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THIS DRAWING MAY ONLY BE USED IN THE COURSE OF AND FOR THE PURPOSE OF CREATING SYDNEY WATER ASSETS.
USE THIS DRAWING WITH CARE. THE USER IS RESPONSIBLE FOR THE CORRECT APPLICATION OF THIS DRAWING.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. GEOTEXTILE LAYER TO MEET CLASS C STRUCTURAL AND CLASS 4 PERMEABILITY PARAMETERS AS DETAILED IN THE ROADS AND MARITIME SERVICES QUALITY SPECIFICATION R67.
3. 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.
4. FOUNDATION MATERIALS TO BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO POURING OF THE CONCRETE BASE. ANY OVER- EXCAVATION OR VOIDS IN THE FOUNDATION MATERIALS TO BE FILLED WITH CLASS N15 MASS CONCRETE TO AS 1379.
5. PIPELINE DESIGN BASED ON MAXIMUM DESIGN PRESSURE OF 120m AND TEST PRESSURE OF 150m OF WATER.
6. DESIGN IS NOT SUITABLE FOR APPLICATION IN AGGRESSIVE OR CONTAMINATED SOIL CONDITIONS.
7. TEST PRESSURE IS NOT TO BE APPLIED UNTIL CONCRETE ELEMENTS OF THE DESIGN HAVE REACHED AT LEAST 25MPA STRENGTH.
8. PRECAST CONCRETE BEAMS DIMENSIONS "L1" AND "L2" TO BE SHOWN ON WAC DRAWINGS.
9. ALL FLANGES SHALL BE TO DTC/1145. ALL FASTENERS SHALL BE GRADE 316 STAINLESS STEEL.
10. ALL DI FITTINGS SHALL BE COATED TO AS/NZS 4158.
11. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED, THE PRODUCTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
12. THIS DRAWING SHALL BE READ IN IN CONJUNCTION WITH THE FOLLOWING DEEMED TO COMPLY DRAWINGS.
A) DTC/1145 - PN16 FLANGE CONNECTION DETAILS
B) DTC/1212 - AIR VALVE AND HYDRANT INSTALLATIONS - DETAILS

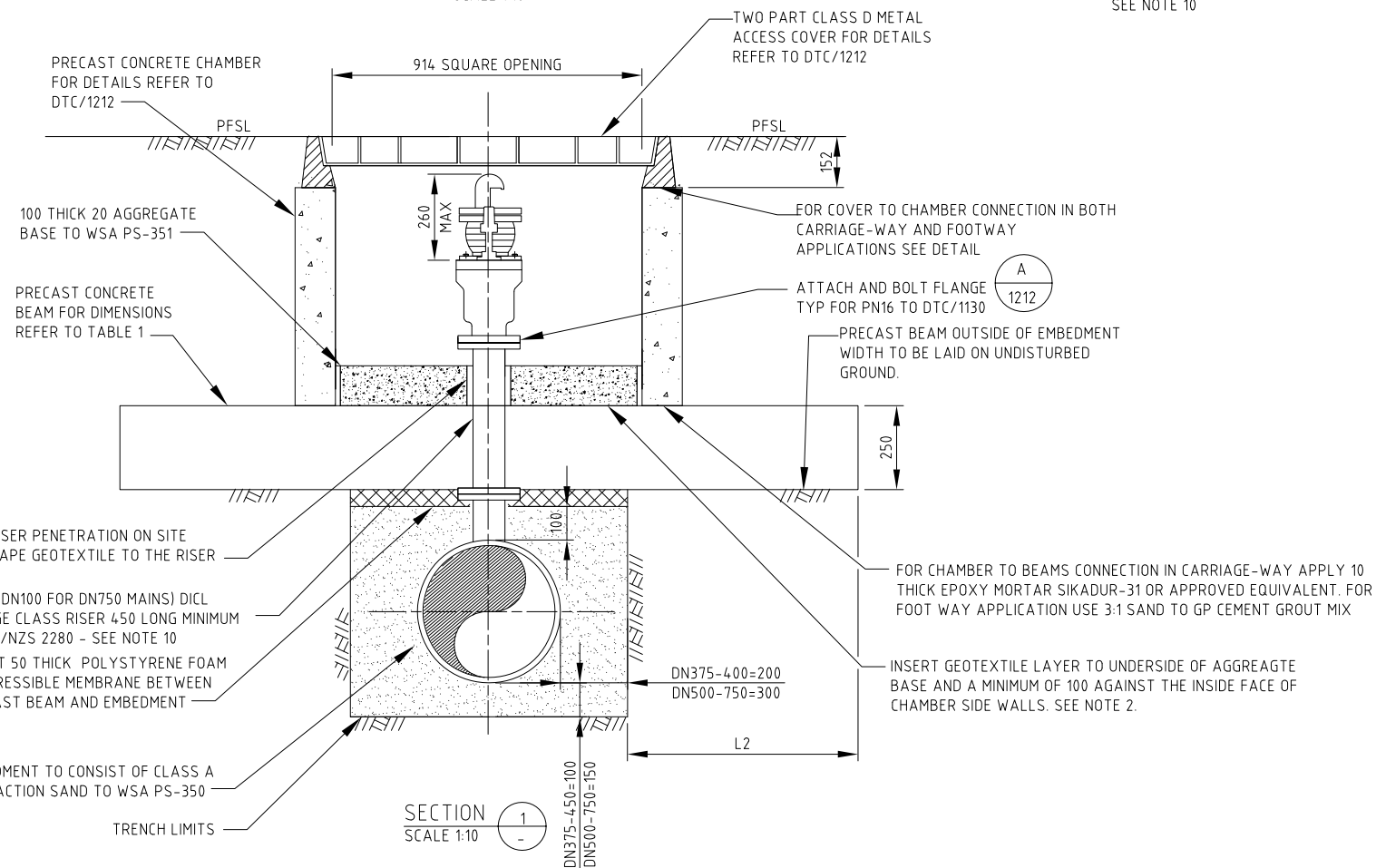
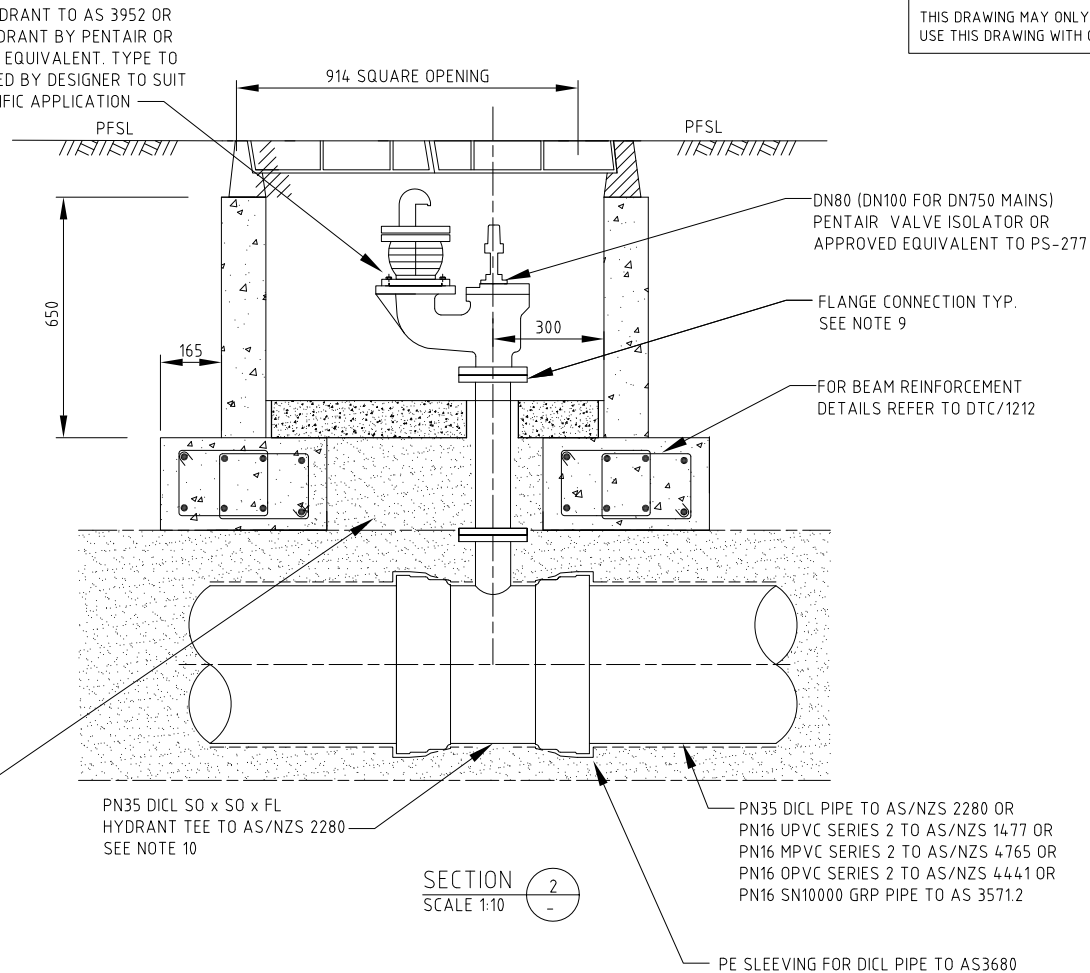
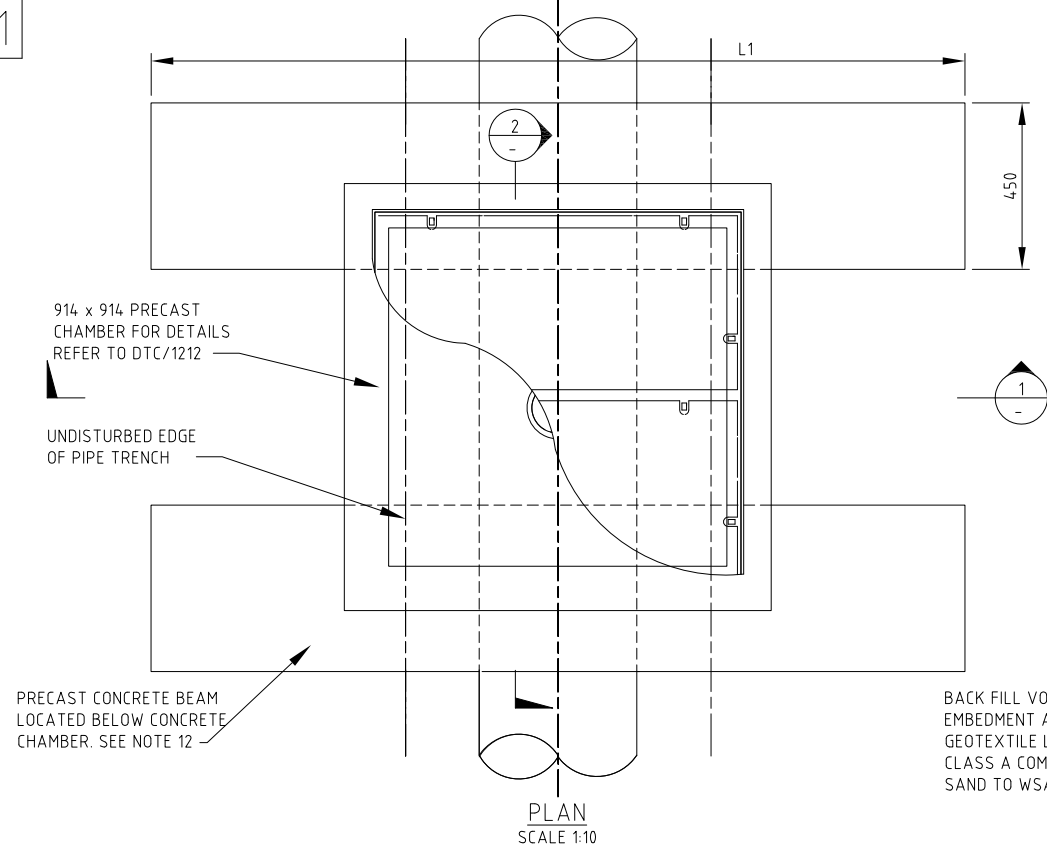


TABLE 1- PRECAST CONCRETE BEAM SIZE

AVBP (kPa)	CARRIAGE-WAY						FOOTWAY			
	>100kPa		>200kPa		>400kPa		>100kPa		>200kPa	
	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)
DN375	3550	1350	2200	675	1550	350	2500	825	1700	425
DN450	3600	1350	2300	675	1650	350	2600	825	1800	425
DN500	3900	1350	2550	675	1900	350	2850	825	2050	425
DN600	4000	1350	2650	675	2000	350	2950	825	2150	425
DN750	4150	1350	2800	675	2150	350	3100	825	2300	425

Sydney WATER

APPROVED

PETER GILLMAN
MANAGER – E & ES

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ENGINEERING & ENVIRONMENTAL SERVICES

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ORIGINAL ISSUE

PJG

01/03/13

DEEMED TO COMPLY DRAWINGS

HYDRANT INSTALLATIONS MAINTENANCE ACCESSIBLE

13	DI, PVC & GRP WATER MAINS DN375 - DN750
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DTC

1206

ISSUE	
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DATE _____

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1/03/13