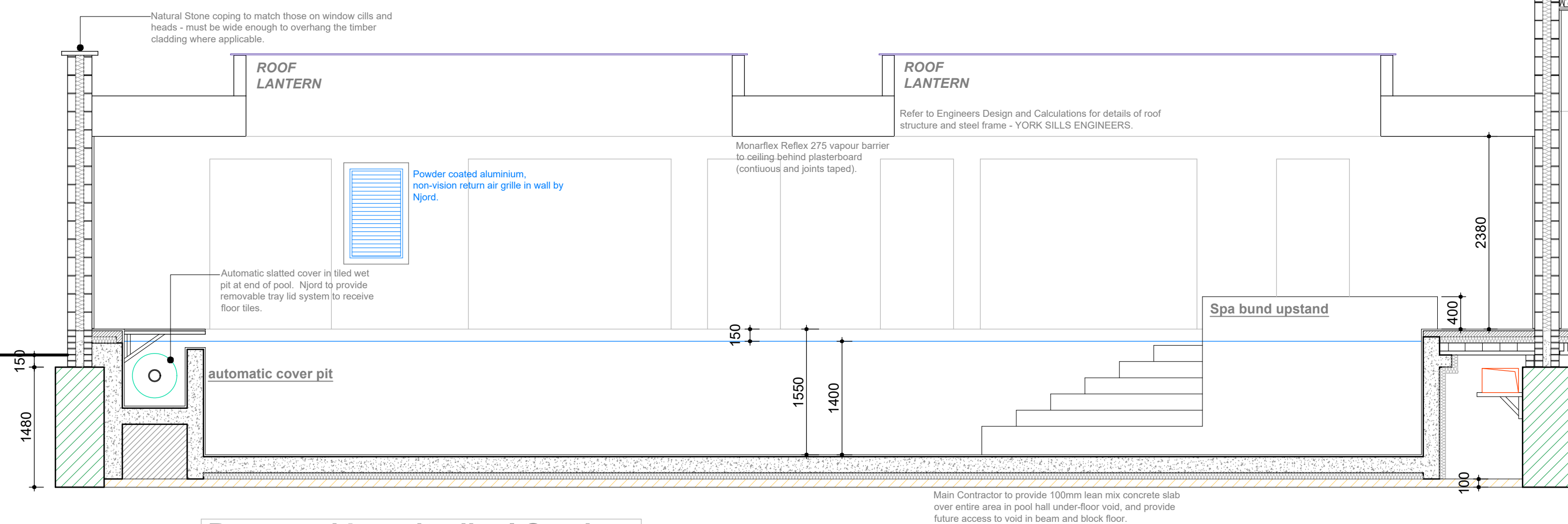


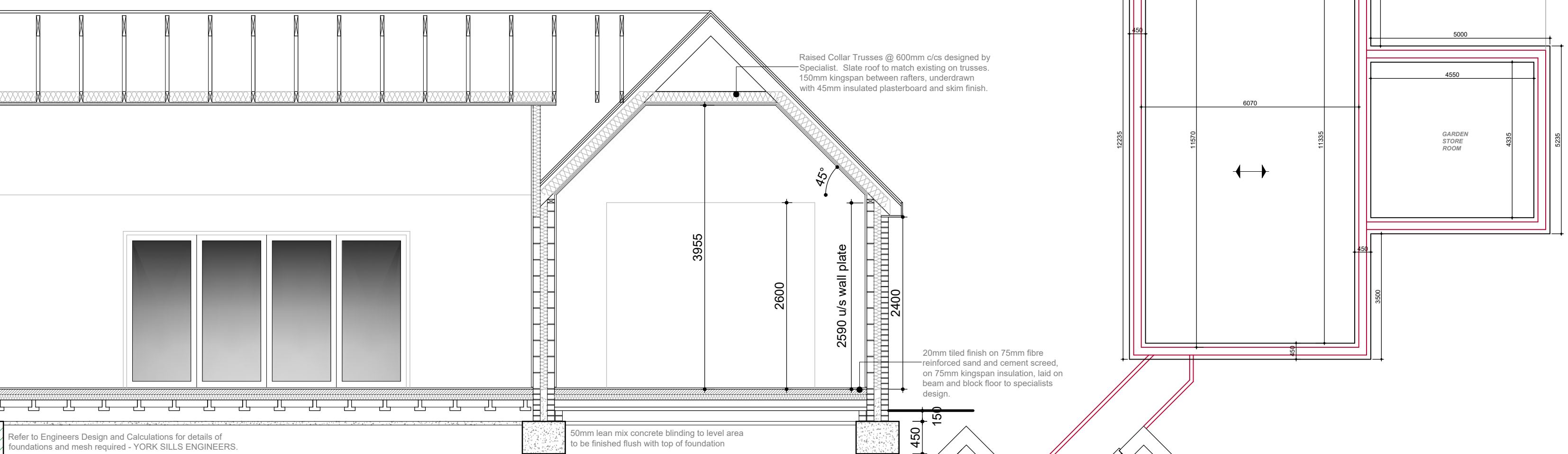


Status : PLANNING		
Scale	Date	
1:50 @ A1	SEPTEMBER 2022	
Dm.	Drg. No.	Rev.
S JONES		
Drawing Title		
PROPOSED SWIMMING POOL AND RECREATION BUILDING PROPOSED SECTION		

SLIDING DOORS - GREY PCA
RENDER PANELS - WHITE STORend
CLADDING - GREY HARDIE PLANK (cedar)
FLAT ROOF - ANTHRACITE SINGLE PLY
ROOF LANTERNS - FLAT SELF CLEANING
PITCHED ROOF - TO MATCH EXISTING
BRICKWORK - TO MATCH EXISTING



Proposed Longitudinal Section



CONSTRUCTION

Rainwater Goods:
100mm gutters to be connected into existing and to discharge to existing rainwater outlets. 100mm gutters to lean to with 68mm rainwater pipe to discharge to new/ existing gullies.

Electrical Work
All wiring and electrical work will be designed, installed inspected and tested by a "person qualified" to do so in accordance with the National Electrical Code, 1999 Edition, National Fire Protection Association and Building Regulation Part P (Electrical Safety). On completion of works a copy of the installers Electrical Installation Test Certificate compliant with BS 7671 is to be provided to the Client and Local Authority Prior to covering of all wiring / cables, the installation is to be signed off by Building Control. This could include a second check & testing of the installation by a Competent Person installed as members. Any defective work found will have to be corrected at the owners expense. Electrical sockets and switches to be positioned 450mm min, and 1200mm max from floor level.

1. New wiring system to be installed, replacing an existing lighting system in the kitchen and living room.
2. New lighting and LED light fittings to be installed based fitting to be provided to lights to ensure only energy efficient fittings can be attached.

Plumbing:
WC to have 100mm connection to soil pipe. bath, shower to have 75mm deep seal anti vac traps with 38mm diameter wastes basin to have 75mm deep seal anti vac trap with 32mm diameter waste. All wastes bossed on to new soil and vent pipe. Any Combined wastes to be in 50mm UPVC pipes.

Below Ground Drainage:
Exact Drainage runs are as yet undetermined. Contractor to ascertain exact runs, and report any findings to LA BCO for their approval on site.

Four water - Hephth Superseal or similar approved virilified clay pipework laid in falls of 1:40 (subject to site levels), installed strictly according to the manufacturer's instructions. All joints must be covered by paved/grassed areas and having at least 300mm of cover to be laid on 100mm thick bed of pea gravel and backfilling to crown of selected excavated material to min depth of 150mm above crown of pipe. Pipework below paved/grassed areas having less than 300mm of cover to be encased in concrete not less than 100mm thick and having a minimum depth of 150mm above crown of pipe. All joints must be covered by paved/grassed areas and having at least 300mm of cover to be laid on 100mm thick bed of pea gravel and backfilling to crown of pipe. Each socket or sleeve joint face. Drainage runs passing beneath the building to be surrounded with minimum 100mm granular fill except where the crown of the pipe is within 300mm of the u/s of the slab where the pipe should be encased in concrete integral with the slab. Where the drainage runs through wall or ceiling to be encased in concrete to least 100mm clearance all round the pipe to mask the edges of the opening with suitable rigid sheet material to prevent the ingress of vermin. Ensure adequate lintel support over such openings.

Surface water - Pipework as for foul water except laid to falls of 1:60 (subject to site levels). Surface water to drain to Main Sewer as determined on site.

Internal Walls:
7kn dense concrete blockwork complete with dot and dab plasterboard and smooth skim finish where shown.

Primary & Secondary Heating Systems (New & Replacement)
New installation or replacement for an existing system MUST comply with the provisions laid out in the "Domestic Heating Compliance Guide" published by the Department for Communities & Local Government. Check boiler manufacturer as to appropriate controls to be used to achieve Approved Document L1 compliance. Commissioning & Providing Information.
All fixed building services are to be commissioned in accordance with the "Domestic Heating Compliance Guide" by a suitably qualified person depending upon the type of installation eg Corgi (Gas), Hetas(Solid/Fuel),Oftec(Oil) registered installers. On the completion of works:-

A copy of the commissioning notice is to be provided to Building Control, confirming that compliant systems commissioning has taken place. The building owner must receive sufficient information about the building, the fixed building services & there maintenance requirements to allow the energy saving provisions to be maintained. Instructions must show:- How to adjust times/ temperature control settings & What routine maintenance is required. Mode of heating to extension as yet unknown if a new boiler to be fitted this is to have a Class A SEDBUK 86% energy efficiency rating.

Foundations:
Building to be constructed on mass filled concrete foundations
subject to inspection of trial pits by LA BCO.

Mechanical Ventilation:

Provide manually controllable mechanical extract fans ducted to external air as indicated below:- Kitchens to be mechanically extracted via fan capable of 60 ltr/sec extract rate or via cooker hood with 30 ltr/sec extract rate ducted to external air. Utility Room to be mechanically extracted via fan capable of 30 ltr/sec extract rate ducted to external air. WC to be mechanically extracted via fan capable of 15 ltr/sec extract rate ducted to external air. Bathroom to be mechanically extracted via fan capable of 6 ltr/sec extract rate ducted to external air. Rooms with no windows or opening lights - fan to have 15min overrun and operate off main light switch. Replacement air provided to rooms with fans by 10mm undercut gap at base of door. Mechanical ventilation systems to be of an energy efficient type, ie specific fan power (SFP) for continuous supply only & continuous extract only to be 0.8 Watts / Litres/Sec

Doors, Windows and Roof Lanterns:
All new windows to be powder coated aluminium Energy Rated A, double glazed, and have trickle vents not less than 8000mm². All glazing to doors, and windows adjoining a door or less than 800mm above floor to be in toughened glass. Double glazing to be 4 - 20 - 4 with Pilkington 'K' glass to inner pane. Argon filled cavity. Windows to achieve U value of 1.2 W/m²K, doors to achieve U value of 1.8W/m²K - Preferred supplier is Spire Windows (Louth).

The design and construction of the proposals will satisfy the Governments Robust Construction Details in lieu of air testing the finished structure.

Lighting:
One third of the primary light fittings in the proposed extension (minimum one) to be of a type which will only receive high efficiency lamps.

Roof Construction:
Single ply membrane on 150mm kingspan insulation, on top of 18mm WBP laid on firrings and eco joists to specialists design and calculations.

NB: Any recessed light fittings to be suitable for Swimming Pool Environment, and provided with intumescent back boxes to prevent scorching of insulation.

Floor Construction:
75mm fibre reinforced sand and cement screed on top of 75mm kingspan insulation on 1200g Visqueen dpm, lapped with 2000g DPC in cavity wall. Fully suspended beam and floor to specialists design and calculations.

NB: This building has been designed to incorporate a full service void around the pool, which must be provided with a 100mm concrete base slab all over by MC.

Swimming Pool Construction:
Shotcrete method, using high velocity pneumatically projected concrete. Erect temporary wooden formwork to specified

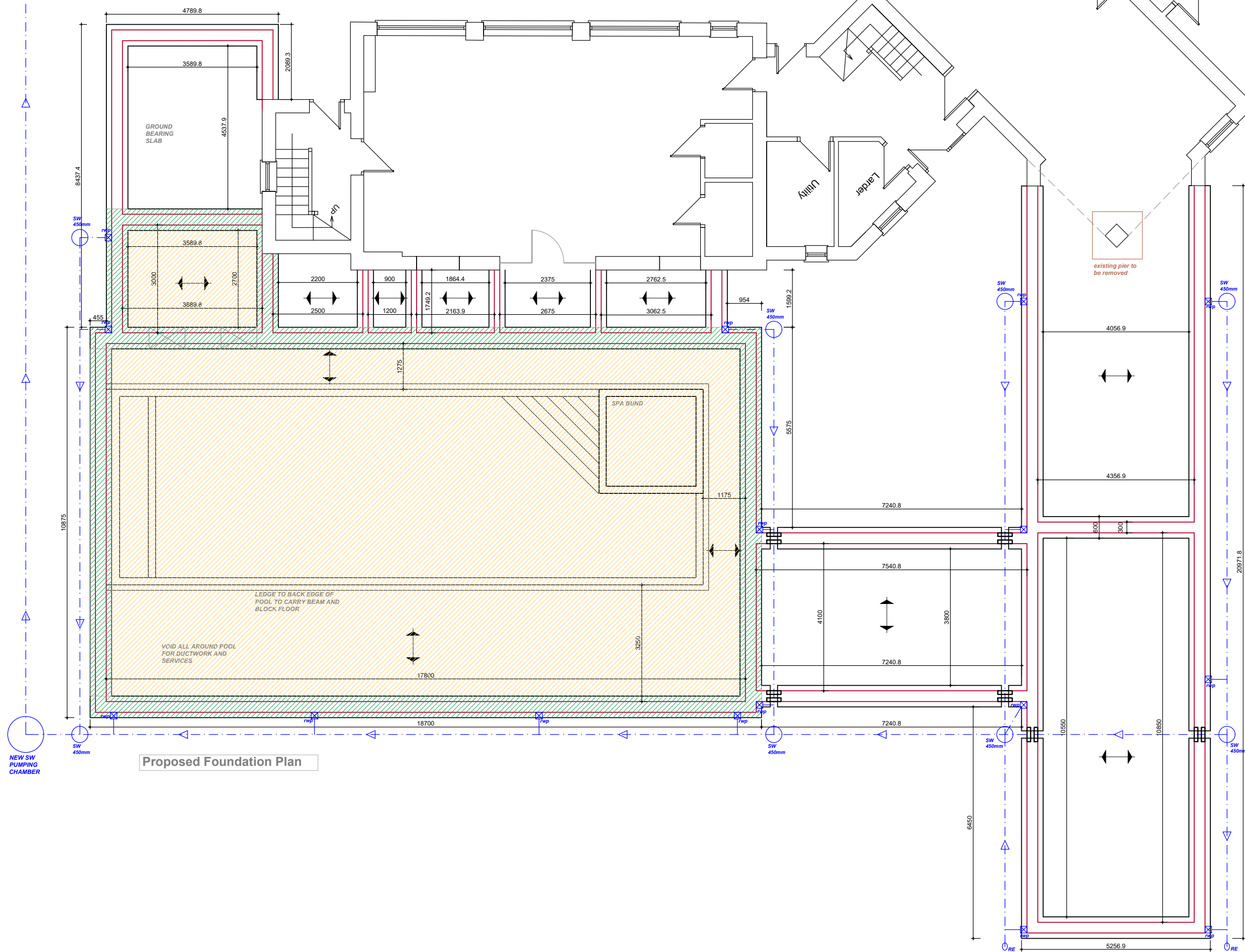
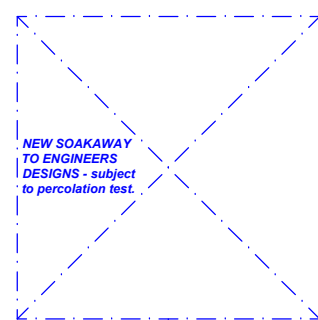
slab. Where necessary fix reinforcing steel and apply shotcrete to comply with B.S. 8007, Njord to provide Structural Calculations for the shell construction as necessary. Wall and floor thickness to be

Provide waterproof render and Mosaic tile finish (25mm overall thickness) to shotcrete shell. Floor and wall tiles to be advised

Cavity Wall Construction:
Brickwork outer leaf to match existing, 100mm cavity with full fill knauf cavity slab 32 insulation, 100mm Supabloc inner leaf (thermaelite) with moisture resistant 15mm Gyproc TEN plasterboard and smooth plaster skim finish. Cavity wall ties @ 5 per sqm.

Rendered Panels - replace brickwork with dense concrete blockwork (fair faced) and apply cream coloured Sto-Render system in line with manufacturers instructions.

Timber Panels - replace brickwork with dense concrete blockwork (fair faced), apply vapour barrier then 25x50mm tanzalized battens at 400c/cs (horizontal) with 125mm larch board to be secret nailed to battens.



Proposed Foundation Plan