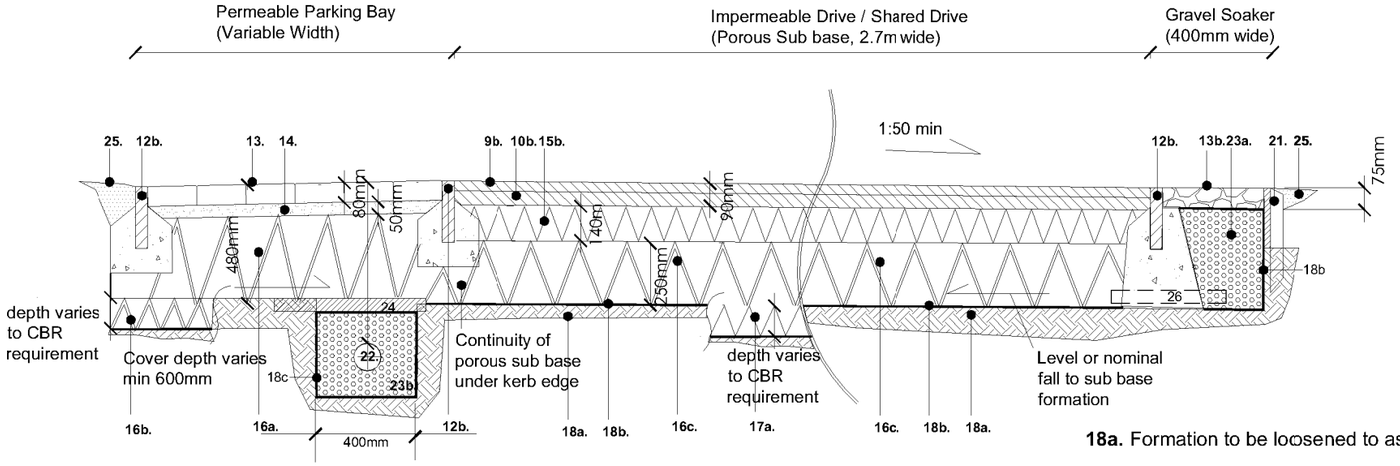
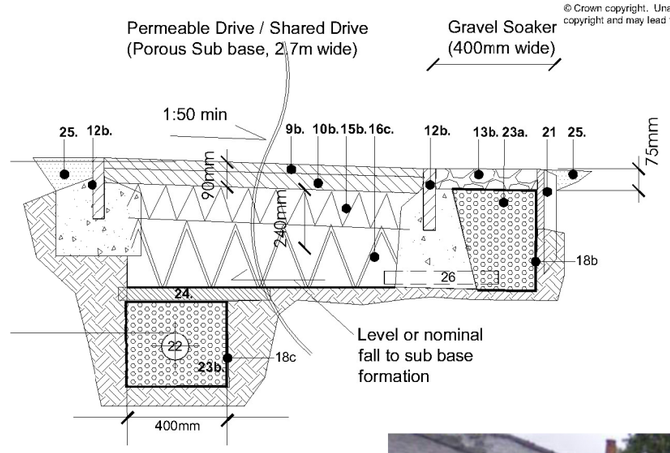
Porous Drive and Parking Bay Gravel Soaker



Porous Drive with Gravel Soaker



Notes
1) Figured dimensions to be taken. Do not scale dimensions. Contractors must verify all dimensions on site before preparing shop drawings or commencing any work.
2) Copyright © This drawing must not be reproduced without the permission of The Groundwork Trust
3) Reproduced from Ordnance Survey mapping with permission of the controller of HMSO.

© Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Notes:
Works By MCC outside of this contract:

1. Existing Concrete / HRA / DBM road treated to MCC recommendations.

2. Geogrid laid as to MCC recommendations.

3. DBM binder and wearing course to MCC details.

4. New HB2 PCC kerb and hauch to MCC details.

5. Pavement sub base constructed to MCC details.

6. Pavement road base constructed to MCC details.

7. HRA surfacing to pavement with rolled in (red) chippings to MCC details.

8. 250 x 50mm PCC edging kerb with 100mm bed and haunch (or to MCC details where to rear of highways)

Works to DRIVEWAYS & OVER-RUN STRIPS included in this contract:

9. HRA 30 / 14 surface course with 40 / 60 grade binder to PD 6691 Annex C, 40mm thickness.

9b. AC 10 close surface course with 100 / 150 binder to PD 6691 Annex B 30mm thickness.

10a. AC 20 dense binder course with 40 / 60 grade binder to PD 6691 Annex C, 60mm thickness.

10b. AC 20 dense binder course with 100 / 150 bindr to PD 6691 Annex B, 60mm thickness.

11. AC 32 base course with 40 / 60 grade binder to PD 6691 Annex B, 100mm thickness.

12a. 150 x 50mm PCC edging kerb with 150mm GEN / ST2 bed and haunch to restrain tarmac.

12b. 250 x 50mm PCC edging kerb with 100mm GEN1 / ST2 bed and haunch to restrain blockwork.

13. Tobermore Hydropave pedesta, 240 x 120 x 80mm concrete block paving unit, units laiid in a herringbone pattern. Colour - brindle. To be plat:e vibrated after laying and before joint filling. 6.3-2mm grit to be brushed into unit joints to completly fill joints.

13b. 15mm single sized sub angular hard limestone aggregate depth 75mm

14. Bedding layer - 50mm 6.3-2mm bedding grit.

15. Type 1 granular material rolled and compacted by 6t deadweight roller or vibrating rol ler equivalent:

15a. depth 240mm (where non-por ous)

15b. depth 140mm (where overlaid over porous sub base)

16. Porous sub base - 4/ 20mm we ll compacted permeable aggregate to BS13242:2002:

16a. depth 350mm (under permeab le blockwork / gravel) where CBR is 5% or greate r.

16b. adjustment to pavement design for low CBR:
CBR 1% = +300mm
CBR 2% = +175mm
CBR 3% = +125mm
CBR 4% = +100mm

16c. depth 250mm (under imperme able drive)
16d. depth 75mm under gravel surffacing
16e. depth 280mm (under over-run strips)

17. 6F2 crushed stone / hardcore s ubgrade improvement layer where low CBR :

17a. Driveways (bitmac)
CBR ≤ 2% = 150mm
CBR > 2% = non

17b. Under over-run strips
CBR < 2% = 250mm
CBR 2.0 - 2.5% = 125mm
CBR 2.5 - 3.0% = 100mm
CBR >3.0% = non

18a. Formation to be loosened to assist infiltration.

18b. Geotextile separation (300mm overlaps at all joints):Terram 1500 or Polyfelt TS40or similar non woven geotextile, min 2100N CBR puncture resistance / 12.5N tensile strength.

18c. Geotextile filtration (300mm overlaps at all joints to fully wrap filter drains): Terram 1000 or Polyfelt TS20 or similar non woven geotextile, min 1500N CBR puncture resistance / 8N tensile strength.

19. Rigid trims to over-run strips 200 x 100 x 80mm Tobermore pedesta concrete block paving (brindle) unit laid solder (header) course on 150mm concrete bed / 100mm haunch GEN 1 / ST2.

21. 25x150mm pressure treated softwood edge board with 50x50x450 pointed softwood pegs at 1m centres securely fixed with 2no ring shanked galvanised nails

22. Twin walled rib perforated pipe with solid invert and fittings to meet BS 44962 1999 to contractors proposals 100mm diameter designed to a nominal fall of 1:100

23a. Filter drain (no pipe)
23b. Filter drain (below ground piped)

filled with Granular material conforming to BS EN 1610. Material size : 10mm nominal single size or 14 to 5mm graded or

24. 600x600x63mm Fibre reinforced PCC flag paving units spaced at 50mm gaps to protect pipework.

25. Grass edge - reinstate using suitable retained top soil. Settled depth of top soil to grass ed area 15mm above paving, ensuring no trips are formed and concrete haunch adequatley covered.

26 Solid 60mmdiax500mm pipe @ 1m c/s geotextile wrapped passing thru' from porous subbase to drain



Typical Driveway and Parking Bay

Rev	Description	Drwn	Check	Date
F	Dimensions added for clarity	AP	PH	23.09.10
E	Porous sub base depth amended for low CBR	AP	PH	14.07.10
D	Linear drainage / Over-run strip construction amended	AP	PH	25.06.10
C	Linear drainage / Over-run strip construction amended	AP	PH	22.06.10
B	Linear drain amended	AP	PH	15.06.10
A	Block unit size ammended	AP	PH	04.06.10

Southway Housing Trust

GROUNDWORK

CHANGING PLACES CHANGING LIVES

Project: Southway Housing Trust Driveway Improvements

Drawing Title: Drive& Over-run Strip Long Section

SCALE	DATE	DRAWING NO.	REV	DRAWN BY	CHECKED BY
1:25 @ A3	30.09.10	1612-022	F	AP	PH

Groundwork in Manchester, Salford, Stockport, Tameside & Trafford.
Timber Wharf, 42-50 Worsley Street, Castlefields Manchester, M15 4LD Tel: 0161 220 1000