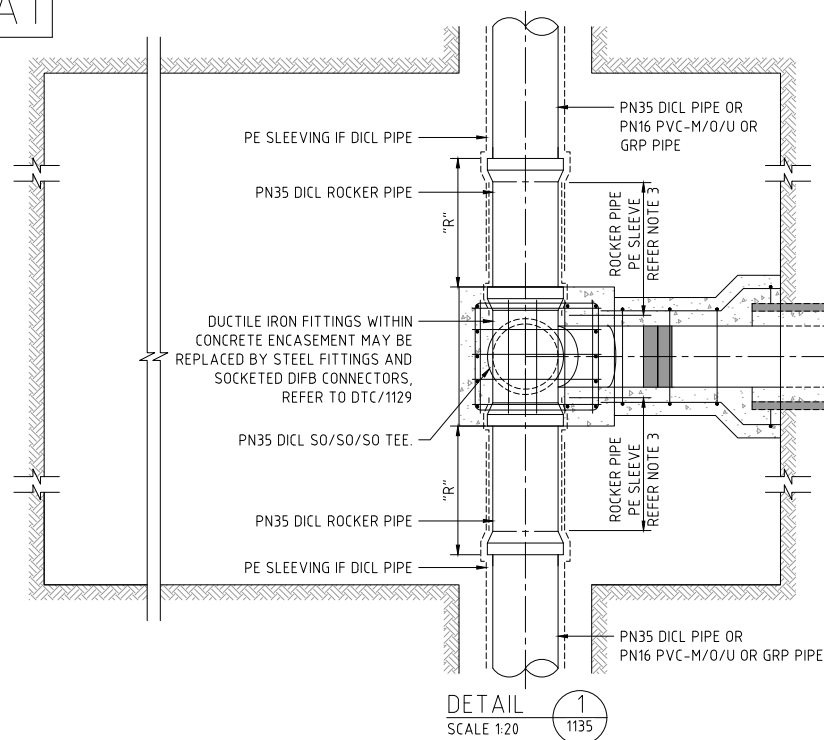
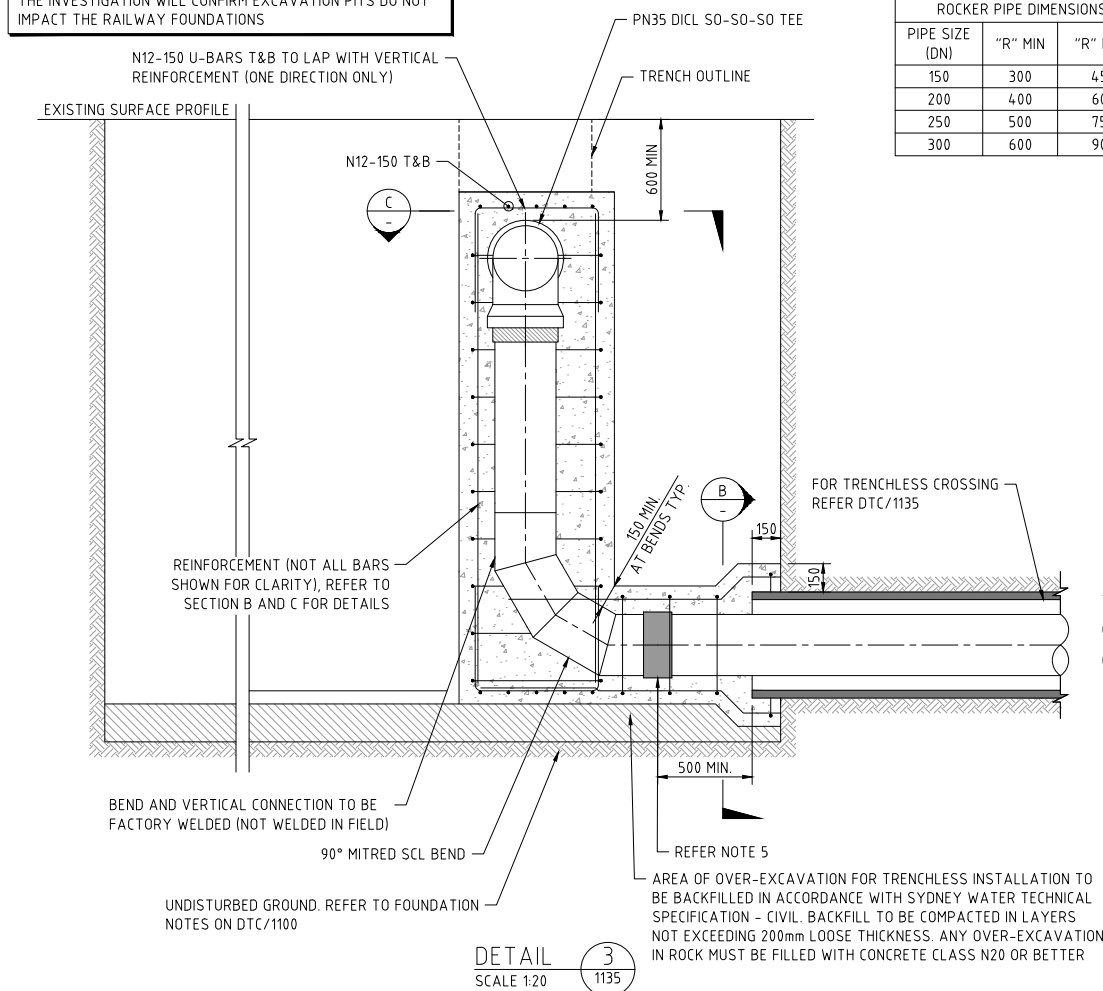


A1

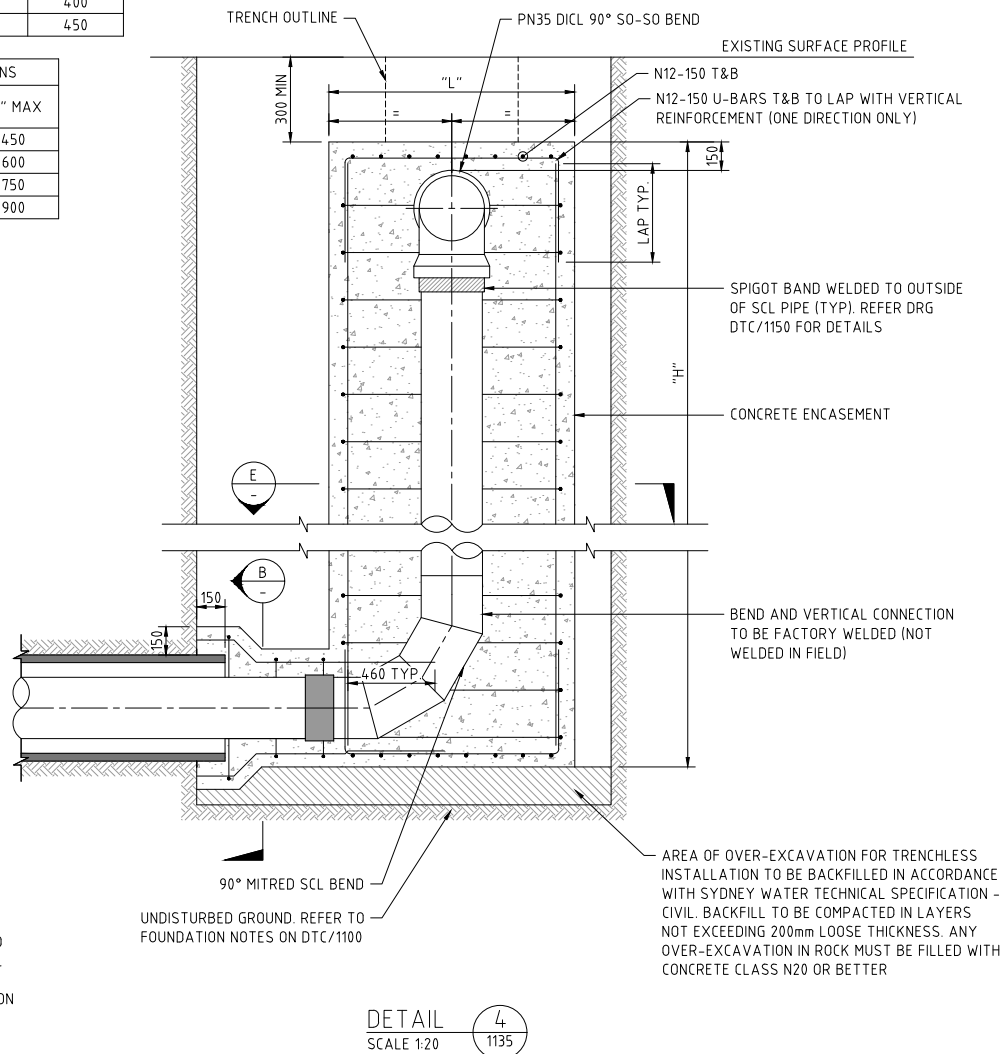
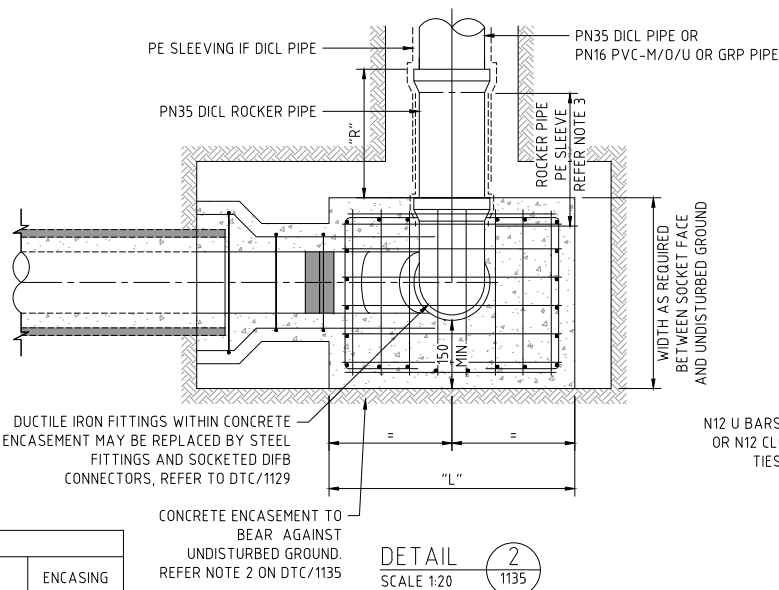


A GEOTECHNICAL INVESTIGATION MUST BE UNDERTAKEN PRIOR TO UNDERTAKING THE WORKS TO DETERMINE SUB-SURFACE CONDITIONS INCLUDING GROUNDWATER AND TO CONFIRM THE SUITABILITY OF THE PROPOSED TRENCHLESS INSTALLATION. THE INVESTIGATION WILL CONFIRM EXCAVATION PITS DO NOT IMPACT THE RAILWAY FOUNDATIONS



PIPE DIMENSIONS			
DICL PIPE SIZE (DN)	STEEL PIPE OUTSIDE DIAMETER (OD)	WALL THICKNESS (WT)	ENCASING PIPE (DN)
150	168	5.0	300
200	219	5.0	350
250	273	5.0	400
300	324	5.0	450

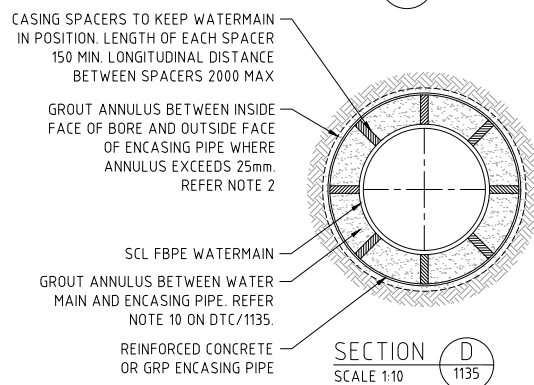
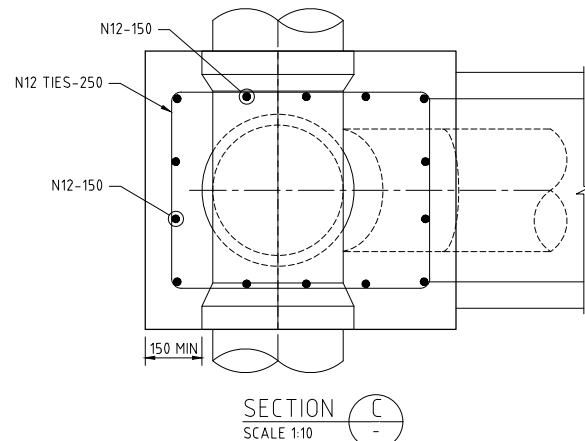
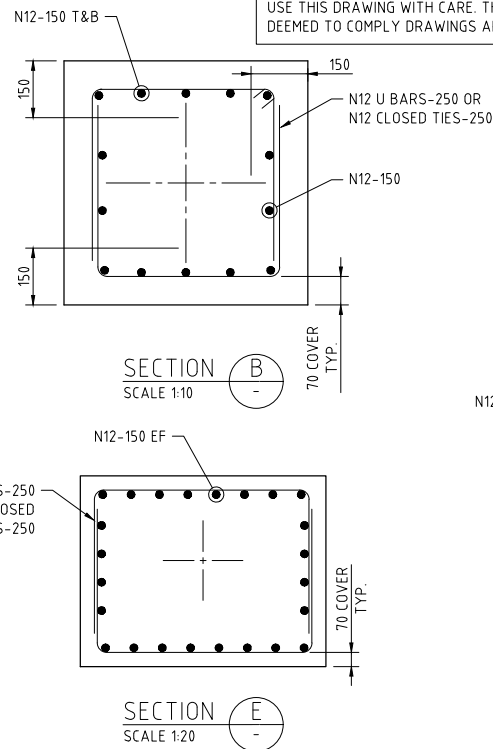
ROCKER PIPE DIMENSIONS		
PIPE SIZE (DN)	"R" MIN	"R" MAX
150	300	450
200	400	600
250	500	750
300	600	900



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. DEEMED TO COMPLY DRAWINGS ARE SUBJECT TO TERMS AND CONDITIONS OF USE AS PUBLISHED BY SYDNEY WATER

NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH DTC/1135 AND DTC/1137.
- DESIGNER TO UNDERTAKE SETTLEMENT ANALYSIS AND CONSULTATION WITH RELEVANT RAIL AUTHORITY TO CONFIRM GROUTING ANNULUS IS APPROPRIATE.
- TAPE 700 LONG PE SLEEVING TO DICL ROCKER PIPES. SLEEVING TO EXTEND 150 INTO CONCRETE ENCASMENT.
- CLEAR COVER TO REINFORCEMENT FROM EXPOSED FACE MUST BE 70mm U.N.O.
- ALL STEEL PIPE JOINTS MUST BE WELDED. ALL JOINTS TO BE EITHER PLAIN ENDS WITH WELDING COLLAR, BUTT WELDED OR SLIP-IN TYPE WELDED JOINTS. REFER TO DTC/1150 AND DTC/1151.



THRUST ANCHOR BLOCK DETAILS FOR 90° BENDS								
BRANCH DN	BRANCH OD	DESIGN PRESSURE HEAD	TEST PRESSURE HEAD	THRUST T	SOIL TYPE ¹	REQUIRED BEARING AREA	H MIN	L MIN
(mm)	(mm)	(m)	(m)	(kN)	-	(m ²)	(mm)	(mm)
150	177	120	150	36.2	S1	0.724	1100	700
150	177	120	150	36.2	S2	0.362	1100	500
150	177	120	150	36.2	S3	0.181	1100	500
200	232	120	150	62.2	S1	1.243	1300	800
200	232	120	150	62.2	S2	0.622	1300	550
200	232	120	150	62.2	S3	0.311	1300	550
250	286	120	150	94.5	S1	1.889	1450	1150
250	286	120	150	94.5	S2	0.945	1450	600
250	286	120	150	94.5	S3	0.472	1450	600
300	345	120	150	137.5	S1	2.749	1550	1600
300	345	120	150	137.5	S2	1.375	1550	700
300	345	120	150	137.5	S3	0.687	1550	650

1. REFER TABLE F6 ON DTC/1100 FOR SOIL TYPES.

REFERENCE DRAWINGS:

DTC/1100 WATER MAIN CONSTRUCTION NOTES
DTC/1129 WATER MAINS ≤ DN300 STEEL TEE & BEND CONNECTION DETAILS
DTC/1135 RAILWAY CROSSING - TRENCHLESS STEEL WATER MAINS DN150 - DN300 SHEET 1 OF 3
DTC/1137 RAILWAY CROSSING - TRENCHLESS STEEL WATER MAINS DN150 - DN300 SHEET 3 OF 3
DTC/1150 STEEL WATER MAINS DN150 TO DN1200 STEEL PIPE JOINTING
DTC/1151 STEEL WATER MAINS DN150 TO DN1200 STEEL PIPE JOINTING WELDED - PLAIN ENDS

Sydney
WATER

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APPROVED

NORBERT SCHAEFER
ENGINEERING MODERNISATION MANAGER

ENGINEERING & TECHNICAL SUPPORT

B	GENERAL UPDATE	NS	31/07/24
A	ORIGINAL ISSUE	PJG	01/03/13
LETTER	DETAILS OF ISSUE / AMENDMENT		APP'D DATE

DEEMED TO COMPLY DRAWINGS

**RAILWAY CROSSING - TRENCHLESS
STEEL WATER MAINS DN150 - DN300**
SHEET 2 OF 3

DTC**1136**

ISSUE	DATE
B	31/07/24