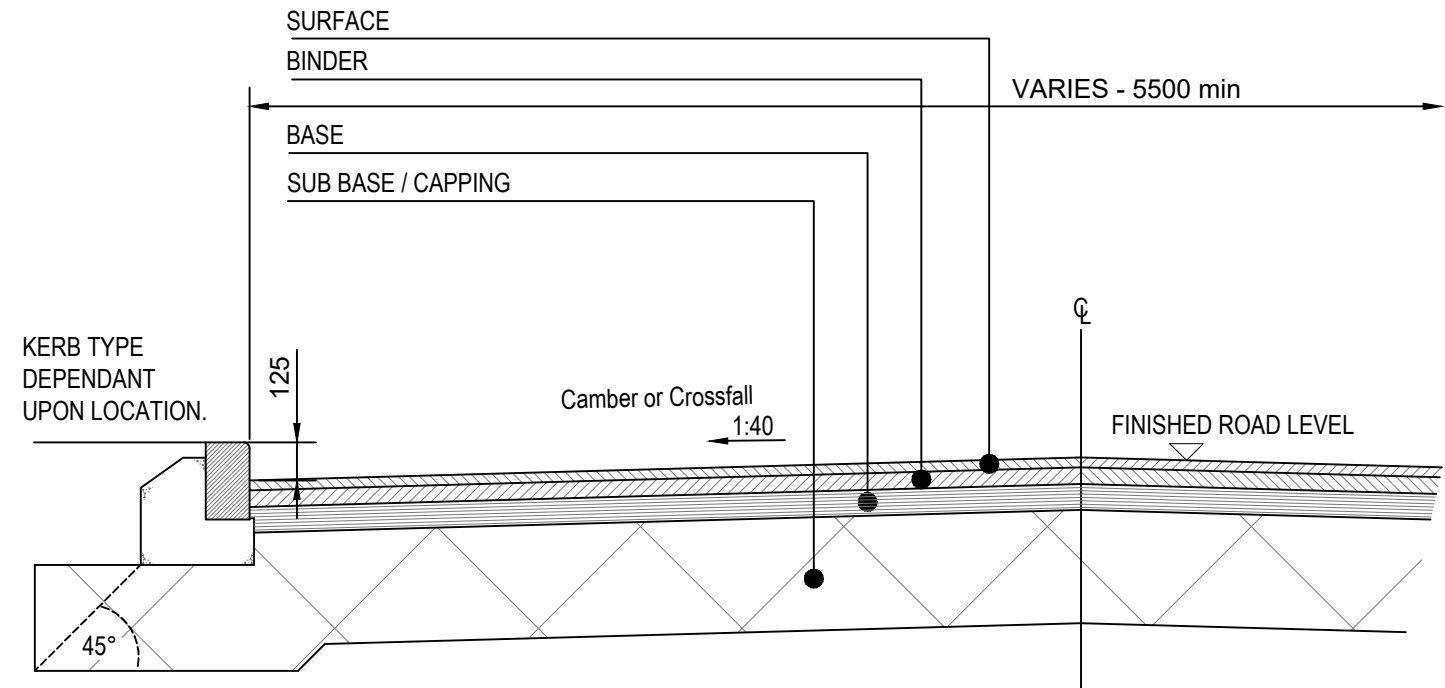


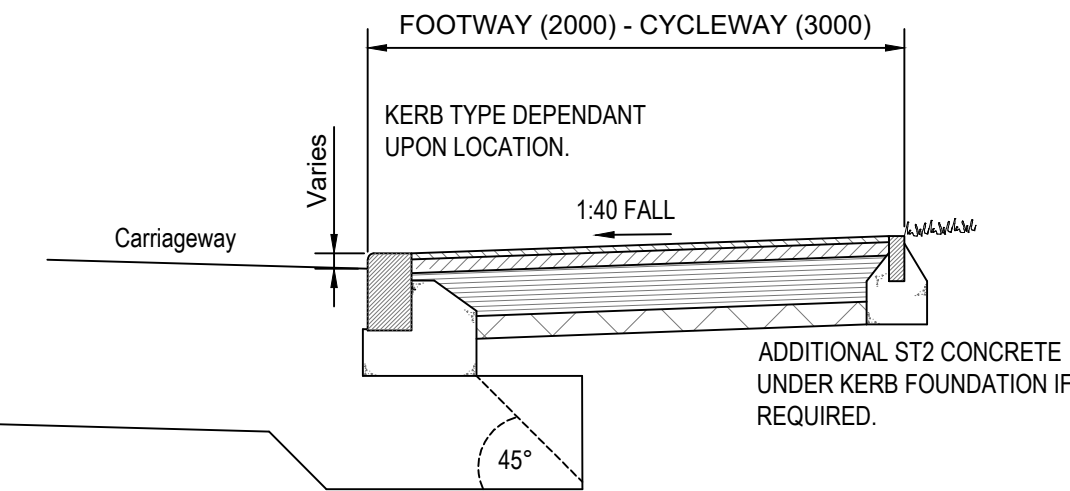


TARMACADAM/BLOCK PAVED CARRIAGEWAY
SEE TABLES FOR CONSTRUCTION DETAILS
SCALE 1:25

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 = 65, MAXIMUM AAV = 12.	40mm
BINDER	DENSE BITUMEN MACADAM (DBM) BINDER COURSE COMPLYING WITH BS EN 13108-1. AC20 DENSE BIN. BINDER GRADE 40/60. SEALING GRIT FOR BINDER COURSE, IF REQUIRED. SHALL BE BITUMEN PRE-COATED GRIT, NOT EXCEEDING 3mm NOM. SIZE. WHERE USED FOR CONSTRUCTION TRAFFIC	60mm
BASE	DENSE BITUMEN MACADAM (DBM) BASE COMPLYING WITH BS EN 13108-1. AC32 DENSE BIN. BINDER GRADE 40/60.	130mm
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.	240mm
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.	210mm *

* THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.



TARMACADAM FOOTWAY/CYCLEWAY
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25

TARMACADAM FOOTWAY CONSTRUCTION

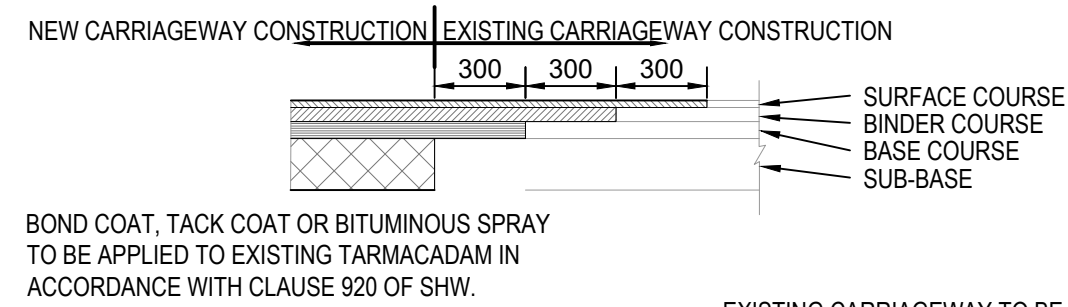
LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	DENSE GRADE ASPHALT CONCRETE SURFACE COURSE COMPLYING WITH BS EN 13108. AC 6 DENSE SUR, BINDER GRADE 100/150 PEN	25mm
BINDER	DENSE GRADE ASPHALT CONCRETE BINDER COMPLYING WITH BS EN 13108. AC 20 DENSE BIN, BINDER GRADE 40/60 PEN	75mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 20%. THICKNESS DEPENDANT UPON CBR TESTING.	CBR <2% - 225mm CBR >2.5% - 150mm

ALL THICKNESSES STATED ARE FINISHED COMPACTED THICKNESSES.

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

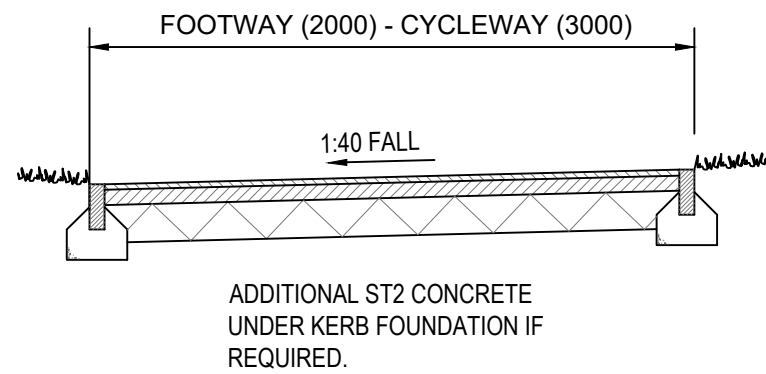
BASE, SUB-BASE AND CAPPING LAYERS SHOULD BE COMPACTED IN ACCORDANCE WITH DTP "SPECIFICATION FOR HIGHWAY WORKS".

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



TIE IN TO EXISTING CARRIAGEWAY
SCALE 1:25

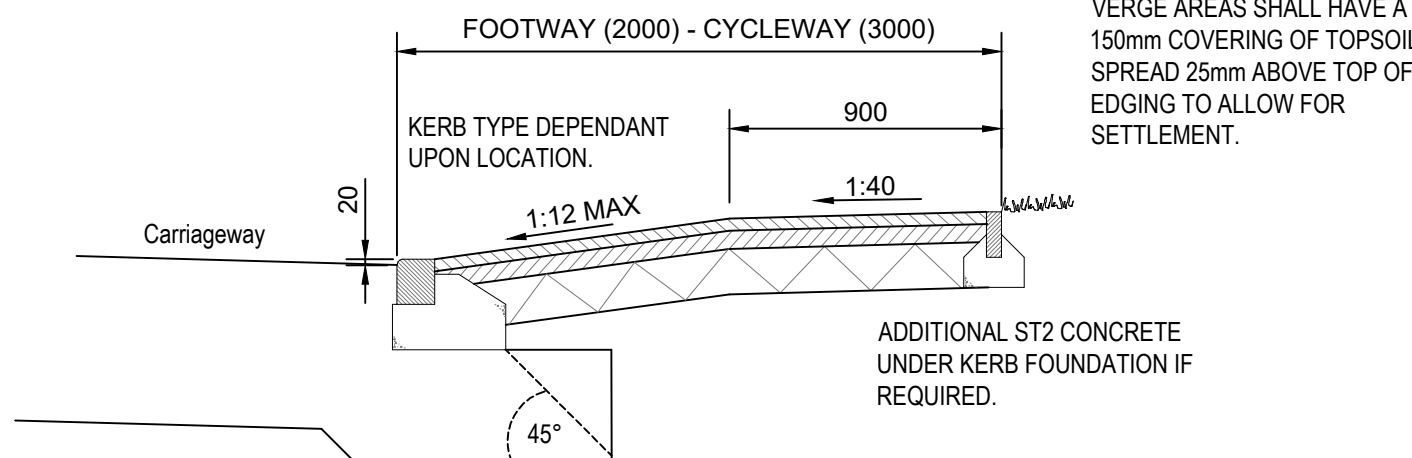
EXISTING CARRIAGEWAY TO BE COLD MILLED IN ACCORDANCE WITH CLAUSE 709 OF SHW.



FOOTWAY/CYCLEWAY REMOTE FROM CARRIAGEWAY
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25

REMOTE FLEXIBLE FOOTWAY / CYCLEWAY CONSTRUCTION

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	20mm
BINDER	DENSE GRADE ASPHALT CONCRETE BINDER COMPLYING WITH BS EN 13108. AC 20 DENSE BIN, BINDER GRADE 40/60 PEN	55mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 20%. THICKNESS DEPENDANT UPON CBR TESTING.	CBR <2% - 225mm CBR >2.5% - 150mm



VEHICULAR CROSSINGS CONSTRUCTION
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25

VERGE AREAS SHALL HAVE A 150mm COVERING OF TOPSOIL SPREAD 25mm ABOVE TOP OF EDGING TO ALLOW FOR SETTLEMENT.

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
BINDER	DENSE GRADE ASPHALT CONCRETE BINDER TO CLAUSE 906 COMPLYING WITH BS EN 13108. AC 20 DENSE BIN, BINDER GRADE 40/60 PEN.	75mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 20%. THICKNESS DEPENDANT UPON CBR TESTING.	CBR <2% - 225mm CBR >2.5% - 150mm

BLOCK PAVED CARRIAGEWAY

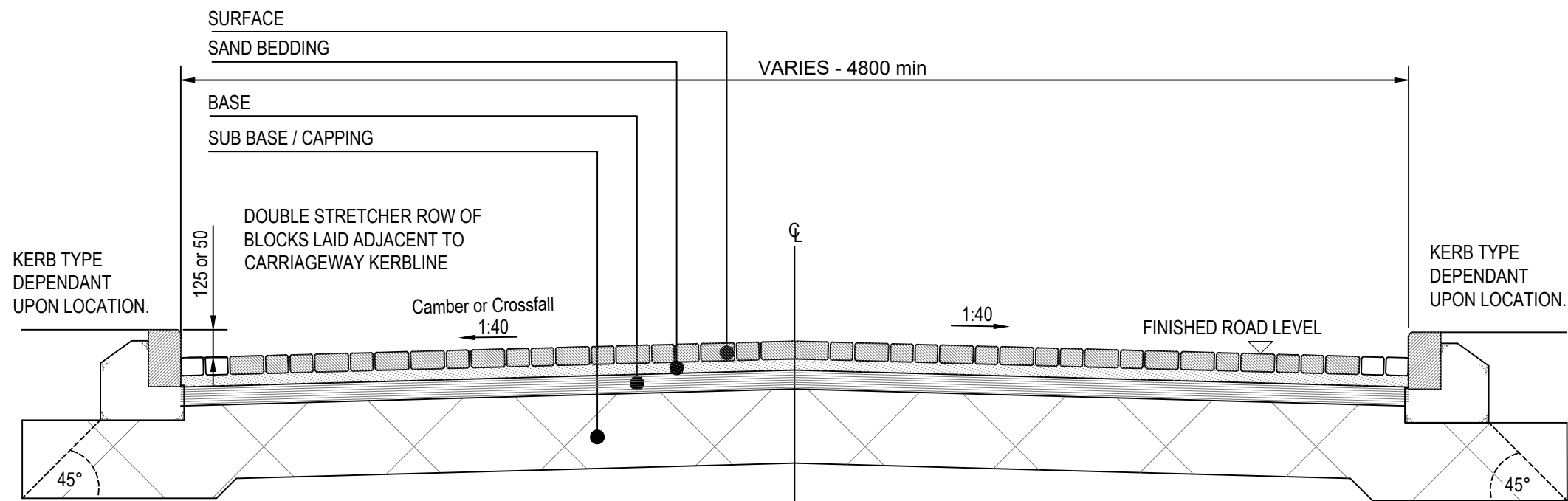
LAYER	SPECIFICATION	THICKNESS (mm)
BLOCK PAVING +	MARSHALL'S KEYBLOC (200x100) CONCRETE PAVING (OR SIMILAR APPROVED) LAID IN 45DEG HERRINGBONE PATTERN IN ACCORDANCE WITH BS 7533-3 AND WBC DESIGN GUIDE, COLOUR - VARIES.	80mm
SAND COURSE	SAND BEDDING COURSE LAID IN ACCORDANCE WITH BS 7533-3. BEDDING COURSE TO BE TREATED WITH APPROVED ACTIVE PRE AND POST EMERGENCE RESIDUAL WEED KILLER.	30mm **
BASE	DENSE ASPHALT CONCRETE (AC) BASE COMPLYING WITH BS EN 13108. AC20 DENSE BASE, GRADE 100/150. (25mmØ HOLES FILLED WITH CLEAN STONE, AND COVERED WITH GEOTEXTILE TO PREVENT FINES OF SAND ENTERING THE HOLES, TO BE PUNCTURED AT 1 HOLE PER 1 SQ.M.)	130mm ***
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803. ALL TEST AND DECISIONS ON SUB-BASE REQUIREMENTS ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	240mm *
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 TO BE MADE BY THE HIGHWAY AUTHORITY.	210mm *

* THE DESIGN APPLIES WHERE THE FORMATION CBR IS 5%. INSITU CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

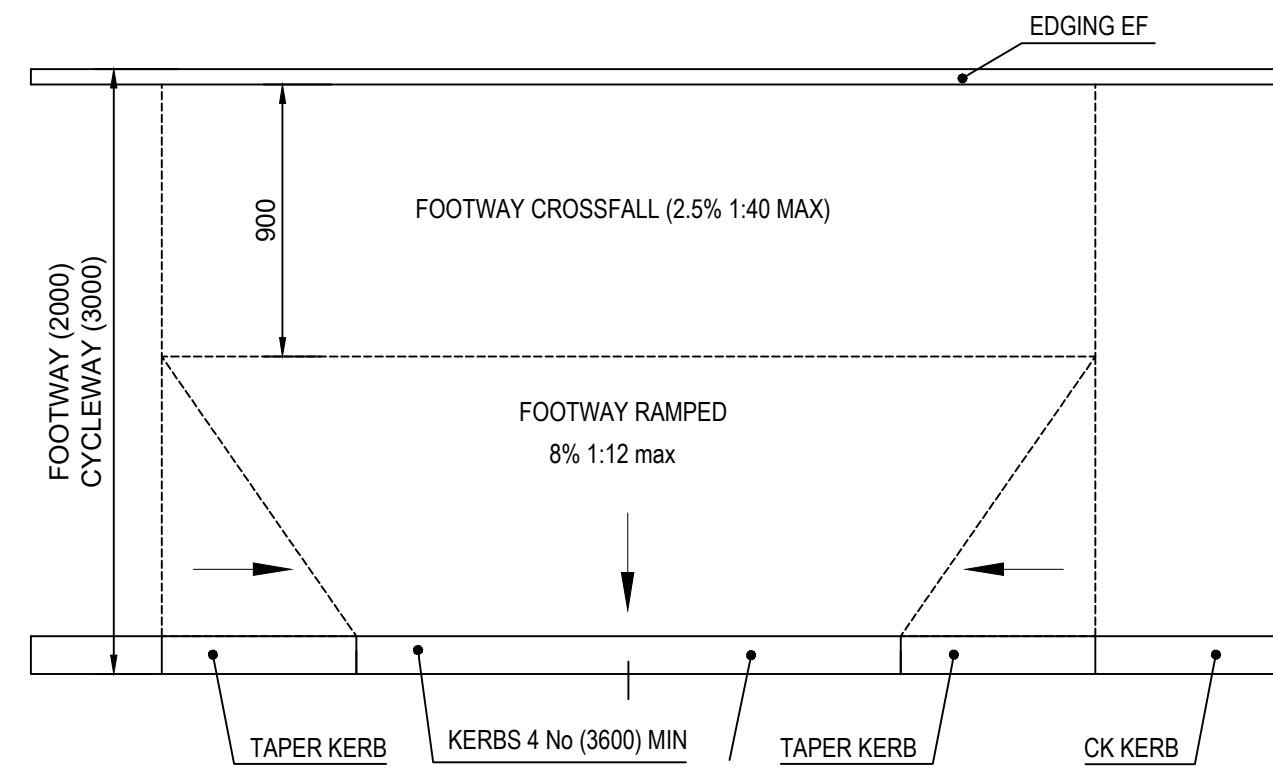
** FINISHED COMPACTED THICKNESS.

*** A 130mm OF AC BASE IS REQUIRED WHEN THE SUB-BASE IS TO CARRY CONSTRUCTION TRAFFIC IN WHICH CASE THE DEPTH OF THE SUB-BASE MAY BE REDUCED BY 75mm.

+ ALL BLOCK PAVIOUR JOINTS TO BE SEALED WITH PRE-POLYMER URETHANE.



BLOCK PAVED CARRIAGEWAY
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25



VEHICULAR CROSSINGS
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE NTS

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GENERAL NOTES:

- This drawing is to be read in conjunction with and checked against all other drawings, Engineering details, Specification and any structural, Geotechnical or other specialist document provided.
- Any anomaly or contradiction between any of the above is to be reported to the Engineer.
- WBC Highway Inspector to be present during inspections/CBR testing.
- Gratings and frames shall be to BS EN124 1994. Ref. Class D400 Trafficked areas. Ref. Class C250 footways only. Large gratings may only be used by the approval of the overseeing organisation. Dished gratings permissible in footways only.
- Dowel bars may be required with standard kerbs in circumstances where the kerbs are vulnerable
- Blocks shall normally be bedded on 50 sharp sand complying with BS 882 grading C or M.
- In areas where the blocks may be trafficked, or narrow strips of paving are used as a feature, the sand must be substituted by 30 mortar to designation (ii) or (iii) laid on CMBS concrete.
- Flags shall be bedded on 30 mortar to designation (ii) or (iii).
- The laying arrangement shown of tactile slabs are indicative only and shall be in accordance with Guidance on the use of Tactile Paving Surfacing DETR. When the dropped kerb is in direct line of travel the tactile surface shall be laid to a depth of 1200mm
- Crossing kerbs shall be flush with the carriageway where tactile flags are used.

C	02.26	Title box updated with current logo	RP	DS
B	07.24	Amended in line with Bellway Comments	AS	DS
A	06.24	First Issue	LC	DS
Rev	Date	Description	Drawn	Checked



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Client

BELLWAY HOMES

Project
LAND NORTH OF ARBORFIELD ROAD, SHINFIELD

Title
FULL APPLICATION HIGHWAY CONSTRUCTION DETAILS SHEET 1

Status

Scale	Date	Drawn	Checked
AS SHN @ A1	JUNE 2024	LC	DS
Drawing No.	Revision		
HD008-FA-651	C		