GLAZING SCHEDULE 1800 1200 900 3190 B/B/B/ 4.79msq 4.32msq 0.28msq 2.16msq 1.06msq window/door W01, W02, W03, W20, W22, D01 W04, W06, W10, W12, W24, W05, W11, W25, W27, W29 W13, W14, W17 W15, W16 W26, W28, W30 number W23 frame ALUMINIUM ALUMINIUM ALUMINIUM ALUMINIUM ALUMINIUM ALUMINIUM ALUMINIUM material frame SIDEHUNG AWNING AND FIXED AWNING AND FIXED AWNING SIDEHUNG type TOUGHENED SAFETY GLASS TOUGHENED SAFETY GLASS - MONOLITHIC ANNEALED TOUGHENED SAFETY GLASS MONOLITHIC ANNEALED MONOLITHIC ANNEALED MONOLITHIC ANNEALED glazing material GLASS GLASS GLASS 3 - TOUGHENED SG no. of sides ALL SIDES supported glazing pane 4mm 4mm min, thickness glazing pane 3.0m2 3.0m2 A - 1.5m2 B - 3.0m2 3.0m2 1.5m2 max. area GENERAL NOTES: 2980 յ **900**լ 1800 3751 - All glazing to comply with SANS 10400-N:2010. Float glass to comply with SANS 50572-VEN 572,1 & Toughened & Laminated safety glass to comply with

2.10msq

ALUMINIUM

AWNING

ALL SIDES

3.0m2

FENESTRATION CALCULATIONS:

7.15msq

ALUMINIUM

ALL SIDES

window/door W21

number

material

frame

frame

type

material

no. of sides

supported

min. thickness

max. area

glazing pane 8mm

glazing pane 8.0m2

0.54msq

W3I, W33, W34, W35

OUGHENED SAFETY GLASS TOUGHENED SAFETY GLASS MONOLITHIC ANNEALED

ALUMINIUM

AWNING

ALL SIDES

3.0m2

1.08msq

W32, W36

ALUMINIUM

AWNING

ALL SIDES

1.5m2

ORIBUTATION	WINDOW NO.	WINDOW AREA	
NORTH EAST	W01	4.79msq	
NORTH EAST	W02	4.79msq	
NORTH EAST	W03	4.79msq	
EAST	W04	1.06msq	
EAST	W10	1.06msq	
SOUTH EAST	W05	2.32msq	
SOUTH EAST	W07	I.27msq	
SOUTH EAST	W08	I.27msq	
SOUTH EAST	W09	1.10msq	
SOUTH EAST	D02	2.07msq	
SOUTH EAST	W11	2.32msq	
SOUTH	W06	1.06msq	
SOUTH	W12	1.06msq	
SOUTH WEST	W13	3.78msq	
SOUTH WEST	WI4	3.78msq	
SOUTH WEST	WI5	0.28msq	
SOUTH WEST	WI6	0.28msq	
SOUTH WEST	WD	3.78msq	
OTAL AREA - GROU	ND STOREY WINDOWS	40.86msq	

ORIENTATION	WINDOW NO.	WINDOW AREA
NORTH EAST	W20	4.79msq
NORTH EAST	W22	4.79msq
NORTH EAST	W23	4.79msq
SOUTH EAST	W24	1.06msq
SOUTH EAST	W25	2.32msq
SOUTH EAST	W26	1.06msq
SOUTH EAST	W27	2.32msq
SOUTH EAST	W28	1.06msq
SOUTH EAST	W29	2.32msq
SOUTH EAST	W30	pem60.J
SOUTH WEST	W31	0.54msq
SOUTH WEST	W32	1.08msq
SOUTH WEST	W33	0.54msq
SOUTH WEST	W34	0.54msq
SOUTH WEST	W35	0.54msq
SOUTH WEST	W36	1.08msq
TOTAL AREA - FIRST	STOREY WINDOWS	29.89msq

ZONE	NET FLOOR AREA	TOTAL GLAZED	%AGE OF AREA OP	CONDUCTIVITY VALUE	MAX. SOLAR HEAT GAIN
	- GROUND STOREY	AREA	GLAZING TO FLOOR AREA	OF FRAME - U-value	CO-EFFICIENT (SHGC value)
5H	214.41msq	40.86msq	19.06%	>20% (42.88msq) therefore, ANY SOLUTION	>20% (42.88msq) therefore, ANY SOLUTION

ZONE	NET FLOOR AREA	TOTAL GLAZED	%AGE OF AREA OP	CONDUCTIVITY VALUE	MAX. SOLAR HEAT GAIN
	- FIRST STOREY	AREA	GLAZING TO FLOOR AREA	OF FRAME - U-value	CO-ETTICIBNT (SHGC value)
5H	219.30msq	29.89msq	13.63%	>20% (43.86msq) therefore, ANY SOLUTION	>20% (43.86msq) therefore, ANY SOLUTION

ROOF ASSEMBLY CALCULATIONS

HEAT FLOW

SANS 1263-1.

installation.

9.00msq

ALUMINIUM

AWNING

ALL SIDES

9.2m2

TOUGHENED SAFETY GLASS TOUGHENED SAFETY GLASS

ALL individual panes of safety glazing material to be

Installer to issue a certificate on completion of the

glazing installation & that the glazing material indicated

installation complies with the provisions of SANS 10137.

type of glazing material without prior approval of the

Architectural Professional, as any such changes may

affect the compliance with SANS 10400-N and the

All frameless shower doors in main house to have

VALUE REQD

minimum 10mm toughened safety glss over a maximum

National Building Regulations.

as glazing sizes only.

glazed area of 2.1msq.

DIRECTION OF MIN. TOTAL 'R'

No changes are to be effected to the size, thickness or

All sizes are inclusive of frames and should not be taken

has been installed in the position indicated and such

permanently marked by installer and a certificate to such effect be issued to the owner on completion of

5H	DOWNWARD	2.7msq.K/W
,	F PROPOSED ROOF . MINIUM ROOFSHEET	
OUTDOOR AIR FIL	0.05msq.K/W	
METAL ROOF SHE	0.00msq.K/W	
9.0mm RHINOBOAF	0.06msq.K/W	
105mm x 12kg FIBRE INSULATION	2.63msq.K/W	
INDOOR AIR FILM	0.15msq.K/W	
TOTAL	2.89msq.K/W	

solar panel general notes

SOLAR PANELS ARE TO IDEALLY FACE NORTH AND BE ANGLED AT 10°+LATTITUDE LOCATION OF INSTALLATION

PANELS ARE TO BE FIXED TO MANUFACTURES SPECIFICATION & TO COMPLY WITH SANS 1307

SUPPLIER TO VERIFY THAT THE NUMBER OF PANELS PROVIDED WILL ADEQUATELY COVER THE NEEDS OF THE HOUSEHOLD AS PER SANS 10252-1:2012

INSTALLERS ARE TO ENSURE THAT THE PANELS ARE INSTALLED IN A MANNER THAT WILL ENSURE MAXIMUM EXPOSURE TO THE SUN ESPECIALLY BETWEEN 10.00am AND 14.00pm DAILY. SHADOWS CAST BY TREES AND/OR ADJACENT BUILDINGS DURING THESE PEAK HOURS SHOULD BE AVOIDED.

SOLAR PANELS ARE TO BE MAINTAINED AS PER MANUFACTURE'S SPECIFICATIONS IN ORDER TO ENSURE MAXIMUM OUTPUT.

PART XA - insulation

Install 50mm thick non-combustible, lightweight glasswool geyser blanket around geyser. Seal edges with duct tape.

Apply 20mm 'snap-on-pipe' on incoming cold water pipes and insulate all outgoing hot water pipes to within 1.0m of plumbing fixtures.

provide 100mm thick flexible fibre glass blanket with overlaps of minimum 50mm over a wall member or to be tightly fitted against walls thickness of blanket to be maintained throughout

GEYSER

existing ground storey to re-use existing geyser, provide new geyser for first storey.

provide blanket to existing geysers

client to consider solar power and/or heat pump to heat existing geyser.

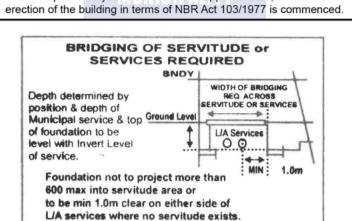
SHEET 2 / 2 ONLINE-COPY ETHEKWINI MUNICIPALITY CENTRAL CE23030034 2

APPLICATION NUMBER

BUILDING APPLICATION APPROVED in terms Section 7 of the National Building Regulations and Building Standards Act No. 103/1977

06 Jun 2023

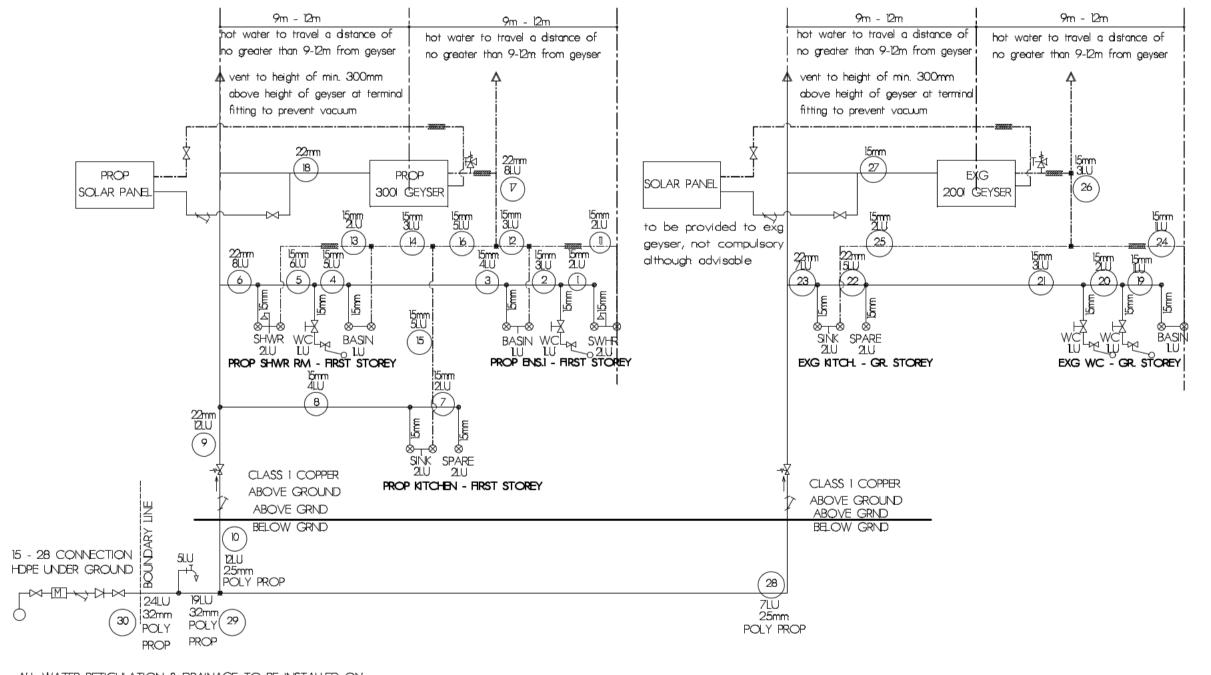
LOCAL AUTHORITY This plan is approved on the basis of the information shown herein. Attention is drawn to the attached documentation & that this approval shall lapse ONE year after the above approval date, unless the



ENCROACHMENTS INTO/OVER SERVITUDES

Any construction work undertaken by the owner which encroaches upon a Municipal Servitude is undertaken entirely at the owner's risk. Any authority of the council thereto shall shall not be waiver of Municipality's right in respect of such servitude.

Providing trenches to locate the exact position of Municipal Services is to be done before any building work is undertaken and is the responsibility of the applicant. NO concrete hardening is permitted over the servitude areas



ALL WATER RETICULATION & DRAINAGE TO BE INSTALLED ON SITE AS PER SANS 10252:2012

SCHEMATIC WATER RETICULATION SYSTEM

HOT WATER DEMAND

OCCUPANCY	OCCUPANCY TYPE	NO. OF BEDRMS	NO. OF PEOPLE	TOTAL HOT WATER DEMAND/CAPITA/DAY	TOTAL HOT WATER DEMAND
H4	MEDIUM TO HIGH RENTAL	3	6	115L PER CAPITA PER DAY	6 x 115L/d = 690L/DAY +20% water loss = 828L/DAY 50% x 1104L/DAY = 414L/DAY
SOLAR HEAT INPUT REGID AREA OF SOLAR COLLECTORS REGID.			STORAGE VOLUME/ CAPITA/DAY @60°	SIZE OF STORAGE TANK	
H = (V x C x de		A = H / S (winter		40L PER CAPITA	6 x 40L/d = 240L/DAY +20% water loss = 288L/DAY
H = (0.414 x 4.18kJ) = 123 608.571 kJ	, ,	A = 123 608.571 k. = 11.14msq	J / 11100kJ		MIN. TANK SIZE = 300L

BRIGHT THOUGHTS (pty) Itd

MALATAB

billing no.

PROPOSED DWELLING UNIT & ALTERATIONS TO EXISTING

OFFICES

319 LILIAN NGOYI ROAD

cadastral description

REM OF ERF 756 OF DURBAN

