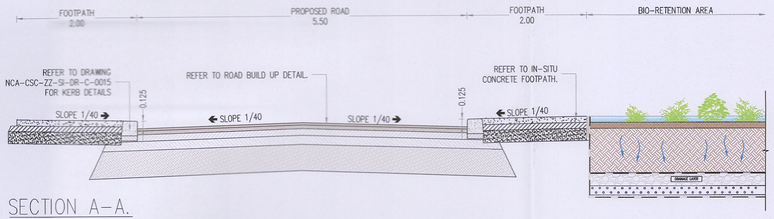
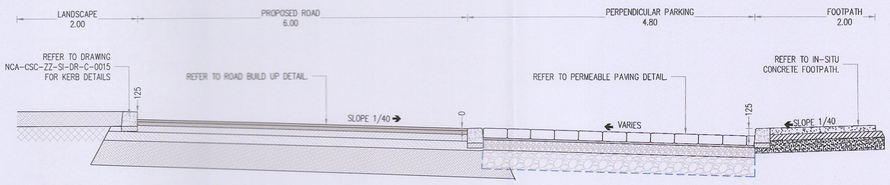


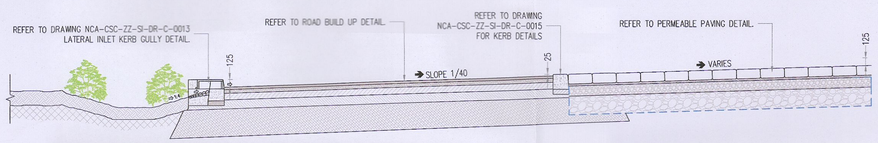
SECTION A-A.

SCALE= 1:50



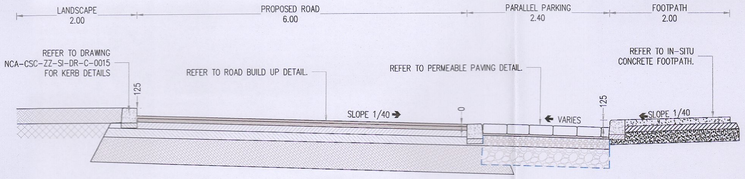
SECTION B-B.

SCALE= 1:50



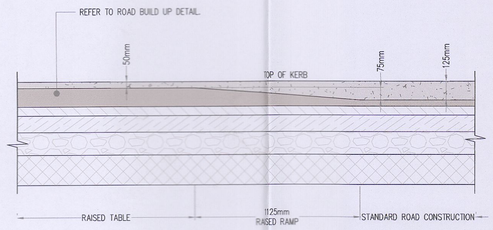
SECTION C-C

SCALE= 1:50



SECTION D-D.

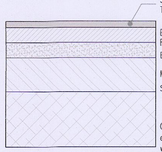
SCALE= 1:50



TYPICAL RAISED RAMP DETAIL

SCALE 1:20

RESIDENTIAL : CUL DE SAC- HOME ZONE



SURFACE COURSE – 40mm MIN THICKNESS OF SMA SURF (IS EN 13108-5) 10mm CHIP SIZE TO TII SPECIFICATION FOR ROADWORKS.

BINDER COURSE – 100mm THICKNESS OF AC 20 DENSE BIN (IS 13108-1) 20mm CHIP SIZE TO TII SPECIFICATION FOR ROADWORKS.

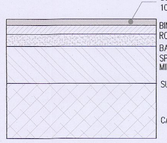
BASE COURSE- 100mm MINIMUM THICKNESS OF CA32 DENSE BASE 70/100 DES TO TII SPECIFICATION FOR ROAD WORKS.

MINIMUM BITUMINOUS THICKNESS 140mm.

SUB-BASE – 150mm MINIMUM THICKNESS REFER TO TII PUBLICATION – SERIES 800 (Including Clauses 801-804).

CAPPING – MATERIAL: REFER TO TII PUBLICATION – DN-PAV-0321 (i.e. Class 6F2/6F1, water tables, etc) COMPACTED THICKNESS: REFER TO TII PUBLICATION – DN-PAV-0321 (i.e. CBR, plate compaction, water tables, etc) FOR ROAD WORKS

RESIDENTIAL : SPINE ROAD-HEAVILY TRAFFICKED



SURFACE COURSE – 40mm MIN THICKNESS OF SMA SURF (IS EN 13108-5) OR HRA (IS EN 13108-4). 10 OR 14mm CHIP SIZE TO TII SPECIFICATION FOR ROADWORKS.

BINDER COURSE – 60mm THICKNESS OF AC 20 DENSE BIN (IS 13108-1) 20mm CHIP SIZE TO TII SPECIFICATION FOR ROADWORKS.

BASE COURSE- 80mm MINIMUM COMPACTED THICKNESS OF AC 32 DENSE BASE (IS 13108-1) CHIP SIZE 32mm TO TII SPECIFICATION FOR ROAD WORKS.
MINIMUM BITUMINOUS THICKNESS 180mm.

SUB-BASE – 150mm MINIMUM THICKNESS REFER TO TII PUBLICATION – SERIES 800 (Including Clauses 801-804).

CAPPING – MATERIAL: REFER TO TII PUBLICATION – DN-PAV-0321 (i.e. Class 6F2/6F1, water tables, etc)
COMPACTED THICKNESS: REFER TO TII PUBLICATION – DN-PAV-0321
(i.e. CBR, plate compaction, water tables, etc) FOR ROAD WORKS

IN-SITU CONCRETE FOOTPATH.

IN-SITU CONCRETE FOR FOOTWAYS AND PAVED AREAS SHALL MEET THE REQUIREMENTS FOR EXPOSURE CLASS XF4 IN IS EN 206-1. IT SHALL BE MADE, LAID AND CURED IN ACCORDANCE WITH REQUIREMENTS OF THE 1000 SERIES OR OTHERWISE DESCRIBED IN APPENDIX 11/1. IT SHALL BE FINISHED BY FLOATING WITH A WOODEN TROWEL AND WHILE STILL "GREEN" LIGHTLY BRUSHED WITH A BASS BROOM TO PRODUCE A SLIGHT ROUGHNESS, OR AS OTHERWISE DESCRIBED IN APPENDIX 11/1.

IN-SITU CONCRETE SHALL BE LAID TO DESIGN LEVELS AND CROSSFALLS AND BE OF 100mm NOMINAL THICKNESS OR AS DESCRIBED IN APPENDIX 11/1.

EXPANSION JOINTS SHALL BE NEATLY FORMED IN STRAIGHT.
FOOTPATH CONCRETE SHALL BE C40/50 XF4 EXPOSURE CLASS WITH A WATER/CEMENT RATIO OF 0.43 AND A MIN CEMENT CONTENT OF 240 Kg/m3

NOTES:

1. FOR AREAS WHERE CBR VALUE IS BELOW 2% CARRY OUT THE FOLLOWING:

   -THE SOFT AREA IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A GENERAL FILL MATERIAL (CLASS 1A/1B) TO TII SPECIFICATION TO THE UNDERSIDE OF A GEOGRID LAYER (ENKAGRID TC 40 OR SIMILAR 40kN/m). SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.

   AN ENGINEER SHOULD INSPECT THE SOFT AREA WHEN IT HAS BEEN FULLY EXCAVATED OUT PRIOR TO THE FILL /STABILISED MATERIAL BEEN PLACED/WORKED.

2. FOR AREAS WHERE CBR VALUES ARE BETWEEN 2% AND 5% CARRY OUT THE FOLLOWING:

   -THE SOIL IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A CAPPING MATERIAL TYPE 6F1/6F2 TO TII SPECIFICATIONS. DEPTHS OF CAPPING MATERIAL AS PER TABLE 1. SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.

SECTIONS LOCATIONS.

SCALE 1:1000

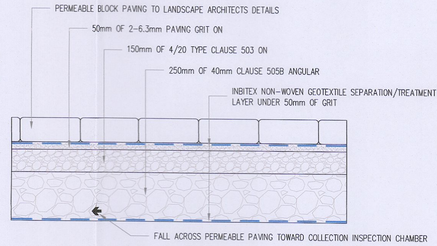
TABLE 1
FLEXIBLE PAVEMENT

THE MINIMUM REQUIRED THICKNESS OF NON-FROST SUSCEPTIBLE CAPPING MATERIAL IS SHOWN HEREUNDER:-

CBR SUBGRADE %	BELOW 2	2 – 5	5 – 15	15+
THICKNESS OF CAPPING(mm)	GEOGRID DESIGN	300	150	NO CAPPING

CBR TESTS SHALL BE CARRIED OUT AT A RATE OF ONE TEST PER 100 METERS OF ROAD

ALL ROADS DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS AND WITH REFERENCE TO THE DESIGN MANUAL FOR URBAN ROADS AND STREETS



PERMEABLE PAVING

NOTE:

SPECIFICATION FOR SUB-BASE AND LAYING COURSE:- THE CRUSHED STONE MUST POSSESS WELL DEFINED EDGES AND HAVE A MINIMUM 10% FINES VALUE OF 150KN WHEN TESTED IN ACCORDANCE WITH BS812 PART III.

SIEVE SIZE	% PASSING
100mm	100
63mm	90-100
37.5mm	60-80
20mm	15-30
10mm	0-5

D098

PLANNING DRAWING.
NOT FOR CONSTRUCTION.
ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM.
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

NOTES
1. For setting out refer to Architect's drawings.
2. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
3. DO NOT SCALE THIS DRAWING. Use figured dimensions only.
4. No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission as copyright holder except as agreed for use on the project for which the document was originally issued.
5. Ordnance Survey Ireland Licence Number EN 0074022

Rev. No.	Date	REVISION NOTE	Dm. By	Chkd. By
P1	19.05.2022	ISSUED FOR PLANNING	SC	SS
P2	10.06.2022	REISSUED FOR PLANNING	SC	SS
P3	23.02.2023	REVISED AND REISSUED FOR RFI	SC	SS

Architect	JFOC Architects
Project	Proposed Development at Newcastle, Co. Dublin
Title	Typical Road Cross Sections
Dwg. No.	NCA-CSC-ZZ-SI-DR-C-0013

Date	Dm by	Chkd by	Aprvd by	Scale	Revision
May 2022	DD	SS	OS	AS SHOWN @ A1	P3

CS Consulting Group
DUBLIN | LONDON | LIMERICK
Head Office
19-22 Dame Street, Dublin 2.
T: +353 (0)1 5480863
e: info@csconsulting.ie
w: www.csconsulting.ie
NSAI Certified
Quality I.S. EN ISO 9001:2008
Environment I.S. EN ISO 14001:2004
Energy I.S. EN ISO 50001:2011
Health & Safety OHSAS 18001:2007