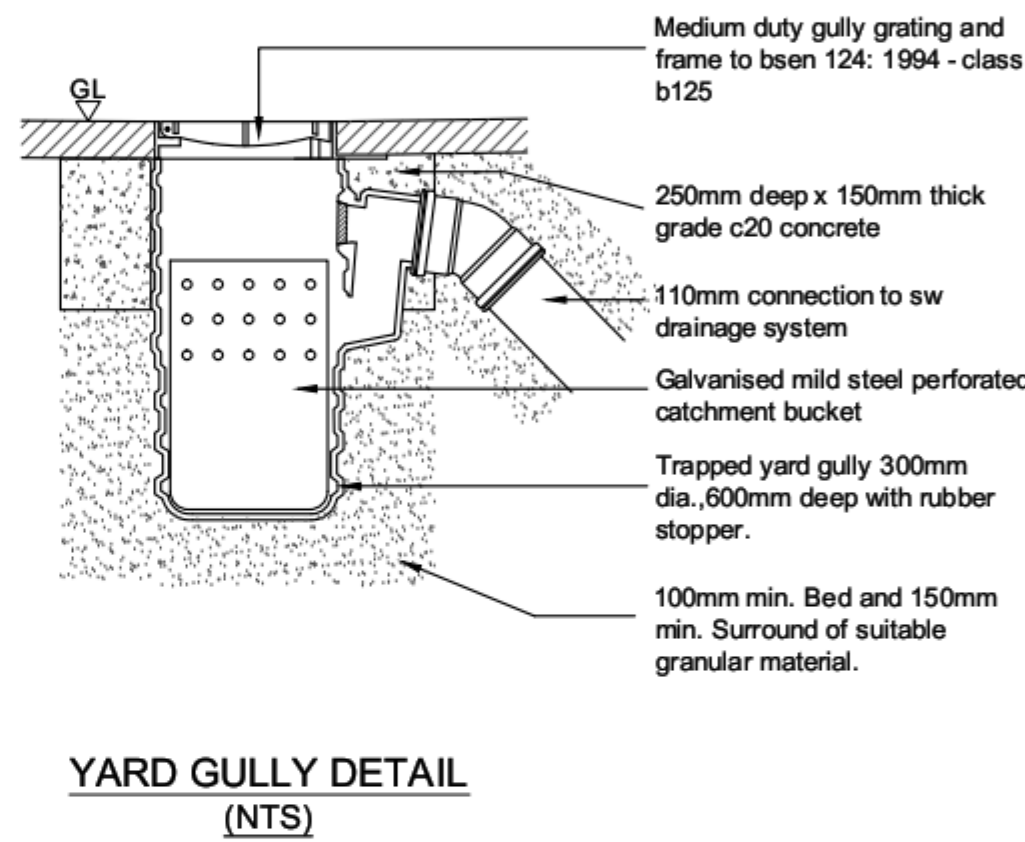
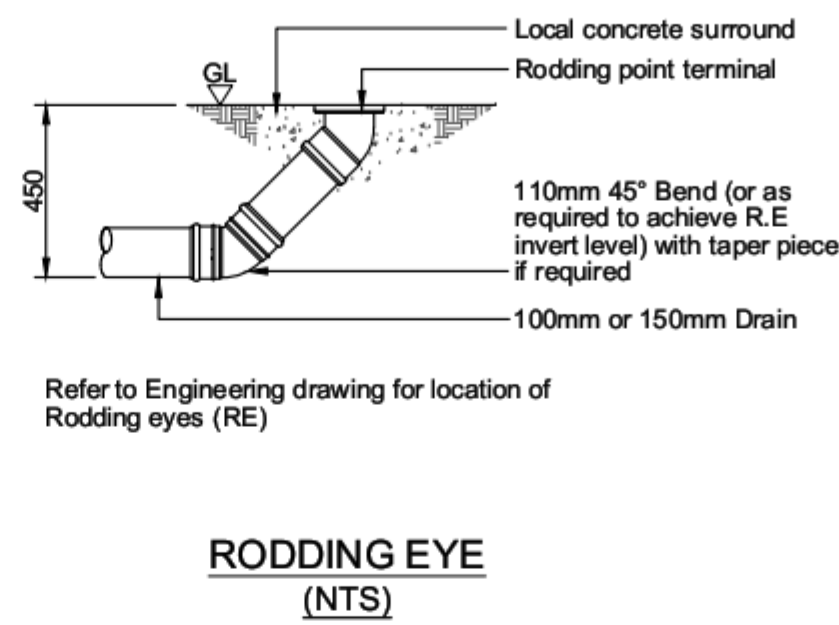
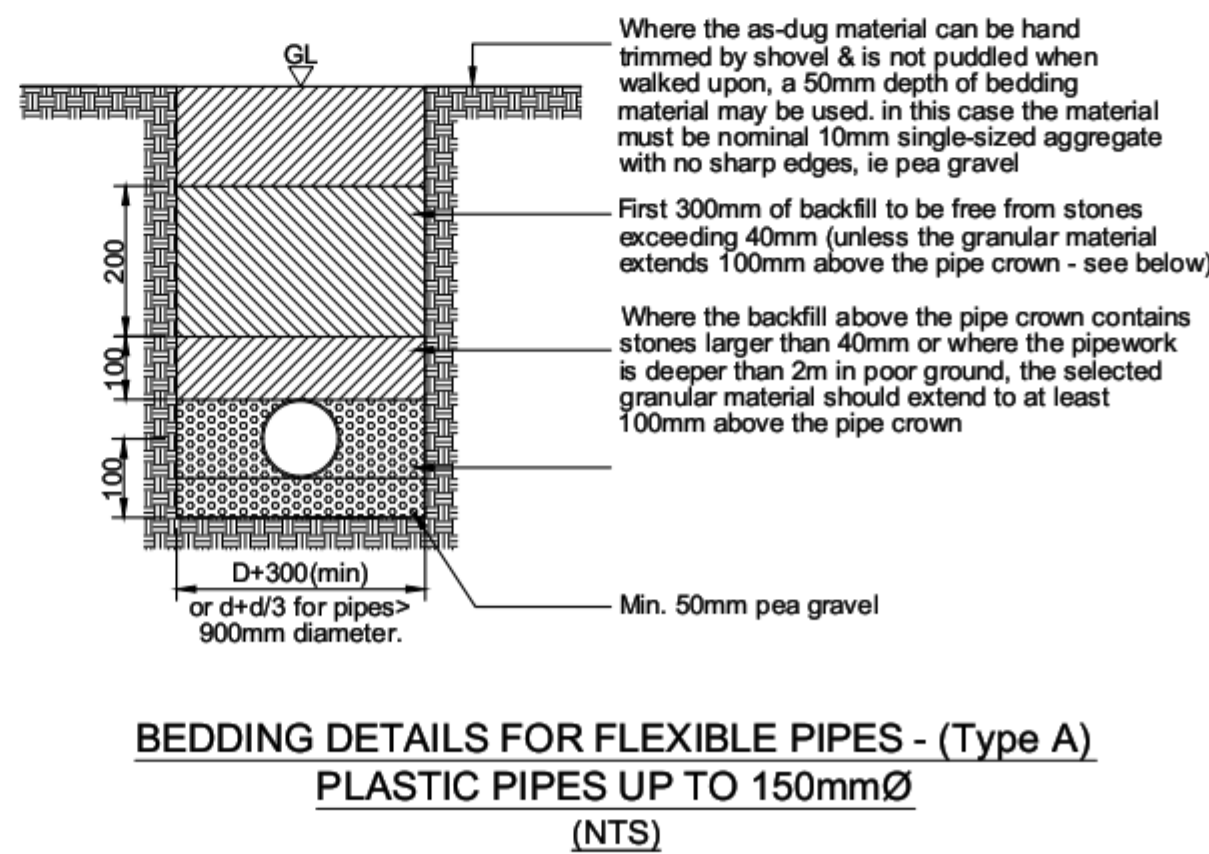
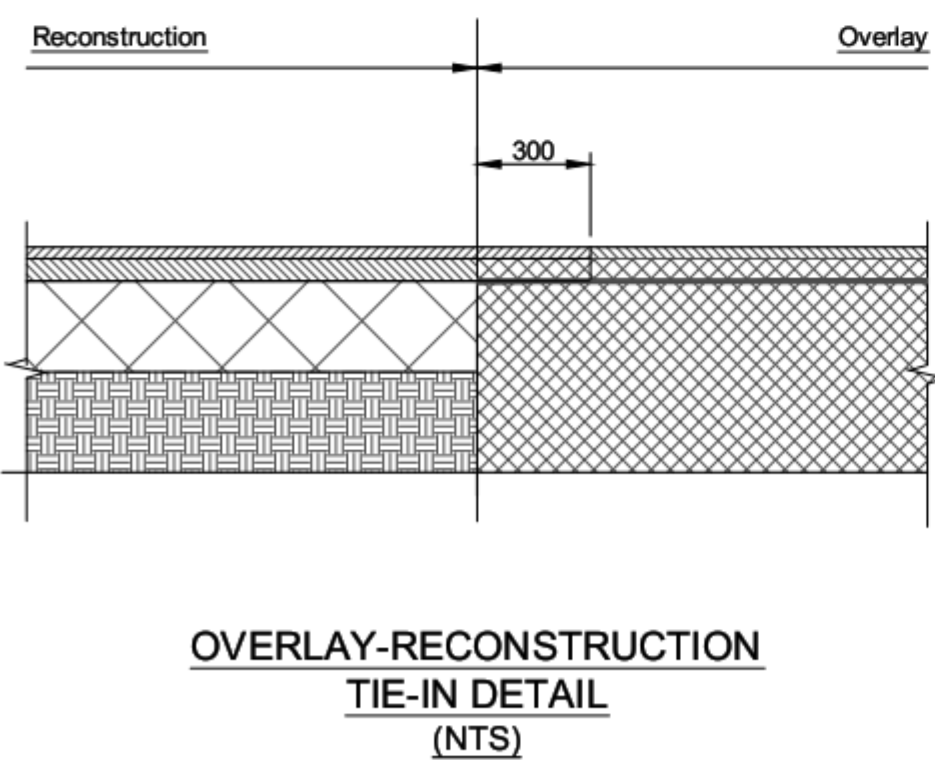
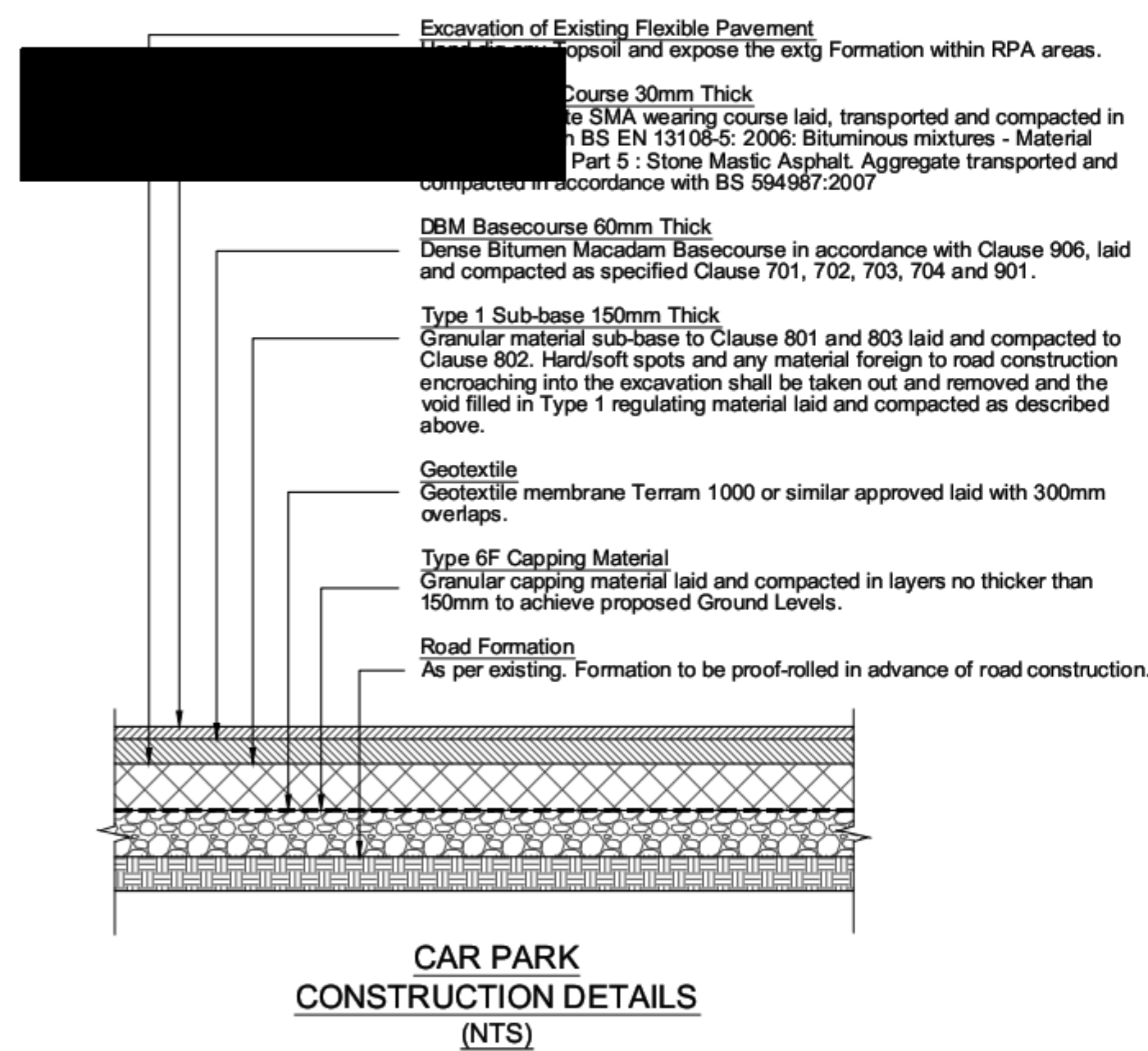
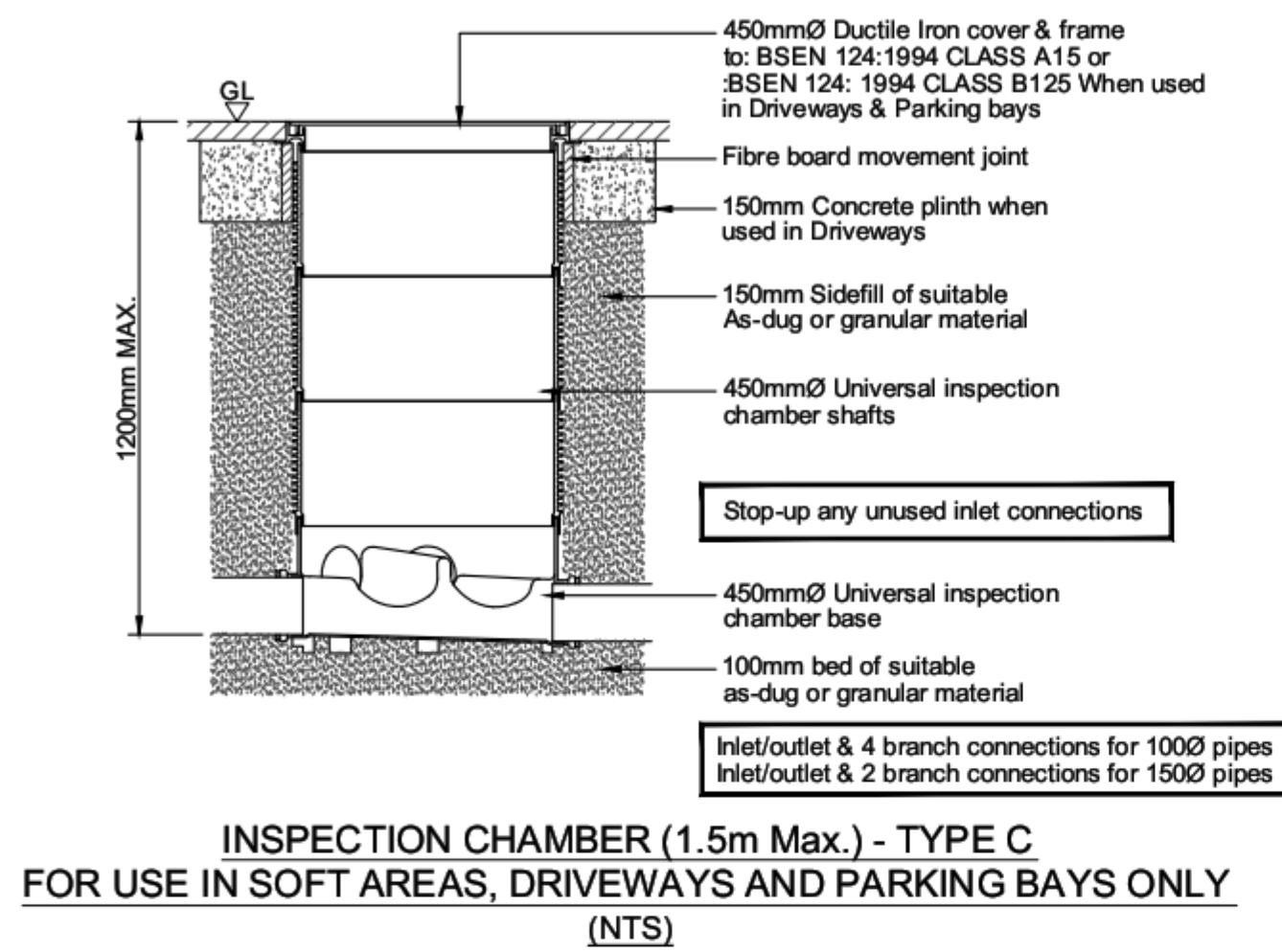
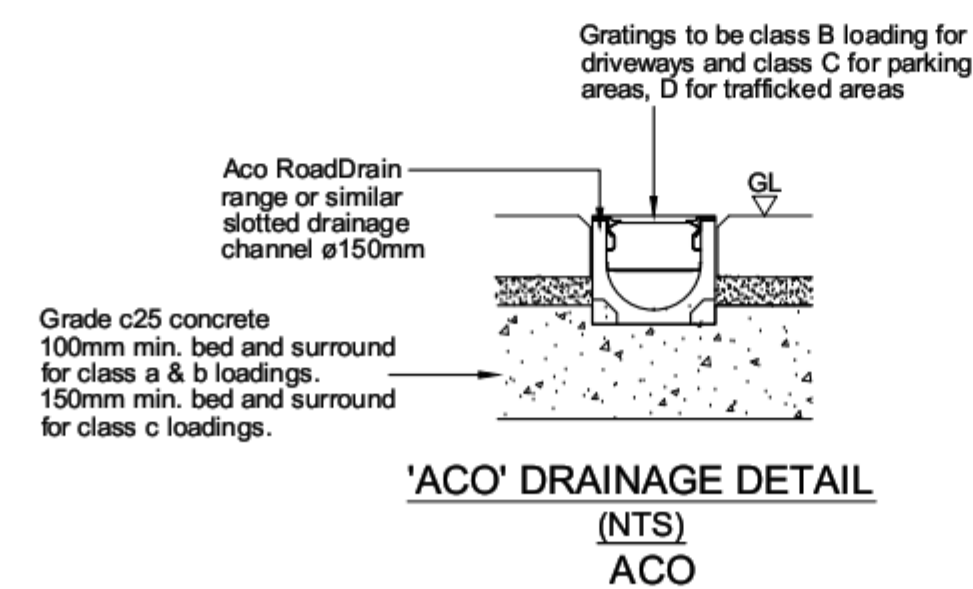
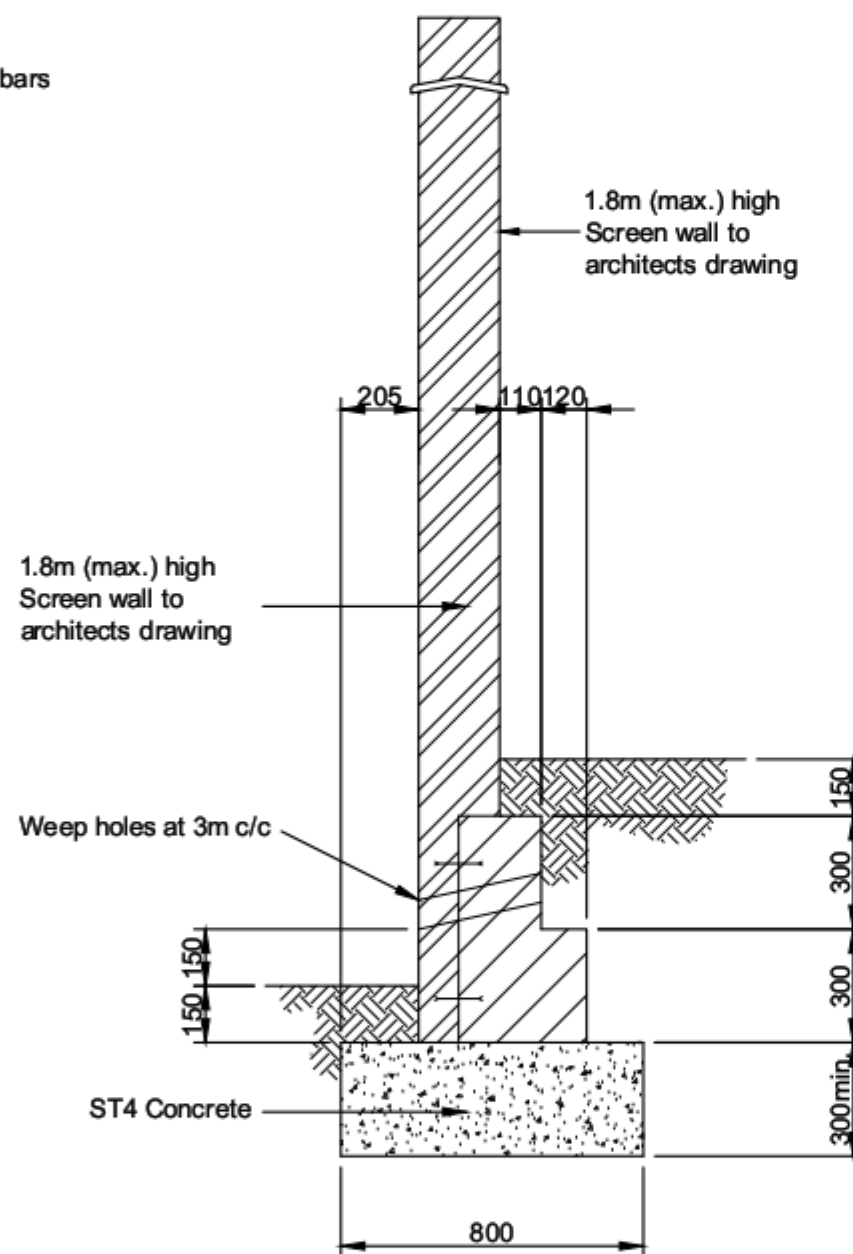
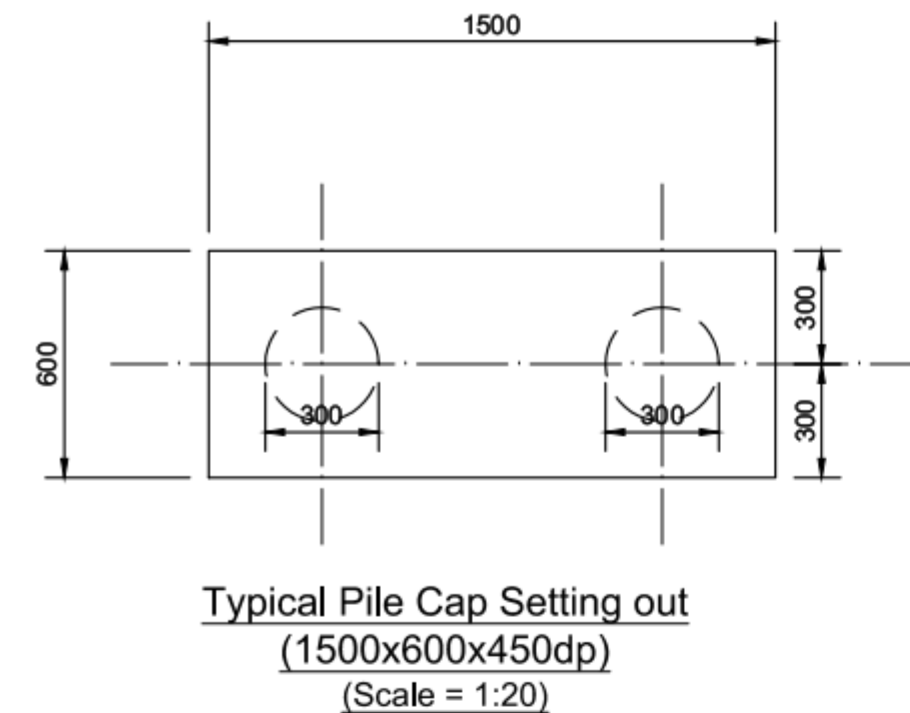
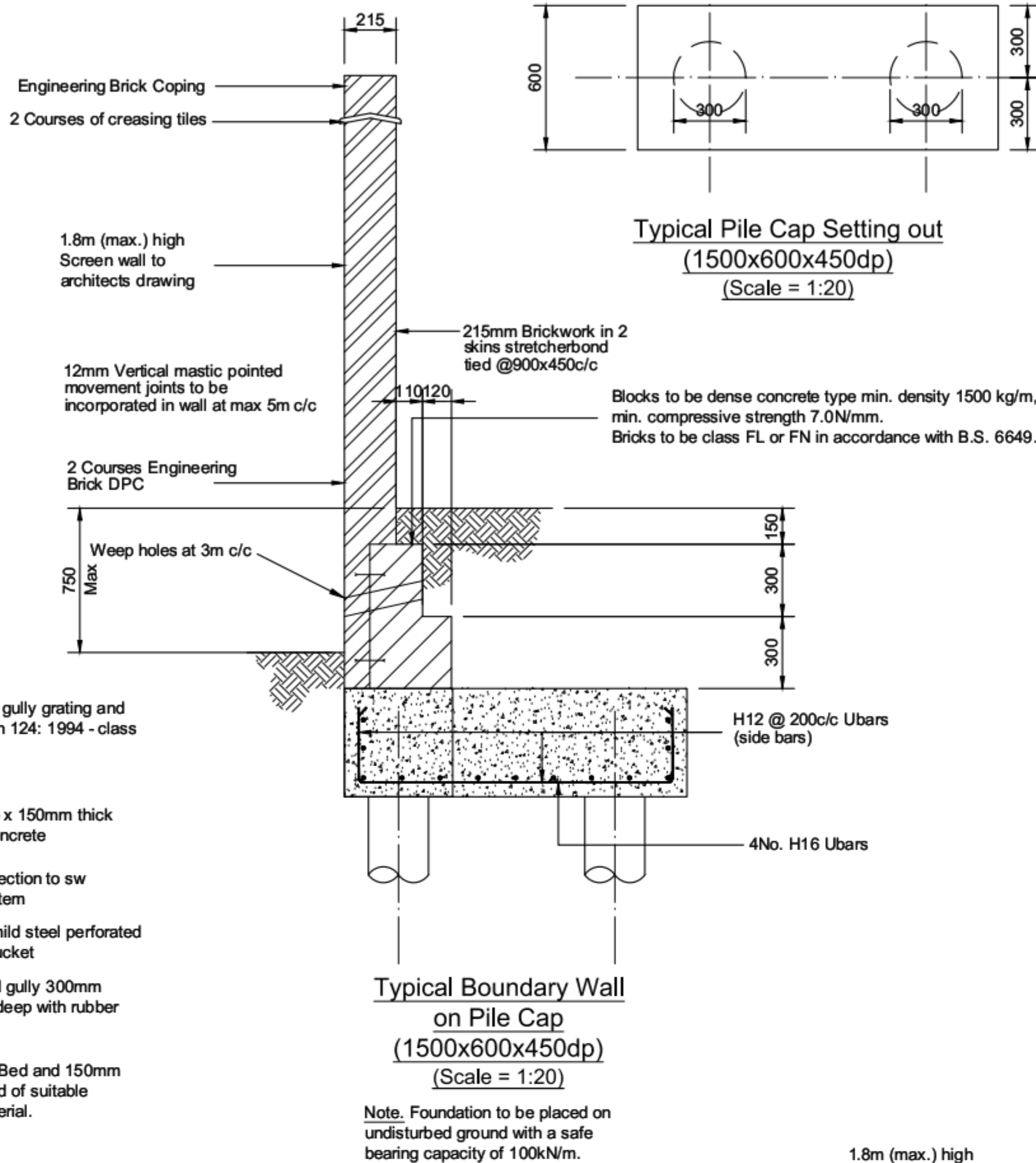
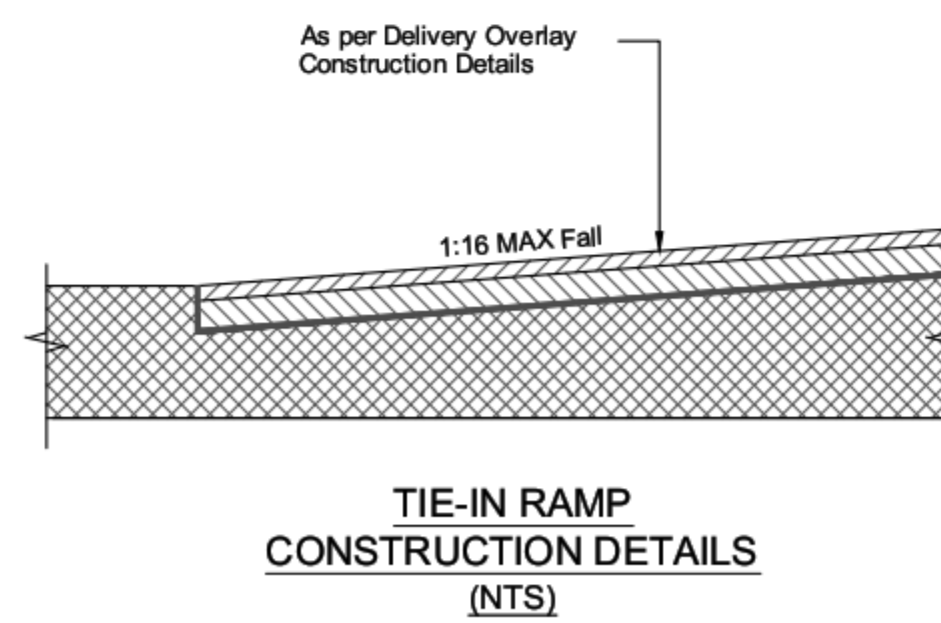
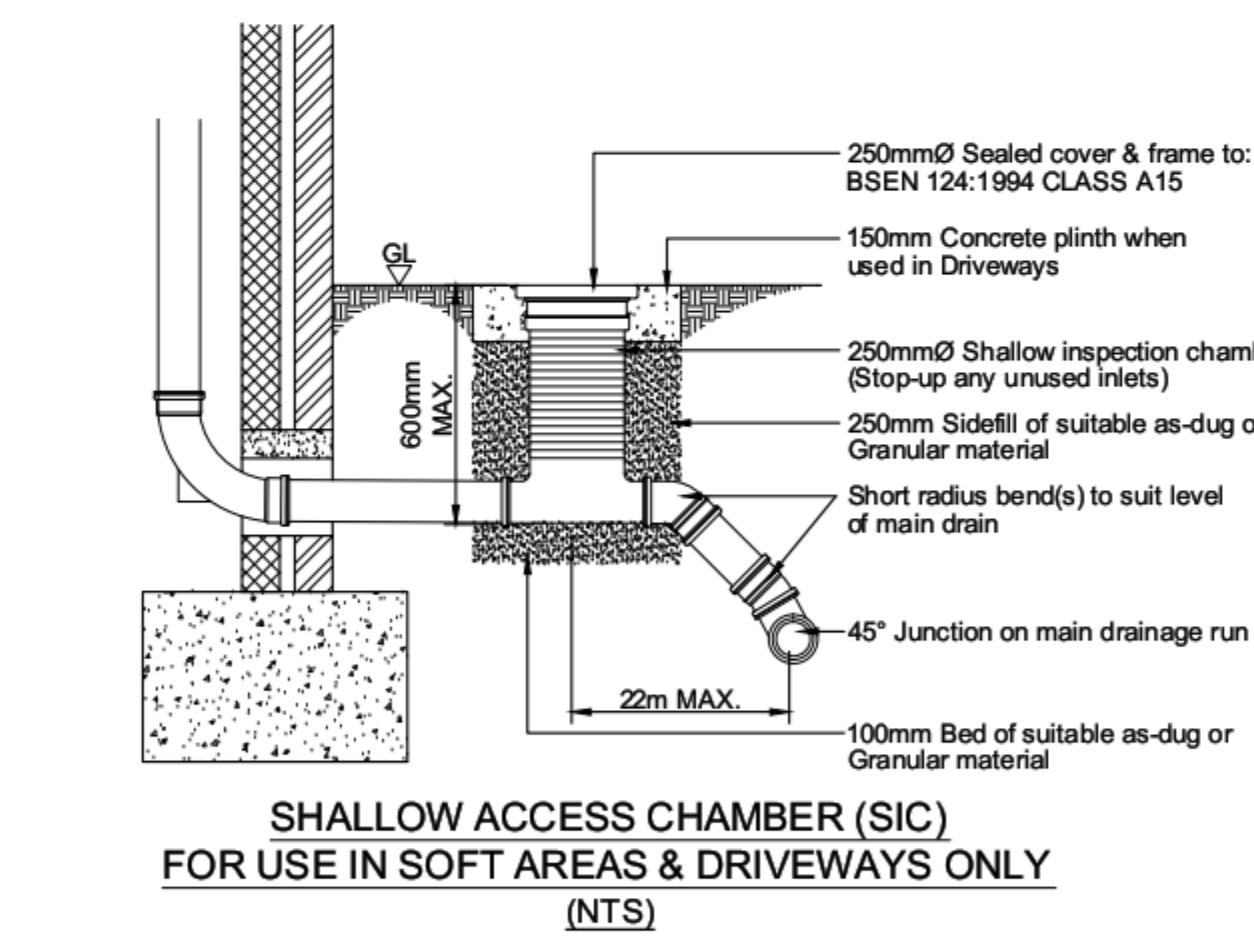




Gratings to be galvanized steel to manufacturers guidelines unless otherwise specified.

notes:
1. roddable trapped sump units to be positioned at connection to drain, see layouts.
2. loadings to BSEN 124: 1994

Regulating Note:
Regulate extg car park to achieve proposed levels using SMA Regulating material



NOTES:
This drawing and associated .dwg and or .dxf files are not to be used for dimensional information. Refer to Architects drawings for dimensions or obtain on site as appropriate UNO.

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- Notes
- This drawing should be read in conjunction with all Architects details and Specifications.
 - Refer to the Architect's for the proposed levels.
 - Before commencing any Sewer or drainage works, the Developer's Groundworker must satisfy themselves and Barter Hill and the Local Authority of the actual levels, type and conditions of existing sewers.
 - All buried concrete to be Class 1 conditions in accordance with BRE special digest/BRE Digest 363.
 - 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.
NOTE:
All Service entries in to buildings are to be mastic sealed at ground level to avoid possible ingress of gases.
 - Insitu concrete to benchings of foul manholes to be Class 4 conditions; i.e. min. cement content of 360kg/m³ Sulphate Resisting Portland Cement, and max. free water ratio of 0.45 and 20mm n.s aggregate.
 - Depth and location of all existing services to be traced and recorded prior to any drainage excavations.
All private drainage to be laid to levels shown using flexibly jointed pipes, either uPVC to BS 4660 and BS5451 or vitrified clayware to BS EN 295. Connections to be at invert level unless otherwise indicated.
 - All private drainage works to be carried out in accordance with the provisions laid down in BS EN 752 & The Building Regulations, Part H.
 - 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.
 - The route, location, depth 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 Building Works.

T2	Drainage design added as per CCTV.	MG	JR	20.01.14
T1	Tender Issue.	MG	JR	20.12.13
PL1	Planning Issue.	WM	MG	09.10.13

Rev.	Description	By	Chk.	Date
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Client

TESCO express

Project
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Purbrook, Portsmouth

Drawing Title
Engineering Details

Designed by MG	Drawn by MG	Checked by JR
Scale @ A1 NTS	Date Oct. 2013	
Drawing No. 3373/101	Revision T2	Job Ref 3373

Status
TENDER ISSUE

Cad file
P:\3373\Civil\

Contact Office
Magdalen Laver