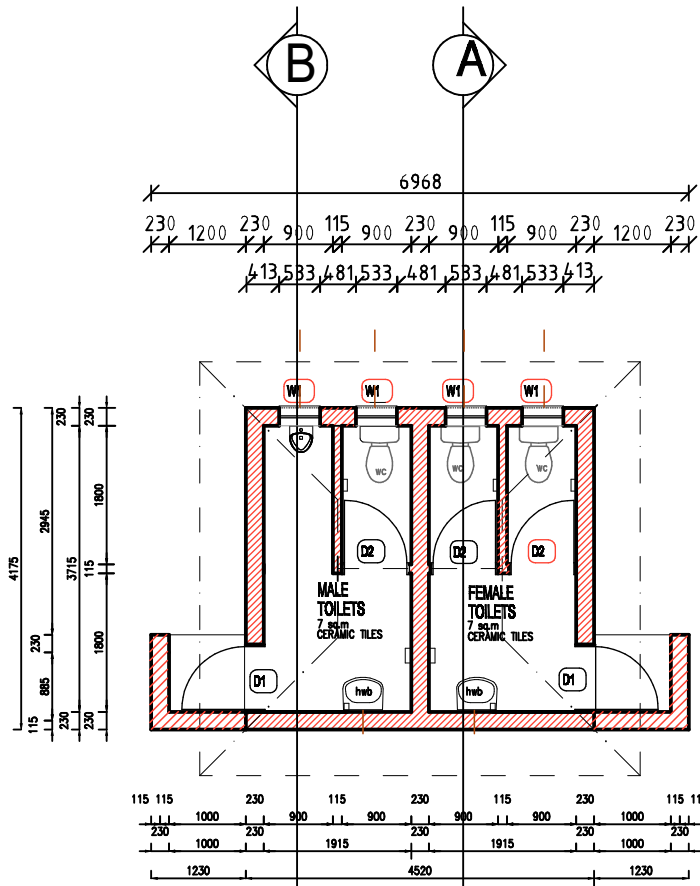
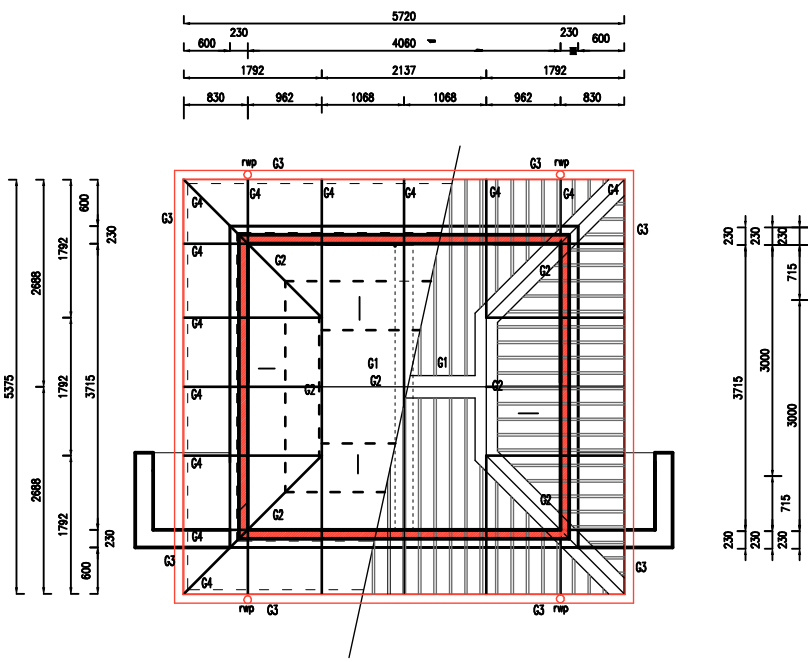
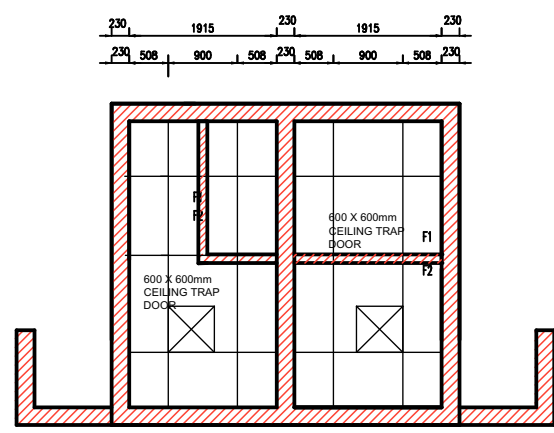




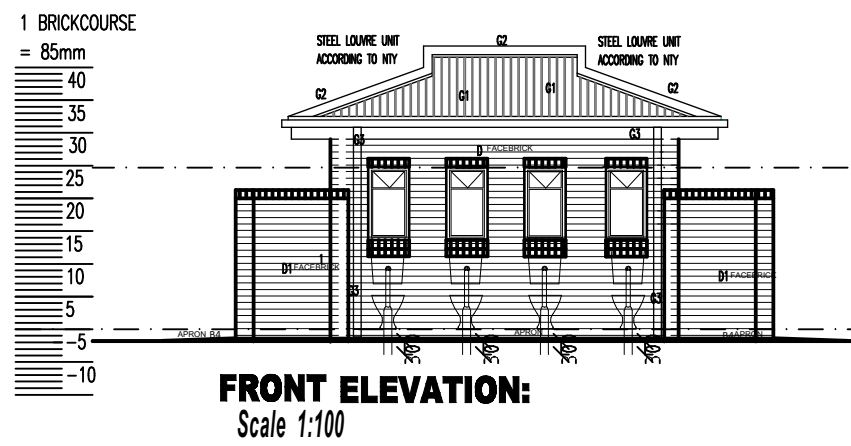
GROUND FLOOR PLAN:
MALE & FEMALE TOILETS:
WATERBORNE:
Scale 1:100



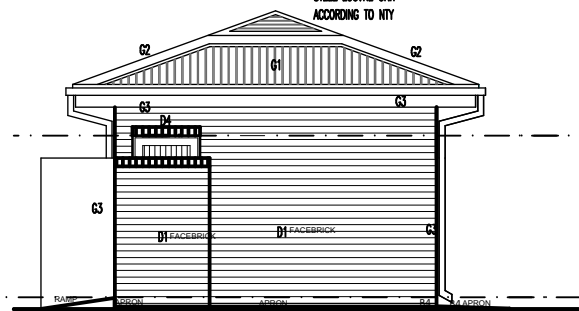
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MALE & FEMALE TOILETS:
WATERBORNE:
Scale 1:100



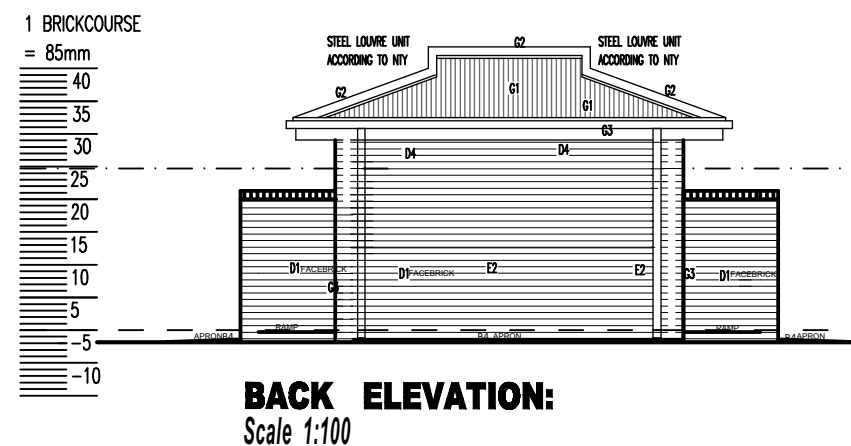
CEILING PLAN:
MALE & FEMALE TOILET
WATERBORNE:
Scale 1:100



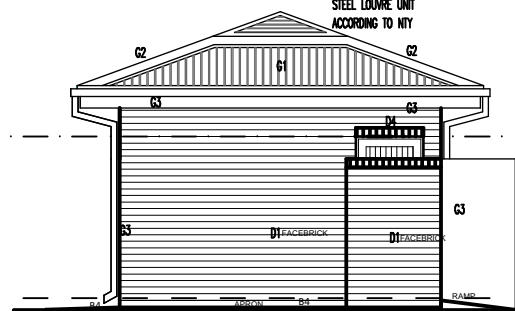
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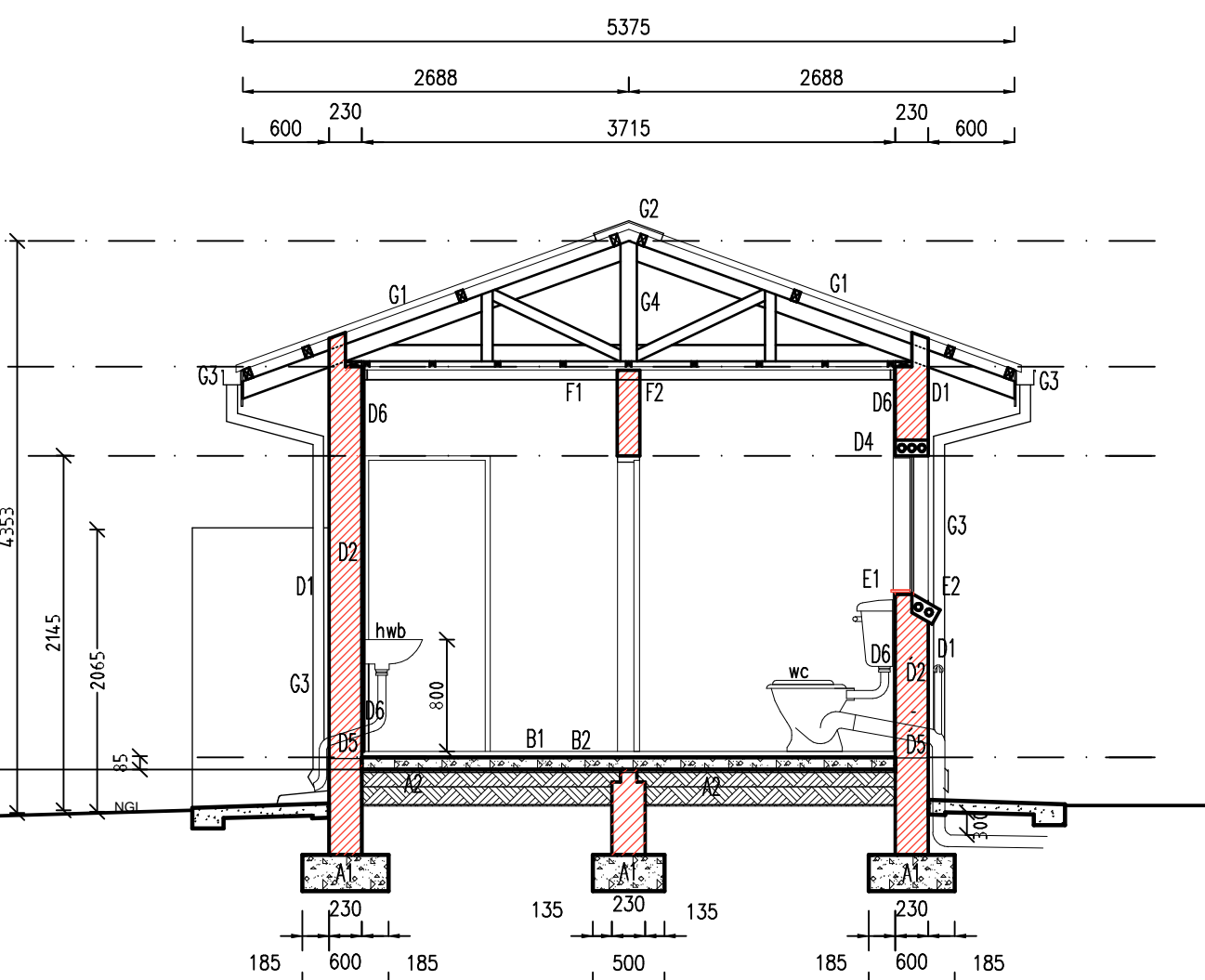
SIDE ELEVATION:
Scale 1:100



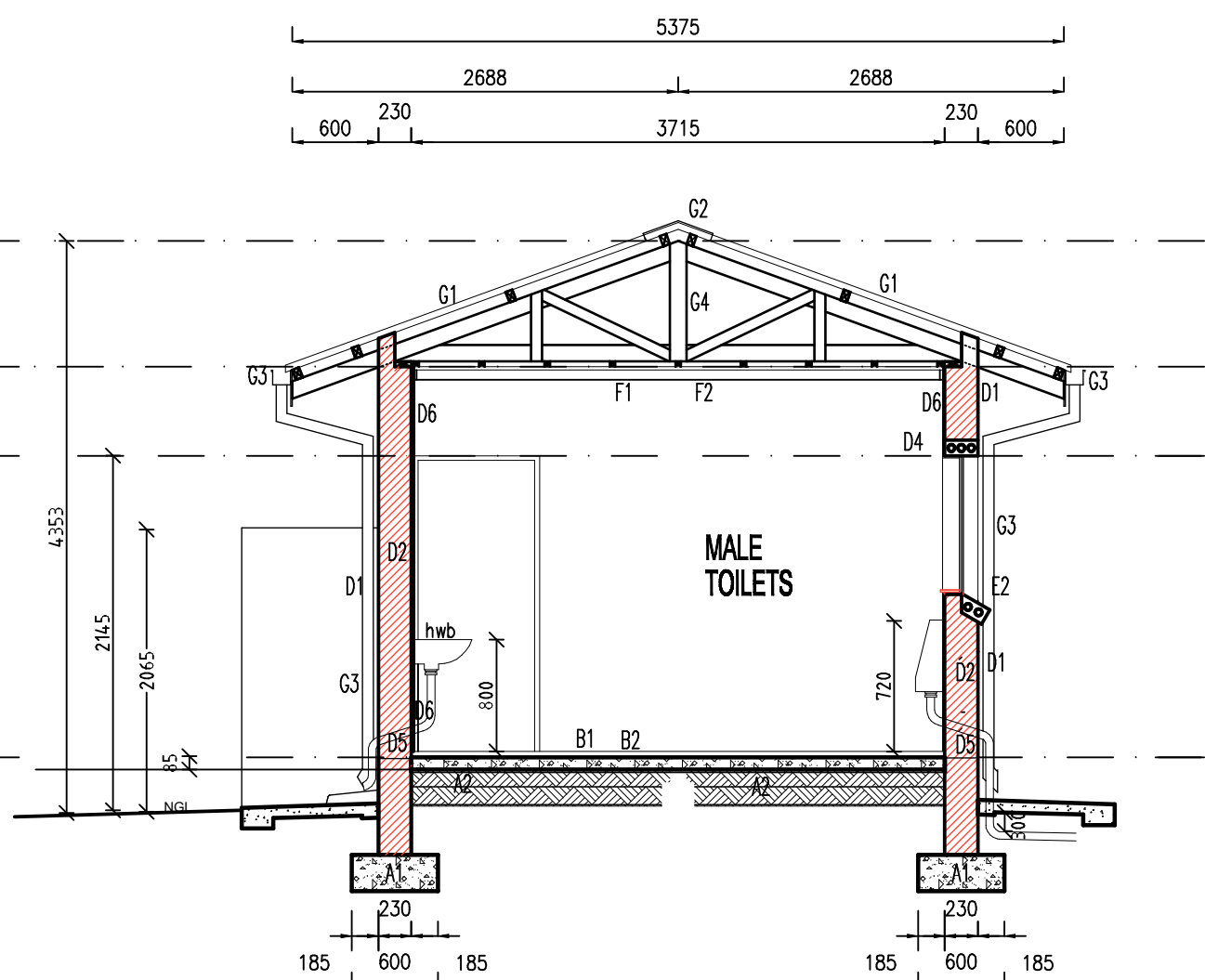
BACK ELEVATION:
Scale 1:100



SIDE ELEVATION:
Scale 1:100



SECTION A-A
SECTION OF ENVIRO-LOO
Scale 1:50



SECTION B-B
SECTION OF UNIRAL
Scale 1:50

SPECIFICATION FOR ENVIRO-LOO ABUTMENTS

Foundations

- A1 Concrete foundations – concrete foundations and steel reinforcement according to structural engineer's drawings. In general, strip foundations to be 500 x 250mm thick for half brick walls, 600 x 250mm thick for one brick walls and 900 x 250mm thick for two brick walls where skins are separated by 10mm thick bitumen impregnated soft board. Top of foundation to be 340mm minimum below low N.G.L. For Enviro loo pits, refer to detail drawings of foundation layout. Provide test cubes (1 per 12m³ or 1 per batch). Finished sides and bottoms of trenches to be treated with approved ant poison applied at a rate of not less than 5 litres of solu ton per m³ by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice D124. Concrete to be casted within 24 hours of application. Contractor to provide five-year guarantee on ant poison.
- A2 Backfilling and filling under floors – refer to structural engineer's drawings. In general, approved filling, compacted to at least 93% Mod. AASHO density in layers of maximum 150mm. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5, or G7 material or as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m³ filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with approved ant poison applied at a rate of not less than 5 litres of solution per m³ by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice D124. Concrete to be casted within 24 hours of application. Contractor to provide five-year guarantee on ant poison.

Surface beds and floors

- B1 Surface bed – concrete mix, thickness and reinforcement as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with saw cut joints with joints filled up with polyurethane sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete surface bed. Provide test cubes (1 per 15m³ or 1 per batch).
- B2 Provide two 75x10mm precast concrete apron underneath brickwork at outer wall above Enviroloo pit as per manufacturer's instruction.
- B3 Screed and floor finish-330x330x30mm union terracotta-330 (T545 330x330) ceramic floor tiles fixed with adhesive on 14 steel floated screed to maximum thickness of 30mm. Apply waterproofed grout, colour dark grey.
- B4 Apron- 1200mm wide 15MPa mass concrete apron with woodfloat finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building.
- B5 Rain water channels- 395 x 175mm High alled concrete type BP precast concrete rainwater channels in 935mm lengths with 230mm wide x 100mm deep segmental air waterway.

Skirtings

- C1 Steel floated galvanized skirting, 75mm high with rounded top edge

Walls and structure

- D1 External walls – Face bricks of approved face bricks in stretcher bond with 10mm wide 6mm deep square recessed joints to match existing and sample to be submitted to architect for approval.
- D2 Brickforce – Brickforce to 115 and 230mm foundation walls – every 2nd course. Superstructure walls – every 3rd course. Over openings formed in brickwork as per table below.
- | Clear or daylight span | Courses | Reinforcement |
|------------------------|---------|---|
| Not exceeding 1m | 4 | One row of 75mm brick reinforcement per course for each half brick width of soffit |
| Over 1m to 1.5m | 6 | Two |
| Over 1.5m to 2.5m | 7 | Three 6.3mm diameter mild steel rods per course for each half brick width of soffit |
| Over 2.5m to 3m | 8 | Four |

- D3 Lintol – Face brick-on-edge face brick lintol of approved face bricks over all window, door and clear openings with 10 x 6mm square recessed joints. Plastered internal openings to consist of 13.05mm Falcon prestressed precast concrete lintels (one per half brick skin)
- D4 DPC – SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills
- D5 Internal walls – One coat smooth 1.5 cement plaster finished off with one coat Placon plaster finished with one coat Placon plaster primer (UC36) and two coats placon vinyl walls & ceiling
- D6 Internal walls 150 x 150 x3mm first grade the africa WM-4 white matt glaze ceramic tiles in splash back above all hand wash basins, 450mm high fixed with adhesive to plaster backing and with white waterproof filling grout, provide clear silicone sealant at edges between tiles and hand wash basins
- D7 All exposed expansion joints in walls and floors to be filled with uncohen 200 polyurethane joint sealant after surfaces have been primed with uncohen 014 primer
- D8 Enviroloo pit walls and floors to be finished off with one coat smooth 1.5 cement plaster and two coats approved black epoxy paint

Window sills

- E1 External window sills – Face brick-on-edge sloping sill of approved face brick SLOPING AT 30° to match walls with 10 x 6mm square recessed joints on all exposed faces
- E2 Internal window sills – Ceramic tile window sills

Ceilings and cornices

- F1 Cornices – 19 x 76mm Meranti cornice nailed to wall at 400mm centres maximum. Internal cornice to be treated varnish as specified under skirtings. External cornices on walkways to be sand down to a smooth finish, stop with polyurethane filler, apply one coat Placon woodcare waterbased clear varnish exterior, thinned with 1:1 mineral turpentine (AZH1) and apply two finishing coats Placon woodcare waterbased clear varnish exterior semi-gloss varnish
- F2 Ceilings – 6mm Everite Nute-cement boards nailed to 38 x 38mm SAP brackling at 400mm centres maximum with galvanized clout nails. Provide 16 profile galvanized jointing strips, jointing strips to be pre-painted. Prime ceilings with one coat Placon Plaster Primer (UC36) and finish off with two coats Placon Super Acrylic Polym PVA paint. Colour: White (EP130). Provide 100mm thick Aerolite insulation on top of ceilings (internally only)
- F3 600 x 610mm trap door formed of 50 x 45mm SA pine related frame with 38 x 38mm SA pine cross bracker covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses

Roof and fascias

- G1 Roof sheeting – 0.5mm galvanized steel 2275 Global Roofing Solutions Kip – The roof sheeting with Chromadek finish (colour Traffic Green) on one side and Pebble Grey backing coat on other side on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee
- G2 Ridge and hip flashings – 0.58mm galvanized sheet iron standard factory manufactured FK3 ridge or hip flashing with Chromadek finish (colour Traffic Green)
- G3 Barge flashing over barge boards at eaves – 0.58mm galvanized sheet iron standard factory manufactured FK3 barge or gable flashing with Chromadek finish (colour Traffic Green)
- G4 Flashings at bottom of louvers – 0.58mm galvanized sheet iron standard factory manufactured FK3 headwall flashing and FK7 counter flashing with Chromadek finish (colour Traffic Green)
- G5 Valley flashings – 0.58mm galvanized sheet iron valley flashing, 550mm girth, with Chromadek finish (colour Traffic Green)
- G6 0.58mm Galvanized sheet iron pipe flashing with Chromadek finish, 600mm girth around ventilation pipes (colour Traffic Green)
- G7 Fascia boards – 10 x 225mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with countersunk brass screws. Barge boards – 200 x 80mm Everite sockless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascia and barge boards with one coat Placon Plaster Primer (UB56) and finish off with two coats Placon Super Acrylic Polym PVA paint. Colour as per architect

- G8 Truss system – Mitek or other approved patent timber pre-fabricated truss system at maximum 1200mm centres with 20 degrees pitch, 50 x 76mm SAP purlins at maximum 1200mm centres, 38 x 114mm SAP wall plate to be carbolinum treated before being. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolinum treated before being in position. Trusses to be secured to walls with 4 mm diameter galvanized steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanized steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth and treated with two coats carbolinum (alternatively, exposed parts may be painted – refer to architect's details)
- G9 Gutters – 100 x 100mm high seamless gutters formed of 0.58mm galvanized sheet iron with Chromadek finish (colour as per school). All brackets, etc. to be pre-coated with Chromadek to match colour of gutters
- G10 Downpipes – 100mm Diameter downpipes formed of 0.58mm galvanized sheet iron with Chromadek finish (colour as per school). All holderbars, brackets, etc. to be pre-coated to match colour of downpipes
- G11 Triangular shaped (on elevation) residential section steel louvered epoxy powder coated (colour Traffic Green to match roof sheeting) ventilator filled in with type LC feed horizontal louvre blades fixed to surround and covered at back with No 256 galvanized mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on

Fittings

- H1 19mm diameter chromium plated towel rail, 600mm long with buchel 83703 end brackets plugged to wall
- H2 130x135x360mm buchel 83761 three-tier stainless steel lockable tissue dispenser plugged to wall
- H3 Buchel 83726 type STRX618 soap dispenser, plugged
- H4 Kimberly-Clark "Tuffler" code SA422006 dispenser bin plugged
- H5 6mm silvered float glass copper backed mirror with bevelled edges and fixed to walls with chromium plated dome capped mirror screws with rubber buffers above tiling at all hand wash basins
- H6 Chairman industries DL2 stainless steel grab rail plugged to wall
- H7 Chairman industries SR2 stainless steel rear grab rail plugged to wall

Sanitary fittings

- I1 Enviroloo system model BP1040 standard including toilet pan, seat, lid, 500mm outlet ventilation pipe, etc, setup complete
- I2 Enviroloo urinal evaporative tank system including urinal, piping to evaporative system, 350mm long outlet ventilation pipe, etc, setup complete
- I3 650x600mm VAA tuscan (code 7101) wash hand basin with taphole, fitted on tuscan (code 7157) floor mounted pedestal, with 32mm cobra watertech 345-50 bottle trap, 32mm cobra watertech 308 unslotted waste, 15mm cobra watertech 211-15CP star shower action pillar tap and cobra watertech 232-350 angle regulating valve with 350mm long flex-tube service pipe
- I4 All waste piping to be 50mm SABS approved UPVC waste pipes. All main water pipes to be minimum 22mm class O copper pipes. Copper pipes to reduce to 15mm only at angle regulating valves and taps.
- I5 610x500mm VAA tuscan (code 7107), wash hand basin with one taphole fitted on tuscan (code 7157) not used in parallel toilet, with 32mm cobra watertech 345-50 bottle trap, 32mm cobra watertech 308 unslotted waste, 15mm cobra watertech 211-15CP star shower action pillar tap and cobra watertech 232-350 angle regulating valve with 350mm long flex-tube service pipe

Installation and directional signage

- J5 150 x 150mm Union S550666-06SE10 stainless steel pictogram engraved with a male sign
- J6 150 x 150mm Union S550666-06SE11 stainless steel pictogram engraved with a female sign
- J9 150 x 150mm Union S550666-06SE11 stainless steel pictogram engraved with a disabled sign

Sanitary plumbing and fittings

General notes on internal plumbing and sanitary installation:

All waste piping to be 50mm SABS approved uPVC waste pipes. All main water pipes to be minimum 22mm Class O copper pipes. Copper pipes to reduce to 15mm only at angle regulating valves and taps. All exposed uPVC or copper pipes to be primed with "Placon Multi-Surface Primer (WUP1) and finished off with two coats "Placon Wall & All (WAA) acrylic emulsion sheen paint – colour to match door schedule

Door schedule

D1 (External doors)	
Door	40mm Meranti framed batten door (Exposure Class 1), 813 x 2032mm high with 40 x 150mm top rail and sills, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm thick V-jointed one side boarding and covered at back with 4mm plywood with veneer to match door, let into and including rebates all round. Provide 3 x 25mm brass water bar
Frame	1.2mm Single rebated pressed steel door frame suitable for one brick walls and door 813 x 2032mm high
Door finish	Sand down to a smooth finish, stain with Placon Woodcare Stain (W-range) (colour meranti) and apply three coats Placon Woodcare Wood Preservative (FPL3)
Frame finish	Apply one coat Placon Metakare Metal WB Primer (MWPF1) and two coats Placon Super Universal Enamel (TSE Tint Bases) gloss enamel paint - colour to architect
Door ironmongery	ASSA RH99 2261 7655 4-lever upright mortice lock, one pair Waterbok AL6W45-2445 handles on 178 x 45mm backplate, 9002AS door stop, 7836SC slide channel door closer

D2 (External door disabled toilet)

Door	40mm Meranti framed batten door 914 x 2032mm high with 40 x 150mm top rail and sills, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm thick V-jointed one side boarding and covered at back with 4mm plywood with veneer to match door, let into and including rebates all round. Door fitted with standard trailer weather guard. Provide 3 x 25mm brass water bar
Frame	1.2mm Single rebated pressed steel door frame suitable for one brick walls and door 914 x 2032mm high
Door finish	Sand down to a smooth finish, stain with Placon Woodcare Stain (W-range) (colour meranti) and apply three coats Placon Woodcare Wood Preservative (FPL3)
Frame finish	Apply one coat Placon Metakare Metal WB Primer (MWPF1) and two coats Placon Super Universal Enamel (TSE Tint Bases) gloss enamel paint - colour to architect
Door ironmongery	ASSA RH99 2261 7655 4-lever upright mortice lock, one pair Waterbok AL6W45-2445 handles on 178 x 45mm backplate, 9002AS door stop, 7836SC slide channel door closer, 2 x 600 x 800mm AL5086-600W kickplates

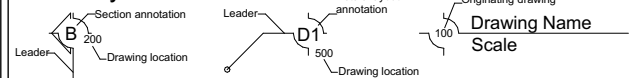
D3 (Internal doors)

Door	40mm Semi-solid doors 813 x 2032mm high with concealed hardwood edges and with 3mm standard hardwood covering on both sides
Frame	1.2mm Single rebated pressed steel door frame suitable for half brick walls and door 813 x 2032mm high
Door finish	Sand down to a smooth finish, apply one coat Placon Wood Primer and two coats Placon Water Based Velvego (TVB Tint Bases) satin enamel paint - colour to architect
Frame finish	Apply one coat Placon Metakare Metal WB Primer (MWPF1) and two coats Placon Super Universal Enamel (TSE Tint Bases) gloss enamel paint - colour to architect
Door ironmongery	ASSA Alloy 21314-7655 Bathroom/WC deadlock, AL8254AS morticed Bathroom/WC indicator bolt, AL5086-60AS push plate, AL8272AS hat and coat hook, AL5066-06AS push plate, AL8272AS hat and coat hook

Window schedule

W1	
Window	Standard residential steel window type NCF, 533 x 948mm high with 12 x 12mm solid burglar bars to all sashes at 150mm centres
Ironmongery	Standard as per supplier
Finish	Apply one coat Placon Metakare Metal WB Primer (MWPF1) and two coats Placon Super Universal Enamel (TSE Tint Bases) gloss enamel paint - colour to architect
Glazing	6.38mm Laminated obscure safety glass

Detail Symbols



Revisions During Construction

Rev #	Issue Date	Revision description:	Sign:
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Issued for:

Information	Construction	X
Tender - Contract	Client Approval	
Measurement	Municipal Approval	

Revisions Prior to Construction

Rev #	Issue Date	Revision description:	Sign:
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Contractor to verify all levels, heights & dimensions on site prior to commencement of work.

Large scale drawings enjoy preference over small scale drawings.

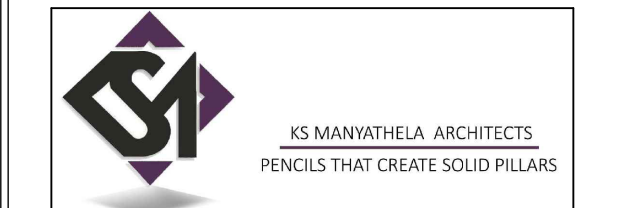
Do not scale drawings.

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Implicant Agent:



Principal agent:



Hampton court
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Tel: (015) 296 4570
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E-mail: info@prism-arch.co.za

Project Title: **PROPOSED :
RAMPHELANE SECONDARY SCHOOL-
ADDITION AND ALTERATIONS**

Site information:
**IDT - RAMPHELANE SECONDARY
SCHOOL**

Project Architect:
Sam Manyathela

Project Co-ordinator/Manager:
Khathu Mahuwa

Project Architectural Technician:
Ndivhuwo Malena

Drawing Title:
**TEACHERS : 3 SEATER
ABLUTIONS**

Project number: K050-D	Drawing number: 100D	Project Stage: Construct	Drawing Revision: 1
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Scale: AS SHOWN	Drawn: NB	Checked: KM
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Last issue date:	Latest issue date: 2021.08.06
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