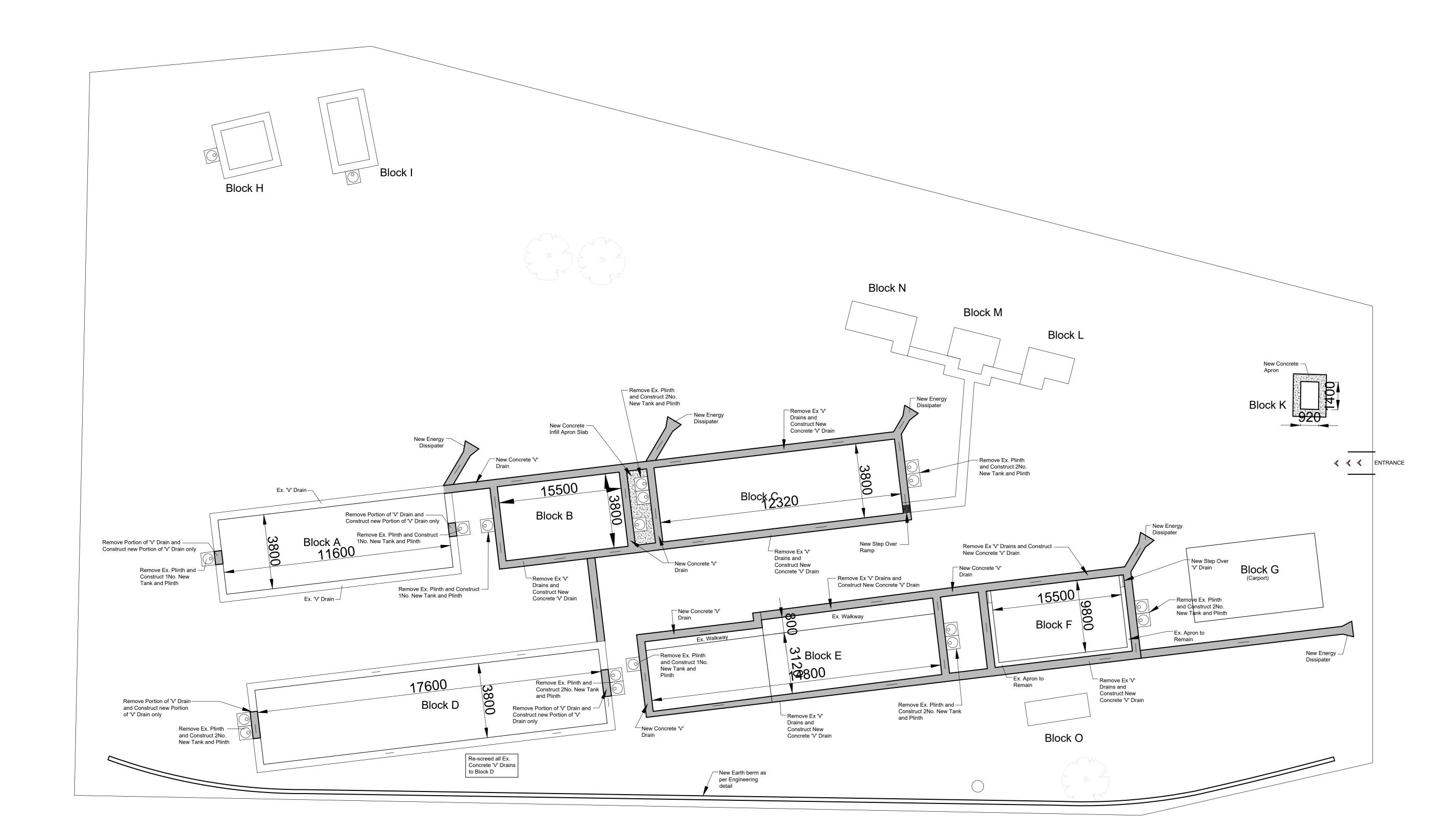
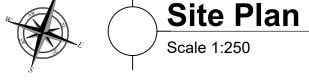
BUILDING NO.	DESCRIPTION
Α	4 Classroom Block (30.8m x 9.6m)
В	2 Room admin block (15.5m x 9.6m)
С	4 Classroom block (29m x 9.6m)
D	3 Classroom block (44m x 9.6m)
E	5 Classroom block (37m x 9.6m)
F	Admin block (15.5m x 9.1m)
G	Car port (17.5m x 9.1m)
Н	Ablution (5.5m x 5.1m)
	Ablution (8m x 4)
J	Ablution (3.6m x 5.9m)
K	Guard house (3.5m x 2.3m)
L	Ablution (5.5m x 3.7m)
М	Ablution (6.9m x 3.7m)
N	Ablution (10.2m x 3.7m)
Ο	kitchen Container (2.6m x 6.0m)

CO-ORDINATES: LATITUDE : 28° 19' 43.40"S LONGITUDE: 30° 54' 14.73"E







GENERAL NOTES:

discrepancies, errors, omissions, etc. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless

otherwise stated. . All levels to be checked on site before any work commences.

All reinforced concrete work to be strictly in accordance with structural engineers detail and

Damproof course to comply with S.A.N.S. 10-400 requirements. 6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.

Workmanship is to be of the highest standard through-out.

8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period. The contractor is responsible for the correct setting out of all works, particularly boundaries,

building lines servitude's, etc. 0. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.

. All materials to be used in strict accordance to manufacturers specification 12. Soil poisoning to be used under all new concrete work and new water tank stands. 13. Screed to be applied as directed, to Engineers detail.

14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site. 15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices),

and to match existing where applicable. 5. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.

Y. Soil Poisoning to be applied where specified, for all new work and existing where applicable, to manufacturer's specification and to Engineers detail.

- All STRUCTURAL, CIVIL and ELECTRICAL work to professional Engineers - All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS details to take preference over structural, civil & electrical details indicated on this drawing.

GENERAL SPECIFICATION /CONSTRUCTION NOTES:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides. (Colour on top: to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge

Aluminum flashing and paint on waterproofing membrane or similar approved to be installed and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside). Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge and eave purlins, fixing to be safety glass. Putty to be painted to match window frame, colour to be confirmed on site. at every crown.Purlins spaced as per manufacturers specifications, on engineered timber trusses (or

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max.

GLAZING PANELS: 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses

New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' interlocking roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site DOORS: where matching existing. (Colour on top: to be confirmed and factory standard grey to underside) Sheets shall be fixed to every purlin using galvanized steel "KL700" clips. "KL700" clips to be meranti hardwood, internal doors to be hollow core. fixed to purlins using the appropriate self drilling / tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled with care, no scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be the rate of between 5.5m² and 6.5m² per litre, depending on the sub-floor porosity, laid on removed off site immediately. Sheeting to be installed by manufacturer approved installer, Manufacturer screed to fall, made with waterproof admixture. to inspect sheeting after installation and supply certification.

Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends.

Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses. Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates.

-Hurricane clips to be used at all purlin/ truss nodes, and to be doubled at eave and ridge purlins (diagonally), as directed on site. - Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation

sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at -Broadflute closure or similar approved is to be installed for all IBR and Kliplok roof sheeting at the ridge, profile, colour and material is to match the roof sheeting. Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge BACKFILL:

-Roof pitch to match existing and be confirmed on site. -All exposed timber to be painted with carbolineum, painting to be completed prior to installation. -Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet. -114 x 38mm false rafters to be installed, at every alternative truss for the full length on both sides of the Water tank plinth constructed to Engineers detail, with 2500 litre polyethylene water tank eave (fascia board support) as well as both gable ends (barge board support). -Beam fill purlins to be installed at ridges and gable ends, as directed on site.

-Roof Screws: Timber application with corrugated sheeting: 12x65 timberfix hex head washer flange EPDM method also applies to existing water tanks on existing or new plinths.

-Roof sheeting as specified above or similar approved.

Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws with the washer (26mm) supplied by the supplier, existing roofs to use the beveled metal/rubber washer. -Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be directed on site. -A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation

where sheets overlaps on both sides

AIR-BRICKS:

BARGE BOARD:

as specified on drawings, or similar approved.

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joiners. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing fixed on . Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

UNDERCOAT.

Medium density plain fibre cement 225 X 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix with hot-dip galvanised drive screws and washers. Item complete aluminium pen tray for the full length of the centre board. Centre board as above or similar approved. Where specified and to be confirmed on site, item as above or similar sizes to be = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW: SURFACE PREPARATION:

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

NEW WORK: Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to obtain an unbroken barrier coat to seal surface properly. FILLING: Fill defects with a good wall crack filler.

UNDERCOAT: To all surfaces prepared and primed as above, apply a coat of UNIVERSAL

APPLICATION: Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

150 x 150mm seamless aluminium gutters with end closers and drop box. Gutters to be adequately supported and fixed to building Or otherwise stated on drawings, to match

SURFACE PREPARATION:

All dimensions to be checked before work commences. Architect to be notified immediately of any 100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. Shoes to be provided to bottom of down-pipes. Or otherwise stated on drawings, to match existing.

> **CEILINGS:** 9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped &

sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polvin matt WHITE paint. Items

as above or similar approved. CEILING TRAP DOORS: Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position

to be confirmed on site.

All walls are to comply with "Part K" of the S.A.N.S 10-400. New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, be to indicated by responsible individual as required. All founding and / or retaining walls to Structural Engineers details. P.C. lintols to be installed over all new openings where walls to be plastered and painted as specified on drawings and to be confirmed on site. All fire walls to underside of roof sheeting. Walls to be constructed as per existing and

Wall stitching to be strictly in accordance to Engineers detail.

MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT)

NEW PLASTERED WALLS: Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water-based satin finish paint as described

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and NEW WORK: Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an unbroken barrier

coat to seal alkaline surfaces properly. Fill defects with a good wall crack filler as appropriate.

APPLICATION: Water-based paint is ready for use and is best applied by brush. Apply generous full coats so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. - Paint colour: To match existing and to be confirmed on site.

FLASHING / WATERPROOFING: as specified on drawings, colour to match sheeting finish.

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, using basing appropriate base plate and to be fixed to truss or

beam above using appropriate channel.

New windows to be hot dipped galvanised steel windows or to match existing as indicated on drawings, to be confirmed on site. All new windows to be installed with 6mm toughened

manufacturers specifications, hardener to be applied once putty is smooth and applied correctly. Putty to be painted to match existing window frame, colour to be confirmed on site.

All glazing to be measured and confirmed on site prior to installation. New doors as indicated on schedule, to be confirmed on site. All external doors to be solid

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded

smooth and pre-varnished in mahogany, then fixed to wall. Item as above or similar approved as required on drawings.

Refer to drawings for location of new floor covering. Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinyl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a 'Vicker A24F' trowel at

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer. -Tile colour: to be confirmed. Item as above or as per existing.

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide sealant with backing strip and impregnated softboard. All to Engineers detail.

growth, then the following shall apply. Excess soil / vegetation to be removed from all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

cap (Corrugated roof sheeting) and/or broadflute closure and ridge cap (IBR and Kliplok roof sheeting). Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated, all to engineers detail. WATER TANK AND PLINTH:

with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed to eye hooks cast into concrete slab - All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve tap to be installed as per BOQ. Screed to fall around tank once installed. The above fixing

BRICK WORK: Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine FSB clay facebrick,

bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpends, suitable for exposure zones 1-2: Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar:

Electrical as per drawings, to match existing where appropriate and to be confirmed on site.

229 x 152mm Terra-cotta vermin proofed air-bricks, or similar approved built into brick beam fill. Install SECURITY GATE AND BURGLAR FLAT BARS: Galvanised gate to be installed as directed on site, drawings to be provided. Burglar bars - 30mmx3mm gms flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti rust protection spray or cold galvanised paint coating as per manufacturers specifications.

CHALKBOARD

1140mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions. CHALK BOARDS REPLACED WITH WHITE BOARDS: Fixed projection white board (NON REFLECTIVE) , Aluminium framed, magnetic surface (Centre board) complete with 2 x Swing leaf Aluminium framed magnetic chalk boards(without any lines or graphics etc) with heavy duty hinges and one

mm. Aluminium pen tray length 2250mm fitted to Centre board. 1 Complete full set of magnetic starter pack consisting of the following for each board supplied: 4 x white board markers Red, Green, Black, Blue, 1x cleaning Cloth

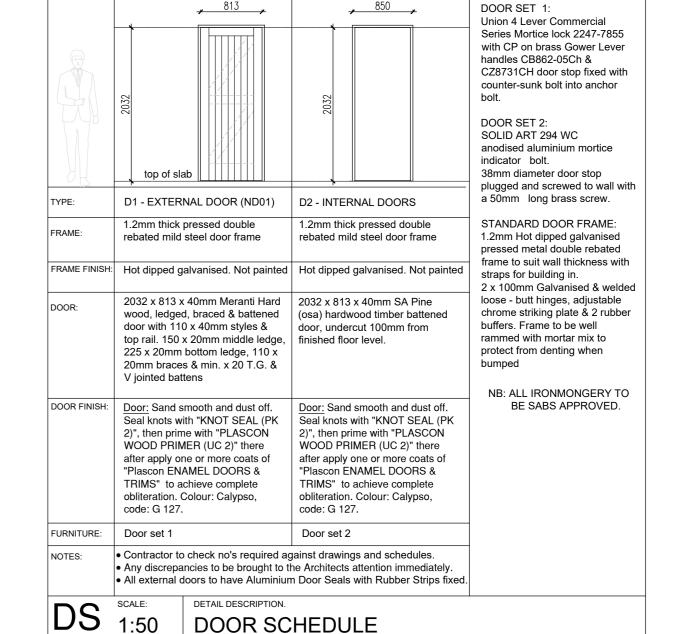
1x Magnetic Eraser 1x Cleaning Fluid 250 ml 4 x moulded magnets d day

PINING BOARD:

1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and fixing brackets plugged and screwed to wall as per manufacturer's instructions. DADO RAILS:

New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, subjected, to match all table and chair heights on site.

All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved, and to match existing where applicable. Any discrepancies to be brought to the consultants attention prior to the commencement of any work.



KZN Department of Public Works Stamp and Signature



CONTINENTAL POTENTIAL

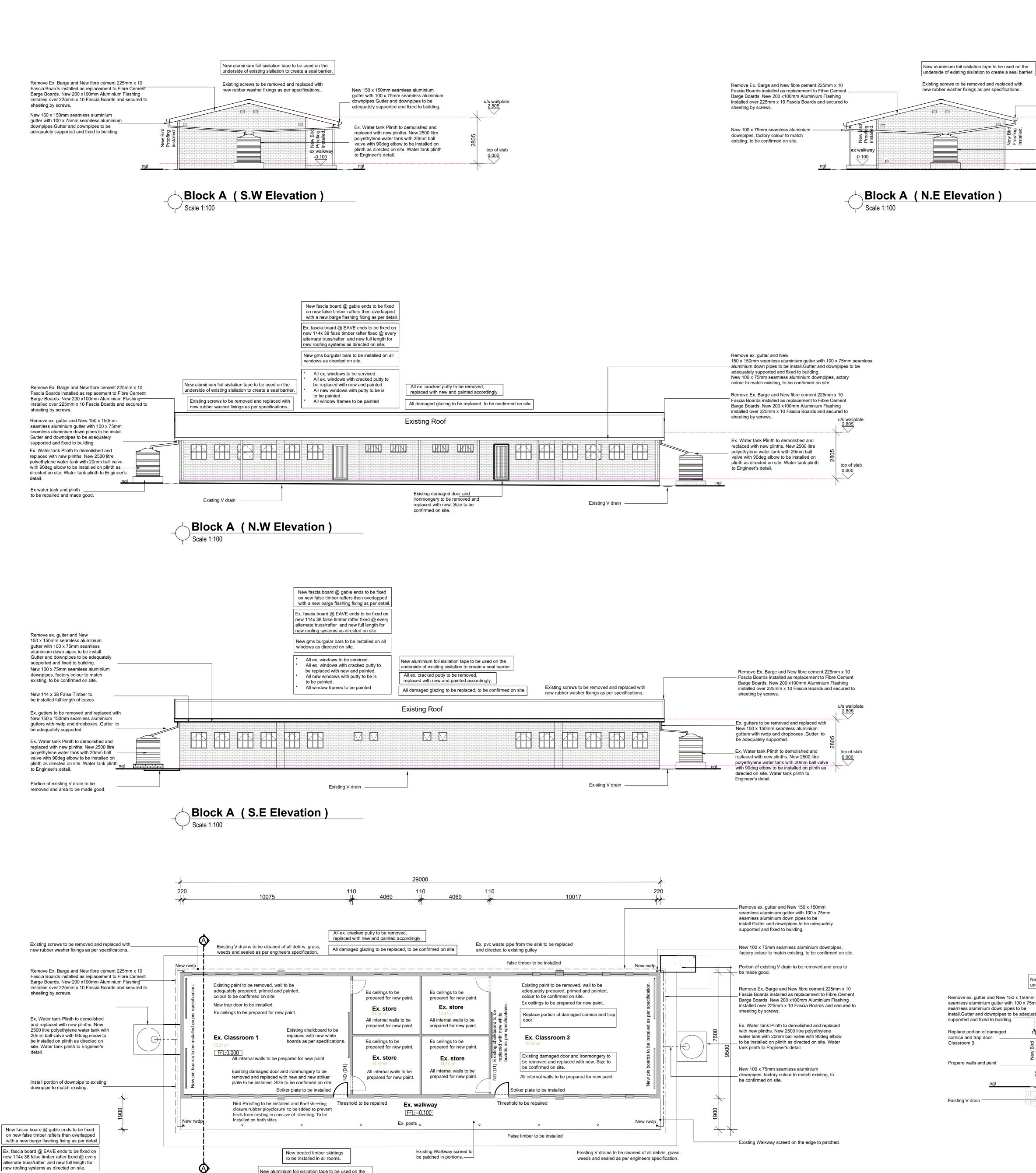
Signature:



PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 132 - EKUTHUTHUKENI SECONDARY SCHOOL Drawing Description:

Site Plan for Ekuthuthukeni Secondary

Date: 2020/05/04 Drawn: S.Geness / T. Mkhize Date: **2020/05/04** Checked By: M. Khan / T.M Scales: AS SHOWN Revision: Consultant Drawina No 1391-18 WD01 DOPW Contract No: Revision: ZNTL04780W DOPW WIMS No: WIMS: 063805 Stamped by Design Review Committee



underside of existing sisilation to create a seal barrier

New gms burgular bars to be installed on all

All ex. windows with cracked putty to

be replaced with new and painted.

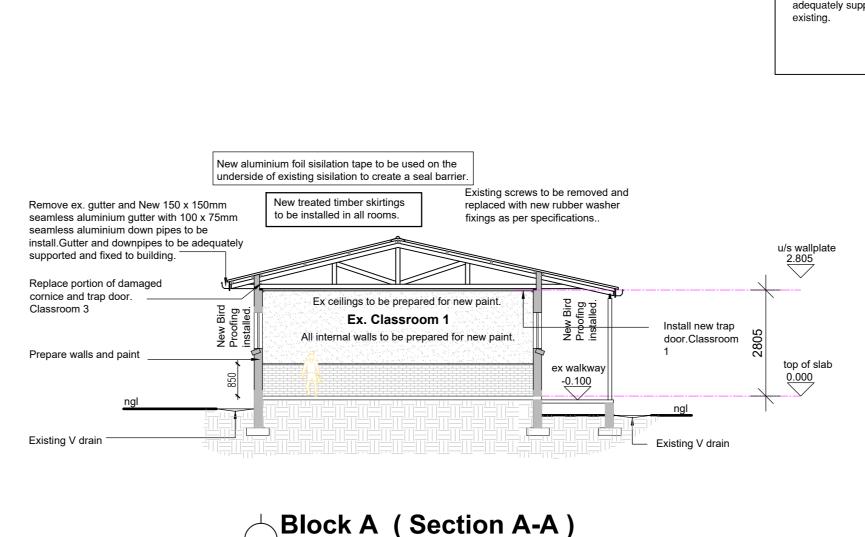
All new windows with putty to be is

All window frames to be painted

All ex. windows to be serviced.

windows as directed on site.

to be painted.



New 150 x 150mm seamless aluminium

downpipes.Gutter and downpipes to be

Ex. Water tank Plinth to demolished and

polyethylene water tank with 20mm ball

valve with 90deg elbow to be installed on

to Engineer's detail.

plinth as directed on site. Water tank plinth

top of slab

replaced with new plinths. New 2500 litre

gutter with 100 x 75mm seamless aluminium

adequately supported and fixed to building.

D1 - EXTERNAL DOOR (ND01) .2mm thick pressed double rebated mild steel door frame 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso,

DOWN-PIPES Shoes to be provided to bottom of down-pipes.

All dimensions to be checked before work commences. Architect to be notified immediately of any 100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. discrepancies, errors, omissions, etc. 2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless

otherwise stated. . All levels to be checked on site before any work commences. . All reinforced concrete work to be strictly in accordance with structural engineers detail and

GENERAL NOTES:

5. Damproof course to comply with S.A.N.S. 10-400 requirements. 6. All walls to be reinforced with two courses brickforce at cill and wall plate levels. Workmanship is to be of the highest standard through-out.

. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period. . The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.

10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY 1. All materials to be used in strict accordance to manufacturers specification

12. Soil poisoning to be used under all new concrete work and new water tank stands. 13. Screed to be applied as directed, to Engineers detail. 14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site. 15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices),

and to match existing where applicable. 16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures. 7. Soil Poisoning to be applied where specified, for all new work and existing where applicable, to

manufacturer's specification and to Engineers detail. - All STRUCTURAL, CIVIL and ELECTRICAL work to professional Engineers

- All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS details to take preference over structural, civil & electrical details indicated on this drawing.

GENERAL SPECIFICATION /CONSTRUCTION NOTES:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides. (Colour on top: to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge Aluminum flashing and paint on waterproofing membrane or similar approved to be installed and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside). Sheets to be fixed to on drawings, to be confirmed on site. All new windows to be installed with 6mm toughened every purlin using appropriate self drilling/ tapping screws. At the ridge and eave purlins, fixing to be safety glass. Putty to be painted to match window frame, colour to be confirmed on site. at every crown.Purlins spaced as per manufacturers specifications, on engineered timber trusses (or

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max.

GLAZING PANELS: 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' interlocking roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside) Sheets shall be fixed to every purlin using galvanized steel "KL700" clips. "KL700" clips to be fixed to purlins using the appropriate self drilling / tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber

per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled

with care, no scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be the rate of between 5.5m² and 6.5m² per litre, depending on the sub-floor porosity, laid on removed off site immediately. Sheeting to be installed by manufacturer approved installer. Manufacturer screed to fall, made with waterproof admixture to inspect sheeting after installation and supply certification.

Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends.

Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses. Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates.

-Hurricane clips to be used at all purlin/ truss nodes, and to be doubled at eave and ridge purlins (diagonally), as directed on site. - Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof

sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at growth, then the following shall apply. Excess soil / vegetation to be removed from all gaps, the ridge only. -Broadflute closure or similar approved is to be installed for all IBR and Kliplok roof sheeting at the ridge, profile, colour and material is to match the roof sheeting.

-Roof pitch to match existing and be confirmed on site. -All exposed timber to be painted with carbolineum, painting to be completed prior to installation -Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet. -114 x 38mm false rafters to be installed, at every alternative truss for the full length on both sides of the Water tank plinth constructed to Engineers detail, with 2500 litre polyethylene water tank eave (fascia board support) as well as both gable ends (barge board support). -Beam fill purlins to be installed at ridges and gable ends, as directed on site. -Roof sheeting as specified above or similar approved.

-Roof Screws: Timber application with corrugated sheeting: 12x65 timberfix hex head washer flange EPDM Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws with the washer (26mm) supplied by the supplier, existing roofs to use the beveled metal/rubber washer. -Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be

directed on site. -A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm Terra-cotta vermin proofed air-bricks, or similar approved built into brick beam fill. Install SECURITY GATE AND BURGLAR FLAT BARS: as specified on drawings, or similar approved.

BARGE BOARD:

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joiners. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing fixed on . Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

Medium density plain fibre cement 225 X 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix with hot-dip galvanised drive screws and washers. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW: SURFACE PREPARATION: Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

NEW WORK: Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to

obtain an unbroken barrier coat to seal surface properly. FILLING: Fill defects with a good wall crack filler. UNDERCOAT: To all surfaces prepared and primed as above, apply a coat of UNIVERSAL UNDERCOAT.

APPLICATION: Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

150 x 150mm seamless aluminium gutters with end closers and drop box. Gutters to be adequately supported and fixed to building Or otherwise stated on drawings, to match

Or otherwise stated on drawings, to match existing.

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polvin matt WHITE paint. Items as above or similar approved.

Sheet 2 of 8 (A0)

CEILING TRAP DOORS: Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position

to be confirmed on site.

All walls are to comply with "Part K" of the S.A.N.S 10-400. New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, be to indicated by responsible individual as required. All founding and / or retaining walls to Structural Engineers details. P.C. lintols to be installed over all new openings where walls to be plastered and painted, as specified on drawings and to be confirmed on site. All fire walls to underside of roof sheeting. Walls to be constructed as per existing and

where specified. Wall stitching to be strictly in accordance to Engineers detail. MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT)

NEW PLASTERED WALLS: Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water-based satin finish paint as described SURFACE PREPARATION:

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an unbroken barrier coat to seal alkaline surfaces properly.

Fill defects with a good wall crack filler as appropriate. APPLICATION: Water-based paint is ready for use and is best applied by brush. Apply generous full coats so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. - Paint colour: To match existing and to be confirmed on site.

FLASHING / WATERPROOFING: as specified on drawings, colour to match sheeting finish.

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, using basing appropriate base plate and to be fixed to truss or beam above using appropriate channel.

New windows to be hot dipped galvanised steel windows or to match existing as indicated

New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per manufacturers specifications, hardener to be applied once putty is smooth and applied correctly. Putty to be painted to match existing window frame, colour to be confirmed on site. *All glazing to be measured and confirmed on site prior to installation.

New doors as indicated on schedule, to be confirmed on site. All external doors to be solid meranti hardwood, internal doors to be hollow core.

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as smooth and pre-varnished in mahogany, then fixed to wall. Item as above or similar

approved as required on drawings. FLOOR COVERING: Refer to drawings for location of new floor covering.

Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinvl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a 'Vicker A24F' trowel at

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer. Tile colour: to be confirmed. Item as above or as per existing.

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

IN-SITU CHANNELS: Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide sealant with backing strip and impregnated softboard. All to Engineers detail.

Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge BACKFILL cap (Corrugated roof sheeting) and/or broadflute closure and ridge cap (IBR and Kliplok roof sheeting). Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated, all to engineers detail.

> WATER TANK AND PLINTH: with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed to eve hooks cast into concrete slab - All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve tap to be installed as per BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine FSB clay facebrick, bedded and jointed in Class II mortar and pointed with flush vertical and flush

horizontal joints and perpends, suitable for exposure zones 1-2: Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar: **ELECTRICAL**:

Electrical as per drawings, to match existing where appropriate and to be confirmed on site.

Galvanised gate to be installed as directed on site, drawings to be provided. Burglar bars - 30mmx3mm gms flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti rust protection spray or cold galvanised paint coating as per manufacturers specifications.

CHALKBOARD: 1140mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

CHALK BOARDS REPLACED WITH WHITE BOARDS: Fixed projection white board (NON REFLECTIVE), Aluminium framed, magnetic

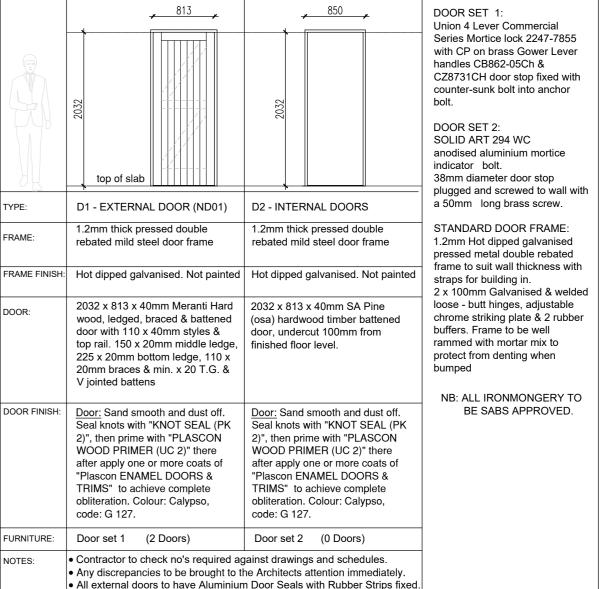
surface (Centre board) complete with 2 x Swing leaf Aluminium framed magnetic chalk boards(without any lines or graphics etc) with heavy duty hinges and one complete aluminium pen tray for the full length of the centre board. Centre board sizes to be = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board. 1 Complete full set of magnetic starter pack consisting of the following for each board supplied: 4 x white board markers Red, Green, Black, Blue,

1x cleaning Cloth 1x Magnetic Eraser 1x Cleaning Fluid 250 ml 4 x moulded magnets d day PINING BOARD:

1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and fixing brackets plugged and screwed to wall as per manufacturer's instructions. DADO RAILS:

New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, subjected, to match all table and chair heights on site.

All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved, and to match existing where applicable. Any discrepancies to be brought to the consultants attention prior to the commencement of any work.



SCALE: DETAIL DESCRIPTION.

1:50 DOOR SCHEDULE

Drawn: S.Geness / T. Mkhize Checked By: M. Khan / T.M

Construction drawings for

SECONDARY SCHOOL

Drawing Description:

CONTINENTAL POTENTIAL

Scales:1:100 Consultant Drawina No 1391-18 WD02 DOPW Contract No: ZNTL04780W DOPW WIMS No: WIMS: 063805 Stamped by Design Review Committee

PHASE 14: REPAIRS AND RENOVATIONS TO

STORM DAMAGED SCHOOLS - KZN MIDLANDS

REGION - CLUSTER 132 - EKUTHUTHUKENI

Ekuthuthukeni Secondary - School

Block A; Plan, Section and Elevations

PROVINCE OF KWAZULU-NATAL

Date: **2020/05/04**

Date: 2020/05/04

KZN Department of Public Works Stamp and Signature

Date:

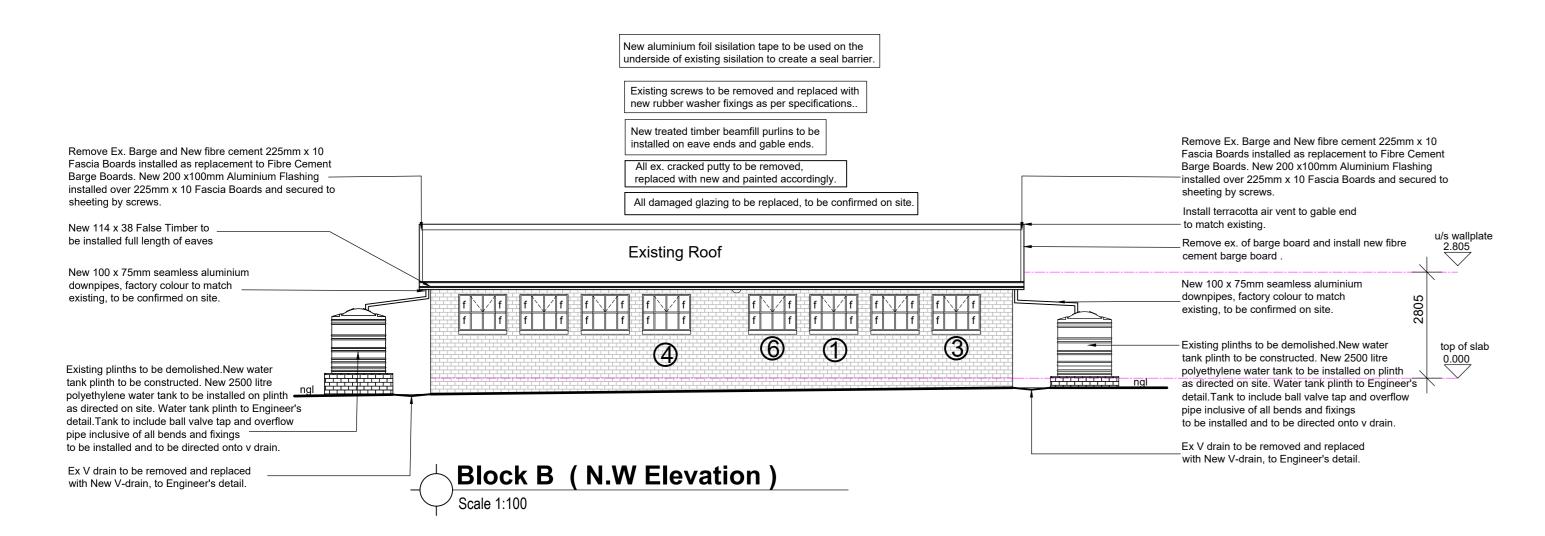
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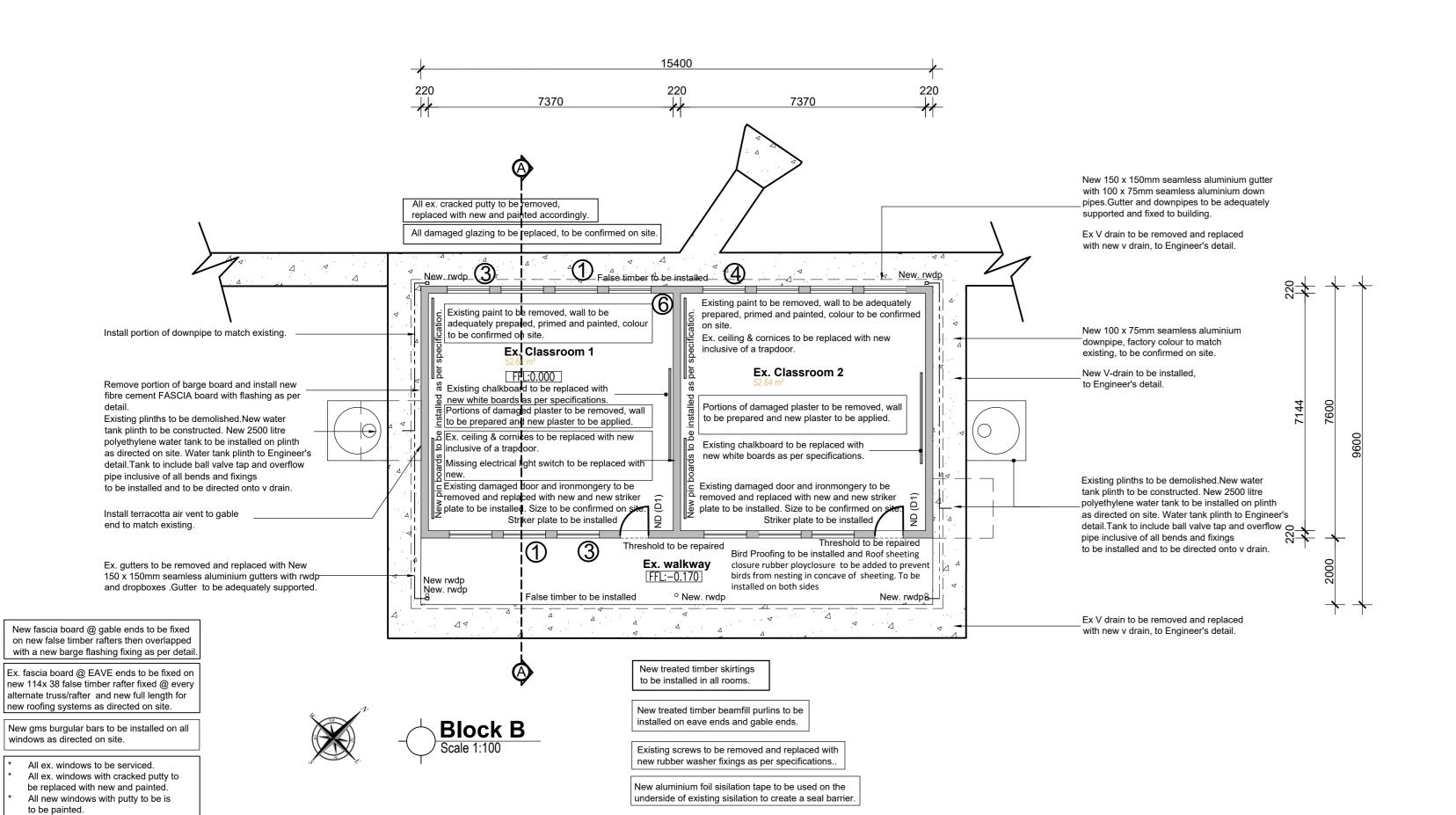
Consultant:

Signature:

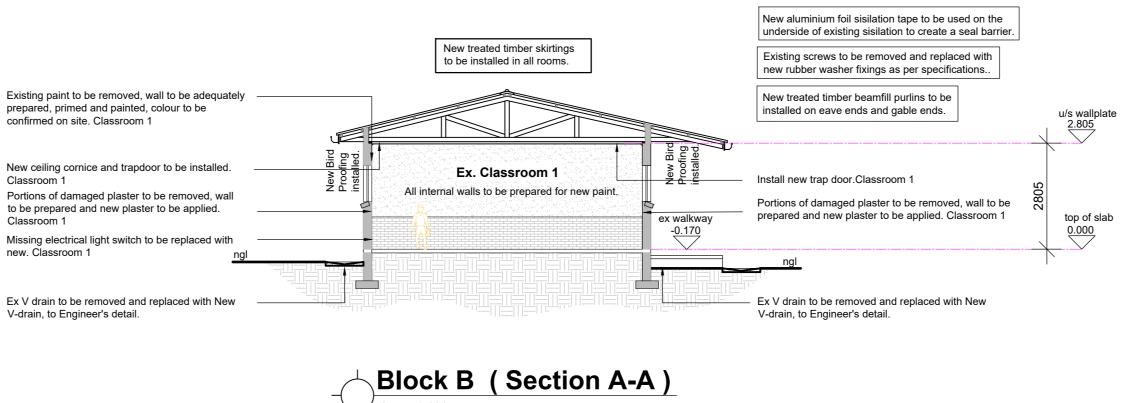
New aluminium foil sisilation tape to be used on the underside of existing sisilation to create a seal barrier. Existing screws to be removed and replaced with new rubber washer fixings as per specifications... Remove Ex. Barge and New fibre cement 225mm x 10 Fascia Boards installed as replacement to Fibre Cement -Barge Boards. New 200 x100mm Aluminium Flashing New treated timber beamfill purlins to be nstalled over 225mm x 10 Fascia Boards and secured to installed on eave ends and gable ends. sheeting by screws. New 150 x 150mm seamless aluminium New 114 x 38 False Timber to be installed gutter .Gutter to be adequately supported full length of eaves and fixed to building. New 150 x 150mm seamless aluminium gutter .Gutter to be adequately supported New 114 x 38 False Timber to be installed and fixed to building. full length of eaves Ex water tank and plinth to be repaired and made good.

New aluminium foil sisilation tape to be used on the underside of existing sisilation to create a seal barrier. Existing screws to be removed and replaced with new rubber washer fixings as per specifications.. New treated timber beamfill purlins to be installed on eave ends and gable ends. Remove Ex. Barge and New fibre cement 225mm x 10 All ex. cracked putty to be removed, Fascia Boards installed as replacement to Fibre Cement Install terracotta air vent to gable end to replaced with new and painted accordingly. Barge Boards. New 200 x100mm Aluminium Flashing match existing. installed over 225mm x 10 Fascia Boards and secured to All damaged glazing to be replaced, to be confirmed on site. sheeting by screws. Remove ex. of barge board and install new fibre cement barge board. **Existing Roof** New 100 x 75mm seamless aluminium New 114 x 38 False Timber to be downpipes, factory colour to match existing, to installed full length of eaves be confirmed on site. Existing plinths to be demolished. New water tank plinth Existing plinths to be demolished. New water tank plinth to be constructed. New 2500 litre polyethylene water to be constructed. New 2500 litre polyethylene water tank to be installed on plinth as directed on site. Water tank to be installed on plinth as directed on site. Water tank plinth to Engineer's detail. Tank to include ball valve tank plinth to Engineer's detail. Tank to include ball valve tap and overflow pipe inclusive of all bends and fixings tap and overflow pipe inclusive of all bends and fixings to be installed and to be directed onto v drain. to be installed and to be directed onto v drain. Ex V drain to be removed and replaced Ex V drain to be removed and replaced with New V-drain, to Engineer's detail. with New V-drain, to Engineer's detail. removed and replaced with new. Size to be confirmed on site.





All window frames to be painted



Block B (Section A-A)

GENERAL NOTES:

discrepancies, errors, omissions, etc. 2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless

. All levels to be checked on site before any work commences.

4. All reinforced concrete work to be strictly in accordance with structural engineers detail and

5. Damproof course to comply with S.A.N.S. 10-400 requirements.

6. All walls to be reinforced with two courses brickforce at cill and wall plate levels. . Workmanship is to be of the highest standard through-out. 3. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.

. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc. 10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY

1. All materials to be used in strict accordance to manufacturers specification

12. Soil poisoning to be used under all new concrete work and new water tank stands. 13. Screed to be applied as directed, to Engineers detail. 14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site. 15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses,

purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable. 16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS

regulations and procedures. 7. Soil Poisoning to be applied where specified, for all new work and existing where applicable, to manufacturer's specification and to Engineers detail.

- All STRUCTURAL, CIVIL and ELECTRICAL work to professional Engineers - All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS details to take preference over structural, civil & electrical details indicated on this drawing.

GENERAL SPECIFICATION /CONSTRUCTION NOTES:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides. (Colour on top: to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge Aluminum flashing and paint on waterproofing membrane or similar approved to be installed and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside). Sheets to be fixed to on drawings, to be confirmed on site. All new windows to be installed with 6mm toughened every purlin using appropriate self drilling/ tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max.

GLAZING PANELS: 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary). 0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' interlocking roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site

where matching existing. (Colour on top: to be confirmed and factory standard grey to underside) Sheets shall be fixed to every purlin using galvanized steel "KL700" clips. "KL700" clips to be fixed to purlins using the appropriate self drilling / tapping screws. At the ridge and eave purlins, fixing to be at every crown.Purlins to be spaced as per manufacturers specifications, on engineered timber Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as smooth and pre-varnished in mahogany, then fixed to wall. Item as above or similar per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where

specified and sizes may vary). General roof notes: Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled

to inspect sheeting after installation and supply certification. Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with

advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends. Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron

straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses, Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates. -Hurricane clips to be used at all purlin/ truss nodes, and to be doubled at eave and ridge purlins

(diagonally), as directed on site. - Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at growth, then the following shall apply. Excess soil / vegetation to be removed from all gaps, the ridge only.

-Broadflute closure or similar approved is to be installed for all IBR and Kliplok roof sheeting at the

ridge, profile, colour and material is to match the roof sheeting. Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge BACKFILL cap (Corrugated roof sheeting) and/or broadflute closure and ridge cap (IBR and Kliplok roof sheeting). Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm -Roof pitch to match existing and be confirmed on site. -All exposed timber to be painted with carbolineum, painting to be completed prior to installation. -Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet.

-114 x 38mm false rafters to be installed, at every alternative truss for the full length on both sides of the Water tank plinth constructed to Engineers detail, with 2500 litre polyethylene water tank eave (fascia board support) as well as both gable ends (barge board support). -Beam fill purlins to be installed at ridges and gable ends, as directed on site. Roof sheeting as specified above or similar approved. -Roof Screws:

Timber application with corrugated sheeting: 12x65 timberfix hex head washer flange EPDM Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws with the washer (26mm) supplied by the supplier, existing roofs to use the beveled metal/rubber washer.

-Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be -A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS: 229 x 152mm Terra-cotta vermin proofed air-bricks, or similar approved built into brick beam fill. Install SECURITY GATE AND BURGLAR FLAT BARS:

as specified on drawings, or similar approved.

BARGE BOARD:

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joiners. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing fixed on . Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

Medium density plain fibre cement 225 X 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix with hot-dip galvanised drive screws and washers. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW: SURFACE PREPARATION:

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and NEW WORK: Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to

obtain an unbroken barrier coat to seal surface properly. FILLING: Fill defects with a good wall crack filler. UNDERCOAT: To all surfaces prepared and primed as above, apply a coat of UNIVERSAL UNDERCOAT.

APPLICATION: Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

150 x 150mm seamless aluminium gutters with end closers and drop box. Gutters to be adequately supported and fixed to building Or otherwise stated on drawings, to match

All dimensions to be checked before work commences. Architect to be notified immediately of any 100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. Shoes to be provided to bottom of down-pipes. Or otherwise stated on drawings, to match existing.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polvin matt WHITE paint. Items as above or similar approved.

CEILING TRAP DOORS: Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position to be confirmed on site.

All walls are to comply with "Part K" of the S.A.N.S 10-400. New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, be to indicated by responsible individual as required.

All founding and / or retaining walls to Structural Engineers details. P.C. lintols to be installed over all new openings where walls to be plastered and painted. as specified on drawings and to be confirmed on site. All fire walls to underside of roof sheeting. Walls to be constructed as per existing and where specified. Wall stitching to be strictly in accordance to Engineers detail.

MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT) NEW PLASTERED WALLS:

Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water-based satin finish paint as described SURFACE PREPARATION: Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an unbroken barrier coat to seal alkaline surfaces properly.

Fill defects with a good wall crack filler as appropriate. APPLICATION: Water-based paint is ready for use and is best applied by brush. Apply generous full coats

so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. - Paint colour: To match existing and to be confirmed on site. FLASHING / WATERPROOFING: as specified on drawings, colour to match sheeting finish.

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed

to concrete and not screed, using basing appropriate base plate and to be fixed to truss or beam above using appropriate channel.

New windows to be hot dipped galvanised steel windows or to match existing as indicated safety glass. Putty to be painted to match window frame, colour to be confirmed on site.

New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per manufacturers specifications, hardener to be applied once putty is smooth and applied correctly. Putty to be painted to match existing window frame, colour to be confirmed on site.

*All glazing to be measured and confirmed on site prior to installation. New doors as indicated on schedule, to be confirmed on site. All external doors to be solid meranti hardwood, internal doors to be hollow core.

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded

approved as required on drawings. FLOOR COVERING:

Refer to drawings for location of new floor covering. Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinyl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a 'Vicker A24F' trowel at with care, no scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be the rate of between 5.5m² and 6.5m² per litre, depending on the sub-floor porosity, laid on removed off site immediately. Sheeting to be installed by manufacturer approved installer. Manufacturer screed to fall, made with waterproof admixture

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer. Tile colour: to be confirmed. Item as above or as per existing.

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

N-SITU CHANNELS: Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide sealant with backing strip and impregnated softboard. All to Engineers detail.

area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

in depth and thoroughly consolidated, all to engineers detail.

WATER TANK AND PLINTH: with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed to eve hooks cast into concrete slab - All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve tap to be installed as per BOQ. Screed to fall around tank once installed. The above fixing

method also applies to existing water tanks on existing or new plinths. BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine FSB clay facebrick, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpends, suitable for exposure zones 1-2:

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar:

ELECTRICAL: Electrical as per drawings, to match existing where appropriate and to be confirmed on site.

Galvanised gate to be installed as directed on site, drawings to be provided. Burglar bars - 30mmx3mm gms flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti rust protection spray or cold galvanised

paint coating as per manufacturers specifications.

1140mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

CHALK BOARDS REPLACED WITH WHITE BOARDS: Fixed projection white board (NON REFLECTIVE), Aluminium framed, magnetic surface (Centre board) complete with 2 x Swing leaf Aluminium framed magnetic chalk boards(without any lines or graphics etc) with heavy duty hinges and one complete aluminium pen tray for the full length of the centre board. Centre board sizes to be = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.

1 Complete full set of magnetic starter pack consisting of the following for each board supplied: 4 x white board markers Red, Green, Black, Blue, 1x cleaning Cloth 1x Magnetic Eraser

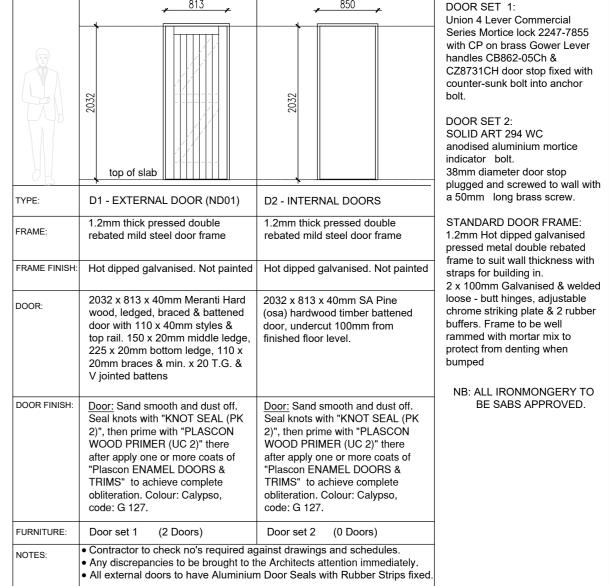
1x Cleaning Fluid 250 ml 4 x moulded magnets d day PINING BOARD: 1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and

fixing brackets plugged and screwed to wall as per manufacturer's instructions. DADO RAILS: New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All

fixing holes to be covered with a wood filler and sanded down smoothly before painting

high, subjected, to match all table and chair heights on site. All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved. and to match existing where applicable. Any discrepancies to be brought to the consultants attention prior to the commencement of any work.

with an approved colour on site. All Dado rail heights to be at max. height of 800mm



KZN Department of Public Works Stamp and Signature

Signature:





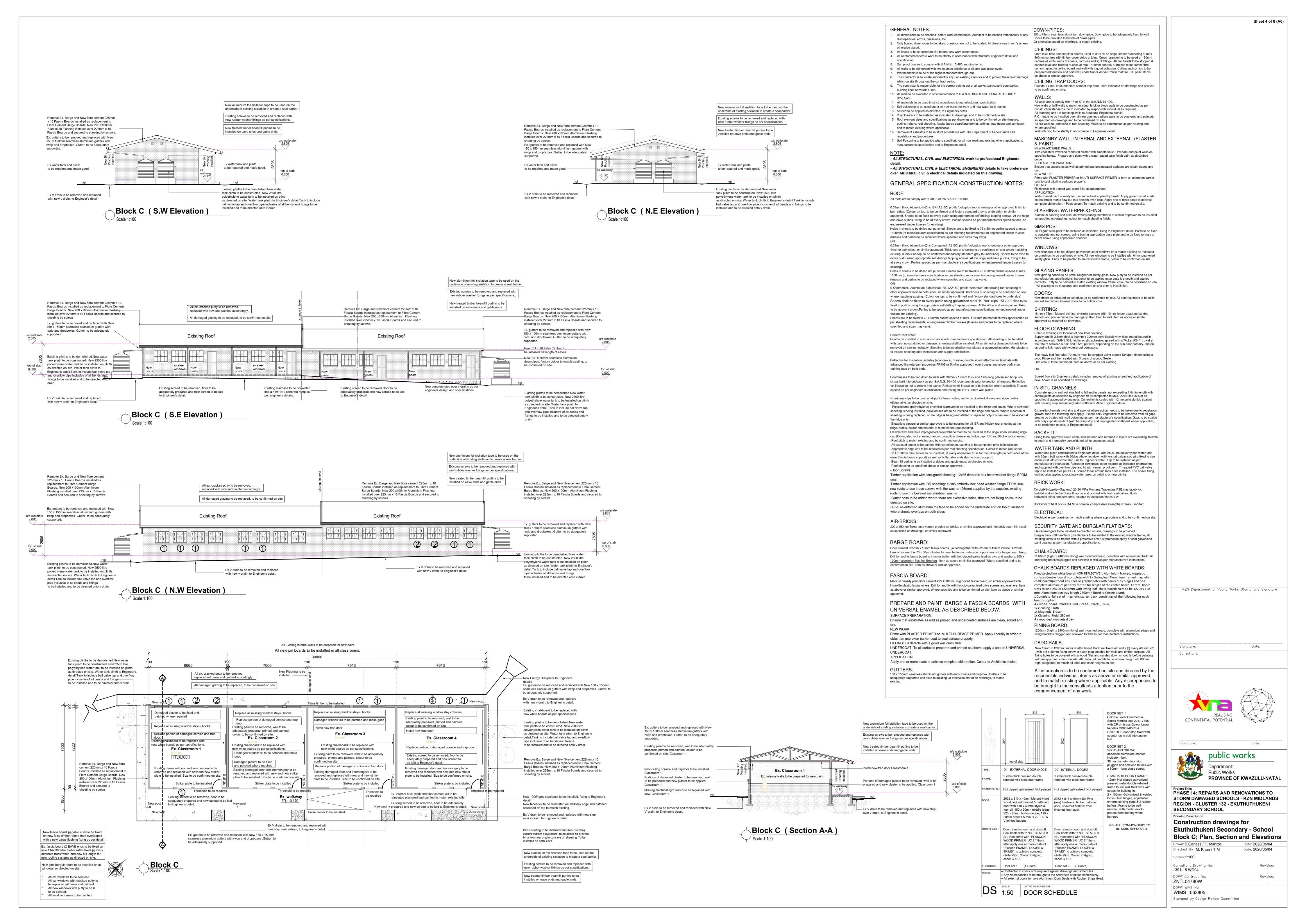
PROVINCE OF KWAZULU-NATAL PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS

SECONDARY SCHOOL **Drawing Description:** Construction drawings for **Ekuthuthukeni Secondary - School**

REGION - CLUSTER 132 - EKUTHUTHUKENI

Block B; Plan, Section and Elevations Orawn: **S.Geness / T. Mkhize** Date: **2020/05/04** Date: 2020/05/04 Checked By: M. Khan / T.M. Scales:1:100 Consultant Drawing No Revision:

1391-18 WD03 DOPW Contract No: Revision: ZNTL04780W DOPW WIMS No: WIMS: 063805 Stamped by Design Review Committee



All ex. windows to be serviced.

to be painted.

All ex, windows with cracked putty to

be replaced with new and painted.

All new windows with putty to be is

All window frames to be painted

GENERAL NOTES:

discrepancies, errors, omissions, etc. 2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless

otherwise stated. All levels to be checked on site before any work commences.

. All reinforced concrete work to be strictly in accordance with structural engineers detail and

5. Damproof course to comply with S.A.N.S. 10-400 requirements. 6. All walls to be reinforced with two courses brickforce at cill and wall plate levels. . Workmanship is to be of the highest standard through-out.

3. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period . The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc. 10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY

1. All materials to be used in strict accordance to manufacturers specification 12. Soil poisoning to be used under all new concrete work and new water tank stands.

13. Screed to be applied as directed, to Engineers detail. 14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site. 15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices),

and to match existing where applicable. 16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures. 7. Soil Poisoning to be applied where specified, for all new work and existing where applicable, to

- All STRUCTURAL, CIVIL and ELECTRICAL work to professional Engineers - All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS details to take preference

over structural, civil & electrical details indicated on this drawing. GENERAL SPECIFICATION /CONSTRUCTION NOTES:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

manufacturer's specification and to Engineers detail.

0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting or other approved finish to

both sides. (Colour on top: to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge Aluminum flashing and paint on waterproofing membrane or similar approved to be installed and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside). Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max.

GLAZING PANELS: 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary). 0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' interlocking roof sheeting or

other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside) Sheets shall be fixed to every purlin using galvanized steel "KL700" clips. "KL700" clips to be fixed to purlins using the appropriate self drilling / tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber trusses (or existing) Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as smooth and pre-varnished in mahogany, then fixed to wall. Item as above or similar

per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled with care, no scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be the rate of between 5.5m² and 6.5m² per litre, depending on the sub-floor porosity, laid on removed off site immediately. Sheeting to be installed by manufacturer approved installer, Manufacturer screed to fall, made with waterproof admixture to inspect sheeting after installation and supply certification.

Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends.

Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses. Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates.

-Hurricane clips to be used at all purlin/ truss nodes, and to be doubled at eave and ridge purlins (diagonally), as directed on site. - Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of

the ridge only. -Broadflute closure or similar approved is to be installed for all IBR and Kliplok roof sheeting at the ridge, profile, colour and material is to match the roof sheeting. Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge BACKFILL

-Roof pitch to match existing and be confirmed on site. -All exposed timber to be painted with carbolineum, painting to be completed prior to installation. -Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet. -114 x 38mm false rafters to be installed, at every alternative truss for the full length on both sides of the Water tank plinth constructed to Engineers detail, with 2500 litre polyethylene water tank eave (fascia board support) as well as both gable ends (barge board support). -Beam fill purlins to be installed at ridges and gable ends, as directed on site.

-Roof Screws: Timber application with corrugated sheeting: 12x65 timberfix hex head washer flange EPDM Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws with the washer (26mm) supplied by the supplier, existing

roofs to use the beveled metal/rubber washer. -Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be directed on site. -A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation

where sheets overlaps on both sides

AIR-BRICKS:

General roof notes:

as specified on drawings, or similar approved.

-Roof sheeting as specified above or similar approved.

BARGE BOARD:

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joiners. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing fixed on . Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

approved.

Medium density plain fibre cement 225 X 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix with hot-dip galvanised drive screws and washers. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW: SURFACE PREPARATION:

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and NEW WORK:

Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to obtain an unbroken barrier coat to seal surface properly. FILLING: Fill defects with a good wall crack filler. UNDERCOAT: To all surfaces prepared and primed as above, apply a coat of UNIVERSAL UNDERCOAT.

APPLICATION: Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

150 x 150mm seamless aluminium gutters with end closers and drop box. Gutters to be adequately supported and fixed to building Or otherwise stated on drawings, to match

All dimensions to be checked before work commences. Architect to be notified immediately of any 100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. Shoes to be provided to bottom of down-pipes. Or otherwise stated on drawings, to match existing.

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CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polvin matt WHITE paint. Items as above or similar approved.

CEILING TRAP DOORS: Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position to be confirmed on site.

All walls are to comply with "Part K" of the S.A.N.S 10-400.

New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, be to indicated by responsible individual as required. All founding and / or retaining walls to Structural Engineers details. P.C. lintols to be installed over all new openings where walls to be plastered and painted, as specified on drawings and to be confirmed on site. All fire walls to underside of roof sheeting. Walls to be constructed as per existing and where specified.

Wall stitching to be strictly in accordance to Engineers detail. MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT)

NEW PLASTERED WALLS: Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water-based satin finish paint as described SURFACE PREPARATION:

Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an unbroken barrier coat to seal alkaline surfaces properly.

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

Fill defects with a good wall crack filler as appropriate.

LASHING / WATERPROOFING:

APPLICATION: Water-based paint is ready for use and is best applied by brush. Apply generous full coats so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. - Paint colour: To match existing and to be confirmed on site.

as specified on drawings, colour to match sheeting finish.

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, using basing appropriate base plate and to be fixed to truss or beam above using appropriate channel.

New windows to be hot dipped galvanised steel windows or to match existing as indicated on drawings, to be confirmed on site. All new windows to be installed with 6mm toughened

New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per

safety glass. Putty to be painted to match window frame, colour to be confirmed on site.

manufacturers specifications, hardener to be applied once putty is smooth and applied correctly. Putty to be painted to match existing window frame, colour to be confirmed on site. *All glazing to be measured and confirmed on site prior to installation.

New doors as indicated on schedule, to be confirmed on site. All external doors to be solid meranti hardwood, internal doors to be hollow core.

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded

approved as required on drawings. FLOOR COVERING:

Refer to drawings for location of new floor covering. Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinyl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a 'Vicker A24F' trowel at

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer. Tile colour: to be confirmed. Item as above or as per existing.

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

N-SITU CHANNELS: Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide sealant

with backing strip and impregnated softboard. All to Engineers detail.

Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at growth, then the following shall apply. Excess soil / vegetation to be removed from all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

cap (Corrugated roof sheeting) and/or broadflute closure and ridge cap (IBR and Kliplok roof sheeting). Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated, all to engineers detail.

> WATER TANK AND PLINTH: with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed to eve hooks cast into concrete slab - All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve tap to be installed as per BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine FSB clay facebrick, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpends, suitable for exposure zones 1-2:

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar:

ELECTRICAL: Electrical as per drawings, to match existing where appropriate and to be confirmed on site.

229 x 152mm Terra-cotta vermin proofed air-bricks, or similar approved built into brick beam fill. Install SECURITY GATE AND BURGLAR FLAT BARS: Galvanised gate to be installed as directed on site, drawings to be provided.

Burglar bars - 30mmx3mm gms flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti rust protection spray or cold galvanised paint coating as per manufacturers specifications.

CHALKBOARD: 1140mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

CHALK BOARDS REPLACED WITH WHITE BOARDS: Fixed projection white board (NON REFLECTIVE), Aluminium framed, magnetic surface (Centre board) complete with 2 x Swing leaf Aluminium framed magnetic chalk boards(without any lines or graphics etc) with heavy duty hinges and one complete aluminium pen tray for the full length of the centre board. Centre board sizes to be = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.

KZN Department of Public Works Stamp and Signature

Date:

Date:

Date: **2020/05/04**

Date: 2020/05/04

Stamped by Design Review Committee

Revision:

Revision:

Signature:

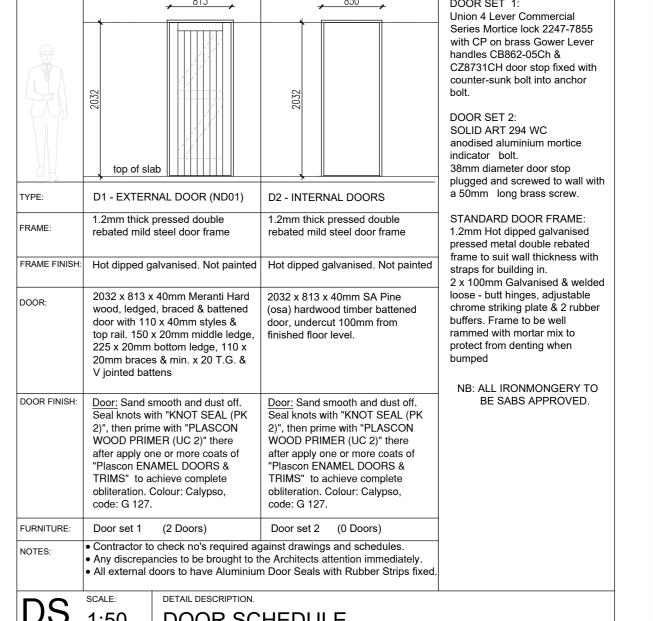
1 Complete full set of magnetic starter pack consisting of the following for each board supplied: 4 x white board markers Red. Green . Black . Blue. 1x cleaning Cloth

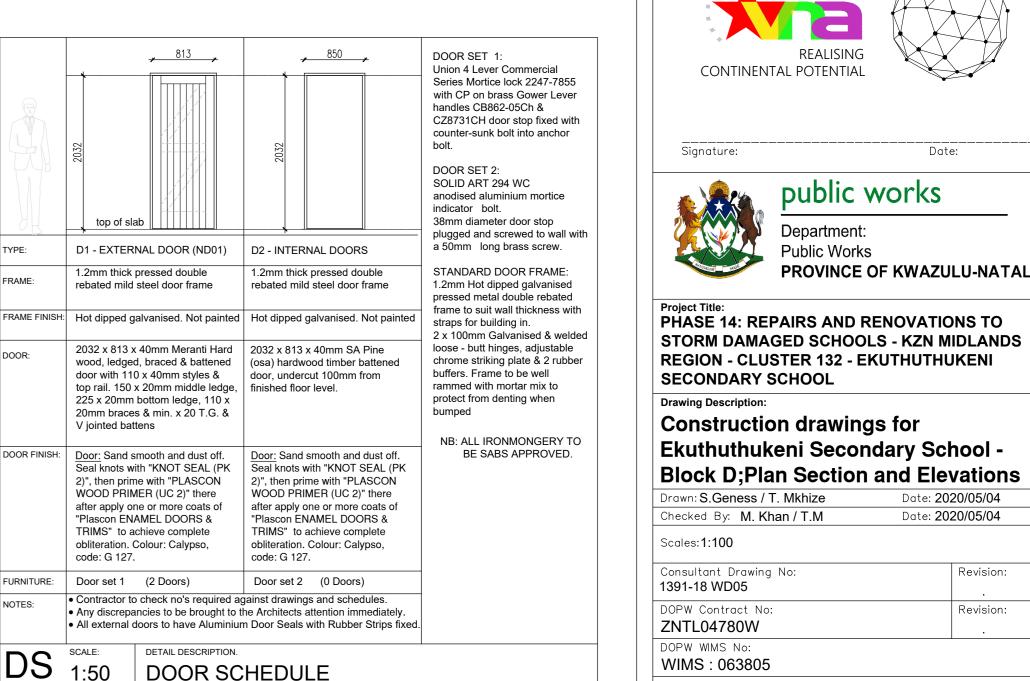
1x Magnetic Eraser 1x Cleaning Fluid 250 ml 4 x moulded magnets d day PINING BOARD:

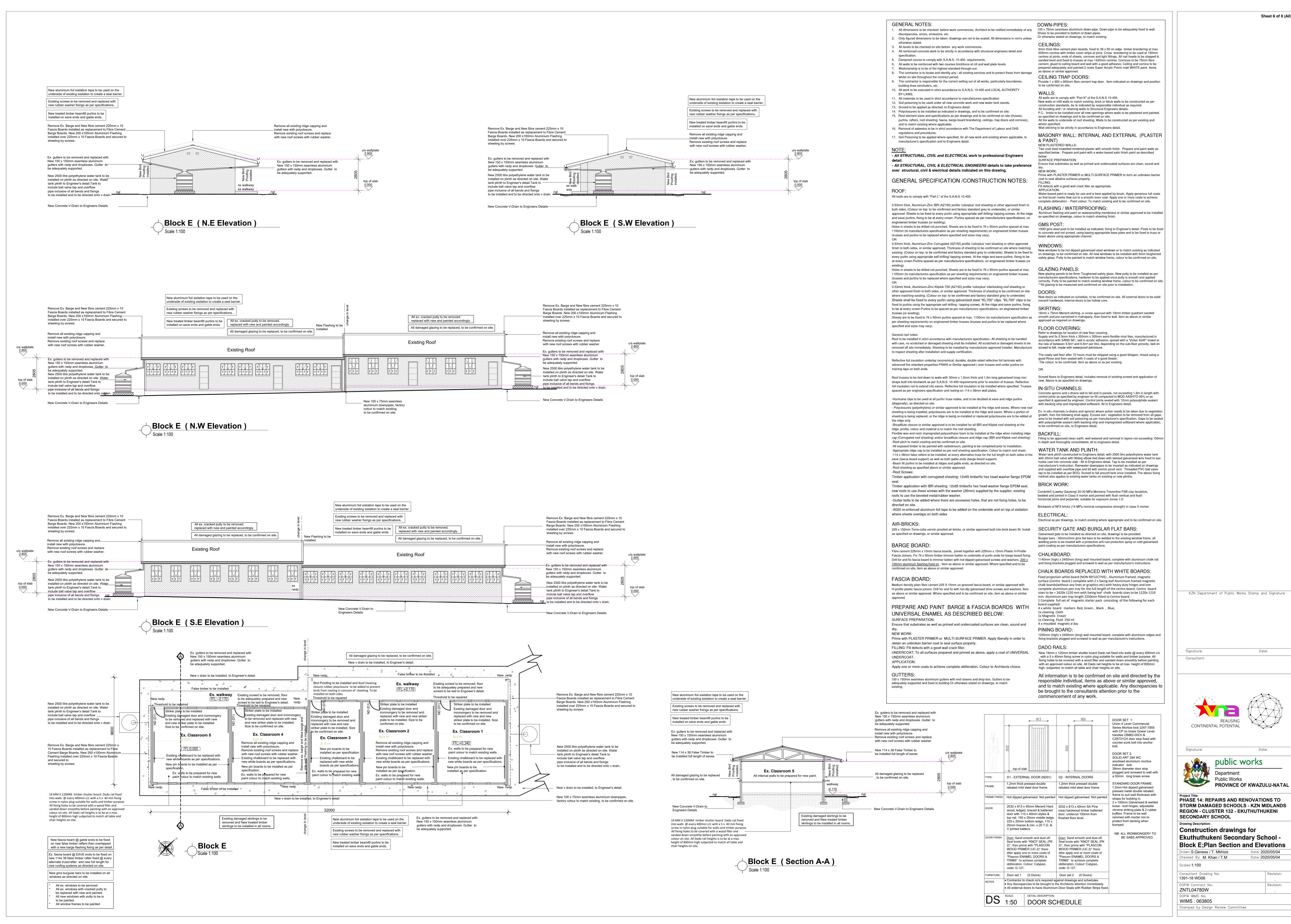
1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and fixing brackets plugged and screwed to wall as per manufacturer's instructions. DADO RAILS:

New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, subjected, to match all table and chair heights on site.

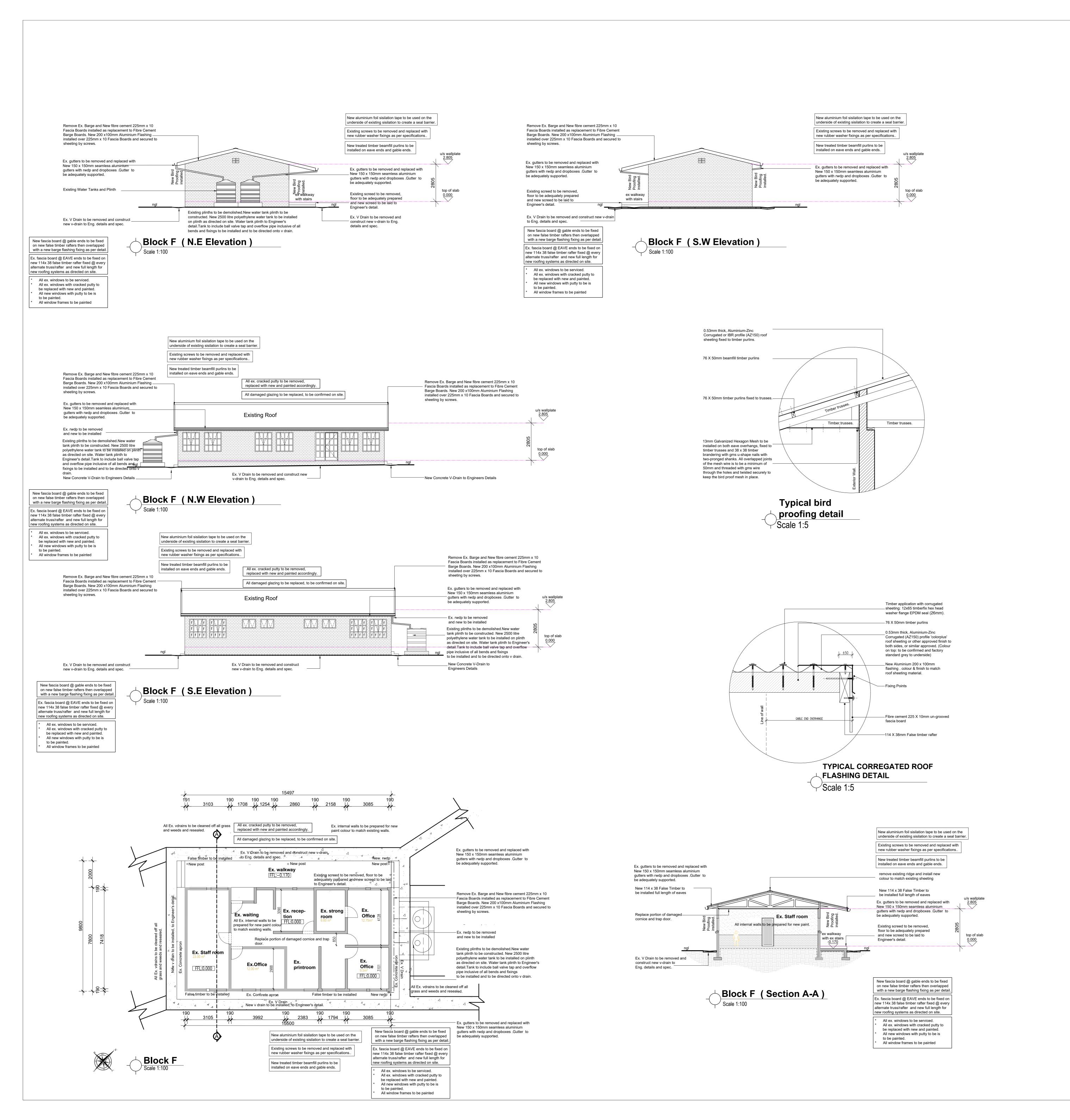
All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved, and to match existing where applicable. Any discrepancies to be brought to the consultants attention prior to the commencement of any work.







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GENERAL NOTES:

All dimensions to be checked before work commences. Architect to be notified immediately of any 100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. discrepancies, errors, omissions, etc.

2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.

 All levels to be checked on site before any work commences. . All reinforced concrete work to be strictly in accordance with structural engineers detail and

5. Damproof course to comply with S.A.N.S. 10-400 requirements. 6. All walls to be reinforced with two courses brickforce at cill and wall plate levels. . Workmanship is to be of the highest standard through-out.

3. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period. . The contractor is responsible for the correct setting out of all works, particularly boundaries,

building lines servitude's, etc. 10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS. 1. All materials to be used in strict accordance to manufacturers specification

12. Soil poisoning to be used under all new concrete work and new water tank stands. Screed to be applied as directed, to Engineers detail. 14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.

15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.

16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures. 7. Soil Poisoning to be applied where specified, for all new work and existing where applicable, to manufacturer's specification and to Engineers detail.

- All STRUCTURAL, CIVIL and ELECTRICAL work to professional Engineers

- All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS details to take preference over structural, civil & electrical details indicated on this drawing.

GENERAL SPECIFICATION /CONSTRUCTION NOTES:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

both sides. (Colour on top: to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge Aluminum flashing and paint on waterproofing membrane or similar approved to be installed and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting or other approved finish to

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colorplus' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top: to be confirmed and factory standard grey to underside). Sheets to be fixed to every purlin using appropriate self drilling/ tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max.

GLAZING PANELS: 1100mm (to manufacturers specification as per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary). 0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' interlocking roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site

where matching existing. (Colour on top: to be confirmed and factory standard grey to underside) Sheets shall be fixed to every purlin using galvanized steel "KL700" clips. "KL700" clips to be fixed to purlins using the appropriate self drilling / tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber trusses (or existing) Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as smooth and pre-varnished in mahogany, then fixed to wall. Item as above or similar

per sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary). General roof notes:

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled

removed off site immediately. Sheeting to be installed by manufacturer approved installer, Manufacturer screed to fall, made with waterproof admixture

to inspect sheeting after installation and supply certification. Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with

advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends. Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron

-Hurricane clips to be used at all purlin/ truss nodes, and to be doubled at eave and ridge purlins

straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses. Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates.

(diagonally), as directed on site. - Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at growth, then the following shall apply. Excess soil / vegetation to be removed from all gaps, the ridge only.

-Broadflute closure or similar approved is to be installed for all IBR and Kliplok roof sheeting at the ridge, profile, colour and material is to match the roof sheeting. Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge BACKFILL

-Roof pitch to match existing and be confirmed on site. -All exposed timber to be painted with carbolineum, painting to be completed prior to installation. -Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet. -114 x 38mm false rafters to be installed, at every alternative truss for the full length on both sides of the Water tank plinth constructed to Engineers detail, with 2500 litre polyethylene water tank eave (fascia board support) as well as both gable ends (barge board support). -Beam fill purlins to be installed at ridges and gable ends, as directed on site. -Roof sheeting as specified above or similar approved.

-Roof Screws: Timber application with corrugated sheeting: 12x65 timberfix hex head washer flange EPDM Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws with the washer (26mm) supplied by the supplier, existing

roofs to use the beveled metal/rubber washer. -Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be -A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation

where sheets overlaps on both sides AIR-BRICKS:

as specified on drawings, or similar approved.

BARGE BOARD:

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joiners. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing fixed on . Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

approved.

Medium density plain fibre cement 225 X 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix with hot-dip galvanised drive screws and washers. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW: SURFACE PREPARATION:

NEW WORK: Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and

obtain an unbroken barrier coat to seal surface properly. FILLING: Fill defects with a good wall crack filler. UNDERCOAT: To all surfaces prepared and primed as above, apply a coat of UNIVERSAL UNDERCOAT.

APPLICATION: Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

150 x 150mm seamless aluminium gutters with end closers and drop box. Gutters to be adequately supported and fixed to building Or otherwise stated on drawings, to match

Shoes to be provided to bottom of down-pipes. Or otherwise stated on drawings, to match existing.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polvin matt WHITE paint. Items as above or similar approved.

CEILING TRAP DOORS Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position to be confirmed on site.

All walls are to comply with "Part K" of the S.A.N.S 10-400.

New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, be to indicated by responsible individual as required. All founding and / or retaining walls to Structural Engineers details. P.C. lintols to be installed over all new openings where walls to be plastered and painted, as specified on drawings and to be confirmed on site. All fire walls to underside of roof sheeting. Walls to be constructed as per existing and where specified.

Wall stitching to be strictly in accordance to Engineers detail. MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT)

NEW PLASTERED WALLS: Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water-based satin finish paint as described SURFACE PREPARATION:

Ensure that substrates as well as primed and undercoated surfaces are clean, sound and Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an unbroken barrier

coat to seal alkaline surfaces properly. Fill defects with a good wall crack filler as appropriate.

FLASHING / WATERPROOFING:

APPLICATION: Water-based paint is ready for use and is best applied by brush. Apply generous full coats so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. - Paint colour: To match existing and to be confirmed on site.

as specified on drawings, colour to match sheeting finish.

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, using basing appropriate base plate and to be fixed to truss or

beam above using appropriate channel.

New windows to be hot dipped galvanised steel windows or to match existing as indicated on drawings, to be confirmed on site. All new windows to be installed with 6mm toughened

safety glass. Putty to be painted to match window frame, colour to be confirmed on site.

New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per manufacturers specifications, hardener to be applied once putty is smooth and applied

correctly. Putty to be painted to match existing window frame, colour to be confirmed on site. *All glazing to be measured and confirmed on site prior to installation. New doors as indicated on schedule, to be confirmed on site. All external doors to be solid

meranti hardwood, internal doors to be hollow core. 18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded

approved as required on drawings.

FLOOR COVERING: Refer to drawings for location of new floor covering. Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinyl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a 'Vicker A24F' trowel at with care, no scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be the rate of between 5.5m² and 6.5m² per litre, depending on the sub-floor porosity, laid on

> The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer. Tile colour: to be confirmed. Item as above or as per existing.

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

N-SITU CHANNELS: Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide sealant with backing strip and impregnated softboard. All to Engineers detail.

Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

cap (Corrugated roof sheeting) and/or broadflute closure and ridge cap (IBR and Kliplok roof sheeting). Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated, all to engineers detail.

> WATER TANK AND PLINTH: with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed to eve hooks cast into concrete slab - All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve

tap to be installed as per BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths. BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine FSB clay facebrick, bedded and jointed in Class II mortar and pointed with flush vertical and flush

horizontal joints and perpends, suitable for exposure zones 1-2: Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar:

ELECTRICAL:

Electrical as per drawings, to match existing where appropriate and to be confirmed on site. 229 x 152mm Terra-cotta vermin proofed air-bricks, or similar approved built into brick beam fill. Install SECURITY GATE AND BURGLAR FLAT BARS: Galvanised gate to be installed as directed on site, drawings to be provided.

Burglar bars - 30mmx3mm gms flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti rust protection spray or cold galvanised paint coating as per manufacturers specifications.

1140mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

CHALK BOARDS REPLACED WITH WHITE BOARDS: Fixed projection white board (NON REFLECTIVE), Aluminium framed, magnetic surface (Centre board) complete with 2 x Swing leaf Aluminium framed magnetic chalk boards(without any lines or graphics etc) with heavy duty hinges and one complete aluminium pen tray for the full length of the centre board. Centre board sizes to be = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.

1 Complete full set of magnetic starter pack consisting of the following for each board supplied: 4 x white board markers Red, Green , Black , Blue. 1x cleaning Cloth 1x Magnetic Eraser

1x Cleaning Fluid 250 ml 4 x moulded magnets d day PINING BOARD: 1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and

commencement of any work.

door with 110 x 40mm styles & door, undercut 100mm from

Contractor to check no's required against drawings and schedules.

• Any discrepancies to be brought to the Architects attention immediately.

All external doors to have Aluminium Door Seals with Rubber Strips fixed

top rail. 150 x 20mm middle ledge, finished floor level.

225 x 20mm bottom ledge, 110 x

20mm braces & min. x 20 T.G. &

Door: Sand smooth and dust off.

2)", then prime with "PLASCON

after apply one or more coats of

Plascon ENAMEL DOORS &

TRIMS" to achieve complete

obliteration. Colour: Calypso,

WOOD PRIMER (UC 2)" there

Seal knots with "KNOT SEAL (PK

V jointed battens

code: G 127.

FURNITURE: Door set 1 (15 Doors)

fixing brackets plugged and screwed to wall as per manufacturer's instructions. DADO RAILS: New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c

, with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, subjected, to match all table and chair heights on site. All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved,

be brought to the consultants attention prior to the

and to match existing where applicable. Any discrepancies to

DOOR SET 1: Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor DOOR SET 2: SOLID ART 294 WC anodised aluminium mortice indicator bolt. 38mm diameter door stop a 50mm long brass screw. D1 - EXTERNAL DOOR (ND01) D2 - INTERNAL DOORS STANDARD DOOR FRAME .2mm thick pressed double 1.2mm thick pressed double rebated mild steel door frame rebated mild steel door frame FRAME FINISH: Hot dipped galvanised. Not painted Hot dipped galvanised. Not painted straps for building in. 2032 x 813 x 40mm Meranti Hard | 2032 x 813 x 40mm SA Pine wood, ledged, braced & battened (osa) hardwood timber battened

Door: Sand smooth and dust off.

Seal knots with "KNOT SEAL (PK

2)", then prime with "PLASCON

WOOD PRIMER (UC 2)" there

"Plascon ENAMEL DOORS &

TRIMS" to achieve complete

obliteration, Colour; Calypso,

Door set 2 (0 Doors)

code: G 127.

after apply one or more coats of

plugged and screwed to wall with 1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when NB: ALL IRONMONGERY TO BE SABS APPROVED.

Drawing Description: Construction drawings for **Ekuthuthukeni Secondary School -Block F;Plan Section, Elevations & Details**

SECONDARY SCHOOL

PHASE 14: REPAIRS AND RENOVATIONS TO

REGION - CLUSTER 132 - EKUTHUTHUKENI

STORM DAMAGED SCHOOLS - KZN MIDLANDS

CONTINENTAL POTENTIAL

KZN Department of Public Works Stamp and Signature

Date:

Date:

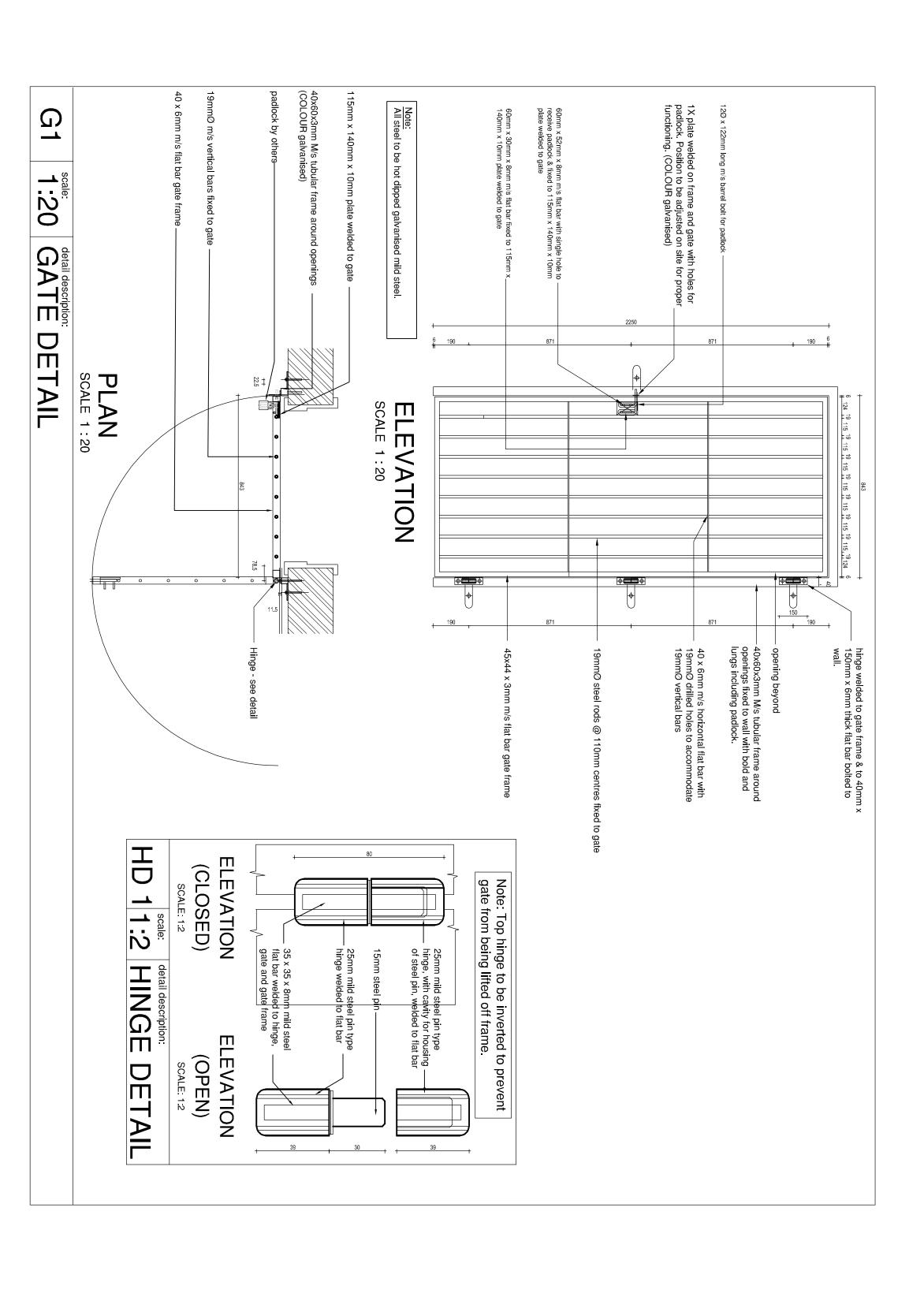
PROVINCE OF KWAZULU-NATAL

Signature:

Drawn: **S.Geness / T. Mkhize** Date: **2020/05/04** Date: **2020/05/04** Checked By: M. Khan / T.M Scales:1:100 Consultant Drawing No Revision: 1391-18 WD07 DOPW Contract No: Revision:

ZNTL04780W DOPW WIMS No: WIMS: 063805 Stamped by Design Review Committee

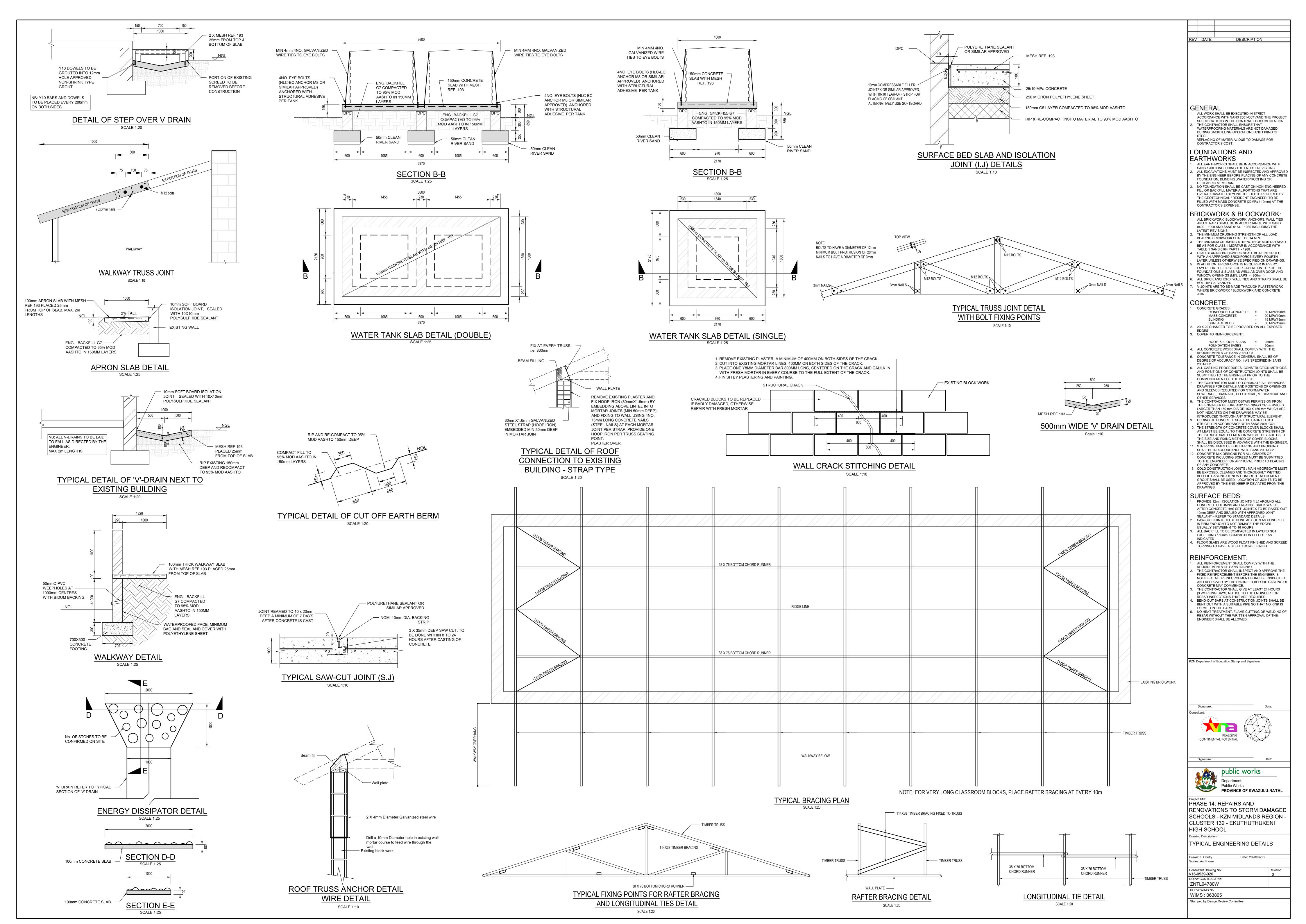
NB: All dimensions to be confirmed on site

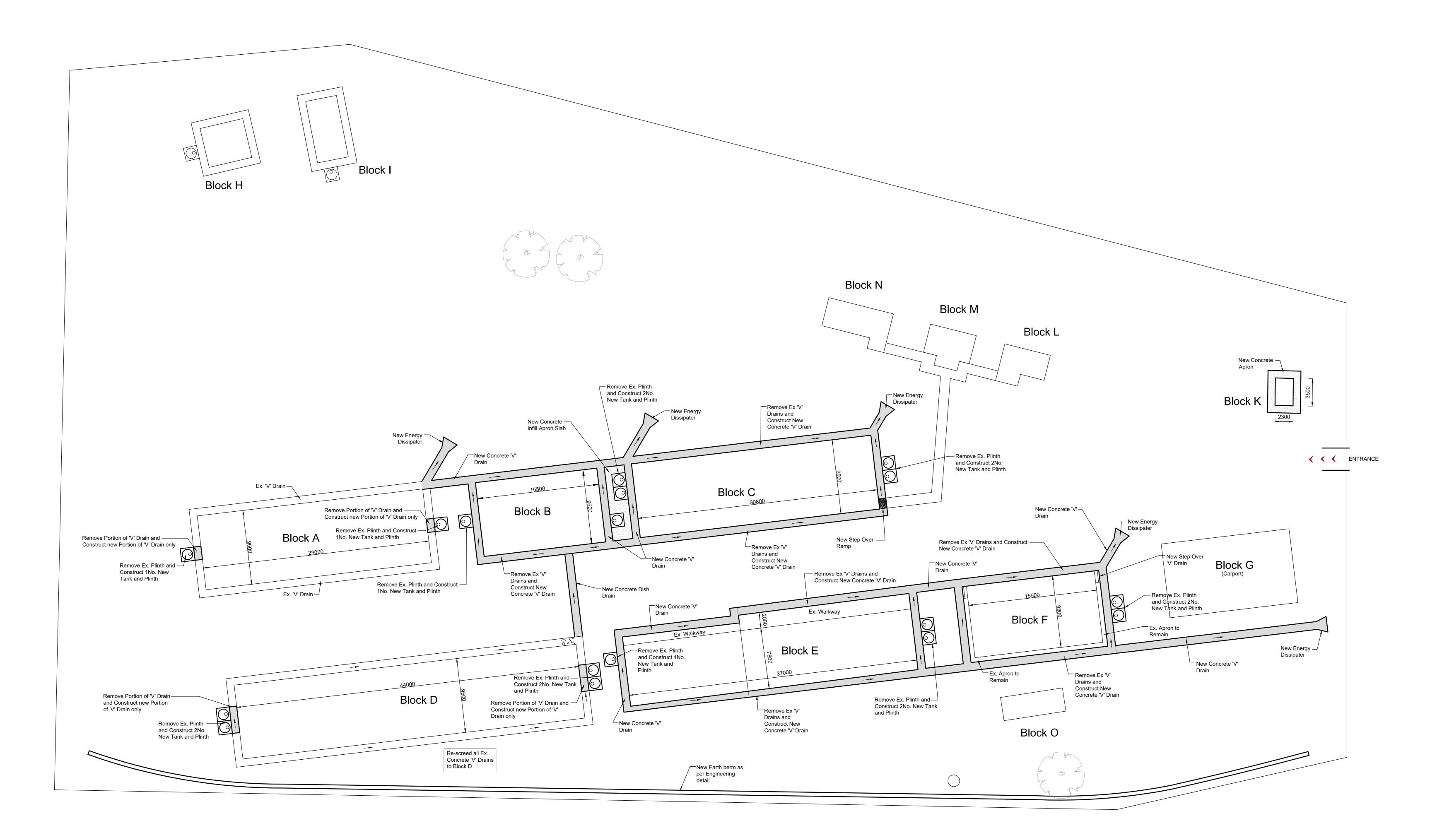




DOPW WIMS No: WIMS: 063805

Stamped by Design Review Committee





Site Plan
Scale 1:200

GENERAL

ALL WORK SHALL BE EXECUTED IN STRICT
ACCORDANCE WITH SANS 2001-CC1VAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION. THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL. REPLACING OF MATERIAL DUE TO DAMAGE FOR CONTRACTOR'S COST.

FOUNDATIONS AND

EARTHWORKS ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH

SANS 1200 D INCLUDING THE LATEST REVISIONS.
2. ALL EXCAVATIONS MUST BE INSPECTED AND BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING ,WATERPROOFING OR GEOFABRIC MEMBRANE. NO FOUNDATION SHALL BE CAST ON NON-ENGINEERED FILL OR BACKFILL MATERIAL.PORTIONS THAT ARE OVER-EXCAVATED BEYOND THE DEPTH REQUIRED BY

THE GEOTECHNICAL / RESIDENT ENGINEER, TO BE FILLED WITH MASS CONCRETE (20MPa / 19mm) AT THE CONTRACTOR'S EXPENSE. BRICKWORK & BLOCKWORK:

AND STRAPS SHALL BE IN ACCORDANCE WITH SANS 0400 - 1990 AND SANS 0164 - 1980 INCLUDING TH LATEST REVISIONS.
THE MINIMUM CRUSHING STRENGTH OF ALL LOAD

I. ALL BRICKWORK, BLOCKWORK, ANCHORS, WALL TIES

- BEARING BRICKWORK SHALL BE 14 MPa. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALI
- BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SANS 0164 PART I - 1980.
 4. LOAD BEARING BRICKWORK SHALL BE REINFORCED
- WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- IN ADDITION, BRICKFORCE IS REQUIRED IN EVERY LAYER FOR THE FIRST FOUR LAYERS ON TOP OF THE FOUNDATIONS & SLABS AS WELL AS OVER DOOR AND
- WINDOW OPENINGS (MIN. LAPS = 300mm) ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED. V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK

WHERE BRICKWORK / BLOCKWORK AND CONCRETE

CONCRETE: CONCRETE GRADES:

REINFORCED CONCRETE = 30 MPa/19mm MASS CONCRETE = 20 MPa/19mm SURFACE BEDS = 30 MPa/19mm 20 X 20 CHAMFER TO BE PROVIDED ON ALL EXPOSED

- COVER TO REINFORCEMENT:
- ROOF & FLOOR SLABS = 25mm FOUNDATION BASES = 50mm
 ALL CONCRETE WORK SHALL COMPLY WITH THE
- REQUIREMENTS OF SANS 2001-CC1. CONCRETE TOLERANCE IN GENERAL SHALL BE OF
- DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE
- SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT. THE CONTRACTOR MUST CO-ORDINATE ALL SERVICES DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS
- AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES
- THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE ENGINEER BEFORE ANY OPENINGS OR SERVICES LARGER THAN 150 mm DIA OR 150 X 150 mm WHICH ARE NOT INDICATED ON THE DRAWINGS MAY BE
- INTRODUCED THROUGH ANY STRUCTURAL ELEMENT. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 2001-CC1.
- AT LEAST BE EQUAL TO THE CONCRETE STRENGTH OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED.
- THE SIZE AND FIXING METHOD OF COVER BLOCKS SHALL BE DISCUSSED IN ADVANCE WITH THE ENGINEER STRIPPING TIMES OF SHUTTERING AND PROPPING
- SHALL BE IN ACCORDANCE WITH SANS 2001-CC1. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING SCREED MUST BE SUBMITTED
- TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING OF ANY CONCRETE. 3. COLD CONSTRUCTION JOINTS; MAIN AGGREGATE MUST
- BE EXPOSED, CLEANED AND THOROUGHLY WETTED
 BEFORE CASTING OF NEW CONCRETE. NO CEMENT GROUT SHALL BE USED. LOCATION OF JOINTS TO BE APPROVED BY THE ENGINEER IF DEVIATED FROM THE DRAWINGS.

SURFACE BEDS: PROVIDE 12mm ISOLATION JOINTS (I.J.) AROUND ALL

CONCRETE COLUMNS AND AGAINST BRICK
WALLS. AFTER CONCRETE HAS SET, JOINTEX TO BE RAKED OUT 10mm DEEP AND SEALED WITH APPROVED

- JOINT SEALANT REFER TO STANDARD DETAILS. SAW-CUT JOINTS TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH TO NOT DAMAGE THE EDGES. USUALLY BETWEEN 6 TO 16 HOURS.
- ALL BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm. COMPACTION EFFORT : AS
- FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREED TOPPING TO HAVE A STEEL TROWEL FINISH

REINFORCEMENT:

ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 920-2011. THE CONTRACTOR SHALL INSPECT AND APPROVE THE

- FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CASTING OF
- CONCRETE MAY COMMENCE. THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS
- (3 WORKING DAYS) NOTICE TO THE ENGINEER FOR REBAR INSPECTIONS THAT ARE REQUIRED.

 BEND-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT-OUT BARS AT CONSTRUCTION JOINTS SHALL BE
- FORMED IN THE BARS.

 NO HEAT TREATMENT, FLAME CUTTING OR WELDING OF REBAR WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE ALLOWED.

KZN Department of Education Stamp and Signature





PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION -CLUSTER 132 - EKUTHUTHUKENI

ILLUSTRATION SITE PLAN OF ENGINEERING WORKS FOR EKUTHUTHUKENI HIGH

Consultant Drawing No: V16-0539-026a DOPW CONTRACT No: ZNTL04780W DOPW WIMS No: WIMS: 063805 Stamped by Design Review Committee

SCHEDULE NO. 01

1 NAME : DISTRIBUTION BOARD

2 LOCATION : GROUND FLOOR AS INDICATED ON DRAWINGS

3 FED FROM : MAIN DB

4 FEEDER : 10mm²/2 CORE CONCENTRIC CABLE WITH EARTH

5 MAIN SWITCH : 63A DOUBLE POLE ISOLATOR

6 FAULT LEVEL : 5kA

7 MOUNTING : FLUSH MOUNT/@1800mm AFFL TO TOP OD DB

8 TYPE : LOCKABLE DOORS WITH ACCESSIBLE MAIN SWITCH

9 COLOUR : WHITE

10 SINGLE POLE CIRCUIT BREAKERS

Circuits 1 - 2

2 x 15A - External Lighting

Circuits 3 - 5

3 x 15A - Internal Lighting

Circuits 6 - 9

4 x 20A - Switched Socket Outlets

Circuit 10

1 x 20A - Dedicated Socket Outlets

Circuit 11

1 x 20A - Hydroboil Isolator

Circuit 12

1 x 5A - Bypass Switch

Circuit 13

1 x 45A - Feed to Next Block

11 OTHER EQUIPMENT

1 x set 63A Single phase and neutral busbars

1 x 30mA, 60A double pole earth leakage units without overload protection Earth bars

Typed legend cards

Engraved trofolyte main labels reflecting items 1, 3, 4, 5 & 6 above

12 SPECIAL INSTRUCTIONS

Distribution board to have a minimum 30% spare capacity in all sections