

**NOTES:**

- ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.
- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- DETAILS REFLECT STORMWATER PIPES ONLY. FOR ALL OTHER SERVICES, REFER TO RELEVANT AUTHORITY TECHNICAL REQUIREMENTS.
- PROVIDE MINIMUM COVER TO PIPES IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
- GEOTEXTILE FABRIC TO COMPLY WITH STANDARD SPECIFICATION FOR SUBDIVISIONS. LAY GEOTEXTILE FABRIC CONTINUOUSLY. PROVIDE MINIMUM LAP LENGTHS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. GEOTEXTILE FABRIC MAY BE OMITTED IN ROCK, WHERE APPROVED BY CERTIFYING ENGINEER.
- WHERE THE TRENCH OR EMBANKMENT IS LOCATED, OR WILL BE LOCATED, BENEATH A PAVEMENT:
  - BACKFILL AROUND THE PIPE FOR THE FULL WIDTH OF THE TRENCH AND FOR A MINIMUM 300mm ABOVE THE TOP OF THE PIPE, OR TO SUBGRADE SURFACE IF LESS WITH TYPE C FILL.
  - BACKFILL REMAINDER OF THE TRENCH TO SUBGRADE SURFACE WITH TYPE B FILL. ENSURE MINIMUM LAYER THICKNESS OF 100mm.
  - STABILISE ALL BACK FILL WITH 2% CEMENT BY MASS AND COMPACT TO 95% RELATIVE COMPACTION.
- FLOWABLE FILL MAY BE USED AS AN ALTERNATIVE BACKFILL, WHERE APPROVED BY THE RELEVANT AUTHORITY.
- TRENCHING MUST ONLY BE USED FOR EXISTING ROAD CROSSINGS WHERE APPROVAL IS OBTAINED FROM THE RELEVANT AUTHORITY.
- GEOTEXTILE WRAPPED BEDDING MATERIAL MAY BE EXTENDED TO SUBGRADE SURFACE WHERE DESIRABLE (e.g. HIGH GROUND WATER AREAS).

**PIPE SETOUT TABLE**

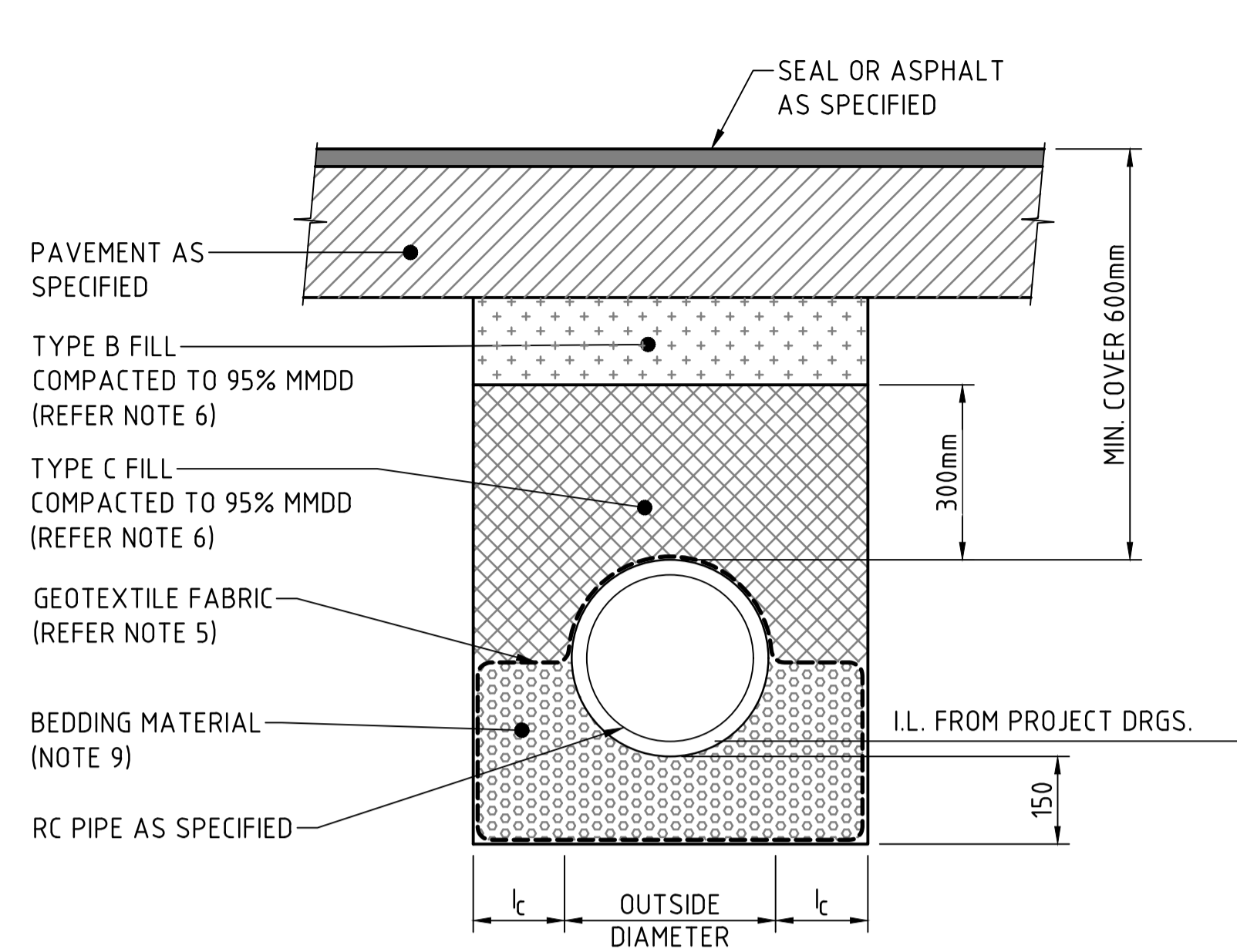
CORRESPONDING PIPE SIZES	
RANGE OF PIPE SIZES	BACK OF KERB OFFSET TO PIPE C.L.
375 AND 450	240 BEHIND
525 TO 750	110 BEHIND
825 TO 1200	150 IN FRONT
1350 TO 1650	375 IN FRONT
1800 TO 2100	675 IN FRONT

**TRENCH WIDTH PARAMETERS TABLE**

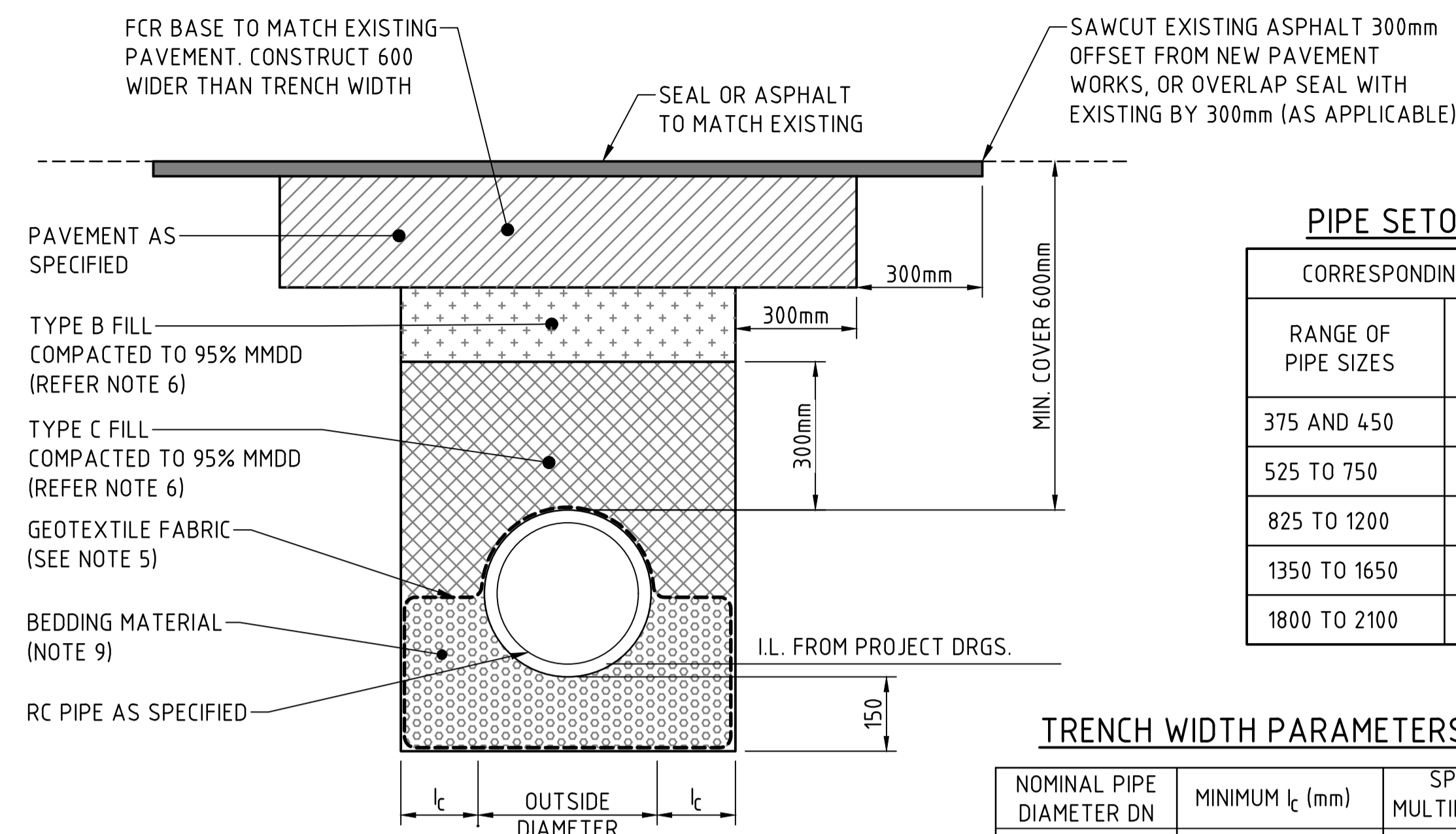
NOMINAL PIPE DIAMETER DN	MINIMUM $t_c$ (mm)	SPACING BETWEEN MULTIPLE CULVERTS (mm)
≤600	150	300
600-1200	200	600
1200-1800	D/6	600
>1800	D/6	900

**TABLE NOTES:**

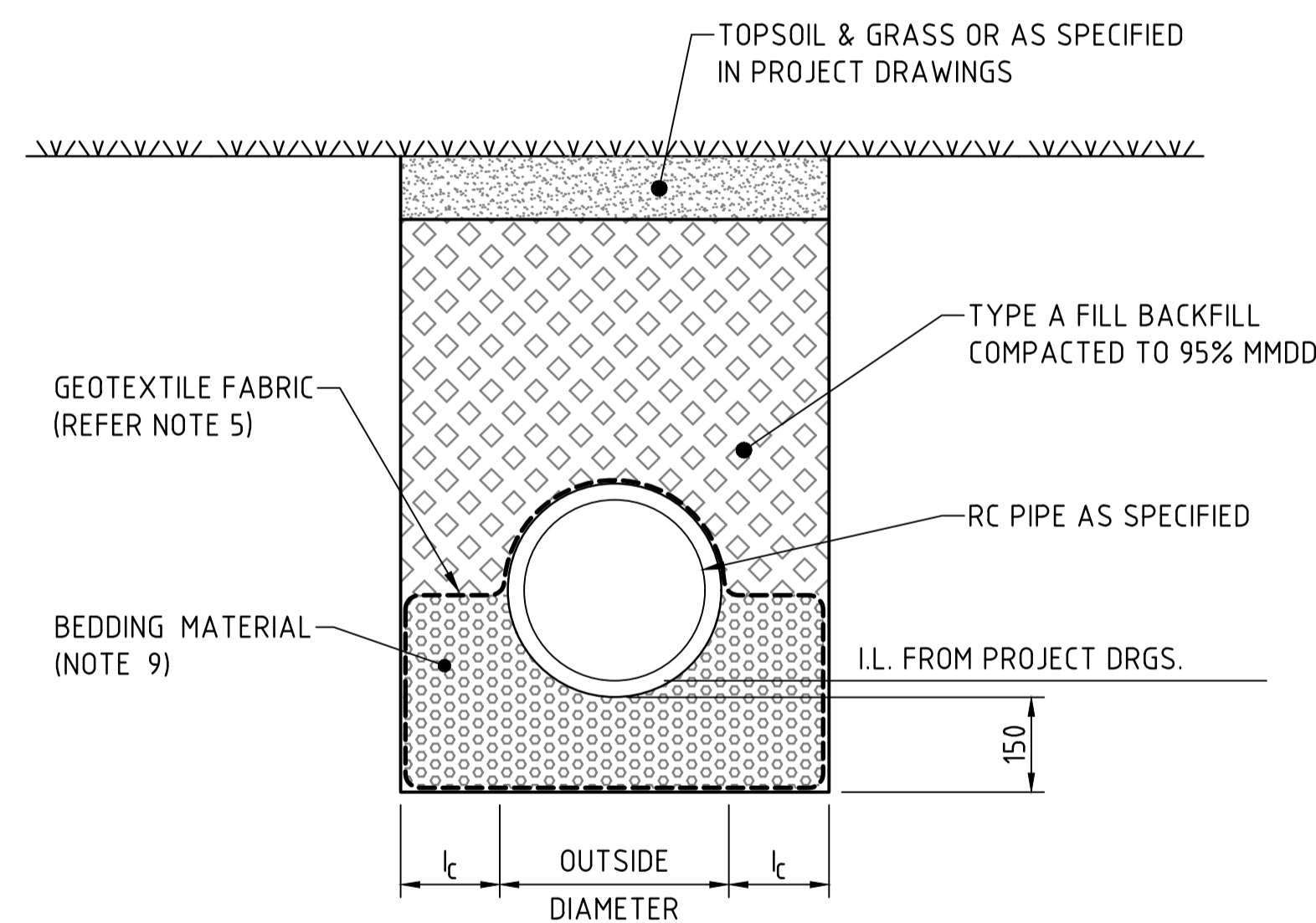
- THE MINIMUM VALUES SHOULD ONLY BE USED WHEN NECESSARY COMPACTION BETWEEN THE PIPES CAN BE ASSURED.
- MINIMUM VALUES MAY NEED TO BE INCREASED FOR RUBBER RING JOINT PIPES TO ENSURE MIN. 50mm SEPARATION BETWEEN SOCKETS.



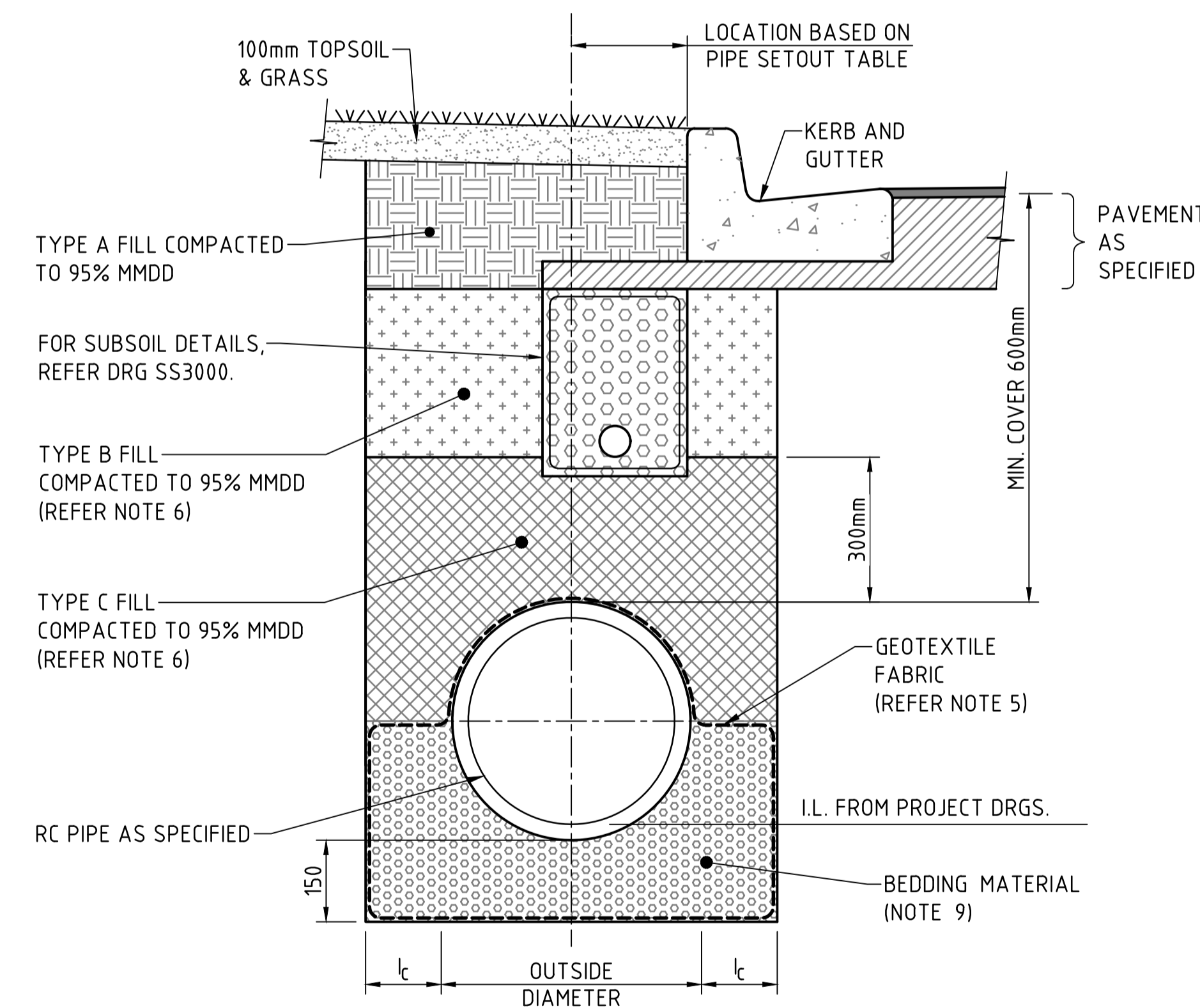
**NEW ROAD CROSSING**  
NOT TO SCALE



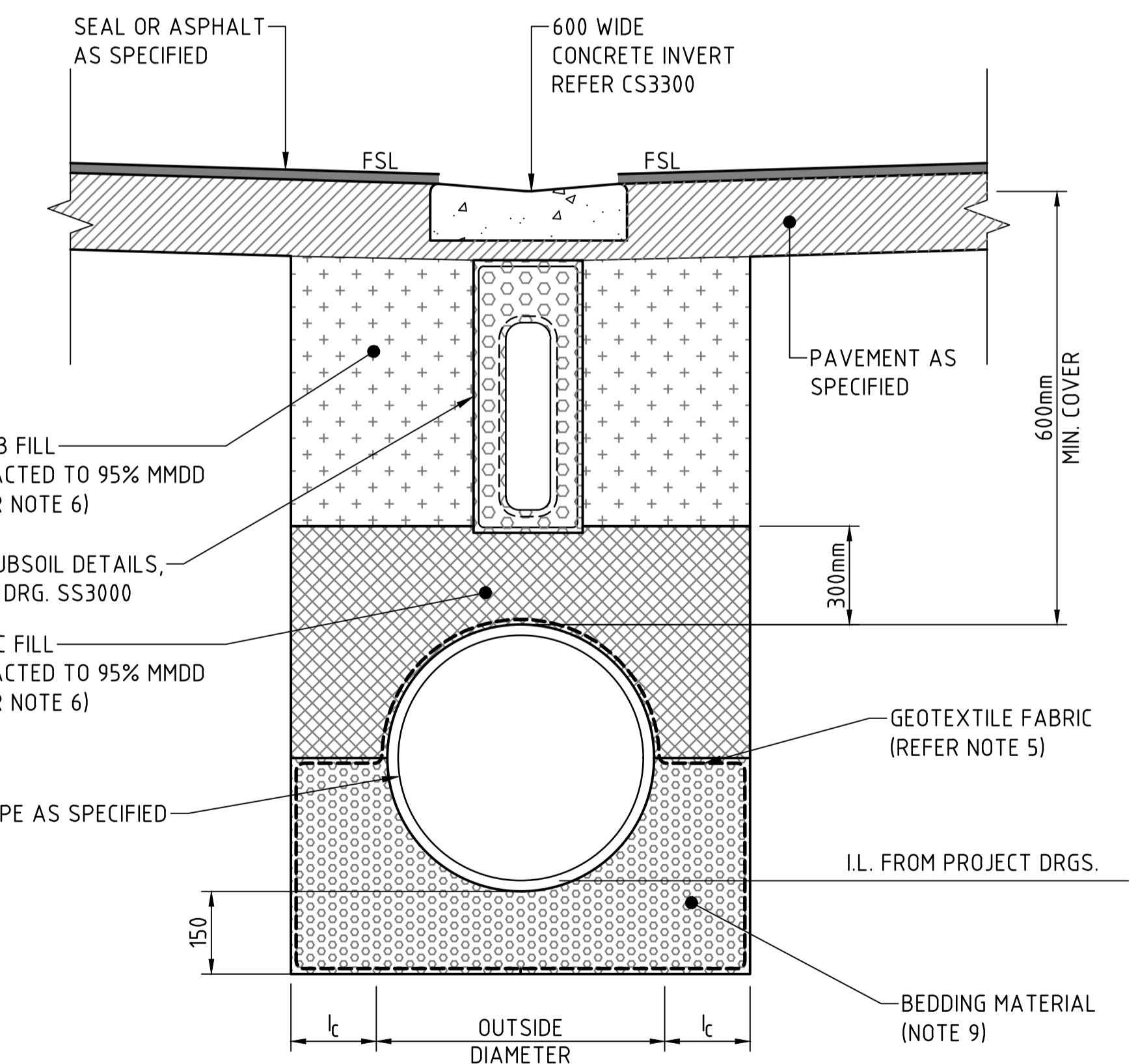
**EXISTING ROAD CROSSING**  
NOT TO SCALE  
(REFER NOTE 8)



**NON TRAFFICABLE AREAS**  
NOT TO SCALE



**ROADSIDE**  
NOT TO SCALE



**PIPE BENEATH INVERT**  
NOT TO SCALE

No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
2	RE-ISSUED AS A STANDARD DRAWING	JUNE 24	JCM	BYRNE
1	RE-ISSUED AS A STANDARD DRAWING	APR 23	KS	BYRNE
0	ISSUED AS A STANDARD DRAWING	AUG 20	KS	BYRNE

Drawn <b>KS</b> Date: AUGUST 2020	Checked <b>PB</b> Date: AUGUST 2020
Designed <b>PB</b> Date: AUGUST 2020	Checked <b>SPB</b> Date: AUGUST 2020
Design Project Leader <b>SPB</b> Date: AUGUST 2020	NTG Project Manager <b>N/A</b> Date: AUGUST 2020



**SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS**  
STORMWATER DRAINAGE

**STORMWATER PIPES**  
TYPICAL TRENCH DETAILS

NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
-	-	1 OF 1	SS3001	2