



**CARRIAGEWAY CONSTRUCTION**

| LAYER          | CLAUSE  | MATERIAL             | BINDER | THICKNESS | SPECIAL REQUIREMENTS           |
|----------------|---------|----------------------|--------|-----------|--------------------------------|
| SURFACE COURSE | 937/942 | SMA                  |        | 30mm      | DESIGN MIXES TO BE APPROVED    |
| BINDER COURSE  | 906     | DENSE MACADAM BINDER |        | 70mm      | IN ACCORDANCE WITH BS EN 13108 |
| BASE           | 906     | DENSE MACADAM BASE   |        | 250mm     | IN ACCORDANCE WITH BS EN 13108 |

**FOUNDATION TYPE A**

| LAYER               | CLAUSE | MATERIAL                        | BINDER | THICKNESS | SPECIAL REQUIREMENTS           |
|---------------------|--------|---------------------------------|--------|-----------|--------------------------------|
| SUB-BASE            | 803    | GRANULAR SUB BASE TYPE 1        | N/A    | 170mm     | BASED ON SUBGRADE CBR 10% MIN. |
| CAPPING             | 613    | GRANULAR MATERIAL 6f1 TO 6f5    | N/A    | 170mm     | BASED ON SUBGRADE CBR 10% MIN. |
| GEOTEXTILE MEMBRANE |        | TERRAM 1000 OR SIMILAR APPROVED | N/A    |           | IF INSTRUCTED BY ENGINEER.     |
| SUB-BASE ONLY       | 803    | GRANULAR SUB BASE TYPE 1        | N/A    | 240mm     | BASED ON SUBGRADE CBR 10% MIN. |

**FOUNDATION TYPE B**

| LAYER               | CLAUSE | MATERIAL                        | BINDER | THICKNESS | SPECIAL REQUIREMENTS            |
|---------------------|--------|---------------------------------|--------|-----------|---------------------------------|
| SUB-BASE            | 803    | GRANULAR SUB BASE TYPE 1        | N/A    | 350mm     | BASED ON SUBGRADE CBR 2.5% MIN. |
| CAPPING             | 613    | GRANULAR MATERIAL 6f1 TO 6f5    | N/A    | 250mm     | BASED ON SUBGRADE CBR 2.5% MIN. |
| GEOTEXTILE MEMBRANE |        | TERRAM 1000 OR SIMILAR APPROVED | N/A    |           | IF INSTRUCTED BY ENGINEER.      |
| SUB-BASE ONLY       | 803    | GRANULAR SUB BASE TYPE 1        | N/A    | 450mm     | BASED ON SUBGRADE CBR 2.5% MIN. |

APPROPRIATE SUBGRADE IMPROVEMENT TO BE CARRIED OUT WHERE REQUIRED TO ACHIEVE A MINIMUM CBR OF 2.5%

**FOOTWAY CROSSING CONSTRUCTION**

| LAYER          | CLAUSE | MATERIAL                     | BINDER  | THICKNESS | SPECIAL REQUIREMENTS           |
|----------------|--------|------------------------------|---------|-----------|--------------------------------|
| SURFACE COURSE | 909    | DENSE MACADAM SURFACE COURSE | 190 PEN | 30mm      | IN ACCORDANCE WITH BS EN 13108 |
| BINDER COURSE  | 906    | DENSE MACADAM BINDER COURSE  | 190 PEN | 50mm      | IN ACCORDANCE WITH BS EN 13108 |
| BASECOURSE     | 906    | DENSE MACADAM BASE           | 190 PEN | 60mm      | IN ACCORDANCE WITH BS EN 13108 |
| SUB-BASE       | 803    | GRANULAR SUB BASE TYPE 1     | N/A     | 270mm     |                                |

**FOOTWAY & FOOTWAY/CYCLEWAY CONSTRUCTION**

| LAYER          | CLAUSE | MATERIAL                     | BINDER  | THICKNESS | SPECIAL REQUIREMENTS           |
|----------------|--------|------------------------------|---------|-----------|--------------------------------|
| SURFACE COURSE | 909    | DENSE MACADAM SURFACE COURSE | 190 PEN | 20mm      | IN ACCORDANCE WITH BS EN 13108 |
| BINDER COURSE  | 906    | DENSE MACADAM BINDER COURSE  | 190 PEN | 60mm      | IN ACCORDANCE WITH BS EN 13108 |
| SUB-BASE       | 803    | GRANULAR SUB BASE TYPE 1     | N/A     | 150mm     |                                |

**VERGE SPECIFICATION**

| ITEM               | CLAUSE        | SPECIAL REQUIREMENTS  |
|--------------------|---------------|---|
| MAINTENANCE        | 3007 AND 3008 | MEDIUM FREQUENCY OF CUTTING                                 |
| SEEDING/TURFING    | 3005          | SEED MIX FOR SEEDING AND/OR TURF TO BE APPROVED BY ENGINEER |
| GROUND PREPARATION | 3004          | IN ACCORDANCE WITH SUB-CLAUSES 8-11                         |
| TOPSOIL            | 618           | CLASS 5A OR 5B 150MM THICK                                  |

**DO NOT SCALE**

- NOTES.
1. CBR'S TO BE CONFIRMED BY INSITU TESTS CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITY SPEC.
  2. WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW), LATEST EDITION AND THE CURRENT BRITISH STANDARDS.
  3. SHW CLAUSE NUMBERS SHALL APPLY IN THE EVENT OF CONFLICTING INFORMATION.
  4. THESE DETAILS INCLUDE THE USE OF HEAVY KERB/PAVING PRODUCTS WHICH THE CONTRACTOR IS EXPECTED TO HANDLE USING APPROPRIATE MECHANICAL HANDLING AIDS IN ACCORDANCE WITH HSE GUIDANCE.
  5. EXTENTS OF FOUNDATION TYPES TO BE CONFIRMED AFTER SITE TESTING OF SUBGRADE CBR.

| REV | DATE     | BY | DESCRIPTION               | CHK | APP |
|-----|----------|----|---------------------------|-----|-----|
| D   | 18/02/10 | JH | OCC COMMENTS INCORPORATED | MWH | GH  |
| A   | 05/02/08 | JH | FIRST ISSUE               | LH  | JM  |

**FOR TECHNICAL APPROVAL**



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**COUNTRYSIDE PROPERTIES**

PROJECT: SOUTH WEST BICESTER  
 BICESTER, OXFORDSHIRE

**A41 ROUNDABOUT  
 HIGHWAY CONSTRUCTION**

| SCALE @ A3           | CHECKED:                | APPROVED:    |
|----------------------|-------------------------|--------------|
| N.T.S.               | LH                      | JM           |
| DATE:                | DATE:                   | DATE:        |
| 1903-SD-028          | JH                      | January 2008 |
| PROJECT No: 11011903 | DRAWING No: 1903/SD/028 | REV: B       |