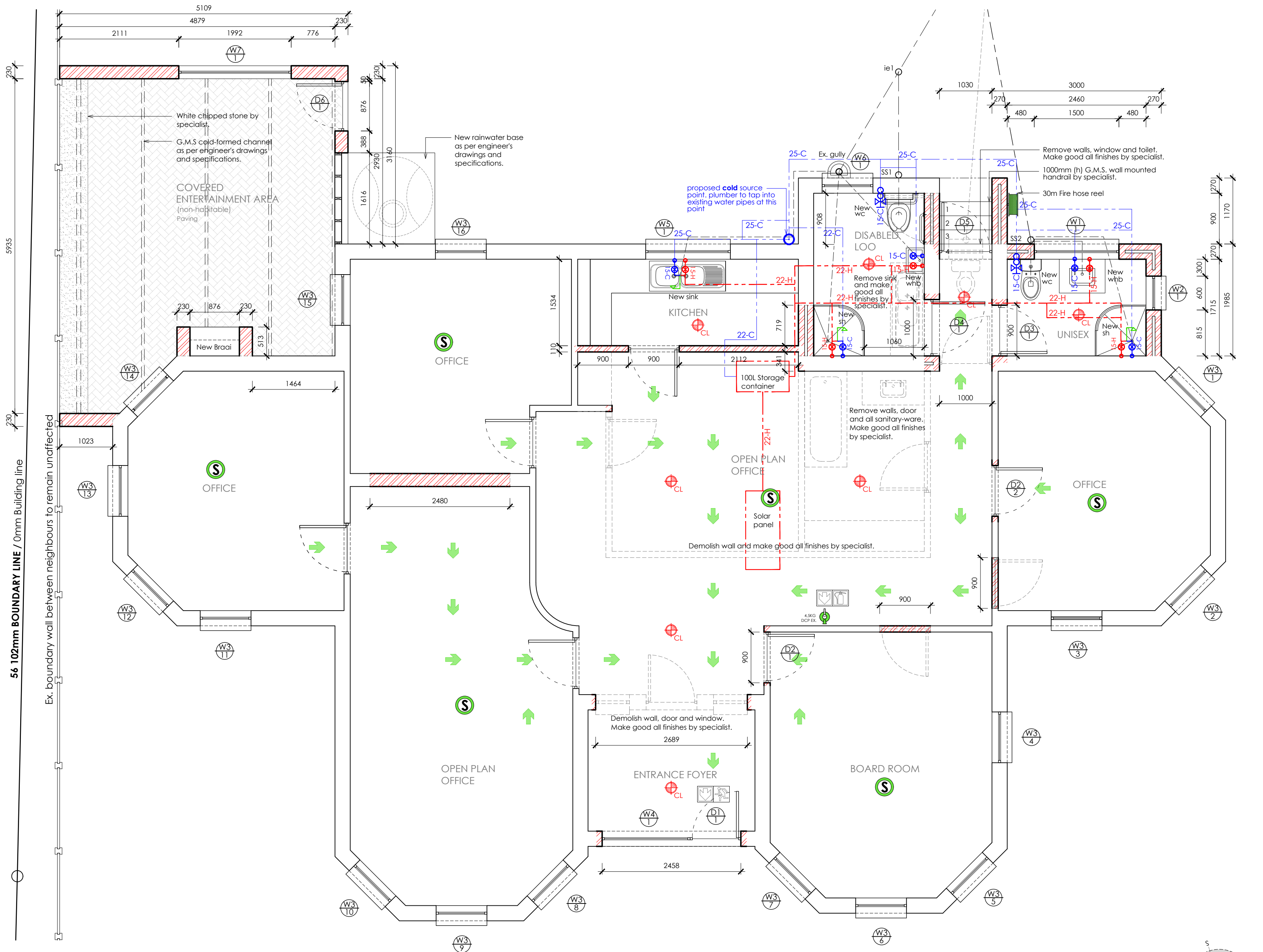


## ELECTRICAL LEGEND

|  |                                                                         |  |                                                                             |  |                                        |  |                                                                                              |
|--|-------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|--|----------------------------------------|--|----------------------------------------------------------------------------------------------|
|  | Single wall mounted light switch to be mounted at 1300mm above ufl.     |  | TV point aerial                                                             |  | External LED wall mounted spotlight    |  | Hair dryer waterproof plug                                                                   |
|  | Double wall mounted light switch to be mounted at 1300mm above ufl.     |  | Shavers plug                                                                |  | Internal CFL wall mounted - Up Lighter |  | Main distribution board                                                                      |
|  | Triple wall mounted light switch to be mounted at 1300mm above ufl.     |  | Tekon point                                                                 |  | Starlights (wall mounted)              |  | Sub distribution board                                                                       |
|  | 2-way wall mounted light switch to be mounted at 1300mm above ufl.      |  | Network point                                                               |  | LED Strip Lighting                     |  | Uninterruptible power supply                                                                 |
|  | Waterlight wall mounted light switch to be mounted at 1300mm above ufl. |  | Stove isolator                                                              |  | Pool light as per client               |  | Sleeve to be installed for future Fibre optic installations, sleeve to be as per specialist. |
|  | Drimmer wall mounted light switch to be mounted at 1300mm above ufl.    |  | Power Starting                                                              |  | Fool light                             |  |                                                                                              |
|  | Double wall mounted plug, top of socket to be 1250mm above ufl.         |  | 2 tube fluorescent armature with prismatic diffuser suspended from ceiling. |  | Electrical fence control box           |  |                                                                                              |
|  | Double wall mounted plug, top of socket to be 300mm above ufl.          |  | LED Down lighter as per specification                                       |  | Gate Control Unit                      |  |                                                                                              |
|  | Double wall mounted waterlight plug                                     |  | Ceiling light [Compacted Fluorescent]                                       |  | Pre-paid Electricity meter             |  |                                                                                              |
|  | Extractor connection plug @ 2100mm                                      |  | Hanging pendant [Compacted Fluorescent]                                     |  | Daylight sensor                        |  |                                                                                              |
|  | Blank consulting boxes                                                  |  | 30 Watt Fan-light ceiling mounted                                           |  | Intercom                               |  |                                                                                              |
|  | Periscope plug as per specification.                                    |  | Internal LED Wall mounted light                                             |  | Intercom system.                       |  |                                                                                              |
|  | Garage door ceiling mounted motor                                       |  | External LED Wall mounted light                                             |  | Alarm                                  |  |                                                                                              |



# FLOOR PLAN / MAIN OFFICE BUILDING

SCALE 1:50

**MUNICIPAL INFORMATION:**

| TOWN PLANNING              | BUS1                 | BUS1                 |
|----------------------------|----------------------|----------------------|
|                            | Required             | Provided             |
| ERF NO:                    | ERF 100, Newton Park | ERF 100, Newton Park |
| ZONING                     | Bus1                 | Bus1                 |
| HEIGHT RESTRICTION         | 8M                   | 8M                   |
| BUILDING LINE FRONT        | 0mm                  | 0mm                  |
| BUILDING LINE SIDES        | 0mm                  | 0mm                  |
| BUILDING LINE REAR         | 0mm                  | 0mm                  |
| EXISTING ERF AREA:         | 1673 sqgm            | 1673 sqgm            |
| EXISTING AREA:             | 262 sqm              | 262 sqm              |
| NEW AREA:                  | 114 sqm              | 114 sqm              |
| TOTAL AREA:                | 376 sqm              | 376 sqm              |
| EXISTING COVERAGE:         | 262 sqm - 16%        | 262 sqm - 16%        |
| NEW COVERAGE:              | 114 sqm - 7%         | 114 sqm - 7%         |
| TOTAL COVERAGE:            | 376 sqm - 22%        | 376 sqm - 22%        |
| NEW GARAGES:               | 0                    | 0                    |
| NEW BATHROOMS:             | 4                    | 4                    |
| PARKING BAYS:              |                      |                      |
| 4 BAYS /100sqm for Offices | 6 Bays (144,1m)      | 6 Bays               |
| FSI                        | TBC                  | 0.22                 |

## TOWN PLANNING INFO.

| ERF 100, NEWTON PARK                      |               |
|-------------------------------------------|---------------|
| ERF AREA 1673 sqm                         | 1673 sqm      |
| EXISTING COVERAGE @ 262 sqm 15.7%         | 262 sqm - 16% |
| PROPOSED NEW COVERAGE                     | 114 sqm - 7%  |
| TOTAL COVERAGE                            | 376 sqm - 22% |
| FSI EXISTING - 262sqm / 1673sqm           | 15.7%         |
| PROPOSED NEW TOTAL FSI - 376sqm / 1673sqm | 0.22          |
| FSI PERMITTED - n/a                       | N/A           |

## FIRE PLAN LEGEND

|                                            |                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------------------|
| Smoke Detectors                            |  |
| Manual Control Panel                       |  |
| Signage for direction of fire escape route |  |
| Signage for fire extinguisher              |  |
| Fire extinguisher                          |  |
| Fire blanket                               |  |
| Fire escape route                          |  |
| 30m Fire hose reel                         |  |
| Fire hydrant                               |  |

## WATER RETICULATION LEGEND

|                                                                                               |                                                                                       |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Proposed cold water source point: plumber to tap into existing cold water pipes at this point |    |
| Municipal water connection and stop cock                                                      |    |
| Garden tap position                                                                           |    |
| Proposed cold water reticulation                                                              |    |
| Proposed hot water reticulation                                                               |   |
| Proposed cold water pipe up                                                                   |  |
| Proposed cold water pipe down                                                                 |  |
| Proposed hot water pipe down                                                                  |  |
| Proposed cold water stopcock                                                                  |  |
| Proposed hot water stopcock                                                                   |  |
| Proposed cold tap                                                                             |  |
| Proposed hot tap                                                                              |  |
| Proposed shower head                                                                          |  |

## FENESTRATION CALCULATIONS - MAIN OFFICE BUILDING

| Tag   | Width   | Height  | A    | P-Value | G      | O  | M-Value | Min. P | U-Value      | SHGC         |
|-------|---------|---------|------|---------|--------|----|---------|--------|--------------|--------------|
| D1/1  | 900.00  | 2125.00 | 1.91 | 715.00  | 500.00 | N  | 0.54    | 1417.5 | Any Solution | Any Solution |
| W1/1  | 1500.00 | 900.00  | 1.35 | 600.00  | 500.00 | S  | 0.54    | 756    | Any Solution | Any Solution |
| W2/1  | 600.00  | 900.00  | 0.54 | 600.00  | 500.00 | W  | 0.54    | 756    | Any Solution | Any Solution |
| W3/1  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | SW | 0.54    | 918    | Any Solution | Any Solution |
| W3/2  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NW | 0.54    | 918    | Any Solution | Any Solution |
| W3/3  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | N  | 0.54    | 918    | Any Solution | Any Solution |
| W3/4  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | W  | 0.54    | 918    | Any Solution | Any Solution |
| W3/5  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NW | 0.54    | 918    | Any Solution | Any Solution |
| W3/6  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | N  | 0.54    | 918    | Any Solution | Any Solution |
| W3/7  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NE | 0.54    | 918    | Any Solution | Any Solution |
| W3/8  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NW | 0.54    | 918    | Any Solution | Any Solution |
| W3/9  | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | N  | 0.54    | 918    | Any Solution | Any Solution |
| W3/10 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NE | 0.54    | 918    | Any Solution | Any Solution |
| W3/11 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | N  | 0.54    | 918    | Any Solution | Any Solution |
| W3/12 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | NE | 0.54    | 918    | Any Solution | Any Solution |
| W3/13 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | E  | 0.54    | 918    | Any Solution | Any Solution |
| W3/14 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | SE | 0.54    | 918    | Any Solution | Any Solution |
| W3/15 | 900.00  | 1200.00 | 1.08 | 600.00  | 500.00 | E  | 0.54    | 918    | Any Solution | Any Solution |
| W3/16 | 900.00  | 1300.00 | 1.08 | 600.00  | 500.00 | S  | 0.54    | 918    | Any Solution | Any Solution |
| W4/1  | 1558.00 | 1150.00 | 1.79 | 600.00  | 500.00 | N  | 0.54    | 891    | Any Solution | Any Solution |
| W5/1  | 1500.00 | 900.00  | 1.35 | 600.00  | 500.00 | S  | 0.54    | 756    | Any Solution | Any Solution |
| W6/1  | 900.00  | 900.00  | 0.81 | 600.00  | 500.00 | S  | 0.54    | 756    | Any Solution | Any Solution |

| Summary        |          |      |                 |                  |           |
|----------------|----------|------|-----------------|------------------|-----------|
| City/Town      | Latitude | Zone | Nett Floor Area | Fenestation Area | Glazing % |
| Port Elizabeth | 33.962   | 4    | 162.20          | 25.03            | 15.43     |

## FENESTRATION CALCULATIONS - OFFICE BUILDING 1

| Tag  | Width  | Height | A    | P-Value | G      | O | M-Value | Min. P | U-Value      | SHGC         |
|------|--------|--------|------|---------|--------|---|---------|--------|--------------|--------------|
| W1/I | 1500.0 | 1200.0 | 1.80 | 600.00  | 500.00 | E | 0.54    | 918    | Any Solution | Any Solution |
| W2/I | 1800.0 | 1500.0 | 2.70 | 600.00  | 500.00 | S | 0.54    | 1080   | Any Solution | Any Solution |
| W3/I | 900.0  | 900.0  | 0.81 | 600.00  | 500.00 | S | 0.54    | 756    | Any Solution | Any Solution |
| W4/I | 1200.0 | 1200.0 | 1.44 | 600.00  | 500.00 | W | 0.54    | 918    | Any Solution | Any Solution |
| W5/I | 1500.0 | 1200.0 | 1.80 | 600.00  | 500.00 | W | 0.54    | 918    | Any Solution | Any Solution |
| W6/I | 1200.0 | 600.0  | 0.72 | 600.00  | 500.00 | N | 0.54    | 594    | Any Solution | Any Solution |
| W7/I | 1500.0 | 1200.0 | 1.80 | 600.00  | 500.00 | N | 0.54    | 918    | Any Solution | Any Solution |
| W8/I | 1500.0 | 1200.0 | 1.80 | 600.00  | 500.00 | N | 0.54    | 918    | Any Solution | Any Solution |
| D1/I | 900.0  | 2125.0 | 1.91 | 715.00  | 500.00 | N | 0.54    | 1417.5 | Any Solution | Any Solution |

| Summary        |          |      |                 |                  |           |
|----------------|----------|------|-----------------|------------------|-----------|
| City/Town      | Latitude | Zone | Nett Floor Area | Fenestation Area | Glazing % |
| Port Elizabeth | 33.962   | 4    | 94,35           | 14,78            | 15,67     |

## APPLICATION OF SANS 10400-XA (Ed.2)

| ZONE 4 - CLASSIFICATION G1 / Offices |                                                 |                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                            |                      |             |        |          |  |
|--------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|--------|----------|--|
|                                      |                                                 | REQUIREMENTS                                                                                                                                                                                                                                |  | ACTUAL                                                                                                                                                                                                                                                                                                                                                                                                     |                      |             | STATUS |          |  |
| 1                                    | DESIGN                                          | The orientation is in accordance with the requirements of 5.1                                                                                                                                                                               |  | EXISTING BUILDING                                                                                                                                                                                                                                                                                                                                                                                          |                      |             |        | N/A      |  |
| 2                                    | SHADING                                         | The shading is in accordance with the requirements of 5.2                                                                                                                                                                                   |  | See <b>Fenestration</b> calculations                                                                                                                                                                                                                                                                                                                                                                       |                      |             |        | In order |  |
| 3                                    | FENESTRATIONS & ROOF LIGHTS                     | The fenestration is in accordance with the requirements of 5.3                                                                                                                                                                              |  | See <b>Fenestration</b> calculations                                                                                                                                                                                                                                                                                                                                                                       |                      |             |        | In order |  |
| 4                                    | FLOOR INSULATION<br>for under floor heating     | The floors are in accordance with the requirements of 5.4<br><div>5.4.1. Surface bed (Heated)<br/>5.4.2. Suspended (Exposed)<br/>R-value =&gt; <b>1.00</b></div>                                                                            |  | <b>Under slab (Heated):</b>                                                                                                                                                                                                                                                                                                                                                                                | mm                   | W/m.K       | R-Val. |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Lambdaboard                                                                                                                                                                                                                                                                                                                                                                                                | 000                  | 0.024       | 0.00   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Total R-value:</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Req. &gt;=1.0</b> | <b>0.00</b> |        | N/A      |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Suspended Floor (Exposed):</b>                                                                                                                                                                                                                                                                                                                                                                          | mm                   | W/m.K       | R-Val. |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Isover Aerolite Insulation                                                                                                                                                                                                                                                                                                                                                                                 | 050                  | 0.044       | 1.14   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Total R-value:</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Req. &gt;=1.0</b> | <b>1.14</b> |        | N/A      |  |
| 5                                    | EXTERNAL WALLS<br>Surface density<br>< 270kg/m² | The external walls are in accordance with the requirements of 5.5<br><div>Zone 4:<br/>50mm Cavity wall:<br/>R-value =&gt; 1.9</div>                                                                                                         |  | <b>External wall:</b>                                                                                                                                                                                                                                                                                                                                                                                      | 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   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Inner Air-Film (1/9.4)                                                                                                                                                                                                                                                                                                                                                                                     | 1000                 | 9.4         | 0.11   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Total R-value:</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Req. &gt;=1.9</b> | <b>2.26</b> |        | In order |  |
| 6                                    | ROOF & CEILING<br>ASSEMBLY                      | The roof and ceiling assemblies are in accordance with the requirements of 5.6<br><div>Zone:<br/>Direction of Flow: <b>4 UP</b><br/><b>5° Metal roof with Horizontal ceiling</b></div>                                                      |  | <b>5° PITCH ROOF</b>                                                                                                                                                                                                                                                                                                                                                                                       | mm                   | W/m.K       | R-Val. |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Outer Air-Film (1/20)                                                                                                                                                                                                                                                                                                                                                                                      | n/a                  | n/a         | 0.05   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Metal Roofing/sheeting                                                                                                                                                                                                                                                                                                                                                                                     | 0/0                  | 53.00       | 0.00   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Air-space & Slatolite                                                                                                                                                                                                                                                                                                                                                                                      | 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                                                                                                                                                                                                                                                                                                                                                                                             | 64.0                 | 0.17        | 0.04   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | Inner Air-Film (1/11.0)                                                                                                                                                                                                                                                                                                                                                                                    | n/a                  | n/a         | 0.09   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Total R-value:</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Req. &gt;=3.7</b> | <b>4.07</b> |        | 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.<br><br>The maximum air leakage for windows and doors shall comply with the requirements of SANS 613.                                                                                                                   |                      |             |        | In order |  |
| 8                                    | HOT WATER<br>Classification<br>G1 - Offices     | The building hot water is in accordance with the requirements of 6.1<br><br>m²/ Per Person: 15<br><br>m² / Total Office: 162                                                                                                                |  | Stipulated 24hr hot water @ 60°C min: 6 L/p<br><br>162 / 15 = 10.80 Occupation<br>Minimum hot water storage:<br>(6) * 1.5) x 10.8 = <b>97.2 L/p</b><br><br>Solar Heater (MJ/Day):<br>100% * 0.1) = 10 MJ/day (min.)<br>100% * 0.15) = 15 MJ/day (max.)                                                                                                                                                     |                      |             |        | In order |  |
|                                      | PIPE INSULATION<br>(hot water pipe)             | Internal pipe diameter ≤ 80mm:<br>Minimum R-value of 1.00                                                                                                                                                                                   |  | Closed cell elastomeric thermal insulation                                                                                                                                                                                                                                                                                                                                                                 | mm                   | W/m.K       | R-Val. |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                            | 38                   | 0.036       | 1.06   |          |  |
|                                      |                                                 |                                                                                                                                                                                                                                             |  | <b>Total R-value:</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Req. 1.0</b>      | <b>1.06</b> |        | In order |  |
| 9                                    | LIGHTING<br>Classification<br>G1 - Offices      | <b>MAXIMUM ENERGY DEMAND</b><br><br>Constant = 8 W/m²<br><br>92.61 m²<br>x 8 W/m²<br>741 W [MAX.]<br><br><b>MINIMUM LUX</b><br><br>Minimum light lux level: 400<br><br>The lighting lux is in accordance with the requirements of SANS10114 |  | <b>LIGHTS:</b><br><br>Qty. Watts Lm/W<br><br>LED DN Lights: 000 10 80<br>LED UP/DN Lights: 000 20 160<br>LED Wall Lights: 000 04 100<br>Compact Fluor. light: 010 45 58<br>Fluorescent light: 000 36 79<br><br><b>TOTAL (watts &amp; Lumens): 650 37700</b><br><br>ENERGY DEMAND:<br><br>650W / 92.61m²<br><b>7.02W/m² &lt;= 8W/m² (max.)</b><br><br><b>LIGHT LUX:</b><br><br>37044 Lumens <= 37700 Lumens |                      |             |        | In order |  |

## REVISIONS:

[illegible]

GENERAL NOTES:

[illegible]

## DRAWING TITLE:

## MUNICIPAL SUBMISSIONS

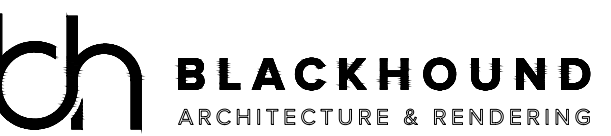
## PROJECT TITLE

ADDITIONS AND ALTERATIONS ON **ERF**  
**100, NEWTON PARK** , PORT ELIZABETH  
 FOR **SIMPLYCIVILS (Pty) Ltd**

26 Jun 24

.....

CLIENT SIGNATURE



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072 799 9597 | 072 418 6867  
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Unit 10, The Network, 19 Cactus Rd  
Fairview, Port Elizabeth, 6070

26 Jun 24

.....

PROFESSIONAL SIGNATURE

## MUNICIPAL INFORMATION:

|                  |                              |
|------------------|------------------------------|
| ERF NO:          | <b>100, Newton Park</b>      |
| ERF AREA:        | 1673 sqm                     |
| EXISTING AREA:   | 262 sqm                      |
| NEW AREA:        | 114 sqm                      |
| TOTAL AREA:      | 376 sqm                      |
| EX. COVERAGE:    | 262 sqm - 16%                |
| NEW COVERAGE:    | <b>114 sqm - 7%</b>          |
| TOTAL COVERAGE:  | 376 sqm - 22%                |
| NEW GARAGES:     | 0                            |
| NEW BATHROOMS:   | 4                            |
| POOL:            | NO                           |
| BOUNDARY WALLS:  | 0 M                          |
| AGE OF BUILDING: | [2024 - 1952] = 72 years ago |



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|                                      |                     |
|--------------------------------------|---------------------|
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