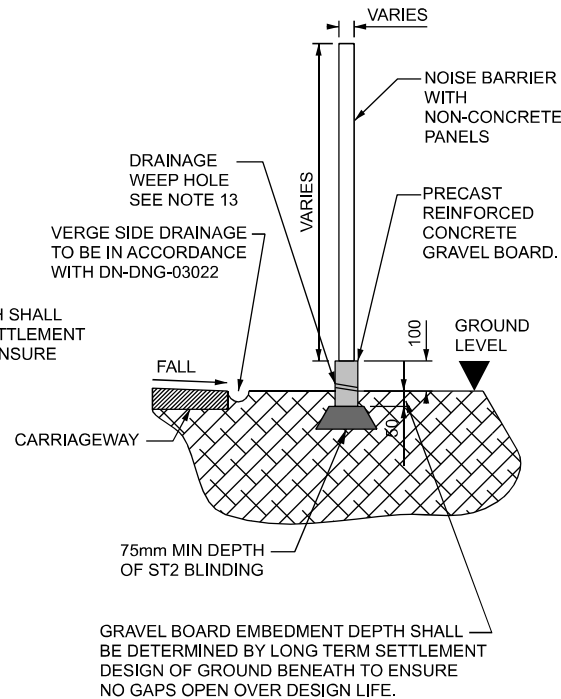


ON-CONCRETE ENVIRONMENTAL NOISE BARRIER ELEVATION



GRAVEL BOARD CROSS SECTION

SECTION A - A

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL NON-CONCRETE ENVIRONMENTAL NOISE BARRIERS SHALL BE SUPPLIED WITH A PRECAST CONCRETE GRAVEL BOARD.
3. THE MINIMUM COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE DN-STR-03012.
4. MINIMUM EXPOSURE CLASS TO BE XC4.
5. REINFORCED CONCRETE SHALL BE A MINIMUM GRADE C32/ 40.
6. ALL GRAVEL BOARD FACES ARE TO HAVE AN F4 FINISH.
7. ALL STRUCTURAL CONCRETE SHALL BE SPECIFIED IN ACCORDANCE WITH CC-SPW-01700.
8. EMBEDMENT OF GRAVEL BOARD TO BE A MINIMUM OF 50mm. DEEPER EMBEDMENT TO BE DETERMINED AS REQUIRED ON A CASE BY CASE BASIS.
9. THIS SCD IS AN INDICATIVE DETAIL SHOWING MINIMUM REQUIREMENTS. FULL DESIGN AND DETAILING SHALL BE UNDERTAKEN ON A SCHEME SPECIFIC BASIS.
10. THIS SCD IS ONLY TO BE USED IN ASSOCIATION WITH A UNIQUE STRUCTURAL DESIGN. THIS DESIGN IS TO BE CARRIED OUT IN ACCORDANCE WITH THE TII REQUIREMENTS FOR THE USE OF EUROCODES FOR THE DESIGN OF ROAD STRUCTURES.
11. ALL ENVIRONMENTAL NOISE BARRIERS SHALL BE SUPPLIED IN ACCORDANCE WITH CC-SPW-00300.
12. DETAILING OF THE GRAVEL BOARD SHALL BE THE SOLE RESPONSIBILITY OF THOSE SUPPLYING AND INSTALLING THE BARRIER.
13. SURFACE AND SUB-SURFACE DRAINAGE ADJACENT TO THE CARRIAGEWAY SHALL BE IN ACCORDANCE WITH DN-DNG-03022 REQUIREMENTS. WEEP HOLES SHALL BE PROVIDED WHERE REQUIRED. THE INVERT LEVEL OF THE WEEP HOLE, SIZE AND FREQUENCY ALONG THE NOISE BARRIER GRAVEL BOARD IS TO BE DESIGNED SUCH THAT THE GRAVEL BOARD DOES NOT ADVERSELY AFFECT THE ALLOWABLE SURCHARGED FLOW WIDTHS OUTLINED IN DN-DNG-03022. THE MAXIMUM HEIGHT OF THE WEEP HOLE INVERT SHOULD BE SET SO THAT IT IS NO HIGHER THAN THE EDGE OF THE PAVEMENT. DESIGNERS SHOULD ALSO CONSIDER THE EFFECTS OF THE NOISE BARRIER GRAVEL BOARD IN MORE EXTREME RAINFALL EVENTS WHEN DESIGNING THE WEEP HOLES, TO ALLOW FOR APPROPRIATE ROUTING OF SURCHARGED FLOW AND PREVENT VERGE EROSION AT THE GRAVEL BOARD INTERFACE.



PUBLICATION TITLE

NON CONCRETE ENVIRONMENTAL NOISE BARRIER
GENERAL ARRANGEMENT NON-CONCRETE NOISE BARRIER
PRECAST CONCRETE GRAVEL BOARD

ACTIVITY

STREAM

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