Standard Construction Details (SCDs) – Series 000

TII Publications contains Standard Construction Details (SCDs) for use on National Road schemes in Ireland. This composite document brings together all the Series 000 SCDs from TII Publications current at the date of this document’s publication, into a single location for convenience.

Every effort has been made to keep this composite document updated and available from the TII Publications website (http://www.tiipublications.ie/). Please note that the SCD drawings available from the TII Publications website (individually linked below) are the controlled versions for all SCDs.

The SCDs contained in this document are as follows:

**Series 000 Road Type and Cross-Section**

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<th>SCD Code</th>
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<td>CC-SCD-00016</td>
<td>Dual Carriageway Urban 3 Lane</td>
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</tbody>
</table>
3000 VERGE
2500
3650 LANE
3650 LANE
2500
3000 VERGE

HARD SHOULDER

EDGEx MARKING

CENTRE
MARKING

EDGEx MARKING

ROAD PAVEMENT

12300

LONGITUDINAL DUCTS

NOTES :-
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. FOR LANE WIDTHS OF CLIMBING LANE SECTIONS ON TYPE 2 SINGLE CARRIAGEWAY SEE DN-GEO-03031.
5. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
6. THE VERGE WIDTH SHOULD BE INCREASED AS NECESSARY TO ACCOMMODATE PEDESTRIAN/CYCLIST FACILITIES AS REQUIRED.
7. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN A VERGE; REFER TO DN-ITS-03028 FOR GUIDANCE ON THE PROVISION OF LONGITUDINAL COMMUNICATION DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATION.
NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. FOR LANE WIDTHS OF CLIMBING LANE SECTIONS ON TYPE 2 SINGLE CARRIAGEWAY SEE DN-GEO-03031.
5. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
6. THE VERGE WIDTH SHOULD BE INCREASED AS NECESSARY TO ACCOMMODATE MANDATORY PEDESTRIAN/CYCLIST FACILITIES.
7. TWO WAY CYCLE FACILITIES SHOULD BE PROVIDED ON ONE SIDE OF THE ROAD UNLESS SITE SPECIFIC CONDITIONS REQUIRE FACILITIES ON BOTH SIDES.
8. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN A VERGE; REFER TO DN-ITS-03029 FOR GUIDANCE ON THE PROVISION OF LONGITUDINAL COMMUNICATION DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATION.
NOTES :-

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2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. FOR LANE WIDTHS OF CLIMBING LANE SECTIONS ON TYPE 3 SINGLE CARRIAGEWAY SEE DN-GEO-03031.
5. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
6. THE VERGE WIDTH SHOULD BE INCREASED AS NECESSARY TO ACCOMMODATE MANDATORY PEDESTRIAN/CYCLIST FACILITIES.
7. TWO WAY CYCLE FACILITIES SHOULD BE PROVIDED ON ONE SIDE OF THE ROAD UNLESS SITE SPECIFIC CONDITIONS REQUIRE FACILITIES ON BOTH SIDES.
8. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN A VERGE; REFER TO DN-ITS-03029 FOR GUIDANCE ON THE PROVISION OF LONGITUDINAL COMMUNICATION DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATION.
NOTES:

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2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
5. THE VERGE WIDTH SHOULD BE INCREASED AS NECESSARY TO ACCOMMODATE MANDATORY CYCLE FACILITIES IN ACCORDANCE WITH DN-GEO-03036.
6. TWO WAY CYCLE FACILITIES SHOULD BE PROVIDED ON ONE SIDE OF THE ROAD UNLESS SITE SPECIFIC CONDITIONS REQUIRE FACILITIES ON BOTH SIDES.
7. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN EACH VERGE; REFER TO DN-ITS-03029 FOR THE MINIMUM REQUIREMENTS FOR PROVISIONS OF LONGITUDINAL COMMUNICATIONS DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATIONS.
NOTES :-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
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   ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
5. THE VERGE WIDTH SHOULD BE INCREASED AS NECESSARY TO
   ACCOMMODATE MANDATORY PEDESTRIAN/CYCLIST FACILITIES IN
   ACCORDANCE WITH DN-GEO-03036.
6. TWO WAY CYCLE FACILITIES SHOULD BE PROVIDED ON ONE SIDE OF
   THE ROAD UNLESS SITE SPECIFIC CONDITIONS REQUIRE FACILITIES
   ON BOTH SIDES.
7. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN EACH VERGE;
   REFER TO DN-ITS-03029 FOR THE MINIMUM REQUIREMENTS FOR
   PROVISIONS OF LONGITUDINAL COMMUNICATIONS DUCTS. REFER TO
   CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT
   SPECIFICATIONS.

EXAMPLE 1:
EMERGENCY
EGRESS ROUTE
NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. WIDTH OF CENTRAL RESERVE FOR A TYPE 1 DUAL CARRIAGEWAY IS DETERMINED BY THE TYPE OF SAFETY FENCE OR BARRIER. REFER TO DN-REQ-03034.
5. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMODATE THE FEATURES AND SERVICES CONTAINED THEREIN.
6. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITHIN EACH VERGE. REFER TO DN-ITS-03029 FOR THE MINIMUM REQUIREMENTS FOR PROVISION OF LONGITUDINAL COMMUNICATION DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATION.
7. WHERE THE TRAFFIC ASSESSMENT INDICATES MORE THAN TWO LANES ARE REQUIRED IN EACH DIRECTION, ANY ADDITIONAL LANES SHALL BE 3.5M IN WIDTH. DETAILS OF VERGES, HARD SHOULDERS AND THE CENTRAL RESERVE SHALL BE THE SAME AS FOR 2 LANES IN EACH DIRECTION.
NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE DN-GEO-03036 FOR DIMENSIONS OF CROSS-SECTION ELEMENTS.
3. FOR DETAILS OF ROAD MARKINGS SEE THE TRAFFIC SIGNS MANUAL.
4. WIDTH OF CENTRAL RESERVE FOR A DUAL CARRIAGEWAY MOTORWAY IS DETERMINED BY THE TYPE OF SAFETY FENCE OR BARRIER. REFER TO DN-REQ-03934.
5. THE VERGE WIDTH SHOULD BE INCREASED AS REQUIRED TO ACCOMMADATE THE FEATURES AND SERVICES CONTAINED THEREIN.
6. LONGITUDINAL DUCTS ARE TO BE PROVIDED WITH IN EACH VERGE, REFER TO DN-ITS-03029 FOR THE MINIMUM REQUIREMENTS FOR PROVISION OF LONGITUDINAL COMMUNICATION DUCTS. REFER TO CC-SPW-00500 AND CC-SPW-01500 FOR FURTHER DETAILS ON DUCT SPECIFICATION.
7. WHERE THE TRAFFIC ASSESSMENT INDICATES MORE THAN TWO LANES ARE REQUIRED IN EACH DIRECTION, ANY ADDITIONAL LANES SHALL BE 3.5M IN WIDTH. DETAILS OF VERGES, HARD SHOULDERS AND THE CENTRAL RESERVE SHALL BE THE SAME AS FOR 2 LANES IN EACH DIRECTION.
Notes:–

1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. 6m Median provided where extra lane may be required in the future.
5. The verge width should be increased as required to accommodate the features and services contained therein.
6. Longitudinal ducts are to be provided within each verge; refer to NRA TA 77 for the minimum requirements for provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale 1:100
Notes:
1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein.
5. Where required, longitudinal ducts are to be provided within a verge; refer to NRA TA 77 for guidance on the provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale: 1:100
Notes:

1. All dimensions are in metres.
2. See NRA T027 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein.
5. Where required, longitudinal ducts are to be provided within a verge; refer to NRA TA 77 for guidance on the provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale 1:100
Notes:
1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein.
5. Where required, longitudinal ducts are to be provided within a verge; refer to NRA TA 77 for guidance on the provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale 1:100
OVERBRIDGE WITH ABUTMENT
AT BACK OF VERGE

OVERBRIDGE WITH PIER
AT BACK OF VERGE

Notes:–
1. All dimensions are in metres
2. See NRA TD27 for dimensions of cross-section elements

Scale 1:100
Notes:

1. All dimensions are in metres.
2. See NRA T027 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. For lane widths of climbing lanes on single carriageway urban distributor roads see NRA T09.
5. The verge width should be increased as required to accommodate the features and services contained therein.
6. Table 5/1 of T09 does not apply to urban roads.
7. Footpath/Cycle Track width as per Table 1 of NRA T0 27.
8. Where required, longitudinal ducts are to be provided within a verge; refer to NRA TA 77 for guidance on the provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale 1:100
Notes:
1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein, including any footway / cycle track requirements.
5. Table 6/1 of TD9 does not apply to urban roads.
6. Footpath / Cycle Track width as per table 1 of NRA TD 27.
7. Longitudinal ducts are to be provided within each verge; refer to NRA TA 77 for the minimum requirements for provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.

Scale 1:100
Notes:
1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein, including any footway / cycle track requirements.
5. Table 6/1 of TD9 does not apply to urban roads.
6. Footpath/ Cycle Track width as per table 1 of NRA TD 27.
7. Longitudinal ducts are to be provided within each verge; refer to NRA TA 77 for the minimum requirements for provision of longitudinal communication ducts. Refer to Series 500 and 1500 of the NRA MCDRW for further details on duct specification.
Notes:

1. All dimensions are in metres.
2. See NRA TD27 for dimensions of cross-section elements.
3. For details of road markings see the Traffic Signs Manual.
4. The verge width should be increased as required to accommodate the features and services contained therein, including any footway / cycle track requirements.
5. Table 6/1 of TD9 does not apply to urban roads.
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Scale 1:100