

DRAWING LIST

- 000 COVER PAGE
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- A03 FOOTING PLAN & ROOFING
- A05 SECTIONS
- A07 TRUSS
- A010 3D VIEW
- A252 DETAILS - DISTRIBUTION CHAMBER



PROJECT: NEW KOIL LPG STATION  
CLIENT : KOIL

KOIL NEW LPG	
CLIENT	KOIL
DRAWING TITLE: COVER PAGE	
DRAWN BY: Author	
DATE: 12/21/15	
SCALE:	
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CONSTRUCTION SPECIFICATION

ALL SETOUT AND CONSTRUCTION DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO STARTING ANY WORKS BY THE CONTRACTOR OR SUB-CONTRACTORS.

REFER ANY DISCREPENCIES TO ARCHITECT FOR RESOLUTION.

ROOF PLUMBING

GUTTERS

ZINCALUME FINISH STEEL EAVES GUTTERING. LYSAGHT 125 QUAD OR APPROVED EQUIVALENT. FIX GUTTER TO TIMBER FASCIA WITH MATCHING GUTTER BRACKETS.  
FALL GUTTER TO DOWNPIPES AT A MINIMUM GRADIENT OF 1 IN 400. TEST FALL OF GUTTER BY FILLING WITH WATER AND ENSURING WATER FULLY DRAINS TO DOWNPIPES.

INSTALL GUTTERS PRIOR TO FIXING ROOF SHEETING.

DO NOT USE PVC PIPE INSTEAD OF STEEL GUTTERING.

DOWNPIPES

100 DIA. UPVC - PAINT FINISH.

ROOFING

STANDARD CORRUGATED STEEL ROOFING - ZINCALUME ZINISH

FIX STEEL ROOFING TO TIMBER ROOFING BATTENS WITH GALVANISED ROOFING SCREWS

RIDGE AND BARGE CAPPINGS

FOLDED STEEL SHEET - ZINCALUME ZINISH

FIX CAPPINGS THROUGH STEEL ROOFING TO TIMBER ROOFING BATTENS WITH GALVANISED ROOFING SCREWS

RAINWATER TANKS

1000 LITRE POLYETHELENE RAINWATER TANK ON BLOCKWORK PLATFORM. PROVIDE ALUMINIUM MESH INSECT SCREEN AT INLET IN TOP OF TANK.

ROOF FRAMING

ALL TIMBER FRAMING SHOULD BE TERMITE TREATED AND COMPLY WITH AS 1684.

TIMBER TRUSSES AND RAFTERS

REFER TO SECTIONS AND DETAILS FOR TRUSSES/RAFTER DESIGN.

BE SURE TO INSTALL ALL BOTTOM CHORD TIES, ROOF BRACING AND TIES TO TOP PLATES.

CEILING BATTENS/NOGGINGS

NAIL FIX 50x50 CEILING BATTENS/NOGGINGS TO UNDERSIDE OF TIMBER TRUSSES AT 600 CENTRES MAX IN BOTH DIRECTIONS.

BLOCKWORK & CONCRETING

CONCRETE BLOCKS

390x190x190 CONCRETE BLOCKS LAID IN STRETCHER BOND.  
10mm FLUSH JOINTED MORTAR TO SPECIFICATION.  
RUN STRING LINE FOR ALL BLOCKWORK COURSES.  
DO NOT TOOL JOINTS.

CHECK DETAILS FOR INSTALLATION OF REINFORCING.  
BACKFILL HOLLOW BLOCKS WITH GROUT.

BLOCKWORK FINISH

FLUSH JOINTED MORTAR (DO NOT TOOL JOINTS).

MORTAR MIX

1:3  
CEMENT:SAND RATIO

GROUT MIX

DESIGN MIX TO CONFIRM TO A MINIMUM OF 20 MPa  
AGGREAGATE(10MM)  
USE AT LEAST 300KG OF CEMENT PER CUBIC METRE OF CONCRETE

USE AT LEAST 300KG OF CEMENT PER CUBIC METRE OF CONCRETE.

CONCRETE MIX

DESIGN MIX TO CONFIRM TO A MINIMUM OF 20 MPa  
AGGREAGATE(20MM)  
LAY CONCRETE SLAP OVER BLACK PLASTIC SHEETING, 50MM SAND  
BLINDING AND 150MM COMPACTED HARDCORE  
0.75:1:2:4  
WATER:CEMENT:SAND:AGGREGATE (20mm) RATIO

LAY CONCRETE SLAB OVER BLACK PLASTIC SHEETING, 50mm SAND  
BLINDING AND 150mm COMPACTED HARDCORE

REINFORCING

ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa

LININGS AND TRIM

CEILING LINING

1200X2400x6mm PLYWOOD SHEETS NAILED TO CEILING BATTENS AT 300 CENTRES IN CENTRE OF SHEET AND AT 150 CENTRES AT SHEET EDGES.

ARCHITRAVES, SKIRTINGS AND CORNICE TRIMS

42x12mm DRESSED PINE. PAINT FINISH.

EXTERNAL MATERIALS

BLWK  
BAGGED AND PAINTED CONCRETE BLOCKS

INTERNAL FINISHES

CONC  
CONCRETE FLOOR. BROOM FINISH.

FT  
SELECTED FLOOR TILE

WT  
SELECTED WALL TILE (UP TO 1200mm AT TOILET WET AREAS)

CT  
SELECTED FLOOR NON SLIP TILES AT TOILET WET AREAS

EXTERNAL PAINTING

WINDOW FRAMES AND FASCIA  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: TO BE SELECTED

INTERNAL PAINTING

INTERNAL WALLS AND CEILINGS  
1 COAT SEALER  
2 COATS WASH AND WEAR LOW SHEEN  
COLOUR: SELECTED WHITE

TRIMS (SKIRTINGS, ARCHITRAVES, INTERNAL DOORS & FRAMES)  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: SELECTED WHITE

WINDOW FRAMES  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: TO BE SELECTED

ONLY PREMIUM QUALITY PAINTS TO BE USED

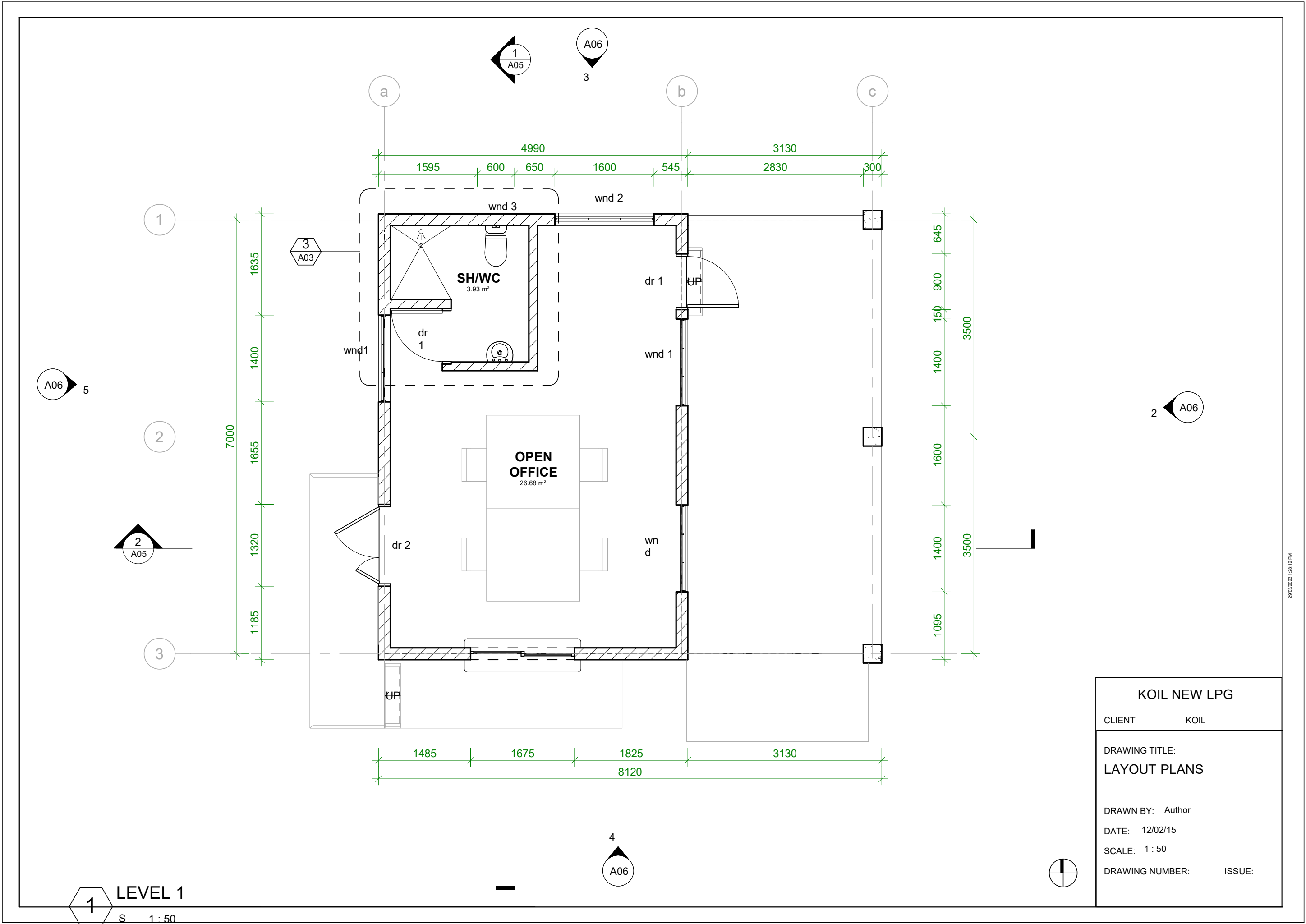


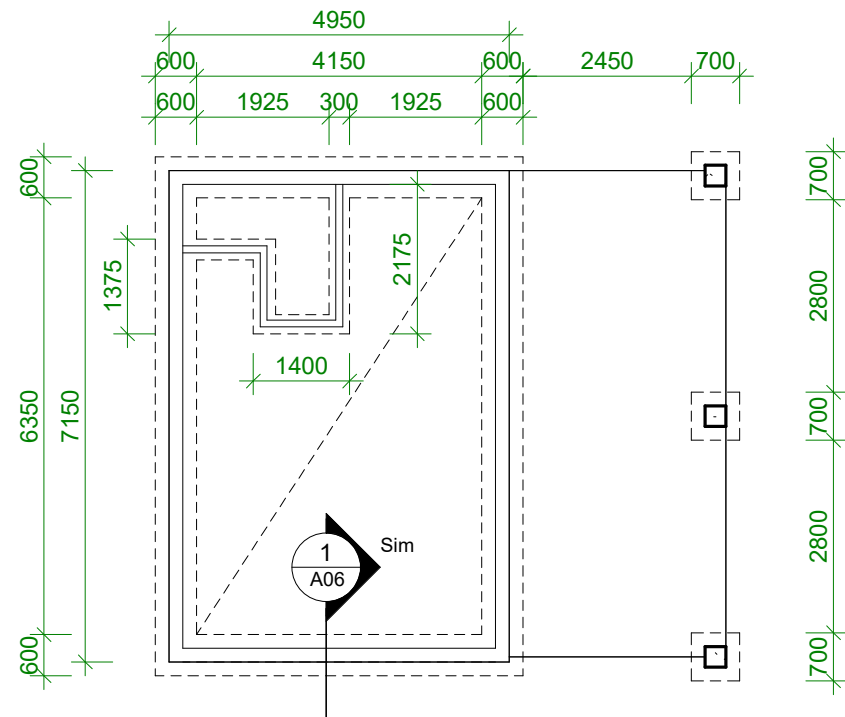
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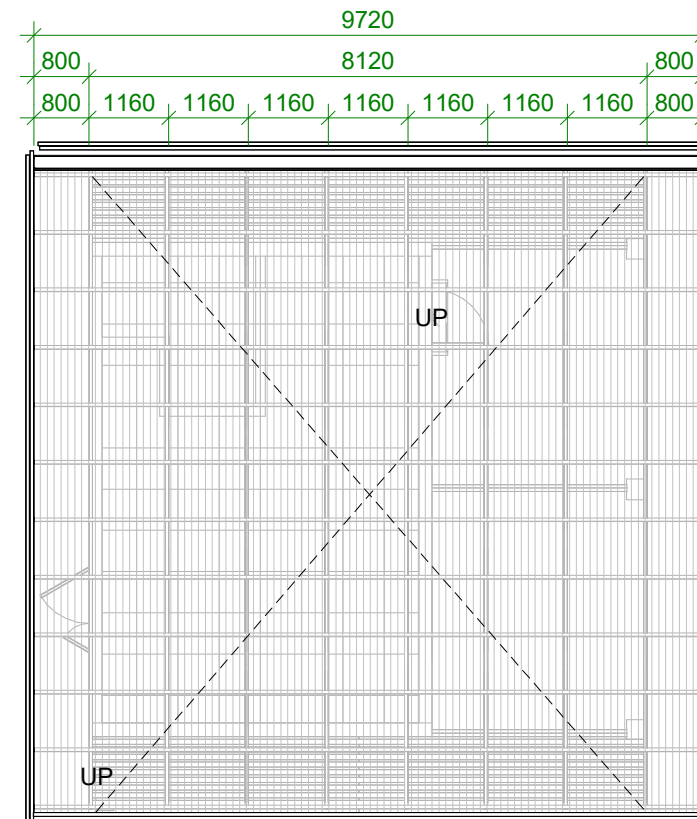
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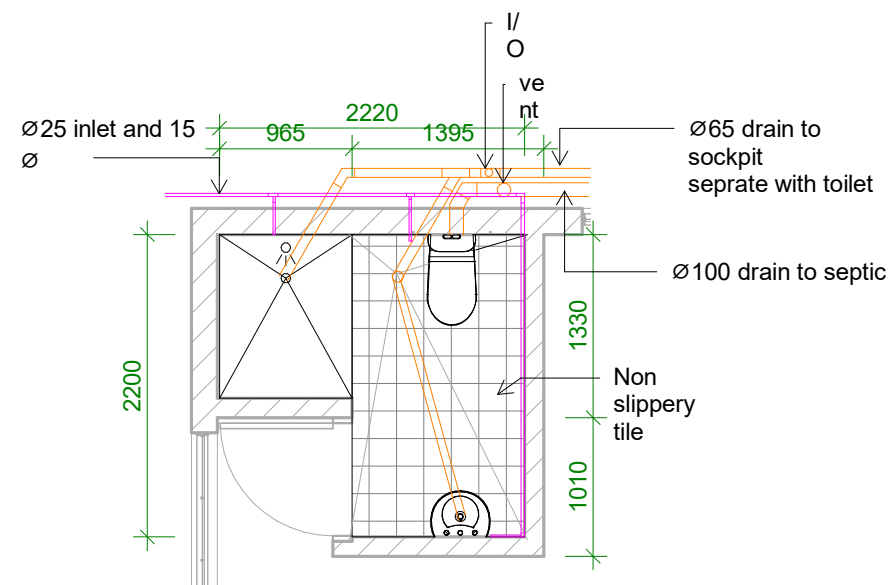




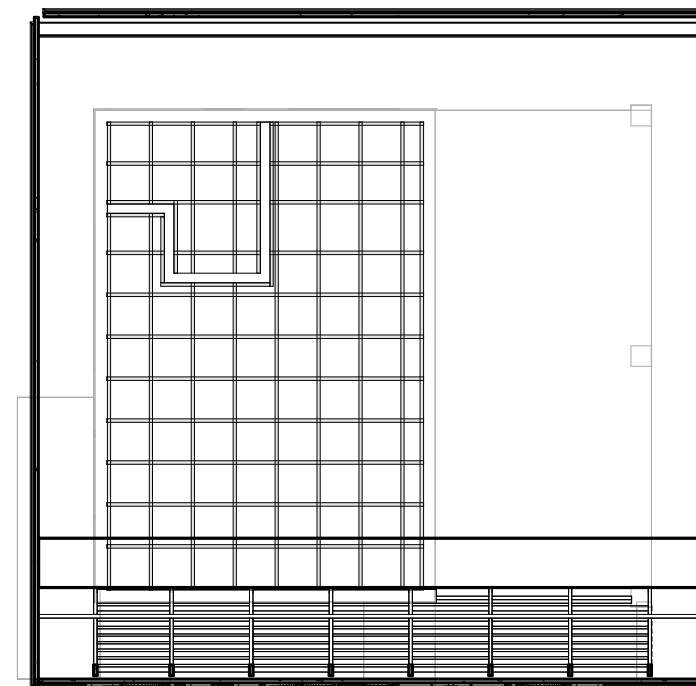
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S 1 : 100



2 ROOF  
S 1 : 100



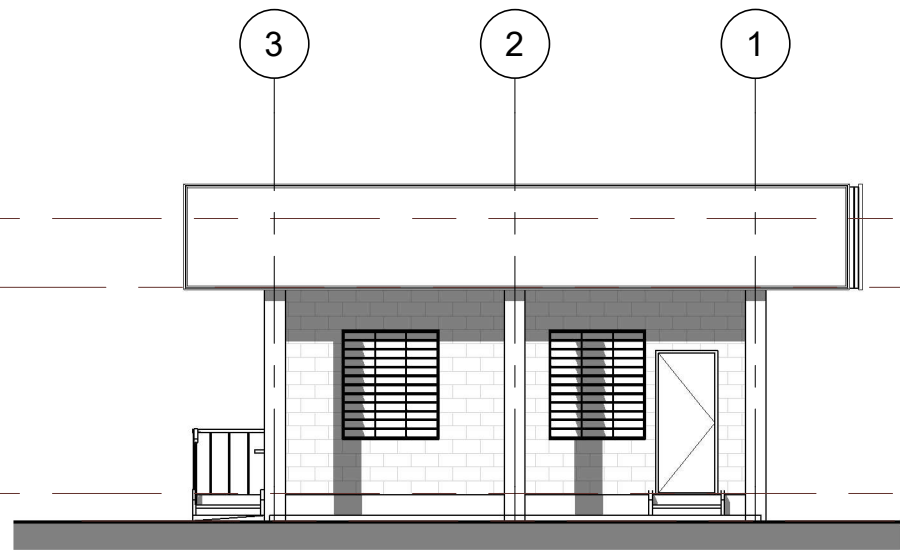
3 TOILET  
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4 CEILING  
S 1 : 100



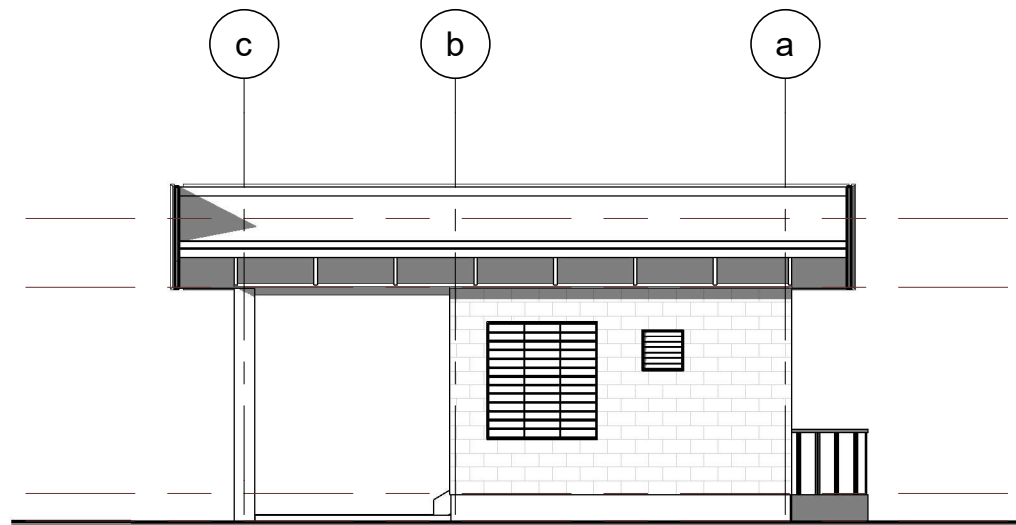
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DRAWN BY: Author	
DATE: 03/29/23	
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ROOF  
R 4.000  
CEILING  
R 3.000

LEVEL 1  
R 0.000  
GL  
R -0.400

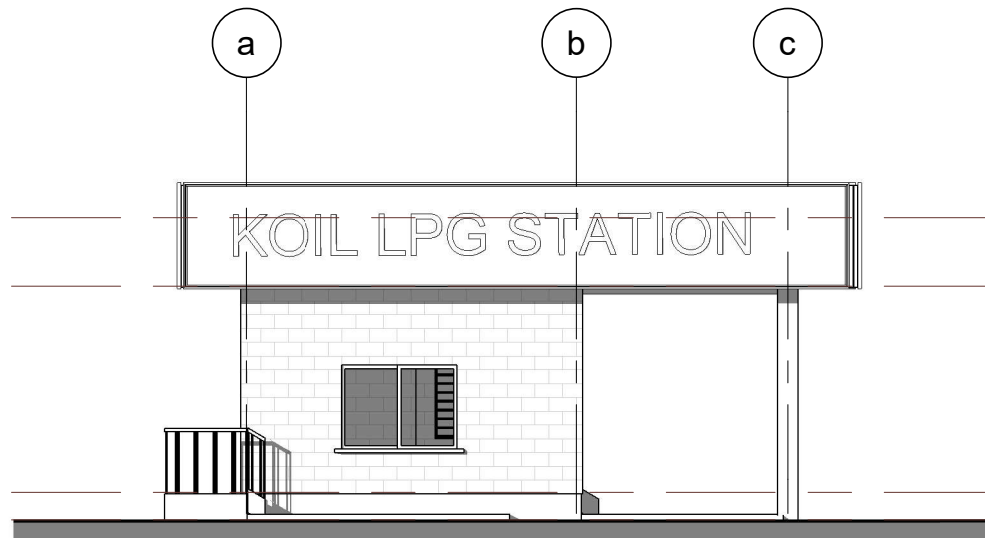
1 EAST  
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ROOF  
R 4.000  
CEILING  
R 3.000

LEVEL 1  
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GL  
R -0.400

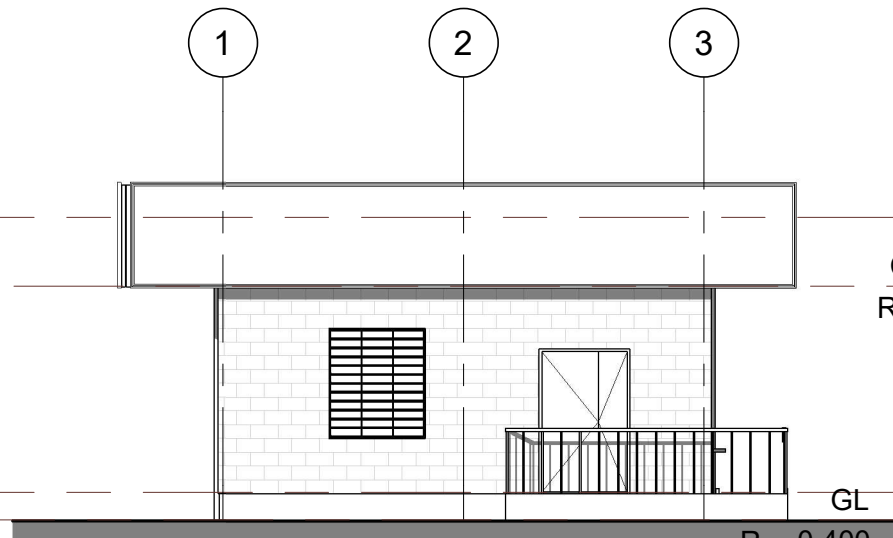
2 NORTH  
S 1 : 100



ROOF  
R 4.000  
CEILING  
R 3.000

LEVEL 1  
R 0.000  
GL  
R -0.400

3 SOUTH  
S 1 : 100



ROOF  
R 4.000  
CEILING  
R 3.000

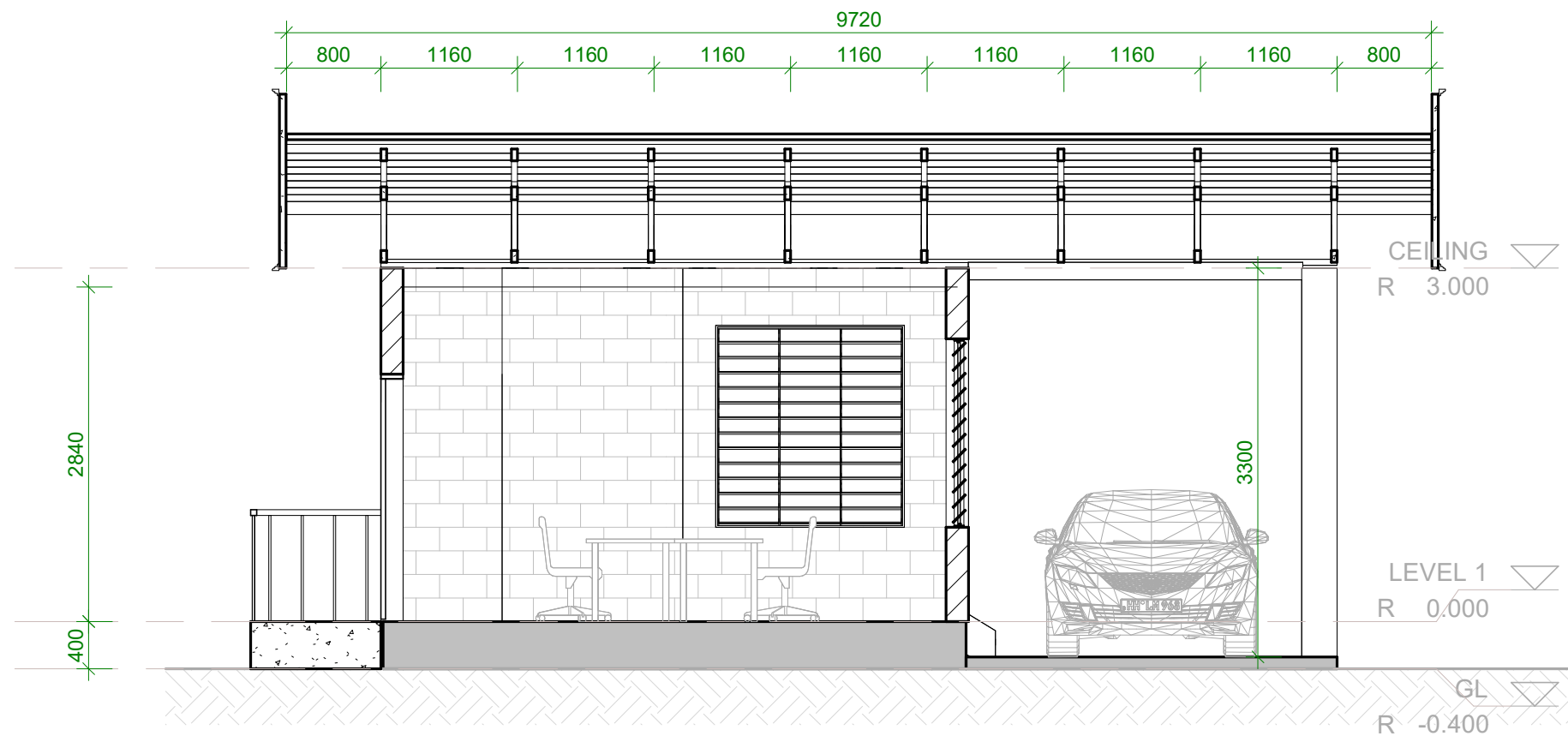
LEVEL 1  
R 0.000  
GL  
R -0.400

4 WEST  
S 1 : 100

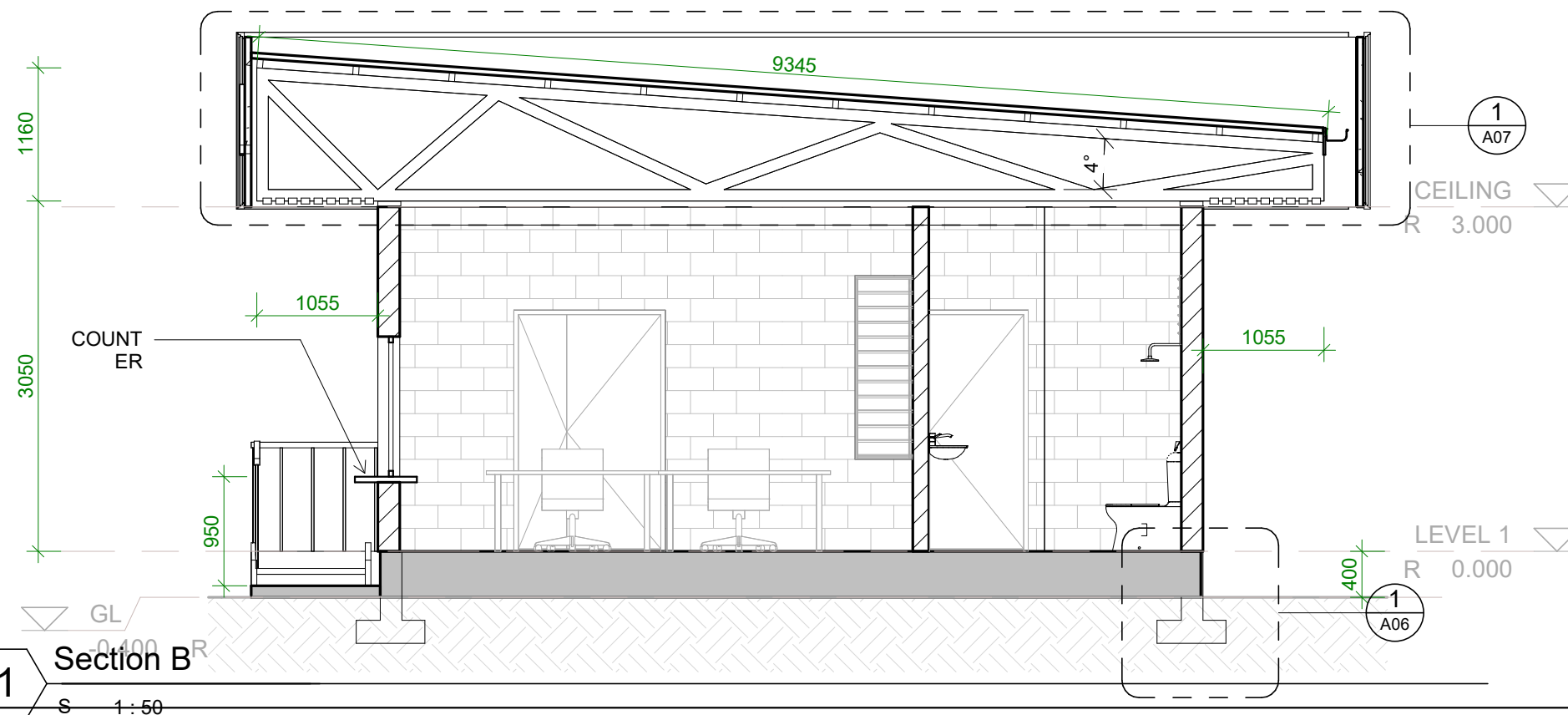


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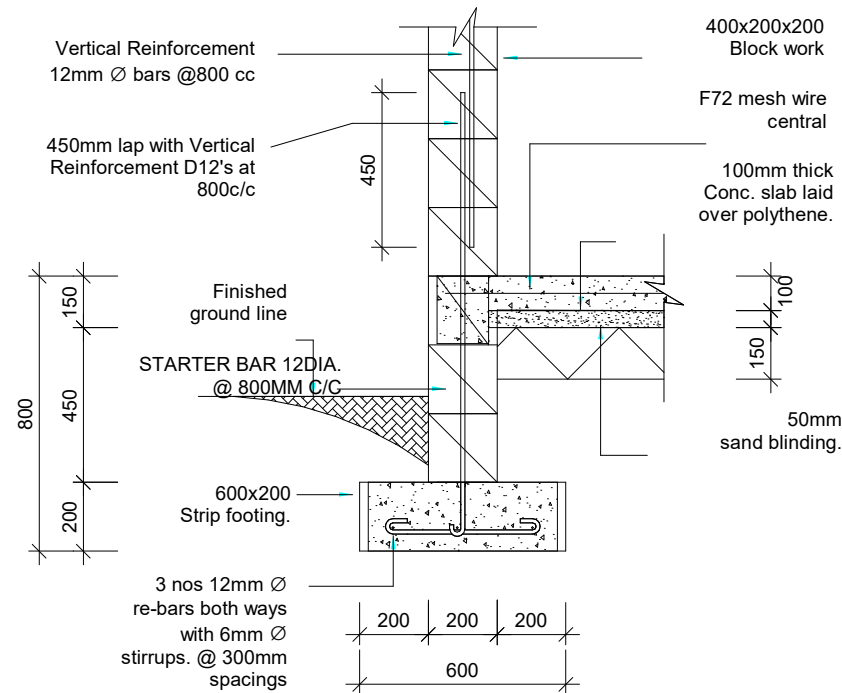


2 Section A  
S 1 : 50

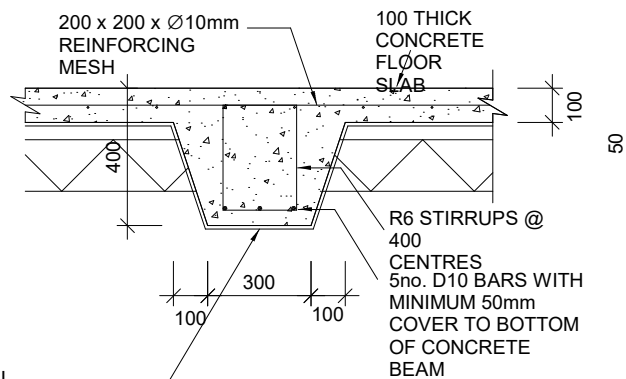


1 Section B  
S 1 : 50

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STRIP FOOTING DETAIL



FOOTING DETAIL B  
INTERNAL BEAM

ENSURE THAT ALL BEAMS ARE FOUNDED ON COMPACT NATURAL GROUND AND NOT FILL OR ORGANIC MATERIAL.

**FLOOR SLAB AND FOOTING NOTES**

1. THESE DETAILS SHALL ONLY BE USED FOR SINGLE STOREY BUILDINGS
2. ALL REINFORCING SHALL HAVE 50mm CONCRETE COVER.
3. INTERNAL BEAMS (DETAIL B) SHALL BE FORMED UNDER ALL INTERNAL BLOCKWORK WALLS & AT 4.0 METRE MINIMUM CENTRES (REFER TO TYPICAL SLAB LAYOUT & FOOTING PLAN).
4. EDGE AND INTERNAL BEAMS MUST SIT ON NATURAL GROUND (SAND AND CORAL). WHERE FILL OR ORGANIC MATERIAL IS FOUND THIS MUST BE REMOVED TO THE LEVEL OF THE NATURAL GROUND.
5. ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa

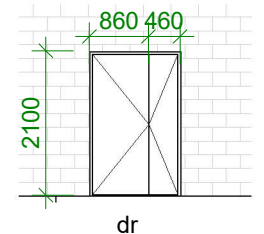
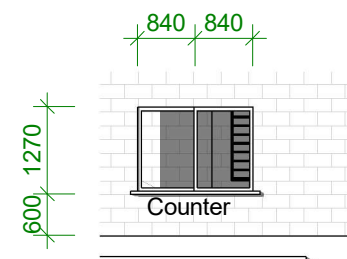
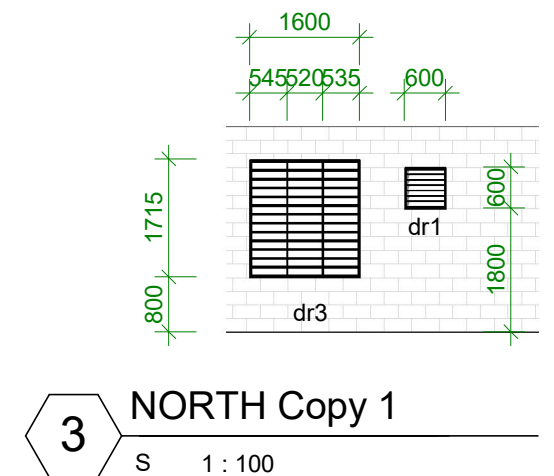
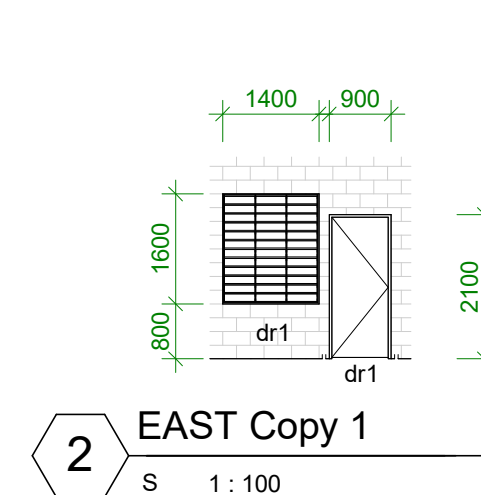
CONCRETE MIX 0.75 : 1 : 2 : 3  
WATER:CEMENT:SAND:20mm  
AGGREGATE

LAY CONCRETE SLAB OVER BLACK PLASTIC SHEETING

**CONCRETE STRIP FOOTING NOTES**

1. THESE DETAILS SHALL ONLY BE USED FOR SINGLE STOREY BUILDINGS
2. ALL REINFORCING SHALL HAVE 50mm CONCRETE COVER.
3. STRIP FOOTINGS MUST SIT ON NATURAL GROUND (SAND AND CORAL). WHERE FILL OR ORGANIC MATERIAL IS FOUND THIS MUST BE REMOVED TO THE LEVEL OF THE NATURAL GROUND.
4. ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa

CONCRETE MIX 0.75 : 1 : 2 : 3  
WATER:CEMENT:SAND:20mm  
AGGREGATE



**KOIL NEW LPG**

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**DETAILS**

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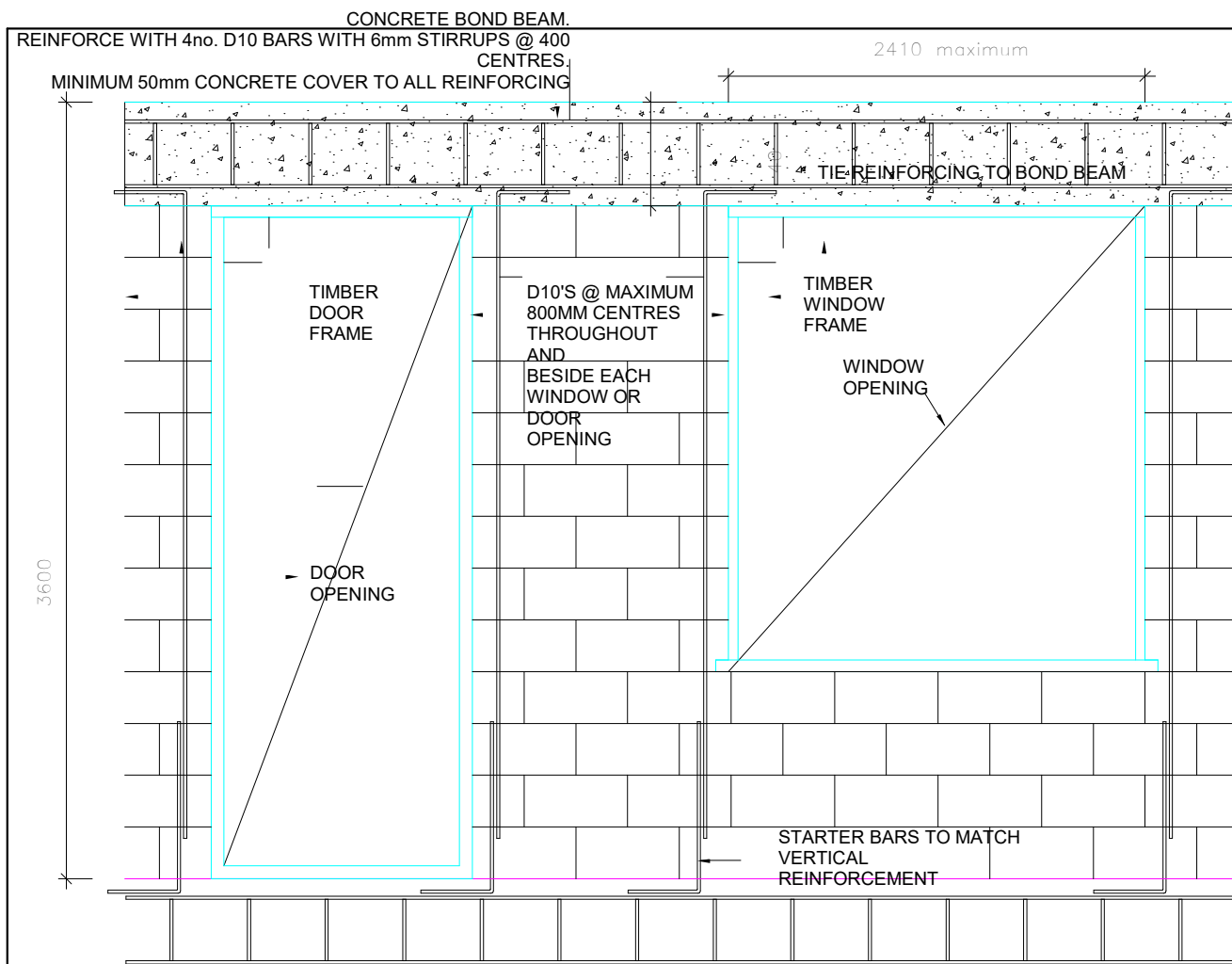
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TYPICAL BLOCKWORK WALL ELEVATION SHOWING

**REINFORCED BLOCKWORK WALL NOTES**

1. THESE DETAILS SHALL ONLY BE USED FOR SINGLE STOREY BUILDINGS
  2. ALL REINFORCING SHALL HAVE 50mm CONCRETE COVER.
  3. BACKFILL BLOCKWORK COMPLETELY WITH GROUT.
  4. ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa
- CONCRETE BLOCKS 390x190x190 CONCRETE BLOCKS LAID IN STRETCHER BOND. 10mm FLUSH JOINTED MORTAR TO SPECIFICATION. RUN STRING LINE FOR ALL BLOCKWORK COURSES.
- BACKFILL HOLLOW BLOCKS WITH GROUT TO SPECIFICATION.
- MORTAR MIX 1 : 3 CEMENT:SAND
- GROUT MIX 1 : 1 : 2 : 4 WATER:CEMENT:SAND:10mm AGGREGATE

DAMP PROOF COURSE ON TOP OF WINDOW HEAD AND TO FULL PERIMETER OF WINDOW FRAME

WINDOW JAMB

DAMP PROOF COURSE UNDER WINDOW SILL

TOP PLATE FIXED TO CONCRETE BOND BEAM WITH Ø12mm TREADED ROD WELDED OR TIED TO REINFORCING @ 1200 CENTRES R8 STIRRUPS @ 200MM CTRS

NOTE : 50MM COVER TO ALL STEEL REINFORCEMENT

D12 @800MM C/C VERTICAL REINFORCEMENT THROUGHOUT

FLOOR LEVEL

REFER TO DETAIL B4.1 OR B4.2 FOR FOOTING DETAILS

FLOOR LEVEL

**TYPICAL SECTION WINDOW / BLOCK WALL** SCALE-1:20

**TYPICAL SECTION BLOCKWORK WALL** SCALE-1:20

**1** Detail - Wall reinforcement

S 1 : 20

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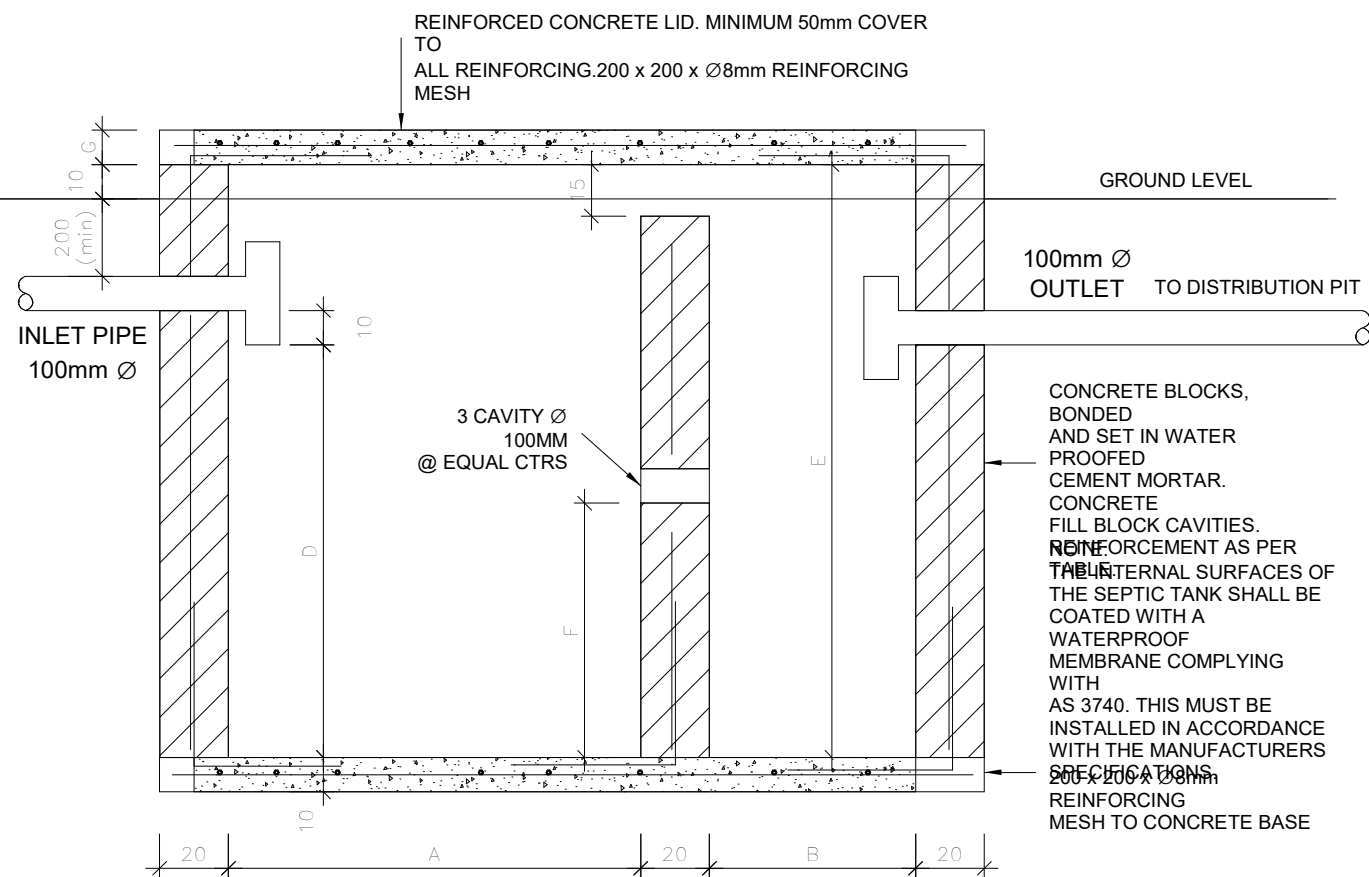
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**DETAILS - WALL REINFORCEMENT**

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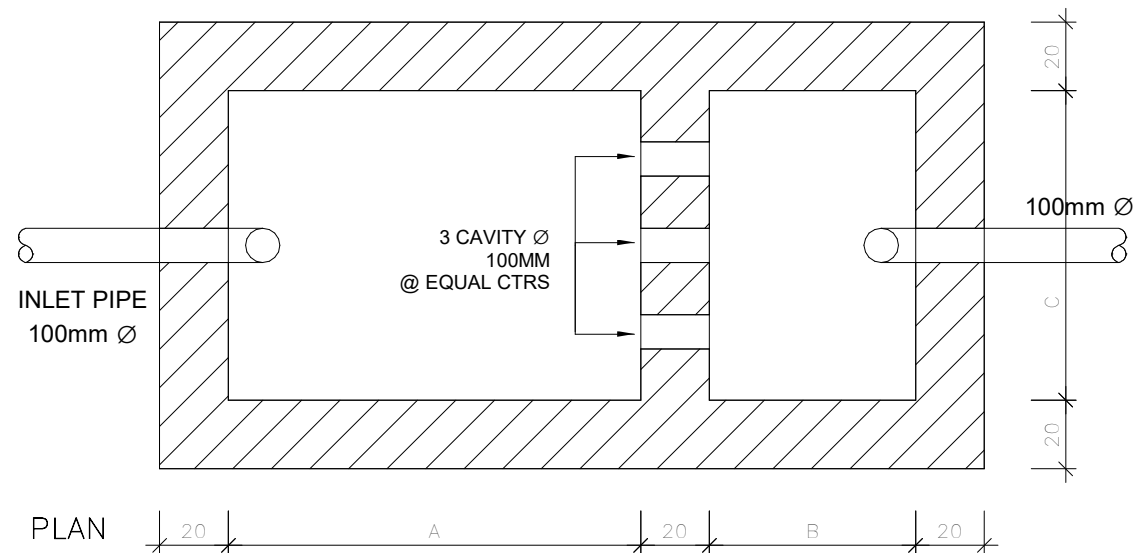
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SECTION



PLAN

SEPTIC

SEPTIC TANK SIZING TABLE

NO. OF USERS	DIMENSIONS IN MM							VOLUME kL (m3)	REINFORCEMENT	
	A	B	C	D	E	F	G		Vertical Bars	Horiz. Bars
10	1200	0600	0900	1200	1675	740	100	2.04	D12 @ 400	D12 @ 600
15	1370	0760	0900	1200	1675	740	100	2.38	D12 @ 400	D12 @ 600
25	1675	0900	1065	1370	1830	835	100	3.74	D16 @ 600	D12 @ 600
40	2130	1065	1200	1370	1830	825	100	5.35	D16 @ 600	D12 @ 600
60	2430	1200	1370	1370	1830	825	150	6.94	D16 @ 600	D12 @ 600
75	2590	1370	1525	1525	1980	900	150	9.21	D16 @ 400	D16 @ 600
100	3150	1525	1830	1525	1980	900	150	13.59	D16 @ 400	D16 @ 600
150	3660	1830	2730	1525	1980	900	150	17.84	D16 @ 400	D16 @ 600
200	3810	2730	2430	1525	1980	900	150	21.52	D16 @ 400	D16 @ 600

SIZES ARE BASED ON SEPTIC TANK BEING ONLY CONNECTED TO THE TOILET

SIZES AND REINFORCING CAN BE USED FOR EITHER REINFORCED CONCRETE OR REINFORCED CONCRETE BLOCKWORK

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DETAIL- SEPTIC

DRAWN BY: T.Titaake

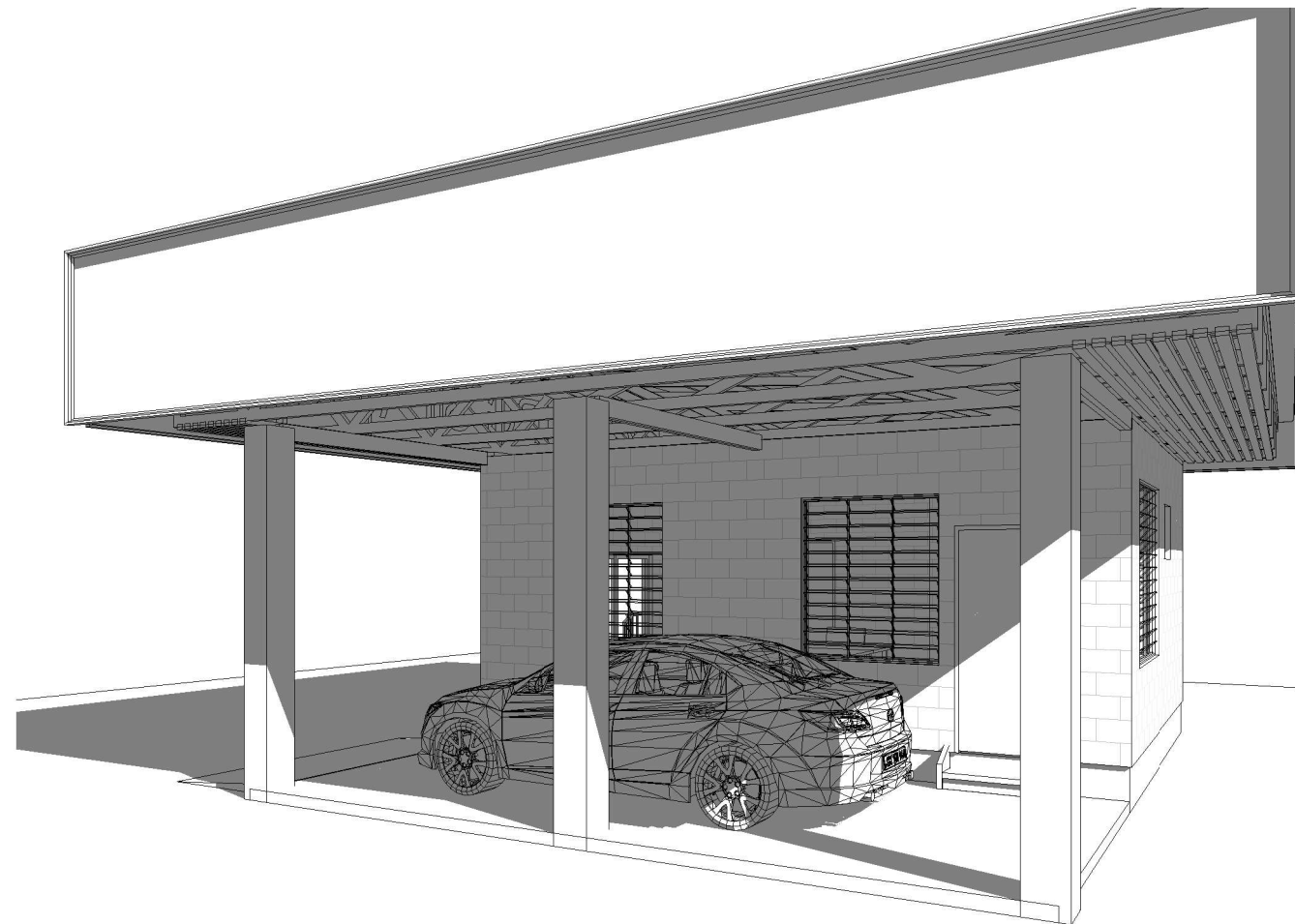
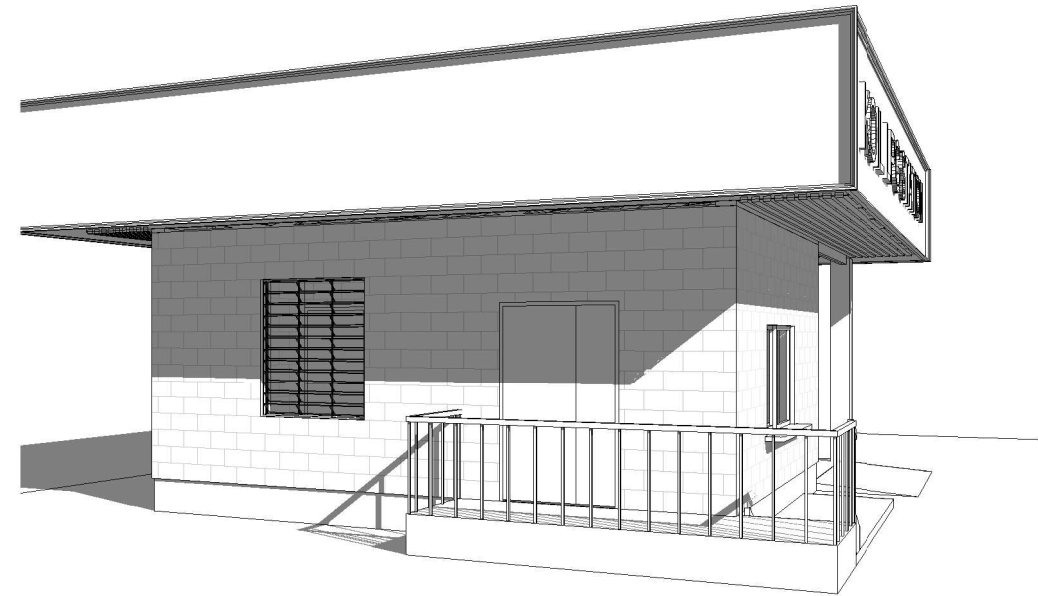
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1 Detail - Septic Tank

S 1 : 20



## KOIL NEW LPG

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DRAWING TITLE:  
**3D VIEW**

DRAWN BY:    tt

DATE:    18/03/23

SCALE:

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