

NOTES

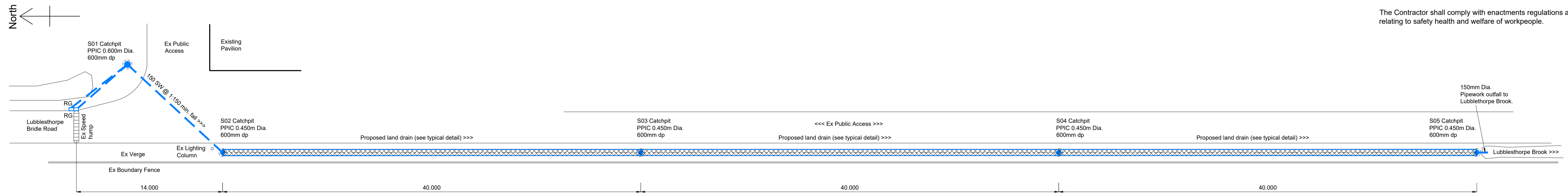
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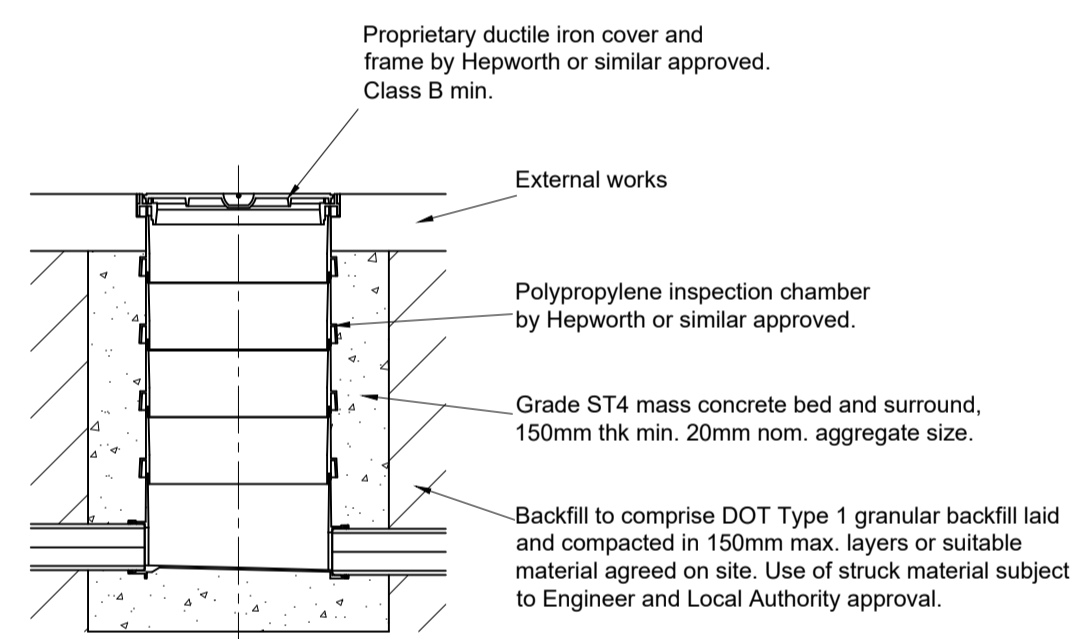
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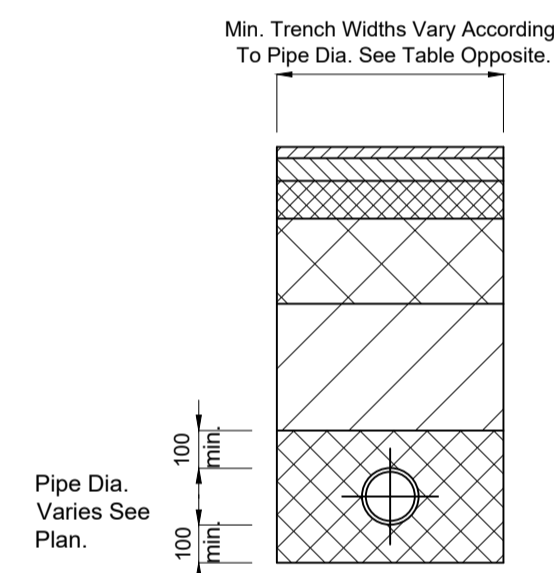
External Works Land Drainage General Arrangement Plan - 1:200



Typical PPIC Detail - 1:20

Note:
Maximum depth for this type of Inspection Chamber 1.2m.
PPIC Only suitable for pipe diameters upto and including 150mm.

Where chambers of this type are also referenced as catchpit on the general arrangement plan, a pre-formed base unit with a built in sump / catchpit 150mm dp min. is to be provided.



Pipe Bedding Detail Type S

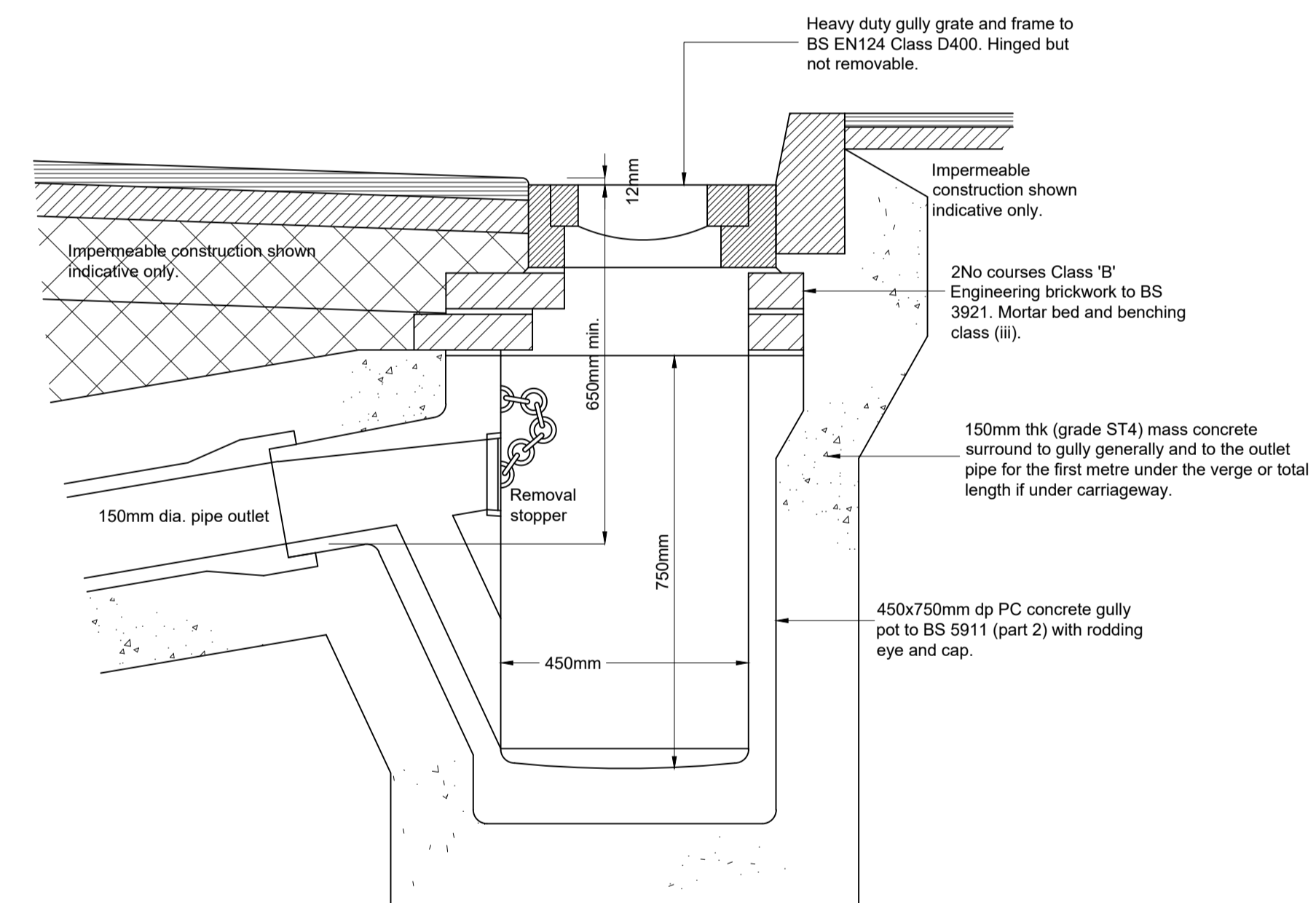
Note:
RIGID PIPEWORK
CLAYWARE 100 - 600mm Dia. & CONCRETE 300 - 600mm Dia.:
Applicable where pipework has more than 1200mm cover under trafficked areas or more than 600mm under non-trafficked areas.

FLEXIBLE PIPEWORK
PLASTICS (nominal ring stiffness SN4):
Applicable where pipework has more than 1200mm cover under trafficked areas or more than 600mm under non-trafficked areas.

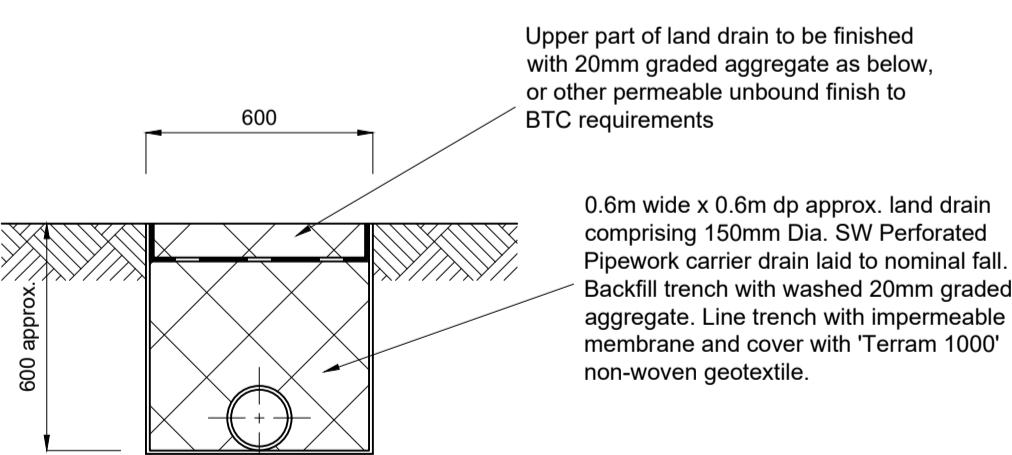
TRENCH WIDTHS	
Pipe Dia (mm)	Min. Trench Width (mm)
100	550
150	600
225	700
300	750
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
975	2000
1050	2300
1200	2300
Over 1200	Pipe Dia. + 1000

Note:
No Mechanical compaction techniques to be used within 300mm of the crown of all pipework.

See Structural Engineers details for pipework laid under buildings / through foundations etc.



Typical Road Gully Detail - 1:10



Land Drain Detail - 1:20

Do not scale

DRAINAGE NOTES:

- ALL DISCREPANCIES NOTED ON SITE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- All dimensions in millimeters and levels in meters unless noted otherwise.
- All work is to be carried out in accordance with the current British Standards, Codes of Practice and Building Regulations.
- The exact position, level, size and use of existing sewers to be confirmed on site. Any discrepancies to be reported to the Engineer PRIOR TO COMMENCEMENT OF WORKS.
- All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.
- All connections to trapped road gullies and channels shall be 150mm nominal bore pipework min where not noted on the plan. No pipe work to be downsized in the direction of flow.
- All un-noted buried pipework to be 150mm dia. unless subject to other notes or noted otherwise.
- All buried pipework to be U-PVC type in accordance with WIs 4-35-01 unless noted otherwise.
- All pipework entering and exiting manholes to be connected with pipe soffits level unless noted otherwise.
- Pre-formed channels to be used at all manholes.
- Pipe bends to be provided to suit direction of flow.
- All manhole covers and frames to be Ductile Iron Grade B125 min.
- First flexible joint in pipes adjacent to all manholes and inspection chambers to be 600mm max. from inside face of manhole / inspection chamber, connecting to rocker pipe. For pipe diameters 150mm - 450mm the rocker pipe length shall be 500mm - 750mm and for pipe diameters 451mm - 675mm the rocker pipe length shall be 750mm - 1000mm.
- All soft spots encountered in the trench formation to be removed and replaced with graded granular material unless instructed otherwise.
- All buried concrete must cater for class DS1 sulphates conditions and AC1 aggressive chemical environment for concrete in accordance with BRE special digest 1.
- The design of any temporary works required shall be the responsibility of the Contractor.
- All proposed drainage to be constructed adjacent to new and proposed tree planting to be adequately protected against root activity using root barriers in accordance with the chosen manufacturer's recommendations.
- Contractor to include for the modification of all existing buried services affected by the works. Note that levels across the site will change as a result of the proposals affecting covers and depths to services which may need to be raised or lowered.

29.02.24	Preliminary Issue	AL	-	P01
Date	Description	Drawn	Chkd	Rev
Drawing Status		Preliminary		

21 Stoney Street, Lace Market, Nottingham, NG1 1LP
Tel: 01159 417145
Fax: 01159 484445

Courtyard House, Silver Street, Head, Sheffield, S1 2DD
Tel: 01143 211900

Lincoln Office
Tel: 01522 245020
Fax: 01159 484445

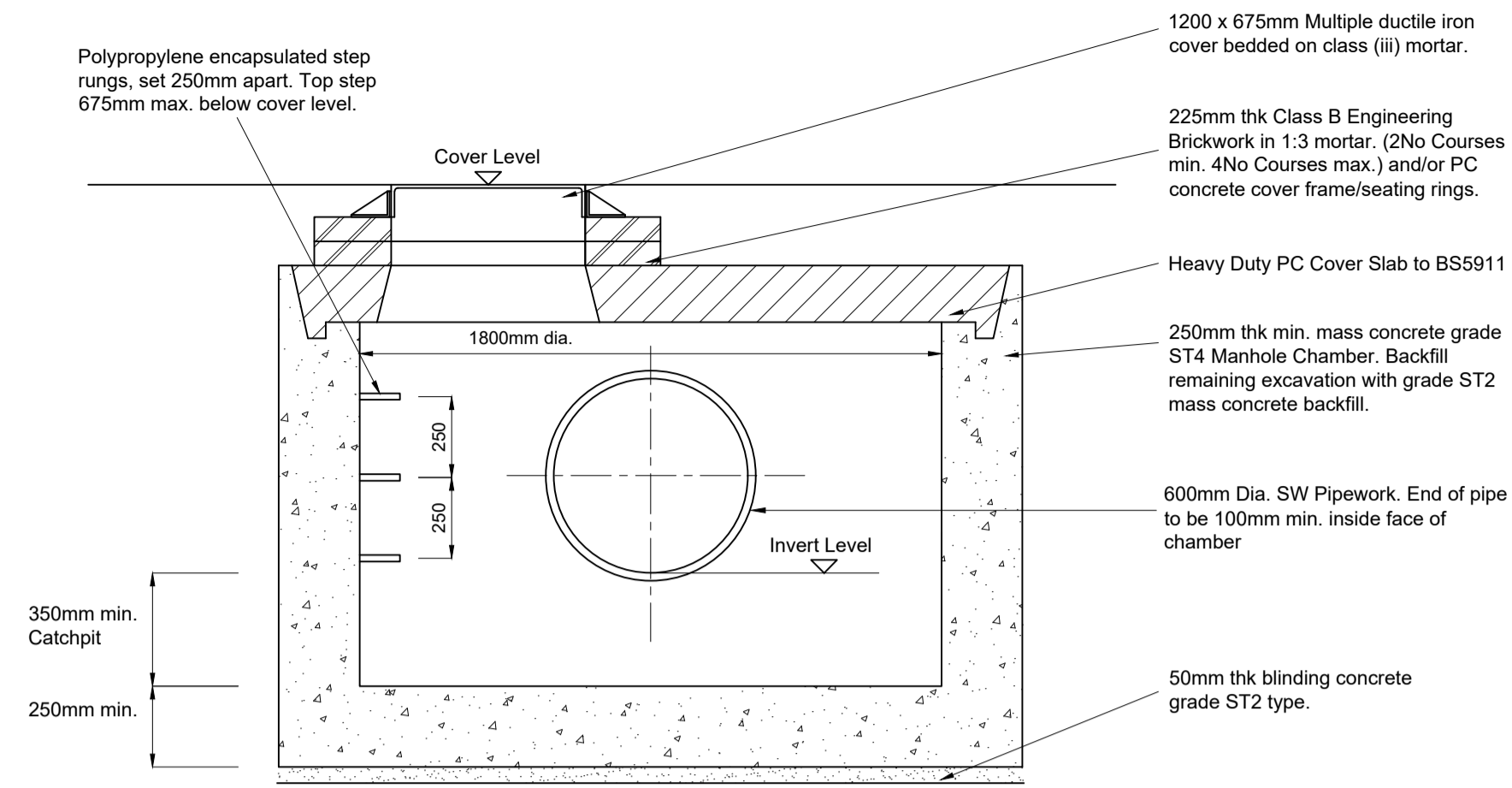
Consulting Structural & Civil Engineers
Nottingham • Sheffield • Lincoln
www.collinshallgreen.co.uk

Project
**Lubblethorpe Bridle Road
Braunstone**

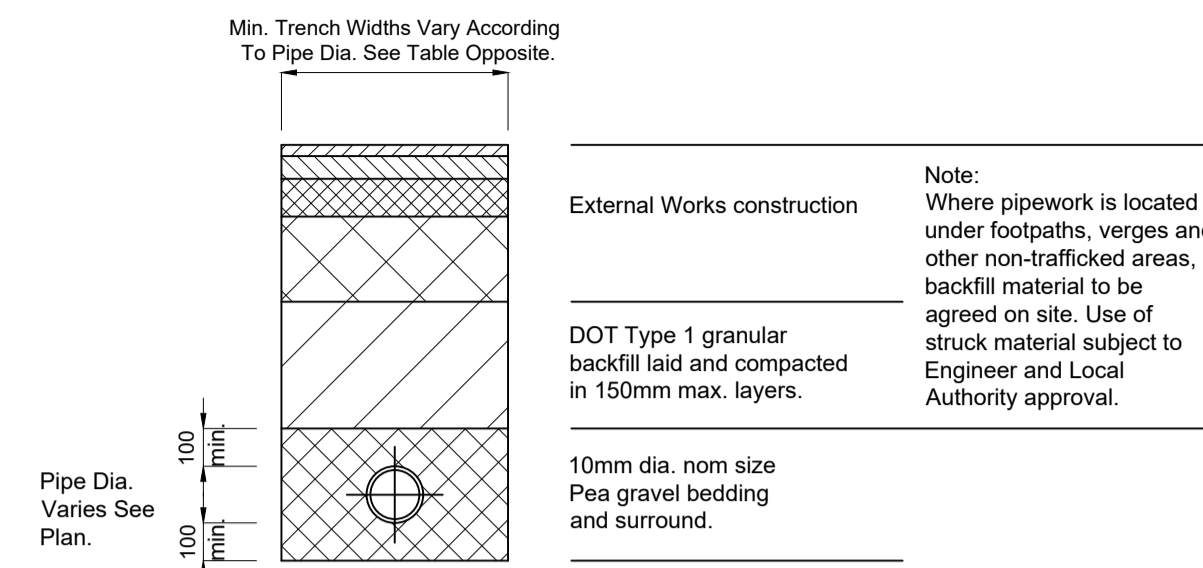
Title
Proposed Land Drain GA Plan

Orig Scale	Drawn	Checked	CHG job No.
Noted	AL	-	J522

Drawing Number	Revision
J522-CHG-Z0-00-DR-C-5020	P01



Typical Manhole Detail - 1:20



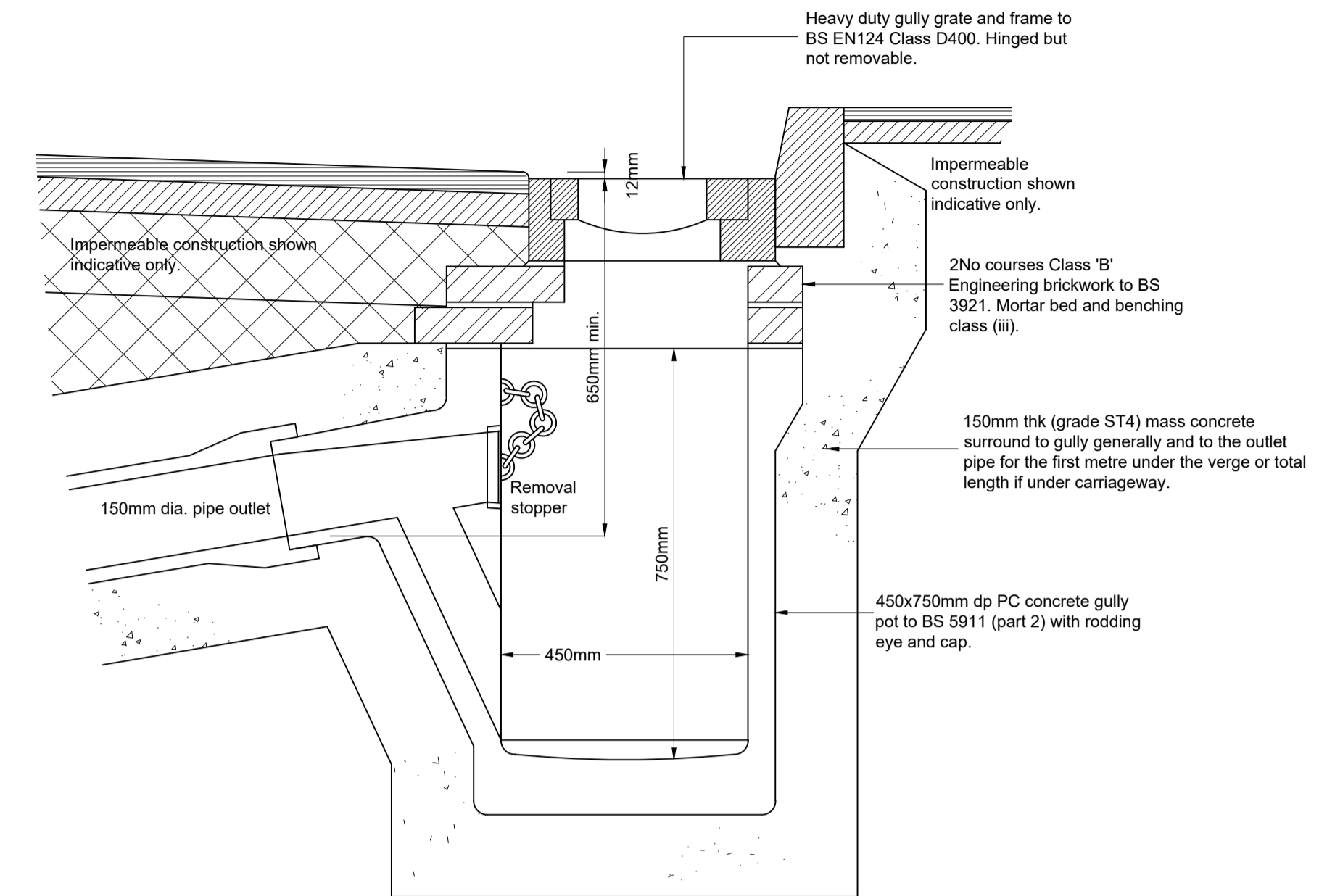
Pipe Bedding Detail Type S

Note: RIGID PIPEWORK CLAYWARE 100 - 600mm Dia. & CONCRETE 300 - 600mm Dia.: Applicable where pipework has more than 1200mm cover under trafficked areas or more than 600mm under non-trafficked areas.

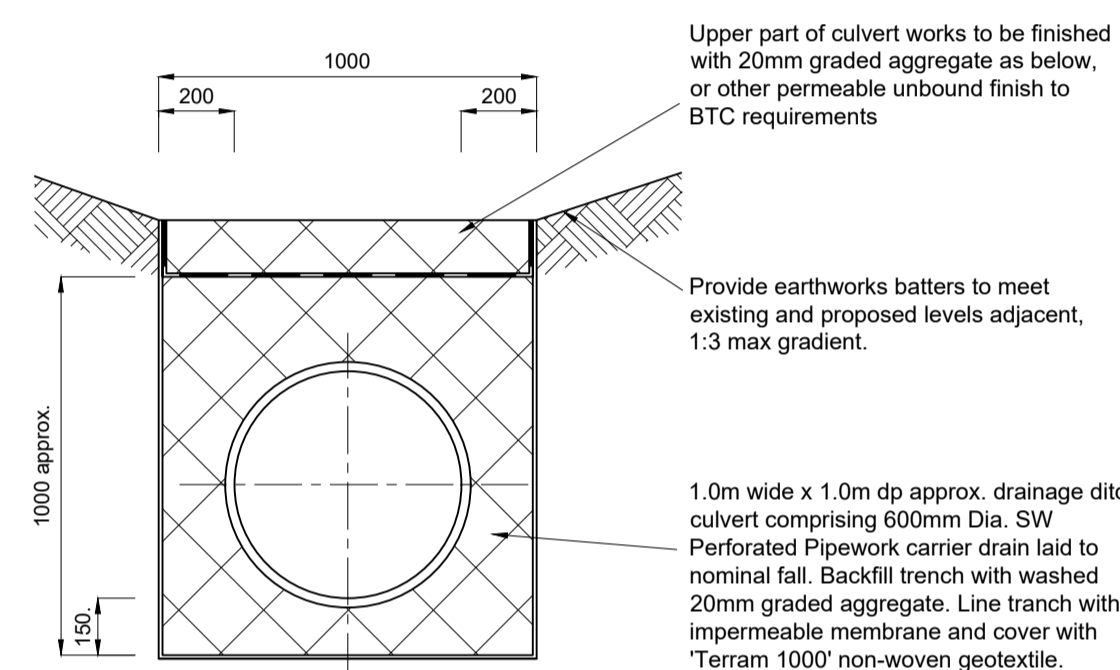
FLEXIBLE PIPEWORK PLASTICS (nominal ring stiffness SN4): Applicable where pipework has more than 1200mm cover under trafficked areas or more than 600mm under non-trafficked areas.

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1200	2300
Over 1200	Pipe Dia. + 1000

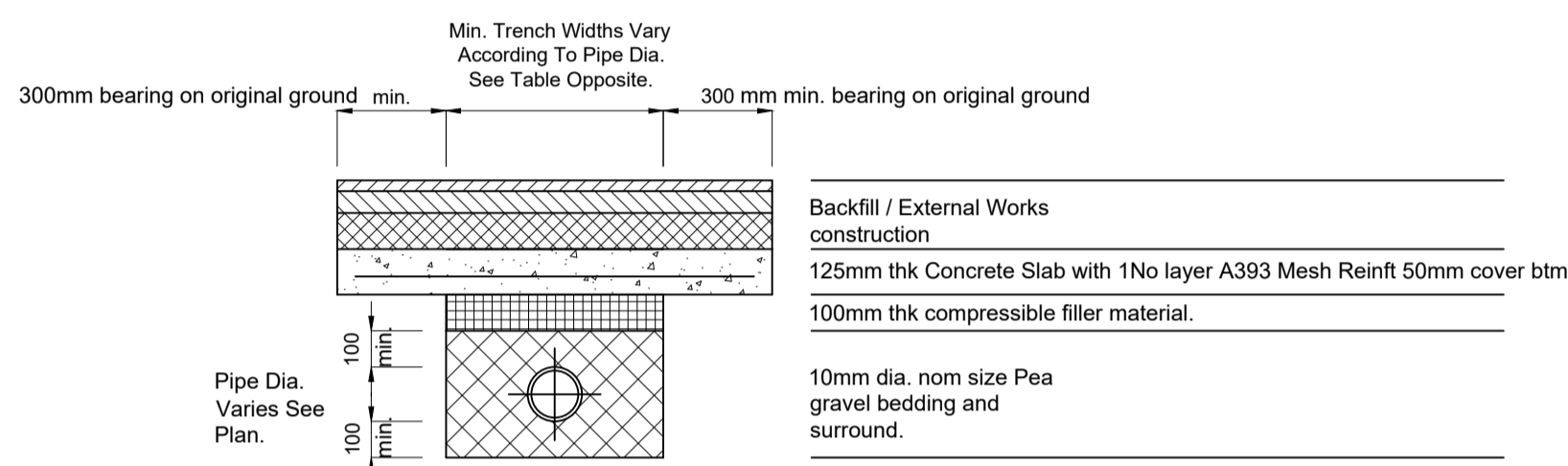
Note: No Mechanical compaction techniques to be used within 300mm of the crown of all pipework. See Structural Engineers details for pipework laid under buildings / through foundations etc.



Typical Road Gully Detail - 1:10



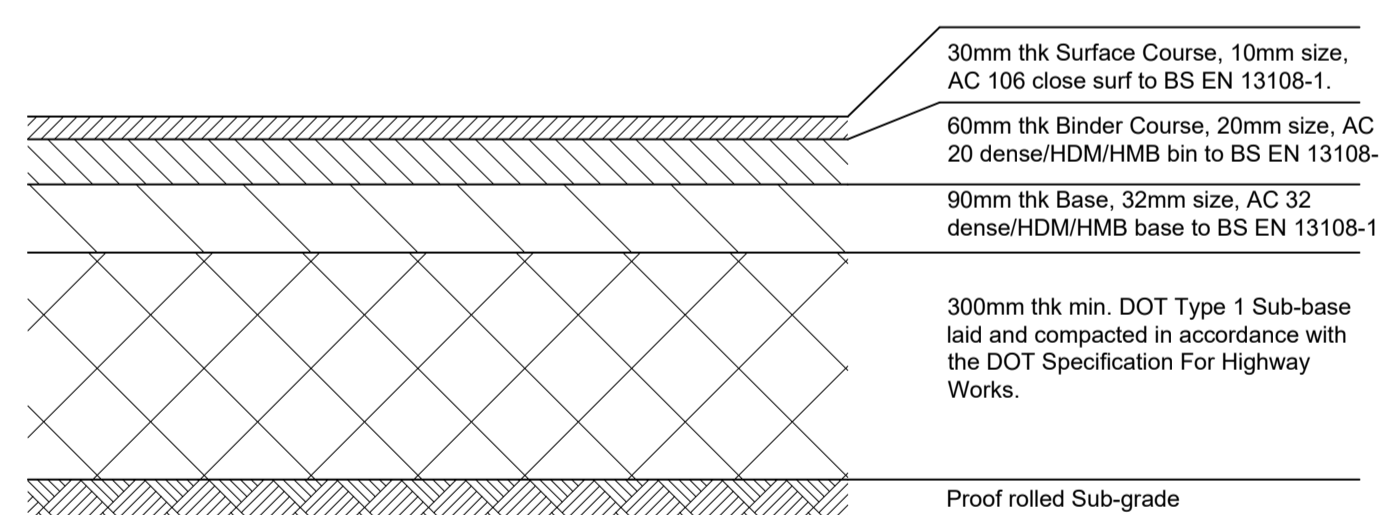
Drainage Ditch Reinstatement Detail - 1:20



Protection For Pipes Laid At Shallow Depths

Note: RIGID PIPEWORK CLAYWARE 100 - 600mm Dia. & CONCRETE 300 - 600mm Dia.: Applicable where pipework has less than 1200mm cover under trafficked areas or less than 600mm under non-trafficked areas.

FLEXIBLE PIPEWORK PLASTICS (nominal ring stiffness SN4): Applicable where pipework has less than 1200mm cover under trafficked areas or less than 600mm under non-trafficked areas.



Car Park Construction Detail

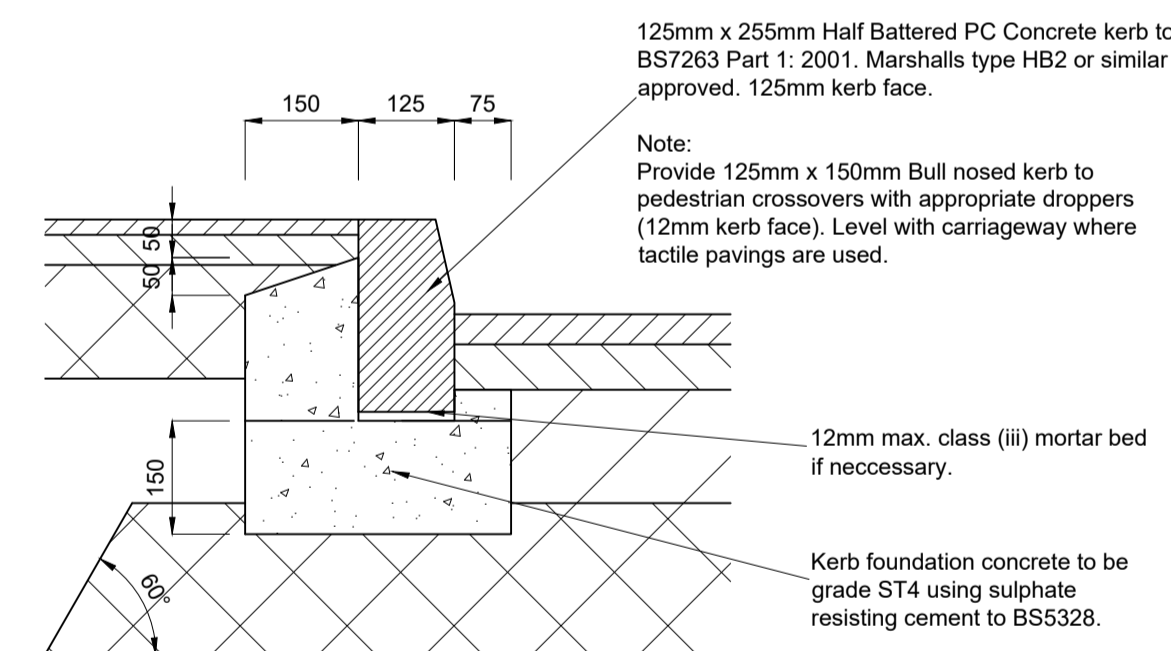
Note: This detail to be read in accordance with the Department of Transport's Specification for Highway Works.

The above construction thicknesses are all subject to onsite CBR tests prior to construction. A CBR Value of 3% has been assumed.

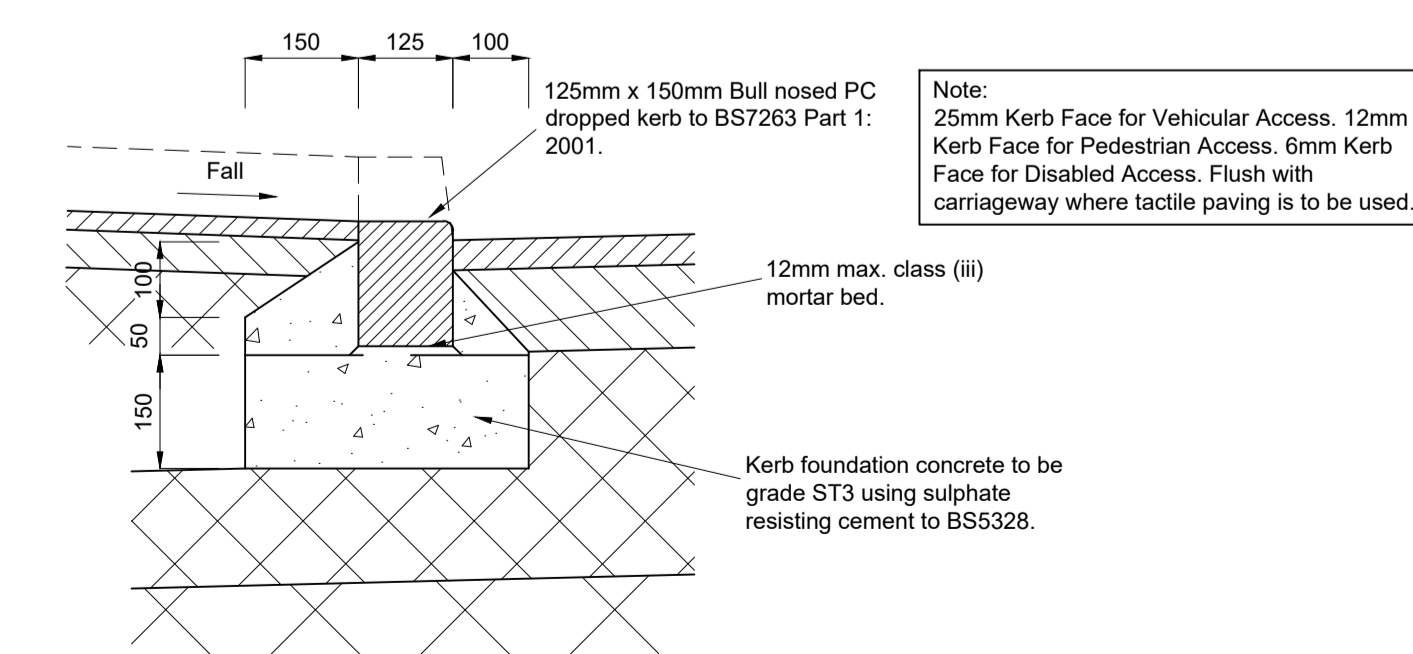
Minimum overall pavement construction thickness 450mm.

Capping Layer and Sub-base Thicknesses min.		
Sub-Grade (CBR)	Capping + Sub-base (mm)	Sub-base Only (mm)
2%	600 + 150	-
2.5%	400 + 150	350
3%	350 + 150	300
4%	300 + 150	275
5%	250 + 150	225
8%	225 + 150	200
10%	175 + 150	175
15%	-	150

Note: Min. Pavement Construction Thickness 450mm



Typical Half Battered Kerb Detail - 1:10



Typical Dropped Kerb Detail - 1:10

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Date	Description	AL	CHD	P11
29.02.24	Preliminary Issue			

Drawing Status: Preliminary

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Tel: 01159 417145
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Project: Park Car Park Re-construction Kingsway, Braunstone

Title: Typical External Works Details

Drawn	Checked	CHG job No.
Noted	AL	J522

Drawing Number	Revision
J522-CHG-Z0-00-DR-C-5010	P01