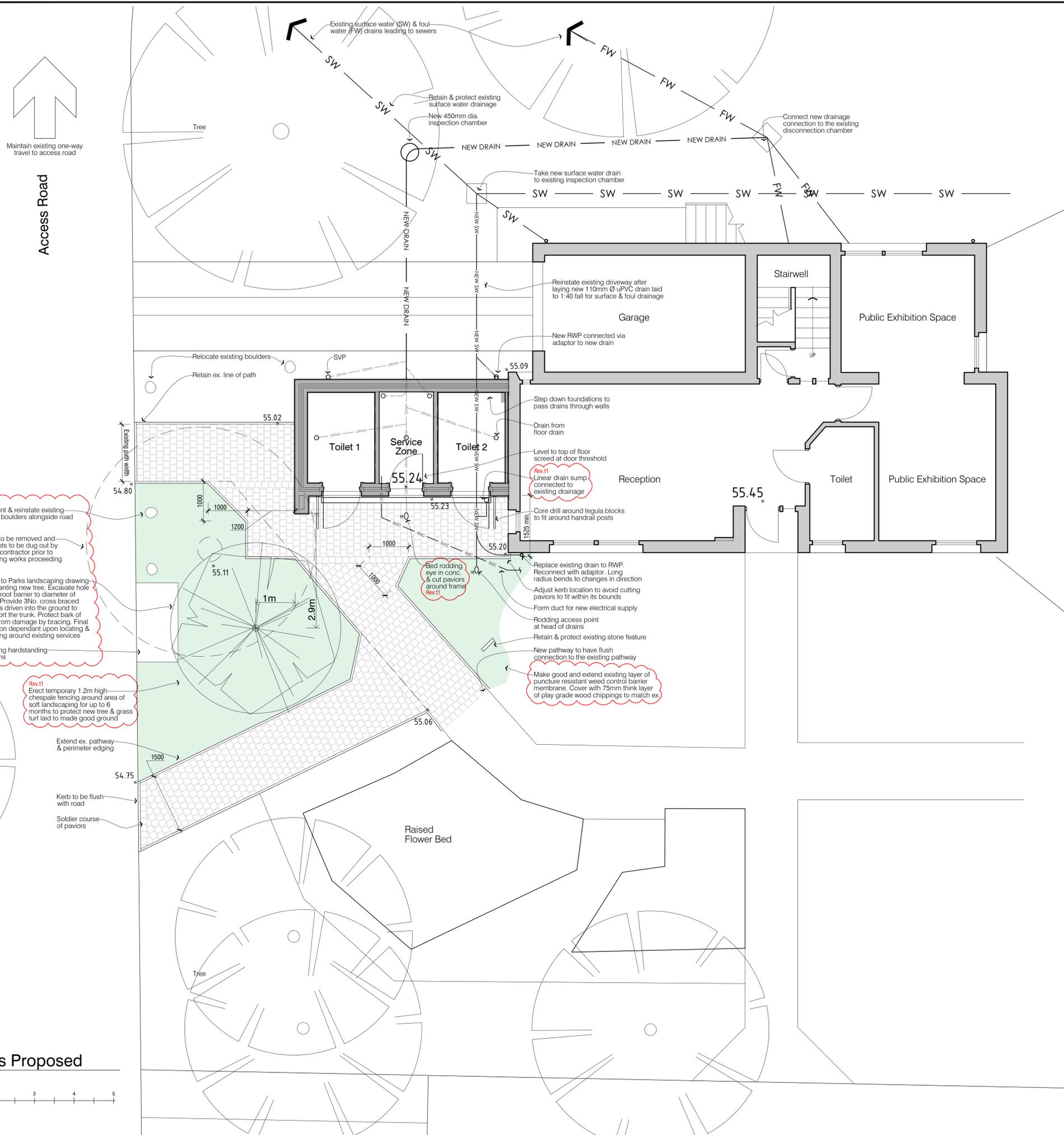


General Notes

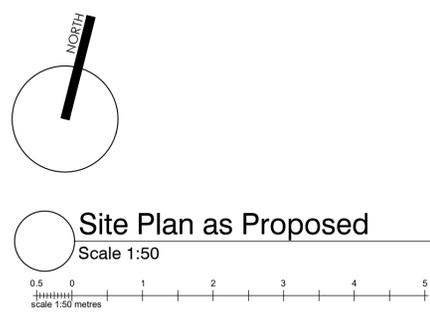
- Existing Site & Surrounding Area** : The site is part of a public park, close to a narrow one way access road & car parks, all which must be kept open at all times. The Rangers Centre is used as an office for staff and a resource partially open to the public. Public & staff access to be maintained from Car Park 4 to the front door. Staff use the Garage for storing materials. Access to the driveway & garage to be maintained, unless previously agreed with Head Ranger. Contractor will not be able to use existing facilities & services, other than to extend services to the extension. Demolition works to the Lochside Leisure Centre may be ongoing while the toilet works are ongoing. Main Contractors are expected to liaise with one another on both projects to allow works to proceed. The area is a known target for vandalism. Main Contractor to ensure that the site is protected & maintained during the project period.
- Working Area** : 2.0m high heras fencing to site boundaries with gate access for deliveries & staff entry. Allow for triangulating panels or other alternative means to ensure that the fencing is sound & secure at all times.
- Site Compound & Facilities** : Secure compound to be formed in Car Park 4 (south of building). Car Park to be shared with staff & public, to allow continued access to the building. 2.0m high heras fencing with gate to boundary. Main Contractor to supply & maintain secure office, storage, toilet & skip units within the compound.
- Tree** : Existing tree to be cut back by registered tree surgeon in agreement with Local Authority Parks dept. to reduce the overhanging tree canopy & root system.
- External works to building**
 - Landscaping** : Lift existing grass & retain for relaying upon completion. Water throughout the contract period. Prepare soil prior to relaying turf. Remove existing planting & stone features and lay aside for the Rangers staff to reinstate. Lay fresh tree bark to front garden area.
 - Existing Centre Gable** : Remove existing signage. Allow for refurbishing. Store on site for potential reinstatement. Bat Box : Take possession of bat box, mount on wall at high level at a position to be agreed with the Head Ranger. Remove existing trellis frame & planting to gable.
 - Protect existing glazing adjacent to the works**. Clean all windows after works are complete. Prepare gable for building works, as per drawings.
- Pathway**
 - Uplift existing paviers & kerbing affected by landscaping works. Retain existing Tegula paving & reuse, mixing in with new stock to new pathway layout.
 - New Tegula concrete paviers to match colour, size & form as existing. Machine cut to boundaries. All paving to be laid to 1:60 cross fall unless otherwise indicated. Concrete kerbing to bound all paving. Core drill for fitting around handrails.
 - Pathway to be flush with existing linear drain, 15mm below finished floor level.
- Drains** : Form new 110mm Ø uPVC drains laid at 1:40 min. fall. Laid in 150mm pea gravel bed. Connect to existing drain. Changes in direction to be formed with long radius bends, with rodding access or inspection chamber.
- Services Ducts** : Provide new ducting for electrical & water supplies. Lay warning tape 150mm above service run.



Version	Date	Description
d0	May 2020	Original Issue
t0	10/07/2020	Tender Issue
t1	Aug 2020	Connect linear drain outlet to existing surface water drainage. Drainage to match civil engineers drawings. Existing tree to be replaced

Project Title Proposed Toilet Block Extension, Forfar Loch Rangers Centre, Craig O'Loch Road, Forfar DD8 1BT	 Property Angus House Orchardbank Forfar DD8 1AN
Drawing Title Proposed Site Plan	03452 777 778 assets@angus.gov.uk Scale 1:50 @a1 Date May 2020 Drawn by JGA
Project No. 09611028	Drawing No. 051 Revision t1

Site Plan as Proposed
 Scale 1:50



Rev.11
 Repaint & reinstate existing edge boulders alongside road

Tree to be removed and all roots to be dug out by main contractor prior to building works proceeding

Refer to Parks landscaping drawing for planting new tree. Excavate hole & lay root barrier to diameter of hole. Provide 3No. cross braced stakes driven into the ground to support the trunk. Protect bark of tree from damage by bracing. Final location dependant upon locating & working around existing services

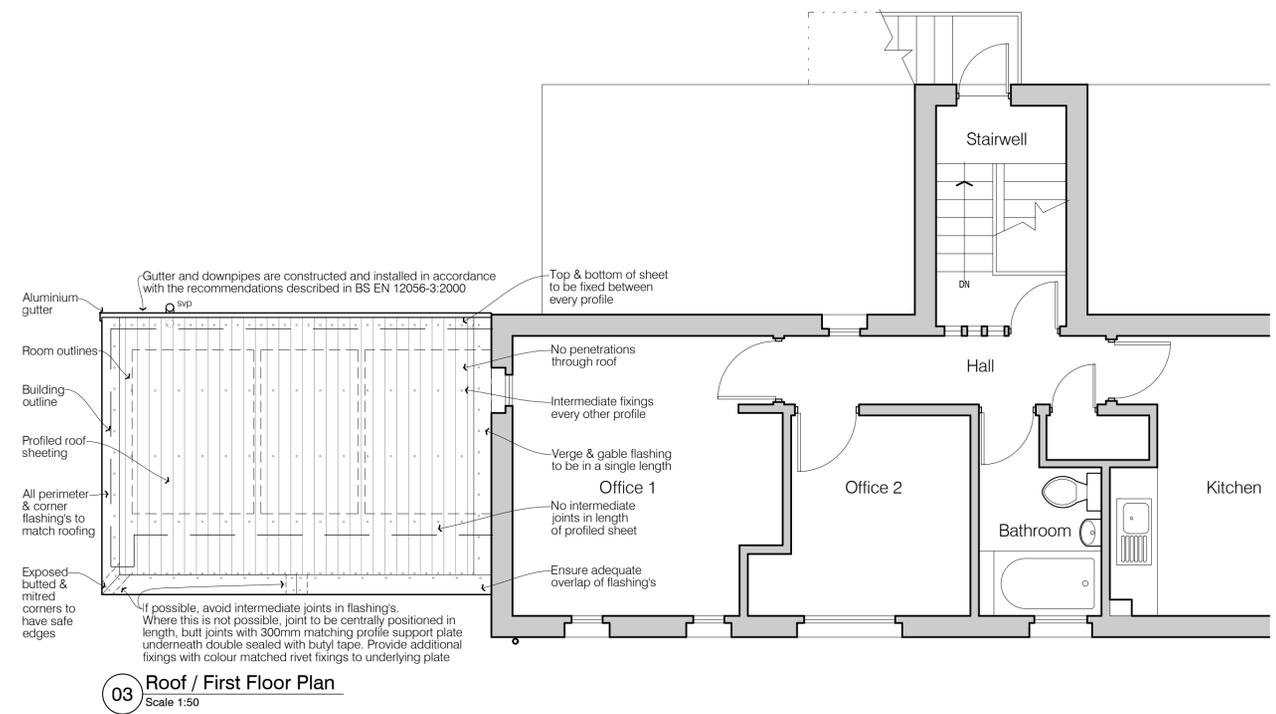
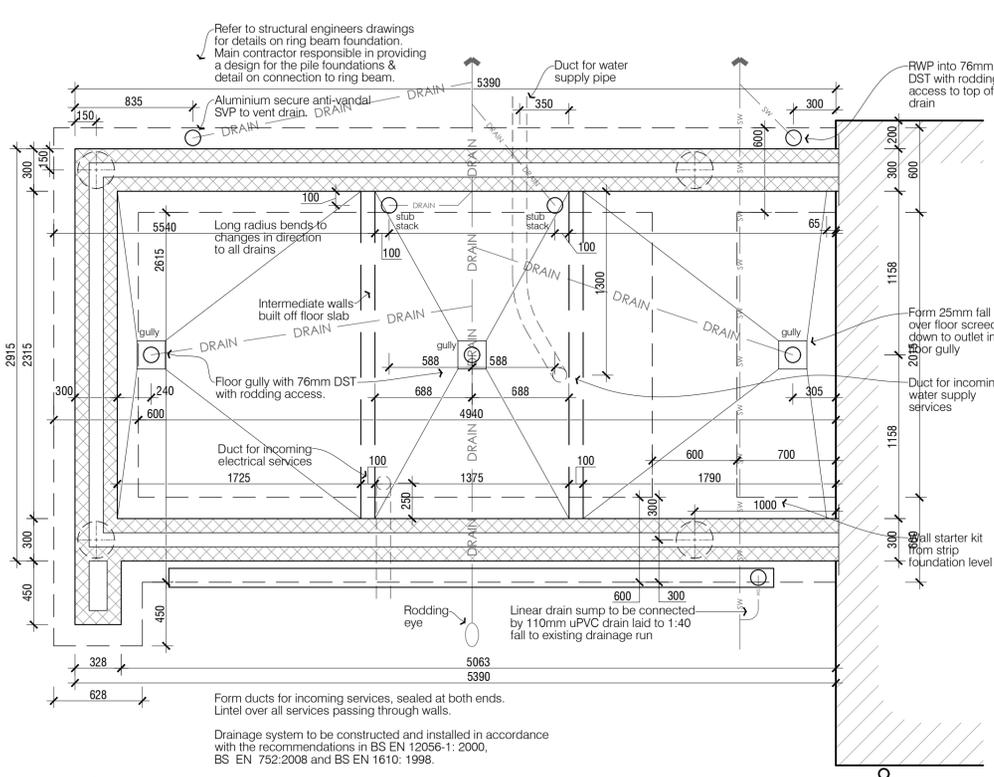
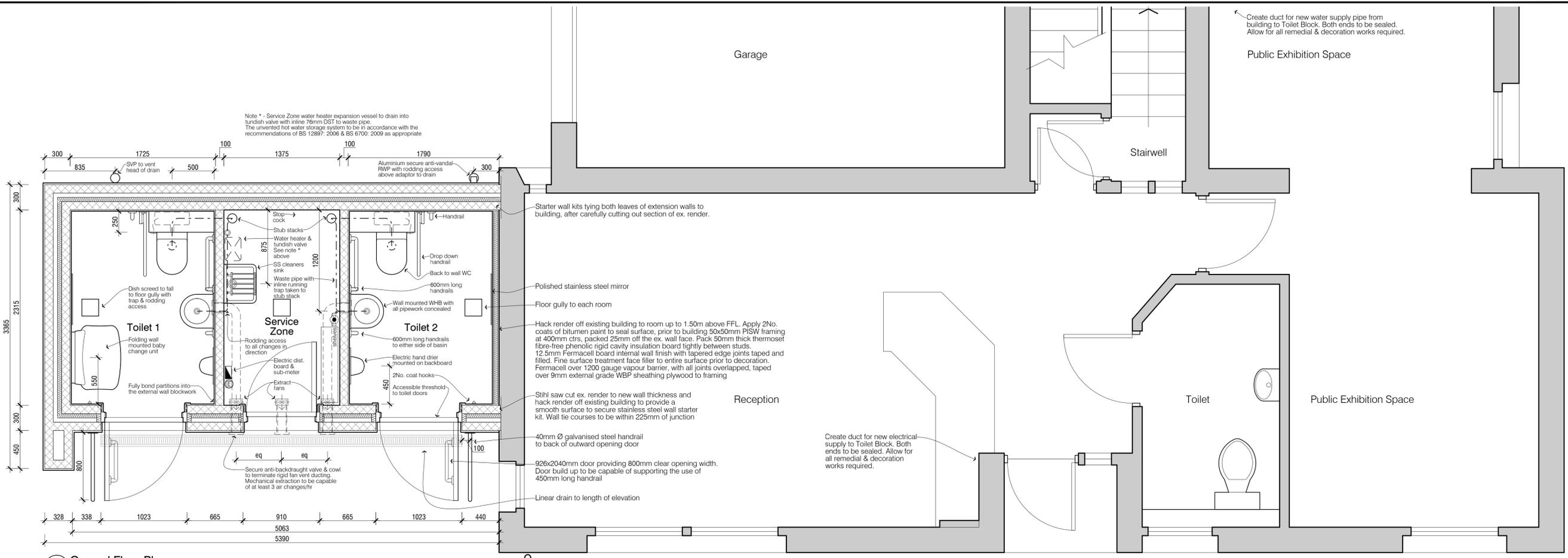
Existing handstanding for bins

Rev.11
 Erect temporary 1.2m high chesepale fencing around area of soft landscaping for up to 6 months to protect new tree & grass turf laid to made good ground

Rev.11
 Linear drain sump connected to existing drainage

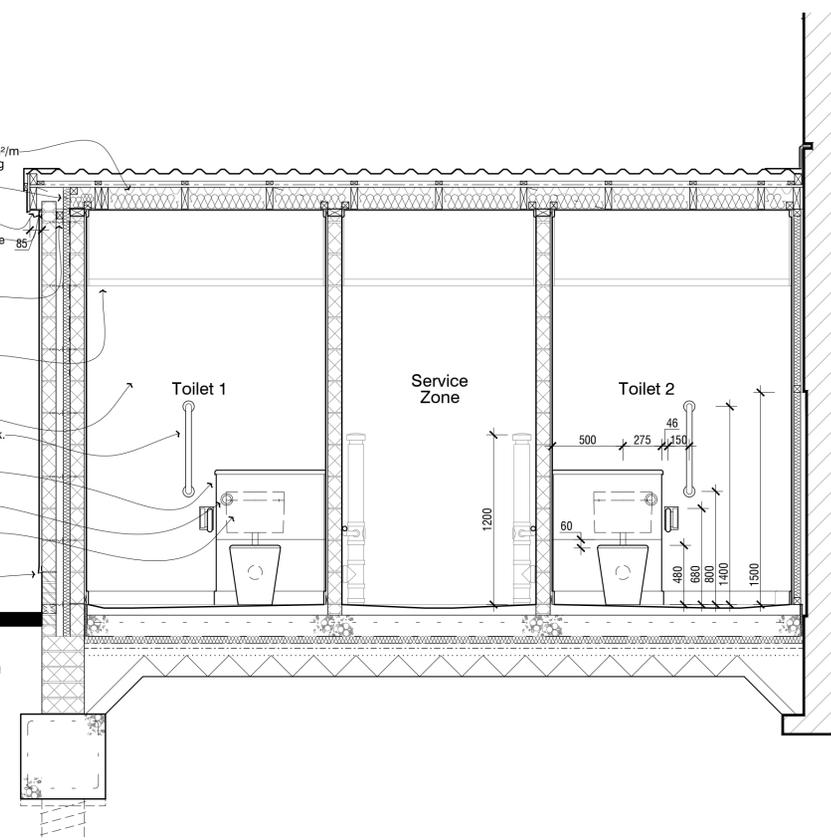
Rev.11
 Bed rodding eye in conc. & cut paviers around frame

Rev.11
 Make good and extend existing layer of puncture resistant weed control barrier membrane. Cover with 75mm thick layer of play grade wood chippings to match ex.



Project Title Proposed Toilet Block Extension, Forfar Loch Rangers Centre, Craig O'Loch Road, Forfar DD8 1BT	Property Angus House Orchardbank Forfar DD8 1AN
Drawing Title Proposed Toilet Block Foundation, Floor & Roof Plans	03452 777 778 assets@angus.gov.uk Scale 1:25 @a1 Date May 2020 1:50 Drawn by JGA
Project No. 09611028	Drawing No. 101
	Revision t1

- Provide roll panel vents to ensure 25,000mm²/m free air flow between ceiling board & decking
- Provide additional support for insulation board extending between gable ladder
- Support soffit board at perimeter & joints
- Stop render stop bead 10mm from underside of soffit. Fill with a strip of expanding foam seal, finished with a polysulphide mastic to match colour of render
- 50x50mm PISW firestop wrapped in DPC at head of cavity.
- Ensure that cavity ties extend up slope not more than 225mm from top of wallhead
- 14mm HW facing with one rounded corner on 35x15mm PISW ground to conceal wall plate & top of wallhead
- Back (WC) walls of toilets to be in a contrasting colour
- Plug & screw handrails through to blockwork. Colour caps to match handrail finish
- Duct to be accessible for cistern with secure access fittings
- Cistern flush controls to be towards the centre of the room in both toilets
- Back to wall WC pan to be securely fixed to cistern framing. Neatly point around pan with a colour matched silicone sealant
- Bellcast render stop bead at DPC level, with facing brickwork basecourse. Perpend weephole at ground level
- 3No. 100x100mm non-composite PCRC lintels with 150mm bearing over drainage
- 9mm fibre cement surround to drain passing under building to prevent entry of vermin.
- 600x600mm thick reinforced concrete ring beam set at level to allow passage of drain surrounded with 150mm pea gravel bed

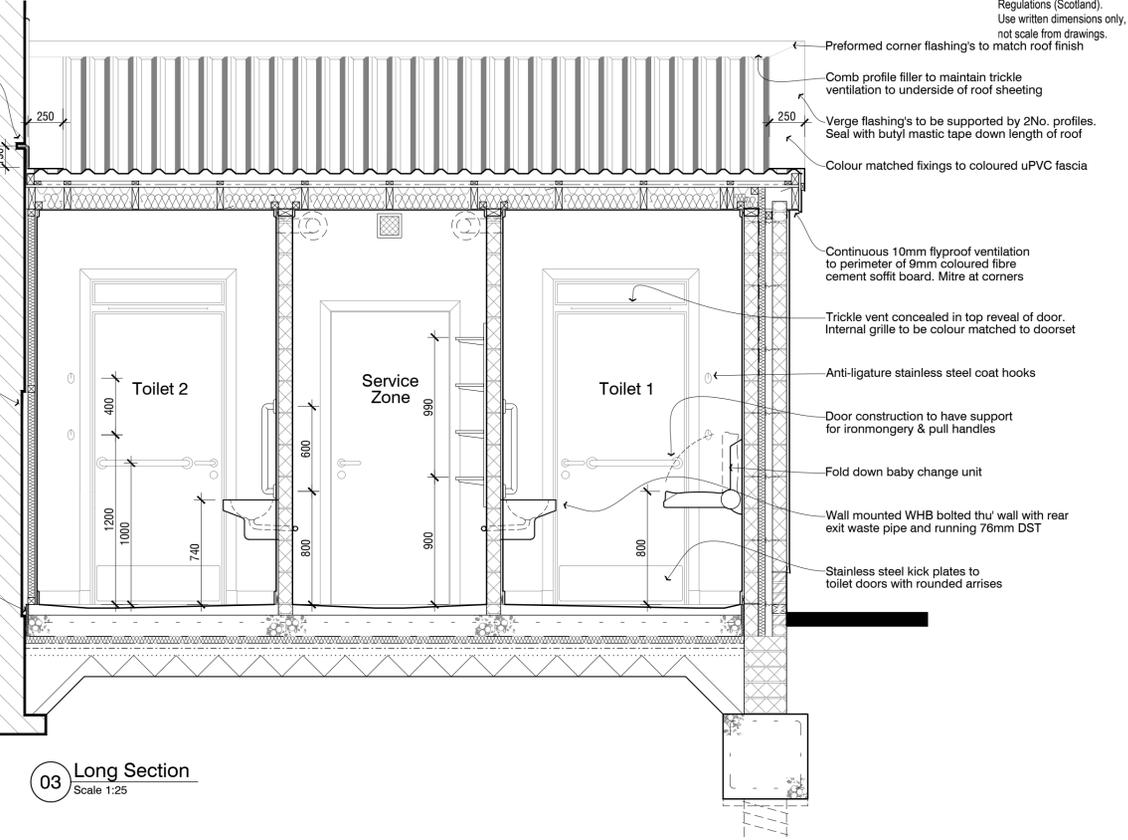


02 Long Section
 Scale 1:25

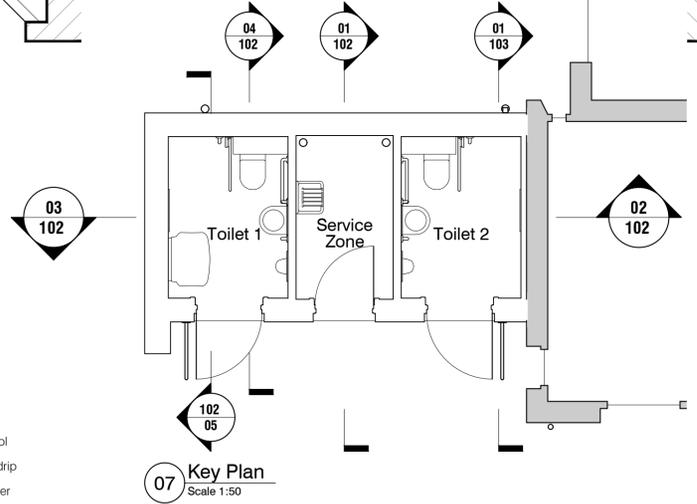
- Dress underlay up wall face & pin under 9mm thick external grade WBP levelling backing board for 2 piece flashing. Secure top flashing plate 45mm min. into raggle in existing wall. Pitch to match new roof.
- Seal raggle with lead wedges & lead mastic sealant.
- Colour caps to match roof finish to fixings to vertical face.

- Apply bitumen paint up to 1.50m above FFL to seal existing wall.
- Strap, line & insulate gable wall in roof.

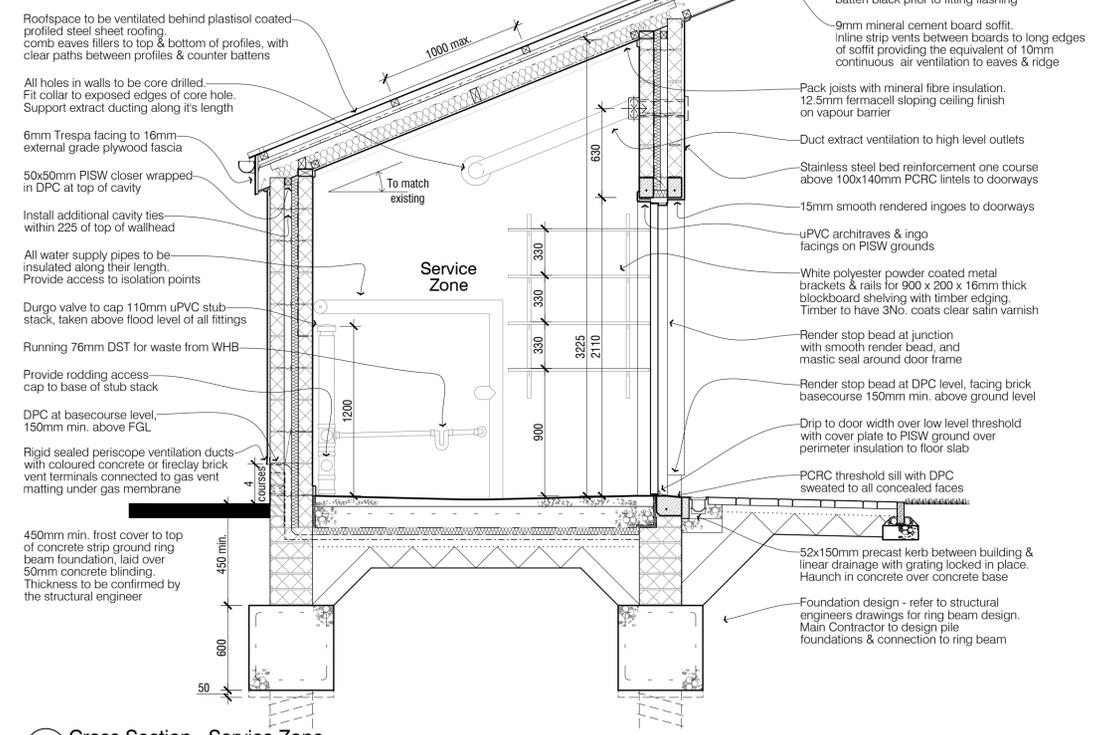
- Perimeter insulation & DPM to floor perimeter
- Seal perimeter of slab & all services penetrations with gas barrier system



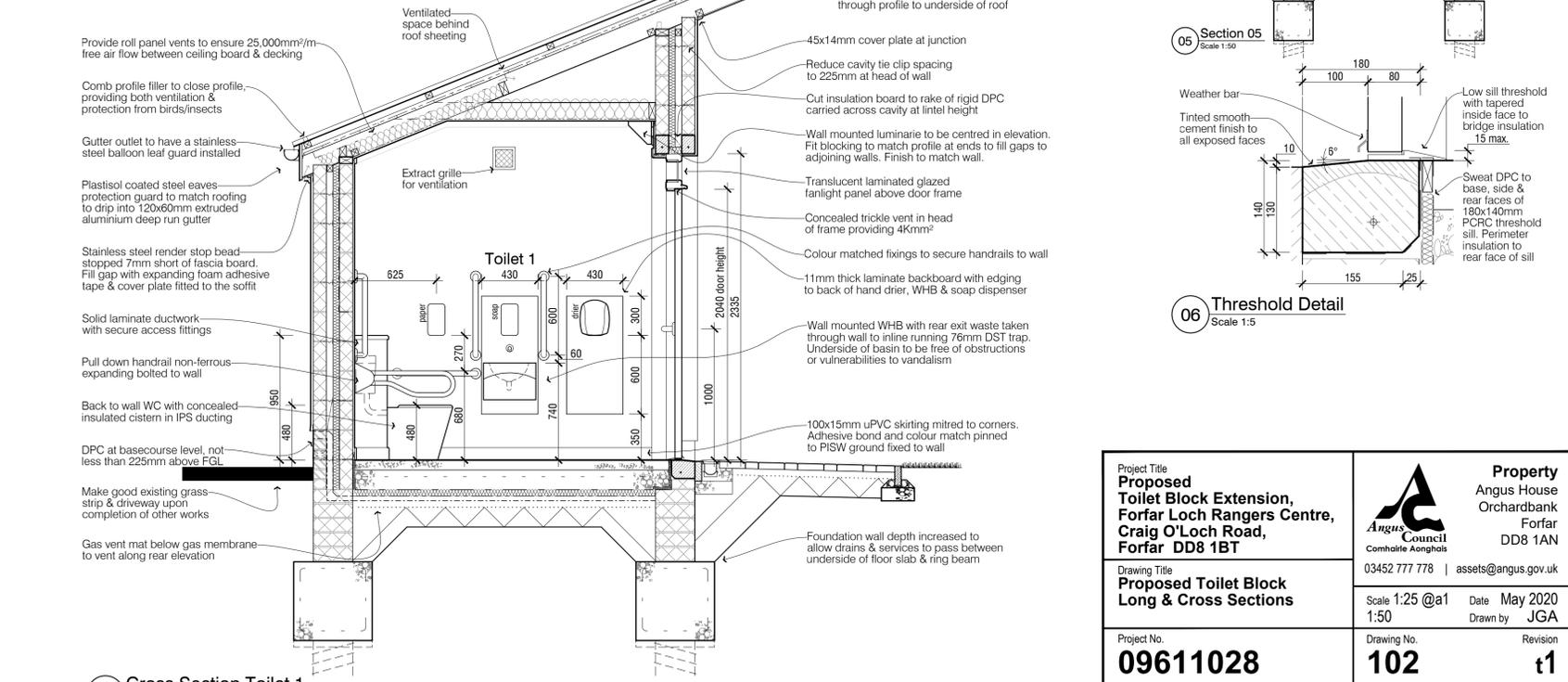
03 Long Section
 Scale 1:25



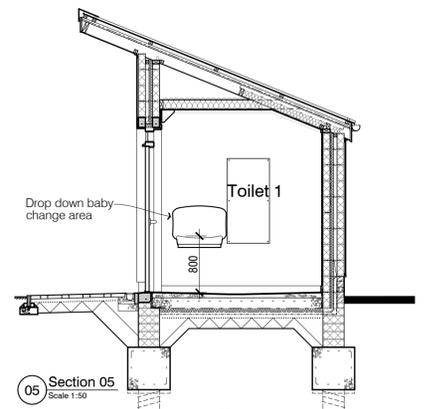
07 Key Plan
 Scale 1:50



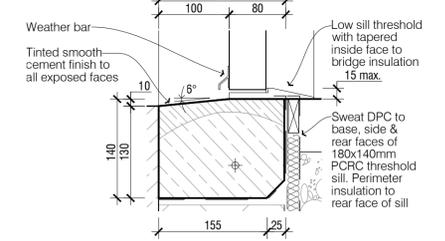
01 Cross Section - Service Zone
 Scale 1:25



04 Cross Section Toilet 1
 Scale 1:25



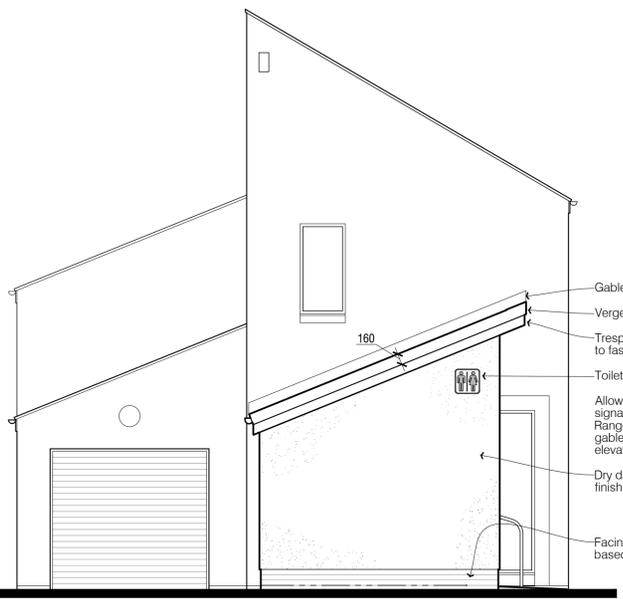
05 Section 05
 Scale 1:50



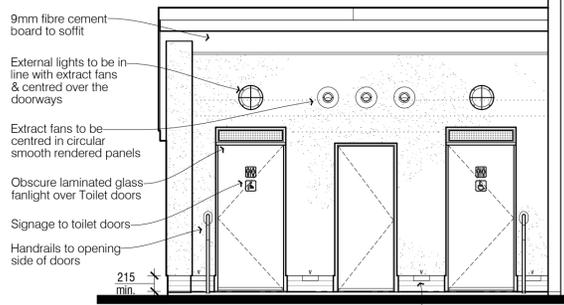
06 Threshold Detail
 Scale 1:5

Project Title Proposed Toilet Block Extension, Forfar Loch Rangers Centre, Craig O'Loch Road, Forfar DD8 1BT	Property Angus House Orchardbank Forfar DD8 1AN
Drawing Title Proposed Toilet Block Long & Cross Sections	03452 777 778 assets@angus.gov.uk
Project No. 09611028	Drawing No. 102
Scale 1:25 @a1 1:50	Date May 2020 Drawn by JGA
Revision t1	Revision

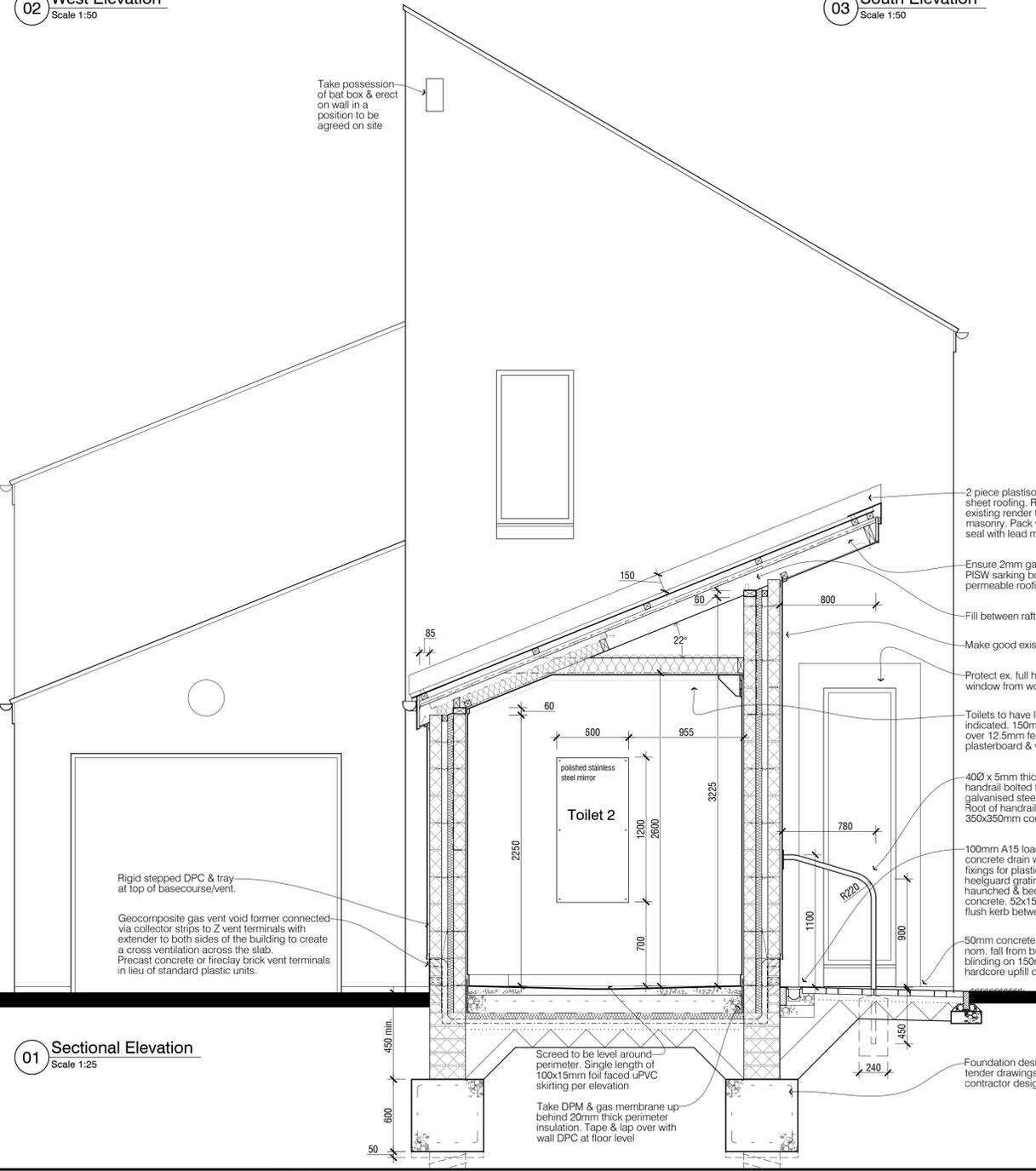
- General Notes**
- Generally : Protect work site from unauthorised access & vandalism. All blockwork/brickwork to be protected after each working day.
 - For structural drawings refer to structural engineers drawings.
 - Groundworks : Existing ground to be confirmed once the Covid-19 lockdown has lifted. Excavate to reduced levels and build up in 150mm layers of consolidated hardcore upfill.
 - Foundations : Foundation ring beam to structural engineers requirements. Allow for excavating in trenches to provide 450mm min. frost cover to top of found. Protect adjacent ground and roadway from subsidence &/or collapse. Foundation levels to be low enough to ensure new & existing drain passes above strip foundation. Lintel over drains passing through wall. Main Contractor to provide a design & build solution for the pile foundations. Ensure capping to piles are designed in liaison with ring beam structural engineers designs.
 - Insulation to the fabric of building is to provide nominal frost protection to building.
 - Floor : 75mm thick sand/cement screed, laid to 25mm fall to floor gully outlet with 76mm DST & rodding access. Scabbled surface of 150mm thick concrete floor slab to provide a key. 1200 gauge DPM polythene separating membrane over 50mm thick floor grade PIR insulation board with 0.022 W/mK thermal conductivity, laid over Visqueen Gas Barrier or equal & approved multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil suitable for use as a DPM, as well as a methane/carbon dioxide & radon barrier. Foil face to be protected from works. To have BBA accreditation & conform to the specification requirements of BS 8485:2015 + A1:2019, BR 211:2015 & all Characteristic Gas Situation (CS) ground gas regimes. To be supplied & installed in accordance with the manufacturers written instructions & details by a contractor experienced in gas barrier installations. To include all accessories, included double sided jointing tape, foil tape lap, preformed top hat units for providing an air tight seal around all services pop ups, corner preformed units and detailing strips for continuation of barrier at perimeters & junctions. Fit proprietary clamping collars to seal around floor gullies. Gas vent matting to comprise a geocomposite void former comprising a cusped high density polyethylene (HDPE) core bonded to a nonwoven polypropylene geotextile filter membrane to the length & width of the building slab. Vent matting to be connected to adjustable Z cavity vent ducting with extension pieces as required with proprietary mat connectors. To be vented to both sides of building to provide cross ventilation. 50mm sand blinding over 150mm min. thick consolidated hardcore upfill. All perforations through the gas membrane to be sealed with fitted proprietary sealed designed each circumstance. To be carried out to achieve 3.5 under BS 8485 and installed in accordance with CIRIA 735.
 - Walls : 21mm thick dry dash render finish to 7.3 N/m² concrete cavity blockwork. 100mm cavity partially filled with 50mm thick thermostat fibre-free phenolic rigid cavity insulation board with 0.018 W/mK thermal conductivity, secured with clips attached to stainless steel cavity wall ties at staggered 900 (h) by 450mm (v) centres, reduced at openings, corners & perimeters to 225mm. Internal finish to be 15mm smooth cement plaster finish. Basecourse to be F2/S2 grade facing brickwork, with bucket handle struck coloured mortar joints. Stainless steel bed mesh reinforcement laid to course 215mm above openings.
 - Roof : 34/1000 box profile 0.7mm thick Plastisol coated galvanised steel sheet secured with tek screws with colour matched caps to 50x50mm PISW battens at 1.0m max. ctrs. 50x25mm PISW counterbattens over permeable roofing underlay on 150x16mm PISW sarking boards with 2mm air gap between boards, over 147x47mm C16 PISW roof joists at 600mm centres. 150mm thick mineral fibre insulation board (0.044 W/mK) between rafters fitted tight to underside of roll panel vents to ensure 25,000mm²/m free air flow to roof space supported by 1200 gauge vapour barrier, with additional PISW timber support as necessary. All VCB joints to be overlapped and taped in line with the rafters. Each end of each joist to be secured with galvanised steel joist clips secured to 100x50mm PISW wallplate. Secure wallplate to blockwork by once bent 1200x5x3 galvanised steel tie down strap, secured to outside of inner leaf at 950mm max. ctrs, and to either side of each opening. 50mm solid PISW blocking where indicated. 12.5mm Fermalcell board internal ceiling finish with tapered edge joints taped and filled. Fine surface treatment face filler to entire surface prior to decoration. 9mm self finished calcium silicate fibre cement to soffit.
 - Doors : 54mm thick polyester coated galvanised steel insulated doors, suitable for securely mounting a pull handle. All ironmongery to be in grade 316 (A4) stainless steel. D lever bolt through handle with toilet mortice lock and separate dead lock mortice lock. Door & ironmongery, including self closer to comply with requirements of BS-8300. Level 5 obscurity acid etch finish to mid face of laminated glass skylight over room door. Rain deflectors over low sill weather threshold bar & above door.
 - Sanitaryware : WC & WHB to be a vandal resistant, anti-bacterial units suitable for an accessible toilet from the following material options to be priced for :-
 - Grade 316 EN 1.4401 stainless steel
 - Gloss white solid polymer grade, suitable for prison use
 - Only one material to be chosen for all sanitaryware.
 - All pipework to be insulated and fitted with trace heating tape for extent of length of run. All to have brass isolation valve fittings.
 - WC : Back to wall or wall hung raised and extended pan with 76mm DST, complete with coloured seat 480mm above FFL. Concealed 4.5l insulated cistern in duct, protected by locked duct. Flush control by stainless steel push or PIR sensor.
 - WHB : Wall mounted handwash basin with rear waste exit to 32mm Ø waste pipe fitted with inline 76mm DST into connection to drain. Basin to provide sufficient clear room for knee room for accessible use. Sanitaryware locations to be reviewed upon Main Contractor providing technical information on choice of units.
 - Handrails : 35mm dia. coloured resin coated metal fixed & drop down handrails to be bolted to masonry with colour capped fixings. 600mm long wall handrails, 450mm handrail to inside of external door. 800mm nom. long drop down handrail.
 - Drainage : system to be constructed and installed in accordance with the recommendations in BS EN 12056-1: 2000, BS EN 752: 2008 and BS EN 1610: 1998. The rainwatergoods to be constructed and installed in accordance with the recommendations described in BS EN 12056-3: 2000.
 - Power : New lighting and small power installations including all associated accessories and equipment, in compliance with BS 7671: 2018.
 - Extract Fans : Mechanical extraction to be capable of at least 3 air changes/hr.
 - Service Zone Water Heating : The unvented hot water storage system to be in accordance with the recommendations of BS 12897: 2006 & BS 6700: 2009 as appropriate. Heatrae Multipoint 15 or equal water heating unit with expansion vessel and tundish valve discharging to the cleaners sink waste outlet. Unit to be Kiwa approved, CE marked and IPX4 rated.
 - Pipework : All hot and cold water, heating pipework shall be trace heated & insulated to BS 5422 and fire performance to Class 1 & tested to BS 476-7 throughout its whole length. All pipes and fittings should be supplied and installed in accordance with the relevant British Standards and Scottish Water Regulations. In addition, all fittings and materials used shall require to be WRAS approved.



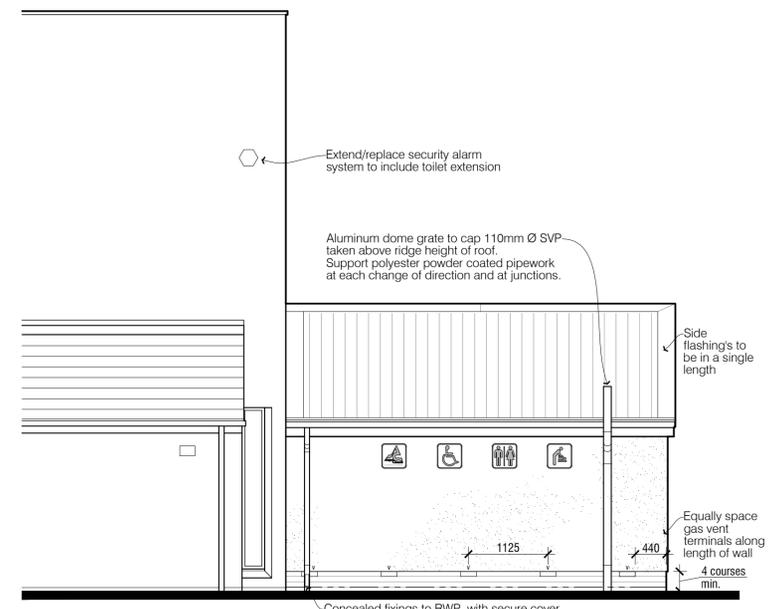
02 West Elevation
 Scale 1:50



03 South Elevation
 Scale 1:50



01 Sectional Elevation
 Scale 1:25



04 North Elevation
 Scale 1:50

Project Title Proposed Toilet Block Extension, Forfar Loch Rangers Centre, Craig O'Loch Road, Forfar DD8 1BT	 Property Angus House Orchardbank Forfar DD8 1AN
Drawing Title Proposed Toilet Block Section, Elevations General Notes	03452 777 778 assets@angus.gov.uk Scale 1:50 @a1 Date May 2020 1:25 Drawn by JGA
Project No. 09611028	Drawing No. 103 Revision t1