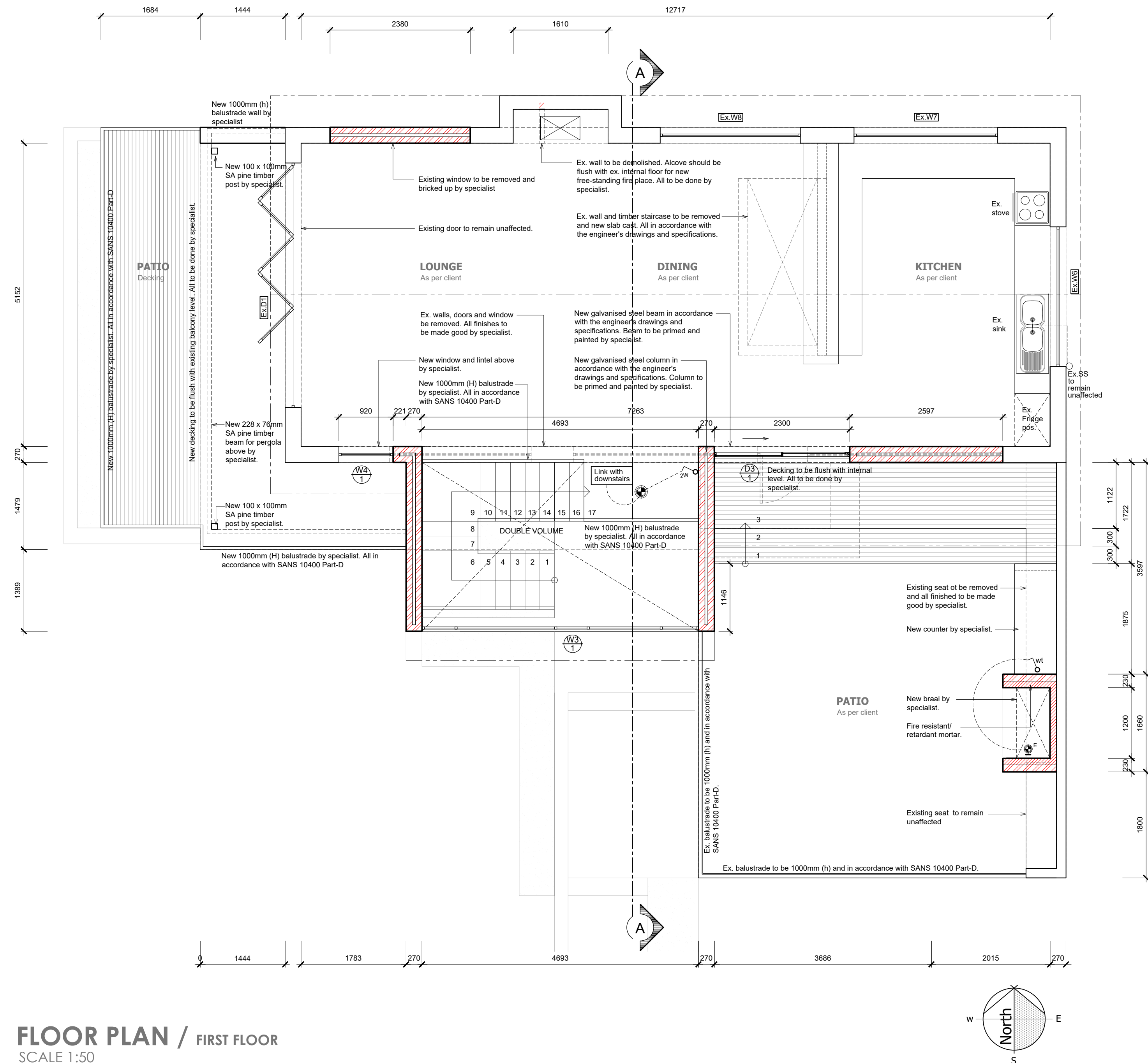


ELECTRICAL LEGEND						WATER RETICULATION LEGEND					
	LED Down lighter as per client specification		Periscope plug as per specification.		50 Watt External LED Wall mounted spotlight		Main distribution board		proposed cold water source point, plumber to tap into existing cold water pipes at this point		external mounted heat pump as per specialist
	Single wall mounted light switch to be mounted at 1300mm above u/f		Garage door ceiling mounted motor		13 Watt Internal compact Fluorescent Up Lighter (wall mounted) as per client		Sub distribution board		municipal water connection and stop cock		solar geyser on roof with geyser in the ceiling space as per specialist.
	Double wall mounted light switch to be mounted at 1300mm above u/f		TV point aerial		Starlings (wall mounted) as per client				garden tap position		shower head
	Triple wall mounted light switch to be mounted at 1300mm above u/f		Shavers plug		LED Strip Lighting		Uninterruptible power supply		Pressure release valve and non-return valve		
	2-way wall mounted light switch to be mounted at 1300mm above u/f		Tallom point		Pool light as per client		Sieve to be installed for future Fibre optic installations, sieve to be as per specialist.		proposed cold water reticulation		
	Watertight wall mounted light switch to be mounted at 1300mm above u/f		Network point		Foot light		Single external water tight light switch to be mounted at 650mm above u/f.		proposed hot water reticulation		
	Dimmer wall mounted light switch to be mounted at 1300mm above u/f		Stove isolator		Electrical fence control box.				proposed cold water pipe up		95mm flexible polyester blanket insulation to all new geyser to achieve R-value of 2.00
	Double wall mounted plug, top of socket to be 1250mm above u/f		Gate Skirting		Gate Control Unit				proposed cold water pipe down		50mm flexible polyester insulation to all new hot water pipes to achieve R-value of 1
	Double wall mounted plug, top of socket to be 300mm above u/f		(2 x 18 WJ) 1500 Long 2 tube fluorescent armature with prismatic diffuser suspended from ceiling.		Pre-paid Electricity meter				proposed hot water pipe down		
	Double wall mounted watertight plug		5 Watt LED Down lighter as per specification		Daylight sensor				proposed cold water stopcock		
	Extractor connection plug @ 2100mm		20 Watt Compacted Fluorescent pendant light as per specification		Intercom				proposed hot water stopcock		
	Blank conduiting boxes		(5 Watt x 2) Internal LED Wall mounted light		Intercom system.				proposed cold tap		
	Periscope plug as per specification.		(10 Watt x 2) External LED Wall mounted light		Alarm				proposed hot tap		

MUNICIPAL INFORMATION		
TOWN PLANNING	RES1	RES1
	Current	Submitted
ERF NO:	ERF 344	ERF 344
ZONING	RES1	RES1
HEIGHT RESTRICTION	Double Storey	Double Storey
BUILDING LINE FRONT	4000mm / 5000mm	4000mm / 5000mm
BUILDING LINE SIDES	1500mm / 2000mm	1500mm / 2000mm
BUILDING LINE REAR	3000mm	3000mm
EXISTING ERF AREA:	874 sqm	874 sqm
EXISTING AREA:	282 sqm	282 sqm
NEW AREA:	18 sqm	18 sqm
TOTAL AREA:	300 sqm	300 sqm
EXISTING COVERAGE:	140 sqm - 16%	140 sqm - 16%
NEW COVERAGE:	18 sqm - 2%	18 sqm - 2%
TOTAL COVERAGE:	158 sqm - 18% (70% Max)	158 sqm - 18%
NEW GARAGES:	0	0
NEW BATHROOMS:	0	0
PARKING BAYS	1 Bays	1 Bays
FAS	TSC	0.34

TOWN PLANNING		
ERF 344, BLUE HORIZON BAY , PORT ELIZABETH		
ERF AREA 874 sqm		874 sqm
EXISTING COVERAGE @ 140 sqm	16.0%	140 sqm - 16%
PROPOSED NEW COVERAGE		18 sqm - 2%
TOTAL COVERAGE		158 sqm - 18%
FSI EXISTING - 282sqm / 874sqm		32%
PROPOSED NEW TOTAL FSI - 300sqm / 874sqm		0.34
FSI PERMITTED - n/a		N/A
PARKING REQUIRED		
Residential dwelling:		1 Parking

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 5.4.1. Surface bed (Heated) 5.4.2. Suspended (Exposed) R-value = 1.00	Under slab (Heated): <table><tr><td>mm</td><td>W/m.K</td><td>R-Val.</td></tr><tr><td>Lambda board</td><td>000</td><td>0.024</td><td>0.00</td></tr><tr><td colspan="3">Total R-value: Req. =1.0</td></tr><tr><td colspan="3">Suspended Floor (Exposed):</td></tr><tr><td>mm</td><td>W/m.K</td><td>R-Val.</td></tr><tr><td>Isover Aerolite insulation</td><td>000</td><td>0.044</td><td>0.00</td></tr><tr><td colspan="3">Total R-value: Req. =1.0</td></tr></table>						mm	W/m.K	R-Val.	Lambda board	000	0.024	0.00	Total R-value: Req. =1.0			Suspended Floor (Exposed):			mm	W/m.K	R-Val.	Isover Aerolite insulation	000	0.044	0.00	Total R-value: Req. =1.0			N/A															
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Total R-value: Req. =1.0																																															
5	EXTERNAL WALLS Surface density < 270kg/m²	The external walls are in accordance with the requirements of 5.5 Zone 4: 50mm Cavity wall: R-value = 1.9	External wall: <table><tr><td>mm</td><td>W/m.K</td><td>R-Val.</td></tr><tr><td>Outer Air-film (1/20)</td><td>1000</td><td>20</td><td>0.05</td></tr><tr><td>10mm plaster</td><td>010</td><td>0.75</td><td>0.01</td></tr><tr><td>110mm Brick</td><td>110</td><td>0.82</td><td>0.13</td></tr><tr><td>Air-spaces</td><td>1000</td><td>6.8</td><td>0.15</td></tr><tr><td>Cavity (Lambda board)</td><td>040</td><td>0.024</td><td>1.67</td></tr><tr><td>110mm Brick</td><td>110</td><td>0.82</td><td>0.13</td></tr><tr><td>10mm plaster</td><td>10</td><td>0.75</td><td>0.01</td></tr><tr><td>Inner Air-Film (1/9.4)</td><td>1000</td><td>9.4</td><td>0.11</td></tr><tr><td colspan="3">Total R-value: Req. =1.9</td></tr></table>						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 (Lambda board)	040	0.024	1.67	110mm Brick	110	0.82	0.13	10mm plaster	10	0.75	0.01	Inner Air-Film (1/9.4)	1000	9.4	0.11	Total R-value: Req. =1.9			In order
mm	W/m.K	R-Val.																																													
Outer Air-film (1/20)	1000	20	0.05																																												
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Total R-value: Req. =1.9																																															
6	ROOF & CEILING ASSEMBLY	The roof and ceiling assemblies are in accordance with the requirements of 5.6 Zone: Direction of Flow: UP 20' Metal roof with horizontal ceiling	20' PITCH ROOF <table><tr><td>mm</td><td>W/m.K</td><td>R-Val.</td></tr><tr><td>Outer Air-film (1/20)</td><td>n/a</td><td>n/a</td><td>0.05</td></tr><tr><td>Metal Roofing sheathing</td><td>0.00</td><td>53.00</td><td>0.00</td></tr><tr><td>Air-space & Slatation</td><td>n/a</td><td>n/a</td><td>0.51</td></tr><tr><td>Isover Aerolite insulation</td><td>0.00</td><td>0.044</td><td>0.00</td></tr><tr><td>Isover Aerolite insulation</td><td>135</td><td>0.04</td><td>3.38</td></tr><tr><td>Gypsum Ceiling</td><td>6.40</td><td>0.17</td><td>0.04</td></tr><tr><td>Inner Air-Film (1/11.0)</td><td>n/a</td><td>n/a</td><td>0.09</td></tr><tr><td colspan="3">Total R-value: Req. =3.7</td></tr></table>						mm	W/m.K	R-Val.	Outer Air-film (1/20)	n/a	n/a	0.05	Metal Roofing sheathing	0.00	53.00	0.00	Air-space & Slatation	n/a	n/a	0.51	Isover Aerolite insulation	0.00	0.044	0.00	Isover Aerolite insulation	135	0.04	3.38	Gypsum Ceiling	6.40	0.17	0.04	Inner Air-Film (1/11.0)	n/a	n/a	0.09	Total R-value: Req. =3.7			In order				
mm	W/m.K	R-Val.																																													
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Total R-value: Req. =3.7																																															
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 H4	The building hot water is in accordance with the requirements of 6.1	Hot water calculations: Not adding additional bedrooms. We are using the current. <table><tr><td>mm</td><td>W/m.K</td><td>R-Val.</td></tr><tr><td>Closed cell elastomeric thermal insulation</td><td>38</td><td>0.036</td><td>1.06</td></tr><tr><td colspan="3">Total R-value: Req. 1.0</td></tr></table>						mm	W/m.K	R-Val.	Closed cell elastomeric thermal insulation	38	0.036	1.06	Total R-value: Req. 1.0			N/A																												
mm	W/m.K	R-Val.																																													
Closed cell elastomeric thermal insulation	38	0.036	1.06																																												
Total R-value: Req. 1.0																																															
9	LIGHTING Classification H4	The building lighting is in accordance with the requirements of 6.2	LED & CFL deemed to comply with Table 12 for H3 & H4						In order																																						

[illegible][illegible]

FLOOR PLAN / FIRST FLOOR
SCALE 1:50

Tag	Width	Height	A	P-Value	G	O	M-Value	Min. P	U-Value	SHGC
D1/1	4693.00	2125.00	9.97	55.00	500.00	N	0.54	1417.5	3.80	0.40
D2/1	2761.00	2125.00	5.87	1819.00	500.00	E	0.54	1417.5	3.80	0.40
D3/1	2300.00	2125.00	4.89	1553.88	500.00	N	0.54	1417.5	3.80	0.40
Ex. D1	4156.00	2125.00	8.83	385.00	500.00	E	0.54	1417.5	3.80	0.40
Ex. W1	2377.00	1487.00	3.53	135.00	500.00	S	0.54	1072.98	3.80	Any Solution
Ex. W2	2384.00	1487.00	3.55	135.00	500.00	S	0.54	1072.98	3.80	Any Solution
Ex. W3	2381.00	1487.00	3.54	135.00	500.00	S	0.54	1072.98	3.80	Any Solution
Ex. W4	2379.00	1791.00	4.26	150.00	500.00	W	0.54	1237.14	3.80	0.40
Ex. W5	859.00	586.00	0.50	150.00	500.00	W	0.54	566.44	3.80	0.40
Ex. W6	2372.00	900.00	2.13	385.00	500.00	W	0.54	756	3.80	0.40
Ex. W7	2436.00	900.00	2.20	670.00	500.00	S	0.54	756	3.80	Any Solution
Ex. W8	2379.00	900.00	2.14	670.00	500.00	S	0.54	756	3.80	Any Solution
W1/1	900.00	2484.00	2.24	135.00	500.00	N	0.54	1611.36	3.80	0.40
W2/1	600.00	2484.00	1.49	1819.00	500.00	E	0.54	1611.36	3.80	0.40
W3/1	4693.00	1796.00	8.43	555.00	311.00	N	0.54	1137.78	3.80	0.40
W4/1	920.00	1785.00	1.64	670.00	500.00	N	0.54	1233.9	3.80	0.40
Summary										
City/Town	Latitude	Zone	Net Floor Area	Fenestration Area		Glazing %				
Port Elizabeth	33.962	4	203.00	65.21		32.12				

PROJECT TITLE:	
ADDITIONS & ALTERATIONS ON ERF 344, BLUE HORIZON BAY , PORT ELIZABETH FOR Mr & Mrs Wilson	
16 Aug 23	
CLIENT SIGNATURE	
	
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16 Aug 23	
PROFESSIONAL SIGNATURE	

RF# NO:	344, Blue Horizon Bay
RF AREA:	874 sqm
EXISTING AREA:	282 sqm
NEW AREA:	18 sqm
TOTAL AREA:	300 sqm
% COVERAGE:	140 sqm - 16%
NEW COVERAGE:	18 sqm - 2%
TOTAL COVERAGE:	158 sqm - 18%
NEW GARAGES:	0
NEW BATHROOMS:	0
POOL:	NO
BOUNDARY WALLS:	18 M
AGE OF BUILDING:	28



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2023_House Wilson
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20230713_House Wilson_MS10
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