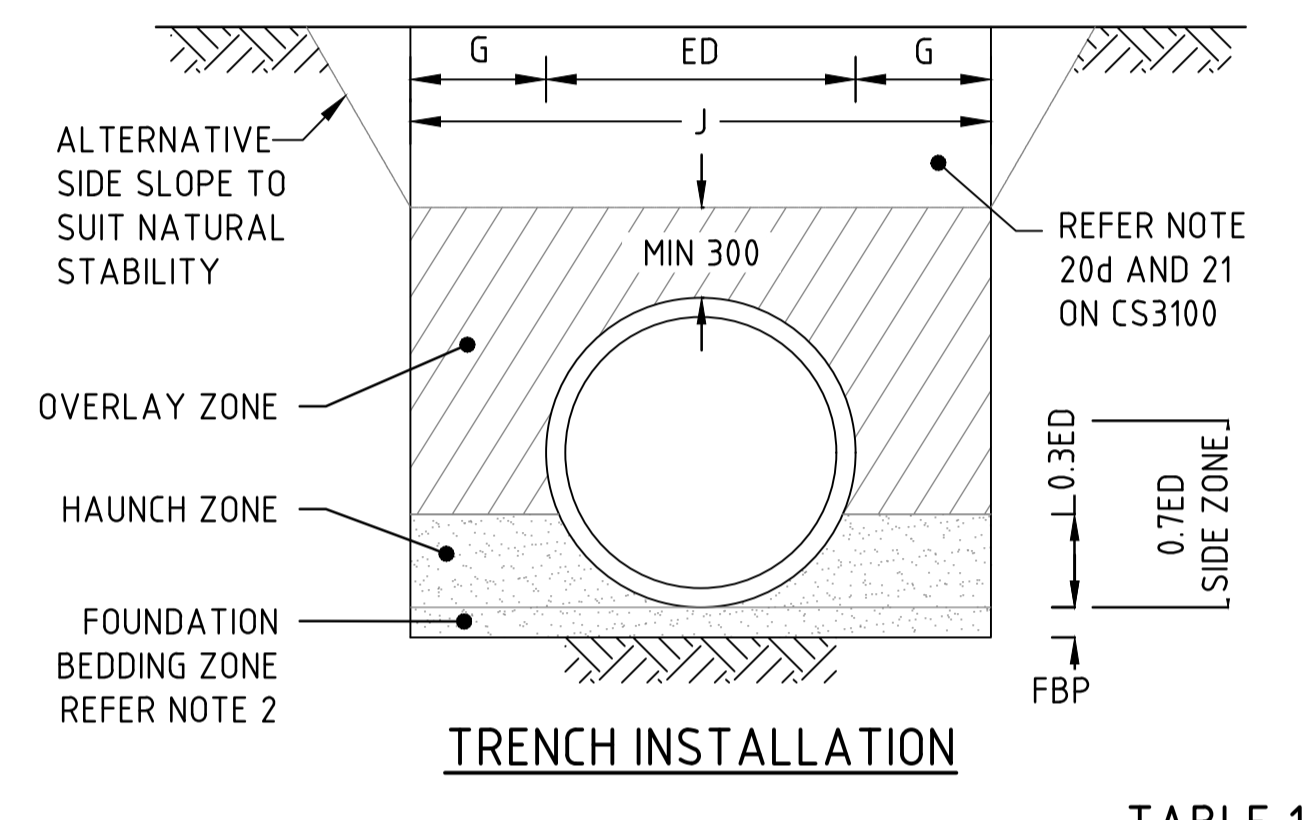
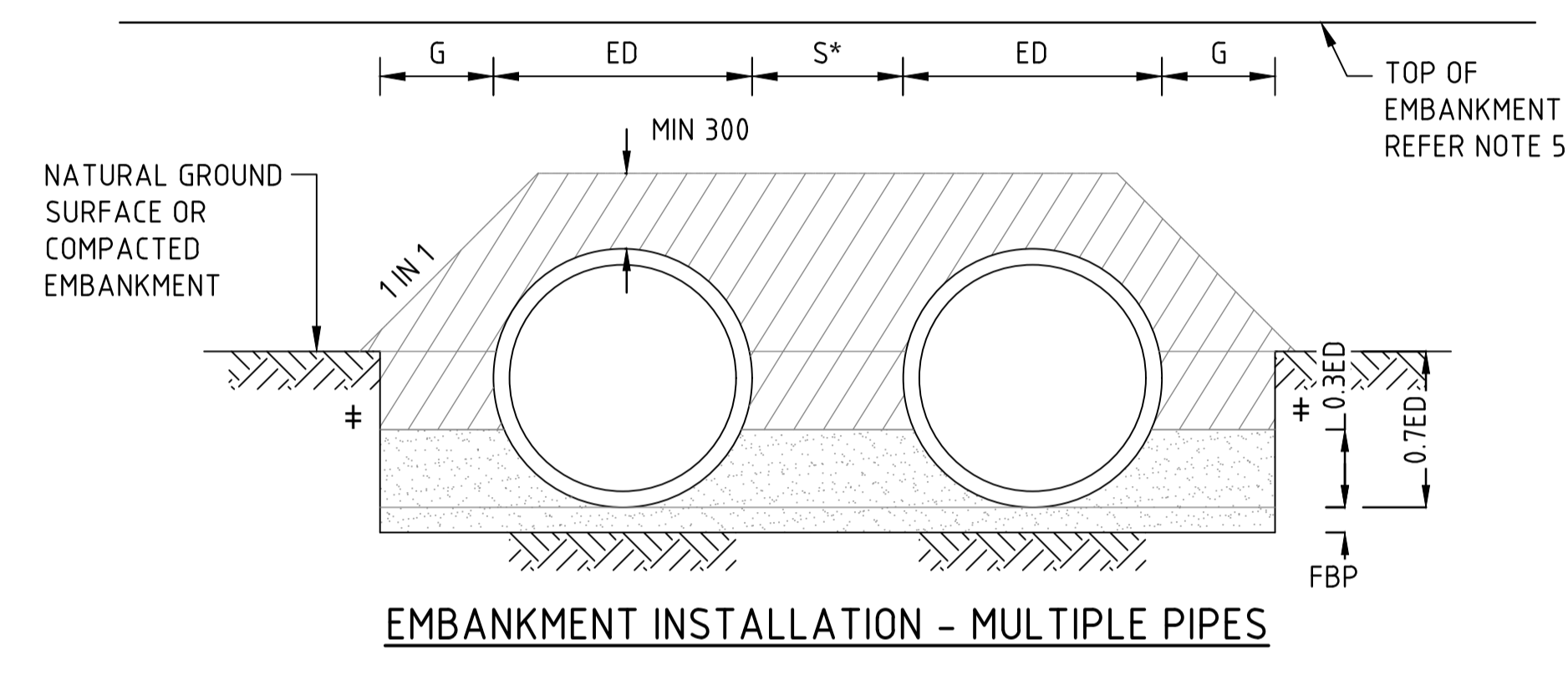
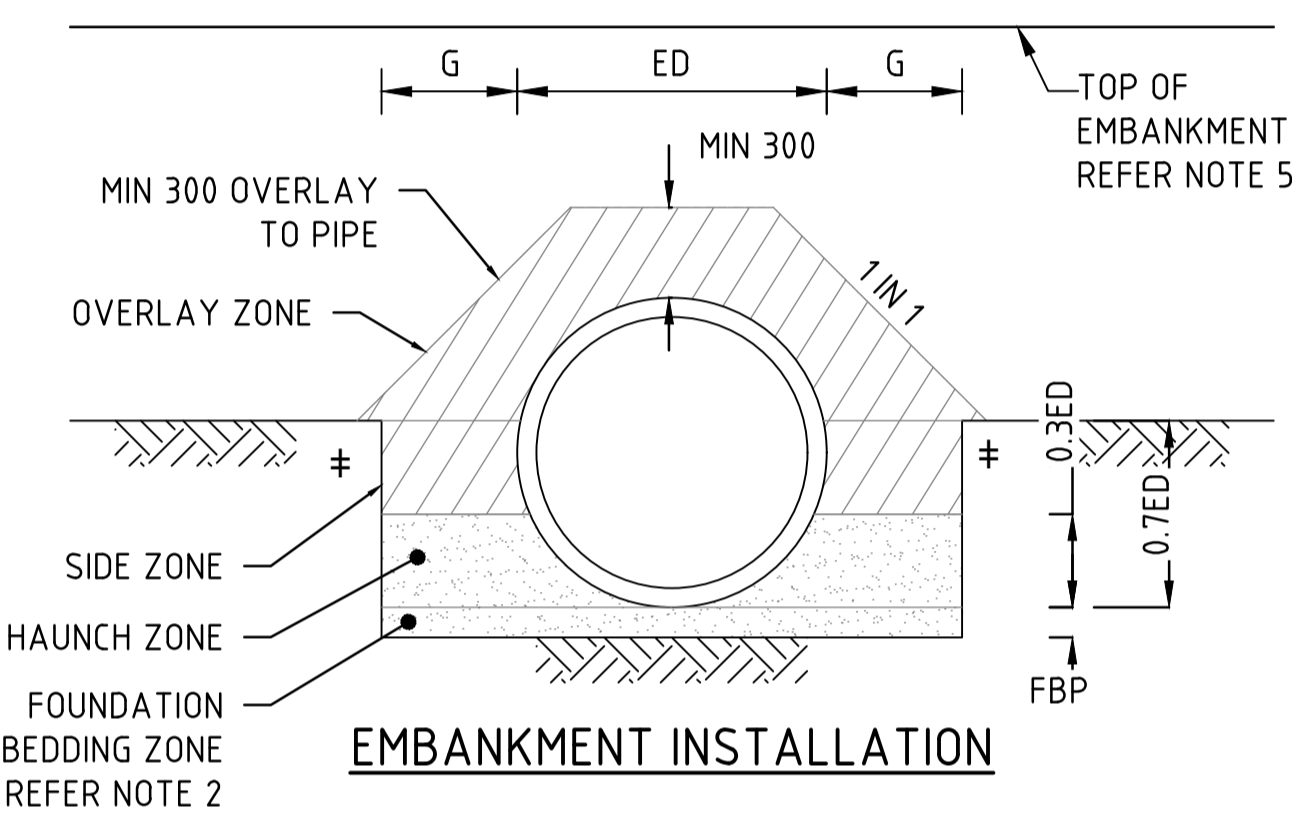


- NOTES:**
- REFER CS3100 FOR GENERAL NOTES AND REFERENCES
 - FBP - FOUNDATION BEDDING FOR REINFORCED CONCRETE PIPES, IN ACCORDANCE WITH SPECIFICATIONS.
 - $D < 1350 - 100\text{mm}$
 - $D \geq 1350 - 150\text{mm}$
 - FBC - FOUNDATION BEDDING FOR REINFORCED CONCRETE BOX CULVERT, IN ACCORDANCE WITH SPECIFICATIONS.
 - FIRM MATERIAL 50mm - 150mm
 - TRENCH WALL COMPACTION OF NATURAL GROUND OR EMBAKMENT MINIMUM 90% STANDARD FOR MINIMUM 'ED' EACH SIDE OF TRENCH WALL AND TO A MINIMUM DEPTH OF 0.7'ED'.
 - WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLE AS PER AS3725-2007. ALLOWANCE FOR CONSTRUCTION LOADS SHALL COMPLY WITH DEPARTMENT'S STANDARD SPECIFICATION FOR ROADWORK.
 - PIPE SUPPORT TYPES IN ACCORDANCE WITH AS 3725-2007.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

TYPE H2 SUPPORT FOR CONCRETE PIPES

- LEGEND:**
- BACKFILL MATERIAL (REFER NOTES 20, ON CS3100) [Hatched pattern]
 - FOUNDATION/BEDDING/HAUNCH MATERIAL [Dotted pattern]

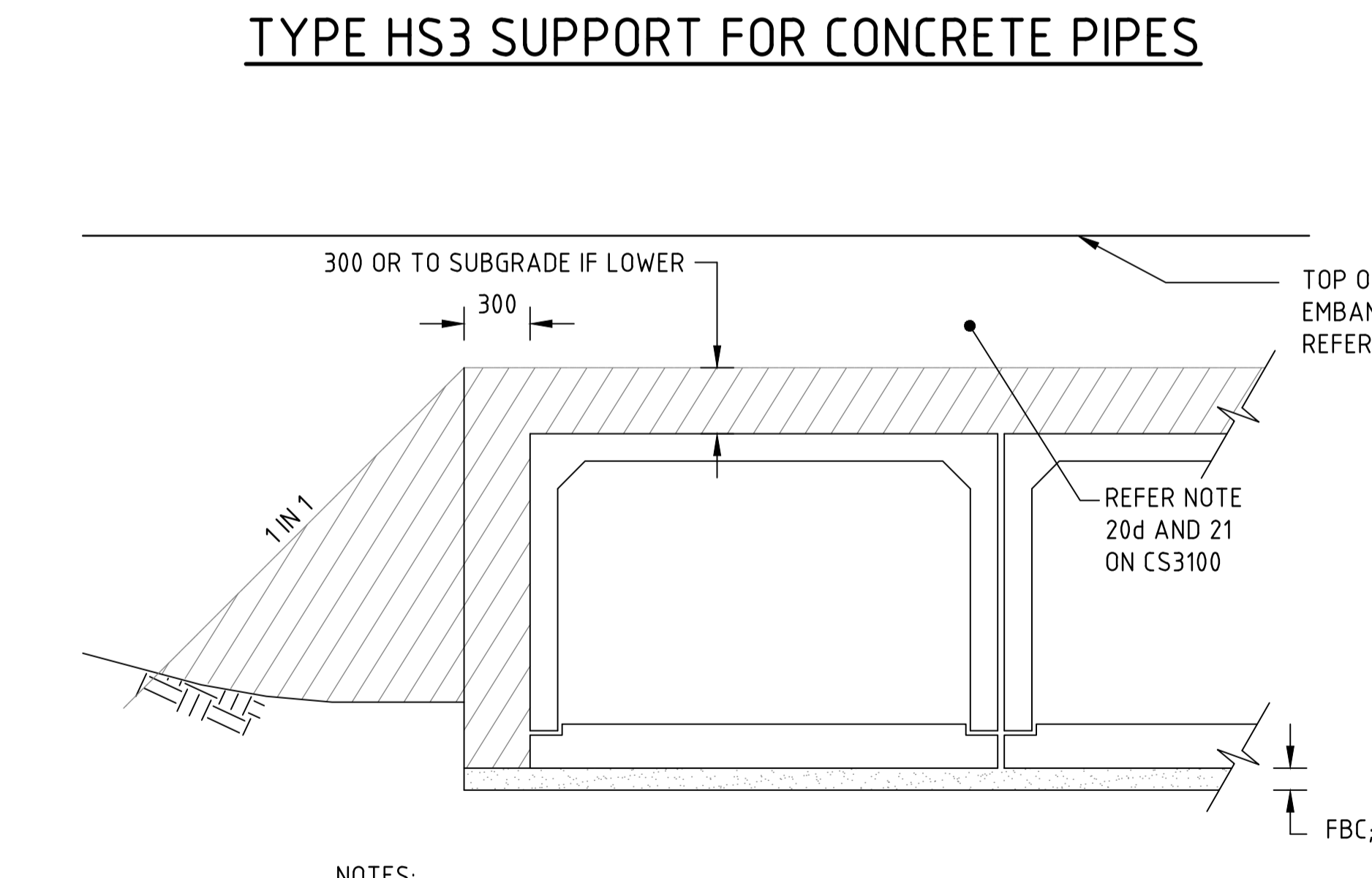
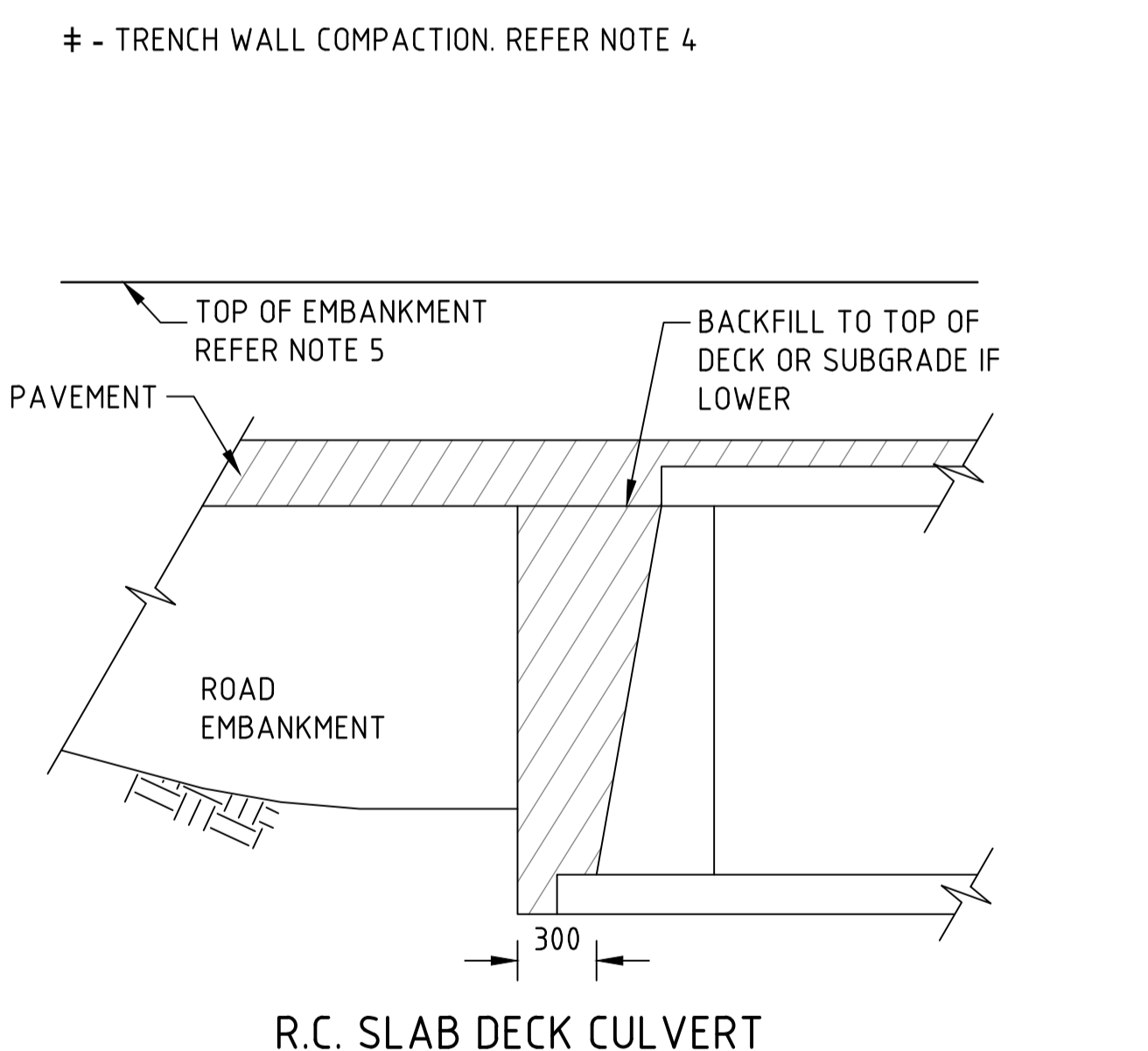


TYPE HS3 SUPPORT FOR CONCRETE PIPES

TABLE 1: EMBAKMENT & TRENCH DIMENSIONS - RCP

NOMINAL INTERNAL DIAMETER [D] (mm)	NOMINAL EXTERNAL DIAMETER [ED] ¹ (mm)	MINIMUM WIDTH [G] (mm)	HAUNCH DEPTH (0.3 x ED mm)	MAXIMUM ALLOWABLE WIDTH [J] (m) TRENCH INSTALLATION	SPACING BETWEEN MULTIPLE PIPES [S*] (mm)
300	362	300	110	1.1	300
375	445	300	135	1.2	300
450	534	300	165	1.3	300
525	616	300	185	1.5	300
600	698	300	210	1.6	300
750	864	450	260	1.8	600
900	1029	450	310	1.9	600
1050	1194	450	360	2.1	600
1200	1359	450	410	2.2	600
1350	1524	450	460	2.4	600
1500	1676	500	505	2.7	600
1650	1842	500	555	2.9	600
1800	2006	500	605	3.1	600
1950	2198	500	660	3.3	900

1. NOMINAL EXTERNAL DIAMETER IS PROVIDED FOR INFORMATION ONLY AND TO ASSIST SETOUT OF DIMENSIONS MENTIONED IN THIS STANDARD DRAWING. IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER / CONTRACTOR TO CONFIRM THE EXTERNAL DIAMETER WITH THE MANUFACTURERS.



- NOTES:**
- THE SAME BACKFILL DETAILS APPLY FOR R.C.B.C. CROWN UNITS ON A CAST IN SITU BASE SLAB. HOWEVER, BEDDING MATERIALS MAY NOT BE REQUIRED, REFER RELEVANT CULVERT DETAILS SHOWN ELSEWHERE IN THIS STANDARD DRAWING SERIES.
 - WHERE SAND IS USED FOR THE "FBC" PROVIDE "DAMP PROOF MEMBRANE" TO ASSIST IN SEATING REINFORCEMENT CHAIRS & REINFORCEMENT.

PRECAST R.C. BOX CULVERT

THIS DRAWING IS DERIVED FROM QUEENSLAND MAIN ROADS STANDARD DRAWING 1359 AND ADOPTED FOR NT CONDITIONS.

No.	DESCRIPTION	DATE	NAME	DEPT./COMPANY
1	NOTES & ABBREVIATIONS AMENDED	APR 2023	J. COOK	TCS / DIPL
0	ISSUED AS A STANDARD DRAWING	SEPT 2017	J. LEESON	EES/DIPL
AMENDMENTS				

WARNING
 BEWARE OF UNDERGROUND SERVICES.
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

DRAWN A.R	CHECKED L.Mc
DATE DEC 2012	DATE DEC 2012
DESIGNED	CHECKED
DATE	DATE
DESIGN LEADER S.HATZI	DESIGN DIRECTOR S.JACKSON
DATE 1/09/2017	DATE 1/09/2017



STANDARD DRAWINGS DRAINAGE				
INSTALLATION, BEDDING AND FILLING/BACKFILLING AGAINST/OVER CULVERTS				
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
-	-	1 OF 1	CS3101	1
				SHEET SIZE A1