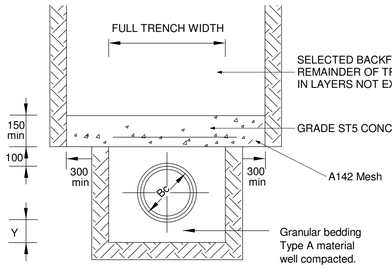
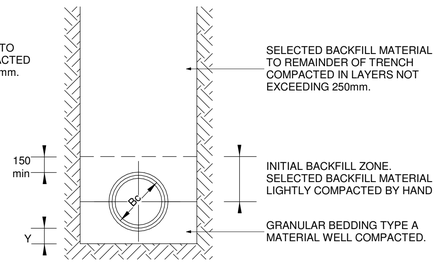
FLEXIBLE PIPES



CLASS A BEDDING

For cover to pipes of less than 0.90m in paved areas, and less than 0.60m in open spaces.

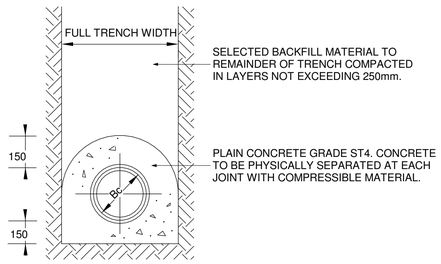
RIGID PIPES



CLASS B BEDDING

(NON-TRAFFICKED AREAS)

RIGID PIPES



CLASS A BEDDING

For cover to pipes of less than 1.00m in paved areas, and less than 0.45m in open spaces.

GRANULAR BEDDING

NOMINAL BORE OF PIPE (mm)	ALTERNATIVE AGGREGATE SIZES (mm)	
	SINGLE SIZED	GRADED
100	10	-
150	10 or 14	14 to 5
225-300	10, 14 or 20	14 to 5 or 20 to 5

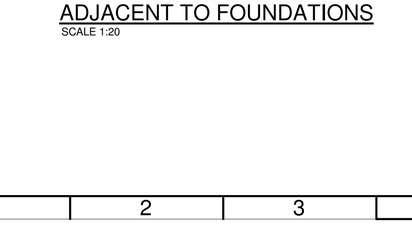
GRANULAR BEDDING FOR PIPES AND BACKFILLING MATERIAL FOR TEMPORARY DRAINS (TRENCH SUB-DRAINS) SHALL CONSIST OF AGGREGATES FROM NATURAL SOURCES TO BS EN 13242 AND BS EN 1744-1 OR SINTERED PULVERISED FUEL ASH COMPLYING WITH THE RELEVANT PROVISIONS OF BS 3892; SIZED IN ACCORDANCE WITH THE ABOVE TABLE.

SELECTED FILL MATERIAL, WHETHER SELECTED FROM LOCALLY EXCAVATED MATERIAL OR IMPORTED, SHALL CONSIST OF UNIFORM, READILY COMPACTIBLE MATERIAL, FREE FROM VEGETABLE MATTER, BUILDING RUBBISH AND FROZEN MATERIAL, OR MATERIALS SUSCEPTIBLE TO SPONTANEOUS COMBUSTION, AND EXCLUDING CLAY OF LIQUID LIMIT GREATER THAN 80 AND/OR PLASTIC LIMIT GREATER THAN 55 AND MATERIALS OF EXCESSIVELY HIGH MOISTURE CONTENT. CLAY LUMPS AND STONES SHALL BE RETAINED ON 100mm AND 40mm SIEVES RESPECTIVELY.

TRENCH WIDTHS

Pipe Dia	Trench width max.	Y
100	600	100
150	600	100
225	700	100
300	750	100

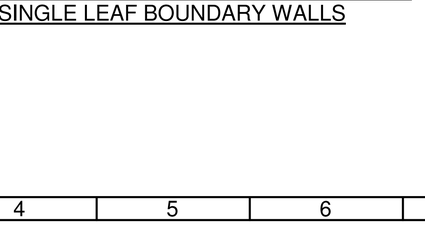
RIGID PIPES



CLASS S BEDDING

(ON TRAFFICKED AREAS)

FLEXIBLE PIPES



CLASS S BEDDING

RODDING EYE DETAIL

DETAIL WHERE DRAINS RUN ADJACENT TO FOUNDATIONS

SCALE 1:20

PROTECTION OF PIPES PENETRATING SINGLE LEAF BOUNDARY WALLS

SILT TRAP DETAIL

NOTES

GENERAL

1. DO NOT SCALE.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERING, ARCHITECTURAL AND SPECIALIST SUPPLIER DRAWINGS, SPECIFICATION OF WORKS, DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS.
3. THE PRINCIPAL DIMENSIONS AND LEVELS FOR SETTING OUT ARE INDICATED. THE CONTRACTOR IS TO TAKE ACCURATE SITE MEASUREMENTS TO VERIFY PRINCIPAL SETTING OUT DIMENSIONS AND LEVELS PRIOR TO THE EXECUTION OF ANY WORK. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METRES ABOVE OS DATUM UNLESS NOTED OTHERWISE.
4. ALL WORK IS TO BE CARRIED OUT TO THE APPROVAL OF THE ENGINEER AND BUILDING CONTROL AND TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANNING PERMISSION WHERE APPROPRIATE. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE RELEVANT BRITISH STANDARD CODES, CODES OF PRACTICE OR EUROCODES AND THE AGREED PROJECT SPECIFICATION.
5. THE CONTRACTOR IS TO ENSURE COMPATIBILITY AND GOOD FIT BETWEEN NEW AND EXISTING CONSTRUCTION THROUGHOUT, TAKING SITE DIMENSIONS AS NECESSARY PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR IS TO MAINTAIN STABILITY OF ALL WALLS, FLOORS, COLUMNS, TRUSSES AND OTHER STRUCTURAL AND NON-STRUCTURAL ELEMENTS AND TO DESIGN, DETAIL, SUPPLY AND FIX ALL TEMPORARY SUPPORTS TO MAINTAIN VERTICAL AND HORIZONTAL STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES FOR THE DURATION OF THE WORKS.
6. ALL PROPRIETARY PRODUCT DETAILS ARE INDICATIVE. FOR CONSTRUCTION DETAILS SEE SPECIALIST SUPPLIERS INFORMATION. ALTERNATIVE PROPRIETARY PRODUCTS MAY BE PROPOSED BUT SHOULD BE IN ALL RESPECTS EQUAL TO THE PRODUCT DETAILED AND WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND BUILDING CONTROL. ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARDS INDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK

FURTHER INFORMATION ON HAZARDS CAN BE FOUND IN THE DRA AND / OR CSM HAZARD LOG.

REF.	HAZARD	STAGE	MITIGATING MEASURE
A	EXISTING RETAINING WALL	CONSTRUCTION	SEE 19-027-DRA-001

PRELIMINARY

Rev	Description	Drn / Chk / App	Date
0	PRELIMINARY ISSUE	CM | LJH | AJH	20/09/2019

ORIGINAL DRAWING IN COLOUR

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Normanton WF6 2AL

Client

NYP ARCHITECTURAL SERVICES

Project

LUBRIZOL, ALBION ROAD

Drawing Title

PROPOSED DRAINAGE CONSTRUCTION DETAILS SHEET 1

	Name	Date
Drawn	CM	20/09/2019
Designed	CM	20/09/2019
Checked	LJH	20/09/2019
Approved	AJH	20/09/2019

Scale: As indicated @ A1

Drawing Status: PRELIMINARY

Drawing No.: 19-093-DWG-101

Revision: 0

20/09/2019 15:28:25

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