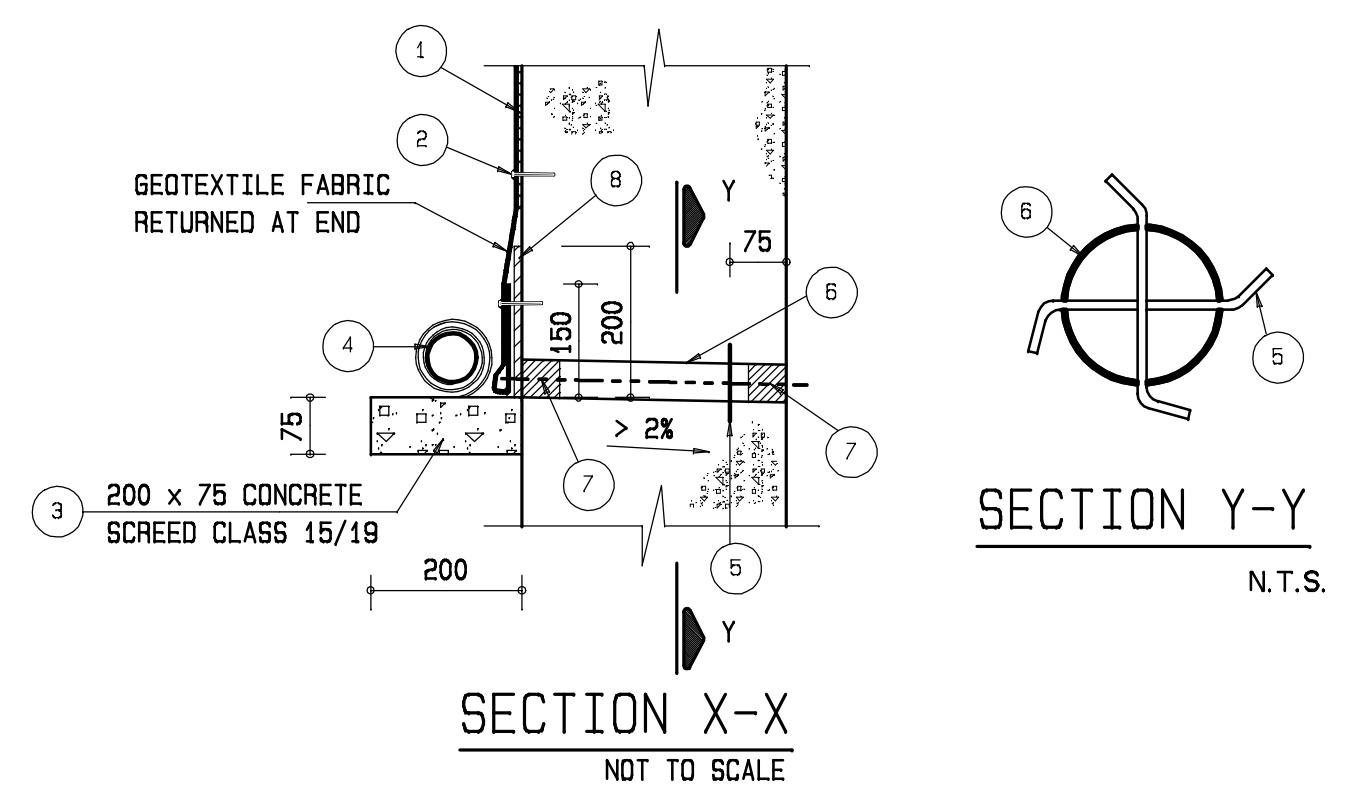
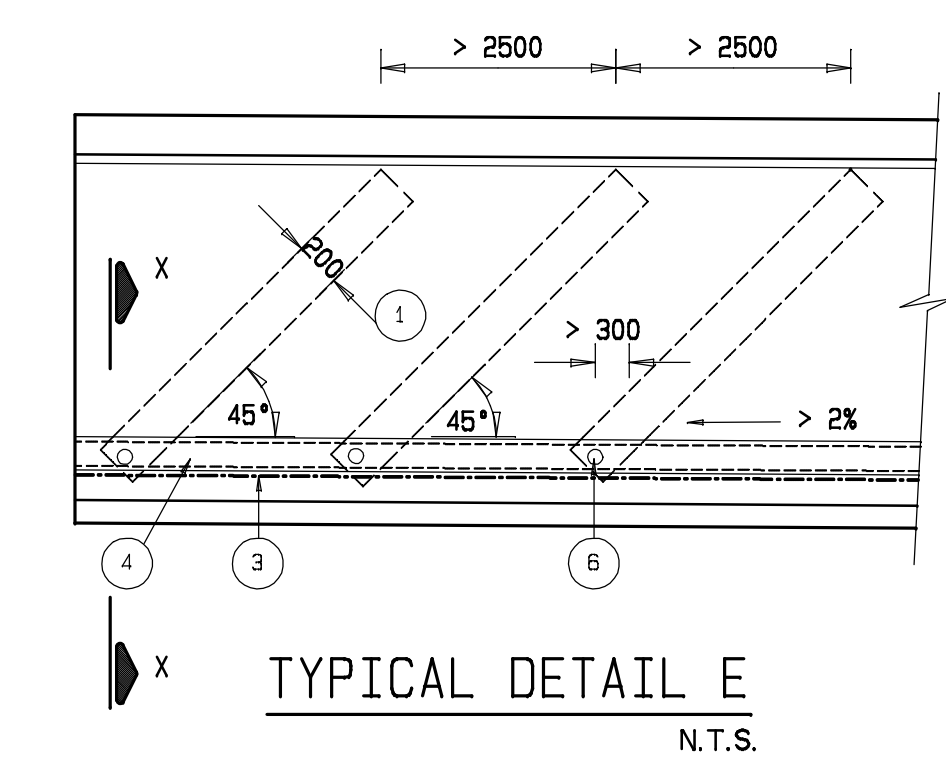


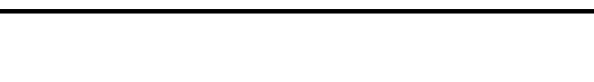
NOTE: JOINING NEW CONCRETE TO OLD

- 1) ALL CONTACT SURFACES SHALL BE ROUGHENED AND CLEANED OF ALL DIRT AND LOOSE PARTICLES TO EXPOSE COARSE AGGREGATE.
- 2) DOWELS SHALL BE INSTALLED IN HOLES DRILLED INTO THE EXISTING STRUCTURE AS SHOWN ON DRAWINGS.
- 3) DRILLED HOLES MUST BE FREE OF DUST AND DEBRIS.
- 4) ALL HORIZONTAL DOWELS TO BE BONDED BY AN APPROVED EPOXY - SIKADUR 31 OR SIMILAR APPROVED
- 5) ALL CONTACT SURFACES SHALL BE PAINTED WITH AN APPROVED WET-TO-DRY EPOXY.

- LEGEND
- ① - 200mm WIDE FILTER ELEMENTS SECURED TO BACK FACE OF STRUCTURE AT 45° SLOPE.
  - ② - CONCRETE NAILS WITH 25 X 25mm HOOP IRON WASHERS, TO SECURE FILTER ELEMENTS TO STRUCTURE AT 1m CENTRES.
  - ③ - CONCRETE SCREED TO GRADE AND LEVEL OF DRAINAGE PIPES PRIOR TO PLACING OF DRAINAGE PIPES.
  - ④ - 65mm dia PERFORATED DRAINAGE PIPES WRAPPED IN GEOTEXTILE. THE GEOTEXTILE SHALL HAVE AN OVERLAP OF NOT LESS THAN 150mm AND BE TIED AT CENTRES NOT GREATER THAN 200mm.
  - ⑤ - 3.5mm dia STAINLESS STEEL WIRE BARRIER.
  - ⑥ - 50mm DIA uPVC WEEPHOLES AT 2.0m CENTRES. THE CONTRACTOR SHALL ENSURE THAT THE WEEPHOLES ARE CLEAR AND APPROVED BY THE ENGINEER BEFORE THE FILTER ELEMENTS ARE INSTALLED
  - ⑦ - TEMPORARY POLYSTYRENE PLUG TO PREVENT INGRESS OF GROUT DURING PLACING OF CONCRETE.
  - ⑧ - 200mm WIDE FILTER ELEMENT SECURED TO BACK FACE OF STRUCTURE AT SAME GRADE AS WEEPHOLES.



FOR TENDER PURPOSES ONLY

			CONSTRUCTION RECORD			<p>Worley Parsons RSA retains the copyright in all intellectual property, including designs and/or documents prepared in terms of this appointment or the project covered by the appointment. The client may use the designs and/or documents for the sole purpose of their intended use on the project only subject to payment for the design having been received. Use for any other purpose, whether or not the design and/or documents have been paid for constitutes an infringement of copyright, and all rights are reserved.</p> <p>All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the engineer.</p> <p>Copyright reserved</p>	DESIGNED BY		CONSULTANT APPROVAL		<p>HEAD OFFICE 48 Tambotse Avenue Val de Grace Pretoria 0184</p> <p>PO Box 415 PRETORIA 0001 South Africa</p> <p>Tel: (012) 844 8000</p>	 <p>SOUTH AFRICAN NATIONAL ROADS AGENCY LTD</p> <p>BUILDING SOUTH AFRICA THROUGH BETTER ROADS</p>	NORTHERN REGION		<p>ACCEPTANCE</p> <p>THE ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATEVER CAUSE OR HOWEVER ARISING.</p> <p>for CEO : SA NATIONAL ROADS AGENCY LTD</p> <p>Date: _____</p>	<p>REHABILITATION OF NATIONAL ROUTE 11 SECTION 13 FROM R518 INTERSECTION(km 8.340) TO GROOTSANDSLOOT RIVER (km 24.280)</p> <p>NEW 2/2.40 x 1.50m CULVERT AT km 10.517 399</p> <p>GENERAL DETAILS</p> <p>SCALE: AS SHOWN      SHEET 3 OF 4</p>		PROJECT NUMBER		NRA N 011-130-2010/1	
<p>WORKS CONTRACT ENGINEER</p> <p>Name: _____ Prof. Reg. No.: _____ Date: _____</p> <p>SANRAL PROJECT MANAGER</p> <p>Name: _____ Date: _____</p>			CHECKED BY		Date		DRAWING LOCATION DATA		START	END											
			NAME		NAME		ROUTE		N11	N11											
			Prof. Reg. No.		Prof. Reg. No.		SECTION		13	13											
			DATE		DATE		DRAWING km DISTANCE		10.517	10.517											
No.	DATE	REVISION	CONSULT. ENG.	SANRAL PROJECT MANAGER		DRAWN BY		Date		STRUCTURES - CULVERTS		CONSULTANT DRAWING No.		251020-PP0-MC12-03	VER V1						
				NAME		NAME		DATE		SANRAL DOC #											

