

CITY OF CAPE TOWN
DEVELOPMENT MANAGEMENT

Recommended for Approval
Building Control Officer / Delegation

This application has been approved in terms of Section 7 (1) (b) of Act 103 of 1977, subject to the conditions in the attached letter of approval.

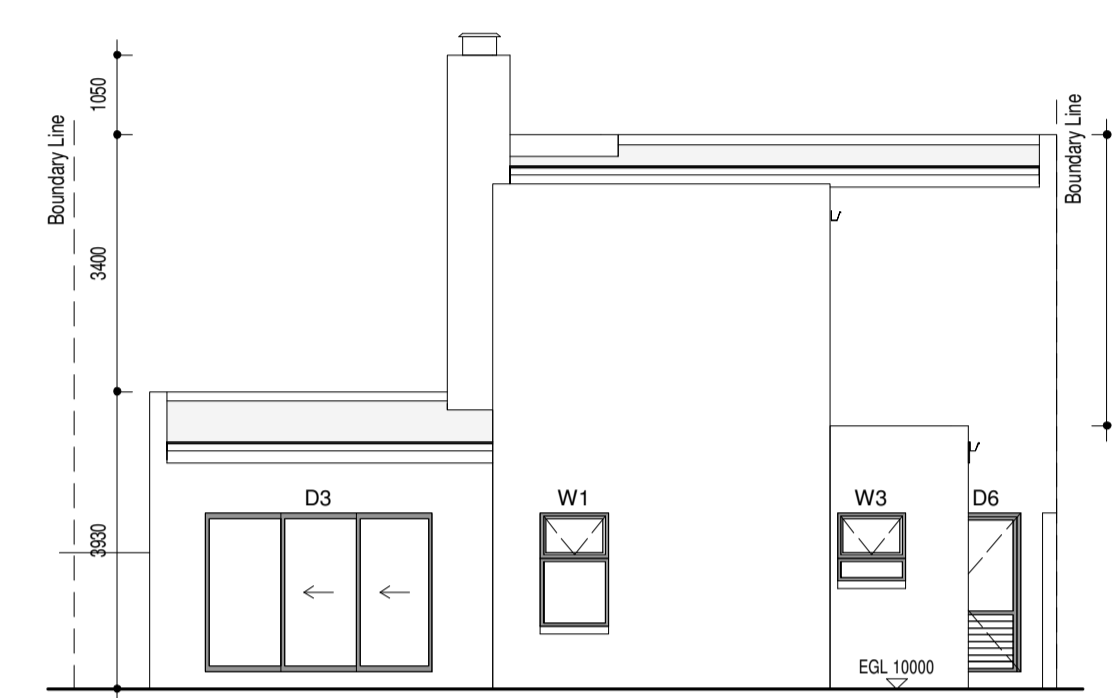
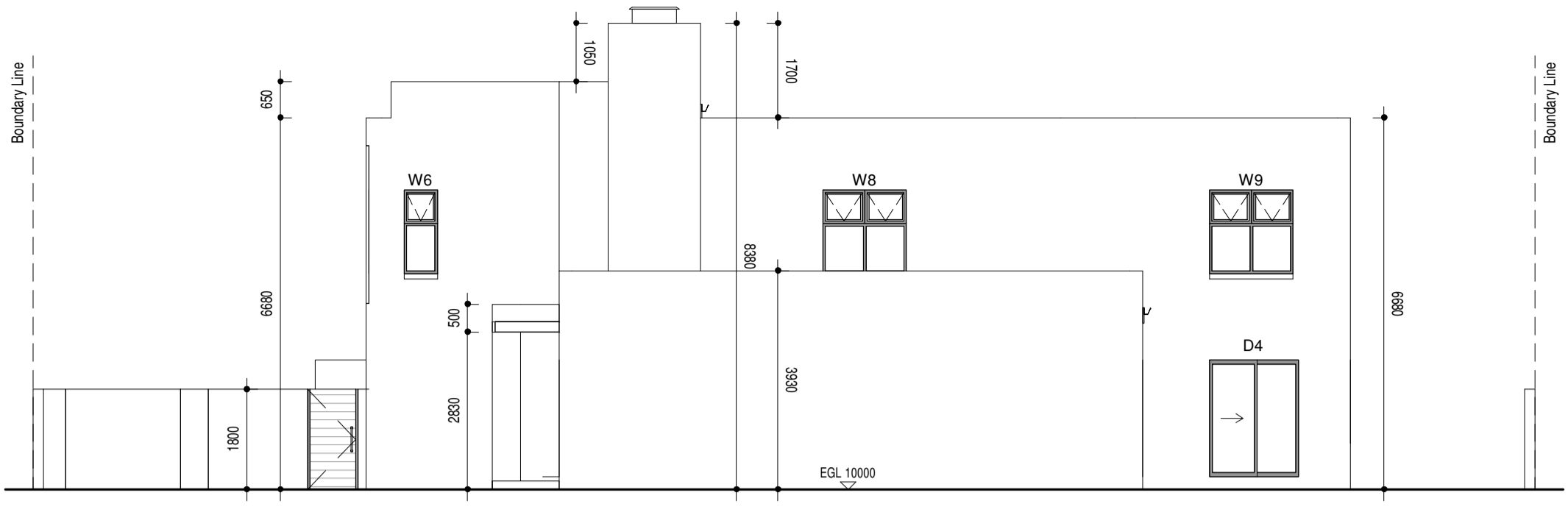
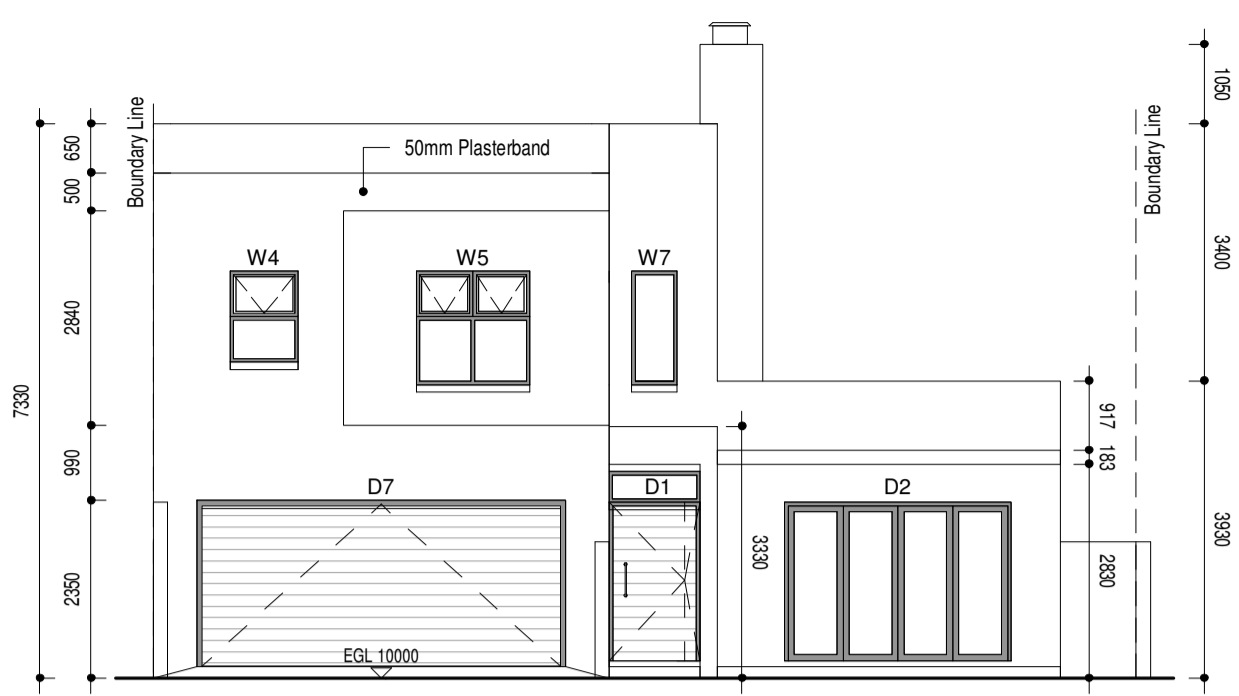
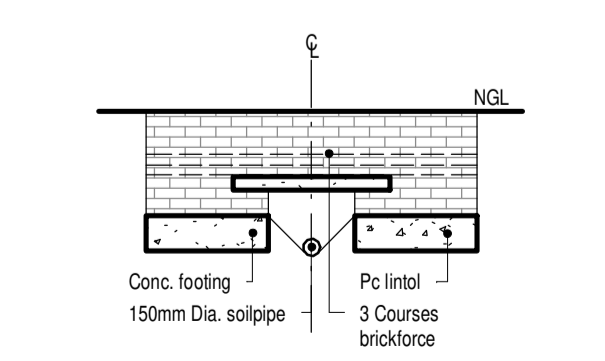
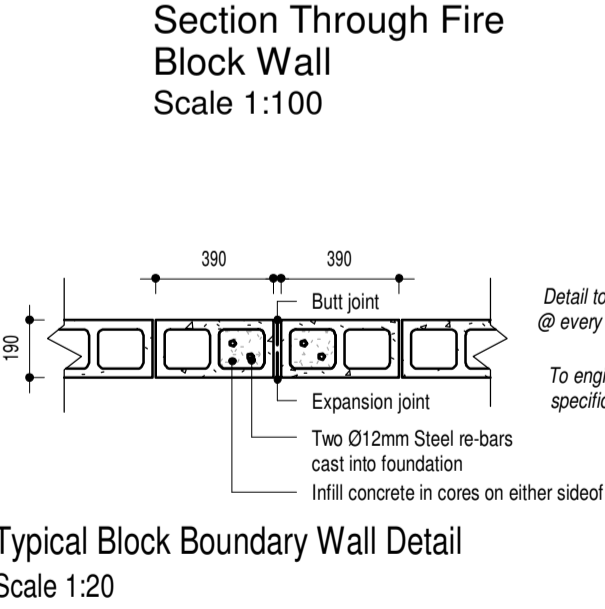
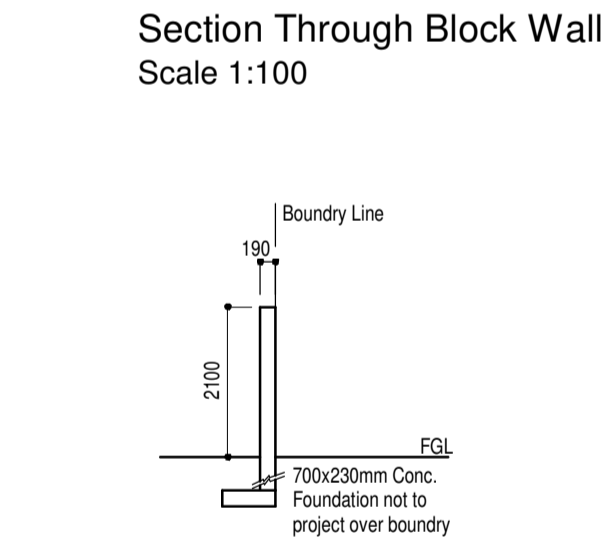
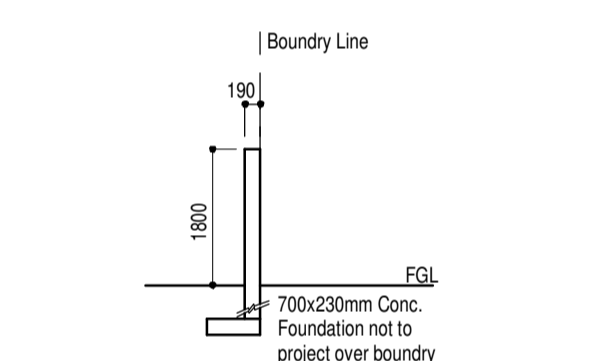
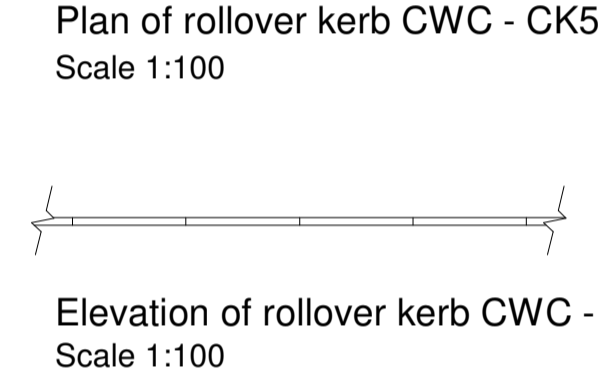
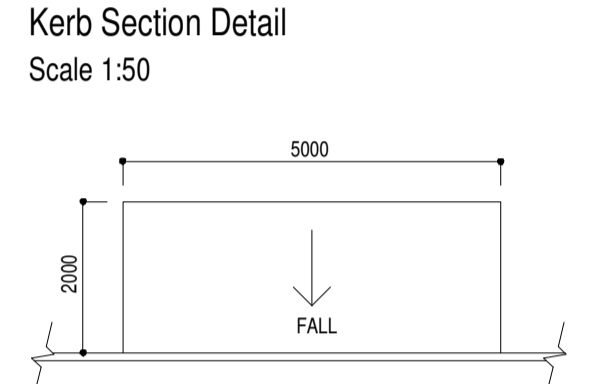
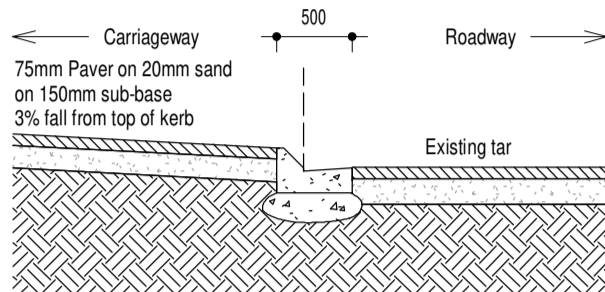
12 Jun 2023
Date

Planning & Building Development Management

Approval Number:
Application Number: 001700474680

City of Cape Town Stamp

COUNCIL DETAILS



DOOR SCHEDULE
1 : 50

NO.	DESCRIPTION	GLASS TYPE	GLASS COLOR
D1	ENTRY ALUMINIUM FRAME OPAQUE GLASS NORTH FACADE	ALUMINIUM INSERT	
D2	LIVING ALUMINIUM FRAME CLEAR GLASS NORTH FACADE	CLEAR GLASS	
D3	DINING ALUMINIUM FRAME CLEAR GLASS SOUTH FACADE	CLEAR GLASS	
D4	BEDROOM 4 ALUMINIUM FRAME CLEAR GLASS WEST FACADE	CLEAR GLASS	
D5	SCULLERY ALUMINIUM FRAME CLEAR GLASS NORTH FACADE	ALUMINIUM INSERT	
D6	GARAGE ALUMINIUM FRAME CLEAR GLASS SOUTH FACADE	ALUMINIUM INSERT	
D7	GARAGE ALUMINIUM FRAME NORTH FACADE	ALUMINIUM INSERT	
D8	OUTSIDE ALUMINIUM FRAME EAST FACADE	ALUMINIUM INSERT	

WINDOW SCHEDULE
1 : 50

NO.	DESCRIPTION	GLASS TYPE	GLASS COLOR
W1	BEDROOM 4 ALUMINIUM FRAME CLEAR GLASS SOUTH FACADE	CLEAR GLASS	
W2	WC ALUMINIUM FRAME FROSTED GLASS EAST FACADE	FROSTED GLASS	
W3	SCULLERY ALUMINIUM FRAME CLEAR GLASS SOUTH FACADE	CLEAR GLASS	
W4	EN-SUITE ALUMINIUM FRAME FROSTED GLASS NORTH FACADE SAFETY GLASS	FROSTED GLASS	SAFETY GLASS
W5	BEDROOM 1 ALUMINIUM FRAME CLEAR GLASS NORTH FACADE	CLEAR GLASS	
W6	BEDROOM 1 ALUMINIUM FRAME CLEAR GLASS WEST FACADE	CLEAR GLASS	
W7	PASSAGE ALUMINIUM FRAME CLEAR GLASS NORTH FACADE	CLEAR GLASS	
W8	PASSAGE ALUMINIUM FRAME CLEAR GLASS WEST FACADE	CLEAR GLASS	
W9	BEDROOM 2 ALUMINIUM FRAME CLEAR GLASS WEST FACADE	CLEAR GLASS	
W10	BEDROOM 3 ALUMINIUM FRAME CLEAR GLASS EAST FACADE	CLEAR GLASS	
W11	BATHROOM ALUMINIUM FRAME FROSTED GLASS EAST FACADE SAFETY GLASS	FROSTED GLASS	SAFETY GLASS
W12	PASSAGE ALUMINIUM FRAME CLEAR GLASS EAST FACADE SAFETY GLASS	CLEAR GLASS	SAFETY GLASS

XA AND FENESTRATION CALCULATIONS

SANS 10400:XA CALCULATIONS (ZONE4)	TARGET VALUE:	ACTUAL VALUE:	EXTRAS:
NETT FLOOR AREA (EXCL. STORE, GARAGES)		181m ² - New Building	
ROOF INSULATION	3.7	- Sisalation film R-value: 0.55 - 135mm Cellulose Fibre Loose-fill insulation R-value: 3.1 - 10mm Rhinoboard R-value: 0.05 Total R factor = 3.7 (deemed to satisfy)	
HOT WATER AND PIPE INSULATION:		-50% hot water generation by alternate source (heat pumps/solar geyser) -Insulated hot water piping to conform to SANS 204, R-value 1	-Neoprene insulation to be used -Fit water saving nozzles to all showers
LIGHTING:		-Lighting to be max 5w per sq/m as per SANS 204	-LED Energy saving lights to be used

FENESTRATION: (Solar heat gain / conductance) *GROUND FLOOR*

TARGET: (per floor)	FLOOR AREA	TOTAL OPENING VALUE (SQ/M)	CONDUCTANCE	SOLAR HEAT GAIN
			141.4	13.13
ACTUAL: (ground floor)				
	101m ²	18.84m ² (18.65%)	109.27	7.43

Resultant materials:
- Single Clear glass (5.8W/m² and SHGC=0.8 as per "Glass Warehouse" specifications)

Total fenestration exceeds maximum deemed to satisfy value of 15% of nett floor area, but remains within the SANS 10400 standard requirements for SA.
Please note that the Actual values must be lower than the Target values.

FENESTRATION: (Solar heat gain / conductance) *FIRST FLOOR*

TARGET: (per floor)	FLOOR AREA	TOTAL OPENING VALUE (SQ/M)	CONDUCTANCE	SOLAR HEAT GAIN
			112	10.4
ACTUAL: (ground floor)				
	80m ²	14.67m ² (18.34%)	85.09	4.69

Resultant materials:
- Single Clear glass (5.8W/m² and SHGC=0.8 as per "Glass Warehouse" specifications)

Total fenestration exceeds maximum deemed to satisfy value of 15% of nett floor area, but remains within the SANS 10400 standard requirements for SA.
Please note that the Actual values must be lower than the Target values.

Hot Water Calculation:

- People - 4
- Usage per person (L) - 115 L
- Daily Consumption (degC) - 460 degC
- Water Input Temperature (degC) - 20 degC
- Water Output Temperature (degC) - 55 degC
- Temperature Difference (degC) - 35 degC
- Specific Heat 1L Water (KJ/KG.K) - 4.182
- Daily Energy Usage (KJ) - 67 330.00 KJ
- kWh Per Day - 18.7 KWH
- Annual Usage (KWH) - 6826.53 KWH

3 413 KWH (50%) - to be provided with solar/heat pump as per SANS XA201

Proposed Installation:
• 200L Solar Geyser with 2KW Backup Electric element. Collector to be 2.5m²
• Solar collector area = 2.5m²
• Solar Energy 3823 KWH > 3413 KWH (50% of required consumption)
• Outstanding energy to be provided by 2KW electric geyser

• Kwiksol solar panel efficiency = 4.19 KWH/M²
• Solar collector area = 2.5m²
• Water inlet temperature = 20degC
• Water storage temperature = 55degC

NOTES:

All work to be carried out in strict accordance with local authority regulations and by-laws. Contractor must check all levels and dimensions on site before the commencement of any work. Any such oversight resulting in errors in levels or dimensions will be the responsibility of the contractor. Written dimensions should be used in preference to scaling the drawings. All work to be carried out in strict accordance with the drawings. Any discrepancies or incorrect information detected on the drawing should be reported to the Architect prior to construction. Should any portion of the drawing be unclear or contain insufficient information for construction it should be reported to the Architect immediately. Drainage connection point and levels to be verified by the plumbing contractor before commencement of any work.

Roof construction (house):
Galvanized Chromadek 18R Roof Sheeting in grey colour @ 3° pitch fixed to 76x50mm SA Pine Purlins @ max 1200mm c/c with 76mm Clou Nails on SANS10400 approved 405 Sisalation lapped 200mm on 228x76mm SA Pine Timber Grade 6 Rattlers & Trusses @ 850mm c/c. Rattlers to be tied into brickwork with 32x1.6mm Galv. hoop iron built minimum 600mm into brickwork. Timber ends built into brickwork to be treated with Carbolineum and wrapped in DPC. All waterproofing to be managed by a specialist.

Roof Construction (cov. entry)
Stonechip on bituthene waterproofing membrane or equal on screed laid to min. 1' fall towards lubon on concrete slab. (to engineer's specification). All waterproofing to be done by specialist.

Walls:
External walls maxi bricks- 230 cavity walls unless shown otherwise, internal walls- 90mm or 180mm solid walls. External cavity walls to have stepped DPC's at floor level and around all openings. Cavity walls to have 2.5 galv. wire ties per m². Cavities to be concrete filled to the underside of stepped DPC at ground level. Weepholes @ 1150mm c/c to all stepped DPC's. Prestressed concrete lintels over all openings in brickwork where no RC beams are specified with minimum of 4 courses of brickwork over.

Floor Construction:
SA Pine skirting on specified floor covering on 25mm screed on 100mm concrete slab on SANS10400 approved 275 micron DPM on 50mm clean sand binding on well compacted earth fill.

Ceilings:
6.5mm Skimmed rhinoboard ceiling on 38x38mm brndering at 450mm centers fixed to underside of rafters (to man. spec.)

Close Cavities:
All cavities to be closed min. 3 courses below wall plates. Hoop-iron for fixing roof to go through closure and to locate 7 to 10 courses below wall plate level alternatively.

Windows and Doors:
All standard windows and doors in aluminium Kenzo or equal. All standard internal doors in timber (to be patterned 40mm hollow core) lighting and ventilation to comply with local authority requirements. DPC to be wrapped around all window and door openings.

Precast Lintels:
To comply with part K of SANS 10400. All openings <900mm to be prestressed concrete lintels. All openings >900mm to be prestressed concrete lintels and to have min. 4 courses brickwork with brickforce to each course. All openings >3000mm to engineer's specification.

Glazing:
All glazing to comply with part n of SANS10400. All glazed areas exceeding 1m² or less than 500mm above FFL to be safety glazed.

- General Notes:**
1. Water meter and connection pipe to be min. 19mm i.d.
 2. All plumbing pipes to be concealed.
 3. External steps max. risers 180mm, min. treads 250mm.
 4. Expansion joints to be provided to boundary walling at max. 5000mm centers.
 5. Light switches to be 1200mm above FFL unless otherwise shown.
 6. Wall sockets to be 400mm above FFL unless otherwise shown.
 7. WM and DW waste to be min. 600mm above FFL.
 8. Supply and waste to w/m and DW to be in 80mm deep recess. Stopcock to be above counter.
 9. All structural work to be referred to engineer.
 10. All design work to be in accordance with 'developers' and homeowners association design guideline and approved colour chart.
 11. Weepholes to be min. 150mm above NGL.
 12. No foundation or any portion of the building to extend over the site boundary.
 13. All timber built into brickwork to be wrapped in DPC.
 14. Provide 1000mm high aluminium balustrades with max. 100mm openings to all balconies & staircases.
 15. 40mm 1/2 hr fire rated door to be provided between the garage and the dwelling.
 16. Doors & sileights to be glazed with safety glazing.
 17. All flashing and waterproofing to be done by specialist.
 18. Plumber to provide min. class 1 copper water pipes to building.
 19. Rhinoboard ceilings fixed to 38x38mm brndering to u/s of concrete slab to be provided to all ceilings.

PROCEDURES & VARIATIONS TO PLANS FOR CONSTRUCTION

REV:	DATE:	DETAILS:

AREAS:

GROUND FLOOR	FIRST FLOOR	SITE AREA COVERAGE	FLOOR FACTOR
- 149m ²	- 93m ²	- 350m ²	- 0.69

SIGNATURE(S):

PROJECT
PROPOSED NEW FOR
FACTCON ON
ERF 814 - SANDOWN
25 Dombeya Street

Graham Holland
Architectural Design

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DRAWN: TM	SCALE: As indicated	REVISION: 2.0
SHEET: 2	MODIFIED DATE: 28/03/2023	DRAWING No.: 21-15