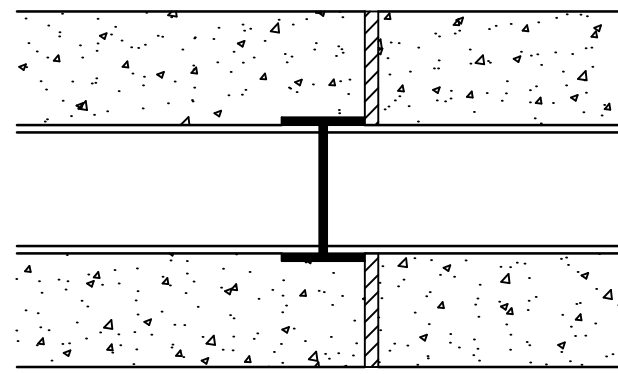
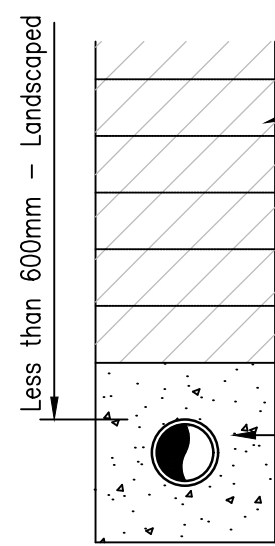




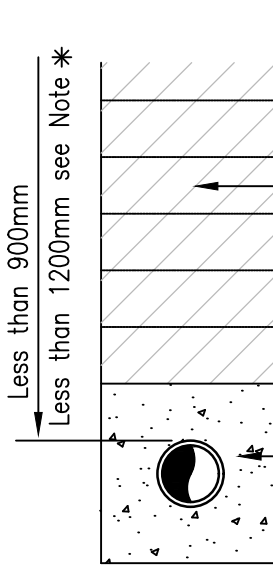
Expansion Joint Detail to
Pipe Concrete Bed & Surround
1:20



Clay/Concrete/PVCu
Pipe Bedding Details
Under 600mm Landscaped
1:20

NOTE: *
Where PVCu pipes larger than 300mm diameter are used in vehicularized areas, the concrete protection detail shall be installed up to 1200mm cover.

NOTE:
Concrete protection detailed to be installed where pipes are near foundations (see separate detail) and as above in accordance with Part H of Building Regs., clause 2.45



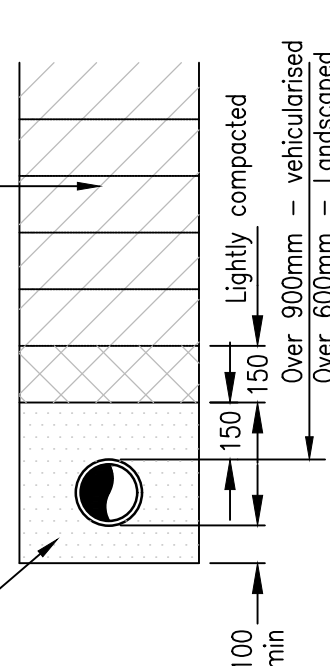
Under 900mm
(under 1200mm see Note *)
Over 900mm-Vehicular
Over 600mm-Landscaped
Pipe Bedding Details
Concrete, Clay & PVCu Pipes
1:20

LANDSCAPED AREAS
Selected fill material free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material, organic matter and all other deleterious material. To be compacted by an approved method in layers not exceeding 150mm thick.

VEHICULARISED AREAS
Well graded crushed concrete free from steel, timber and all other deleterious material. To be compacted by an approved method in layers not exceeding 150mm thick.

150mm minimum C20 concrete bed and surround with 18mm flexcell (or similar approved) expansion joint to be located at all pipe joints. Where pipe is cased in concrete.

Imported granular bed and surround. See table.



Granular materials for Pipe Bedding

TO BE EITHER

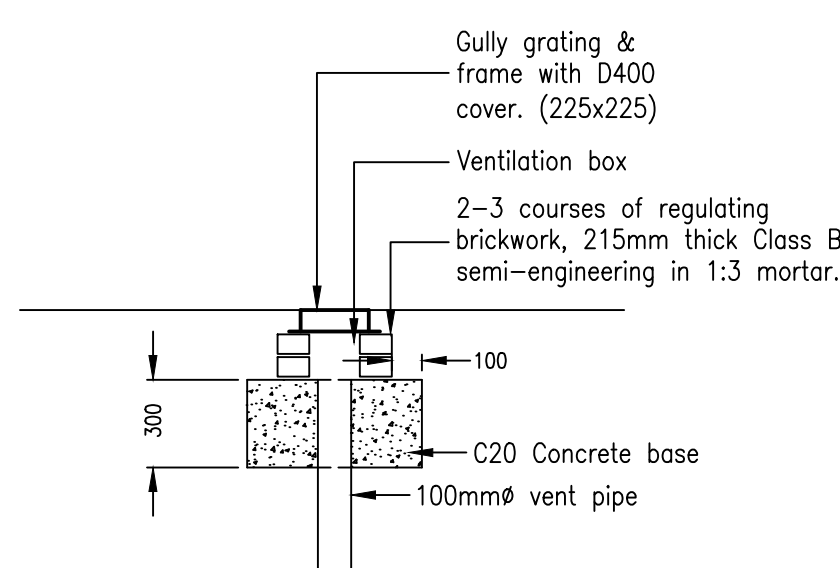
Nominal single size aggregate complying with table 4 of BS 882:1992 as follows:

DN 100 10mm size
DN 150 10mm or 14mm size
DN 200 to DN300 10mm, 14mm or 20mm size
DN 375 to 525 14mm or 20mm size
DN 600 and above 14mm or 20mm or 40mm size

OR

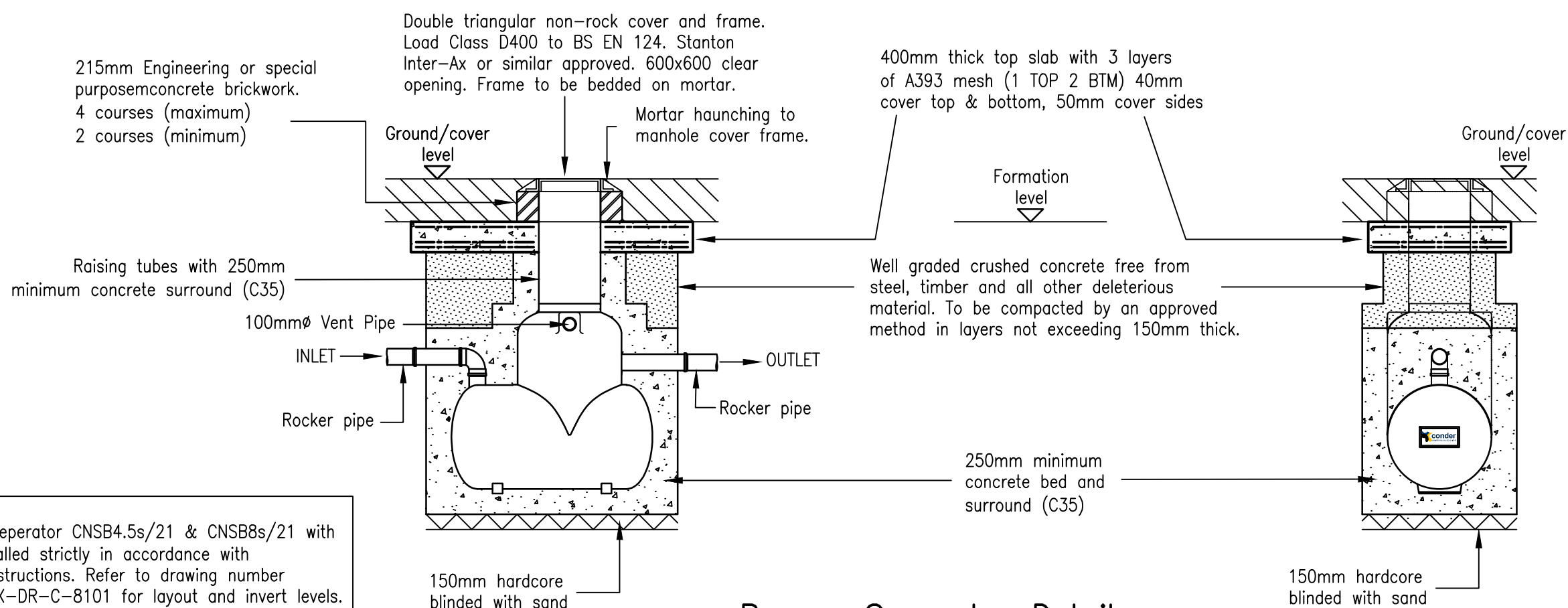
Graded aggregate complying with table 4 of BS 882:1992 as follows:

DN 100 14mm to 5mm
DN 150 to DN 525 20mm to 5mm or 14mm to 5mm
DN 600 and above 40mm to 5mm or 20mm to 5mm or 14mm to 5mm

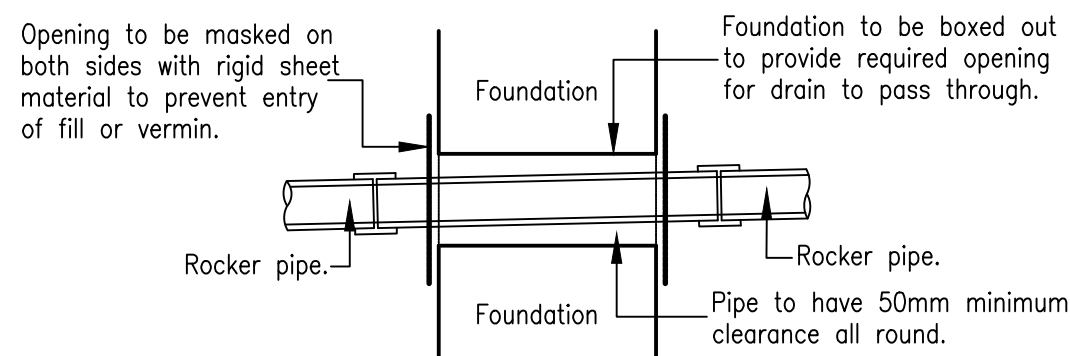


Bypass Separator Vent Detail
1:25

Notes:
Conder Bypass Separator CNSB4.5s/21 & CNSBs/21 with silt capacity installed strictly in accordance with manufacturers instructions. Refer to drawing number 9641-PTA-ZZ-XX-DR-C-8101 for layout and invert levels. To be fitted with alarm system. Power supply and cabling required.



Bypass Separator Detail
1:50



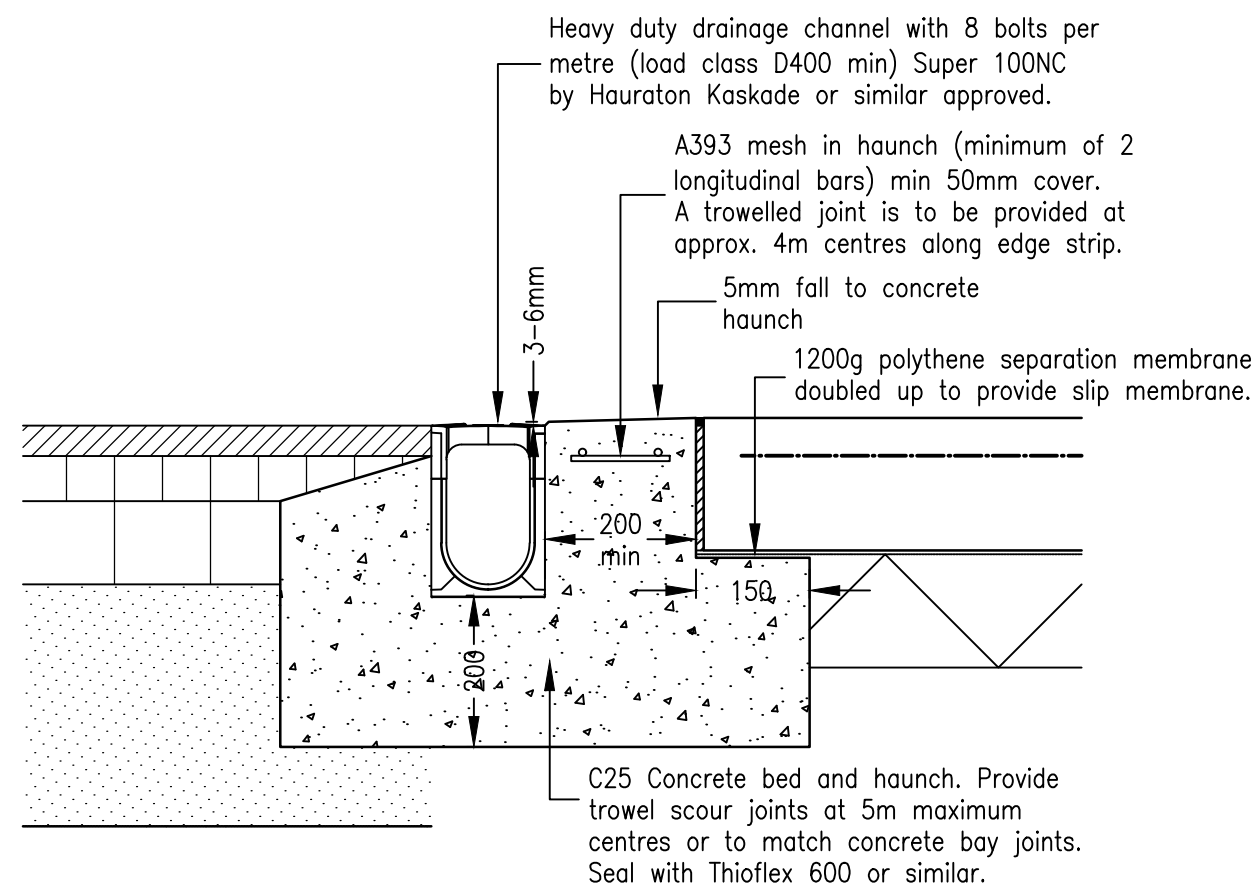
Detail Where Drain Passes
Through Foundation
1:20

* HiCap Channel should be installed strictly in accordance with Manufacturers instructions.
* Ensure a fall in concrete surround so that the top of throat is 2-5mm below concrete slab level.
* Where concrete bay joints intersect HiCap Channel's concrete surround, install a 2 Part crack inducer/joint former by SCP Concrete Sealing Technology Ltd or similar approved. Seal over top of crack inducer with Thioflex 600 from Fosroc or similar. See Contraction joint detail (Cj) for details & Plan Layout dwg.
* Contractor to ensure no concrete enters Gatic Slot Drain.

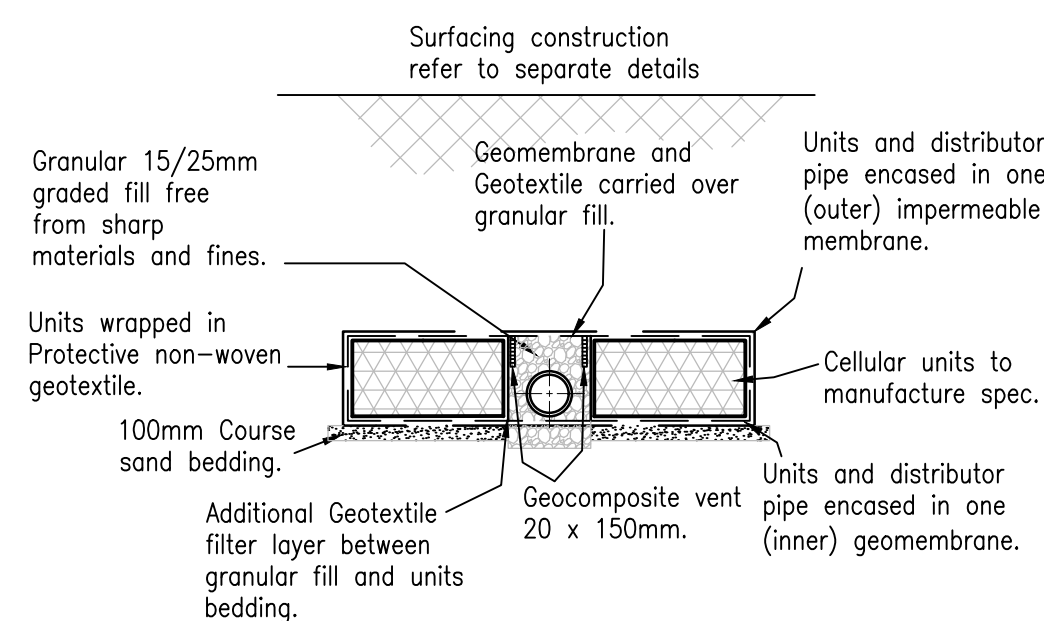
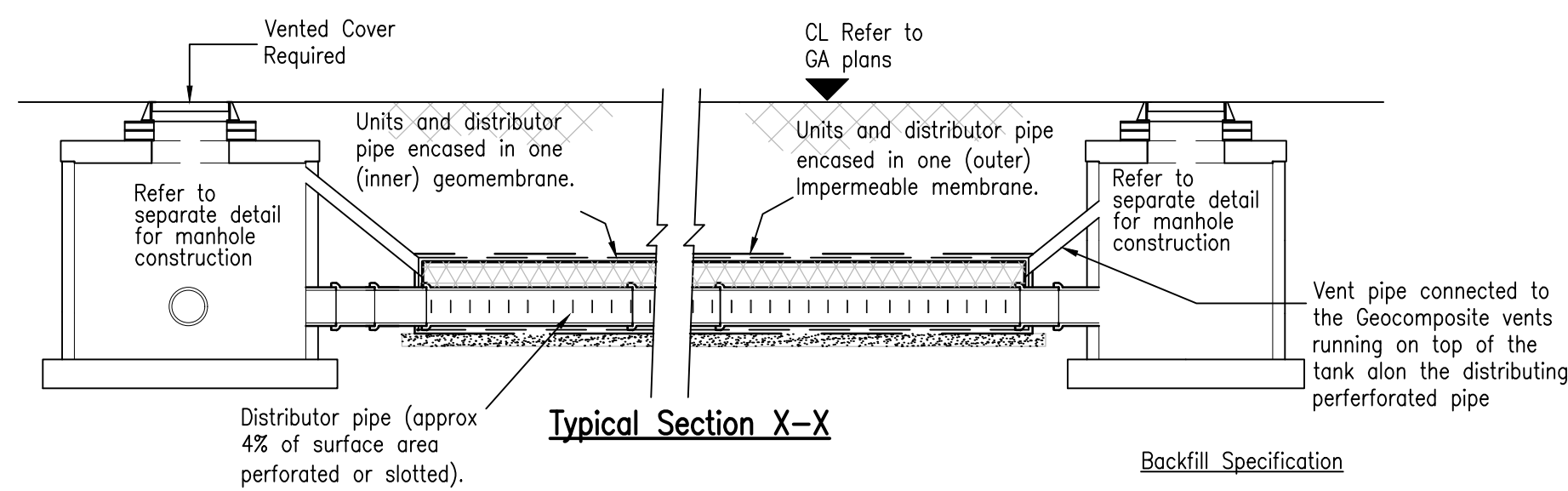
* 20mmØ Dowel bar covered for minimum of 550mm by an approved sheath.
* The dowel bars shall be placed at 300mm centres. This spacing shall be varied where necessary so that no dowel bar is within 150mm of a joint parallel to the bar.

* C35 mass concrete bed and surround.
* Fully compact concrete to full depth (until air bubbles cease to appear on the surface).
* Poker vibrators must not come into contact with Gatic slot drain or filler board.
* Poker vibrators should be inserted at no more than 500mm centres, or drawn continuously across the concrete surround.
* Brush finished & trowelled margins to match slabs.

Hauraton Recyfix HiCapF 3000
Channel Detail
(1:10)



Hauraton Recyfix Monotec 100 type 230
Channel Detail
(1:10)



Typical Section Y-Y
Attenuation Detail
1:50

Backfill Specification

Non Trafficked Areas: Can be backfilled with selected dug material free from sharp materials or gravel above 75mm diameter. To be compacted to 90% maximum dry density. A minimum of 300mm working space will be required around the units to allow compaction.

Trafficked Areas: To be backfilled with Type 1 or Type 2 material as defined in the specification for Highway Works Table 6/1 or 8/1 and taking into account the recommended maximum roller weight.

Notes

Refer to GA plans for: tank size, pipe size, cover and invert levels.

Geotextile wrap, non-woven geotextile and geomembrane to be as per manufacture details / guidance.

Notes:

- Do not scale from this drawing.
- In case of any discrepancies in drawings, details or bills, refer to engineers for clarification: unilateral decisions by the Contractor will not be accepted.
- This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA Structural Department.

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DRAWING STATUS

COMMENT/COSTING/APPROVAL
NOT FOR CONSTRUCTION

P01 First Issue TA 06.09.19 SLW

PROJECT TITLE

Spring Business Park,
Havant

Drainage Construction Details
Sheet 2 of 2

DATE Aug 19
DRAWN TA
SCALE As Shown
DRG SIZE A1
DRAWING No
This drawing is issued only for the purposes described in the drawing status box.
PTA PROJ No 9641
REVISION P01

9641-PTA-ZZ-XX-DR-C- 8132

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