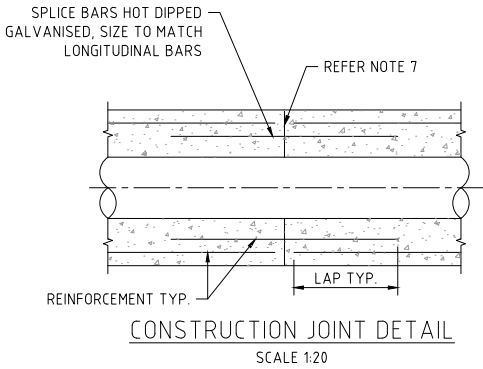
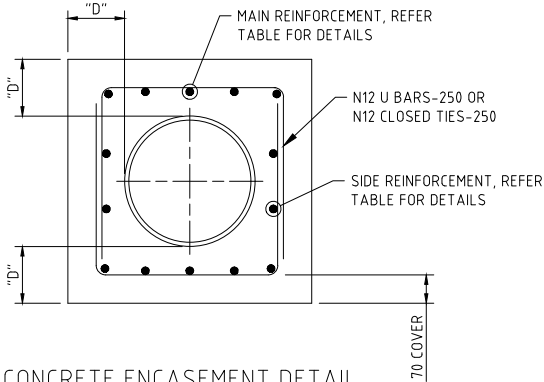


TYPICAL RESTRICTED ACCESS CROSSING - TYPE 1  
TRENCHED DICL PIPE CONCRETE ENCASED  
SCALE 1:20



CONSTRUCTION JOINT DETAIL  
SCALE 1:20



CONCRETE ENCASEMENT DETAIL  
SCALE 1:10

CONCRETE ENCASEMENT REINFORCEMENT DETAILS FOR 45° VERTICAL BENDS			
MAIN SIZE	MAIN REO (T&B)	SIDE REO (EF)	"D"
DN150	4N20	NIL	200
DN200	5N20	NIL	250
DN250	5N20	2N16	300
DN300	5N24	2N16	300

REFER NOTE 2

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

NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DTC/1100.
- THRUST RESTRAINT PROVIDED BY CONCRETE ENCASEMENT. ULTIMATE LIMIT STATE BASED ON TEST PRESSURE OF 150m HEAD OF WATER. THIS DESIGN MAY ONLY BE USED WHERE DIMENSION "L1" IS LESS THAN 2500.
- SHOW DIMENSIONS "W", "X1", "Z1", "L1" IN DESIGN AND WORK AS CONSTRUCTED DRAWINGS.
- TAPE 700 LONG PE SLEEVING TO DICL ROCKER PIPES. SLEEVING TO EXTEND 150 INTO CONCRETE ENCASEMENT.
- MINIMUM CLEAR COVER TO REINFORCEMENT MUST BE 70mm.
- DO NOT APPLY ANY THRUST LOADS FOR AT LEAST 14 DAYS AFTER POURING CONCRETE.
- FORM ALL CONSTRUCTION JOINTS. SCABBLE JOINT TO EXPOSE AGGREGATE TO 5mm DEPTH AND WIRE BRUSH CLEAN PRIOR TO FORMING. SOAK EXISTING CONCRETE SURFACE WITH WATER AND REMOVE ALL EXCESS WATER IMMEDIATELY PRIOR TO PLACING CONCRETE.
- WHEN CROSSING UNDER A WATER MAIN  $\leq$  DN375 THE MINIMUM VERTICAL CLEARANCE MUST BE 300mm. WHEN CROSSING UNDER A WATER MAIN  $>$  DN375 THE MINIMUM VERTICAL CLEARANCE MUST BE 500mm.
- THE DESIGNER MUST LOCATE ALL EXISTING AND PROPOSED SERVICES AND RECORD DETAILS ON THE DESIGN DRAWINGS.
- THE CONSTRUCTOR MUST LOCATE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION OF THE CROSSING.
- CONSTRUCTOR TO SUPPORT ALL EXISTING SERVICES DURING CONSTRUCTION OF CROSSING.
- MAXIMUM OF 1 CONSTRUCTION JOINT ALLOWED IN CONCRETE ENCASEMENT, REFER TO CONSTRUCTION JOINT DETAIL.
- GREATER CLEARANCES MAY BE REQUIRED. THE CLEARANCE REQUIREMENT FOR ALL SERVICES AND ADDITIONAL CONTROLS FOR TEMPORARY SUPPORT OF OTHER EXPOSED UTILITIES MUST BE DETERMINED IN CONSULTATION WITH THE RELEVANT UTILITY AUTHORITY AND WITH SITE SPECIFIC SAFETY CONSIDERATIONS.