

₇ BED LEVEL

BAG WORK HEADWALL DETAIL

20mm NOM. SINGLE SIZED

FILTER DRAINS ARE TO BE PERFORATED

JOINTS UNLESS SPECIFIED OTHERWISE

Y=X+300 FOR DRAINS NOT EXCEEDING

1.5m COVER BELOW FINISHED GROUND

LEVEL & Y=X+450 FOR DRAINS **EXCEEDING 1.5m COVER BELOW**

FINISHED GROUND LEVEL

CLAYWARE PIPES WITH MECHANICAL

GRAVEL.

LAND DRAIN

FILTER DRAIN

BEDDING NOTES

1. GRANULAR PIPE BEDDING MATERIAL FOR PIPES, AND BACKFILLING FOR TEMPORARY DRAINS (TRENCH SUB-DRAINS), SHALL CONSIST OF AGGREGATES FROM NATURAL SOURCES OR SINTERED PULVERIZED-FUEL ASH COMPLYING WITH THE RELEVANT PROVISIONS OF BS.882 AND BS.3797, PART 2 RESPECTIVELY, SIZED IN ACCORDANCE WITH THE FOLLOWING TABLE:

NOMINAL BORE	ALTERNATIVE A	AGGREGATE SIZES
	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
375 - 525	14 TO 20	14 TO 5 OR 20 TO 5
EXCEEDING	14, 20 OR 40	14 TO 5, 20 TO 5 OR 40 TO 5

2. SELECTED BACKFILL MATERIAL, WHETHER SELECTED FROM LOCALLY EXCAVATED MATERIAL OR IMPORTED, SHALL CONSIST OF UNIFORM, READILY COMPACTIBLE MATERIAL, FREE FROM VEGETABLE MATTER, BUILDING RUBBISH & FROZEN MATERIAL, OR MATERIALS SUSCEPTIBLE TO SPONTANEOUS COMBUSTION, & 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 75MM AND 37.5MM SIEVES RESPECTIVELY.

3. COMPRESSIBLE FILLER FOR INTERRUPTING CONCRETE PROTECTION TO PIPELINES SHALL CONSIST OF BITUMEN IMPREGNATED INSULATING BOARD TO BS.1142, PART 3 OR OTHER EQUALLY COMPRESSIBLE MATERIAL. THE THICKNESS OF COMPRESSIBLE FILLER SHALL BE AS FOLLOWS:

NOMINAL BORE OF PIPE (MM)	THICKNESS OF COMPRESSIBLE FILLER (MM)	
LESS THAN 450	18	
450 - 1200	36	
EXCEEDING 1200	54	

4. THE CONTRACTOR IS TO PROTECT BURIED PIPES (PARTICULARLY SHALLOW PIPES) FROM DAMAGE CAUSED BY LOADS IMPOSED BY CONSTRUCTION PLANT.

5. BELOW ROADS AND OTHER PAVED AREAS TRENCHES SHALL BE BACKFILLED WITH DOT SPECIFICATION TYPE 1 SUB-BASE MATERIAL UP TO ROAD/PAVING FORMATION LEVEL. ALL OTHER TRENCHES, UNLESS OTHERWISE SPECIFIED SHALL BE BACKFILLED TO FINISHED GROUND LEVEL OR UNDERSIDE OF TOPSOIL LAYER WITH WELL COMPACTED EXCAVATED MATERIAL.

GRANULAR BEDDINGS 1. DIMENSION Y: 1/6 BC OR 100MM UNDER BARRELS, AND 50mm MIN. UNDER SOCKETS WHICHEVER IS THE GREATER (400 MAX.). ROCK ETC 1/4 BC AND 150MM MIN UNDER SOCKETS (400mm MAX.)

2. DN: NOMINAL BORE OF PIPE 3. BC : EXTERNAL DIAMETER OF PIPE BARREL

CONCRETE BEDDINGS

GEOTEXTILE LAYER OF TERRAM T1000 GT

PERMEABLE FILTRATION MATERIAL, 300mm LAPS

FILTER DRAINS ARE TO BE

INTERLOCKING PLATES TO

MANUFACTURES SPECIFICATION

PERFORATED PLASTIC PIPES.

SOAKAWAY DEPTH AS INDICATED ON

INCOMING DRAIN TO BE PROVIDED. DRAIN WITHIN THE SOAKAWAY TO BE

FORMED OF PERFORATED PIPE,

EXTENDING A MINIMUM OF 1m INTO THE

AS INDICATED ON PLAN

SOAKAWAY

PLAN. REQUIRED DEPTH BELOW

1. THE USE OF GRANULAR BEDDINGS BELOW CONCRETE BEDDINGS (BEDDING TYPES A2,A4,A6) ARE FOR USE IN WET CONDITIONS.

2. CONCRETE CRADLES MAY EXTEND TO SIDES OF TRENCH. TRANSVERSE STEEL TO BE 0.4% MIN OF CONCRETE AT X-X (FM=3.4) UNLESS

OTHERWISE STATED. BEDDING BENEATH & AT SIDES OF PIPE TO BE WELL COMPACTED

BEDDING/BACKFILL DIRECTLY ABOVE PIPE TO BE LIGHTLY COMPACTED BY HAND. DIMENSION Y: 1/6BC OR 100MM UNDER BARRELS, AND 50mm UNDER SOCKETS

WHICHEVER IS GREATER (SUBJECT TO 400MM MAX.). DN = NOMINAL BORE OF PIPE.

BC = EXTERNAL DIAMETER OF PIPE BARREL

TRENCH WIDTH

1. THE MAXIMUM TRENCH WIDTHS ARE TO BE AS SHOWN BELOW UNLESS THE APPROVAL OF THE ENGINEER IS OBTAINED.

INTERNAL PIPE DIAMETER	MAXIMUM TRENCH WIDTH
100	600
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
975	2000
1050	2100

2300

1200

Rev. Date Made by Amendments

P01 10.06.22 CH ISSUED FOR PLANNING

This drawing is to be read in conjunction with all relevant architects', engineers', and specialists' drawings, bills of quantities and specifications.
Do not scale off this drawing.
All dimensions are to be confirmed on site by the contractor.

4. Refer to MHA drawing 130 for all general notes.

PLANNING

P02 08.09.23 FJ



London +44 (0)207 375 6340 Cambridge +44 (0)1223 776340

ADDITIONAL DRAINAGE DETAILS ADDED.

BEECHES FARM, **TRING**

Job No

PROPOSED DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 2

1:200 @ A1 10.06.22

21026

Checked