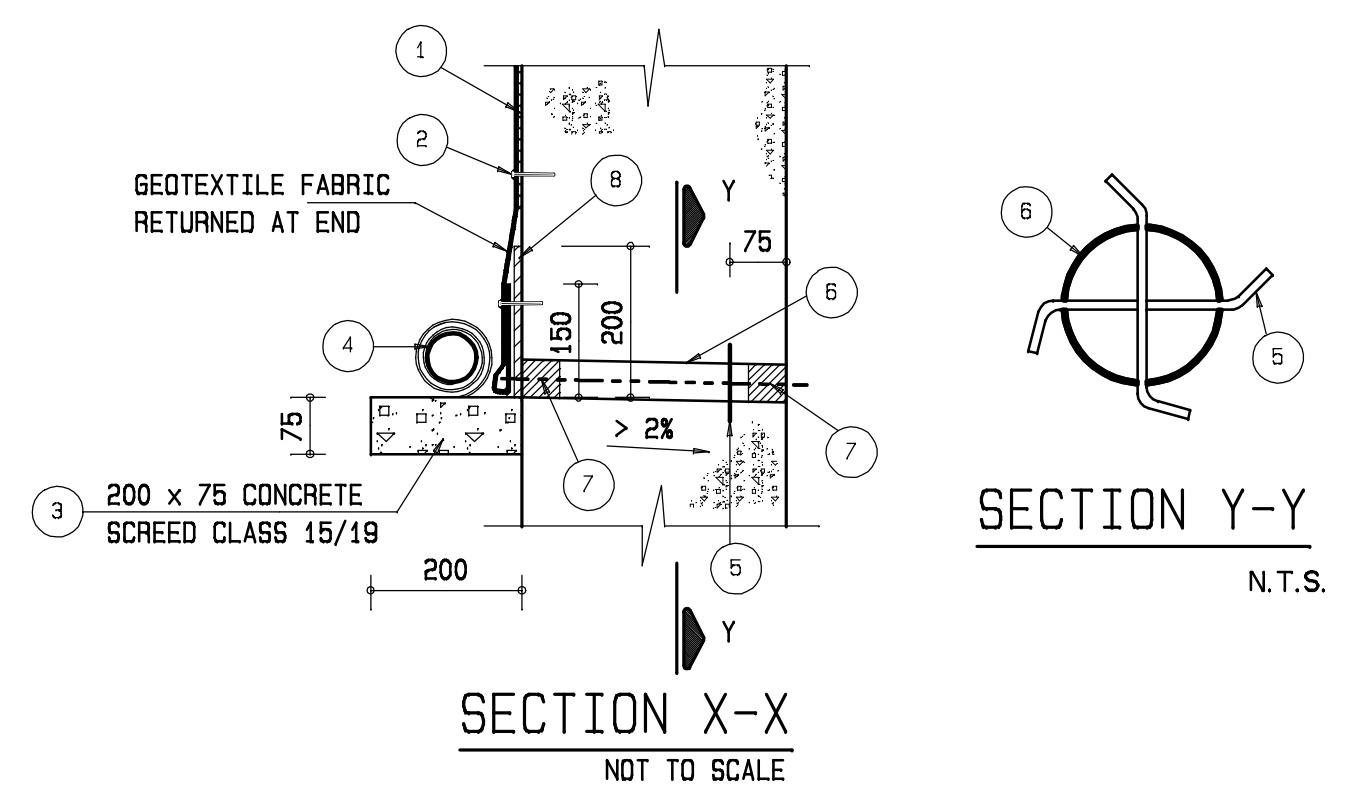
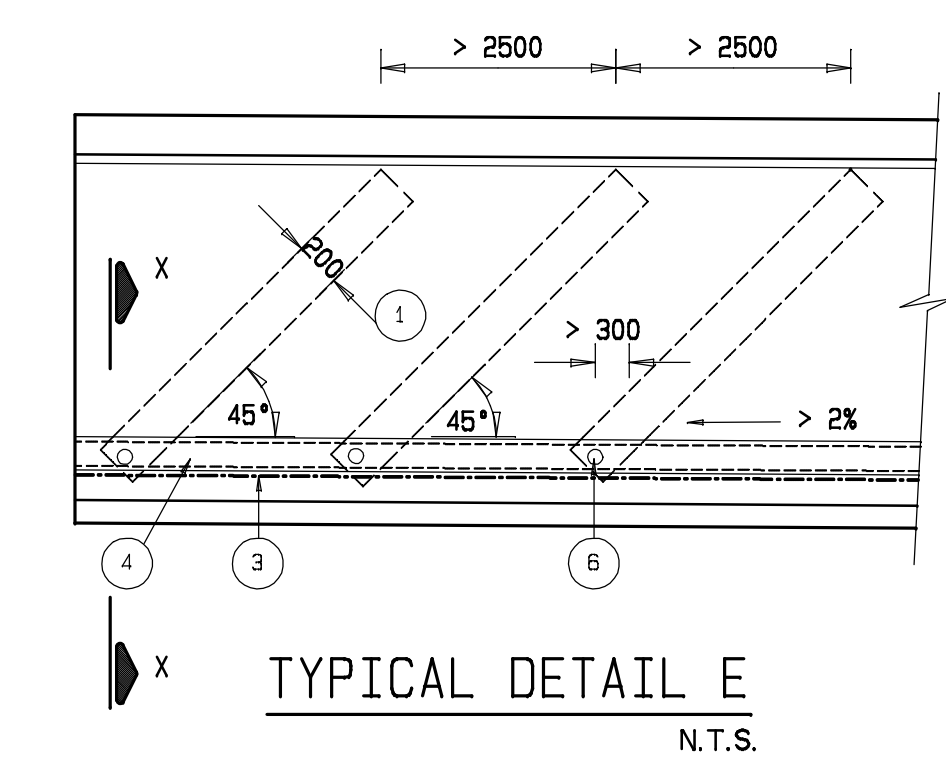


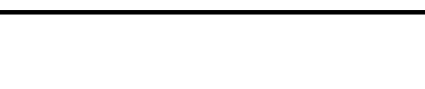
NOTE: JOINING NEW CONCRETE TO OLD

- 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		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 this 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. All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the engineer. Copyright reserved	DESIGNED BY		CONSULTANT APPROVAL		HEAD OFFICE 48 Tambotse Avenue Val de Grace Pretoria 0184 PO Box 415 PRETORIA 0001 South Africa Tel: (012) 844 8000	 SOUTH AFRICAN NATIONAL ROADS AGENCY LTD BUILDING SOUTH AFRICA THROUGH BETTER ROADS	NORTHERN REGION 38 Ida Street Menlo Park Pretoria 00811 Private Bag X17 Lynnwood Ridge 0040 Tel: (012) 426 6200	ACCEPTANCE		REHABILITATION OF NATIONAL ROUTE 11 SECTION 13 FROM R518 INTERSECTION(km 8.340) TO GROOTSANDSLOOT RIVER (km 24.280) NEW 1/2.40 x 1.20m CULVERT AT km 9.987 398 GENERAL DETAILS SCALE: AS SHOWN SHEET 3 OF 4	PROJECT NUMBER DRAWING LOCATION DATA		NRA N 011-130-2010/1	
		WORKS CONTRACT ENGINEER		CHECKED BY			Name		Name					ROUTE			N11		N11	
		Name		Name			Prof. Reg. No.		Prof. Reg. No.					SECTION			13		13	
		Prof. Reg. No.		Prof. Reg. No.			Date		Date					DRAWING km DISTANCE			9.987		9.987	
		Date		Date										DRAWING TYPE			STRUCTURES - CULVERTS			
		SANRAL PROJECT MANAGER		DRAWN BY										BRIDGE/STRUCTURE No.						
		Name		Name										CONSULTANT DRAWING No.			251020-PP0-MC11-03		VER 1	
		Date		Date										SANRAL DOC #						
No.	DATE	REVISION	CONSULT. ENG.																	

SCALE FOR REDUCED PLAN
50m
25m
100mm ON ORIGINAL PLAN