TABLE 1

	DN	Minimum trench width (OD + x)			
		Supported trench	Unsupported trench		
			# > 60°	# < 60°	
	less 225	600	600	600	
	225 to 350	800	800	800	
	350 to 700	OD + 700	OD + 700	OD + 400	
	700 to 1200	OD + 850	OD + 850		
	greater 1200	OD + 1000	OD + 1000	OD + 400	

In the values OD + x, x/2 equals the minimum working space between the pipe and the trench wall or support, where:

OD is external diameter. # is angle of unsupported trench side measured to the horizontal.

MINIMUM TRENCH WIDTH IN RELATION TO NORMAL SIZE DN

TARIF 2

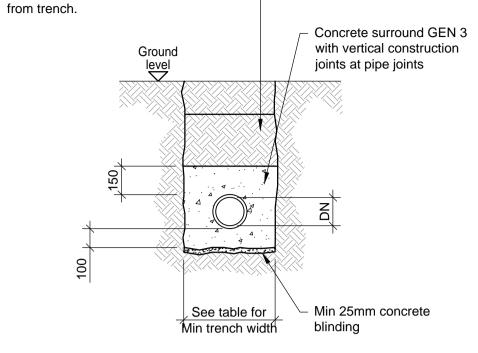
Minimum trench width
As Table 1
800
900
1000

The minimum trench width shall be the greater of the values taken from tables 1 & 2.

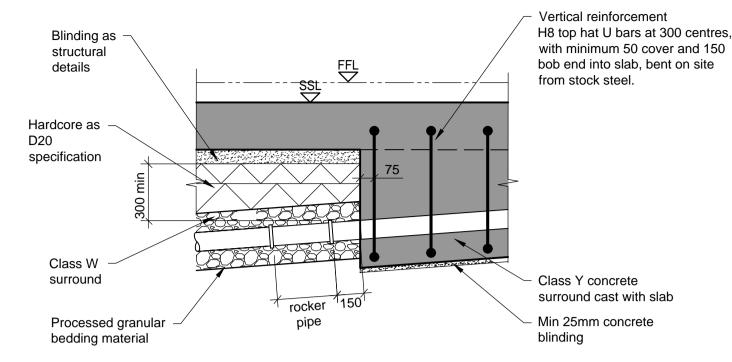
MINIMUM TRENCH WIDTH IN RELATION TO TRENCH DEPTH

Under private roads and pavements; with Type 1 granular sub-base material

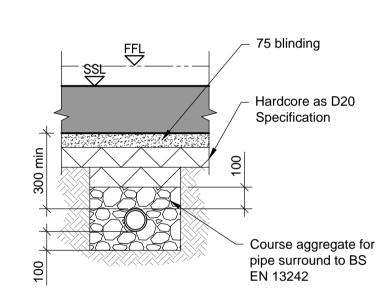
 Under public roads and pavements; to Dept of Transport 'Specification for the Reinstatement of Openings in Highways' Elsewhere; with material excavated



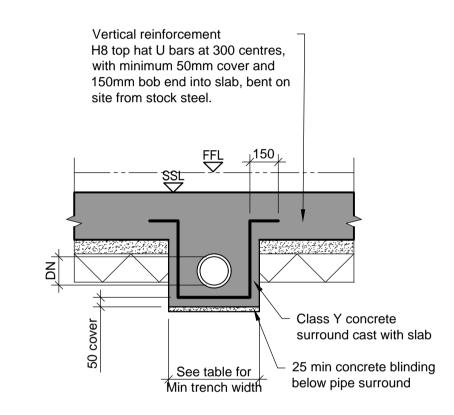
CLASS Z SURROUND COMPLETE CONCRETE SURROUND



TYPICAL DETAIL FOR PIPELINES UNDER SLABS: CLASS Y AND W SURROUND

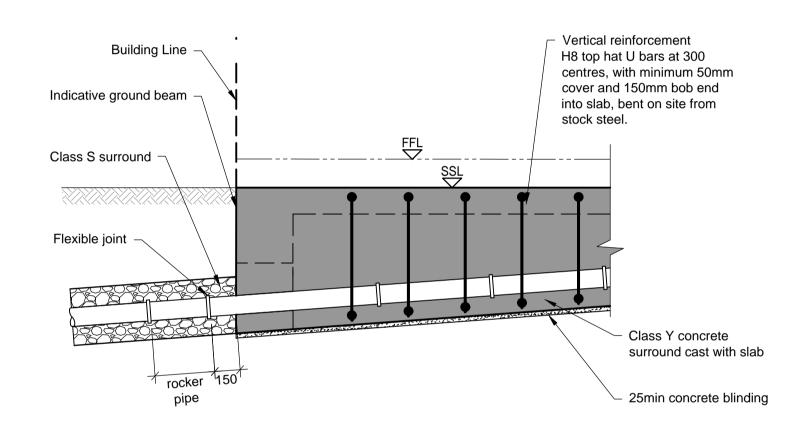


CLASS W SURROUND FOR PIPES WITH CROWN >300 UNDER BUILDING

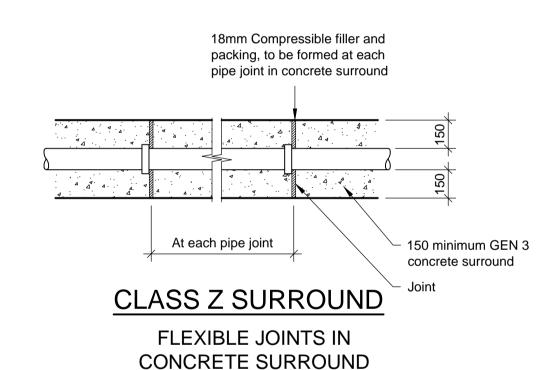


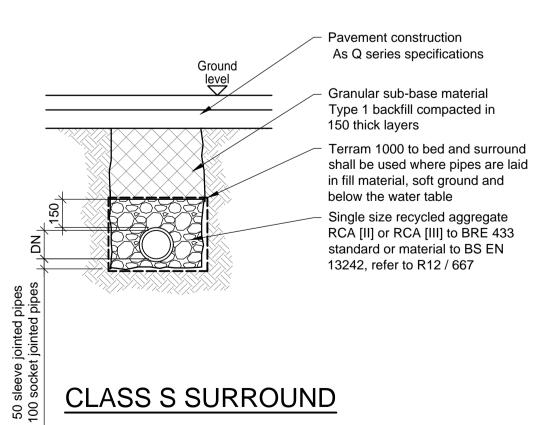
CLASS Y SURROUND FOR PIPES WITH CROWN < 300 UNDER BUILDING

> For plastic pipes care is to be taken in placing concrete to avoid deformation or displacement of pipe.



TYPICAL DETAIL FOR PIPELINES UNDER SLABS: CLASS Y AND W SURROUND





RECYCLED AGGREGATE GRANULAR SURROUND & BACKFILL FOR AREAS SUBJECT TO VEHICLE LOADING

For clay pipes only

Backfill with material excavated from trench Terram 1000 to bed and surround Selected as dug shall be used where pipes are laid fill R12 / 616 in fill material, soft ground and below the water table ★ 250 for adoptable Single size recycled aggregate RCA [II] or sewers RCA [III] to BRE 433 standard pipe surround or material to BS EN 13242. Refer to R12/667 See table for Min trench width **CLASS S SURROUND**

RECYCLED AGGREGATE GRANULAR SURROUND & BACKFILL FOR SOFT OR HARD LANDSCAPING AREAS NOT SUBJECT TO VEHICLE LOADING

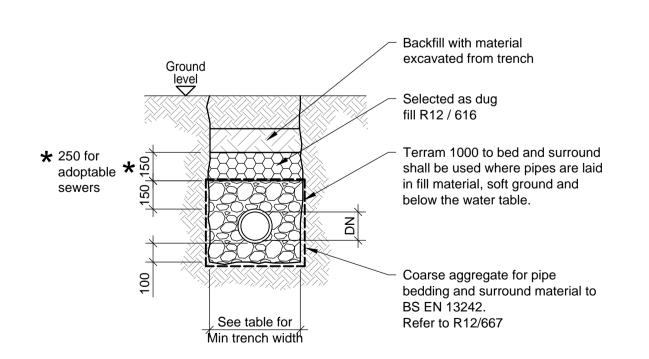
For clay pipes only

Pavement construction As Q series specifications Ground level Backfill with Type 1 granular sub-base material compacted in 150 thick layers Terram 1000 to bed and surround shall be used where pipes are laid in fill material, soft ground and below the water table Coarse aggregate for pipe bedding and surround material to BS See table for EN 13242. Refer to R12/667 Min trench width

CLASS S SURROUND

GRANULAR SURROUND & BACKFILL FOR AREAS SUBJECT TO VEHICLE LOADING

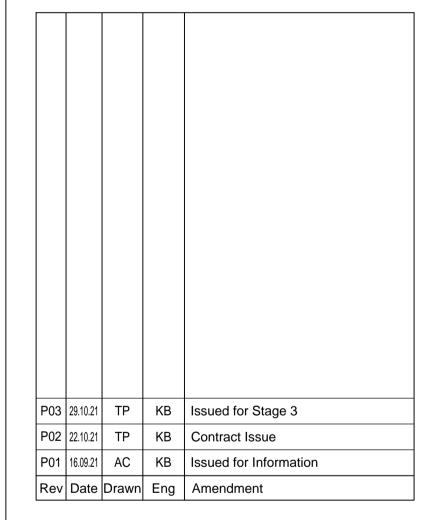
Suitable for all pipes



CLASS S SURROUND

GRANULAR SURROUND & BACKFILL FOR SOFT OR HARD LANDSCAPING AREAS NOT SUBJECT TO VEHICLE LOADING

Suitable for all pipes



NOTES:

and specifications.

3. Health & Safety

1. This drawing is to be read in conjunction with all

relevant Architect's, Engineer's and specialists' drawings

2. Do not scale from this drawing in either paper or digital

should be 50mm long @ A1 or 25mm long @ A3.

form. Use written dimensions only. To check that this

All specific drawing notes are to be read in conjunction

with the project "Information Pack" and "Site Rules".

4. For general notes refer to Drawing No. 29100 / 0002.

drawing has been printed to the intended scale this bar

LIDDELL ROAD - PHASE 2

BELOW GROUND DRAINAGE DETAILS SHEET 4

Status STAGE 3 ISSUE NOT FOR CONSTRUCTION

	Drawn	АН	Eng	КВ
	Scales	1:20 at A1	1:40 a	at A3
	Drawing No		Rev	
	2910	00 / 6104	P0:	3
	Doc Ref. 29100)-PAM-ZZ-XX-DR-	C-610)4

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