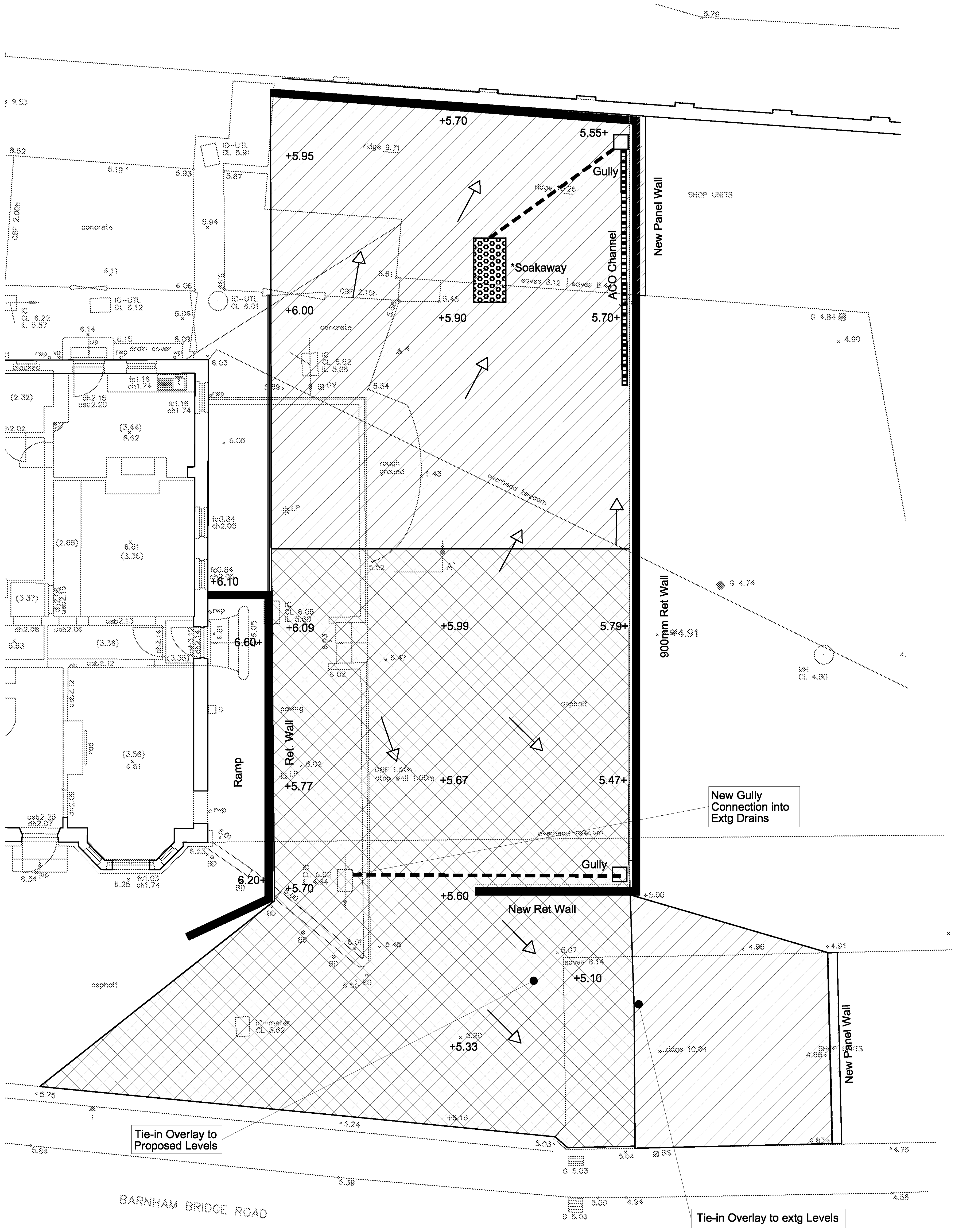


External Works and Drainage Layout

(Scale = 1:100)

KEY:	
▬	- Denotes Retaining Wall
⬡	- Denotes Proposed Soakaway
▥	- Denotes Proposed Aco Drain
→	- Denotes Proposed Falls
5.49+	- Denotes Proposed Levels
▨	- Denotes Proposed Light Vehicle Construction
▩	- Denotes Delivery Route Construction

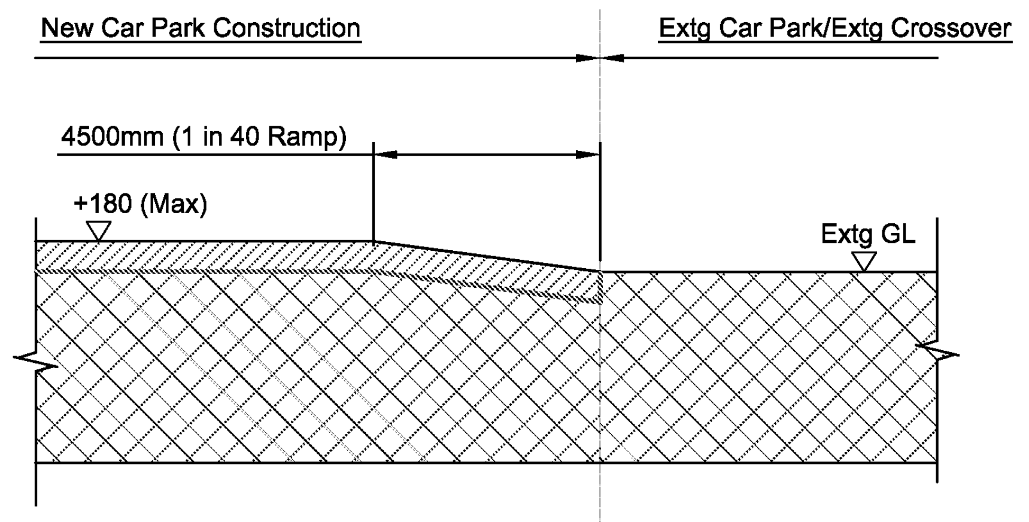
NOTES:

*Permeability tests to BRE 365 to be undertaken to determine volume of proposed soakaway.

NOTES:

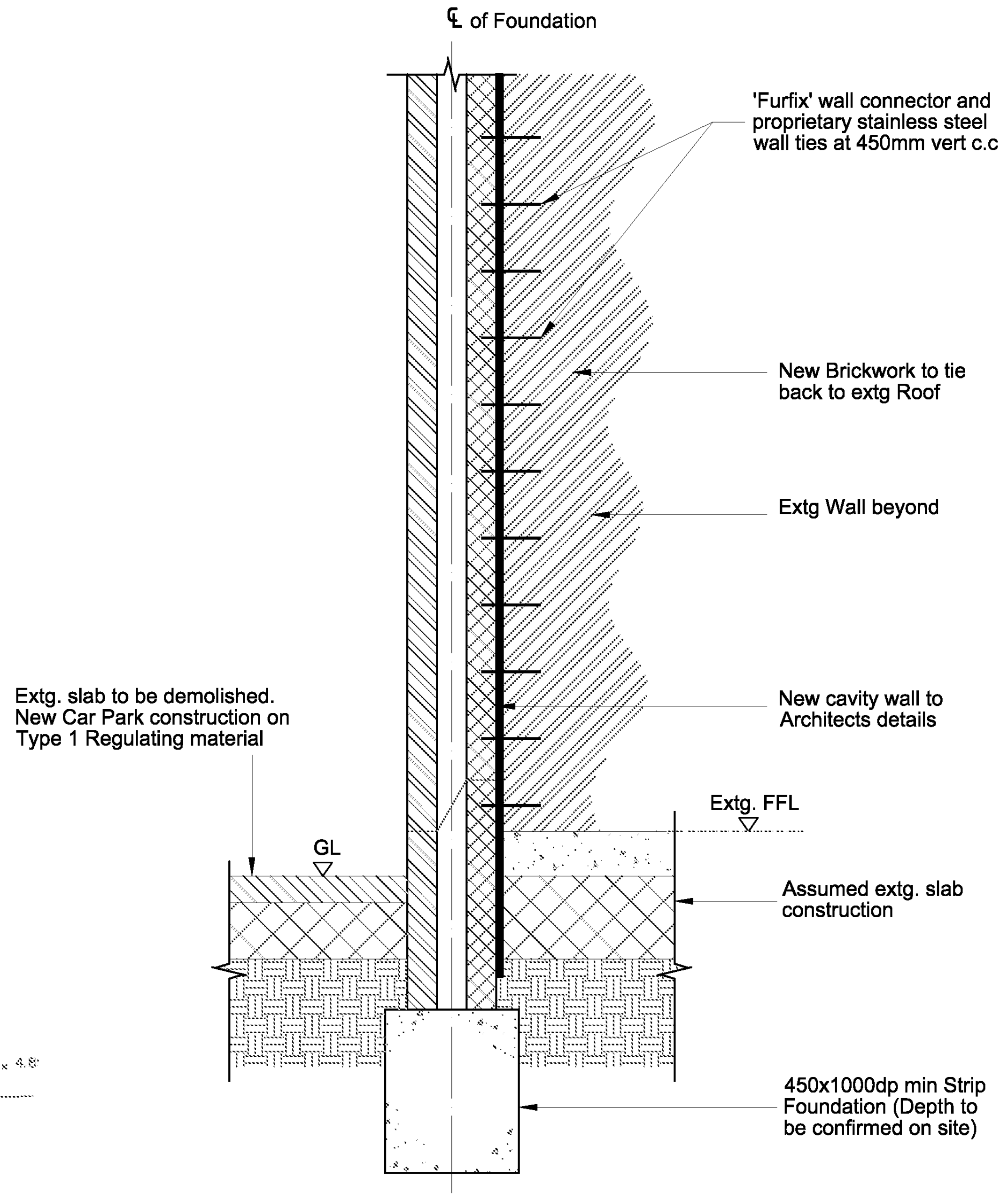
1. This drawing should be read as a PRELIMINARY issue and must not be used for construction.

2. This drawing and associated .dwg and or .dxf files must not be interrogated for dimensional information.



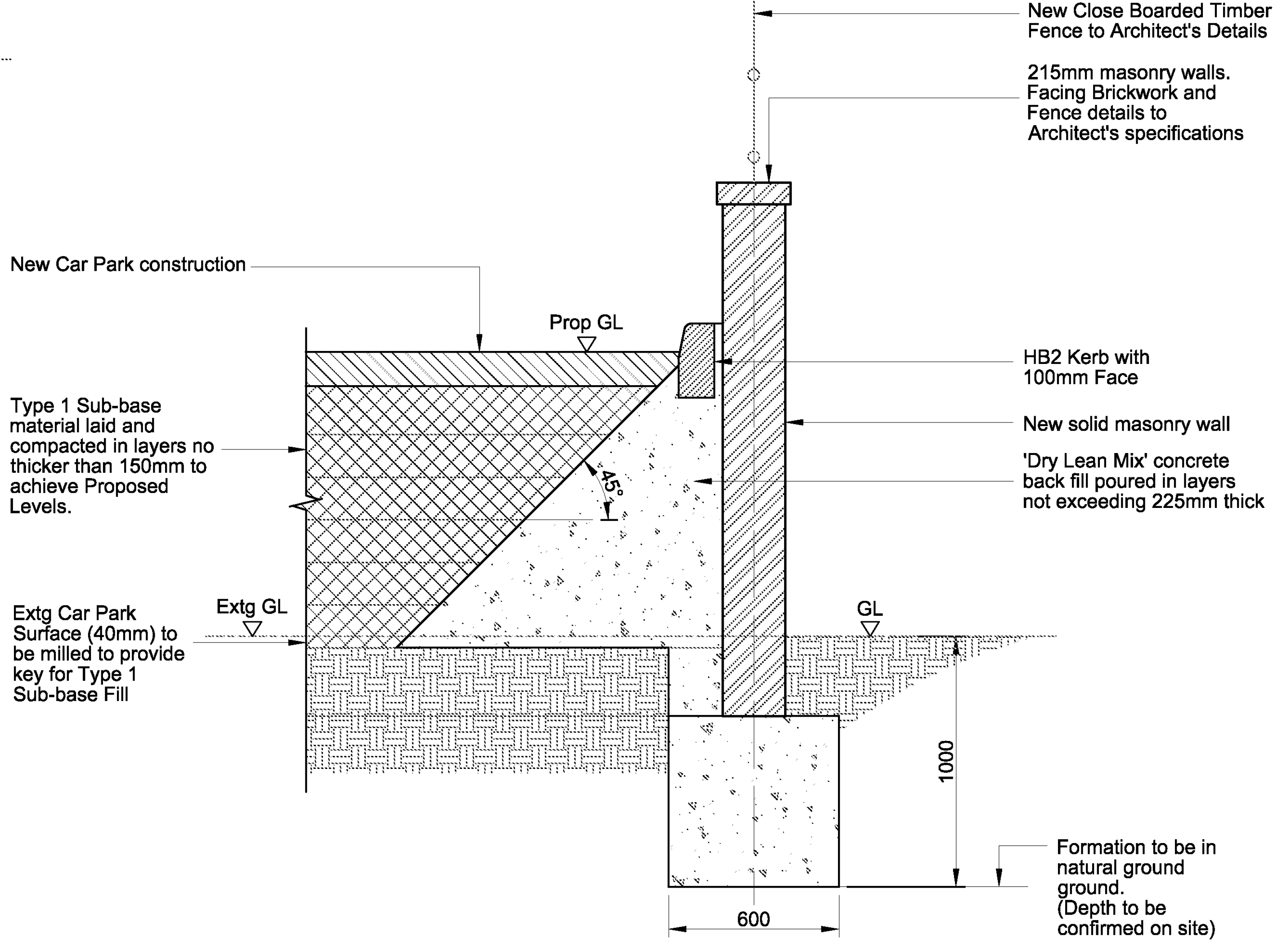
TIE-IN DETAILS

(NTS)


℄ of Foundation
'Furfix' wall connector and proprietary stainless steel wall ties at 450mm vert c.c
New Brickwork to tie back to extg Roof
Extg Wall beyond
New cavity wall to Architects details
Extg. slab to be demolished. New Car Park construction on Type 1 Regulating material
GL
Extg. FFL
Assumed extg. slab construction
450x1000dp min Strip Foundation (Depth to be confirmed on site)

New Wall Panel to Extg Building to remain

(Scale = 1:20)


℄
New Close Boarded Timber Fence to Architect's Details
215mm masonry walls. Facing Brickwork and Fence details to Architect's specifications
New Car Park construction
Prop GL
HB2 Kerb with 100mm Face
Type 1 Sub-base material laid and compacted in layers no thicker than 150mm to achieve Proposed Levels.
New solid masonry wall
'Dry Lean Mix' concrete back fill poured in layers not exceeding 225mm thick
45°
Extg Car Park Surface (40mm) to be milled to provide key for Type 1 Sub-base Fill
Extg GL
GL
1000
600
Formation to be in natural ground ground. (Depth to be confirmed on site)

New Ret Wall to New Car Park

(Scale = 1:20)

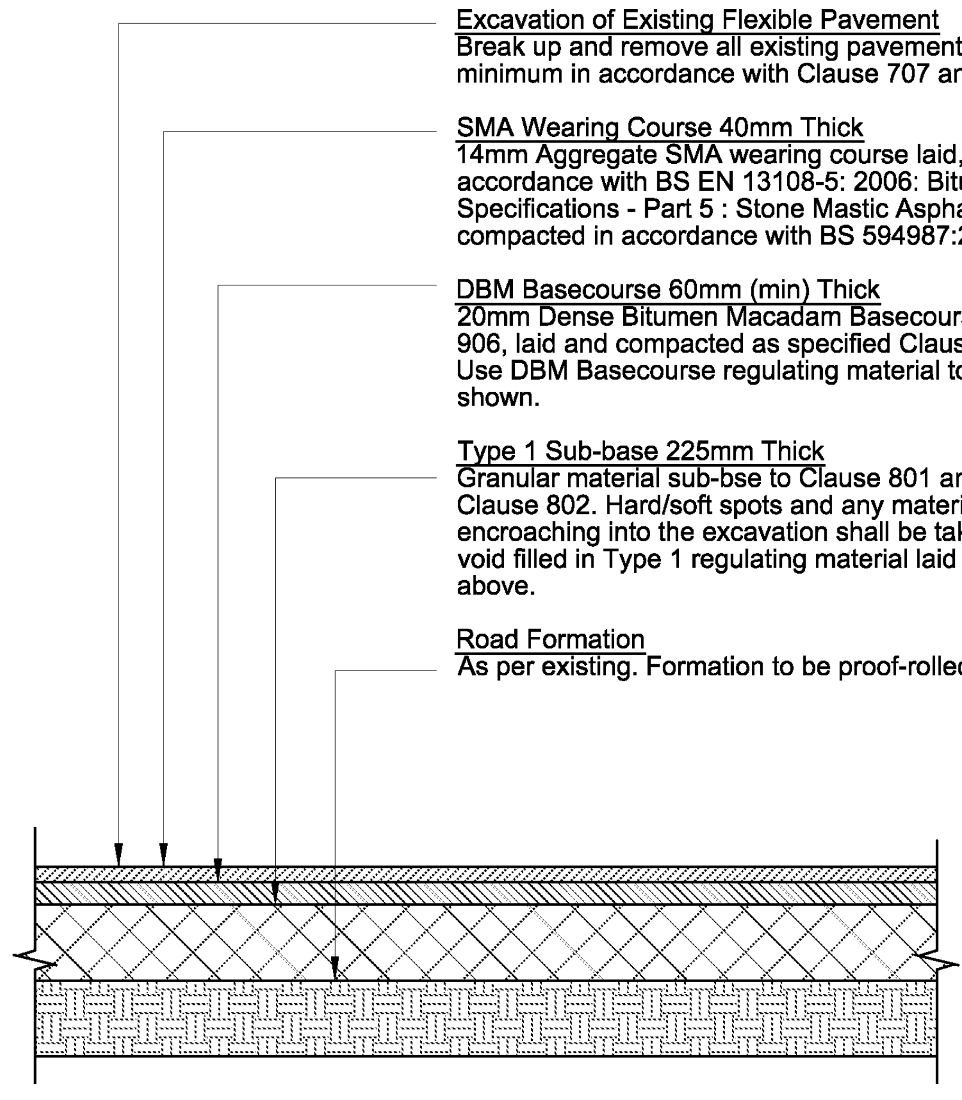
Excavation of Existing Flexible Pavement
Break up and remove all existing pavement to a min depth of 325mm minimum in accordance with Clause 707 and 709.

SMA Wearing Course 40mm Thick
14mm Aggregate SMA wearing course laid, transported and compacted in accordance with BS EN 13108-5: 2006: Bituminous mixtures - Material Specifications - Part 5 : Stone Mastic Asphalt. Aggregate transported and compacted in accordance with BS 594987:2007

DBM Basecourse 60mm (min) Thick
20mm Dense Bitumen Macadam Basecourse in accordance with Clause 906, laid and compacted as specified Clause 701, 702, 703, 704 and 901. Use DBM Basecourse regulating material to achieve the proposed levels as shown.

Type 1 Sub-base 225mm Thick
Granular material sub-bse to Clause 801 and 803 laid and compacted to Clause 802. Hard/soft spots and any material foreign to road construction encroaching into the excavation shall be taken out and removed and the void filled in Type 1 regulating material laid and compacted as described above.

Road Formation
As per existing. Formation to be proof-rolled in advance of road construction.



CAR PARK CONSTRUCTION FOR LIGHT VEHICLES CONSTRUCTION DETAILS

(NTS)

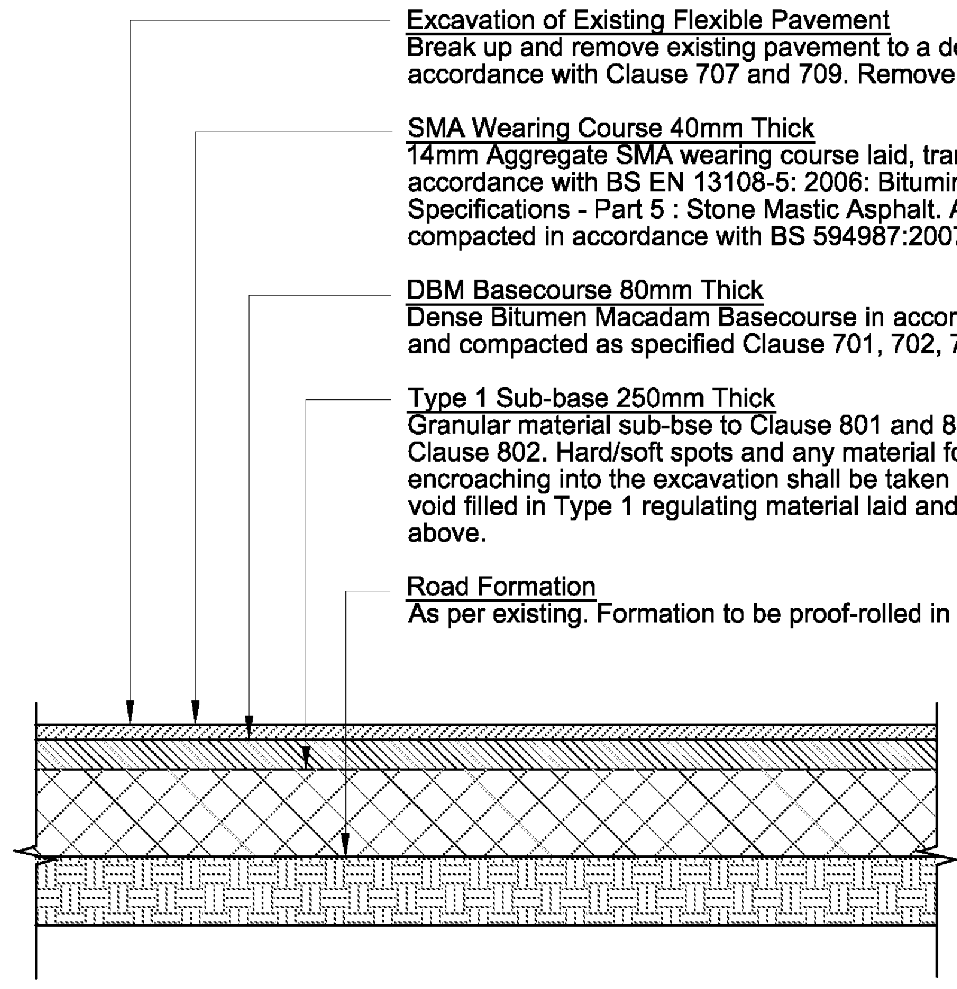
Excavation of Existing Flexible Pavement
Break up and remove existing pavement to a depth of 445mm minimum in accordance with Clause 707 and 709. Remove all Topsoil where present.

SMA Wearing Course 40mm Thick
14mm Aggregate SMA wearing course laid, transported and compacted in accordance with BS EN 13108-5: 2006: Bituminous mixtures - Material Specifications - Part 5 : Stone Mastic Asphalt. Aggregate transported and compacted in accordance with BS 594987:2007

DBM Basecourse 80mm Thick
Dense Bitumen Macadam Basecourse in accordance with Clause 906, laid and compacted as specified Clause 701, 702, 703, 704 and 901.

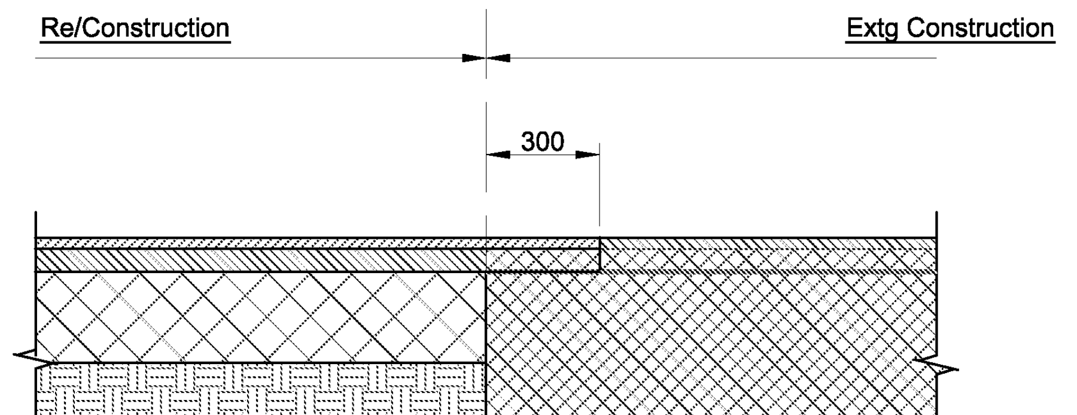
Type 1 Sub-base 250mm Thick
Granular material sub-bse to Clause 801 and 803 laid and compacted to Clause 802. Hard/soft spots and any material foreign to road construction encroaching into the excavation shall be taken out and removed and the void filled in Type 1 regulating material laid and compacted as described above.

Road Formation
As per existing. Formation to be proof-rolled in advance of road construction.



CAR PARK CONSTRUCTION FOR DELIVERY ROUTE CONSTRUCTION DETAILS

(NTS)



OVERLAY-RECONSTRUCTION TIE-IN DETAIL

(NTS)

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Notes

1. This drawing shall be read in conjunction with all Architect's and Engineer's details and specifications.
2. Refer to the Architect's plans for the proposed car park layout.
3. Before commencing any Sewer or drainage works, the Groundworker must satisfy themselves and Barter Hill and the Local Authority of the actual levels, position, route, type/status and conditions of all existing drainage.
4. All buried concrete to be Class 1 conditions in accordance with BRE special digest/BRE Digest 363 and strictly in accordance with the Geotechnical Engineers requirements.
5. All abandoned, buried obstructions encountered during the construction of Highway & Drainage Works are to be broken out to bed level of drains and sewers, and to the formation of carparks and drives etc..., and to sufficient depth to allow for laying service company's mains and services.
6. Depth and location of all existing services to be traced and recorded prior to any drainage excavations.
7. All private drainage is to be laid to levels shown using flexibly jointed pipes, either uPVC to BS 4660 and BS5481 or vitrified clayware to BS EN 295. Connections to be at invert level unless otherwise indicated. All new SW drains to connect into extg SW drainage.
8. All private drainage works to be carried out in accordance with the provisions laid down in BS EN 752 & The Building Regulations, Part H.

NOTE:
All Service entries in to buildings are to be mastic sealed at ground level to avoid possible ingress of gases.

ALL BURIED CONCRETE BELOW 2.0M TO BE TO CLASS 1 CONDITIONS

9. Generally pipes to have granular Bed & surround in accordance with manufacturers recommendations ensuring adequate protection with respect to depth and location. SW drainage to be ø110mm and generally laid to a 1:100 fall. FW drainage to be ø110 and generally laid to a 1:80 fall unless otherwise indicated. All new connection to be at invert level.
10. The route, depth, position and outfalls of all sewers and drains within the demise are to be accurately determined before the start of any drainage works. All extg drainage features to remain are to be protected during the development works.

Rev.	Description	By	Date
P7	Extent of Resurfacing Works altered to suit amended Car Park Layout	MG	04.02.13
P6	Retaining Wall and extent of Resurfacing Works amended.	MG	31.01.13
P5	Position of Panel Wall amended.	MG	25.01.13
P4	Proposed Levels amended.	MG	24.01.13
P3	Car Park Specs and minor Details added.	MG	23.01.13
P2	Retaining Wall and Panel Wall details added.	MG	23.11.12
P1	Preliminary Issue.	JR	15.11.11

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Drawing Title
External Works and Drainage Layout

Designed by	Drawn by	Checked by
JR	JR	MG

Scale @ A1	Date
As shown	November 2011

Drawing No.	Revision	Job Ref
4388/100	P7	4388

Status
PRELIMINARY ISSUE

Cad file	Contact Office
BHP\Projects\4388	Magdalen Laver

ARUN DISTRICT COUNCIL EG/48/14/DOC