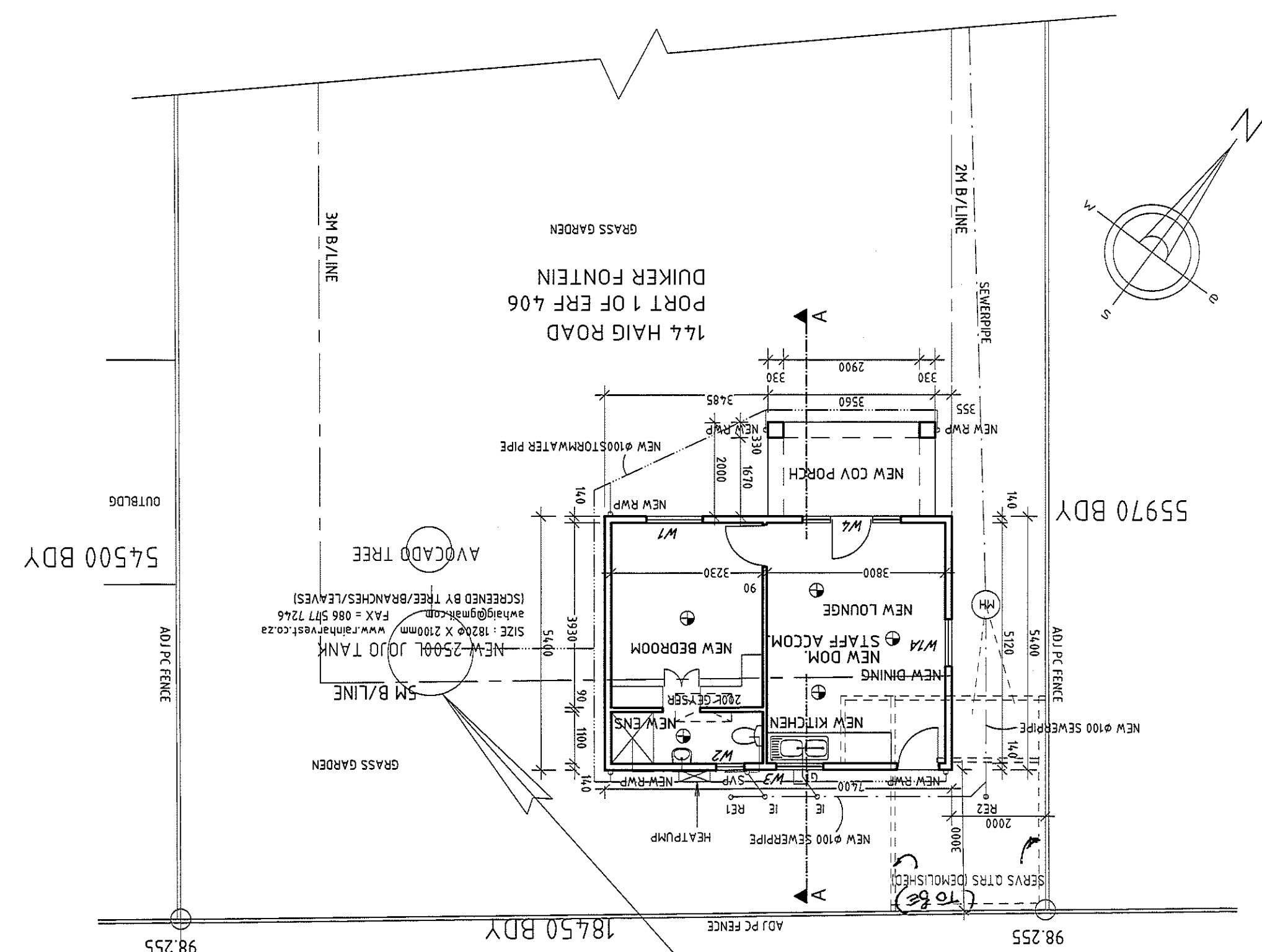


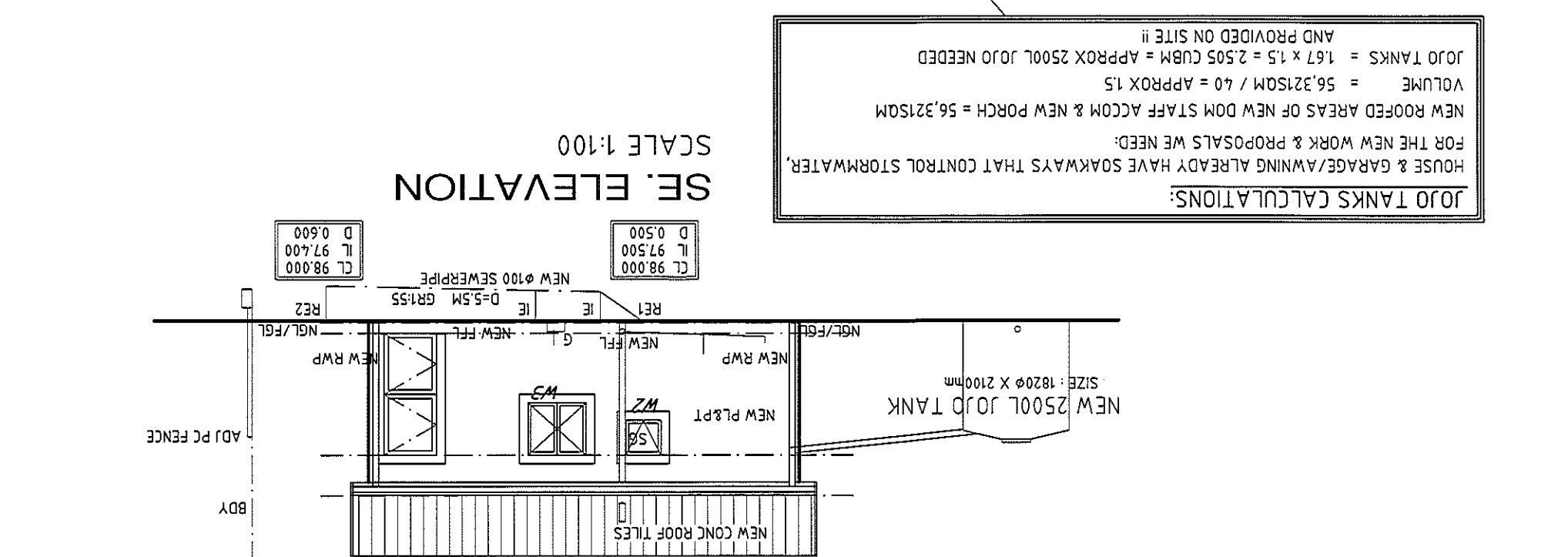
R-VALUES (DOWN) 0.549
 AERATED CONCRETE BLOCK WALL 140mm

PART SITE PLAN & GROUND FLOOR PLAN

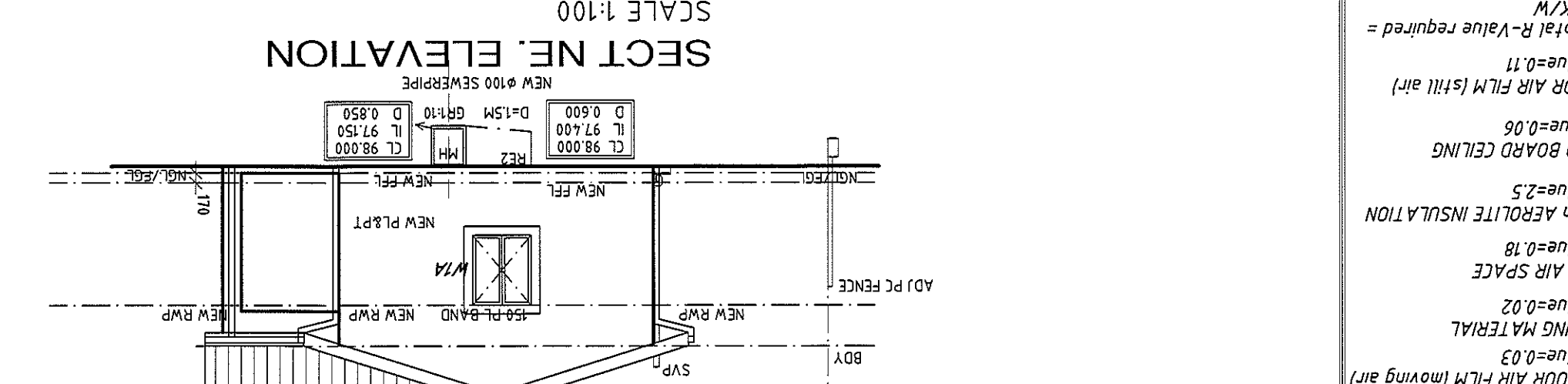
SCALE 1:100



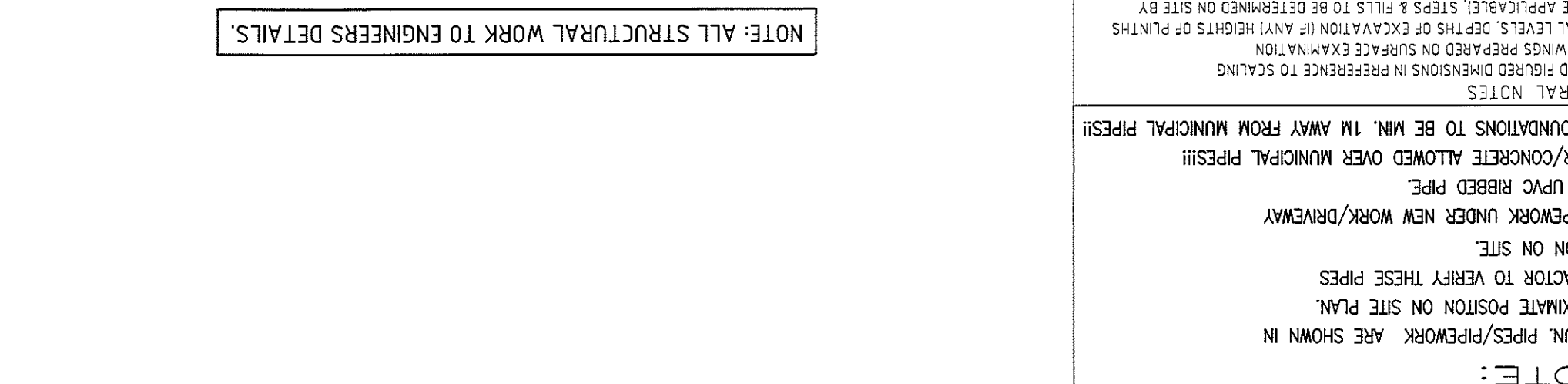
107 STATION RIDGE ROAD
 REM/1/ ERF 406
 DUKER FOUNTAIN
 97 STATION RIDGE ROAD
 DUKER FOUNTAIN
 18450 BDY
 98 255
 98 255
 54500 BDY
 55970 BDY



JOJO TANKS CALCULATIONS:
 HOUSE & GARAGE/AVENUE ALREADY HAVE SOAKWAYS THAT CONTROL STORMWATER.
 FOR THE NEW WORK & PROPOSALS WE NEED:
 NEW ROOFED AREAS OF NEW DOM STAFF ACCOM & NEW PORCH = 56.231SQM
 VOLUME = 56.231SQM / 40 = APPROX 1.5
 JOJO TANKS = 1.67 x 1.5 = 2.505 CUBM = APPROX 2500L JOJO NEEDED
 AND PROVIDED ON SITE !!



SE. ELEVATION
 SCALE 1:100



NOTE: ALL MIN. PEPS/PEPWORK ARE SHOWN IN APPROXIMATE POSITION ON SITE PLAN. CONTRACTOR TO VERIFY THESE PEP'S POSITION ON SITE. ALL PEPPERWORK UNDER NEW WORK/DRIVEWAY TO BE UPEX RIBBED PEPE. NO TYP/CONCRETE ALLOWED OVER MUNICIPAL PEPS!! NEW FOUNDATIONS TO BE MIN. 1M AWAY FROM MUNICIPAL PEPS!!

GENERAL NOTES

- READ RAISED DIMENSIONS IN PRESENCE TO SCALING
- DRAWINGS REFERRED TO SURFACE ELEVATION
- FINAL LEVELS, DEPTHS OF EXCAVATION (IF ANY) HEIGHTS OF PLUMBING
- INWERE APPLICABLE, STEPS & TILLS TO BE DETERMINED ON SITE BY CONTRACTOR/ENGINEER
- D.P.C UNDER ALL WALLS & EXTERNAL WALLS
- ALL ROOMS ARE FOR THE INTENTION AS STATED ON PLAN
- AS WELL AS THE NATIONAL BUILDING REGULATIONS

OUTDOOR AIR FLM (having air)
 R-value=0.03
ROOFING MATERIAL
 R-value=0.02
ROOF AIR SPACE
 R-value=0.18
100mm AEROLITE INSULATION
 R-value=2.5
RHINO BOARD CEILING
 R-value=0.11
INDOOR AIR FLM (still air)
 R-value=0.11
2.7m²/m²
Total R-Value = 2.9m²/m²

HOT WATER SUPPLY:
 1. ALL INTERNAL HOT WATER SUPPLY (480mm) TO BE INSULATED WITH A MINIMUM R-VALUE OF 100.
 2. ALL HOT WATER VESSELS/TANKS TO BE INSULATED WITH A MATERIAL ACHIEVING A MIN R-VALUE OF 2.00
 3. ALL TO MANUFACTURERS SPECIFICATION TO COMPLY WITH SANS 10400 - PART XA)

GEYSER BLANKET USED:
 A PREMIUM SPEC UNIVERSAL GEYSER BLANKET MADE FROM HIGH PERFORMANCE PRODUCT SUITABLE FOR USE ON GEYSER BLANKET WITH SILVER PLASTIC FILM. THE PREGARE FROSTY GEYSER BLANKET IS A HIGH PERFORMANCE PRODUCT SUITABLE FOR USE ON GEYSER BLANKET. IT CARRIES THE ON DOOR/OUTDOOR MOUNTED GEYSERS. IT CARRIES THE SABS MARK AND IS ENDORSED BY ESKOM. MIN R VALUE = 2.00

HOT WATER SUPPLY:
 200L ELECTRICAL GEYSER TO BE USED AND COVERED WITH GEYSER BLANKET, AND SITUATED AS PER PLAN APPLICATION SIZE: 100 - 500LITRE MODEL: OSVAB/P KWIKSOLAR HEATPUMP (TEL: 032 - 9671802) HEATING CAPACITY: 4.5KW MONS: 5000
 HEATED BY HEAT PUMP = 50% HOT WATER CONSUMPTION. THEREFORE: 40L PER DAY & 14600L PER ANNUM ANNUAL CONSUMPTION = 80L X 365 = 29200L 2 X 40L SHOWERS DAILY = 80L PER DAY 2 PEOPLE PER BEDRM X 3BEDROOMS = 2 PEOPLE 50% BY ELECTRICAL GEYSER & 50% BY HEATPUMP

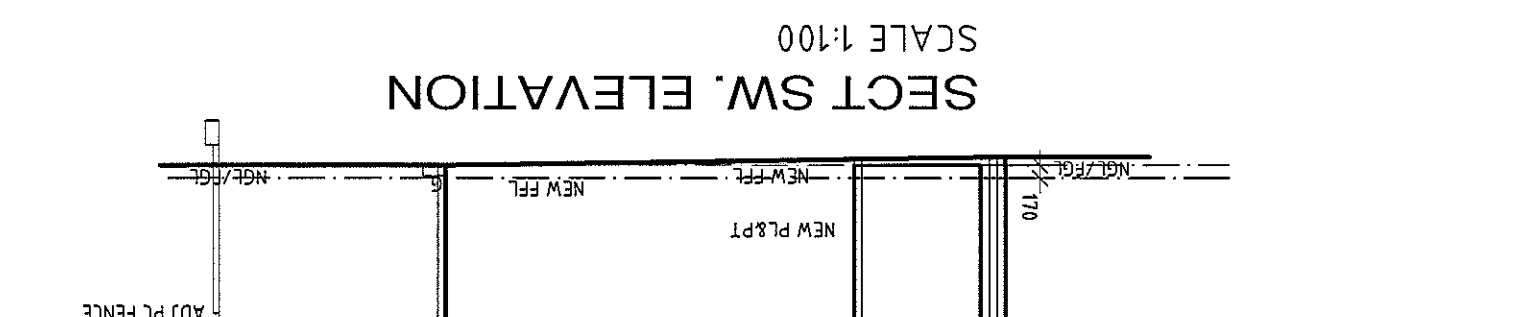
HOT WATER SUPPLY CALCULATIONS:
 2 PEOPLE PER BEDRM X 3BEDROOMS = 2 PEOPLE
 2 X 40L SHOWERS DAILY = 80L PER DAY
 THEREFORE: 40L PER DAY & 14600L PER ANNUM ANNUAL CONSUMPTION = 80L X 365 = 29200L
 HEATED BY HEAT PUMP = 50% HOT WATER CONSUMPTION.
 KWIKSOLAR HEATPUMP (TEL: 032 - 9671802)
 MODEL: OSVAB/P
 HEATING CAPACITY: 4.5KW
 MONS: 5000
 APPLICATION SIZE: 100 - 500LITRE
 200L ELECTRICAL GEYSER TO BE USED AND COVERED WITH GEYSER BLANKET, AND SITUATED AS PER PLAN
 (ABOVE NEW EMS)

GEYSER BLANKET USED:
 A PREMIUM SPEC UNIVERSAL GEYSER BLANKET MADE FROM HIGH PERFORMANCE PRODUCT SUITABLE FOR USE ON GEYSER BLANKET WITH SILVER PLASTIC FILM. THE PREGARE FROSTY GEYSER BLANKET IS A HIGH PERFORMANCE PRODUCT SUITABLE FOR USE ON GEYSER BLANKET. IT CARRIES THE SABS MARK AND IS ENDORSED BY ESKOM. MIN R VALUE = 2.00

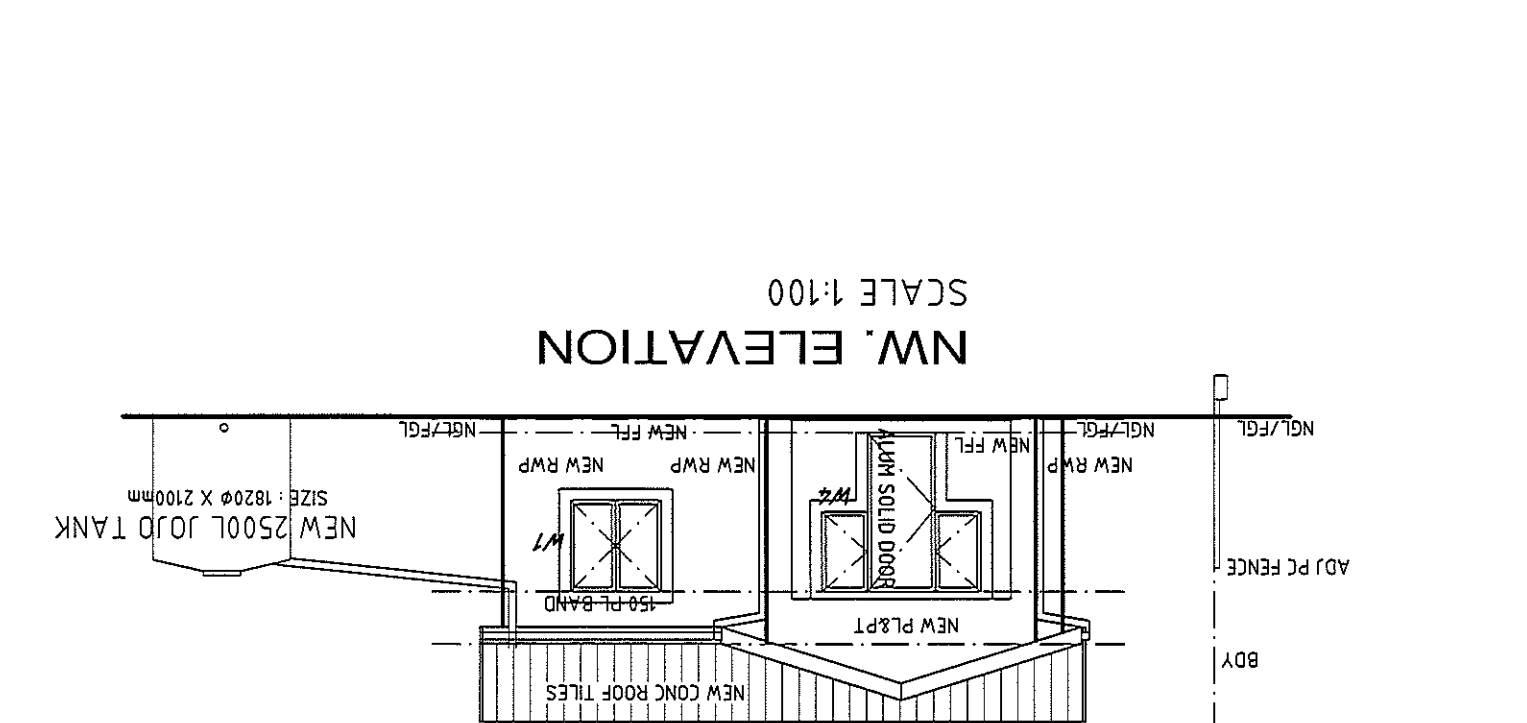
INSULATION USED:
 2mm FIBREGLASS PERFORMED PEP SECTION INSULATION = MIN R VALUE = 100 OF 100

POPULATION: 4PEOPLE/HOUSE
 ENERGY DEMAND = ALLOWED: 5MWh/sqm
 36,167SQM x 5 = 180,835MWh/sqm
 NO. OF LIGHT FITTINGS = 5
 1 x 15w bulbs = 70w x 180,835MWh/sqm
 ENERGY CONSUMPTION ALLOWED: 5MWh/sqm
 52weeks x 7days x 5hours = 1820hrs (yearly light usage consumption)
 5 x 15w bulbs = 75w = 0.070kW
 0.070 x 1820hrs = 127.40kWh = 180.835 acceptable

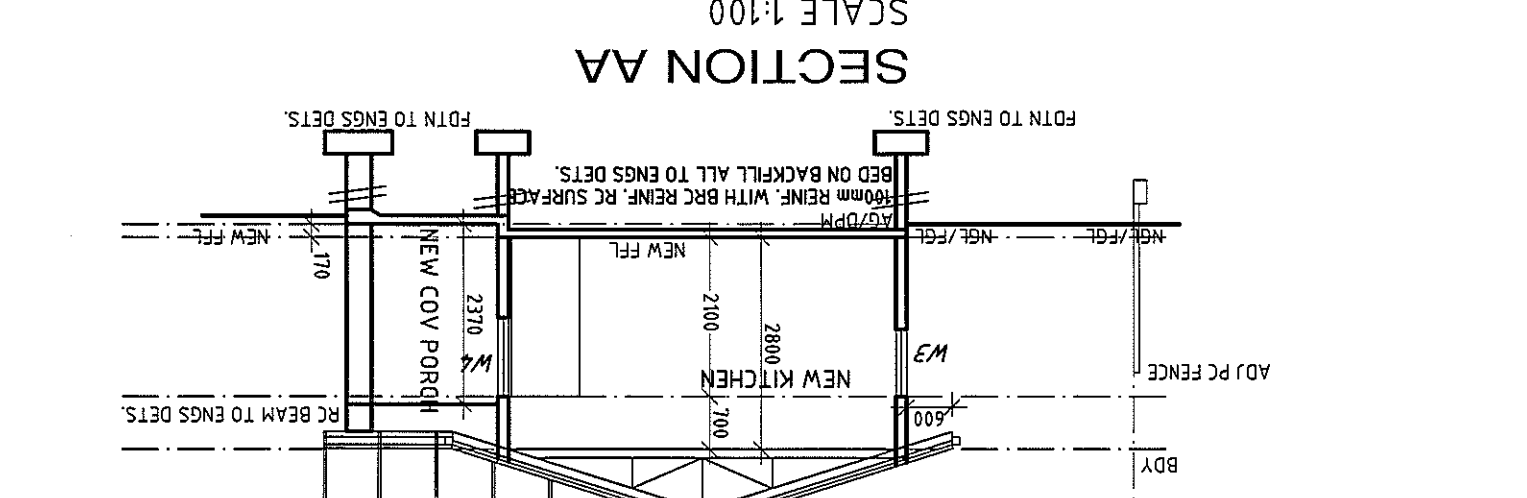
FENESTRATION CALCULATIONS:
 AREA = 36.167 SQM
 15% FENESTRATION IS 5.42505 SQM
 $W1 + W1A + W2 + W3 + W4 = 1.44 + 1.2 + 0.36 + 0.9 + 1.44 = 5.43SQM$
 5.34SQM FENESTRATION IS ACCEPTABLE = 14.76484%



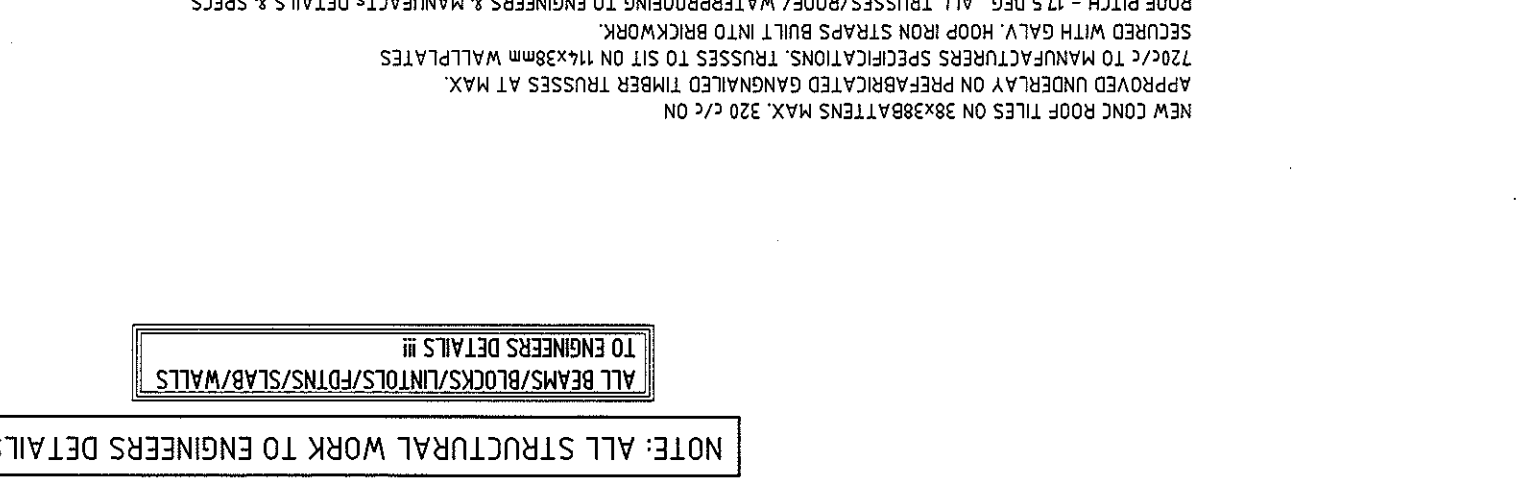
SECTION AA
 SCALE 1:100



SECTION AA
 SCALE 1:100



SECTION AA
 SCALE 1:100



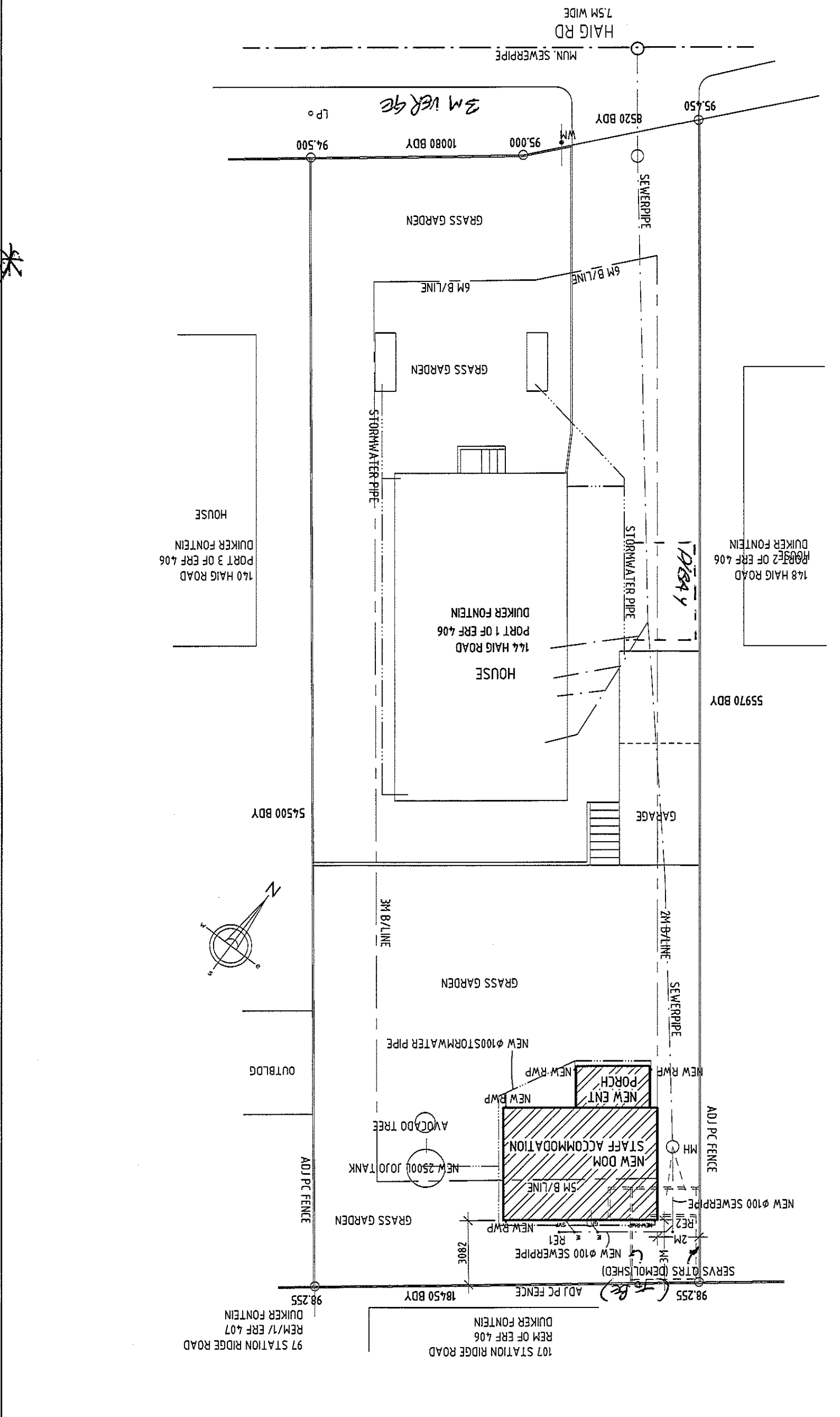
NOTE: ALL STRUCTURAL WORK TO ENGINEERS DETAILS.
 ALL BEAMS/BLOCKS/INTLOS/PDMS/SLAB/WALLS TO ENGINEERS DETAILS !!

Schedule of Areas

NEW TOTAL FAR/COVERAGE	47,000 SQM
NEW CONCRETE WORKS	221,898 SQM
NEW ENT PORCH	1,720 SQM
NEW DOM STAFF ACCOMMODATION	39,960 SQM
SERVS OTRS (DEMOLISH/MSHED)	45,062 SQM
NEW ENT PORCH	19,500 SQM
NEW GARAGES	19,500 SQM
HOUSE	193,818 SQM
FAR/COVERAGE:	404.8 SQM
PERMITTED FAR (10.8)	809.6 SQM
SITE AREA	1012 SQM

SITE PLAN & GROUND FLOOR PLAN

SCALE 1:200



ALUMINIUM WINDOW SCHEDULE - VIEWED EXTERNALLY

M1	max pane size=0.72sqm	GLAZING AND CLEAR FLOAT	144SQM
M2	max pane size=0.55sqm	GLAZING AND CLEAR FLOAT	90SQM
M3	max pane size=0.56sqm	GLAZING AND CLEAR FLOAT	90SQM
M4	max pane size=0.69sqm	GLAZING AND CLEAR FLOAT	125SQM
M5	max pane size=0.72sqm	GLAZING AND CLEAR FLOAT	144SQM

GLAZING TO COMPLY WITH PART N OF SANS 10400

SELWYN NAIDOO
 SACAP ARCH. NO.: T0083
 105 PARKSIDE DRIVE
 DURBAN
 4092
 email: selwynn@live.co.za
 cell: 083 760 7047

DATE: 22NOV2013
DRAWING NO.: 22NOV2013 0001
SCALE: 1:100
SHEET: 1/1

DRAWN BY: SELWYN NAIDOO
DESIGN BY: SELWYN NAIDOO
OWNERS ID. NO.: 08256156221
OWNERS TEL. NO.: 08256156221
OWNERS SIGNATURE:

PROJECT:
 PROPOSED DOM STAFF ACCOMMODATION
 144 HAIG ROAD
 PORT 1 OF ERF 406
 DUKER FOUNTAIN

F. de MATTHEU

SUBMISSION DRAWING
 IN CONSTRUCTION WITH 111
 GEOTECHNICAL REPORT !!