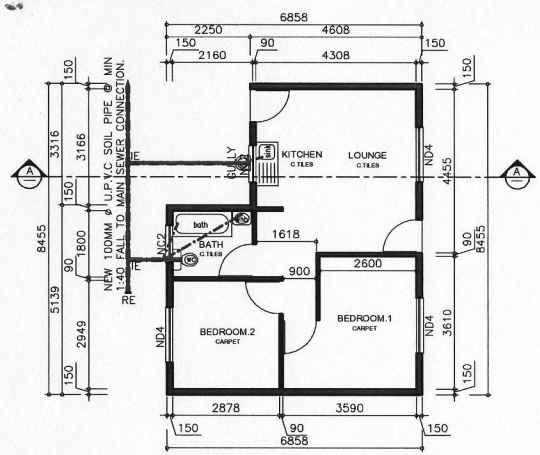
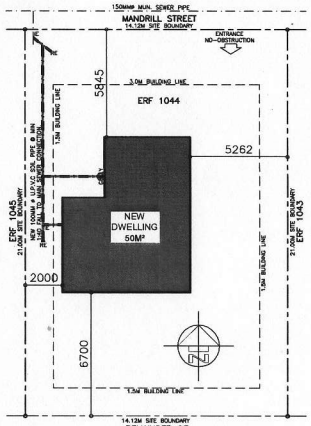
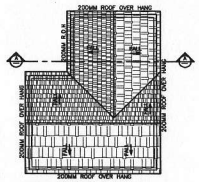


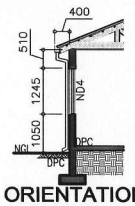
FLOOR PLAN
SCALE 1:100



SITE PLAN
SCALE 1:200



ROOF PLAN
SCALE 1:200



ORIENTATION & SHADING
SCALE 1:100

ELECTRICAL LEGEND
SWITCH AND TWO-WAY SWITCH
SPRINGS
STAIR LIGHT LOW VOLTAGE 300mm OFF FFL
WALL MOUNTED UPWARDER
OUTDOOR ROOF MOUNTED WITH COVER 150 X 150

WINDOW SCHEDULE 2125 V/S LINTOL	1511MM 1245MM ND4	1022MM 845MM NC2
WINDOW NO.	ND4	NC2
WINDOW TYPE	"SUPER STEEL" STANDARD MADE SIDE-HUNG OPEN-OUT TYPE WINDOW.	"SUPER STEEL" STANDARD MADE SIDE-HUNG OPEN-OUT TYPE WINDOW.
CAT. NO.	WEST1 & EAST1.2	WEST1.2
LOCATION	LOUNGE, BEDROOM.1 & 2	KITCHEN & BATHROOM
QUANTITY	3	2
GLAZING	PG 4MM S.A.B.S APPROVED SAFETY CLEAR GLASS.	PG 4MM S.A.B.S APPROVED SAFETY CLEAR GLASS.
WINDOW AREA	1.08 M²	0.51 M²

WINDOW SCHEDULE
SCALE 1:100

HOT WATER SUPPLY

VOLUME OF ANNUAL HOT WATER HEATING REQUIREMENTS:

POPULATION CALCULATION:

BEDROOMS	2 PEOPLE PER BEDROOM	TOTAL
3 X	2 =	6

HOT WATER HEATING CALCULATION:

DEMAND:	STORAGE VOLUME:	HEATER POWER:
80l/PERSON/DAY	150L/UNIT	3kw/UNIT
80lX 6 = 481/DAY	150L/480=3.12 UNITS	6X3=18kw/DAY

THUS: 4260kw/YEAR BUT USE OF SOLAR PANELS =50% SAVING
TOTAL: 2130kw/YEAR HOT WATER HEATING REQUIREMENT
OR: 0.2kWH PER ANNUM.

THEORETICAL ANNUAL ENERGY CONSUMPTION

LIGHTING

ENERGY COMMAND (OCCUPANCY =H4)

MAXIMUM ALLOWED 5W/M
TOTAL FLOOR AREA 50.00 M²
PERMISSIBLE ON THIS HOUSE 289.25W

ENERGY CONSUMPTION (OCCUPANCY =H4)

MAXIMUM ALLOWED 5kWH/SQM PER ANNUM
TOTAL FLOOR AREA 50.00 M²
PERMISSIBLE ON THIS HOUSE 28.93kWH PER ANNUM

EXTERNAL WALL CALCULATION
REQUIRED CR VALUE: 80CR/H

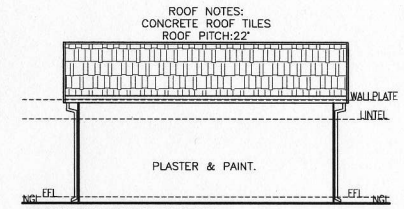
DOUBLE SKIN MASONRY	40 CR/H
PLASTERED AND RENDERING INTERNALLY	20 CR/H
PLASTERED AND RENDERING EXTERNALLY	20 CR/H
TOTAL	80 CR/H

ROOF ASSEMBLY CALCULATION: H.C ROOF
REQUIRED R VALUE: 3.30 SQM.K/W

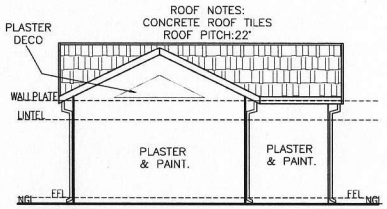
ACTUAL ROOF ASSEMBLY H.C ROOF
4MM RUBBER SYNTHETIC WATERPROOF MEMBRANE 0.05 SQM.K/W
80MM ISOBOARD 3.24 SQM.K/W
TOTAL R VALUE OF ROOF TYPE 1 3.30 SQM.K/W

ROOF ASSEMBLY CALCULATION: TILED ROOF
REQUIRED R VALUE: 0.35 SQM.K/W

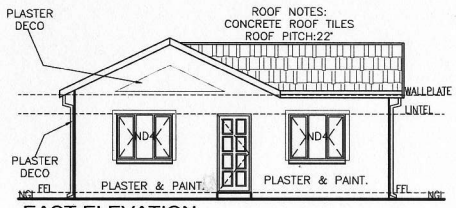
ACTUAL ROOF ASSEMBLY TILED ROOF:
LIGHT GREY COLOUR: 0.45 SQM.K/W
100MM ISOTHERM THERMAL INSULATION 2.20 SQM.K/W
60G SISOLATION INSULATION MEMBRANE 0.05 SQM.K/W
TOTAL R-VALUE OF ROOF TYPE 1 2.25 QSM.K/W



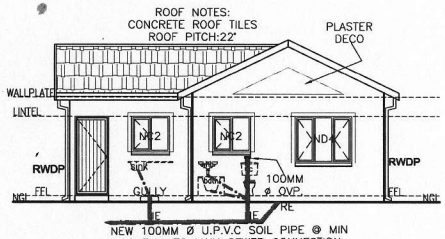
SOUTH ELEVATION
SCALE 1:100



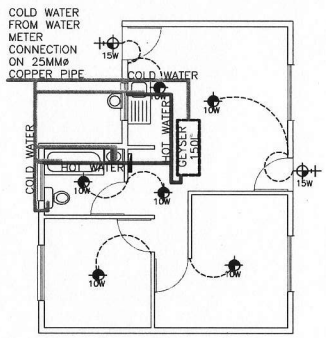
NORTH ELEVATION
SCALE 1:100



EAST ELEVATION
SCALE 1:100



WEST ELEVATION
SCALE 1:100

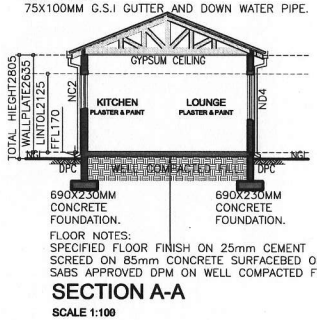


ELECTRICAL & HOT WATER SUPLY
SCALE 1:100

ROOF NOTES:
ROOF PITCH 22° CONCRETE ROOF TILES ON 38X38MM S.A BATTENS ON @ 360MM CCS 114X38MM
S.A PINE TRUSSES @ 760MM CCS ON 114X38MM S.AP PINE WALLPLATE TIED DOWN BY HOOP IRONS.
G.I FLASHING ON ALL ROOF ABULMENTS.
PVC PLASTIC UNDER ROOF.

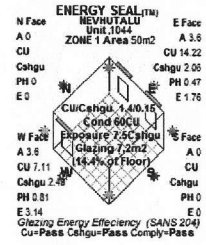
CEILING:
7,5MM GYPSUM CEILING BOARD ON 38X38MM S.A PINE @ 300MM CCS ON UNDERSIDE OF TRUSSES.
56MM Ø COVED CORNICE.

RAIN WATER:
75X100MM G.S.I GUTTER AND DOWN WATER PIPE.



FLOOR NOTES:
SPECIFIED FLOOR FINISH ON 25mm CEMENT SCREED ON 85mm CONCRETE SURFACEBED ON SABS APPROVED DPM ON WELL COMPACTED FILL.

SECTION A-A
SCALE 1:100



ERF 1044 BLUE HILLS - FENESTRATION CALCULATIONS

Description	Facing	Height	Width	CU	Cshgc	P	H	E
NB&NW TOTAL Area=0 CU= Cshgu= PH=0 E=0								
ND4	W	1.2	1.5	7.9	0.65	0.4	1.7	1.12
NC2	W	0.9	1	7.9	0.65	0.4	1.4	1.01
NC2	W	0.9	1	7.9	0.65	0.4	1.4	1.01
W&SW TOTAL Area=3.6 Cu=7.11 Cshgu=2.8521 PH=.8047226968 E=3.14								
S&SE TOTAL Area=0 CU= Cshgu= PH=0 E=0								
ND4	E	1.2	1.5	7.9	0.65	0.4	1.7	0.88
ND4	E	1.2	1.5	7.9	0.65	0.4	1.7	0.88
E&NE TOTAL Area=3.6 Cu=14.22 Cshgu=2.0592 PH=.4705882353 E=1.76								

NEVHUTALU Total
Conductance=56.88 out of Maximum of 60 =94.6% (Pass)
Solar Heat Gain=4.3513 out of Maximum of 7.5 =60.7% (Pass)

SPECIFICATIONS

1. GENERAL
1.1 THIS DRAWING IS NOT TO BE SCALED,USE FIGURED DIMENSIONS ONLY.ALL DIMENSIONS AND HEIGHTS TO BE CHECKED AND VERIFIED BEFORE ANY WORK COMMENCES ON SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. ALL LEVELS ,HEIGHTS OF PLINTHS,DEPTH OF EXCAVATIONS AND NUMBER OF STEPS TO BE FINALLY CHECKED BY CONTRACTOR ON SITE
1.2 THE SITE TO BE TREATED IN ACCORDANCE WITH S.A.B.S. CODE OF PRACTICE NO.0124-1977 WITH 'SHELLDRITE' TERMITEPRUFE SOIL POISONER
1.3 TOP OF FOUNDATIONS TO BE A MINIMUM OF 300MM BELOW NATURAL GROUND LEVEL
1.4 BACKFILL TO FOUNDATIONS
1.5 TOP OF 75MM CONCRETE SURFACE BED TO BE MINIMUM OF 150MM ABOVE FINISHED GROUND LEVEL
1.6 75MM THICK CONCRETE SUFRFACE BED TO BE ON 'GUNPLAS' USB GREEN DAMP PROOF MEMBRANE ON SAND BINDING ON WELL COMPACTED FILL
1.7 'GUNDLE' BRICKGRIP S.A.B.S. EMBOSSED D.P.C 375 MIC. UNDER ALL WALLS, WINDOW CILLS AND AT CHANGES IN FLOOR LEVELS.
1.8 STORMWATER SHALL BE REMOVED FROM DWELLING, YARD AND SITE
1.9 ELECTRICAL INSTALLATION SHALL BE 'HEINEMANN' EARTH LEAKAGE SYSTEM IN DISTRIBUTION BOARD.
1.10ALL BUILDING WORK TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITIES BUILDING BY-LAWS AND REGULATIONS.

2. FOUNDATIONS
2.1 ALL FOUNDATIONS,FOUNDATION WALLS,STRUCTURAL CONCRETE WORK AND SUB SOIL STORMWATER DRAINAGE TO CIVIL ENG'S SPECIFICATIONS
2.2 ALL SOIL COMPACTION TO CIVIL ENG'S SPECIFICATIONS.
2.3 230x600MM CONCRETE FOUNDATIONS FOR 230MM BRICK WALLS.
2.4 300x100MM PAD FOUNDATIONS FOR 460x460MM BRICK COLUMNS.
2.5 ALL FOUNDATIONS TO BE REINFORCED AS REQUIRED BY ENGINEER

3. FLOORS
3.1 25MM CEMENT SCREED TO ALL FLOORS.
3.2 76x19MM SKIRTING AND 19MM QUADRANT TO ALL FLOORS

4. WALLS
4.1 230MM BRICK WALLS WITH GUNDLE BRICKGRIP DPC.
4.2 BRICKFORCE EVERY 6 COURSES. AND EVERY COURSE FOR 4 COURSES OVER OPENINGS
4.3 ALL BRICKWORK MIN. 7 Mpa CLASS II.
4.4 WINDOWS BUILT IN WITH GUNDLE BRICKGRIP DPC.
4.5 ALL PAINTWORK TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS WITH NECESSARY UNDERCOATS
4.6 EXTERNAL-PLASTER AND PAINT.
INTERNAL-PLASTER AND PAINT.

5. GLAZING
GLASS TO COMPLY WITH S.A.B.S BUILDING REGULATION FOR GLAZING

AREA SCHEDULE	SQM
NEW DWELLING	50.00 M²
SITE AREA	297.00 M²
COVERAGE	16.84 %
FAR	0.17

DRAWN BY: KWANGA MAFIFI

SACAP REGISTRATION: D0645

NAME OF PRACTICE: KG's HOUSE PLANS.

NAME OF DEVELOPER:

PROJECT: PROPOSED NEW DWELLING.

DISCRIPTION: SITE PLAN, FLOOR PLAN, ROOF PLAN, ELEVATIONS, SCHEDULE & SECTION.

63 Seventh Avenue
Edenvale 1609
Tel: 011 452 8871
Cell: 071 077 3065.
Email:
kgshouseplans@gmail.com

SCALE: 1:100 | DATE: 07.01.2016 | PAGE: 1/1 | PAPER SIZE A.2