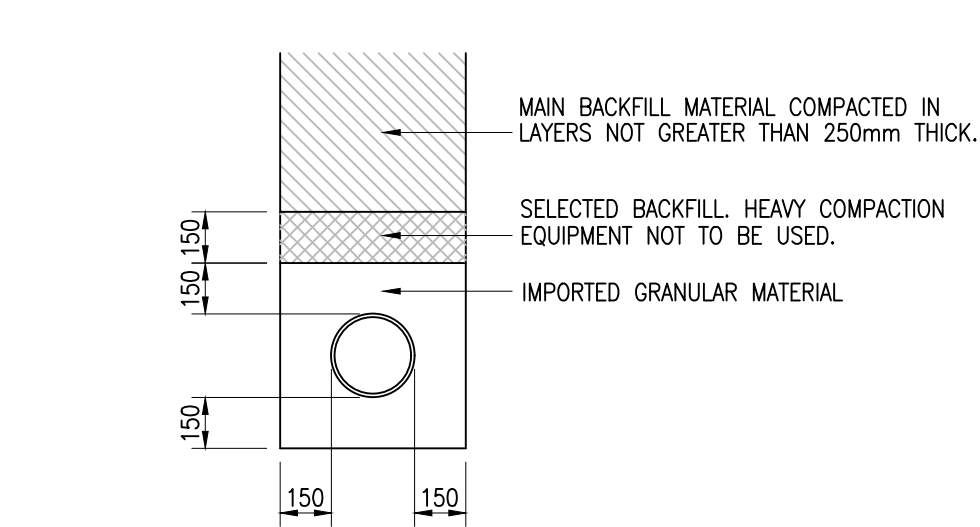
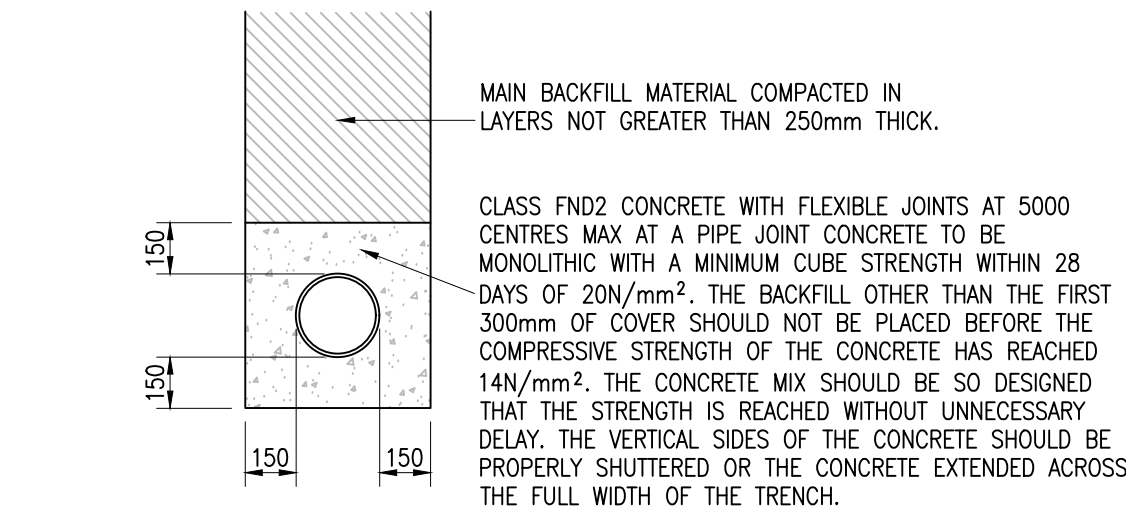




GRANULAR SURROUND WHERE COVER EXCEEDS 1200mm TYPE "S"



CONCRETE SURROUND WHERE COVER IS LESS THAN 1200 TYPE "Z"

NOMINAL SIZE OF PIPES (mm)	MAXIMUM PARTICLE SIZE (mm)	IMPORTED GRANULAR MATERIAL TO BS 882
100	10	10mm NOMINAL SINGLE-SIZE
OVER 100 TO 150	15	10 OR 14mm NOMINAL SINGLE-SIZE OR 14 TO 5mm GRADED
OVER 150 TO 300	20	10,14 OR 20mm NOMINAL SINGLE-SIZE OR 14 TO 5mm GRADED OR 20 TO 5mm GRADED
OVER 300 TO 600	20	14 OR 20mm NOMINAL SINGLE-SIZE OR 14 TO 5mm GRADED OR 20 TO 5mm GRADED

Pipe Ø	Joint thickness
< 450	18mm
450-1200	36mm
1200 >	54mm

COMPRESSIBLE FILLER TABLE

(BITUMEN IMPREGNATED INSULATING BOARD TO BS 1142: PART 3)

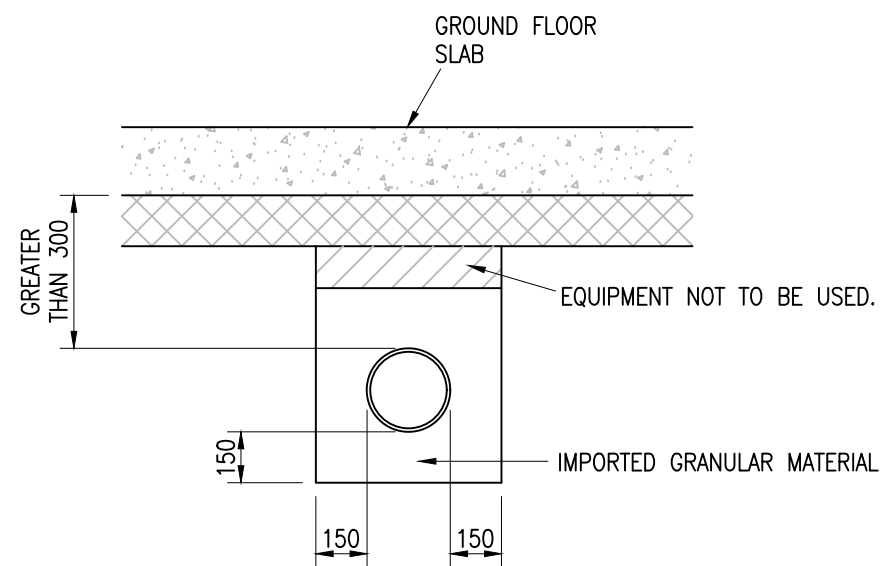
PIPE I.D	OVERALL TRENCH WIDTH
100	550
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
1050	2100
1200	2300
1350	2500
1500	2700
1800	3100

BS EN 1610:1997 ANNEX B TABLE B.15 COARSE AGGREGATE - PIPE BEDDING							
SIEVE SIZE (mm)	PERCENTAGE BY MASS PASSING BS SIEVES FOR NOMINAL SIZES						
	GRADED AGGREGATE (mm)			SINGLE-SIZED AGGREGATE (mm)			
	40 to 5	20 to 5	14 to 5	40	20	14	10
50.0	100	-----	-----	100	-----	-----	-----
37.5	90 - 100	100	-----	85 - 100	100	-----	-----
20.0	35 - 70	90 - 100	100	0 - 25	85 - 100	100	-----
14.0	-----	-----	90 - 100	-----	-----	85 - 100	100
10.0	10 - 40	30 - 60	50 - 85	0 - 5	0 - 25	0 - 50	85 - 100
5.0	0 - 5	0 - 10	0 - 10	-----	0 - 5	0 - 10	0 - 25
2.36	-----	-----	-----	-----	-----	-----	0 - 5

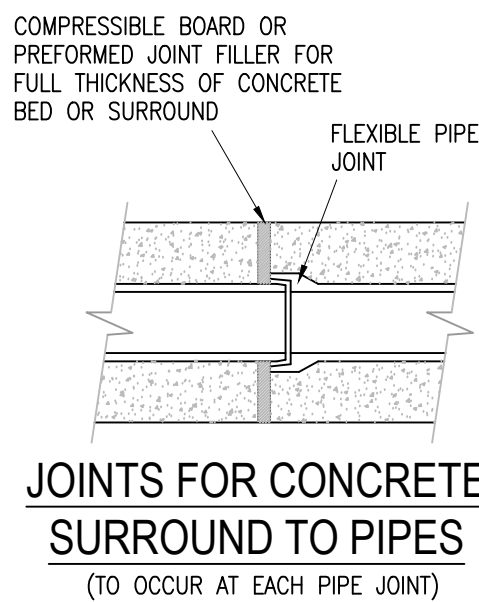
RIGID PIPES BEDDING GRADING

BASED ON BS EN 1810 : 1997 TABLE B.15 FOR RIGID PIPES THE BEDDING SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAX SIZE OF 10mm FOR 100mm PIPES; 14mm FOR 150mm PIPES; 20mm FOR 225mm TO 600mm PIPES; mm FOR OVER 675mm PIPES

CHALK/LIMESTONE SHALL NOT BE USED AS BEDDING MATERIAL IN GROUND WHERE THE PH <7

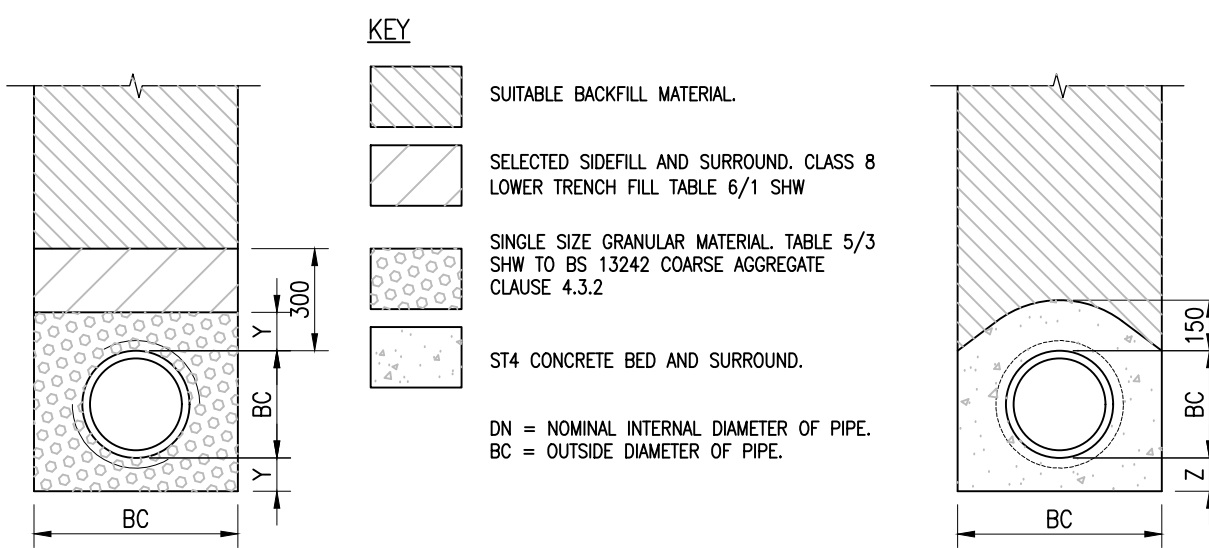


PIPE BELOW SLAB



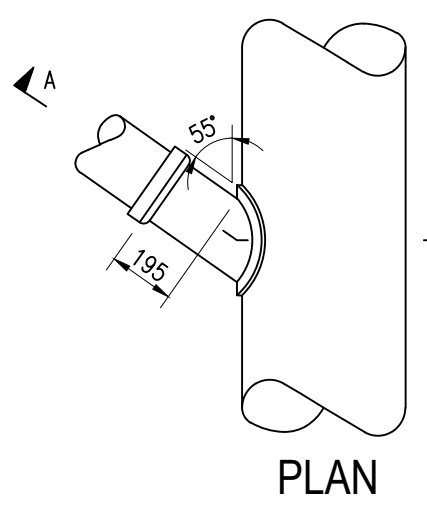
PIPE BEDDING DETAILS

PIPE BEDDING DETAILS

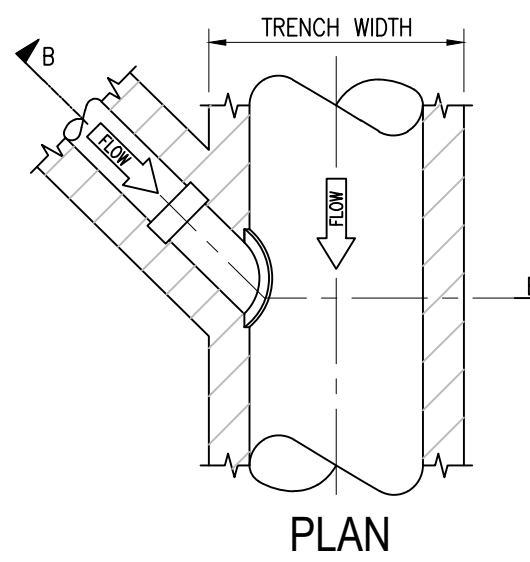


CLASS S GRANULAR SURROUND WHERE COVER EXCEEDS 900mm

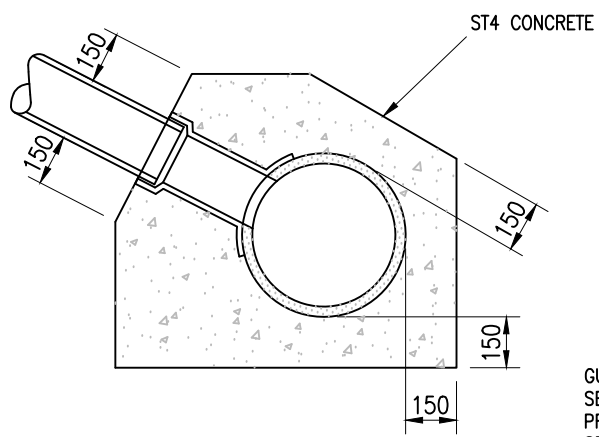
CLASS Z CONCRETE SURROUND WHERE COVER IS LESS THAN 900



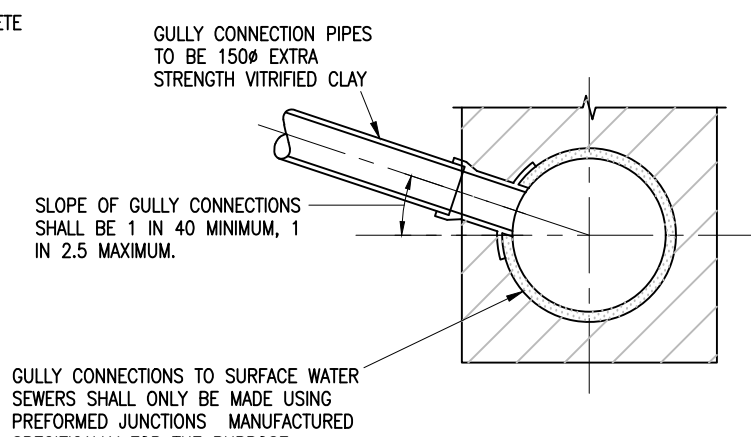
PLAN



PLAN

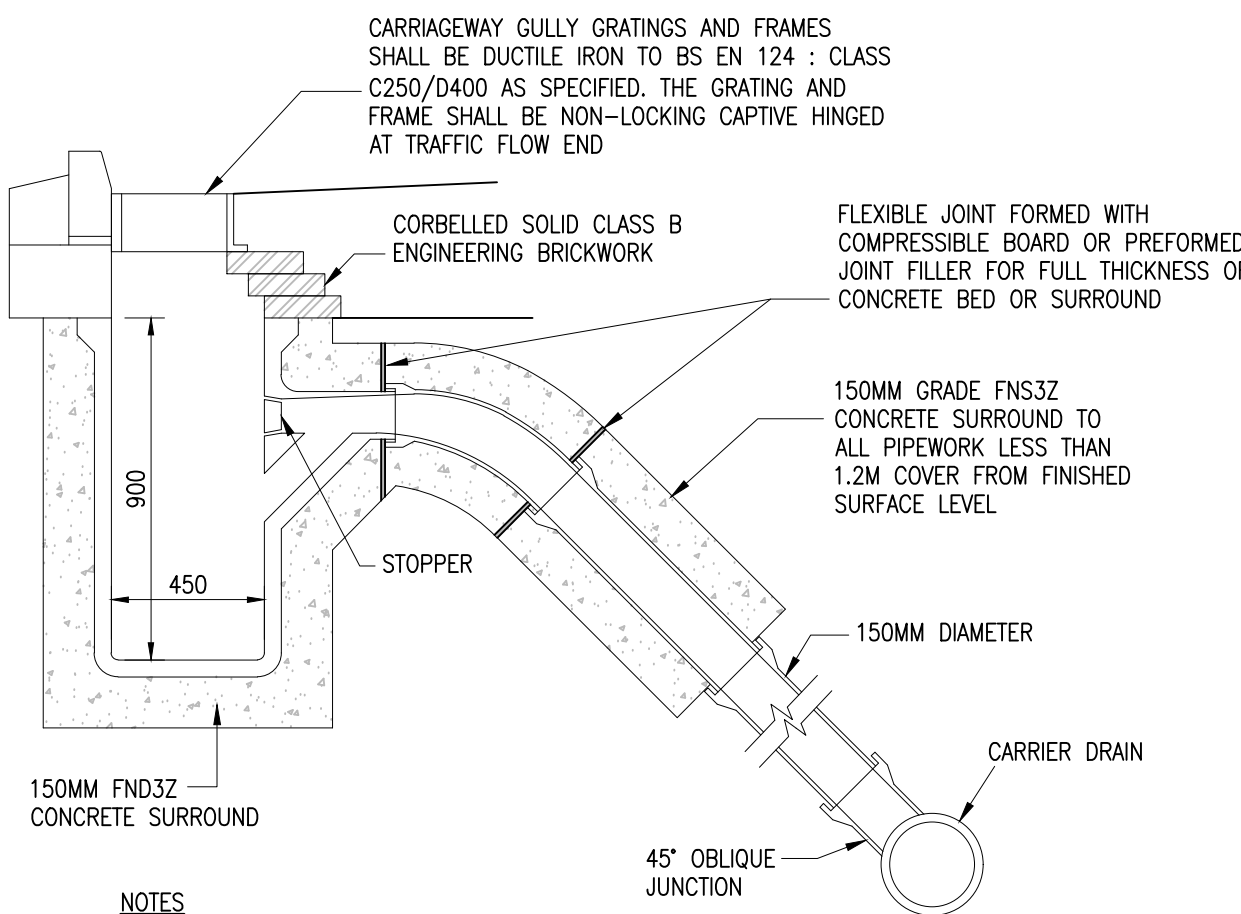


SECTION A-A
CONCRETE SURROUND

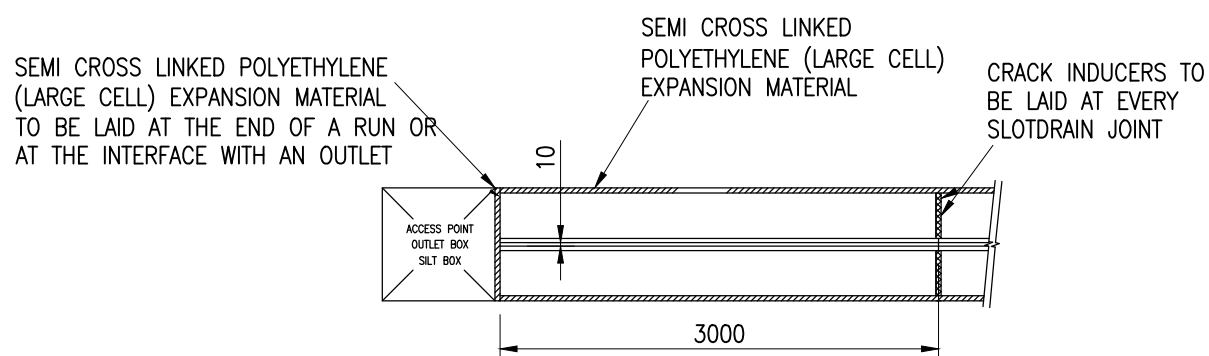


SECTION B-B
GRANULAR SURROUND

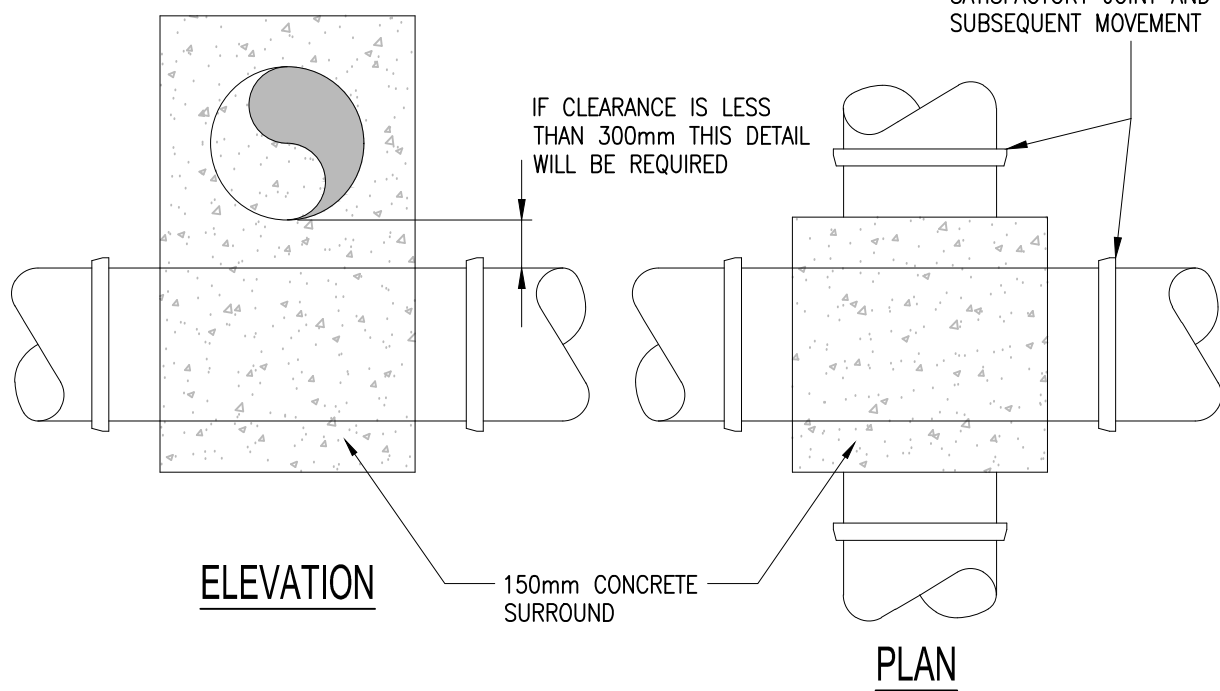
GULLY CONNECTIONS



GULLY DETAIL WITH CONNECTION TO CARRIER DRAIN

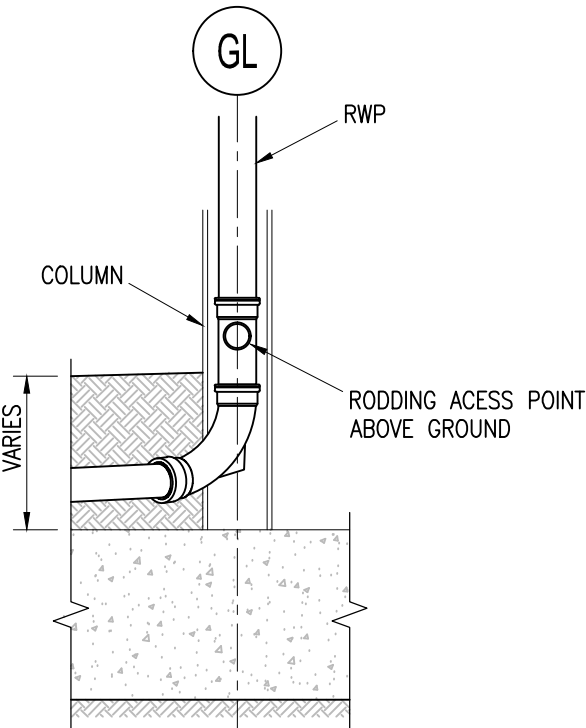


150Ø SLOTDRAIN
TYPICAL PLAN DETAIL

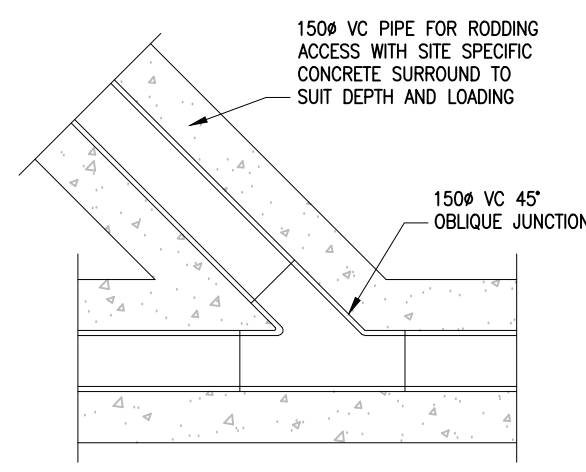


SPECIAL PIPE CROSSOVER DETAIL

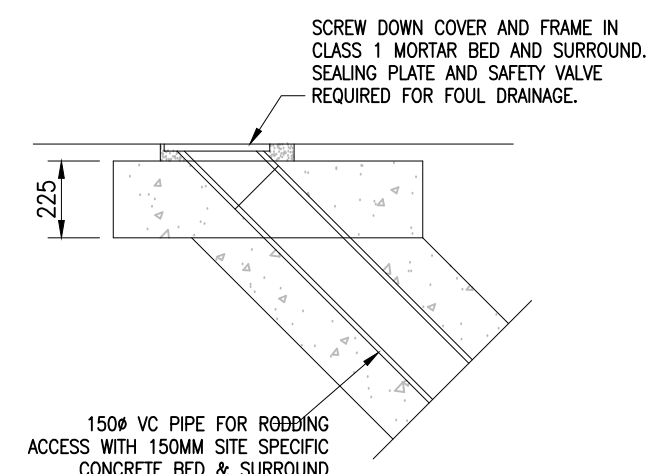
REQUIRED IF CLEARANCE BETWEEN PIPES CROSSING EACH OTHER IS LESS THAN 300MM



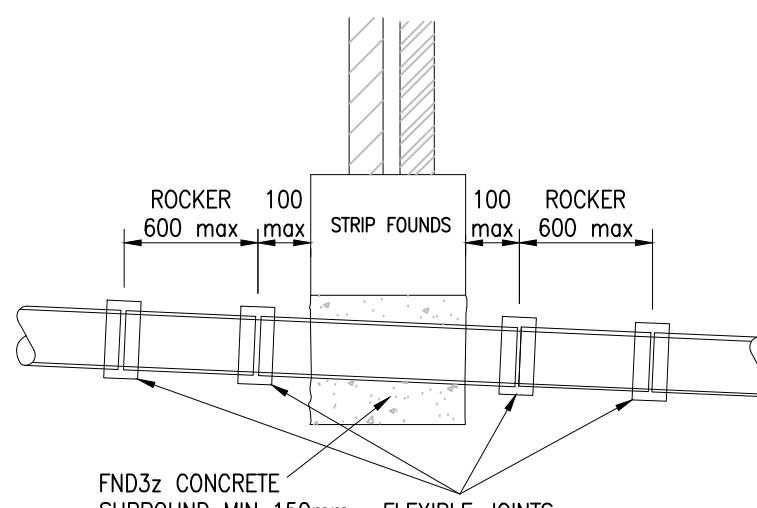
TYPICAL RWP RODDING POINT



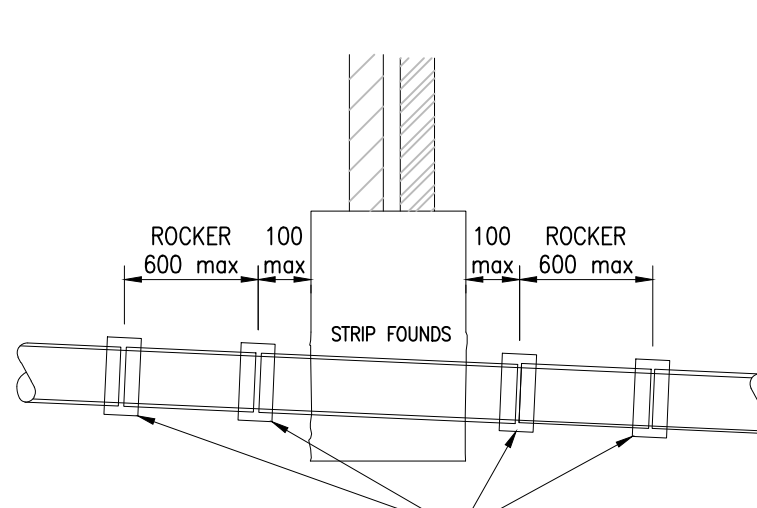
ONLINE RODDING BASE DETAIL



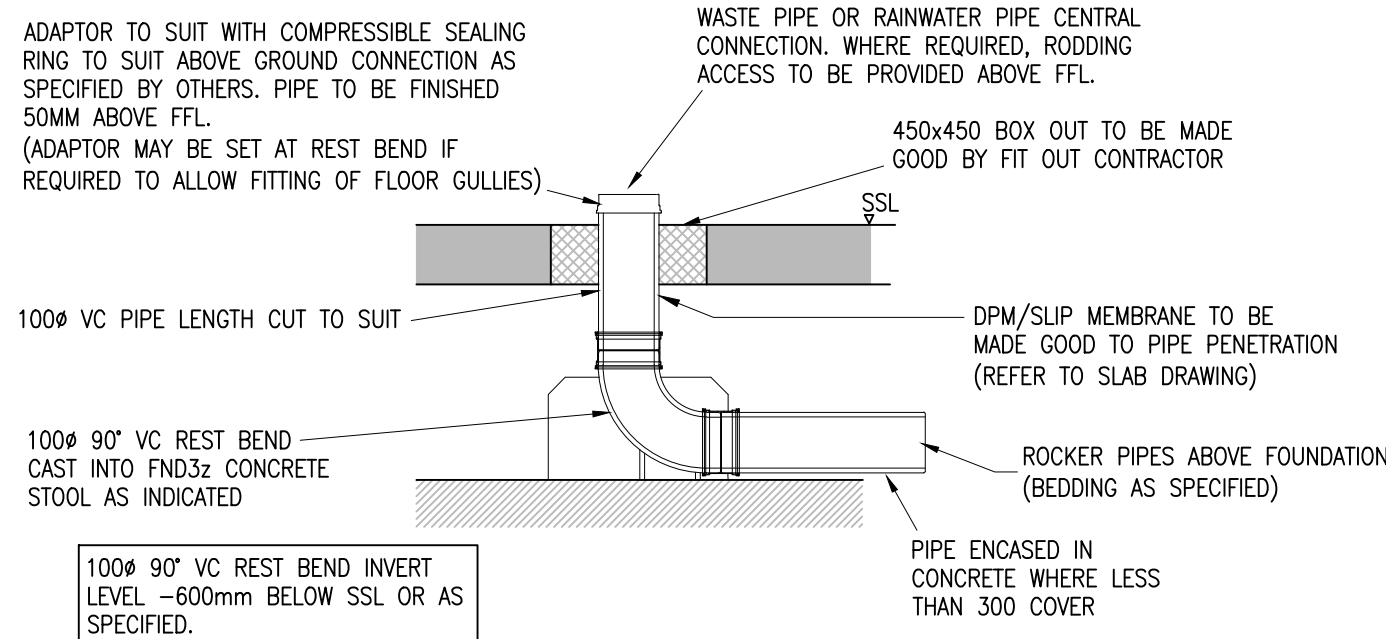
RODDING ACCESS DETAIL FOR
PEDESTRIAN AREAS



PIPES UNDER
FOUNDATIONS



PIPES PASSING THROUGH
FOUNDATIONS



100Ø BELOW GROUND PIPE CONNECTION

NOTE: 100Ø 90° VC REST BEND INVERT LEVELS AS SPECIFIED. BRANCH CONNECTIONS OFF FOUNDATIONS MAY BE SET DEEPER TO ALLOW FOR CONNECTION TO MAIN DRAIN RUN. ALTERNATIVELY, THE 100Ø 90° VC REST BEND MAY BE REPLACED BY 45°/30°/15° BENDS TO ALLOW FOR STEEP BRANCH CONNECTIONS.

GENERAL

- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
- ALL LEVELS AND DATUMS IN METRES UNLESS STATED OTHERWISE.
- ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS..
- ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.
- ROAD MARKINGS TO BE WHITE THERMOPLASTIC SCREEN IN ACCORDANCE WITH TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.
- BOND COAT SHALL BE APPLIED BETWEEN CONSTRUCTION LAYERS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS.
- WHERE REQUIRED, EDGE OF CARRIAGEWAY REINSTATEMENT SHALL BE AGREED WITH LOCAL HIGHWAY AUTHORITY ENGINEER PRIOR TO COMPLETION.
- EXISTING 3D SURFACE MODEL PRODUCED FROM TOPOGRAPHICAL SURVEY, DATED AUGUST 2012.
- EXISTING TOPOGRAPHICAL SURVEY SHIFTED TO ORDNANCE SURVEY COORDINATES, THEN RAISED TO TEXT LEVELS.
- FINISHED FLOOR LEVELS TAKEN FROM 04 JUNE, DOCUMENT 132 AND ADJUSTED TO TIE IN TO TOPOGRAPHICAL SURVEY LEVELS. (BLOCK E TBM WAS ASSUMED 100m AOD. NEW BLOCK E REDUCED LEVEL IS 87.00m AOD. ALL OTHER LEVELS RELATIVE TO NEW BLOCK E REDUCED LEVEL).
- PROPOSED LAYOUT TAKEN FROM LES FOEY DRAWING, DATED APRIL 2016.
- INVERT LEVELS OF EXISTING ADOPTED DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.

TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS:-

D246-KGB-00-XX-DR-D-0500
PROPOSED DRAINAGE
SURFACE WATER LAYOUT

D246-KGB-00-XX-DR-D-0501
PROPOSED DRAINAGE
FOUL DRAINAGE LAYOUT

D246-KGB-00-XX-DR-D-0502
PROPOSED DRAINAGE
MANHOLE & PIPE SCHEDULES

D246-KGB-00-XX-DR-D-0503
PROPOSED DRAINAGE
LONG-SECTIONS
SHEET 1 OF 2

D246-KGB-00-XX-DR-D-0504
PROPOSED DRAINAGE
LONG-SECTIONS
SHEET 2 OF 2

D246-KGB-00-XX-DR-D-0505
PROPOSED DRAINAGE
STANDARD DETAILS
SHEET 1 OF 3

D246-KGB-00-XX-DR-D-0507
PROPOSED DRAINAGE
STANDARD DETAILS
SHEET 3 OF 3

	REV	DESCRIPTION	DRAWN	INITIALS	DATE	Dwg STATUS	CHECKED BY	DATE	<i>KGB Infrastructure</i> North Mersey Business Centre Woodward Road Knowsley Industrial Park Kirkby, Liverpool L33 7UY Tel: 0151 547 2508 Mobile: 07808 162 303 email: kgbinfrastructure@btinternet.com	JOB TITLE TERENCE STREET, NEWTON HEATH		CLIENT SPLASH DEVELOPMENTS LTD	
	P01	ISSUED FOR INFORMATION	CIVIL 3D	KB	16/08/24	Preliminary	KB	16/08/24		DRAWING TITLE PROPOSED DRAINAGE STANDARD DETAILS SHEET 2 of 3			
											SCALE NTS	DRAWN BY KB	DATE 16/08/2024

KGB Infrastructure

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