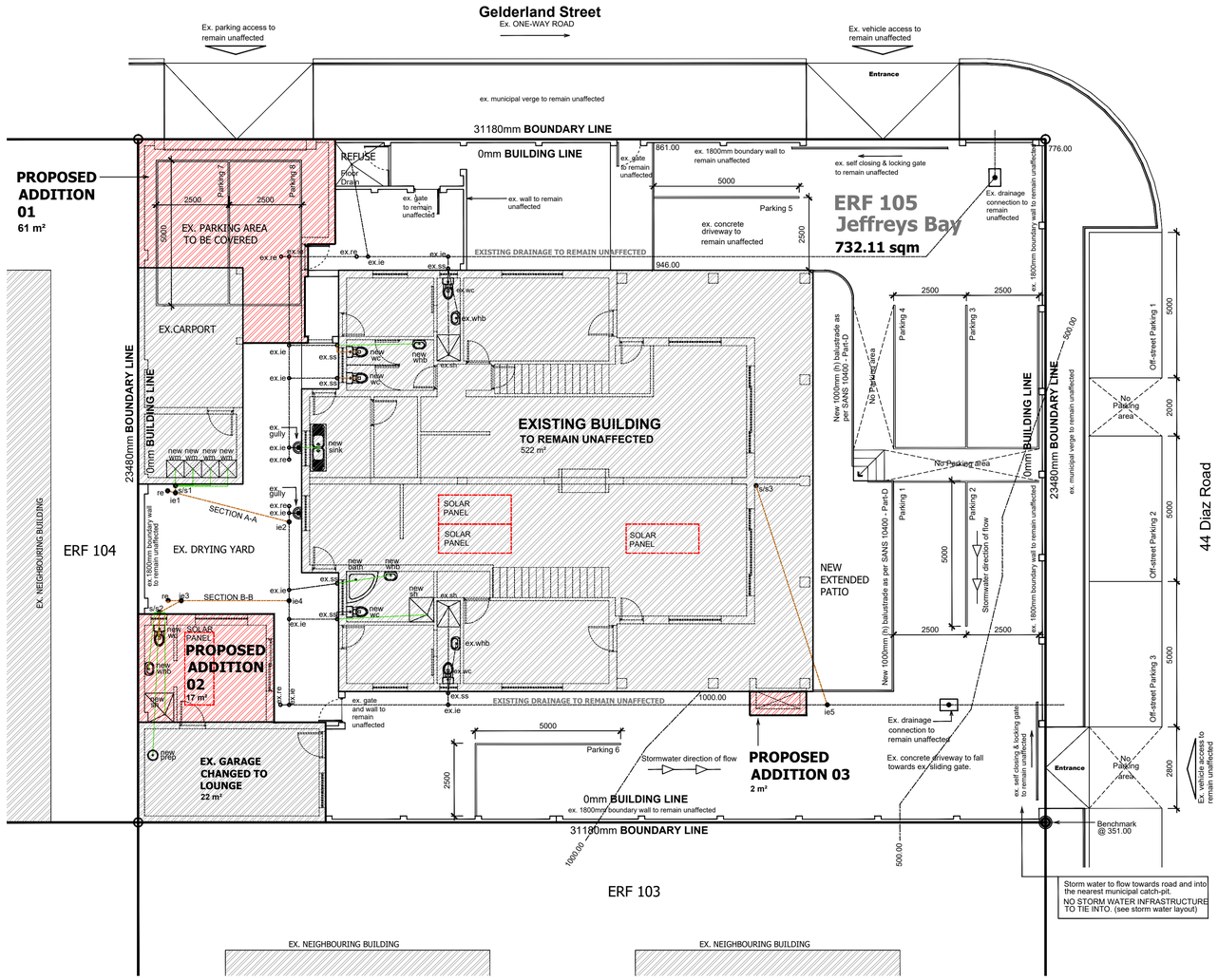
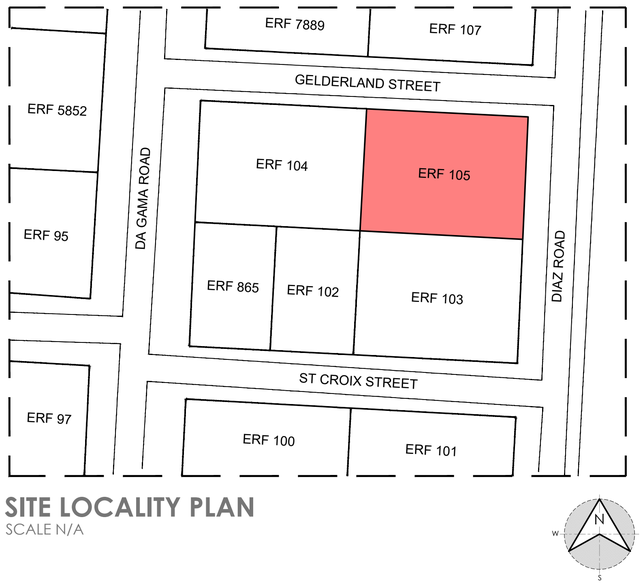


SITE PLAN
SCALE 1:100

STORM WATER LAYOUT



SITE LOCALITY PLAN
SCALE N/A

Fenestration Calculations - SANS 10400 XA - Ed.2										
Tag	Width	Height	A	P-Value	G	O	M-Value	Min. P	U-Value	SHGC
D1/1	1800,00	2125,00	3,83	135,00	500,00	E	0,54	1417,5	5,20	0,49
D2/1	900,00	2125,00	1,91	110,00	500,00	E	0,54	1417,5	5,20	0,49
W1/1	550,00	600,00	0,33	160,00	500,00	N	0,54	594	5,20	0,49
W2/1	1800,00	340,00	0,61	160,00	500,00	N	0,54	453,6	5,20	0,49
W3/1	1200,00	1200,00	1,44	110,00	500,00	E	0,54	918	5,20	0,49
				Summary						
				City/Town	Latitude	Zone	Nett Floor Area		Fenestation Area	Glazing %
				Jeffrey's Bay	34.051	4	39,53		8,12	20,54

Fenestration Calculations - SANS 10400 XA - Ed.2										
Tag	Width	Height	A	P-Value	G	O	M-Value	Min. P	U-Value	SHGC
D5/1	2320,00	2125,00	4,93	135,00	500,00	E	0,54	1417,5	5,20	0,49
Ex. W1	2000,00	1475,00	2,95	135,00	500,00	S	0,54	1066,5	5,20	Any Solution
W6/1	600,00	600,00	0,36	135,00	500,00	E	0,54	594	5,20	0,49
				Summary						
				City/Town	Latitude	Zone	Nett Floor Area		Fenestation Area	Glazing %
				Jeffreys Bay	34.1	4	39,90		8,24	20,65

Fenestration Calculations - SANS 10400 XA - Ed.2										
Tag	Width	Height	A	P-Value	G	O	M-Value	Min. P	U-Value	SHGC
D4/1	1800,00	2125,00	3,83	438,00	500,00	W	0,54	1417,5	Any Solution	Any Solution
W4/1	600,00	600,00	0,36	585,00	500,00	W	0,54	594	Any Solution	Any Solution
				Summary						
				City/Town	Latitude	Zone	Nett Floor Area		Fenestation Area	Glazing %
				Jeffrey's Bay	34.051	4	21,48		4,19	19,51

Fenestration Calculations - SANS 10400 XA - Ed.2										
Tag	Width	Height	A	P-Value	G	O	M-Value	Min. P	U-Value	SHGC
Ex.W1	2400,00	1450,00	3,48	135,00	500,00	S	0,54	1053	Any Solution	Any Solution
W5/1	600,00	1200,00	0,72	135,00	500,00	S	0,54	918	Any Solution	Any Solution
				Summary						
				City/Town	Latitude	Zone	Nett Floor Area		Fenestation Area	Glazing %
				Jeffrey's Bay	34.051	4	25,81		4,20	16,27

MUNICIPAL INFORMATION:

Erf No.:	ERF **105, JEFFREYS BAY**
Existing Erf Area:	732,11 sqm
Existing floor Area:	522 sqm
New floor Area:	54 sqm
Total Floor Area:	576 sqm
Ex. Coverage:	293 sqm - 40.02%
Prop. Coverage:	54 sqm - 7.38%
Total Coverage:	347 sqm - **47%**
NEW GARAGES:	0
NEW BATHROOMS:	3

TOWN PLANNING INFO.

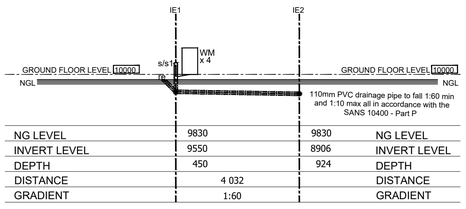
	(Permitted)	(Proposed)
Zoning:	Business 2	Business 2
Height Restriction:	11M	11M
Building Line Front	0mm	0mm
Building Line Sides	0mm	0mm
Building Line Rear	0mm	0mm
Ex. Coverage:	-----	293 sqm - 40%
Prop. Coverage:	-----	54 sqm - 7%
Total Coverage:	732 sqm **-100%**	347 sqm - **47%**
FSI	N/A	0,79
PARKING BAYS	4 Bays	5 Bays

PARKING CALCULATIONS		
0.7 BAYS / 100 sqm for **Other**	(576 sqm x (0.01)) =	4.0 parkings req.
REQUIRED PARKING	=	**4**
PARKING PROVIDED BAY FOR DISABLED	01	parking
NORMAL BAYS	4	parkings
PROPOSED PARKING	=	**5**

APPLICATION OF SANS 10400-XA (Ed.2)

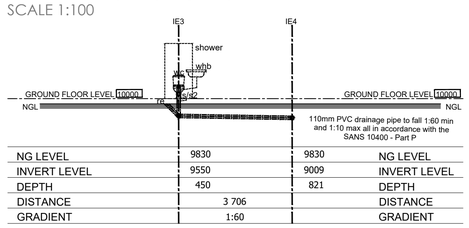
ZONE 4 - CLASSIFICATION H4 / Dwelling Houses

		REQUIREMENTS	ACTUAL			STATUS
1	DESIGN	The orientation is in accordance with the requirements of 5.1	Building facing North/South with longest axis orientated East/West			In order
2	SHADING	The shading is in accordance with the requirements of 5.2	See **Fenestration** calculations			In order
3	FENESTRATIONS & ROOF LIGHTS	The fenestration is in accordance with the requirements of 5.3	See **Fenestration** calculations			In order
4	FLOOR INSULATION for under floor heating	The floors are in accordance with the requirements of 5.4	**Under slab (Heated):**	mm	W/m.K	R-Val.
			Lambdaboard	000	0.024	0.00
		5.4.1. Surface bed (Heated) 5.4.2. Suspended (Exposed) R-value => **1.00**	**Total R-value:**	**Req. =>1.0**	**0.00**	N/A
			Suspended Floor (Exposed):	mm	W/m.K	R-Val.
			Lambdaboard	000	0.024	0.00
			Total R-value:	**Req. =>1.0**	**0.00**	N/A
5	EXTERNAL WALLS Surface density **< 270kg/m²**	The external walls are in accordance with the requirements of 5.5	**External wall:**	mm	W/m.K	R-Val.
			Outer Air-film (1/20)	1000	20	0.05
			10mm plaster	010	0.75	0.01
			110mm Brick	110	0.82	0.13
			Air-spaces	1000	6.8	0.15
			Cavity (Lambdaboard)	040	0.024	1.67
			110mm Brick	110	0.82	0.13
			10mm plaster	10	0.75	0.01
		Zone 4: 50mm Cavity wall: R-value => 1.9	Inner Air-Film (1/9.4)	1000	9.4	0.11
			Total R-value:	**Req. =>1.9**	**2.26**	In order
6	ROOF & CEILING ASSEMBLY	The roof and ceiling assemblies are in accordance with the requirements of 5.6	**5° PITCH ROOF**	mm	W/m.K	R-Val.
			Outer Air-film (1/20)	n/a	n/a	0.05
			Metal Roofing sheeting	0.00	53.00	0.00
			Air-space & Sisalation	n/a	n/a	0.51
			Isover Aerolite insulation	00.0	0.044	0.00
			Isover Aerolite insulation	135	0.04	3.38
			Gypsum Ceiling	6.40	0.17	0.04
		Zone: **4** Direction of Flow: **UP** **5° Metal roof with horizontal ceiling**	Inner Air-Film (1/11.0)	n/a	n/a	0.09
			Total R-value:	**Req. =>3.7**	**4.07**	In order
7	BUILDING SEALING	The building sealing is in accordance with the requirements of 5.7	A foam or rubber compressible strip or a fibrous seal to restrict air leakage shall be fitted to each edge of an external door and other such opening that serves a habitable room. The maximum air leakage for windows and doors shall comply with the requirements of SANS 613.			In order
8	HOT WATER Classification H1 - Hotels	The building hot water is in accordance with the requirements of 6.1	Average annual hot water usage:		140 L/p/d	
			Annual hot water consumption: 140 x 18	=	**2520** L/p/d	In order
		Persons per Bedroom: 2 Number of Bedrooms: 9	Stipulated 24hr hot water @ 60°C min:		62.5 L/p	
		2 Persons per bedroom x 9 Number of bedrooms 18 Occupancy	Minimum solar hot water storage: ((62.5)*1.5) x 18 = **1688** L/p = 1688 L/p ÷ 9 Rooms = **188** L Per Room			In order
	PIPE INSULATION (hot water pipe)	Internal pipe diameter ≤ 80mm: Minimum R-value of 1.00	Closed cell elastomeric thermal insulation	mm	W/m.K	R-Val.
				38	0.036	1.06
			Total R-value:	**Req. 1.0**	**1.06**	In order
9	LIGHTING Classification H1	The building lighting is in accordance with the requirements of 6.2 Maximum Lighting demand on new areas affected **MAXIMUM ENERGY DEMAND** Constant = 4 W/m² 576 m² x 4 W/m² = 2304 W (MAX.)	**INTERIOR LIGHTS:**	Qty.	Watts	Lm/W
			LED DN Lights:	000	10	80
			LED UP/DN Lights:	000	20	160
			LED Wall Lights:	000	20	100
			Compact Fluo. light:	035	20	58
			Fluorescent light:	000	36	79
			SUB TOTAL:		700	40600
			EXTERIOR LIGHTS:	Qty.	Watts	Lm/W
			LED DN Lights:	000	010	80
			LED UP/DN Lights:	000	020	160
			LED Wall Lights:	005	020	100
			Compact Fluo. light:	000	020	56
			Fluorescent light:	002	036	79
			SUB TOTAL:		172	15688
			TOTAL (watts & Lumens):		872	56288
			ENERGY DEMAND: 872W / 576m² **1.51W/m² =< 4W/m²**			In order



NG LEVEL	9830	9830	NG LEVEL
INVERT LEVEL	9550	8906	INVERT LEVEL
DEPTH	450	924	DEPTH
DISTANCE	4 032		DISTANCE
GRADIENT	1:60		GRADIENT

DRAINAGE SECTION A-A
SCALE 1:100



NG LEVEL	9830	9830	NG LEVEL
INVERT LEVEL	9550	9009	INVERT LEVEL
DEPTH	450	821	DEPTH
DISTANCE	3 706		DISTANCE
GRADIENT	1:60		GRADIENT

DRAINAGE SECTION B-B
SCALE 1:100

REVISIONS:

REV01	Drainage updated colours updated on site plan	2024-06-18

GENERAL NOTES:

All dimensions to be checked on site before construction commences. All dimensions are given in millimeters, unless otherwise specified. Contractors to adhere to all local authority's regulations and requirements. Contractors to be a suitably qualified and registered participant in the construction industry as required by Construction Regulation 2014. Drawings to be read in conjunction with the clients OHS (Occupational Health and Safety) file. All work to be done in accordance with the National Building Regulations SANS 10400. Before this drawing is priced it is the contractor's responsibility to ensure he is familiar with the site. All trade names quoted may only be substituted by similar, subject to architect's approval. All materials to be installed in strict accordance with manufacturer's specifications. All conduit work to be SABS approved quality. All light fittings is to be fitted to comply with the relevant code of practice as specified in SANS 10400: Part O. All new work to be made good with existing. This drawing is not to be scaled unless printed by H. Gouws renders. All existing dimensions not to be scaled from drawings but to be checked on site. Any discrepancies shall be reported to the designer immediately and clarified by the architect prior to commencement of work. Top of foundations to be a minimum of 150mm below finished ground level. Minimum 100mm thick concrete surface bed as per Engineers drawings to be on 250 mic. "gunplas" uba green dpm on 50mm sand blinding layer and on well compacted fill in layers not more than 150mm. SABS Approved "gundle" 375 mic. dpc under all walls, window cills and at changes in floor level. These architectural drawings to be read in conjunction with engineers and consultants drawings, where applicable. All building work to be carried out in accordance with the national building regulations. The contractor is responsible for all site visits by local inspectors and pay all fees in connection therewith. All drainage work to be carried out in accordance with the national building regulations. All roof measurements to be taken on site by roof specialist prior to roof construction. All tile layouts to be confirmed with architect prior to commencing. Levels shown are relative to a benchmark at 100.00 msl of new floor level. Msl is not the actual level but a benchmark to base other heights of the building shown on the drawings. Contractor to keep a full set of latest issued drawings on site. Contractor is responsible for the correct setting out of the building on site with reference to the building line and boundaries. Contractor to take responsibility for all health and safety measures on site.

DRAWING TITLE:

MUNICIPAL SUBMISSION

PROJECT TITLE:

ADDITIONS AND ALTERATIONS ON **ERF 105, JEFFREYS BAY** , PORT ELIZABETH FOR **Mr Daniel Jacobus Dicks**

1 Jul 24

CLIENT SIGNATURE

BLACKHOUND ARCHITECTURE & RENDERING

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https://blackhoundenterprises.com
Unit 10, The Network, 19 Cactus Rd
Fairview, Port Elizabeth, 6070

1 Jul 24

PROFESSIONAL SIGNATURE

MUNICIPAL INFORMATION:

ERF NO:	**105, JEFFREYS BAY**
ERF AREA:	732,11 sqm
EXISTING AREA:	522 sqm
NEW AREA:	**54 sqm**
TOTAL AREA:	576 sqm
EX. COVERAGE:	293 sqm - 40%
NEW COVERAGE:	**54 sqm - 7%**
TOTAL COVERAGE:	347 sqm - 47%
NEW GARAGES:	0
NEW BATHROOMS:	3
POOL:	NO
BOUNDARY WALLS:	0 M
AGE OF BUILDING:	<60

PROFESSIONAL SENIOR ARCHITECTURAL TECHNOLOGIST
JOHANNES STEPHANUS GOUWS
South Africa Council for the Architectural Profession
12:46 pm (Africa/Johannesburg) on 01 Jul 2024

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DRAWN BY: DMP

PRINT DATE: 01 Jul 2024

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REVISION NO.: 01

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