

revision details

A	07/02/22	ISSUED FOR PLANNING
B	11/09/23	ISSUED FOR PART 8 APPLICATION

ROAD PAVEMENT CONSTRUCTION

35MM OF 10MM AC SURFACE COURSE CLOSE SURF 70/100 DES,
 ON 50MM OF 20MM DBM BINDER COURSE 40/60 DES,
 ON 70MM OF 32MM DBM ROADBASE 40/60 DES,
 ON MIN. 225MM CLAUSE 808 STONE SUB-BASE (CBR=30%, SEE TABLE 1 LAYER THICKNESS),
 ON MIN. 150MM CAPPING LAYER MATERIAL 6F2 TO MAKE UP LEVELS IF REQUIRED (CBR=15%, SEE TABLE 1 FOR LAYER THICKNESS).
 WEARING COURSE, BINDER COURSE AND ROADBASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH
 BS EN 13108-1 AND BS594987:2007, MATERIALS TO BE IN ACCORDANCE WITH SR28.

NOTE:

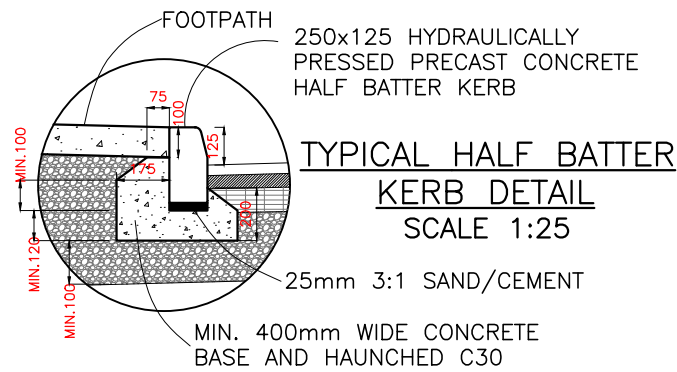
MINIMUM LONGITUDINAL GRADIENT TO BE 1:200.
 MAXIMUM LONGITUDINAL GRADIENT TO BE 1:20.

INSITU CONCRETE FOOTPATH CONSTRUCTION

100MM INSITU CONCRETE ON MIN. 100MM CLAUSE 808 STONE SUB-BASE ACHIEVING GRADIENTS AND FALLS
 ON MIN. 150MM CAPPING LAYER MATERIAL 6F2 TO BE IN ACCORDANCE WITH NRA SPECIFICATION TO MAKE UP LEVELS.
 INSITU CONCRETE IS TO BE C32/40 AIR ENTRAINED (EXPOSURE CLASS XF4) IN ACCORDANCE WITH IS EN 206, JOINTS TO BE FORMED AT 3M CENTRES.

KERBS

AT ROADWAY EDGES, KERBS SHOULD SHOW BETWEEN 100MM AND 150MM ABOVE THE CHANNEL, EXCEPT AT VEHICULAR ACCESSES, WHERE THEY SHOULD BE REDUCED TO 25MM OVER THE CHANNEL AND AT WHEELCHAIR AND PRAM ACCESSES WHERE AN UPSTAND OF MAX. 6MM SHOULD BE PROVIDED. THE FOOTPATH SLOPE AT SUCH DISHED KERBS SHOULD NOT EXCEED 1IN12.



250x125 HYDRAULICALLY PRESSED PRECAST CONCRETE HALF BATTER KERB

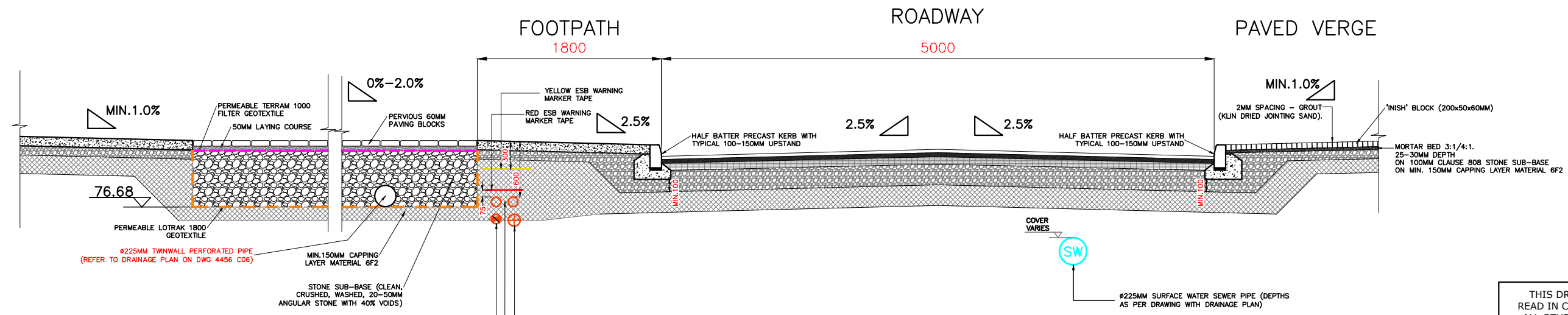
TYPICAL HALF BATTER KERB DETAIL SCALE 1:25

25mm 3:1 SAND/CEMENT

MIN. 400mm WIDE CONCRETE BASE AND HAUNCHED C30

NOTE

1. ALL FOUL DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS REFER TO SPECIFICATION FOR DETAILS.
2. ALL WATERMAIN TO BE INSTALLED IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS REFER TO SPECIFICATION FOR DETAILS.
3. SURFACE WATER TO BE INSTALLED WITH RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS HOUSING AREAS.



TYPICAL ROAD CROSS SECTION UTILITIES AND ROAD PAVEMENT DETAILS SCALE 1:50

DEPTH OF SUB-BASE & CAPPING LAYER:

THE DEPTH OF THE SUB-BASE AND CAPPING LAYERS WILL VARY WITH THE SUBGRADE STRENGTH, AS INDICATED BY THE CBR TEST RESULTS. THE THICKNESS OF THE SUB-BASE LAYER SHOULD BE MIN. 150mm FOR ALL FORMS OF ROADWAY CONSTRUCTION. THE THICKNESS OF THE CAPPING LAYER WILL VARY WITH THE CBR VALUE, AS INDICATED IN TABLE 1 BELOW. IF THE CBR VALUE OF THE SUBGRADE EXCEEDS 15%, NO CAPPING LAYER IS REQUIRED. SEE FIGURE 4.1 IN PART 2A, HD25-26 OF NRA DESIGN MANUAL FOR ROADS AND BRIDGES.

LOWEST SUBGRADE CBR (%)	MINIMUM CAPPING LAYER THICKNESS (MM)
*LESS THAN 2	*(SEE NOTE)
2->5	450->250
5->15	250->150
MORE THAN 15	NO CAPPING LAYER REQUIRED

* FOR SUBGRADES WITH A CBR OF LESS THAN 2%, A GEOTEXTILE SEPARATOR (E.G. TERRAM 1000) SHOULD BE USED AND SPECIALIST ADVICE SOUGHT REGARDING MINIMUM THICKNESS.

NOTES:

1. CBR TESTS TO BE CARRIED OUT ON SUBGRADE TO CONFIRM ITS STRENGTH.
2. CBR TESTS TO BE CARRIED OUT ON TOP OF CAPPING TO CONFIRM A CBR VALUE OF 15% PRIOR TO INSTALLING THE SUBBASE LAYER.
3. CBR TESTS TO BE CARRIED OUT ON TOP OF SUBBASE TO CONFIRM A CBR VALUE OF 30% PRIOR TO INSTALLING THE ROADBASE LAYER.
4. ALL SPECIFIED AGGREGATE MATERIAL TO BE FROM PYRITE "FREE" QUARRY.

This document is the property of Duffy Chartered Engineers IRL. The design information contained herein is strictly confidential. This document is not to be used, reproduced, disclosed or circulated, in whole or in part, without the prior 'Written Permission' in each instance of Duffy Chartered Engineers IRL.
 Duffy Chartered Engineers IRL Registered Office: Jocelyn House, Zoology Rd, Dundalk, Co. Louth, Ireland. Registered in Ireland No. 074901. Directors: G.J. Barron, T. McGuinness. VAT No. IE 340160225H

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DCE DRAWINGS

DCE IRL
 CIVIL • STRUCTURAL • TRAFFIC
 Second Floor, Avenue Road Centre
 Dundalk, Co. Louth, A91 FT92 Ireland
 Tel. : +353 42 935 1600
 Fax : +353 42 935 1601
 E-mail : info@dce.ie
 Web : www.dce.ie

Client:
MEATH COUNTY COUNCIL
 comhairle chontae na mí
 meath county council
 Job Title:
ENFIELD - TOWN CENTRE PARKING

Drawing Title:
TYPICAL UTILITIES AND ROAD CONSTRUCTION DETAILS

Scale: 1:50@A3 Dwg no: C07
 Drawn by: KK Job no.: 4456
 Checked by: GJB Rev. no.: B
 File no.: 4456 C07 Date: 07/02/22