

	AREA 4.50m <sup>2</sup>	AREA 2.10m <sup>2</sup>	AREA 1.57m <sup>2</sup>	AREA 0.90m <sup>2</sup>	AREA 0.36m <sup>2</sup>	AREA 2.88m <sup>2</sup>	AREA 1.44m <sup>2</sup>
WINDOW NO.	W1	W2	W3	W4	W5	W6	W7
FRAME	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
GLAZING	5mm clear	5mm clear	5mm clear	6mm Obscure	6mm Obscure	5mm clear	5mm clear
	monolithic glass	monolithic glass	monolithic glass	Toughened safety glass	Toughened safety glass	monolithic glass	monolithic glass
LOCATION	Ex. Lounge	Ex. Master bedroom	Ex. Master bedroom	Ex. en-suite	Ex. En-suite, Ex. Bathrm., Lounge	Ex. bedroom 1,2 & Ex. playrm.	Ex. kitchen & Garage
NO. REQUIRED	1 off	1 off	1 off	1 off	3 off	1 off	2 off

	AREA 1.62m <sup>2</sup>	AREA 2.62m <sup>2</sup>	AREA 0.72m <sup>2</sup>
WINDOW NO.	W8	W9	W10
FRAME	Aluminium	Aluminium	Aluminium
GLAZING	5mm clear	5mm clear	5mm clear
	monolithic glass	monolithic glass	monolithic glass
LOCATION	Ex. kitchen	Ex. dining rm.	Ex. entrance hall, passage
NO. REQUIRED	1 off	1 off	3 off

**WINDOW SCHEDULE**  
SCALE 1:100

**NEW OUT BUILDING**  
**1. ORIENTATION**

In view of the existing building conditions it is not possible to implement this.

**2. EXTERNAL WALL**

All external walls to be 220mm blockwork, plastered on the internal side only.  
All internal walls to be 110mm blockwork, plastered on both sides.

**3. FENESTRATION**

Total Dwelling F.A.R = 262.95m<sup>2</sup>  
Permitted window area = 45.65m<sup>2</sup> (20%)  
Total window area = 24.93m<sup>2</sup> (9.48%) complies therefore no further calculation is required

**4. ROOF ASSEMBLY**

Climatic zone - 5, Min R-value = 2.7  
Heat flow direction - Downwards  
Roof construction - conc./clay tiles at pitch > 20° pitch with horizontal ceiling below rafter  
R - value for Outdoor air film - 0.03m<sup>2</sup>/K/W  
R - value for 4mm Waterproofing - 0.03m<sup>2</sup>/K/W  
R - value for Solid Concrete - 0.07m<sup>2</sup>/K/W  
R - value for Ceiling air space - 0.22m<sup>2</sup>/K/W  
R - value for Plasterboard Ceiling - 0.06m<sup>2</sup>/K/W  
Total R - Value for roof construction - 0.57m<sup>2</sup>/K/W  
Min R - value required for insulation - 2.13m<sup>2</sup>/K/W  
Min 100mm fibre glass flexible blanket insulation to achieve  
R - value of 2.15 to 2.29m<sup>2</sup>/K/W

**5. ENERGY CALCULATIONS**

**ENERGY DEMAND**  
Dwelling: 262.95m<sup>2</sup> x 5W/m<sup>2</sup> = 1314.75 kWh

**ENERGY CONSUMPTION**  
(hours per year) x (no. of light X 11watts)

Dwelling: 2192 x 0.143kWh (13 lights) = 313.45kWh per ANNUM

Therefore CONSUMPTION:  
Dwelling 313.45kWh  
DEMAND:  
Dwelling (1314.75kWh) complies

**6. HOT WATER SUPPLY**

Daily usage = (160L x 1) x 4.182 x 18° = 10 538.64 = 10.538 MJ

Therefore 5.269 MJ required via means other than electrical resistance.

100L Solar water heated water supply to be provided with 'Q' value of 11.077 MJ.

All hot water pipes to be clad in insulation with R-VALUE greater than 1.00 for pipes = or < 80mm.

Solar installation to comply with SANS 1307, SANS 10106, SANS 10254, SANS 10252-1

**OCCUPANCY CLIFICATION - H4**

**GENERAL:**

- All work to comply with NBR or SANS
- All levels and dimensions to be checked on site prior to commencement of building.
- Discrepancies to be brought to the authors attention.
- All written dimensions taken in preference to scaling.
- All boundary beacons to be flagged by a registered land surveyor and the contractor to obtain a certificate stating that the work has been correctly set before proceeding.
- All foundations taken to hard virgin ground.

**WALLS:**

- Walls of 220mm & 110mm brickwork & blockwork.
- External walls all to be finished as per spec.
- Internal walls to be plastered & painted
- Walls all ventilated with air bricks
- All walls to comply with Part - K (SANS 10400)

**ROOF CONSTRUCTION:**

- See Section A - A & B - B
- Flashing provided where necessary.
- Fascias and bargeboards all in fibre cement.
- Ceilings all 6.0mm plasterboard and painted with gypsum cornices.
- All rain water goods to match existing.

**DOORS & FRAMES:**

- Aluminium frames on all external doors
- All external doors as per schedule
- All internal doors are flush panel semi solid core faced in.
- All timber doors provided with 1 pair (internal) and 1.5 pairs (external) 100 mm brass butt hinges and lockset.

**WINDOWS & GLAZING:**

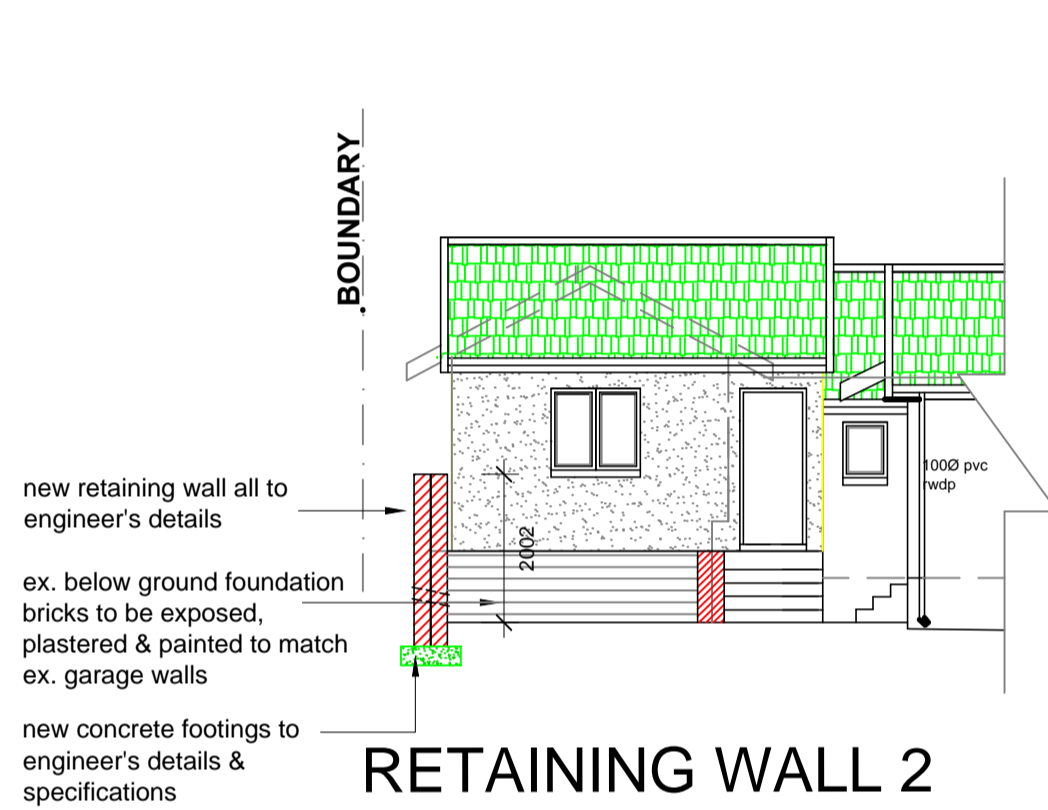
- Windows, as shown on schedule
- All glazing in accordance with Part "N" of SANS 10400.
- Glazing to bathrooms & WC's all obscure toughened safety glass

**PLUMBING:**

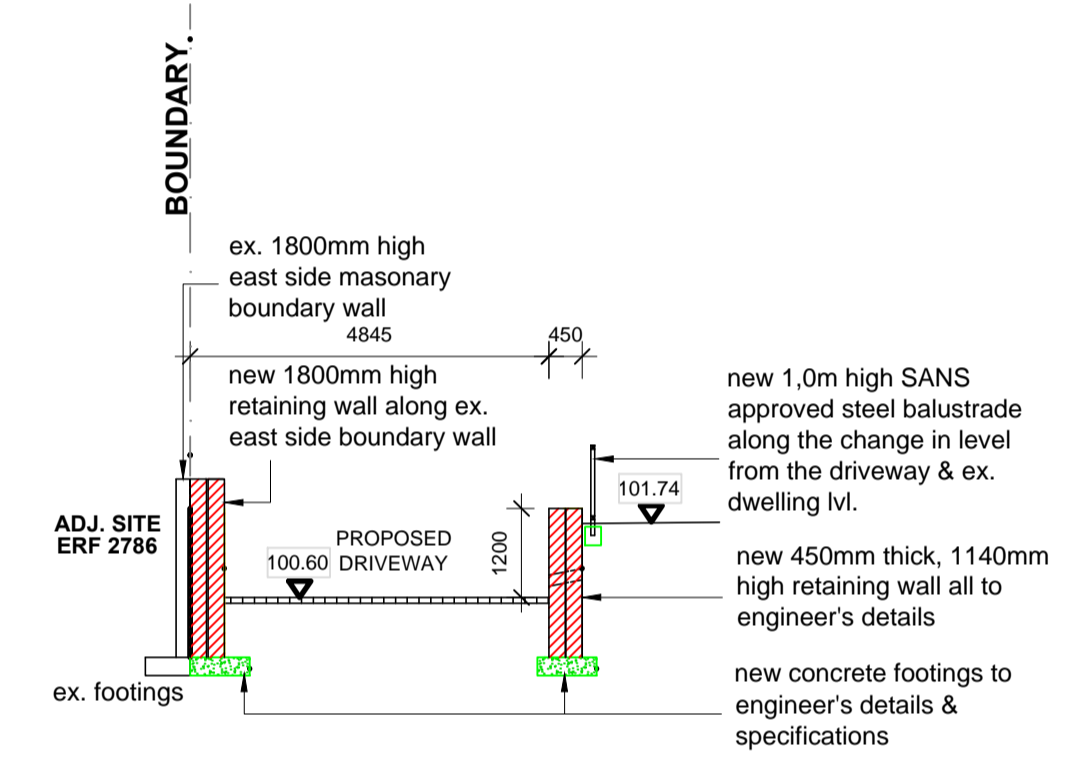
- Waste pipes : 50Ø PVC pipes
- Internal water pipes : 15Ø copper feed to fittings
- Sewer pipes : 100Ø PVC pipes
- New sewer line to connect to existing as shown
- All WHB to have 50Ø 1 way vent valve
- All WC's to have 2 way vent valve

**STORM WATER:**

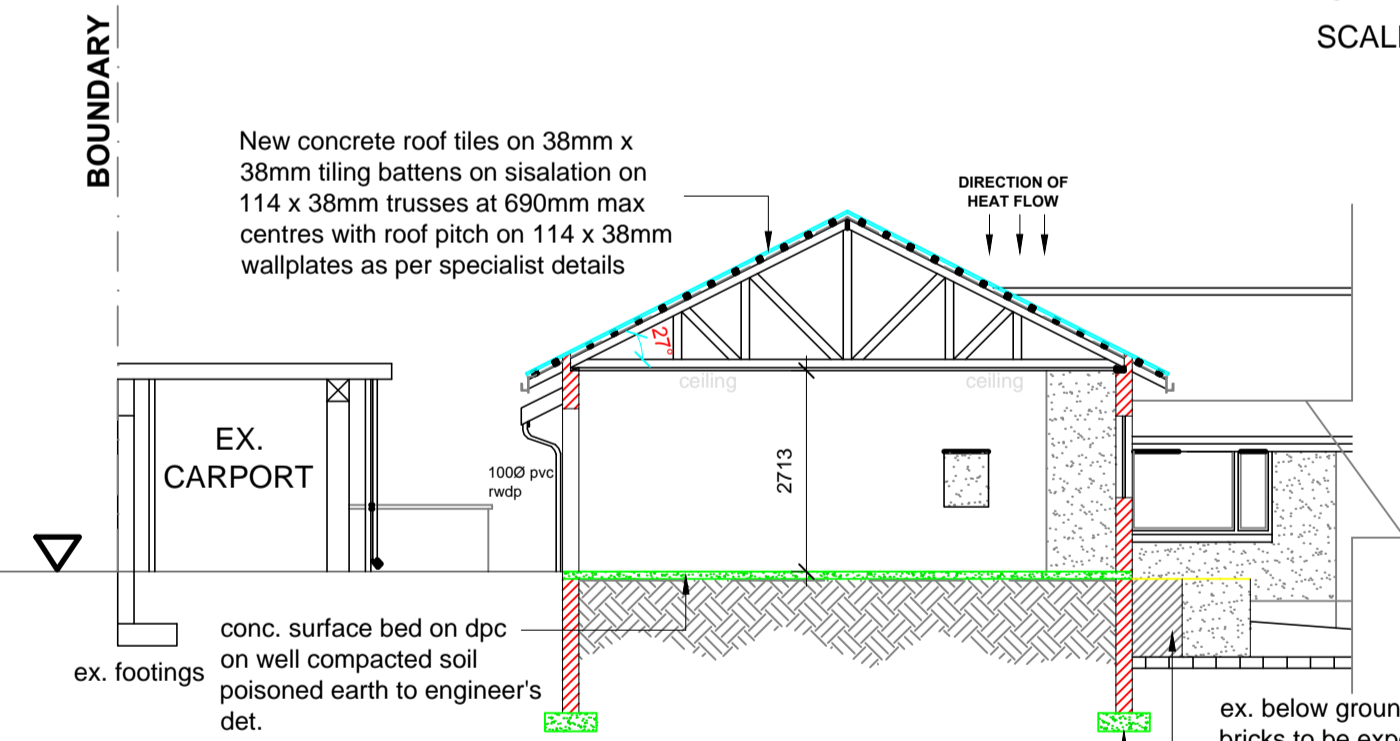
All s.w to discharge to ex. storm water line



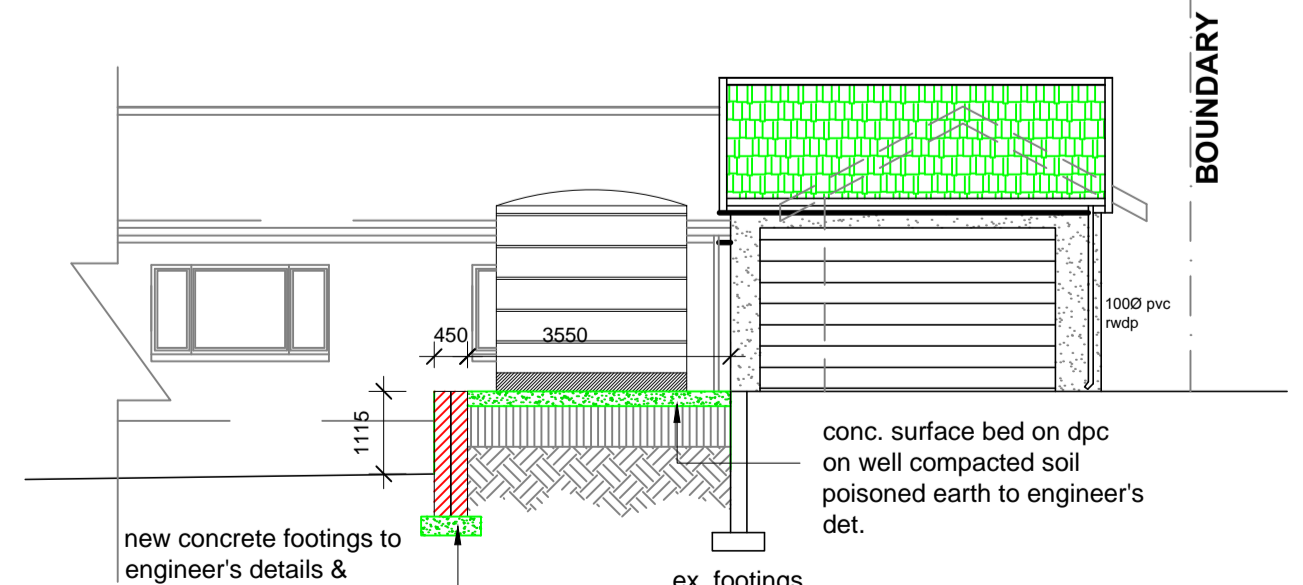
**RETAINING WALL 2 SECTION**  
SCALE 1:50



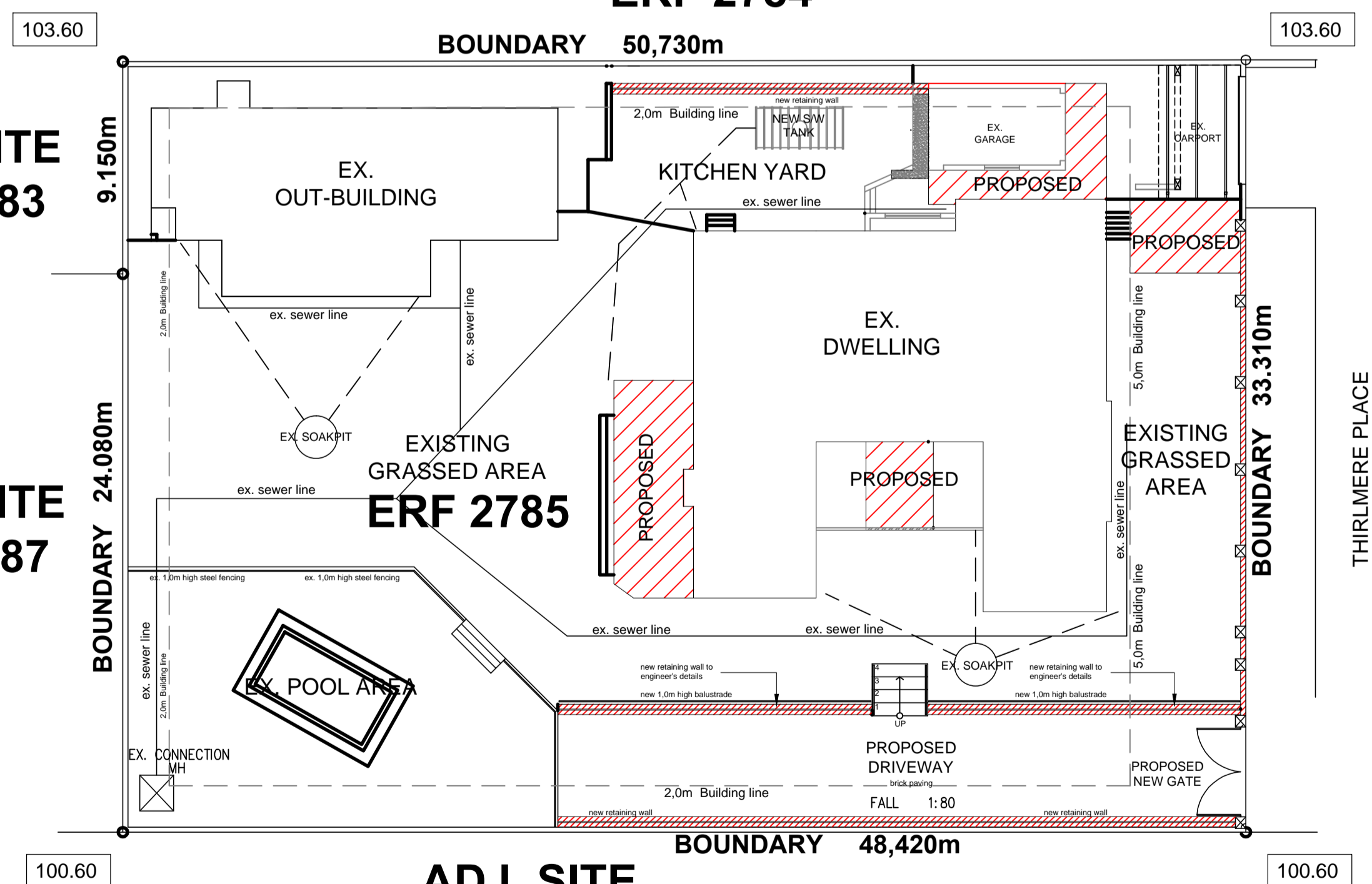
**RETAINING WALL 1 SECTION B - B**  
SCALE 1:50



**WEST SECTIONAL ELEVATION**  
SCALE 1:100



**NORTH ELEVATION**  
SCALE 1:100



**SITE PLAN**  
SCALE 1:200

**ADJ. SITE ERF 2786**

NAME	ADDRESS	I.D NO.	TEL.	SIGNATURE
P. COJUE	5 THIRLMERE PL	7808138042082	082 468 5712	
RICH. NAIDOO	4 THIRLMERE PL	5912105276181	082 468 5712	
A. NAIDOO	5 THIRLMERE PL	7904165182083	083 9499 349	

ETHEKWINI MUNICIPALITY  
LAND USE MANAGEMENT: Central REGIONAL OFFICE  
**GRANTED**  
PA: Rel202210270047/CN  
NAME: Eric Parker  
SIGNATURE: DATE: 03/11/2022

Author:   
Client:   
  
mabhalala archiplan  
Architectural Services  
203 Kamassa, 27 Gateway Road Mayville Durban 4091  
Tel: 063 437 2270 E-mail: mngoma7@gmail.com  
REG. NO. PAT24745246

**PROJECT:**  
PROPOSED ADDITIONS & ALTERATIONS TO EX. DWELLING FOR J. MAHARAJ & S. NAIDOO OF ERF 2785, 6 THIRLMERE PLACE DURBAN NORTH

**SUBMISSION DRAWINGS:**  
SITE PLAN, SECTIONS AND WINDOW SCHEDULE

Date:	AUGUST 2022
Scale:	AS SHOWN
Design:	
Drawn:	N.A MNGOMA
DWG No/Sheet No:	