

ACO BRICKSLOT DRAIN  
(OR SIMILAR)  
AT THRESHOLDS  
(1:20)

200mm  
CONCRETE  
SURROUND

ACO ROAD DRAIN 100.

(1:20)

[illegible]

FOR SURFACING TYPES SEE  
LANDSCAPE ARCHITECTS  
DETAILS

BLOCK  
PAVING  
30mm THICK LAYER 5mm CLEAN STONE BEDDING  
TERRAM 1000  
6-20mm CLEAN CRUSHED STONE SUB BASE  
DEPTH 150mm

BEDDING  
LAYER

VARIES 300mm OR 600mm

PERMEABLE FOOTPATH  
SURFACE DETAIL  
(BLOCK PAVING AROUND BUILDING)

(1:20)

ADOPTABLE FOOTWAY  
(TYPICAL SECTION)

(1:20)

A cross-sectional diagram of a main trafficked car park construction. On the left, a green hatched area represents the 'GRANITE SETTS'. To its right is a thick, light-colored layer labeled 'CAPPING LAYER, DEPTH VARIES (SEE TABLE)'. Below this are several horizontal layers representing different aggregate and binder courses. Arrows point from the following list to these layers:

- 30mm CLOSE GRADED SURFACE COURSE (10mm AGGREGATE)
- 60mm CLOSE GRADED BINDER COURSE (20mm AGGREGATE)
- 90mm DENSE BASE (24mm AGGREGATE)
- 150 TYPE 1 GRANULAR SUB-BASE

The diagram shows the vertical build-up of the pavement structure from the sub-base up to the surface course.

**MAIN TRAFFICKED CAR PARK CONSTRUCTION**  
(TYPICAL SECTION)  
(1:20)

125x225 HB KERB WITH 150mm GENTLE BED AND BACKING

150mmØ SLOTTED PIPE

50mm PERMEABLE PAVING BLOCKS

50mm DEEP 2-6mm CLEAN CRUSHED STONE.

SUB-BASE 6-20mm CLEAN CRUSHED STONE. DEPTH AS LAYOUT PLAN

225

STABILISATION INTERGRID FOR SUB BASE DEPTHS >450mm

WELDED IMPERMEABLE MEMBRANE

TERRAM 1000 GEOTEXTILE SURROUND TO PIPE AND BEDDING LAYER

CAPPING UNDER TO SUIT CBR VALUE SET TABLE

## PERMEABLE BLOCK PAVING PARKING

(1:20)

Diagram illustrating the components and installation of a Bottle Gully Connection:

- REMOVABLE PLUG FOR RODDING
- COVER CUT TO SUIT
- BOSS FOR LAND DRAIN CONNECTION
- BACKFILL WITH MINIMUM 150mm SUITABLE GRANULAR MATERIAL
- BOTTLE GULLY TO BS 4660
- TO MAIN DRAIN
- INSITU CONCRETE BASE

**BOTTLE GULLY CONNECTION.**

(1:20)

INTERNAL RWP

FFL

L LINTEL

T BEND

MASK OPENING ON BOTH SIDES WITH RIGID SHEET MATERIAL

(1:20)

SOIL AND VENT PIPE

FFL

REST BEND

ROCKER PIPE

150mm GEN1 CONCRETE SURROUND

150mm Ø UPVC SLEEVE

TO MAIN DRAIN

**FOUL CONNECTION TO MAIN DRAINAGE.**

(1:20)

| CAPPING              |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| CBR $\leq$ 1%        | CONSIDER STABILISATION OF WEAK MATERIAL OR MIN 600mm CAPPING ON GEOTEXTILE + 150mm SUB-BASE |
| CBR $\leq$ 2%        | 600mm CAPPING, 150mm SUB-BASE. GEOTEXTILE BENEFICIAL                                        |
| 2% < CBR $\leq$ 2.5% | 450mm CAPPING, 150mm SUB-BASE                                                               |
| 2.5% < CBR $\leq$ 5% | 350mm CAPPING, 150mm SUB-BASE OR 350mm SUB-BASE                                             |
| 5% < CBR $\leq$ 15%  | 225mm SUB-BASE                                                                              |
| CBR > 15%            | 150mm SUB-BASE                                                                              |

GENERAL NOTES

1. The location, size, depth, identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to Haworth McCall prior to works commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be site confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements
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## DRAINAGE GENERAL

- ALL FOLI, FOLI AND STORM WATER DRAINS WHICH ARE NOT TO BE ADOPED AS PUBLIC SEWERS UNDER A SECTION 104 AGREEMENT MUST BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 12056 AND WHERE APPROPRIATE THE RELEVANT AGREEMENT CERTIFICATES.
  - (ii) MANHOLES, GULLIES, GULLY CONNECTIONS, SEWERS AND OTHER SEWAGE STRUCTURES INTENDED TO CONVEY SURFACE WATER ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE WATER AUTHORITY APPROVED SPECIFICATION AND STANDARDS FOR ADOPTION 6TH EDITION AND RELEVANT COUNCIL DESIGN GUIDE.
  - (iii) ALL CONCRETE USED IN DRAINAGE WORKS TO COMPLY WITH BRE DIGEST 367 FOR CLASS 2 SULPHATE CONDITIONS.
- MANHOLE COVERING AND SLABS**
- (i) MANHOLE COVERS TO BE CLASS A400 IN HIGHWAYS, CLASS B125 IN FOOTPATHS AND VERGES, CLASS D150 IN NOT-TRAFFICED AREAS.
  - (ii) MANHOLE COVER AND FRAME TO BE BEDDED AND SURROUNDED IN 1:3 MOTAR.
- MANHOLE RINGS, COVER SLABS & TAPERS**
- (i) PRECAST CONCRETE MANHOLE UNITS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5911. THE RELEVANT ABSORPTION TESTS REQUIRED SHALL BE CARRIED OUT ON A SAMPLE OF THOSE RINGS AND COVER SLABS. A CERTIFICATE OF ANALYSIS SUPPLIED BY THE MANUFACTURER, COVER SLABS SITUATED UNDER CARRIAGEWAYS OR TRAFFICED AREAS SHALL BE HEAVY DUTY AND THOSE ELSEWHERE SHALL BE LIGHT DUTY. MANHOLE UNITS SHALL BE COMPLETE WITH STEP IRONS IF REQUIRED.
- PIPES**
- (i) PLASTIC PIPES SHALL BE OF UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) COMPLYING WITH THE REQUIREMENTS OF BS EN 14021.
  - (ii) CONCRETE PIPES SHALL BE SPUN BY A CENTRIFUGAL PROCESS OR BE FULLY PRESTRESSED, THEY SHALL BE FULLY TESTED BY INVERTING SOCKETS AND SHALL COMPLY WITH THE SELF REINFORCING OR BE TESTED IN ACCORDANCE WITH BS 5911.
  - (iii) SLOD WALL CENTRIC EXTERNAL RING-REINFORCED CONCRETE PRESTRESSED PVC PIPE SHALL COMPLY WITH ASTM A578.
  - (iv) ALL PIPES SHALL BE LAPPED AND JOINTS TO BE IN ACCORDANCE WITH BS EN 251.
  - (v) ALL PIPE CONNECTIONS TO MHS AND CATCH PITS TO HAVE MIN 600MM ROCKER PIPE AS CLOSE AS PRACTICABLE TO CHAMBER WALL.
- GULLY GRATES & FRAMES**
- (i) GULLY GRATES AND FRAMES FOR CARRIAGEWAYS GULLIES SHALL COMPLY WITH BS EN 14242. GULLIES SHALL BE PATTERN G84-325 FOR DRAINS BELOW 50 DV AND PATTERN G42-450 FOR GULLIES ABOVE 50 DV. GULLY GRATES AND FRAMES FOR KERB SIDE GULLIES SHALL BE PATTERN G84-325 FOR DRAINS BELOW 50 DV AND G84-325 FOR GULLIES ABOVE 50 DV. ALL GULLY GRATES SHALL COMPLY WITH IN ROADS WHERE THE GRADIENT EXCEEDS 4%.

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|                                                                                                                                                                                                                                                                                                                        |      |             |    | <b>ISSUE/REVISION</b> |        |
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| Client                                                                                                                                                                                                                                                                                                                 |      |             |    |                       |        |
| SCOUT ASSOCIATION                                                                                                                                                                                                                                                                                                      |      |             |    |                       |        |
| Project                                                                                                                                                                                                                                                                                                                |      |             |    |                       |        |
| SCOUT STORES, MARLBOROUGH ROAD,<br>LANCING, BN15 8UG                                                                                                                                                                                                                                                                   |      |             |    |                       |        |
| Drawing Title                                                                                                                                                                                                                                                                                                          |      |             |    |                       |        |
| CONSTRUCTION DETAILS<br>SHEET 2 OF 2                                                                                                                                                                                                                                                                                   |      |             |    |                       |        |
| Issued for                                                                                                                                                                                                                                                                                                             |      |             |    |                       |        |
| FOR CONSTRUCTION                                                                                                                                                                                                                                                                                                       |      |             |    |                       |        |
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