

- NOTES:
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DTC/1100.
 - GEOTEXTILE LAYER TO MEET CLASS C STRUCTURAL AND CLASS 4 PERMEABILITY PARAMETERS AS DETAILED IN THE TNSW QUALITY SPECIFICATION R67.
 - PRE-CAST CONCRETE CHAMBER DESIGNED TO SM1600 LOADS OF AS 5100.2. DESIGN LOAD FOR PRE-CAST CONCRETE SUPPORT BEAM BASED ON AS3996 - CLASS C RATING FOR FOOTWAY AND CLASS D RATING FOR CARRIAGE-WAY APPLICATIONS.
 - FOUNDATION FOUNDATION CONDITIONS MUST BE TO FOUNDATION NOTES ON DTC/1100.
 - PIPELINE DESIGN BASED ON MAXIMUM DESIGN PRESSURE OF 120m AND TEST PRESSURE OF 150m OF WATER.
 - PRECAST CONCRETE BEAMS DIMENSIONS "L1" AND "L2" TO BE SHOWN ON WAC DRAWINGS.
 - ALL FLANGES MUST BE TO DTC/1145.
 - ALL DI FITTINGS MUST BE COATED TO WITH THERMAL-BONDED POLYMERIC COATING.
 - WHERE PROPRIETARY PRODUCTS ARE SPECIFIED, THE PRODUCTS MUST BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

REFERENCE DRAWINGS:

DTC/1145	WATER MAINS PN16 BURIED FLANGE CONNECTION DETAILS DN100 TO DN750
DTC/1150	STEEL WATER MAINS DN150 TO DN1200 STEEL PIPE JOINTING
DTC/1212	AIR VALVE AND HYDRANT INSTALLATIONS DETAILS WATER MAINS DN375 - DN750

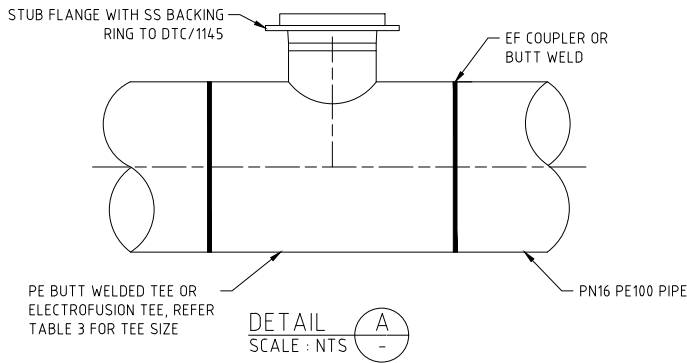
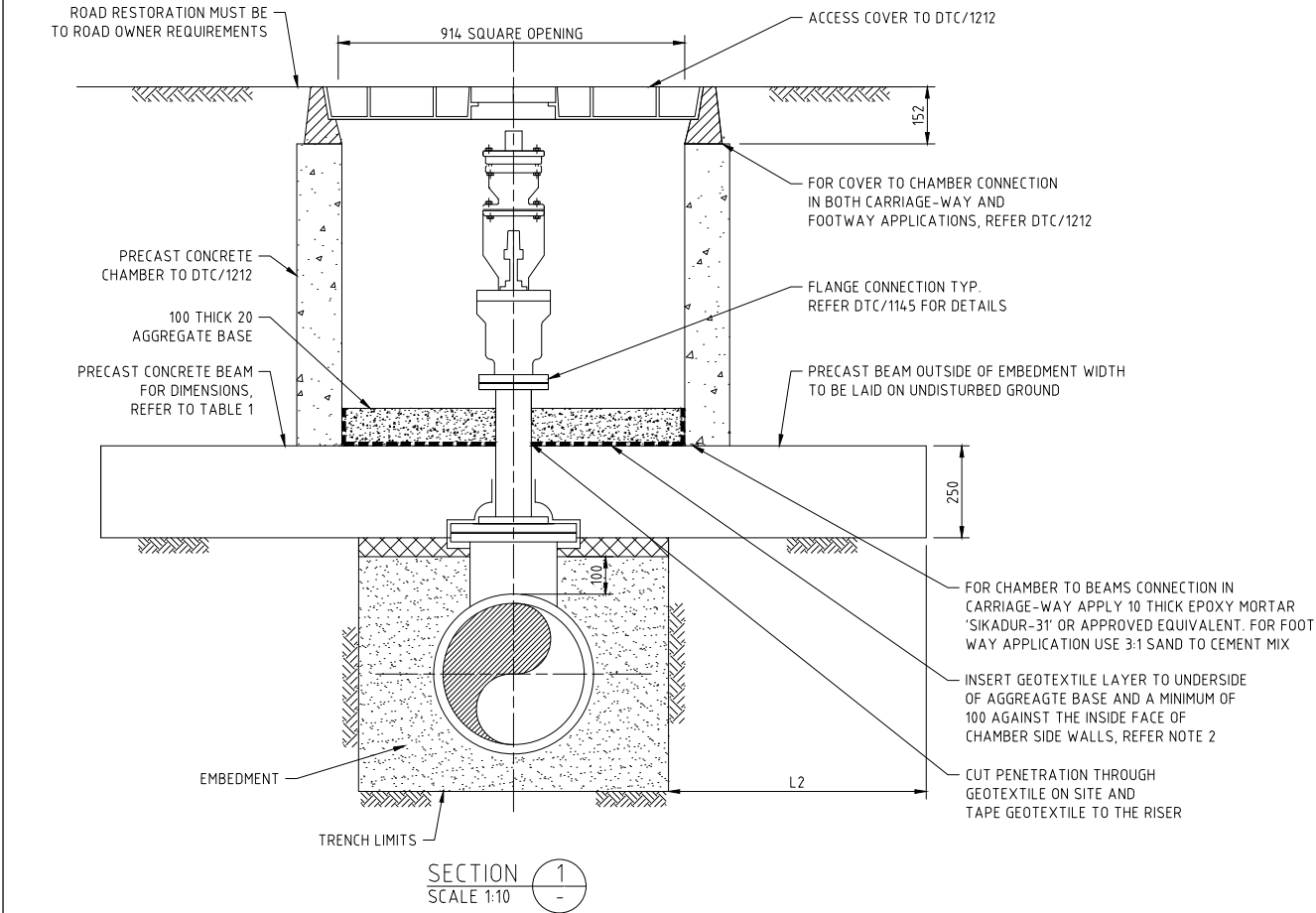


TABLE 2 - DICL TEE SIZE	
MAIN SIZE	BRANCH SIZE
DN375	DN200
DN450	DN250
DN500	DN250
DN600	DN300

TABLE 3 - PE TEE SIZE	
MAIN SIZE	BRANCH SIZE
OD450	OD250
OD560	OD315
OD630	OD315
OD710	OD355

TABLE 1 - PRECAST CONCRETE BEAM SIZE															
	CARRIAGE-WAY									FOOTWAY					
	FIRM TO STIFF ($C_u \geq 50\text{kPa}$) DCP $\geq 9/300\text{mm}$			STIFF ($C_u \geq 75\text{kPa}$) DCP $\geq 12/300\text{mm}$			VERY STIFF ($C_u \geq 150\text{kPa}$) DCP $\geq 18/300\text{mm}$			FIRM TO STIFF ($C_u \geq 50\text{kPa}$) DCP $\geq 9/300\text{mm}$			STIFF ($C_u \geq 75\text{kPa}$) DCP $\geq 12/300\text{mm}$		
FOUNDATION MATERIAL - CLAY															
FOUNDATION MATERIAL - SAND	LOOSE DCP $\geq 5/300\text{mm}$			MEDIUM DENSE DCP $\geq 8/300\text{mm}$			MEDIUM DENSE TO DENSE DCP $\geq 15/300\text{mm}$			LOOSE DCP $\geq 5/300\text{mm}$			MEDIUM DENSE DCP $\geq 8/300\text{mm}$		
	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	MASS (t)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	MASS (t)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	MASS (t)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	MASS (t)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	MASS (t)
DN375	3550	1350	1.00	2200	675	0.62	1550	350	0.44	2500	825	0.70	1700	425	0.48
DN450	3600	1350	1.01	2300	675	0.65	1650	350	0.46	2600	825	0.73	1800	425	0.51
DN500	3900	1350	1.10	2550	675	0.72	1900	350	0.53	2850	825	0.80	2050	425	0.58
DN600	4000	1350	1.13	2650	675	0.75	2000	350	0.56	2950	825	0.83	2150	425	0.60

DYNAMIC CONE PENETRATION TEST (DCP) TO AS1289.6.3.2. INDICATIVE VALUES SHOWN IN TABLE TO CONFIRM SHEAR STRENGTH (C_u) OF CLAYS OR DENSITY OF SANDS. TESTS TO BE CARRIED OUT TO A DEPTH NOT LESS THAN 600mm BELOW PRECAST BEAM FOUNDING LEVEL.

A	ORIGINAL UPDATE	NS	31/07/24		
LETTER	DETAILS OF ISSUE / AMENDMENT		APP'D	DATE	