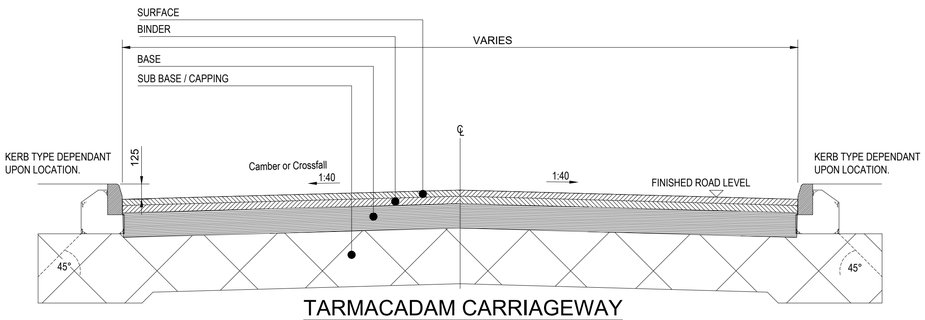



## TARMACADAM CARRIAGEWAY

SEE TABLE FOR CONSTRUCTION DETAILS

SCALE 1:25

### SPINE ROAD TARMACADAM CARRIAGEWAY

| LAYER | SPECIFICATION | THICKNESS (mm) |
|---|---|---|
| SURFACE | HIGH STONE CONTENT HOT ROLLED ASPHALT (HRA) SURFACE COURSE COMPLYING WITH BS EN 13108-4 TABLE 4. 55/10C HRA SURF, BINDER GRADE 40/60, MINIMUM PSV = 60, MAXIMUM AAV = 12 | 50mm |
| BINDER | DENSE BITUMEN MACADAM (DBM) BINDER COURSE COMPLYING WITH BS EN 13108-1. AC20 DENSE BIN, BINDER GRADE 40/60. | 60mm |
| BASE | DENSE BITUMEN MACADAM (DBM) BASE COMPLYING WITH BS EN 13108-1. AC32 DENSE BIN, BINDER GRADE 40/60. | 200mm |
| SUB BASE | TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. THICKNESS TO BE DETERMINED FROM CBR VALUE MEASURED ONSITE. ALL TEST AND DECISIONS ON SUB-BASE REQUIREMENTS ARE TO BE MADE BY THE HIGHWAY AUTHORITY. | 220mm * |
| CAPPING | CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL TO CLAUSE 613 OF SHW. REQUIREMENT AND THICKNESS DEPENDANT UPON CBR TESTING. ALL TESTS AND DECISIONS ON CAPPING REPLACEMENT ARE TO BE MADE BY THE HIGHWAY AUTHORITY. | 330mm * |

* THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 4% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER. WHERE CBR VALUES ARE LESS THAN 2.5%, GROUND STABILISATION IS TO BE UNDERTAKEN USING EITHER CEMENT OR LIME IN ACCORDANCE WITH CLAUSES 614 AND 615 OF MCDHW VOLUME 1 SERIES 600. METHOD TO BE AGREED WITH HIGHWAY AUTHORITY/ENGINEER
CBR TESTS TO BE CARRIED OUT BY THE CONTRACTOR ON THE SURFACE OF THE STABILISED MATERIAL WHEN COMPLETE AND REPORTED TO HIGHWAY AUTHORITY/ENGINEER.

ALL THICKNESSES STATED ARE FINISHED COMPACTED THICKNESSES.

FOR FROST SUSCEPTIBLE SOILS MINIMUM CONSTRUCTION DEPTH IS 450MM. ADDITIONAL CAPPING LAYER IS TO BE LAID BELOW THE SUB-BASE TO ACHIEVE THE OVERALL CONSTRUCTION DEPTH OF 450MM.

BASE, SUB-BASE AND CAPPING LAYERS SHOULD BE COMPACTED IN ACCORDANCE WITH DTP "SPECIFICATION FOR HIGHWAY WORKS".

ALL FORMATIONS TO BE PROOF ROLLED IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE FORMATION SHALL THEN BE PROTECTED FROM THE WEATHER DURING THIS PERIOD.

### TARMACADAM FOOTWAY/CYCLEWAY/DOMESTIC VEHICULAR CROSSING

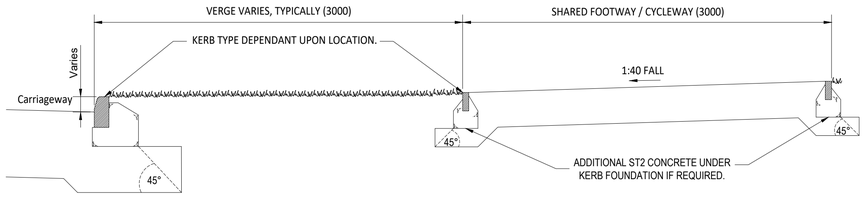
| LAYER | SPECIFICATION | THICKNESS (mm) |
|---|---|---|
| SURFACE | DENSE GRADE ASPHALT CONCRETE SURFACE COURSE COMPLYING WITH BS EN 13108. AC 6 DENSE SUR, BINDER GRADE 100/150 PEN | 25mm |
| BASE | DENSE GRADE ASPHALT CONCRETE BINDER COMPLYING WITH BS EN 13108. AC 20 DENSE BIN, BINDER GRADE 40/60 PEN | 90mm |
| SUB BASE | TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 2.5%. THICKNESS DEPENDANT UPON CBR TESTING. | 2.5%≥CBR≤4.0% - 320mm<br>CBR>4.0% - 210mm* |

* THE ABOVE DESIGN IS BASED ON TABLE 3.18c OF CD239. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

### CARRIAGEWAY SUBBASE/CAPPING REQUIREMENTS

| CBR (%) | SUBBASE ON CAPPING (mm) | | SUBBASE ONLY (mm) |
|---|---|---|---|
| | SUBBASE | CAPPING | |
| <2.5% | GROUND STABILISATION | | GROUND STABILISATION |
| 2.6-2.9 | 250 | 420 | 420 |
| 3.0-3.9 | 230 | 380 | 370 |
| 4.0-4.9 | 220 | 330 | 320 |
| 5.0-5.9 | 200 | 250 | 270 |
| 6.0-9.9 | 180 | 240 | 260 |
| 10.0-11.9 | 150 | 200 | 220 |
| 12.0-14.9 | 150 | 180 | 220 |
| ≥ 15.0 | 150 | 150 | 220 |

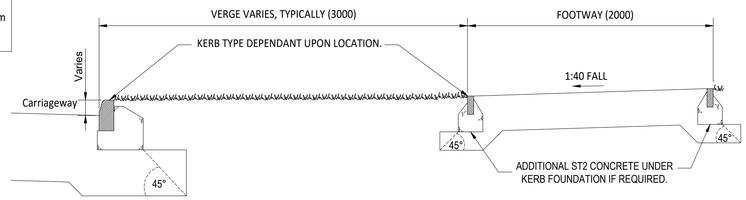
DATA IN TABLE HAS BEEN DERIVED FROM FIGURES 3.18 AND 3.20 OF CD 225 REV 1




## ADOPTABLE SHARED FOOTWAY/CYCLEWAY CONSTRUCTION

SEE TABLE FOR CONSTRUCTION DETAILS

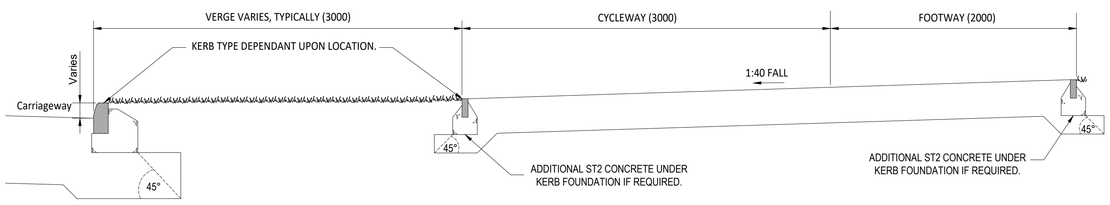
SCALE 1:25




## ADOPTABLE FOOTWAY CONSTRUCTION

SEE TABLE FOR CONSTRUCTION DETAILS

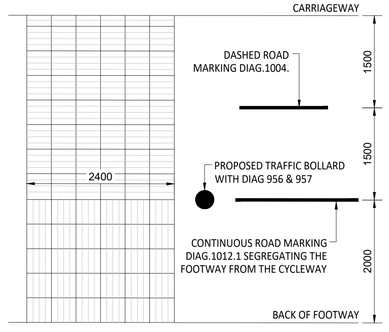
SCALE 1:25




## ADOPTABLE SEGREGATED FOOTWAY/CYCLEWAY CONSTRUCTION

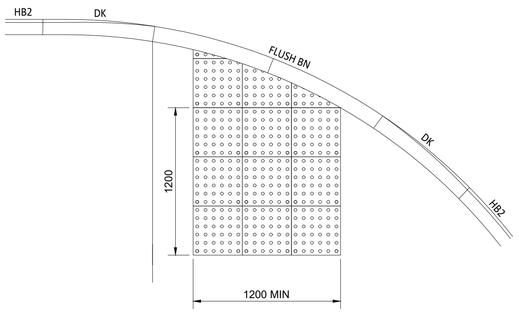
SEE TABLE FOR CONSTRUCTION DETAILS

SCALE 1:25




## END OF SEGREGATED SHARED FOOTWAY / CYCLEWAY TACTILE

SCALE 1:50

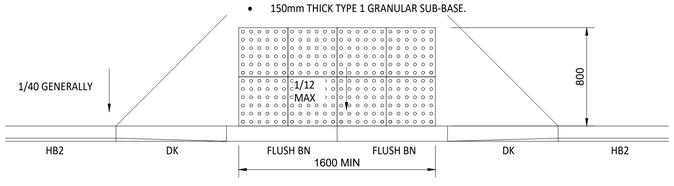



## TACTILE PAVING PEDESTRIAN CROSSING AT JUNCTION

SCALE 1:25

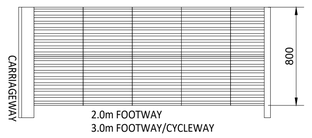
400mm SQ x 50mm THICK BUFF COLOURED BLISTER FLAGS LAID ON:

- 50mm OF 1:2 CEMENT/SAND BED on
- 150mm THICK "LEAN MIX" CEMENT BOUND MATERIAL on
- 150mm THICK TYPE 1 GRANULAR SUB-BASE.




## TACTILE PAVING PEDESTRIAN CROSSING POINT AWAY FROM JUNCTIONS

SCALE 1:25




## CORDUROY PAVING

400mm SQ x 50mm THICK BUFF COLOURED BLISTER OR CORDUROY FLAGS LAID ON:

- 50mm OF 1:2 CEMENT/SAND BED on
- 150mm THICK "LEAN MIX" CEMENT BOUND MATERIAL on
- 150mm THICK TYPE 1 GRANULAR SUB-BASE.

SCALE 1:25



GENERAL NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.

| Rev | Date | Description | Drawn | Checked |
|---|---|---|---|---|
| A | 06.25 | FIRST ISSUE | RG | CS |

Abley Letchford

www.ableyletchford.co.uk

Client: UNIVERSITY OF READING

Project: LODDON GARDEN VILLAGE

Title: HIGHWAY CONTRUCTION DETAILS

Status:

| Scale | Date | Drawn | Checked |
|---|---|---|---|
| AS SHOWN @ A1 | JUN 2025 | RG | CS |

Drawing No: A392-OPA-0720

Revision: A