

**This is an Revit Building generated Drawing.**  
Drawings must not be scaled. Figured dimensions only may be used.  
Dimensions should be verified on site and any discrepancies or ambiguities reported to the Architects immediately.

This drawing is copyright and the property of VIVID ARCHITECTS and must not be retained, copied or used without authority.

**FOUNDATIONS:**  
To be constructed in accordance with Part H of SANS 10400, to appointed structural engineer's detail.

**WALLS:**  
To be constructed in accordance with Part K of SANS 10400-2011.

- External walls: min. 280mm Clay brick cavity wall in-between reinforced concrete columns to structural engineers detail
- Internal walls: 230 mm Clay Brickwork walls - to 120 min. fire rated division walls, & 100 mm Plaster board & galvanised stud walls to Offices. 230mm clay brickwork to toilets, stores, plant rooms etc. 300mm thick acoustically rated Plaster board & galvanised stud walls to Hotel. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens.
- Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m².
- Ventilation openings as indicated on drawings.

**Finish:**  
-External Walls: Facebrick finish where specified. Tiles on plastered brickwork/concrete to entrances and ground floor feature walls where indicated. Special (smooth and fair) concrete where indicated.

- Internal Brick/block fire walls: Plaster and paint
- Internal drywalls to Offices & Hotel: skimmed and primed for tenant painted finishing
- Internal 230mm brickwork to toilets: Tiled to full ceiling height; plaster above

**FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2010.

- Internal: Basement - Reinforced concrete surface bed on 375mc dpm on layer works all to structural engineer's detail and specification.
- Internal: Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.
- Balconies: 255-300mm reinforced concrete slab to structural engineers specification.
- External: reinforced concrete slab to structural engineers specification; to falls where possible.

**Finish:**  
-change in levels in accordance with part S of SANS 10400-2011

- as indicated on layouts on minimum 35mm thick sand/cement screed.
- Internal - Lobby, toilets, public passageways and staircases: porcelain tiles.
- Internal - Office units: to tenant fit-out.
- Escape Stairs, Plant rooms & stores - Granolithic screed
- Lower ground parking - Semi-rough powerfloated concrete surface bed
- Balconies - Tiles on waterproofing on screed to fall to outlets.
- Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab laid to falls to fullbore outlets.

**ROOFS:**  
To be constructed in accordance with part L of SANS 10400.

- Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bore on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.
- pc pavers to walkways for maintenance purposes.

**CEILING:**  
-In accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes

- Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab
- Offices: 1200 x 600mm lay-in-tile suspended ceilings
- Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.
- Toilets: skimmed and painted gypsum ceilings
- Basement; Plant Rooms; Service/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling
- Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:**  
In accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011

- External: Polyester Powder coated glazed aluminium doors to detail.
- Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.
- Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers, including Vermin Proofing where required.
- Internal: Solid Core veneered doors for painting.
- Lift Lobby: All lift doors to be 120min fire rated;
- Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates
- Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames
- Dust Doors: Solid Core timber doors in Powder coated aluminium frames

**STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011

- Reinforced concrete to structural engineers detail: Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.
- Glazing to be in accordance with part N of SANS 10400-2010.

**LIGHTING & VENTILATION:**  
To be provided in accordance with Part O of SANS 10400-2011.

- Minimum of 10% of floor area natural light
- Minimum of 5% of floor area natural ventilation where applicable
- Artificial lighting in accordance with Electrical Engineers specification.
- Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.
- Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.

**FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.- Shopfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**  
To be constructed in accordance with Part P of SANS 10400-2010.

- Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**  
To be constructed in accordance with Part R of SANS 10400.

- All stormwater to Civil Engineers specification.

**BALUSTRADES:**  
Will comply with Part D SANS 10400-2011 Public Safety

- 1000mm high, from finished floor level in all instances; as annotated on the drawings
- structural glass, concrete, or galvannead mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**  
To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.

- In accordance with Rational Fire Engineers design; drawings; and Specification

**REFUSE DISPOSAL:**  
RFA 08-16-20 Council Submission MD

**FACILITIES FOR PERSONS WITH DISABILITIES:**  
To be provided in accordance with Part S SANS 10400-2011.

- In accordance with rational fire consultant's specification. BY

| Land unit area (m²) | Floor factor | Maximum floor space | Coverage | Maximum height above existing ground level |                | Street boundary building line | Common boundary building line |
|---------------------|--------------|---------------------|----------|--|----------------|-------------------------------|-------------------------------|
|                     |              |                     |          | To wall-plate                              | To top of roof |                               |                               |
| >2 000              | N/a          | 1 500 m²            | N/a      | 9,0 m                                      | 11,0 m         | 6,0 m                         | 6,0 m                         |
| >1 000 up to 2 000  | N/a          | 1 500 m²            | N/a      | 9,0 m                                      | 11,0 m         | 4,5 m                         | 3,0 m                         |
| >650 up to 1 000    | N/a          | 1 500 m²            | N/a      | 9,0 m                                      | 11,0 m         | 3,5 m                         | 3,0 m                         |

PROJECT INFORMATION

|                  |
|------------------|
| Owner            |
| Signature        |
| Date             |
| Architect        |
| Signature        |
| Date             |
| Registration No. |

PROJECT:  
**ERF 2869 RATHFELDER**

DRAWING:  
  
Site Plan

PURPOSE OF ISSUE:  
**WORKING DRAWINGS**

|         |                   |         |    |
|---------|-------------------|---------|----|
| SCALE   | As indicated      | DRAWN   | MD |
| DATE    | 08/18/20          | CHECKED | LM |
| DRAWING | <b>0001 C_001</b> | REV     | B  |

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and must not be retained, copied or used without authority.

**FOUNDATIONS:**  
To be constructed in accordance with Part H of SANS 10400, to appointed structural engineer's detail.

**WALLS:**  
To be constructed in accordance with Part K of SANS 10400-2011.  
-External walls: min. 280mm Clay brick cavity wall in-between reinforced concrete columns to structural engineers detail  
-Internal walls: 230 mm Clay Brickwork walls - to 120 min. fire rated division walls, & 100 mm Plaster board & galvanised stud walls to Offices. 230mm clay brickwork to toilets, stores, plant rooms etc. 300mm thick acoustically rated Plaster board & galvanised stud walls to Hotel. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens.  
-Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m².  
-Ventilation openings as indicated on drawings.

**FINISH:**  
-External Walls: Facebrick finish where specified. Tiles on plastered brickwork/concrete to entrances and ground floor feature walls where indicated. Special (smooth and fair) concrete where indicated.  
-Internal Brick block fire walls: Plaster and paint  
-Internal drywalls to Offices & Hotel: skimmed and primed for tenant painted finishing  
-Internal 230mm brickwork to toilets: Tiled to full ceiling height; plaster above

**FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2010.  
-Internal - Basement - Reinforced concrete surface bed on 375mic dpm on layer works all to structural engineer's detail and specification.  
-Internal - Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.  
-Balconies: 255-300mm reinforced concrete slab to structural engineers specification.  
-External: reinforced concrete slab to structural engineers specification; to falls where possible.

**FINISH:**  
-change in levels in accordance with part S of SANS 10400-2011  
-as indicated on layouts on minimum 35mm thick sand/cement screed.  
-Internal - Lobby, toilets, public passageways and staircases: porcelain tiles.  
-Internal - Office units: to tenant fit-out.  
-Escalator Stairs, Plant rooms & stores - Granolithic screed  
-Lower ground parking - Semi-rough powerfloated concrete surface bed  
-Balconies - Tiles on waterproofing on screed to fall to outlets.  
-Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab laid to falls to fullbore outlets.

**ROOFS:**  
To be constructed in accordance with part L of SANS 10400.  
-Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bore on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
-pc pavers to walkways for maintenance purposes.

**CEILING:**  
-In accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes  
-Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab  
-Offices: 1200 x 600mm lay-in-tile suspended ceilings  
-Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.  
-Toilets: skimmed and painted gypsum ceilings  
-Basement: Plant Rooms, Service/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling  
-Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:**  
In accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-External:  
-Polyester Powder coated glazed aluminium doors to detail.  
-Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.  
-Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers, including Vermin Proofing where required.  
-Internal:  
-Solid Core veneered doors for painting.  
-Lift Lobby: All lift doors to be 120min fire rated;  
-Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates  
-Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames  
-Duct Doors: Solid Core timber doors in Powder coated aluminium frames

**STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-Reinforced concrete to structural engineers detail. Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.

**GLAZING:**  
Glazing to be in accordance with part N of SANS 10400-2010.

**LIGHTING & VENTILATION:**  
To be provided in accordance with Part O of SANS 10400-2011.  
-Minimum of 10% of floor area natural light  
-Minimum of 5% of floor area natural ventilation where applicable  
-Artificial lighting in accordance with Electrical Engineers specification.  
-Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
-Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.

**FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
-Shedfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**  
To be constructed in accordance with Part P of SANS 10400-2010.  
-Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**  
To be constructed in accordance with Part R of SANS 10400.  
-All stormwater to Civil Engineers specification.

**BALUSTRADES:**  
Will comply with Part D SANS 10400-2011 Public Safety  
-1000mm high, from finished floor level in all instances; as annotated on the drawings  
-structural glass, concrete, or galvanised mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**  
To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.  
-In accordance with Rational Fire Engineers design; drawings; and Specification

**REFUSE DISPOSAL:**  
TBA 08-18-20 Council Submission MD  
**FACILITIES FOR PERSONS WITH DISABILITIES:**  
To be provided in accordance with Part S SANS 10400-2011.  
-In accordance with rational fire consultants specification. BY

# MIRA ARCHITECTS

PROJECT:  
**ERF 2869 RATHFELDER**

DRAWING:  
**Basement Plan**

PURPOSE OF ISSUE:  
**WORKING DRAWINGS**

|         |            |         |    |
|---------|------------|---------|----|
| SCALE   | 1 : 100    | DRAWN   | MD |
| DATE    | 08/18/20   | CHECKED | LM |
| DRAWING | 0001 C_002 | REV     | B  |

|           |
|-----------|
| Owner     |
| Signature |
| Date      |

|                  |
|------------------|
| Architect        |
| Signature        |
| Date             |
| Registration No. |

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To be constructed in accordance with Part H of SANS 10400, to appointed structural engineer's detail.
- WALLS:**  
To be constructed in accordance with Part K of SANS 10400-2011.  
-External walls: min. 280mm Clay brick cavity wall in-between reinforced concrete columns to structural engineers detail.  
-Internal walls: 230 mm Clay Brickwork walls - to 120 min. fire rated division walls, & 100 mm Plaster board & galvanised stud walls to Offices. 230mm clay brickwork to toilets, stores, plant rooms etc. 300mm thick acoustically rated Plaster board & galvanised stud walls to Hotel. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens.  
Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m<sup>2</sup>.  
-Ventilation openings as indicated on drawings.
- FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2010.  
-Internal: Basement - Reinforced concrete surface bed on 375mic dpm on layer works all to structural engineer's detail and specification.  
-Internal: Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.  
-Balconies: 255-300mm reinforced concrete slab to structural engineers specification.  
-External: reinforced concrete slab to structural engineers specification; to falls where possible.
- change in levels in accordance with part S of SANS 10400-2011**  
-as indicated on layouts on minimum 35mm thick sand/cement screed.  
-Internal: Lobby, toilets, public passageways and staircases: porcelain tiles.  
-Internal: Office units: to tenant fit-out.  
-Escapes: Plant rooms & stores - Granolithic screed  
-Lower gill and parking - Semi-rough powerfloat concrete surface bed  
-Balconies - Tiles on waterproofing on screed to fall to outlets.  
-Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab fall to falls to fullbore outlets.
- ROOFS:**  
To be constructed in accordance with part L of SANS 10400.  
Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bore on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
to pavers to walkways for maintenance purposes.
- CEILING:**  
In accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes  
-Hotel, Office, Apartments, and all Lobby, passage, foyer areas and bathrooms above families: suspended 6mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab  
-Offices: 1200 x 600mm lay-in-tile suspended ceilings  
-Conference: suspended 6mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.  
-Toilets: skimmed and painted gypsum ceilings  
-Basement: Plant Rooms, Services/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling  
-Balconies: skimmed and painted reinforced concrete slab soffits
- DOORS:**  
In accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-External:  
-Polyester Powder coated glazed aluminium doors to detail.  
-Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.  
-Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers; including Vermin Proofing where required.  
-Internal:  
-Solid Core veneered doors for painting.  
-Lift Lobby: All lift doors to be 120min fire rated.  
-Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates  
-Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames  
-Duct Doors: Solid Core timber doors in Powder coated aluminium frames
- STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-Reinforced concrete to structural engineers detail. Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.
- GLAZING:**  
Glazing to be in accordance with part N of SANS 10400-2010.
- LIGHTING & VENTILATION:**  
To be provided in accordance with Part O of SANS 10400-2011.  
-Minimum of 10% of floor area natural light  
-Minimum of 5% of floor area natural ventilation where applicable  
-Artificial lighting in accordance with Electrical Engineers specification.  
-Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
-Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.
- FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
-Shopfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.
- DRAINAGE:**  
To be constructed in accordance with Part P of SANS 10400-2010.  
-Drainage and water reticulation to Plumbing Engineers specifications and drawings.
- STORMWATER DISPOSAL:**  
To be constructed in accordance with Part R of SANS 10400.  
-All stormwater to Civil Engineers specification.
- BALUSTRADES:**  
Will comply with Part D SANS 10400-2011 Public Safety  
-1000mm high, from finished floor level in all instances; as annotated on the drawings  
-structural glass, concrete, or galvanised mild steel painted where indicated.
- FIRE PROTECTION & FIRE INSTALLATION:**  
To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.  
In accordance with Rational Fire Engineers design, drawings; and Specification
- REFUSE DISPOSAL:**  
To be provided in accordance with Part S SANS 10400-2011.  
In accordance with rational fire engineers fire consultant's specification.

# MIRA ARCHITECTS

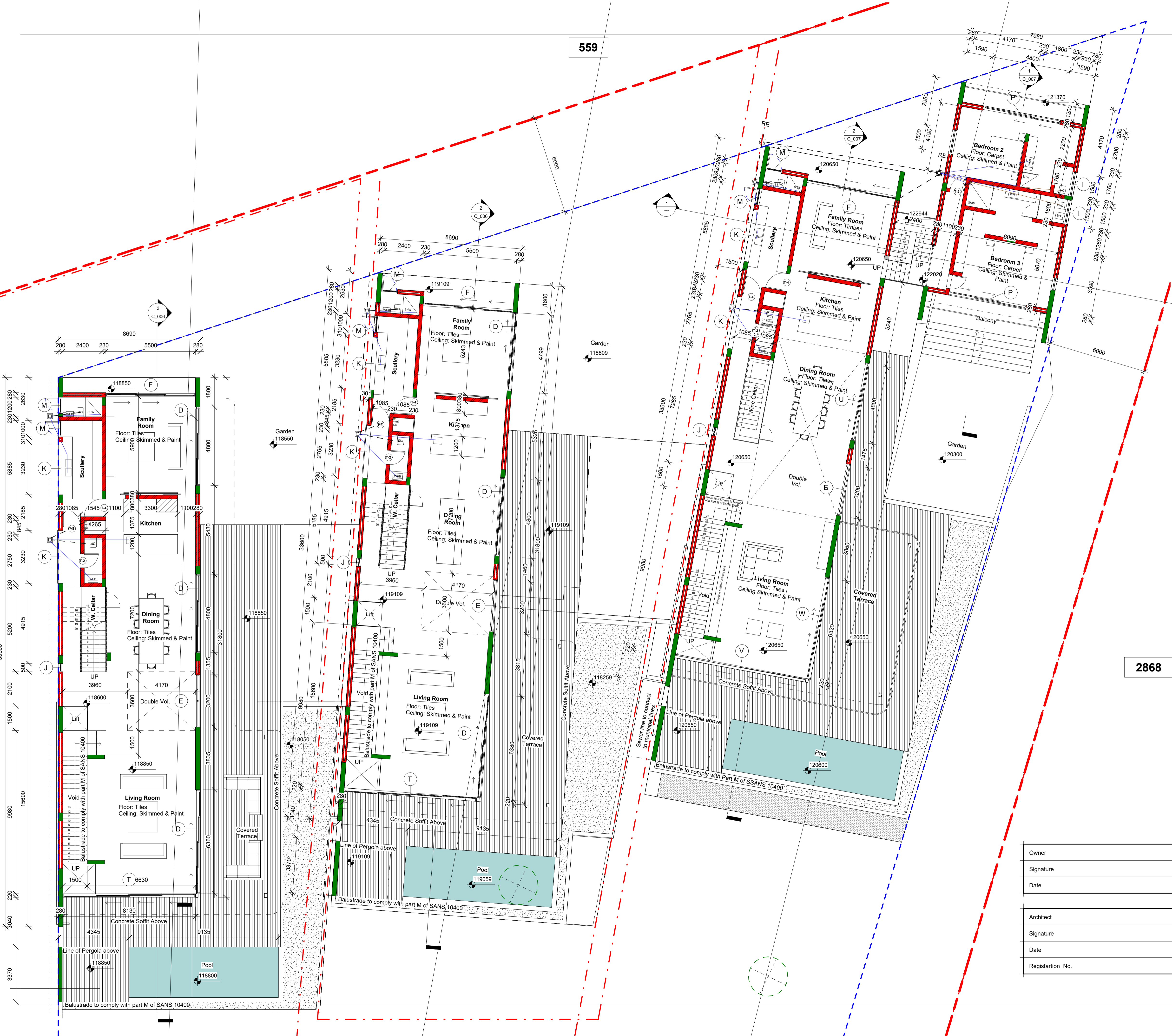
PROJECT:  
**ERF 2869 RATHFELDER**

DRAWING:  
**Groundfloor Plan**

PURPOSE OF ISSUE:  
**WORKING DRAWINGS**

|         |            |         |    |
|---------|------------|---------|----|
| SCALE   | 1 : 100    | DRAWN   | MD |
| DATE    | 08/18/20   | CHECKED | LM |
| DRAWING | 0001 C_003 | REV     | B  |

|                  |  |
|------------------|--|
| Owner            |  |
| Signature        |  |
| Date             |  |
| Architect        |  |
| Signature        |  |
| Date             |  |
| Registration No. |  |



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**WALLS:**  
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-Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m<sup>2</sup>.  
-Ventilation openings as indicated on drawings.  
-Finish:  
-External Walls: Facebrick finish where specified. Tiles on plastered brickwork/concrete to entrances and ground floor feature walls where indicated. Special (smooth and fair) concrete where indicated.  
-Internal Brick/block fire walls: Plaster and paint  
-Internal drywalls to Offices & Hotel: skimmed and primed for tenant painted finishing  
-Internal 230mm brickwork to toilets: Tiled to full ceiling height; plaster above

**FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2010.  
-Internal: Basement - Reinforced concrete surface bed on 375mic dpn on layer works all to structural engineer's detail and specification.  
-Internal: Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.  
-Balconies: 255-300mm reinforced concrete slab to structural engineers specification.  
-External: reinforced concrete slab to structural engineers specification; to falls where possible.  
-Finish:  
-change in levels in accordance with Part S of SANS 10400-2011 as indicated.  
-Internal: Lobby, toilets, public passageways and staircases: porcelain tiles.  
-Internal: Office units: to tenant fit-out.  
-Escalate Stairs, Plant rooms & stores - Granolithic screed  
-Lower ground parking - Semi-rough powerfloated concrete surface bed  
-Balconies - Tiles on waterproofing on screed to fall to outlets.  
-Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab laid to falls to fulbore outlets.

**ROOFS:**  
To be constructed in accordance with part L of SANS 10400.  
-Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bore on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
-pc pavers to walkways for maintenance purposes.

**CEILING:**  
To be constructed in accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes  
-Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab  
-Offices: 1200 x 600mm lay-in-tile suspended ceilings  
-Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.  
-Toilets: skimmed and painted gypsum ceilings  
-Basement: Plant Rooms, Service/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling  
-Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:**  
To be constructed in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-External:  
-Polyester Powder coated glazed aluminium doors to detail.  
-Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.  
-Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers, including Vermin Proofing where required.  
-Internal:  
-Solid Core veneered doors for painting.  
-Lift Lobby: All lift doors to be 120min fire rated.  
-Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates  
-Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames  
-Duct Doors: Solid Core timber doors in Powder coated aluminium frames

**STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
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**GLAZING:**  
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**LIGHTING & VENTILATION:**  
-To be provided in accordance with Part O of SANS 10400-2011.  
-Minimum of 10% of floor area natural light  
-Minimum of 5% of floor area natural ventilation where applicable  
-Artificial lighting in accordance with Electrical Engineers specification.  
-Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
-Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.

**FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
-Shedfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**  
To be constructed in accordance with Part P of SANS 10400-2010.  
-Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**  
To be constructed in accordance with Part R of SANS 10400.  
-All stormwater to Civil Engineers specification.

**BALUSTRADES:**  
Will comply with Part D SANS 10400-2011 Public Safety  
-1000mm high, from finished floor level in all instances; as annotated on the drawings  
-structural glass; concrete; or galvanised mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**  
To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.  
-In accordance with Rational Fire Engineers design; drawings; and Specification

**REFUSE DISPOSAL:**  
TFA 08-18-20 Council Submission MD

**FACILITIES FOR PERSONS WITH DISABILITIES:**  
To be provided in accordance with Part S SANS 10400-2011. BY

# MIRA ARCHITECTS

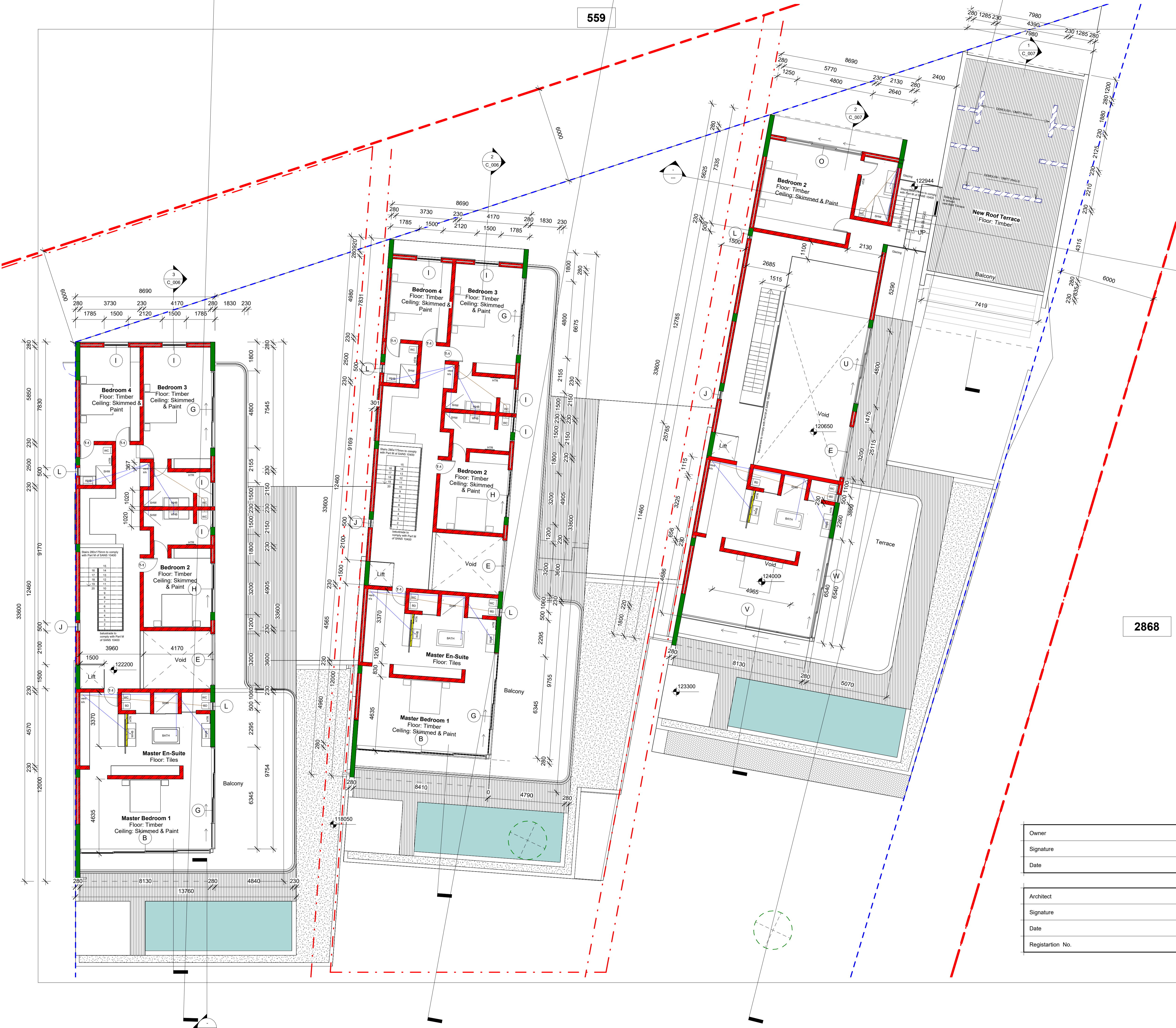
PROJECT:  
**ERF 2869 RATHFELDER**

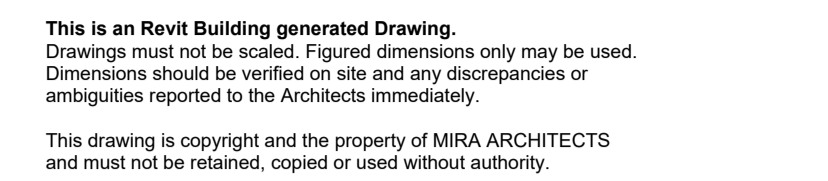
DRAWING:  
**First Floor Plan**

PURPOSE OF ISSUE:  
**WORKING DRAWINGS**

|         |            |         |    |
|---------|------------|---------|----|
| SCALE   | 1 : 100    | DRAWN   | MD |
| DATE    | 08/18/20   | CHECKED | LM |
| DRAWING | 0001 C_004 | REV     | B  |

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| Owner            |  |
| Signature        |  |
| Date             |  |
| Architect        |  |
| Signature        |  |
| Date             |  |
| Registration No. |  |





**FOUNDATIONS:**

- To be constructed in accordance with Part H of SANS 10400-2, to appointed structural engineer's detail.

**WALLS:**

- To be constructed in accordance with Part K of SANS 10400-2-1
- structural walls: 200mm clay brick cavity wall in-between reinforced concrete columns to structural engineers detail
- Internal walls: 200mm Clay Brickwork walls - in 120mm fire rated division walls
- 100mm plaster board galvanneal stud walls to SANS 2030mm and 2400mm to toilets, stores, plant rooms etc. 300mm brick acoustically rated Plaster board and 120mm plastered brickwork finish. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens
- Note: Cavity walls to be tied together with galvanneal steel "butterfly" ties, with a maximum of 2.5 ties per m<sup>2</sup>
- Ventilation openings as indicated on drawings

**Floors:**

- Internal walls: Facebrick finish where specified. Ties on plastered brickwork/concrete to entrances and ground floor feature walls where indicated. Special (smooth and fair) external finish to be used on all external walls
- Internal Brick/ block fire walls: Plaster and paint
- Internal drywalls to Offices & Hall: skimmed and primed for painted finished linings
- Internal 200mm brickwork walls: 120mm fire rated plaster board, height appointed

**FLOORS:**

- To be constructed in accordance with part 5 of SANS 10400-2010.
- Internal Basement - Reinforced concrete surface bed on 375mm dmm on layer works also at structural engineer's detail and specification.
- Internal Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineer's specification.
- Balconies - 255-300mm reinforced concrete slab to structural engineers specification.
- External reinforced concrete slab to structural engineers specification; to falls where possible.
- Finish:
- change in levels in accordance with part 5 of SANS 10400-2011 as indicated on layouts on minimum 35mm thick sand/cement screed.
- Internal - lobby, toilets, public passageways and staircases: porcelain tiles
- Internal - Office units to be finished with polished concrete
- Escape Stairs, Plant rooms & stores - Granolithic screed
- Lower - Ground floor to be finished with polished concrete
- Balconies - Tiles on waterproofing sand to screed to fall to outlets.
- Padium - Paving on 30mm sand binding on fully waterproofed post-tensioned concrete slab to falls to fall/surface water.

**ROOFS:**  
 -To be constructed in accordance with part L of SANS 10400.  
 -Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bores on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
 -pc pavers to walkways for maintenance purposes.

**CEILING**

- In accordance with Part C, Part L, Part T of SANS 10400-2011 and all other relevant SANS codes
- Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab
- Offices: 1200 x 600mm lay-in-lay suspended ceilings
- Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required
- Toilets: skimmed & painted gypsum ceilings
- Basement: Plant Rooms, Service/escape passages, Escape staircases: Painted concrete soffits / 1200x600mm lay-in-lay skinning
- Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:** Skrimed and painted reinforced concrete solid points

**In accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011**

**External:**

- Polyester Powder coated glazed aluminium doors to detail.
- Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self-closers.
- Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self-closers; including Vermin Proofing where required.

**Internal:**

- Solid Core veneered doors for painting.
- Lift Lobby: All lift doors to be 1200mm fire rated.
- Fire Escape Doors: Class B fire doors (1200mm) on self-closers and panic ironmongery, with stainless steel kick plates
- Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. to Powder coated aluminium frame
- Bath Doors: Solid Core doors in Powder coated aluminium frames

- **Stairs:**
  - Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011
  - Reinforced concrete to structural engineers detail: Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.

max. 170mm. Clear warden min. 1500mm. Balastrades 1000mm high.  
**GLAZING:**  
 Glazing to be in accordance with part N of SANS 10400-2011.  
**LIGHTING & VENTILATION:**  
 -To be provided in accordance with Part O of SANS 10400-2011.  
 -Minimum of 10% of floor area natural light  
 -Minimum of 5% of floor area natural ventilation where applicable  
 -Artificial lighting in accordance with Electrical Engineers specification.  
 -Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
 -Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification

**FENESTRATION:**  
 -Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
 -Shopfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**

**DRAINAGE:**

- To be constructed in accordance with Part P of SANS 10400-2010.
- Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**

- To be constructed in accordance with Part R of SANS 10400.
- All stormwater to Civil Engineers specification.

Also stormwater to Civil Engineers specification.

**BALUSTRADES:**

**Will comply with Part D SANS 10400-2011 Public Safety**  
1000mm high, from finished floor level in all instances; as annotated on the drawings  
structural glass; concrete; or galvanised mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**

**To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.**

Consistent with National Fire Engineers design, drawings and Specification

|  |    |
|--|----|
| <ul style="list-style-type: none"> <li>· In accordance with Rational Fire Engineers design; drawings; and Specification</li> </ul>   |    |
| <p><b><u>REFUSE DISPOSAL:</u></b></p> <ul style="list-style-type: none"> <li>· ToA 08-18-20 Council Submission MD</li> </ul>   |    |
| <p><b><u>FACILITIES FOR PERSONS WITH DISABILITIES:</u></b></p> <ul style="list-style-type: none"> <li>· To be provided in accordance with Part S SANS 10400-2011.</li> </ul> |    |
| <ul style="list-style-type: none"> <li>· In accordance with rational fire consultant's specification.</li> </ul>   | BY |

PROJECT:

**ERF 2869 RATHFELDER**

DRAWING:

Roof Plan

PURPOSE OF ISSUE:

**WORKING DRAWINGS**

|         |                   |         |          |
|---------|-------------------|---------|----------|
| SCALE   | 1 : 100           | DRAWN   | MD       |
| DATE    | 08/18/20          | CHECKED | LM       |
| DRAWING | <b>0001 C_005</b> | REV     | <b>B</b> |

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| Owner            |
| Signature        |
| Date             |
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| Architect        |
| Signature        |
| Date             |
| Registration No. |

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Dimensions should be verified on site and any discrepancies or ambiguities reported to the Architects immediately.

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**FOUNDATIONS:**  
To be constructed in accordance with Part H of SANS 10400, to appointed structural engineer's detail.

**WALLS:**  
To be constructed in accordance with Part K of SANS 10400-2011.  
-External walls: min. 280mm Clay brick cavity wall in-between reinforced concrete columns to structural engineers detail  
-Internal walls: 230 mm Clay Brickwork walls - to 120 min. fire rated division walls, & 100 mm Plaster board & galvanised stud walls to Offices. 230mm clay brickwork to toilets, stores, plant rooms etc. 300mm thick acoustically rated Plaster board & galvanised stud walls to Hotel. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens.  
-Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m².  
-Ventilation openings as indicated on drawings.

**FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2011.  
-Internal: Basement - Reinforced concrete surface bed on 375mc dpm on layer works all to structural engineer's detail and specification.  
-Internal: Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.  
-Balconies: 255-300mm reinforced concrete slab to structural engineers specification.  
-External: reinforced concrete slab to structural engineers specification; to falls where possible.  
-change in levels in accordance with part S of SANS 10400-2011  
-as indicated on layouts on minimum 35mm thick sand/cement screed.  
-Internal - Lobby, toilets, public passageways and staircases: porcelain tiles.  
-Internal - Office units: to tenant fit-out.  
-Escape Stairs, Plant rooms & stores - Granolithic screed  
-Lower ground parking - Semi-rough powerfloated concrete surface bed  
-Balconies - Tiles on waterproofing on screed to fall to outlets.  
-Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab laid to falls to furlore outlets.

**ROOFS:**  
To be constructed in accordance with part L of SANS 10400.  
-Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-borers on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
-pc pavers to walkways for maintenance purposes.

**CEILING:**  
-In accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes  
-Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab  
-Offices: 1200 x 600mm lay-in-tile suspended ceilings  
-Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.  
-Toilets: skimmed and painted gypsum ceilings  
-Basement: Plant Rooms, Service/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling  
-Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:**  
To be constructed in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-External:  
-Polyester Powder coated glazed aluminium doors to detail.  
-Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.  
-Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers, including Vermin Proofing where required.  
-Internal:  
-Solid Core veneered doors for painting.  
-Lift Lobby: All lift doors to be 120min fire rated;  
-Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates  
-Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames  
-Duct Doors: Solid Core timber doors in Powder coated aluminium frames

**STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-Reinforced concrete to structural engineers detail: Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.

**GLAZING:**  
Glazing to be in accordance with part N of SANS 10400-2010.

**LIGHTING & VENTILATION:**  
To be provided in accordance with Part O of SANS 10400-2011.  
-Minimum of 10% of floor area natural light  
-Minimum of 5% of floor area natural ventilation where applicable  
-Artificial lighting in accordance with Electrical Engineers specification.  
-Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
-Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.

**FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
-Shoofronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**  
To be constructed in accordance with Part P of SANS 10400-2010.  
-Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**  
To be constructed in accordance with Part R of SANS 10400.  
-All stormwater to Civil Engineers specification.

**BALUSTRADES:**  
Will comply with Part D SANS 10400-2011 Public Safety  
-1000mm high, from finished floor level in all instances; as annotated on the drawings  
-structural glass, concrete, or galvanised mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**  
To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.  
-In accordance with Rational Fire Engineers design; drawings; and Specification

**REFUSE DISPOSAL:**  
To be provided in accordance with Part S SANS 10400-2011.  
-In accordance with rational fire engineers fire consultant's specification.

MD  
BY

## MIRA ARCHITECTS

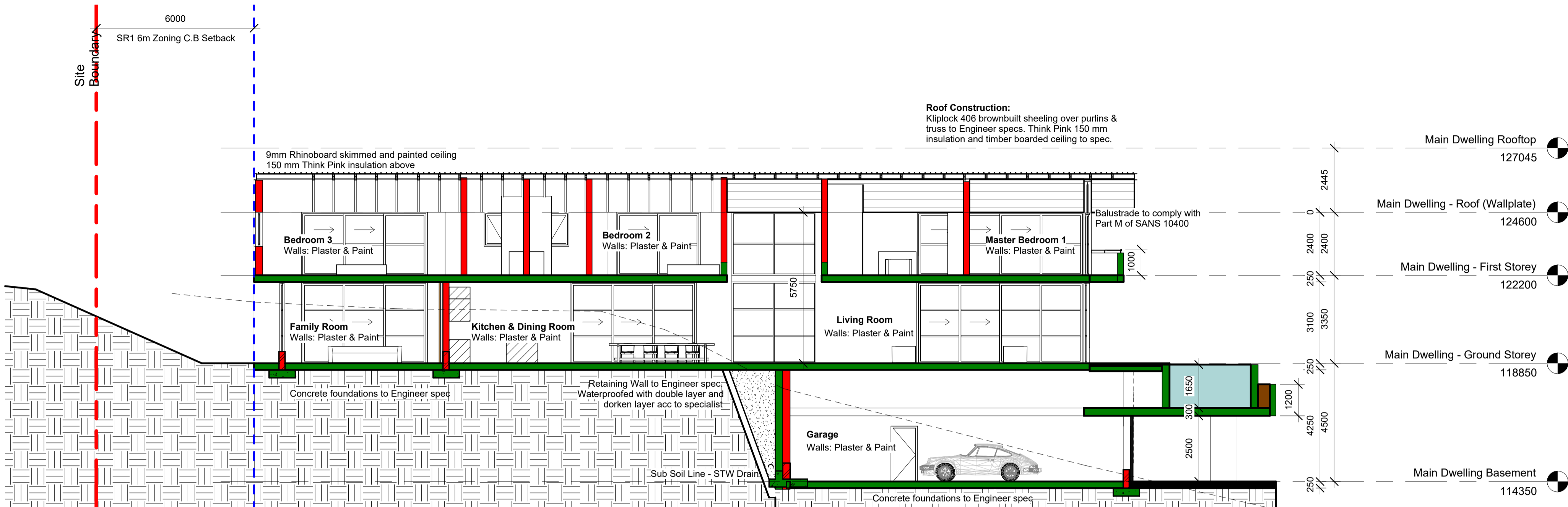
PROJECT:  
**ERF 2869 RATHFELDER**

DRAWING:  
**Sections- Site B & C**

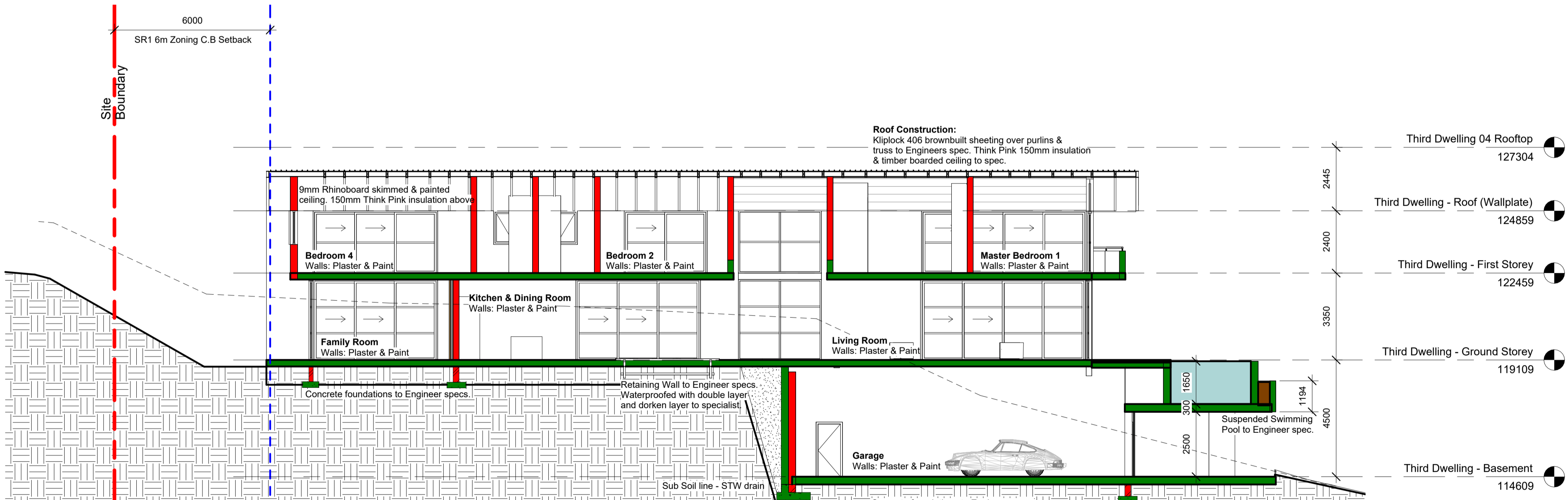
| PURPOSE OF ISSUE: |            |         |    |
|-------------------|------------|---------|----|
| WORKING DRAWINGS  |            |         |    |
| SCALE             | 1 : 100    | DRAWN   | MD |
| DATE              | 08/18/20   | CHECKED | LM |
| DRAWING           | 0001 C_006 | REV     | B  |

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| Owner     |
| Signature |
| Date      |

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| Architect        |
| Signature        |
| Date             |
| Registration No. |



C\_003 Main Dwelling -  
Section  
1: 100



C\_002 Third Dwelling -  
Section  
1: 100

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**FOUNDATIONS:**  
To be constructed in accordance with Part H of SANS 10400, to appointed structural engineer's detail.

**WALLS:**  
To be constructed in accordance with Part K of SANS 10400-2011.  
-External walls: min. 280mm Clay brick cavity wall in-between reinforced concrete columns to structural engineers detail  
-Internal walls: 230 mm Clay Brickwork walls - to 120 min. fire rated division walls, & 100 mm Plaster board & galvanised stud walls to Offices. 230mm clay brickwork to toilets, stores, plant rooms etc. 300mm thick acoustically rated Plaster board & galvanised stud walls to Hotel. Finish to brick walls generally plastered and painted; tiled to bathrooms and kitchens.  
-Note: Cavity walls to be tied together with galvanised steel 'butterfly' ties, with a minimum of 2.5 ties per m².  
-Ventilation openings as indicated on drawings.  
-Finish:  
-External Walls: Facebrick finish where specified. Tiles on plastered brickwork/concrete to entrances and ground floor feature walls where indicated. Special (smooth and fair) concrete where indicated.  
-Internal Brick/ block fire walls: Plaster and paint  
-Internal drywalls to Offices & Hotel: skimmed and primed for tenant painted finishing  
-Internal 230mm brickwork to toilets: Tiled to full ceiling height; plaster above

**FLOORS:**  
To be constructed in accordance with part J of SANS 10400-2010.  
-Internal - Basement - Reinforced concrete surface bed on 375mic dpm on layer works all to structural engineer's detail and specification.  
-Internal - Upper floors - 255-300mm thick post-tensioned concrete power floated slab to structural engineers detail.  
-Balconies: 255-300mm reinforced concrete slab to structural engineers specification.  
-External: reinforced concrete slab to structural engineers specification; to falls where possible.  
-Finish:  
-change in levels in accordance with part S of SANS 10400-2011  
-as indicated on layouts on minimum 35mm thick sand/cement screed.  
-Internal - Lobby, toilets, public passageways and staircases: porcelain tiles.  
-Internal - Office units: to tenant fit-out.  
-Escapes Stairs, Plant rooms & stores - Granolithic screed  
-Lower ground parking - Semi-rough powerfloated concrete surface bed  
-Balconies - Tiles on waterproofing on screed to fall to outlets.  
-Podium - Paving on min 30mm sand blinding on fully waterproofed post-tensioned concrete slab laid to falls to fulbore outlets.

**ROOFS:**  
To be constructed in accordance with part L of SANS 10400.  
-Concrete roofs: 50mm layer stone chips on 70mm thick rigid foam insulation on waterproofing on screed to fall to full-bore on 255-300mm thick post-tensioned concrete slab to structural engineers specification and detail.  
-pc pavers to walkways for maintenance purposes.

**CEILING:**  
-In accordance with Part C; Part L; Part T of SANS 10400-2011 and all other relevant SANS codes  
-Hotel, Office, Apartments; and all Lobby, passage, foyer areas and bathrooms above vanities: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads to underside of concrete slab  
-Offices: 1200 x 600mm lay-in-tile suspended ceilings  
-Conference: suspended 6.5mm plasterboard skimmed & painted ceilings and bulkheads; with specialist acoustic ceilings where required.  
-Toilets: skimmed and painted gypsum ceilings  
-Basement: Plant Rooms, Service/escape passages; Escape staircases: Painted concrete soffits / 1200x600mm lay in tile suspended ceiling  
-Balconies: skimmed and painted reinforced concrete slab soffits

**DOORS:**  
-In accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-External:  
-Polyester Powder coated glazed aluminium doors to detail.  
-Fire Escape Gates: Galvanised Metal Painted gates with panic ironmongery and self closers.  
-Fire Escape Doors: Polyester Powder coated glazed or louvre aluminium doors to detail; with panic hardware and self closers, including Vermin Proofing where required.  
-Internal:  
-Solid Core veneered doors for painting.  
-Lift Lobby: All lift doors to be 120min fire rated:  
-Fire Escape Doors: Class B fire doors (120min) on self-closers and panic ironmongery, with stainless steel kick plates  
-Cloakroom Doors: Solid core veneered doors with stainless steel kick plates, etc. in Powder coated aluminium frames  
-Dust Doors: Solid Core timber doors in Powder coated aluminium frames

**STAIRS:**  
-Stairs will be in accordance with Part M of SANS 10400-2011, Part S of SANS 10400-2011 & Part T of SANS 10400-2011  
-Reinforced concrete to structural engineers detail: Treads min. 250mm and risers max. 170mm. Clear width min. 1500mm. Balustrades 1000mm high.

**GLAZING:**  
-Glazing to be in accordance with part N of SANS 10400-2010.

**LIGHTING & VENTILATION:**  
-To be provided in accordance with Part O of SANS 10400-2011.  
-Minimum of 10% of floor area natural light  
-Minimum of 5% of floor area natural ventilation where applicable  
-Artificial lighting in accordance with Electrical Engineers specification.  
-Artificial ventilation in accordance with Mechanical Engineer and Rational Fire Engineers Specification.  
-Fire Escape stairs to be pressurized where applicable; and naturally ventilated where possible. Refer to Mechanical Engineer and Rational Fire Engineers Specification.

**FENESTRATION:**  
-Windows: Polyester Powder Coated Aluminium glazed windows to detail.  
-Shedfronts to Tenancies: Polyester Powder Coated Aluminium with non liquid laminated safety glass.

**DRAINAGE:**  
-To be constructed in accordance with Part P of SANS 10400-2010.  
-Drainage and water reticulation to Plumbing Engineers specifications and drawings.

**STORMWATER DISPOSAL:**  
-To be constructed in accordance with Part R of SANS 10400.  
-All stormwater to Civil Engineers specification.

**BALUSTRADES:**  
-Will comply with Part D SANS 10400-2011 Public Safety  
-1000mm high, from finished floor level in all instances; as annotated on the drawings  
-structural glass, concrete, or galvanised mild steel painted where indicated.

**FIRE PROTECTION & FIRE INSTALLATION:**  
-To be provided in accordance with Part T of SANS 10400-2011 & Part W of SANS 10400-2011.  
-In accordance with Rational Fire Engineers design; drawings; and Specification

**REFUSE DISPOSAL:**  
-To be provided in accordance with Part U of SANS 10400.

**FACILITIES FOR PERSONS WITH DISABILITIES:**  
-To be provided in accordance with Part S SANS 10400-2011.  
-In accordance with rational fire engineers fire consultant's specification. BY

# MIRA ARCHITECTS

PROJECT:  
**ERF 2869 RATHFELDER**

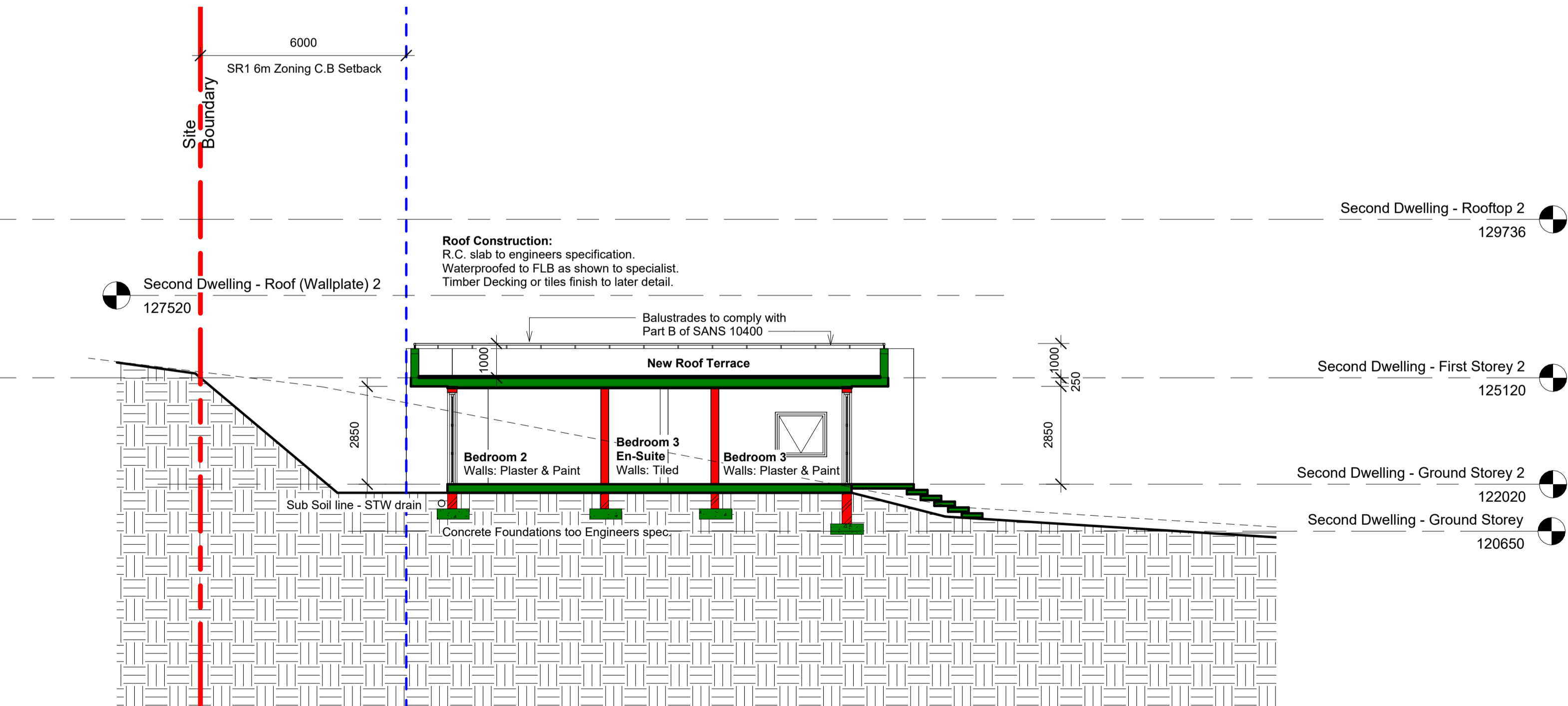
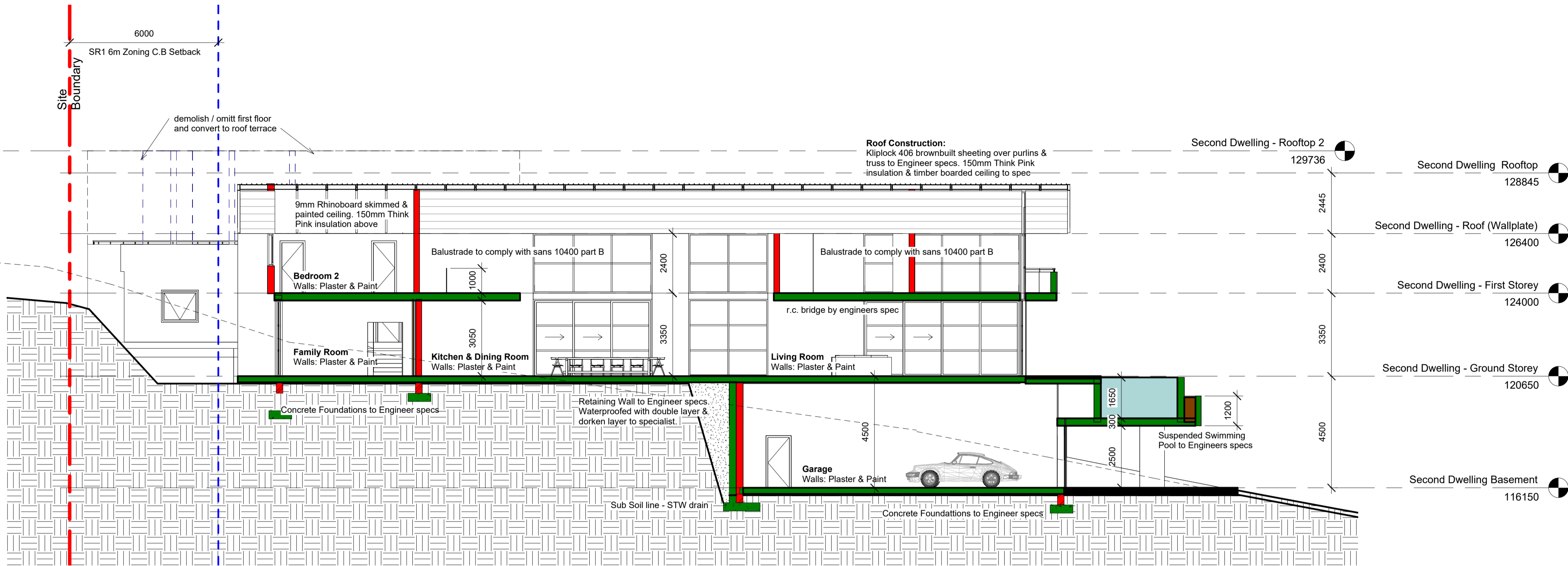
DRAWING:  
**Sections- Site A**

| PURPOSE OF ISSUE: |            |         |         |
|-------------------|------------|---------|---------|
| WORKING DRAWINGS  |            |         |         |
| SCALE             | 1 : 100    | DRAWN   | Author  |
| DATE              | 08/21/20   | CHECKED | Checker |
| DRAWING           | 0001 C_007 | REV     | B       |

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| Owner     |
| Signature |
| Date      |

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| Architect        |
| Signature        |
| Date             |
| Registration No. |

C\_001 Second Dwelling-  
Section1  
1: 100



C\_004 Second Dwelling-  
Section 2  
1: 100

