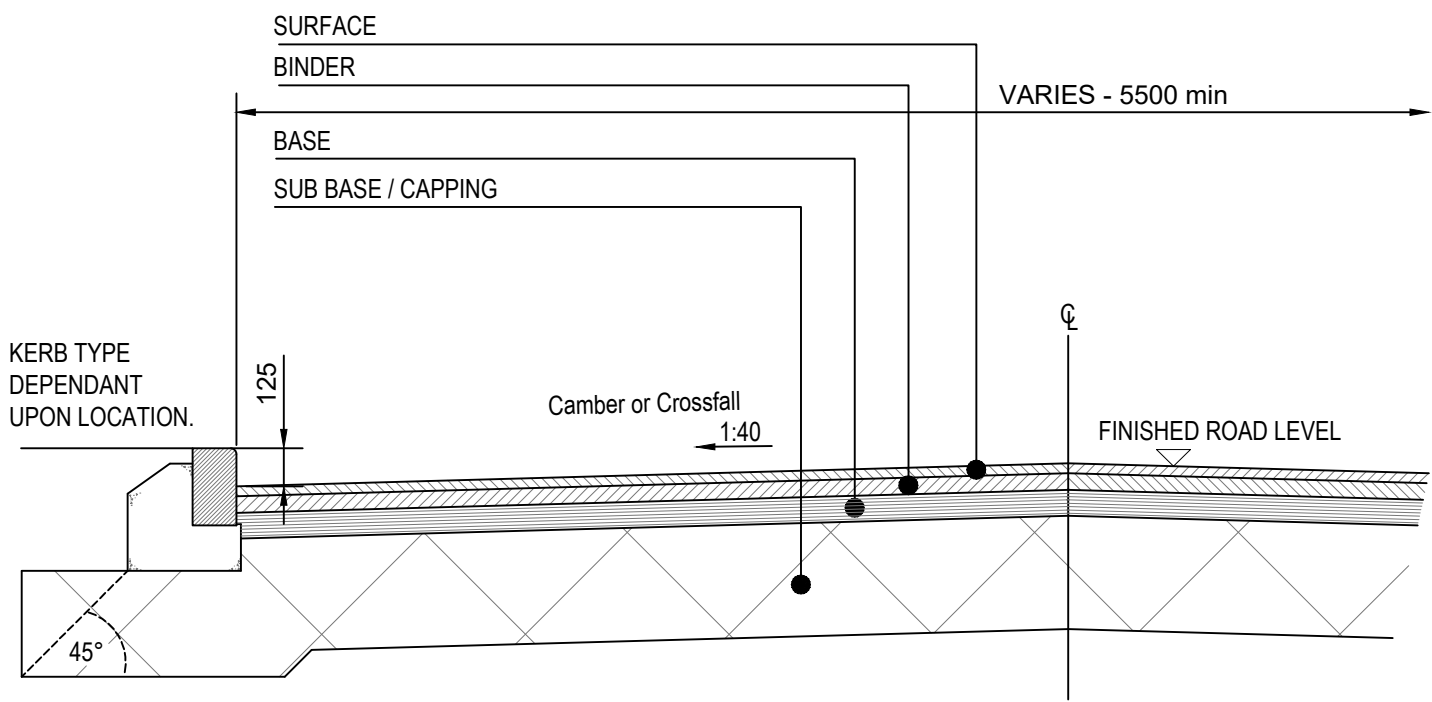


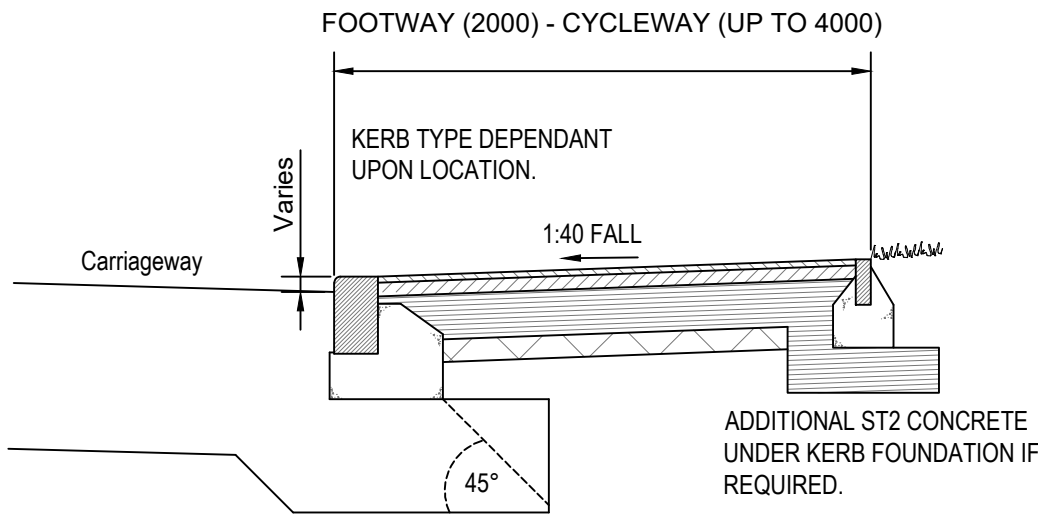


TARMACADAM CARRIAGEWAY
SEE TABLES FOR CONSTRUCTION DETAILS
SPEC 1
SCALE 1:25

TARMACADAM CARRIAGEWAY - SPEC 1

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.	45mm
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	65mm
BASE	DENSE BITUMEN MACADAM (DBM) BASE COMPLYING WITH BS EN 13108-1. AC32 DENSE BIN, BINDER GRADE 40/60.	210mm
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.

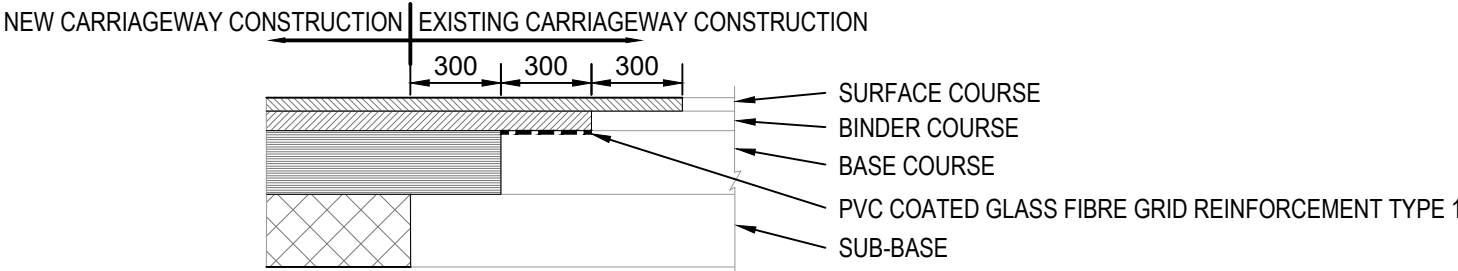


TARMACADAM FOOTWAY/CYCLEWAY
SEE TABLE FOR CONSTRUCTION DETAILS
SPEC 2
SCALE 1:25

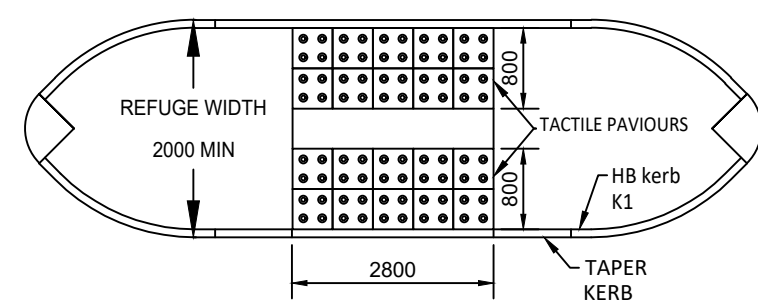
TARMACADAM FOOTWAY/ CYCLEWAY CONSTRUCTION - SPEC 2

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.	320mm *

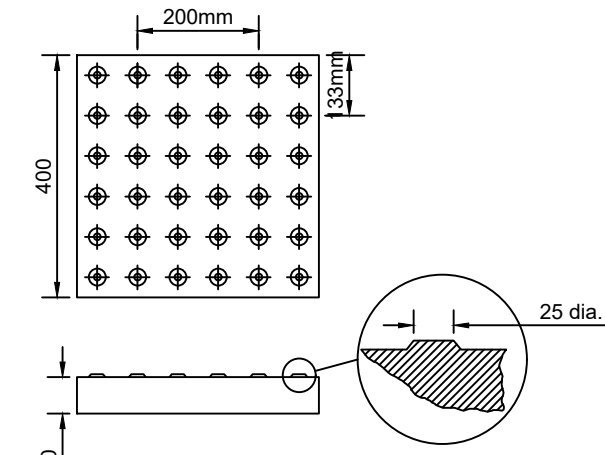
* THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.



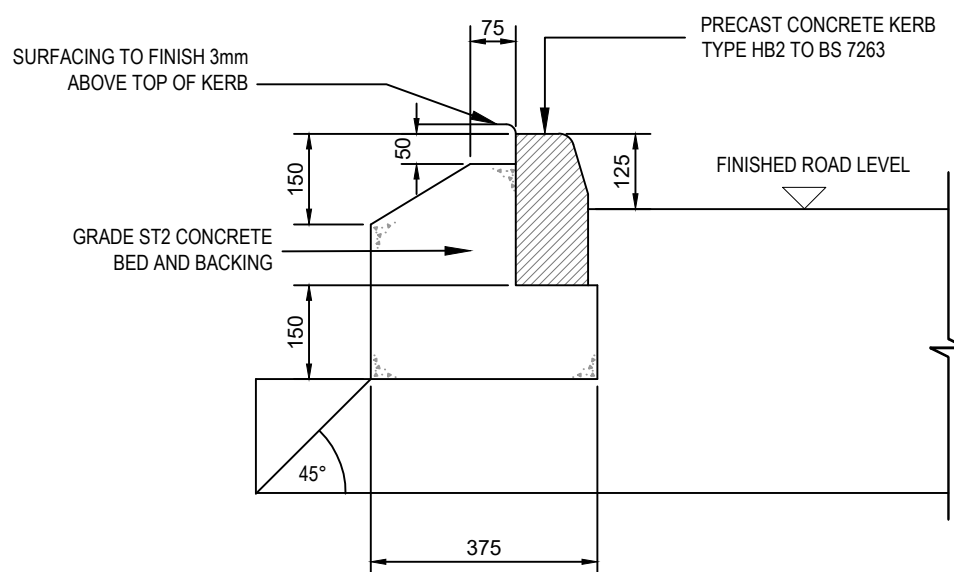
TIE IN TO EXISTING CARRIAGEWAY
SCALE 1:25



PLAN PEDESTRIAN REFUGE
TACTILE PAVING ARRANGEMENT
NTS



TACTILE PAVIOUR
NTS



STANDARD KERB TYPE HB2
K1
NTS

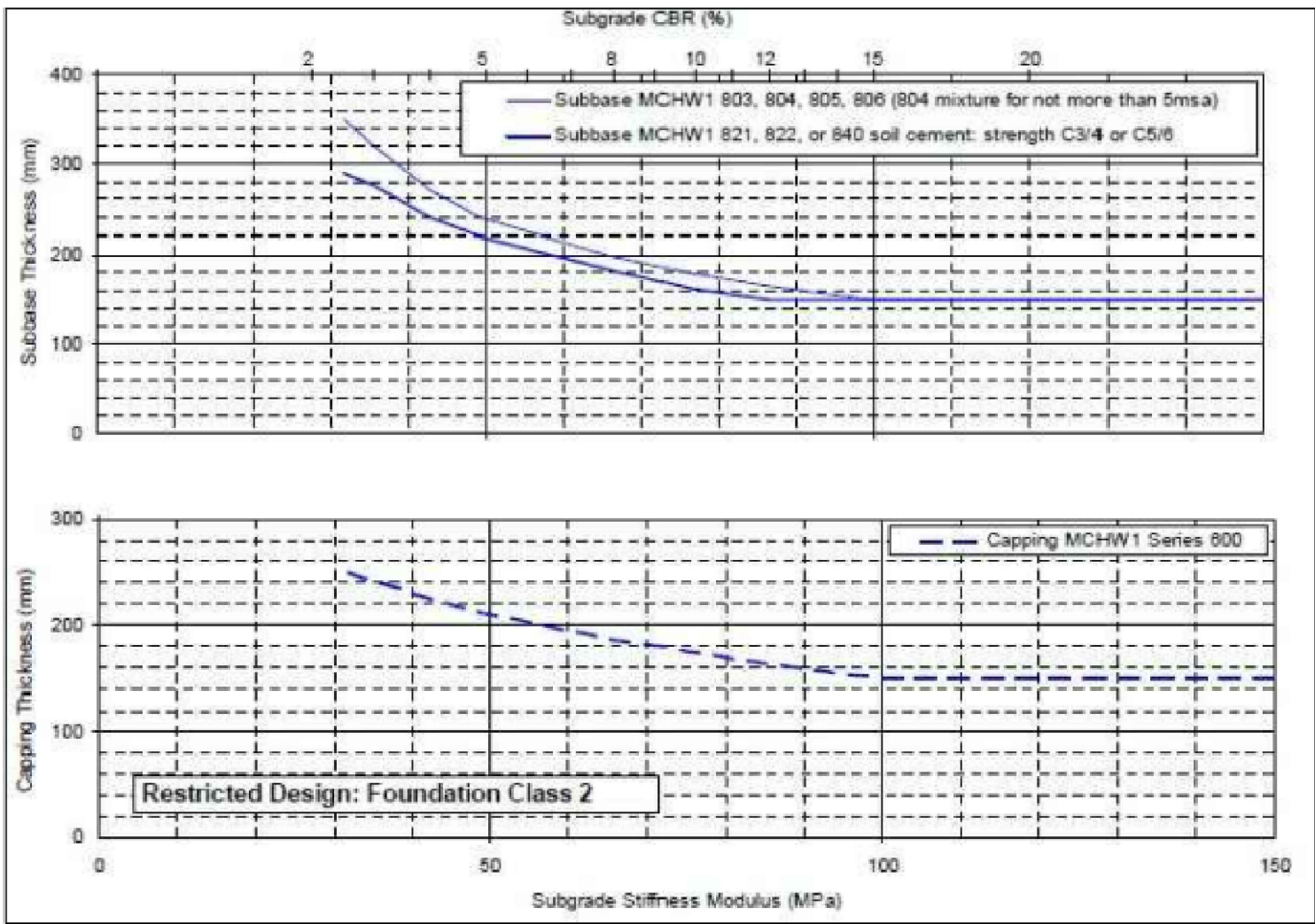
PUMPING STATION GRANULAR ACCESS TRACK
(WITH FARM VEHICLES UP TO 20T)
SPEC 3

All formations will require inspection by Engineer and formation to be proof rolled and soft spots removed. Soft spots will be backfilled with 6F material.

PUMPING STATION GRANULAR ACCESS TRACK

LAYER	SPECIFICATION	THICKNESS (mm)
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.	150mm
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.	450mm

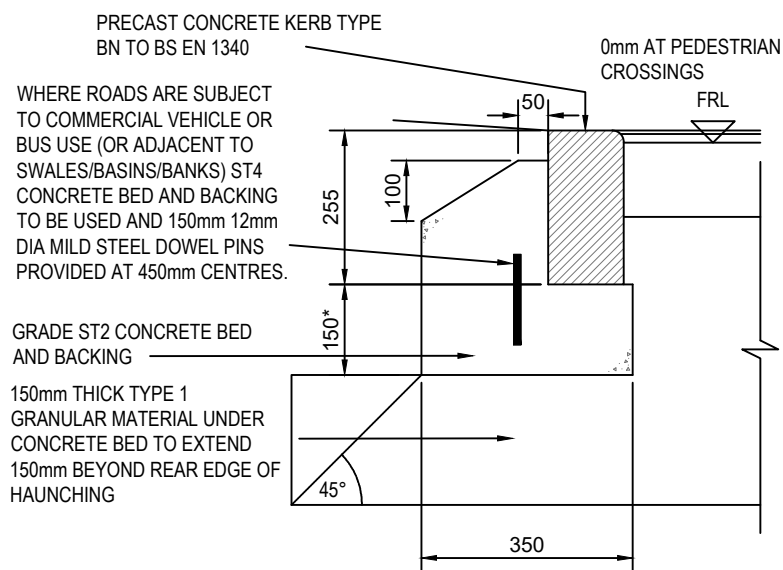
CARRIAGEWAY SUB-BASE OR CAPPING ONLY



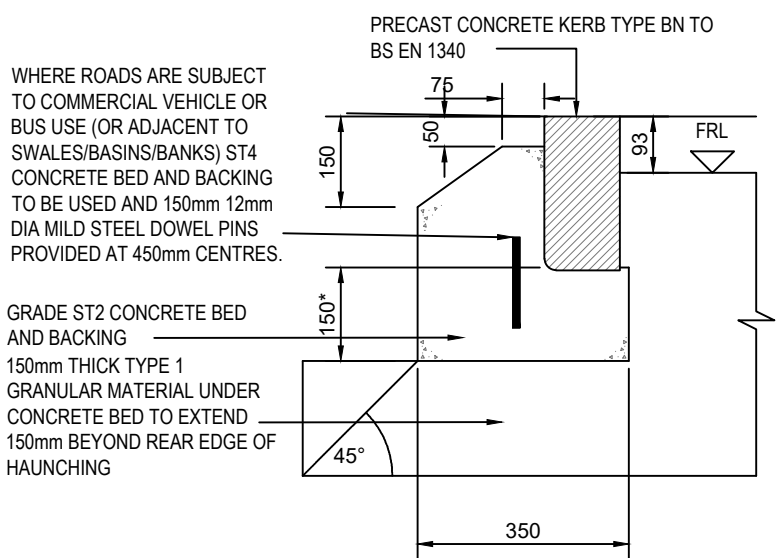
CARRIAGEWAY SUB-BASE ON CAPPING

CBR (%)	Subbase on Capping (mm)		Subbase Only (mm)
	Subbase	Capping	
≤2.5	Ground Stabilisation	Ground Stabilisation	
2.6 – 2.9	350	250	450
3.0 – 3.9	320	240	400
4.0 – 4.9	270	220	360
5.0 – 5.9	240	210	320
6.0 – 7.9	210	200	300
8.0 – 9.9	200	180	270
10 – 11.9	180	180	250
12.0 – 14.9	170	160	230
15.0≥	150	150	200

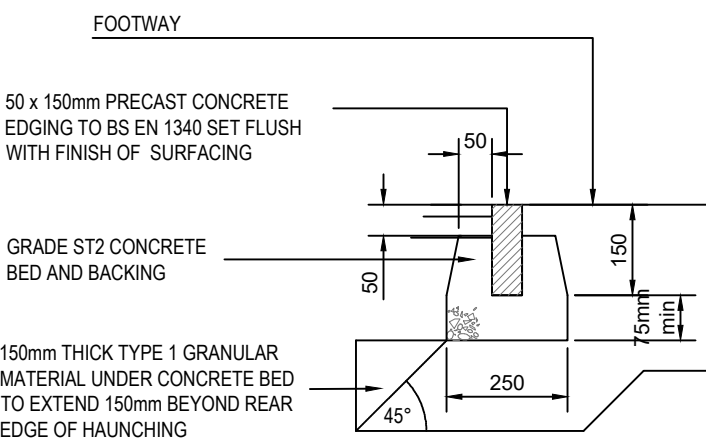
(figures used in the table above have been extracted from figures 3.1 and 3.2 of IAN 73/06 Rev 1)



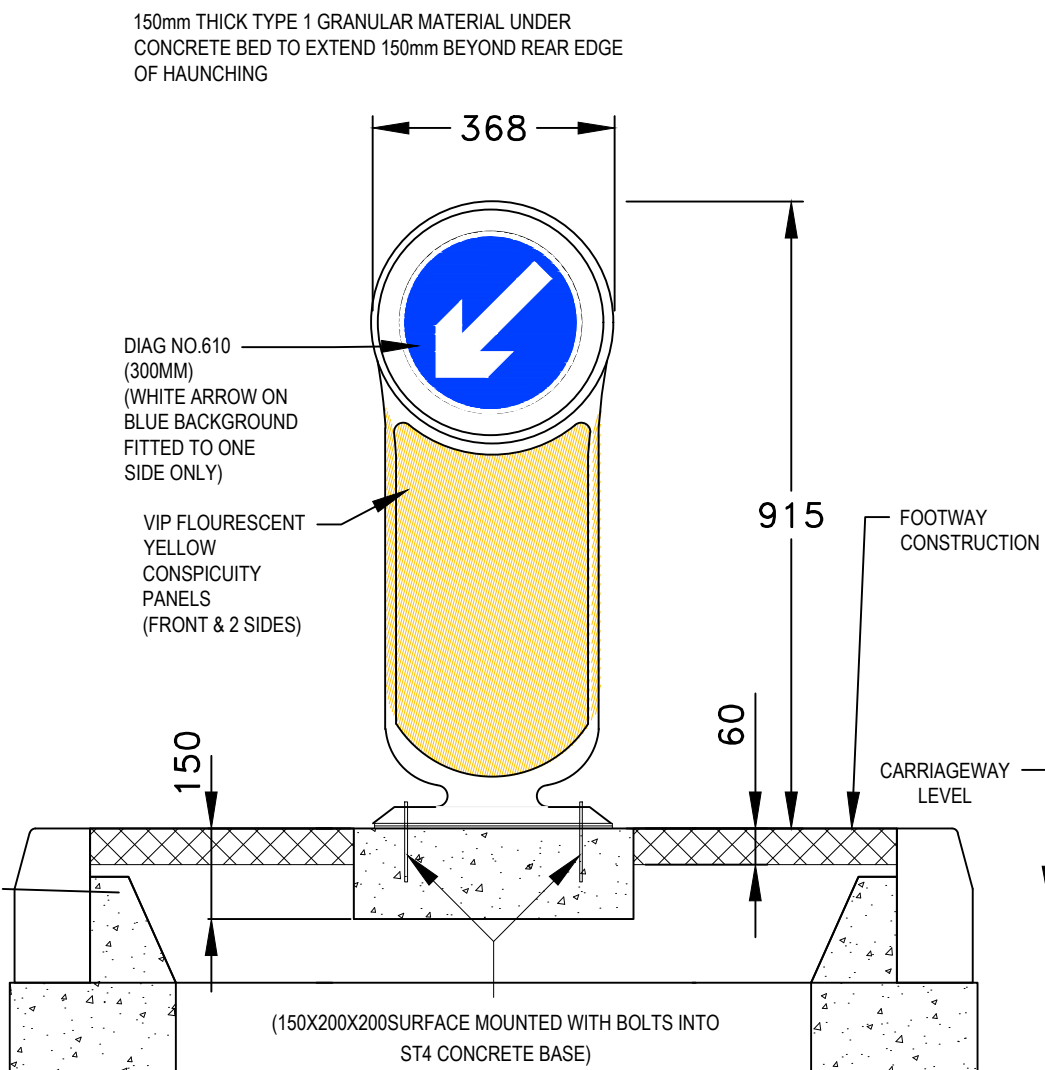
BULLNOSE KERB TYPE BN
K2
NTS



INVERTED KERB TYPE BN
K4
SCALE 1:10

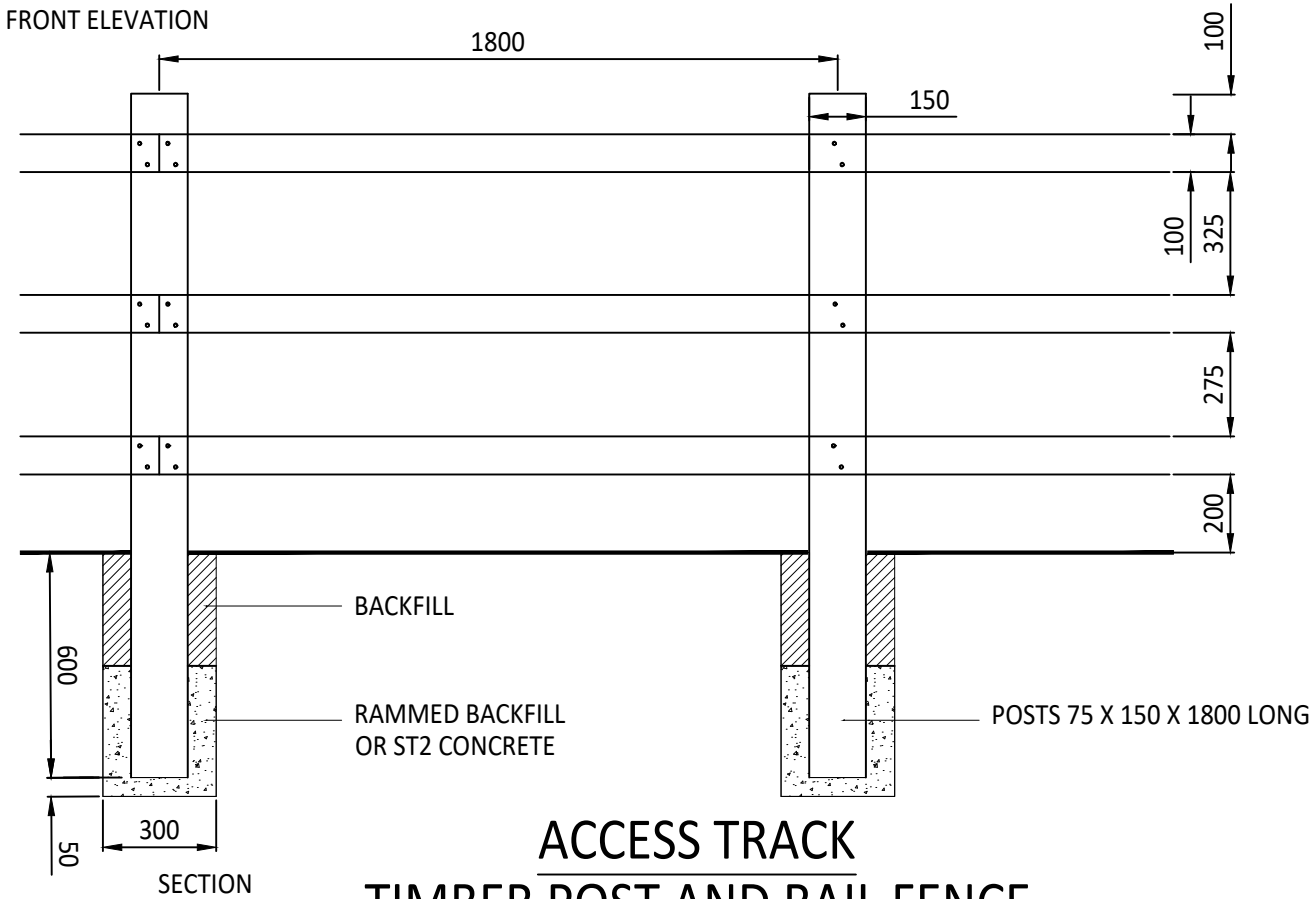


PCC EDGING TYPE EF
150mm DEEP
K5
NTS



NON-ILLUMINATED PUDSEY DIAMOND BOLLARD

REFER TO MANUFACTURER SPECIFICATION FOR DETAILS
SCALE 1:10



ACCESS TRACK
TIMBER POST AND RAIL FENCE
SCALE: 1:20

TIMBER POST AND RAIL FENCE NOTES:

- BS 1722 part 7 'Specification for Wooden Post and Rail Fence' applies unless otherwise stated.
- Fence comprises of sawn square section vertical posts (150x75mm, 1.8m long), with three horizontal sawn square section rails (100x38mm, 3.6m long), nailed to the posts.
- Posts may be supported by rammed backfill or ST2 concrete, subject to ground conditions and engineer's recommendations. post every 1.8m.
- All fixings to be hot dip galvanised mild steel. Rails to be screwed to posts with 100mm galvanised screw (2 screws at each attachment point).
- All timber to be sawn treated softwood (for a lifespan of 25+ years).
- Posts to be weathered.

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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 E600/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
- Flags shall be bedded on 30mm 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.

Rev	Date	Description	Drawn	Checked
A	02/26	FOR REVIEW	AS	CS



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Client

UNIVERSITY OF READING

Project
THAMES VALLEY SCIENCE PARK - LODDON GARDEN VILLAGE LINK ROAD

Title
HIGHWAY CONSTRUCTION DETAILS

Status

Scale
AS SHOWN @ A1

Date
FEB 2026

Drawn
AS

Checked
CS

Drawing No

HD169-TVSP-0711

Revision
A