



Bonneagar Iompair Éireann  
Transport Infrastructure Ireland

# TII Publications



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## Standard Construction Details - Series 600

April 2017

## Standard Construction Details (SCDs) – Series 600

TII Publications contains Standard Construction Details (SCDs) for use on National Road schemes in Ireland. This composite document brings together all the Series 600 SCDs from TII Publications current at the date of this document's publication, into a single location for convenience.

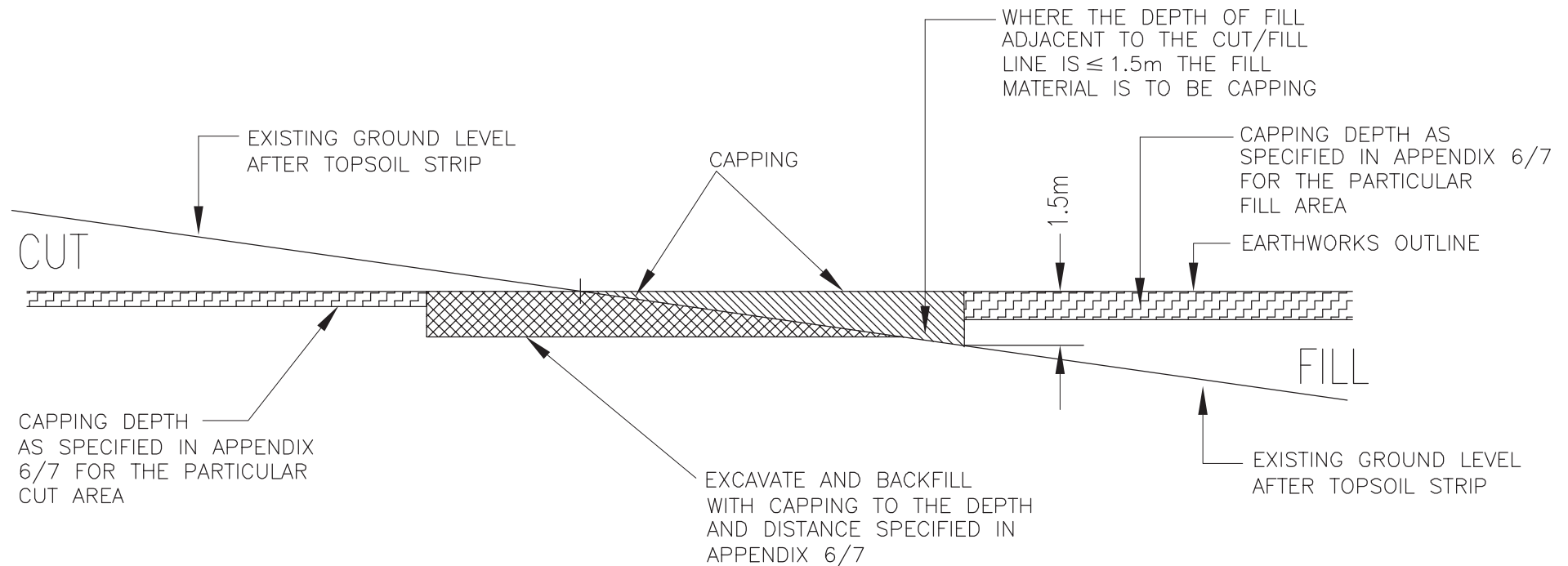
Every effort has been made to keep this composite document updated and available from the TII Publications website (<http://www.tiipublications.ie/>). Please note that the SCD drawings available from the TII Publications website (individually linked below) are the controlled versions for all SCDs.

The SCDs contained in this document are as follows:

### Series 600 Earthworks

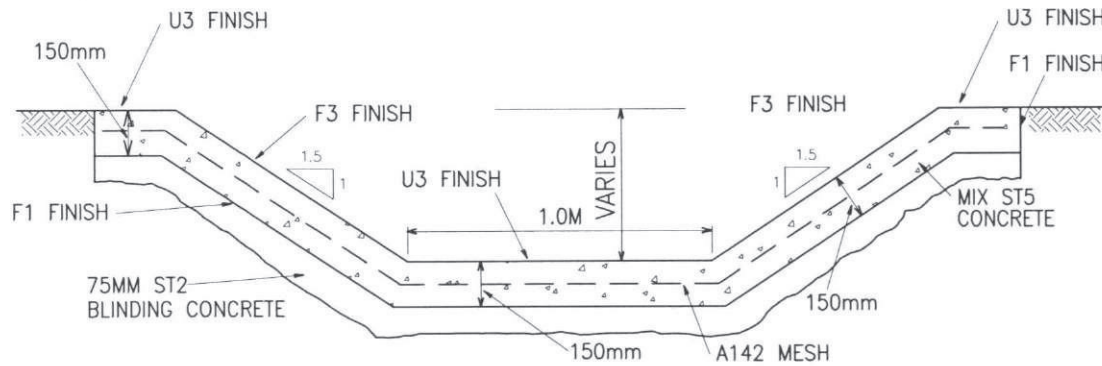
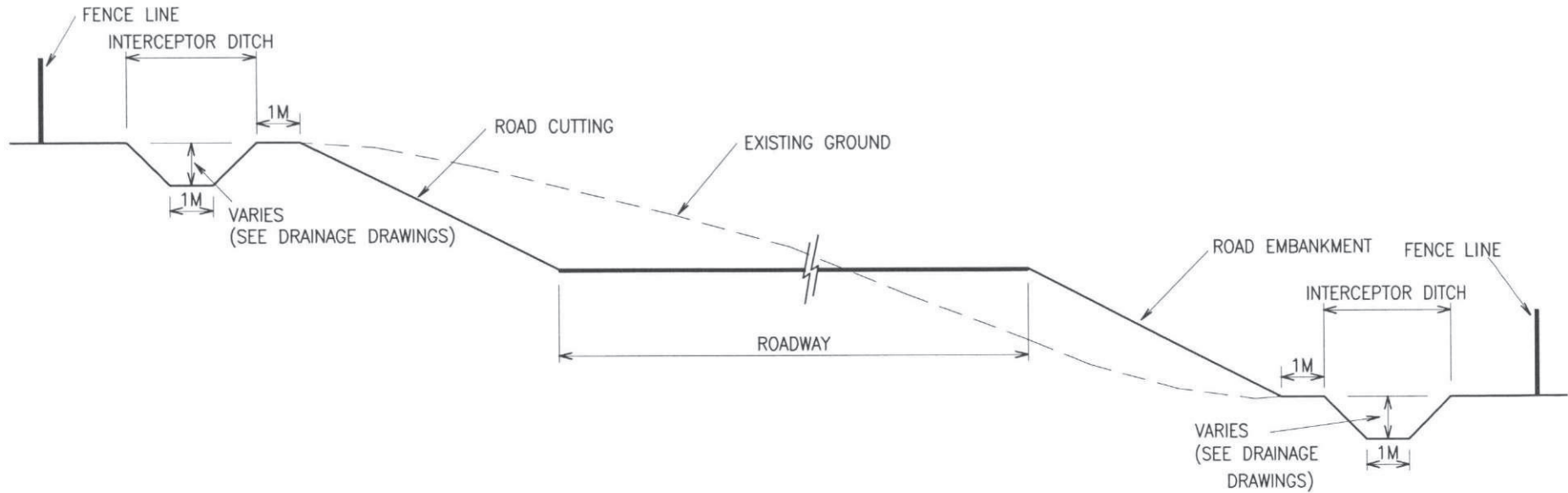
<a href="#">CC-SCD-00601</a>	Earthworks - Transition Area Between Cut and Fill
<a href="#">CC-SCD-00602</a>	Earthworks - Interceptor Ditches
<a href="#">CC-SCD-00603</a>	Earthworks - Rounding of Earthworks Slopes
<a href="#">CC-SCD-00604</a>	Earthworks - Treatment of Abandoned Watercourse and/or Ditch
<a href="#">CC-SCD-00605</a>	Earthworks - Benching for Embankment of Sloping Ground
<a href="#">CC-SCD-00606</a>	Earthworks - Embankment in Areas Prone to Flooding
<a href="#">CC-SCD-00607</a>	Earthworks - Rock Cut Slope
<a href="#">CC-SCD-00608</a>	Earthworks - Fill Against Existing Embankment
<a href="#">CC-SCD-00609</a>	Earthworks - Fill to Structures
<a href="#">CC-SCD-00610</a>	Earthworks - Capping Treatment on Embankment Nearside Verge

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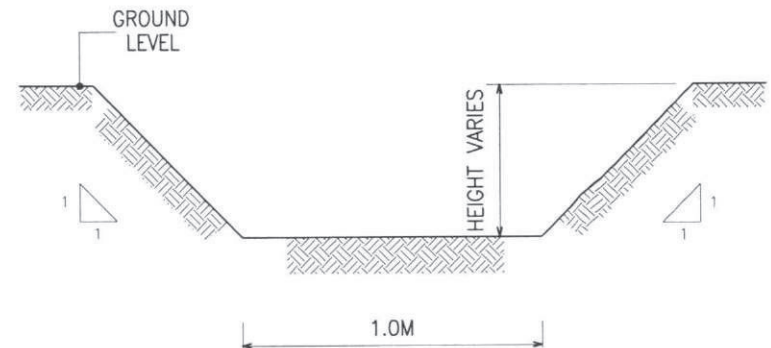


SCALE 1:200

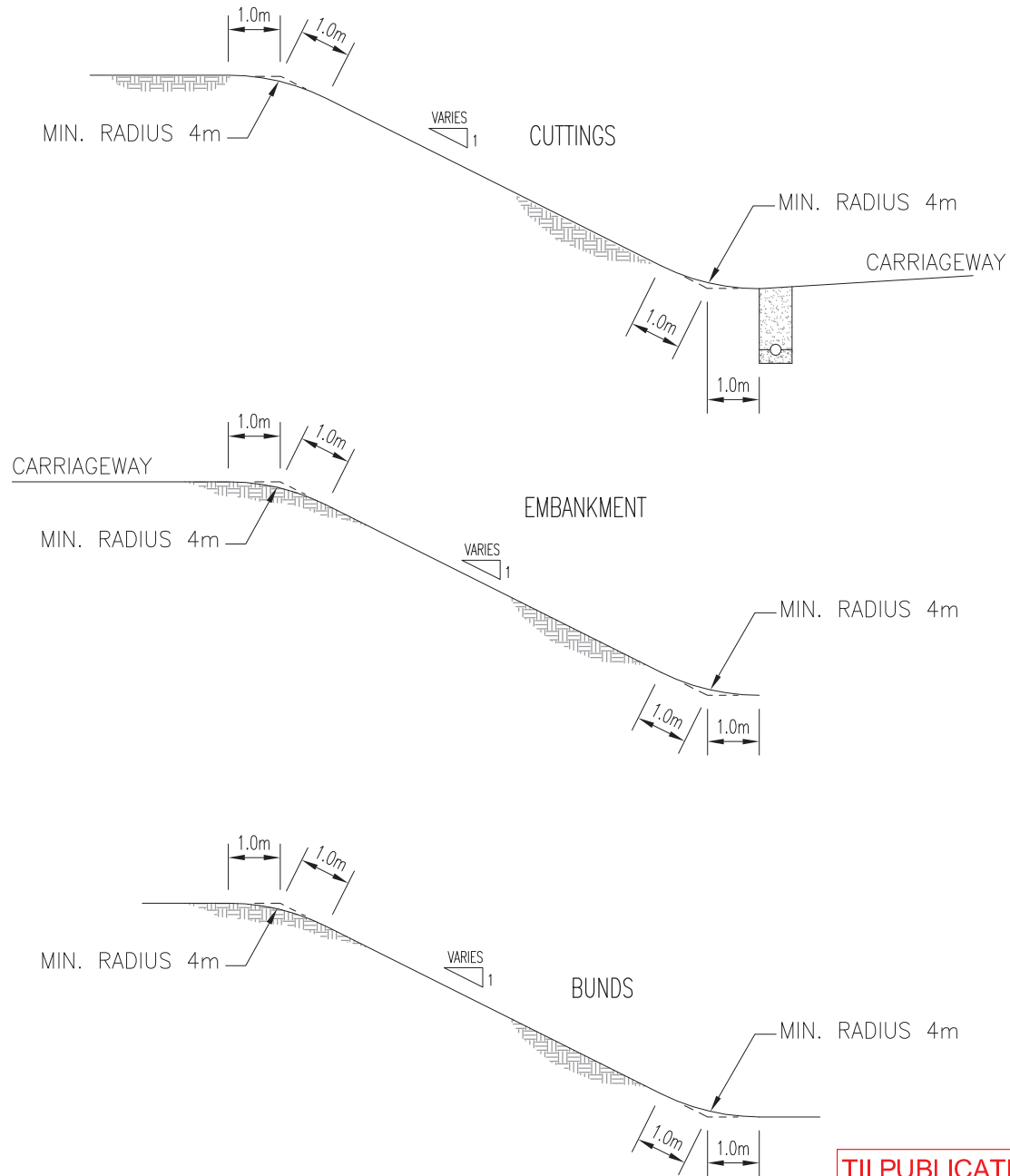
P2	03/11
P1	03/00
Issue	Date



CONCRETE LINED DITCHES - D1



UNLINED DITCHES - D2



NOTES:

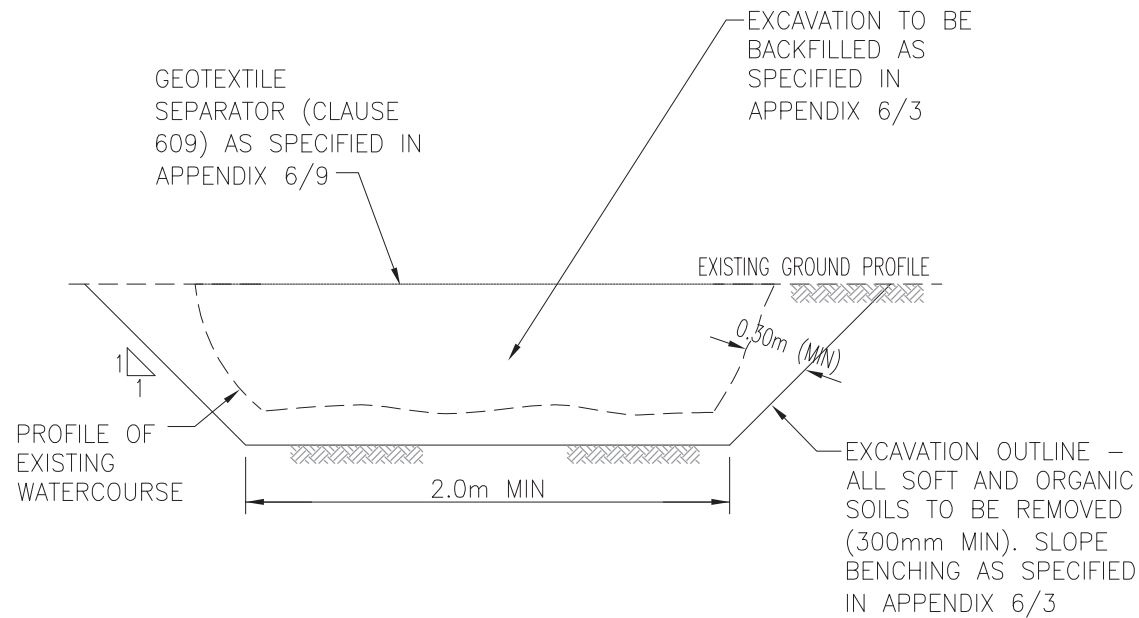
1. THE MAXIMUM PERMITTED SLOPE ANGLE SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND THE EARTHWORKS DESIGN.
2. THE ROUNDING OF ROCK CUTTING SLOPES SHALL BE DETERMINED BASED ON THE PERMANENT SAFETY BARRIER REQUIREMENTS FOR THAT SLOPE.

NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00603

NOTES:

1. THE EXCAVATION IS TO BE CARRIED OUT A MINIMUM OF 3.0m FROM THE EARTHWORKS TOE ON THE UPSTREAM AND DOWNSTREAM ENDS OF THE WATERCOURSE.
2. A CLASS 2A PLUG SHALL BE PROVIDED A MINIMUM OF 3.0m FROM THE EMBANKMENT TOE ON THE UPSTREAM AND DOWNSTREAM ENDS OF THE WATERCOURSE.



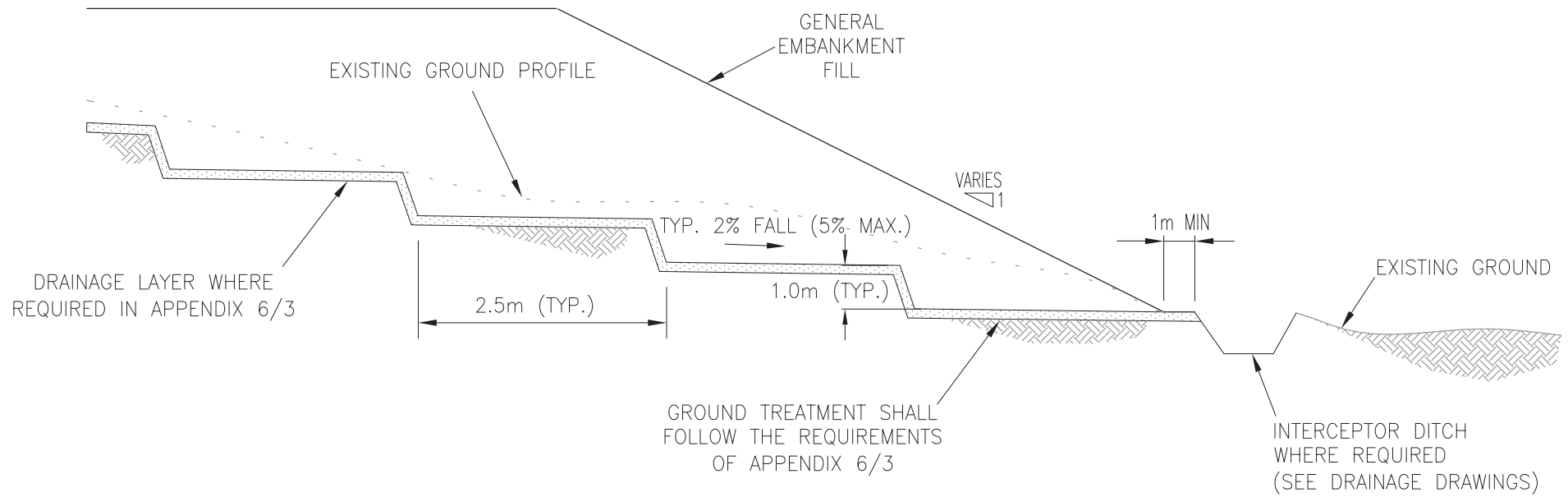
NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00604

P01	03/13
Issue	Date

NOTES:

1. BENCHING SHALL BE CARRIED OUT ON EMBANKMENT FOUNDATIONS WHERE THE SLOPE OF EXISTING GROUND EXCEEDS 1(V):5(H).
2. BENCH DIMENSIONS SHALL BE AS SPECIFIED IN APPENDIX 6/3 AND SHALL NOT RESULT IN A SLOPE ANGLE STEEPER THAN 1(V):2.5(H) MEASURED FROM THE TOE TO THE CREST OF THE SLOPE.



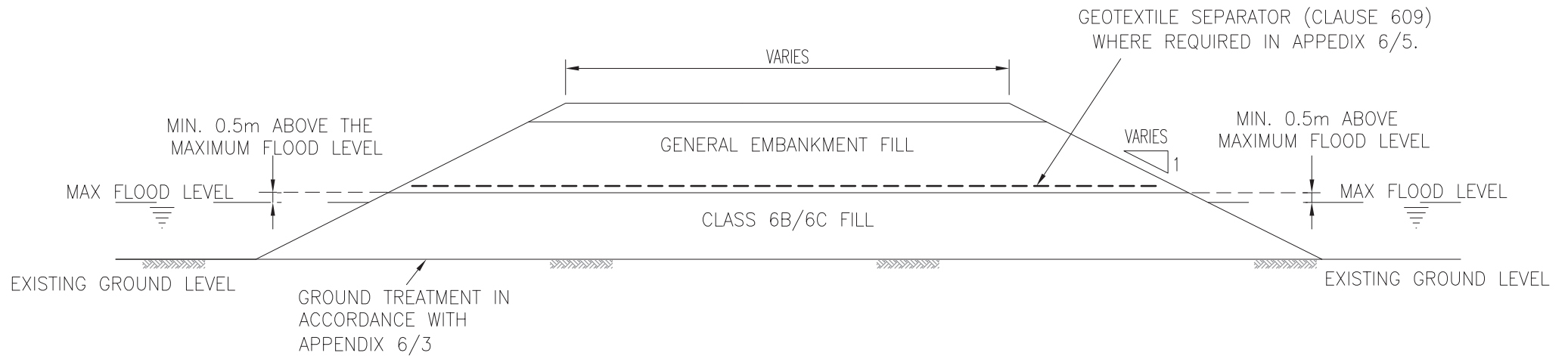
NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00605

	ROAD CONSTRUCTION DETAILS	EARTHWORKS			BENCHING FOR EMBANKMENT ON SLOPING GROUND	Drawing No.
			P01	03/13		RCD/
			Issue	Date		600/5

NOTES:

1. WHERE DETAILS OF FLOOD LEVEL ARE NOT AVAILABLE, A MINIMUM OF 1.0m OF CLASS 6B/6C SHALL BE USED IN AREAS PRONE TO FLOODING.



NOT TO SCALE

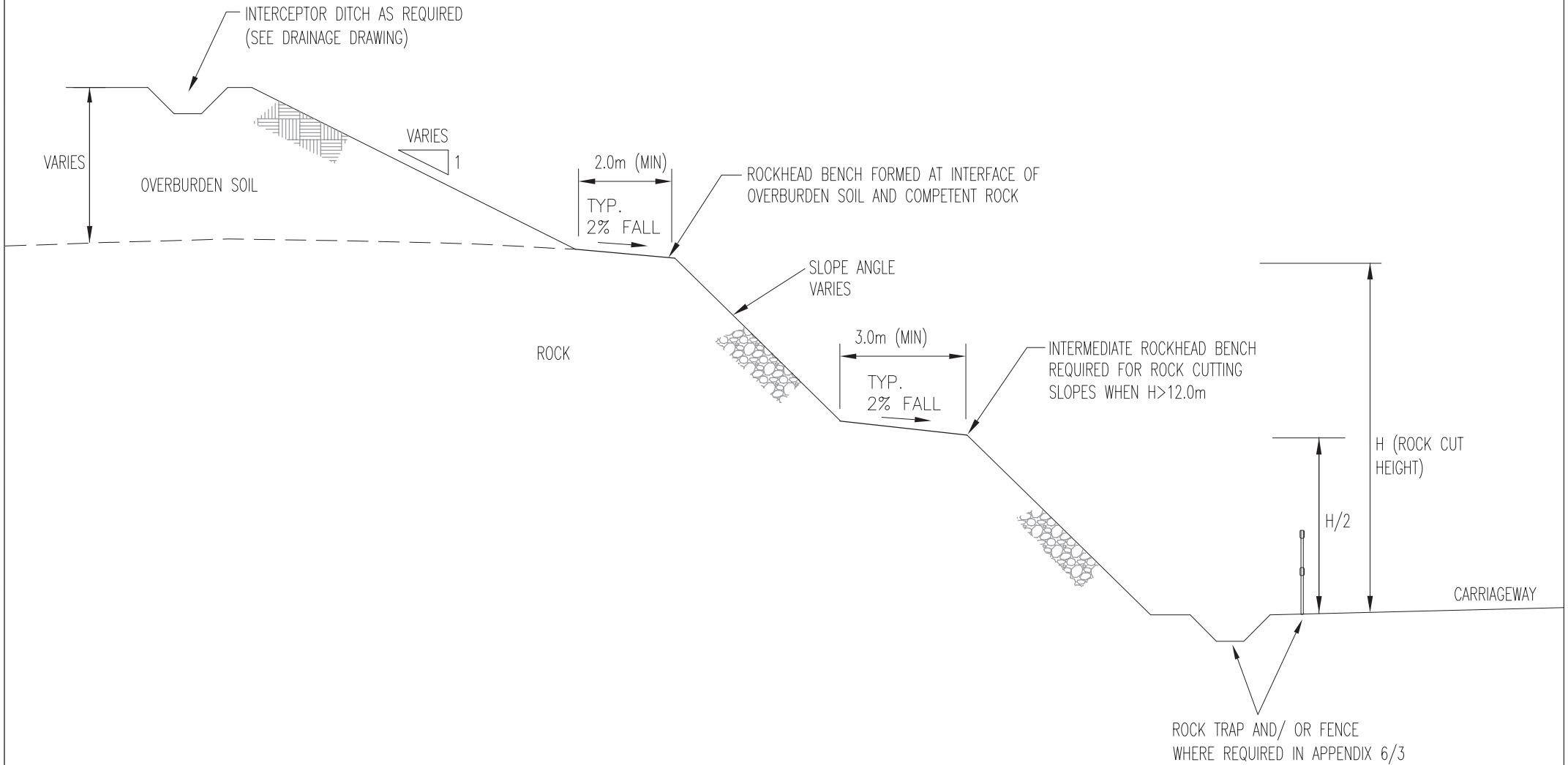
TII PUBLICATION NUMBER: CC-SCD-00606

	ROAD CONSTRUCTION DETAILS	EARTHWORKS			EMBANKMENT IN AREAS PRONE TO FLOODING	Drawing No.
			P01	03/13		RCD/
			Issue	Date		600/6



NOTES:

1. THE MAXIMUM PERMITTED ROCK SLOPE ANGLE SHALL BE AS SPECIFIED IN APPENDIX 6/3

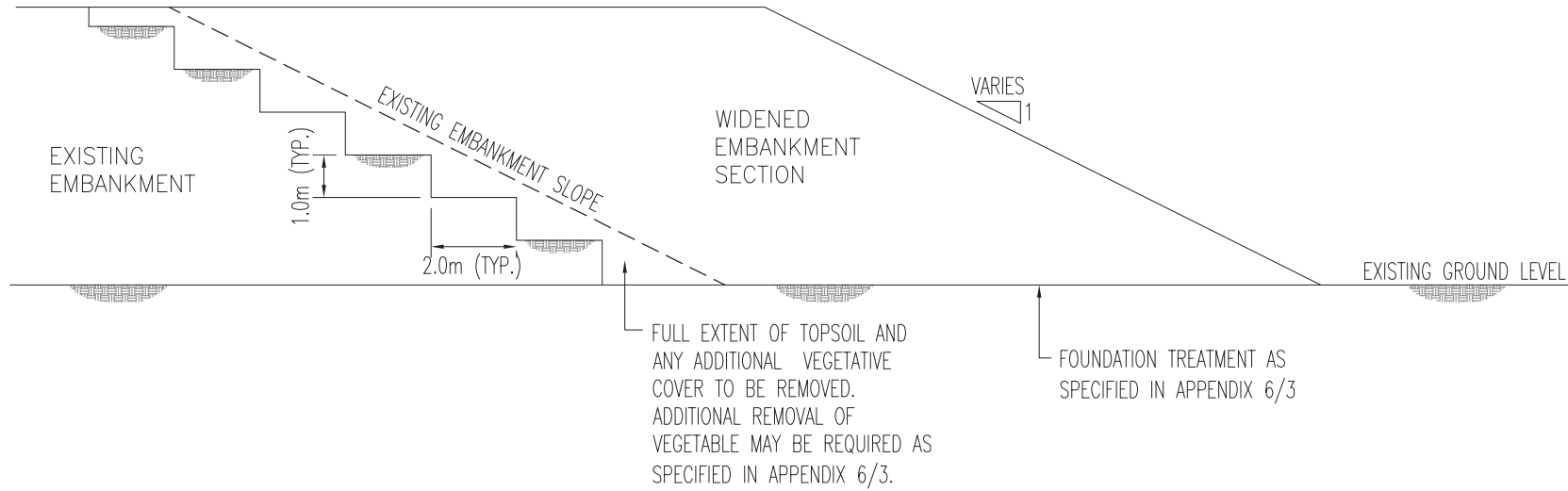


NOT TO SCALE

	ROAD CONSTRUCTION DETAILS	EARTHWORKS			ROCK CUT SLOPE	Drawing No.
			P01	03/13		RCD/
			Issue	Date		600/7

NOTES:

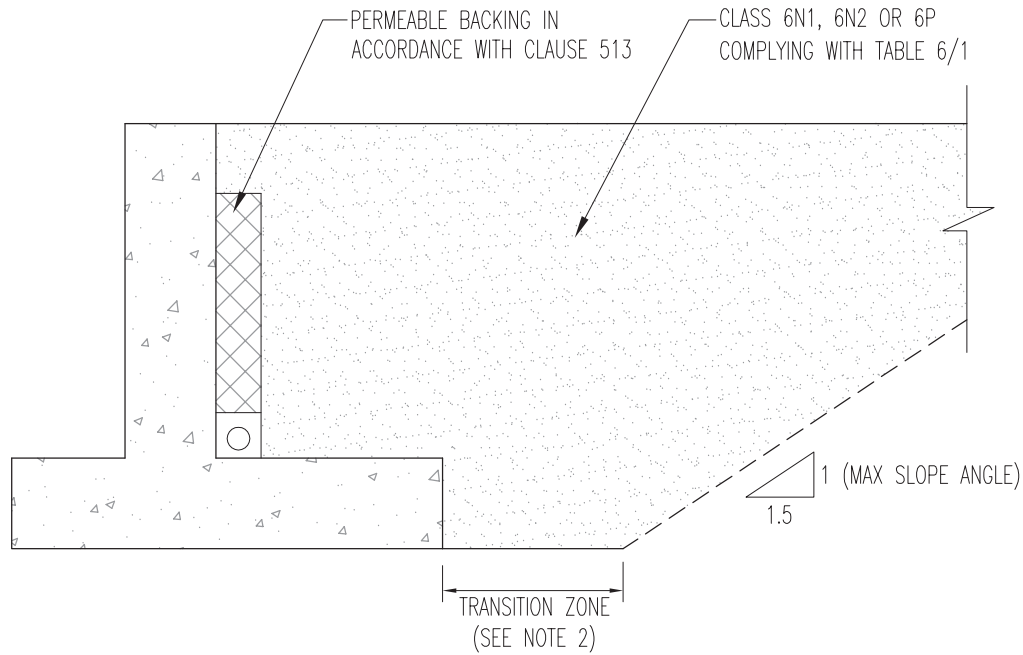
1. BENCH DIMENSIONS SHALL BE AS SPECIFIED IN APPENDIX 6/3 AND SHALL NOT RESULT IN A SLOPE ANGLE STEEPER THAN 1(V): 2(H) MEASURED FROM THE TOE TO THE CREST OF THE SLOPE.



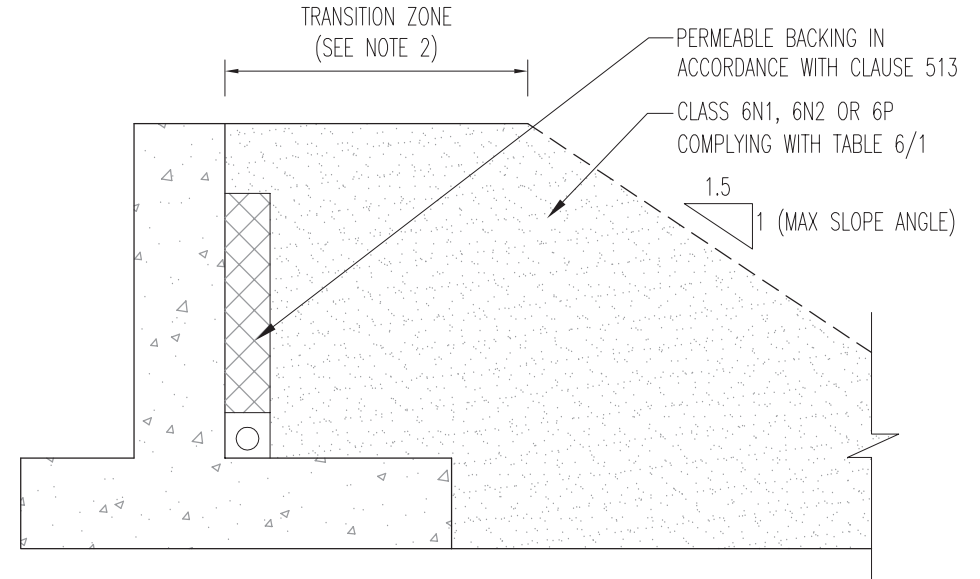
NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00608

	ROAD CONSTRUCTION DETAILS	EARTHWORKS			FILL AGAINST EXISTING EMBANKMENT	Drawing No.
			P01	03/13		RCD/
			Issue	Date		600/8



STRUCTURE CONSTRUCTED AFTER EARTHWORKS



STRUCTURE CONSTRUCTED IN ADVANCE OF EARTHWORKS

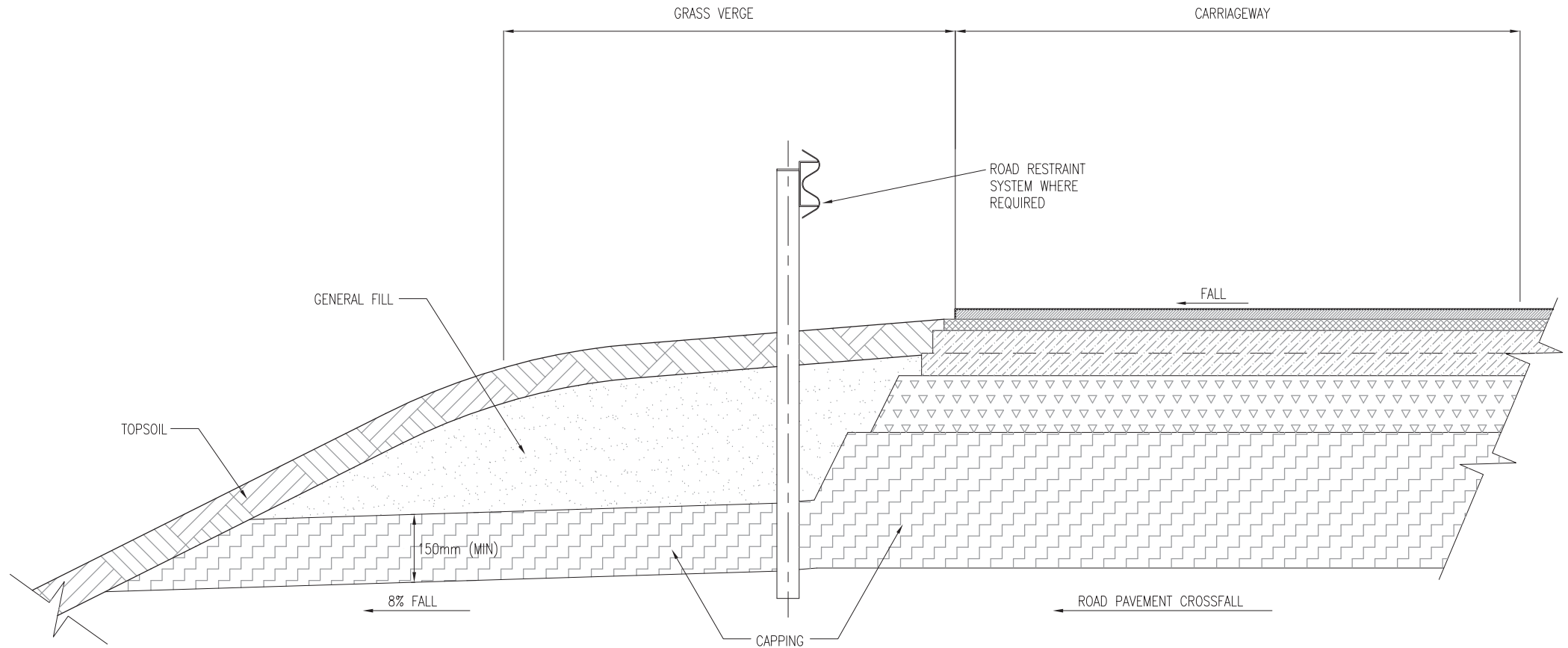
NOTES:

1. THE WIDTH OF THE TRANSITION ZONE SHALL BE SHOWN ON THE RELEVANT STRUCTURES DRAWINGS.
2. MINIMUM WIDTH OF THE TRANSITION ZONE SHALL BE DETERMINED BY:
  - a) THE REQUIREMENTS OF GOOD COMPACTION, SO AS TO REDUCE TO A MINIMUM DIFFERENTIAL SETTLEMENT BETWEEN THE EARTHWORKS AND THE STRUCTURE AND
  - b) THE NEED TO SATISFY THE PRINCIPLES USED IN THE CALCULATION OF THE EARTH PRESSURE ON THE STRUCTURE. BUT SHALL NOT BE LESS THAN 1.0m.
3. THE GEOMETRY OF THE STRUCTURE IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.

NOT TO SCALE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT WHERE STATED.




NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00610

	ROAD CONSTRUCTION DETAILS	EARTHWORKS			CAPPING TREATMENT ON EMBANKMENT NEARSIDE VERGE	Drawing No.
			P01	03/13		RCD/
			Issue	Date		600/10



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