AREA	WINDOW No.	MIN LIGHT AREA	%
RECEPTION	59.94 sqm	EW1-EW3, ED1	7.2	12.0
WC 1	2.05 sqm	EW4	0.39	19.0
WC 2	4.16 sqm	NIL	0.00	0.0

ROOM DESIGNATION	FLOOR AREA	MIN VENTILATION AREA	%
RECEPTION	59.94 sqm	3.69	6.2
WC 1	2.05 sqm	0.39	19.0
WC 2	4.16 sqm	0.00	0.0

- FIRE NOTES :**
- OCCUPANCY CLASSIFICATION G 1.
 - PROVIDE 1x4.5 kg DCP (ABC) TYPE FIRE EXTINGUISHER PER 200 SQM. (2 REQUIRED). T 4.37.
 - FIRE EXTINGUISHERS ARE TO BE WALL MOUNTED WITH THE HANDLE AT 1.5m ABOVE GROUND LEVEL IN AN EASILY VISIBLE AND ACCESSIBLE POSITION
 - FITTED FLOOR COVERINGS MUST COMPLY WITH T 4.14.
 - COMBUSTIBLE WALL LININGS AND DECORATIVE FINISHES MUST COMPLY WITH T 4.15.
 - MARKING AND SIGNPOSTING OF EMERGENCY ROUTES AND FIRE EQUIPMENT MUST COMPLY WITH T 4.29 AND T 4.32.2.
 - ACCESS TO BUILDINGS FOR FIRE FIGHTING AND RESCUE PURPOSES MUST COMPLY WITH T 4.54.
 - SUSPENDED CEILINGS TO COMPLY WITH THE REQUIREMENTS OF T 4.13.
 - NO PART OF ANY BUILDING ON SITE IS TO EXCEED 90m FROM A FIRE HYDRANT T 4.35.4. IF ANY BUILDING EXCEEDS 90m THEN ADDITIONAL FIRE HYDRANTS ARE TO BE INSTALLED.
 - WATER SUPPLY TO FIRE HYDRANTS MUST COMPLY WITH T 4.33 AND W 4.5.
 - ACCESS TO PROPERTY MUST BE A MINIMUM OF 6m WIDE OR GREATER.
 - THE POSITION OF THE HYDRANT AND HYDRANT BOOSTER MANIFOLD CONNECTION AS WELL AS THE INTERNAL DIAMETER OF THE FEEDS SUBJECT TO DIRECTION BY THE LOCAL AUTHORITY.
 - PARTITION WALLS AND PARTITIONS TO COMPLY WITH T 4.9.
 - FIRE HYDRANTS MUST BE PROVIDED. (ONE PER 1000 sqm OF TOTAL AREA AND NOT LESS THAN ONE PER STOREY) T 4.35 TO COMPLY WITH T 4.33 AND W 4.5. DIAMETERS REQUIRED ARE INTERNAL DIAMETERS. I.e. 75mm IF FEED LESS THAN 50m OTHERWISE 100mm.
 - NATURAL OR MECHANICAL FIRE-SMOKE VENTILATION MUST BE PROVIDED AND COMPLY WITH T 4.42.
 - ANY FLAMMABLE LIQUID INSTALLATION SUCH AS FLAMMABLE LIQUID STORES, TANKS, SPRAY PAINTING FACILITIES OR LIQUID PETROLEUM GAS FACILITIES MUST COMPLY WITH THE PIETERMARITZBURG BY-LAWS RELATING TO FIRE PREVENTION AND FLAMMABLE LIQUIDS AND SUBSTANCES, AND THE RELEVANT SABS CODES, AND MUST BE REGISTERED WITH THE FIRE DEPARTMENT.
 - 30m FIRE HOSE REELS MUST BE PROVIDED TO AFFORD COVERAGE TO THE ENTIRE BUILDING. MINIMUM 1 PER 500 sqm OR PART THEREOF.
 - SAFETY DISTANCE TO COMPLY WITH T4.2.
 - ACCESS TO BUILDING FOR FIRE FIGHTING AND RESCUE PURPOSES MUST COMPLY WITH T 4.55. AND BE NOT LESS THAN 4.5m IN WIDTH AND HEIGHT RESPECTIVELY IF A CONTROLLED ENTRANCE WAY IS TO BE INSTALLED.
 - FIRE ESCAPE DOORS MUST BE HINGED AND OPEN IN THE DIRECTION OF TRAVEL.
 - ALL LOCKING DEVICES FITTED TO FIRE DOORS, EXIT DOORS, OR DOORS IN AN EMERGENCY ROUTE MUST BE APPROVED BY THIS DIVISION. KEY IN BOXES NOT PERMITTED T4.16.9
 - A MANUALLY ACTIVATED AUDIBLE ALARM SYSTEM IN ACCORDANCE WITH SANS 10139 TO BE PROVIDED. T4.31.3 (A1, A2, C1, F1)
 - AIR-CONDITIONING AND VENTILATION SYSTEM MUST COMPLY WITH T4.43.
 - FIRE STOPPING IN INACCESSIBLE CONCEALED SPACES MUST COMPLY WITH T4.39.
 - PROTECTION IN SERVICE SHAFTS MUST COMPLY WITH T4.40.
 - SERVICES IN STRUCTURAL OR SEPARATING ELEMENTS MUST COMPLY WITH T4.41.
 - FIRE RESISTANCE OF OCCUPANCY AND DIVISION SEPARATING ELEMENTS TO COMPLY WITH T4.6.
 - PROVISION OF ESCAPE ROUTES TO COMPLY WITH T4.16.
 - IF EXISTING FIRE EQUIPMENT DOES NOT AFFORD 100% COVERAGE TO ALTERATIONS OR ADDITIONS, ADDITIONAL FIRE EQUIPMENT MUST BE PROVIDED.
 - HOSE REELS FOR THE PURPOSE OF FIRE FIGHTING SHALL BE INSTALLED IN ANY BUILDING OF TWO OR MORE STOREYS IN HEIGHT OR IN ANY SINGLE STOREY BUILDING OF MORE THAN 250m² IN FLOOR AREA AT A RATE OF ONE PER 500m² OR PART THEREOF. T4.34.1

- SANS 10400 XA
- HOT WATER SERVICES ARE BEING ALTERED
 - ENERGY USAGE IN DWELLING IS BEING ALTERED
 - FLOORS IN DWELLING IS NOT BEEN ALTERED
 - EXTERNAL WALLS TO DWELLING ARE NOT BEEN ALTERED
 - FENESTRATION TO DWELLING IS BEEN ALTERED (SEE TABLES BELOW)
 - ROOF ASSEMBLY TO DWELLING IS NOT BEEN ALTERED
- BUILDING FENESTRATION IS EQUAL TO 12.0% OF NET FLOOR AREA. THE BUILDING COMPLIES WITH SANS 10400 XA 4.4.4.1 SEE ATTACHED ENERGY REPORT FOR DETAILS.



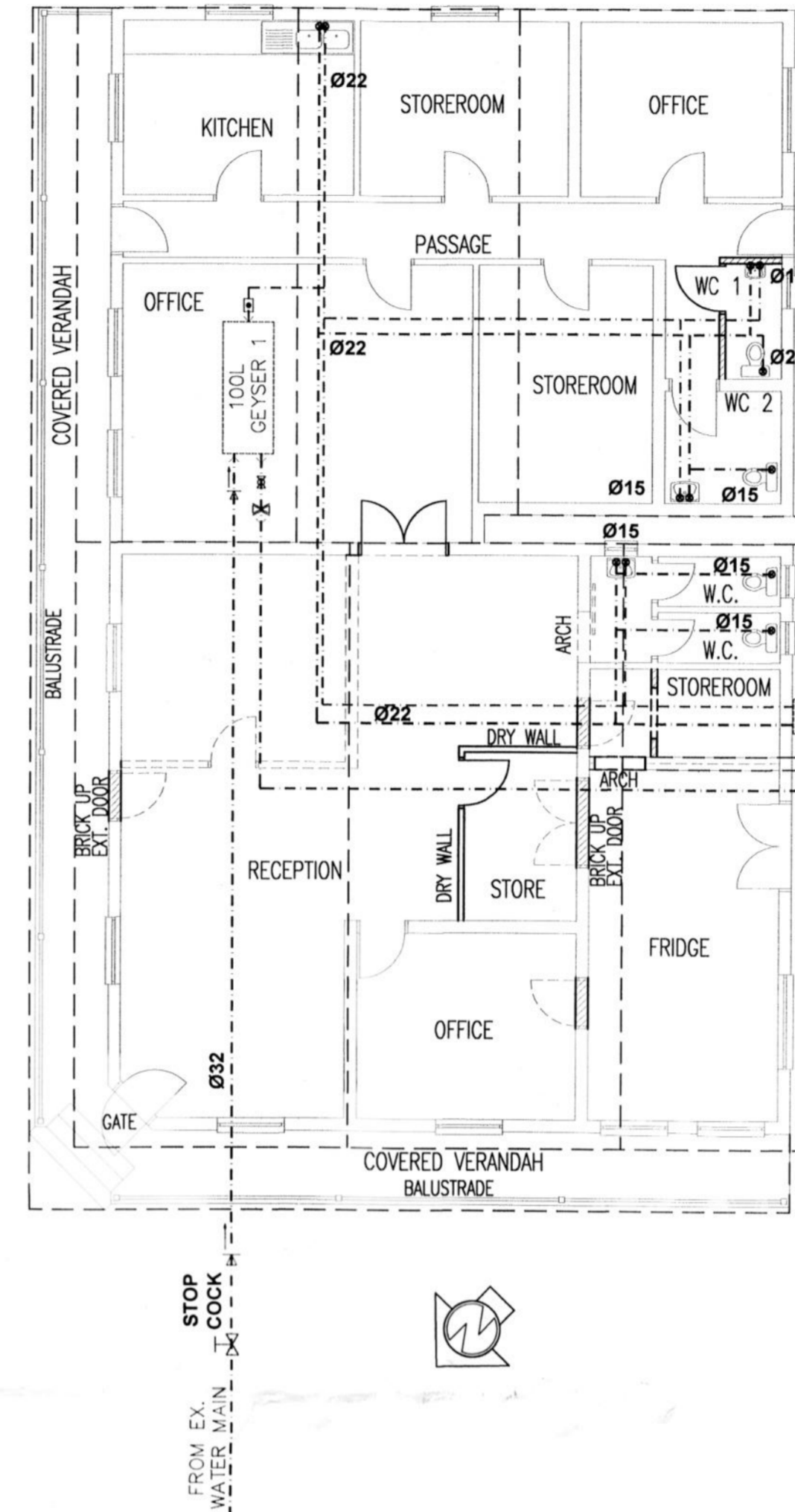
Typical Reticulation Layout

LEGEND	
—	Cold Water
—	Hot Water (logged pipe)
HP	Heat Pump
100L	100 Litre Geyser
ASO	Automatic shut-off valve
TSV	Temperature and pressure safety valve (safety valve)
NRV	Non-return valve
TC	Thermostatic controller
SC	Stop cock
TM	Top mixer
Ø15	Ø15mm pipe
Ø22	Ø22mm pipe
Ø32	Ø32mm pipe Communication Pipe
WH	Water Heater
—	Sewer Line (Existing & Proposed)
—	Storm Water Line (Existing & Proposed)

- GENERAL NOTES :**
- ROOF : AS PER INDIVIDUAL SECTION
 - EARTH TO BE POISONED UNDER ALL SURFACEBEDS.
 - A MINIMUM OF 3 COURSES OF BRICKFORCE OR INSTARECT LINTELS WITH A MINIMUM OF 4 COURSES BRICKWORK ABOVE ALL OPENINGS.
 - USE GREEN UNDERLAY TO ALL CONCRETE SLABS.
 - TERMINAL M.H. NOT TO BE LESS THAN 1.5m OR MORE THAN 3m FROM MUNICIPAL SEWER.
 - ALL RODDING WAYS TO BE INDICATED AT SURFACE BY MEANS OF AN I.E. COVER.
 - ALL BOUNDARY BEACONS TO BE FLAGGED BY A REGISTERED LAND SURVEYOR, PRIOR TO SETTING OUT.
 - THE CONTRACTOR IS TO INSPECT THE OFFICIAL APPROVED DRAWINGS TO ENSURE ALL AMENDMENTS HAVE BEEN ENDORSED THEREON AND THAT ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED BEFORE ANY BUILDING WORK IS COMMENCED WITH ANY DISCREPANCIES ARE TO BE REPORTED TO THE AUTHOR.
 - ALL FINISHES TO OWNER'S SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
 - EXCAVATIONS TO SIZES AS SHOWN ON PLAN OR OTHERWISE STIPULATED BY AN ENGINEER.
 - NEW STORMWATER TO NEW R/W SUMPS VIA 75x75mm GUTTERS AND 75x75mm DOWNPIPES AND PIPED VIA 100mm DIAMETER STORMWATER LINE TO EXISTING MUNICIPAL STORMWATER DRAIN.
 - SAFETY GLAZING TO BE PROVIDED AND TO COMPLY WITH PART N OF THE N.B.R.'S.
 - ALL NEW WALLS TO BE FOUNDED.
 - INTERNAL WALLS 600x230mm FOUNDATION, EXTERNAL WALLS 700x230mm FOUNDATION.
 - I.D. LINTELS OVER OPENINGS TO SUPPORT BRICKWORK ABOVE.
 - HANDRAILS AND BALUSTADING TO COMPLY WITH PART M OF THE N.B.R.'S.
 - DRAINAGE UNDER BUILDING TO COMPLY WITH PART P OF THE N.B.R.'S.
 - NOTE THAT ANY DEVIATION FROM THE APPROVED BUILDING PLANS WILL VOID THE APPROVAL OF THE PLANS AND REVISED BUILDING PLANS WILL BE REQUIRED TO BE SUBMITTED FOR APPROVAL
- ENVIRONMENTAL HEALTH NOTES :**
- PREMISES TO COMPLY WITH THE TOBACCO PRODUCTS CONTROL ACT.
 - WASTE MUST BE REMOVED BY A REGISTERED MEDICAL COMPANY.
 - PREMISES TO COMPLY WITH THE REGULATIONS RELATING TO THE MANAGEMENT OF HUMAN REMAINS. FOR WHICH A CERTIFICATE OF COMPETENCY IS REQUIRED.
 - A FACILITY FOR THE BACK-UP SOURCE OF ELECTRICITY IS TO BE PROVIDED.
 - A FACILITY FOR THE WASHING AND CLEANING OF HEARSESS MUST BE PROVIDED WITH SUITABLE DRAINAGE AND SCREEMED FROM PUBLIC VIEW.
 - A FACILITY FOR THE LOADING AND UNLOADING OF HUMAN REMAINS MUST BE PROVIDED.

KEY TO FIRE PLAN

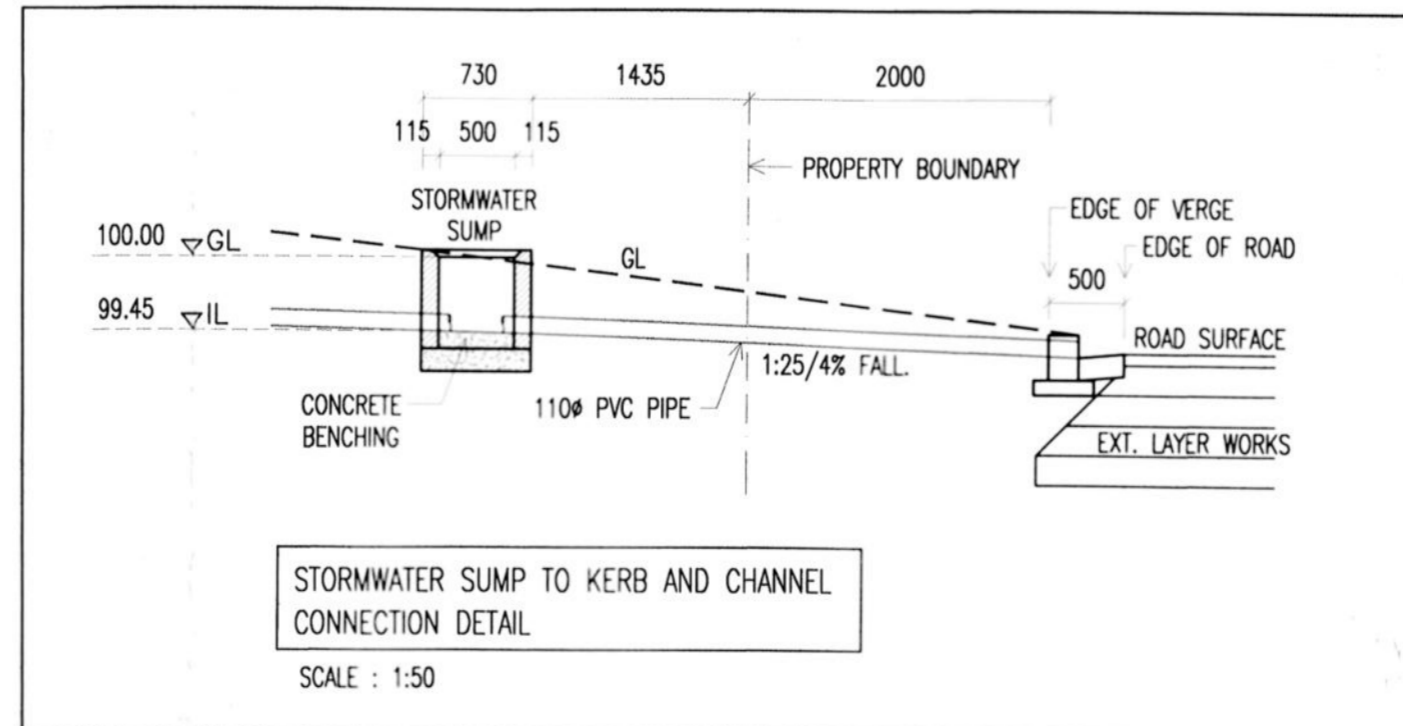
Escape Door	ED
Escape Route	ER
Feeder Route	FR
Fire Extinguisher	FE
Fire Hydrant	FH
Foam Inlet	FI
Fire Main	FM
Fire-pump Connection	FPC
Fire Stopping	FS
Heat Detectors	HD
Hose Reel	FHR
Rising Main	RM
Reflux Valve	RV
Smoke Detectors	SD
Sprinkler System	SS
Smoke Extractor	SX
Valve	V



GROUND STOREY WATER PLAN

SANITARY FIXTURE SCHEDULE			
ABLUTION FIXTURES	REQUIRED PART P	REQUIRED FOR STAFF	PROVIDED FACILITIES
WC	1	1	2
URINAL	1	1	0
WHB	1	1	2
FEMALE			
WC	2	2	2
WHB	1	1	1

POPULATION ASSESMENT (SANS 10400)				
OCCUPANCY	DESIGN POPULATION	FLOOR AREA	POPULATION (SANS 10400)	CLIENT STAFF POPULATION
OFFICES (G1)	1 PERSON/15 sqm	54.76	4	4
RECEPTION (G1)	1 PERSON/15 sqm	59.94	4	4
			8 TOTAL	8 TOTAL



ELECTRICAL LEGEND	
DB	Distribution board 1500 above floor level.
CM	Ceiling mounted light fitting. (15W CFL)
WM	Wall mounted light fitting. (15W CFL)
WCM	Waterproof ceiling mounted light fitting. (15W CFL)
OWM	Outside waterproof wall light. (15W CFL)
SCM	Surface ceiling mounted downlighter. (6W LED)
TC	Telephone Connection.
TV	TV Connection.
50L	50 Liter 1Kw Geyser connection.
100L	100 Liter 2Kw Geyser Connection.
150L	150 Liter 3Kw Geyser Connection.
15A	15 Amp Plugpoint.
30A	Double 15 Amp Plugpoint.
LD	Light dimmer switch.
LS	Light switch 1240 above floor level.
TL	Two-way light switch.
B	Bell switch
Bell	Bell
TS	Track with adjustable spot lights.
WS	Wall Spotlight.
OV	Oven connection.
UH	Underfloor heating with thermostat.
SFL	Single fluorescent light fitting. (58 FL)
DFL	Double fluorescent light fitting. (2x58W FL)
IU	Intercom unit.

DOOR SCHEDULE	
D1: STANDARD DOUBLE No. OF = 1 SOLID TIMBER AREA = 3.78 sqm.	D2, D3: STANDARD DOOR No. OF = 2 SOLID TIMBER AREA = 1.89 sqm.
ALL INTERIOR TIMBER DOORS TO BE HOLLOWCORE FLUSH OR SHALLOW MOULDED FINISH TO OWNERS SPECIFICATIONS.	
ALL EXTERIOR TIMBER DOORS TO BE HARDWOOD RAISED AND FELED PANEL DOORS TO OWNERS SPECIFICATIONS.	

OCCUPANCY CLASSIFICATION: G1

DRAWING: PROPOSED FUNERAL PARLOUR AND MORTUARY FOR THE CCJ TRUST.

PROPERTY DESCRIPTION: REM, PORTIONS 9 & 10 OF ERF 2216, PIETERMARITZBURG BEING 160 800M STREET, PIETERMARITZBURG SG CODE: N0FT025800022160009 & N0FT025800022160010

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SCALE: 1:100
DATE: JANUARY 2010
DRAWING NO./REVISION NO./SHEET NO. 2120/0/1 of 2

SIGNATURE: [Signature]

OWNER'S SIGNATURE: [Signature]

OFFICIAL STAMPS

LAND SURVEY DEPARTMENT

TOWN PLANNING DEPARTMENT

BUILDING SURVEY DEPARTMENT