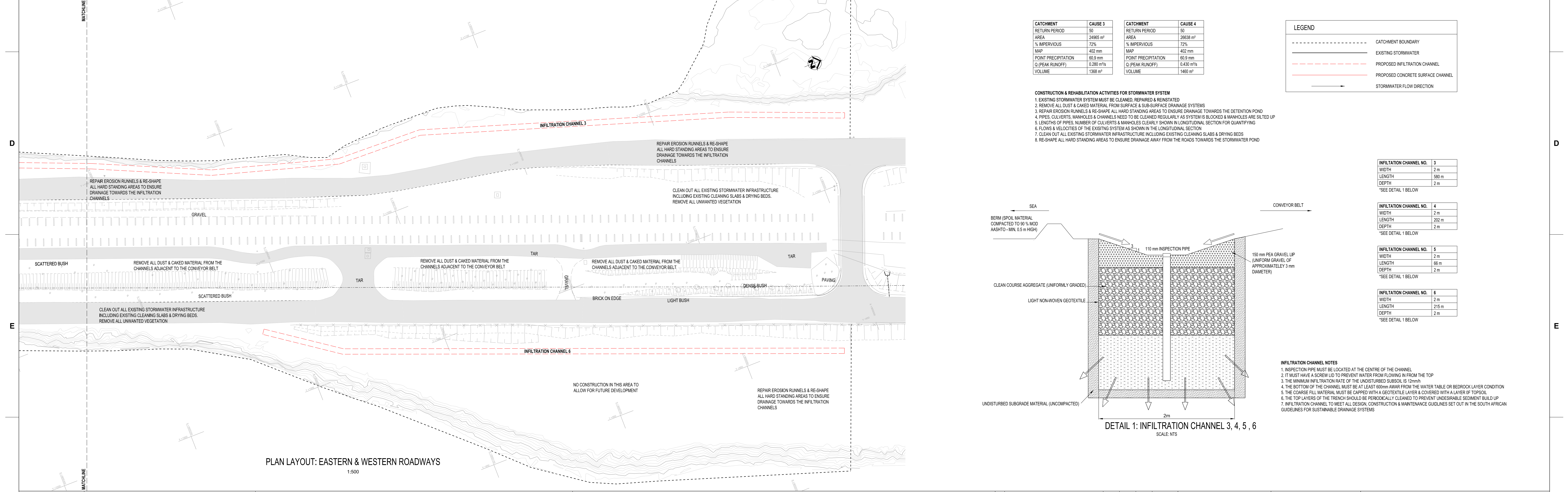


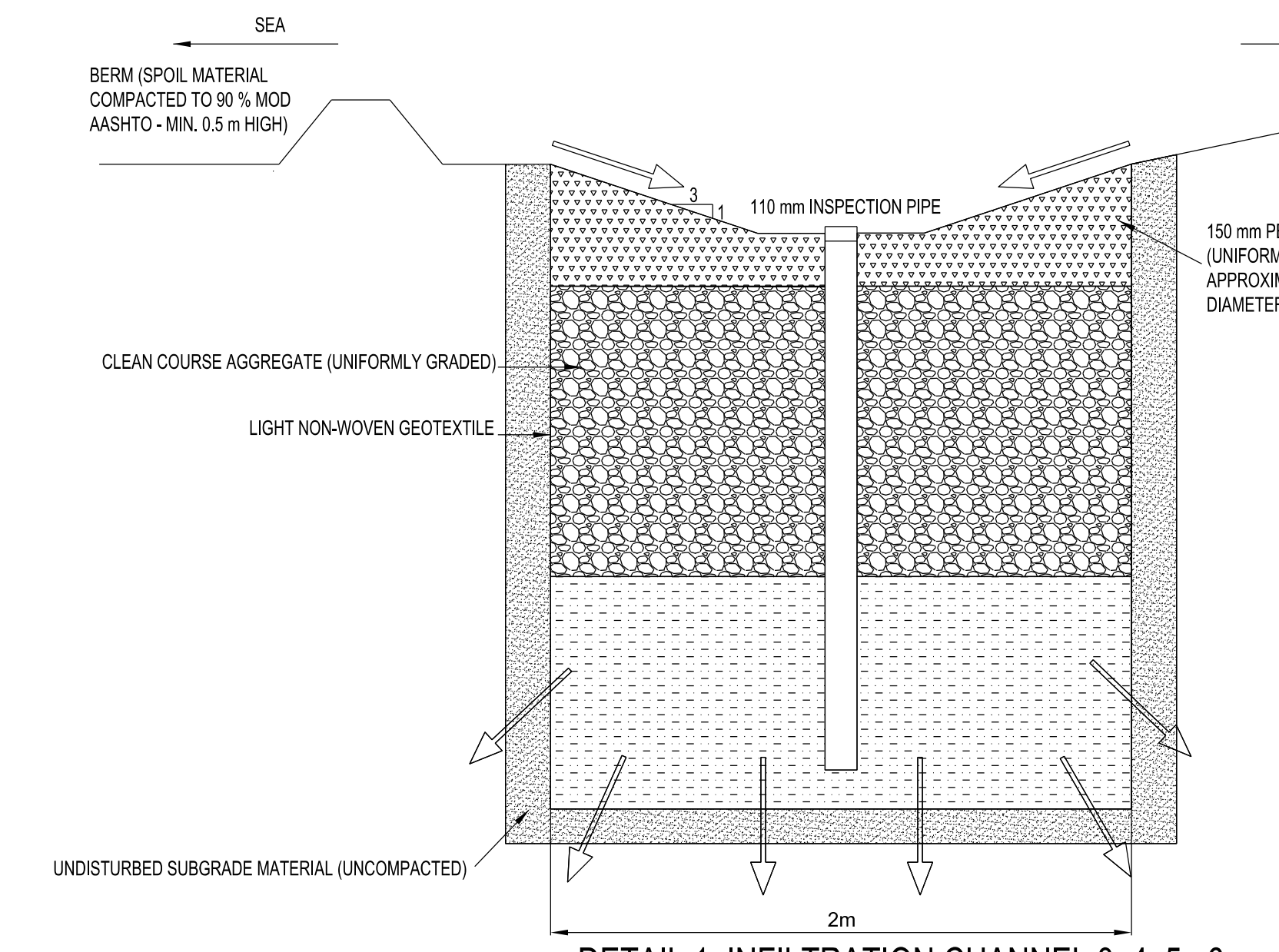
PLAN LAYOUT: EASTERN & WESTERN ROADWAYS  
1:500



PLAN LAYOUT: EASTERN & WESTERN ROADWAYS  
1:500

CATCHMENT	CAUSE 3	CATCHMENT	CAUSE 4
RETURN PERIOD	50	RETURN PERIOD	50
AREA	24905 m <sup>2</sup>	AREA	26038 m <sup>2</sup>
% IMPERVIOUS	72%	% IMPERVIOUS	72%
MAP	402 mm	MAP	402 mm
POINT PRECIPITATION	60.9 mm	POINT PRECIPITATION	60.9 mm
Q (PEAK RUNOFF)	0.280 m <sup>3</sup> /s	Q (PEAK RUNOFF)	0.430 m <sup>3</sup> /s
VOLUME	1368 m <sup>3</sup>	VOLUME	1480 m <sup>3</sup>

- CONSTRUCTION & REHABILITATION ACTIVITIES FOR STORMWATER SYSTEM**
- EXISTING STORMWATER SYSTEM MUST BE CLEANED, REPAIRED & REINSTITATED
  - REMOVE ALL DUST & CAKED MATERIAL FROM SURFACE & SUB-SURFACE DRAINAGE SYSTEMS
  - REPAIR EROSION RUNNELS & RE-SHAPE ALL HARD STANDING AREAS TO ENSURE DRAINAGE TOWARDS THE DETENTION POND
  - PIPES, CULVERTS, MANHOLES & CHANNELS NEED TO BE CLEANED REGULARLY AS SYSTEM IS BLOCKED & MANHOLES ARE SILENT UP
  - LENGTHS OF PIPES, NUMBER OF CULVERTS & MANHOLES CLEARLY SHOWN IN LONGITUDINAL SECTION FOR QUANTIFYING
  - FLOWS & VELOCITIES OF THE EXISTING SYSTEM AS SHOWN IN THE LONGITUDINAL SECTION
  - CLEAN OUT ALL EXISTING STORMWATER INFRASTRUCTURE INCLUDING EXISTING CLEANING SLABS & DRYING BEDS
  - RE-SHAPE ALL HARD STANDING AREAS TO ENSURE DRAINAGE AWAY FROM THE ROADS TOWARDS THE STORMWATER POND



DETAIL 1: INFILTRATION CHANNEL 3, 4, 5, 6  
SCALE: NTS

INFILTRATION CHANNEL NO.	3	4	5	6
WIDTH	2 m	2 m	2 m	2 m
LENGTH	580 m	202 m	66 m	215 m
DEPTH	2 m	2 m	2 m	2 m
*SEE DETAIL 1 BELOW				

- INFILTRATION CHANNEL NOTES**
- INSPECTION PIPE MUST BE LOCATED AT THE CENTRE OF THE CHANNEL
  - IT MUST HAVE A SCREW LID TO PREVENT WATER FROM FLOWING IN FROM THE TOP
  - THE MINIMUM INFILTRATION RATE OF THE UNDISTURBED SUBSOIL IS 10mm/h
  - THE BOTTOM OF THE CHANNEL MUST BE AT LEAST 600mm AWAY FROM THE WATER TABLE OR BEDROCK LAYER CONDITION
  - THE COARSE FILL MATERIAL MUST BE COVERED WITH A GEOTEXTILE LAYER & COVERED WITH A LAYER OF TOPSOIL
  - THE TOP LAYERS OF THE TRENCH SHOULD BE PERIODICALLY CLEANED TO PREVENT UNDESIRABLE SEDIMENT BUILD UP
  - INFILTRATION CHANNEL TO MEET ALL DESIGN, CONSTRUCTION & MAINTENANCE GUIDELINES SET OUT IN THE SOUTH AFRICAN GUIDELINES FOR SUSTAINABLE DRAINAGE SYSTEMS

- NOTES**
- DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
  - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE
1	
2	
3	
4	
5	
6	
7	
8	

CONTRACTOR / CONSULTANT				TRANSNET CAPITAL PROJECTS			
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				DRAWN	DJ		13 12 17
				CHECKED	CN		13 12 17
				DESIGNED	DJ		13 12 17
				CHECKED	CN		13 12 17
OPERATING DIVISIONS				PR. ENG. / PR. TECH. / PR. ARCH			
TITLE	NAME	SIGN	DATE	NAME	SIGNATURE	DATE	
						13 12 17	
ISSUED FOR TENDER				REG. NUMBER			
NO.	DESCRIPTION	BY	CHKD	APPD	DATE		
<b>REVISIONS</b>							
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**SALDANHA STORMWATER MANAGEMENT**

**CAUSEWAY AREA  
 PLAN LAYOUT  
 CATCHMENT AREA 3 & 4**

PROJECT NUMBER: AO 12 2 6 5 1 | 2 | 0 0 1 | C | L | A | 0 0 0 6 | 0 4 | 0 A | DJ