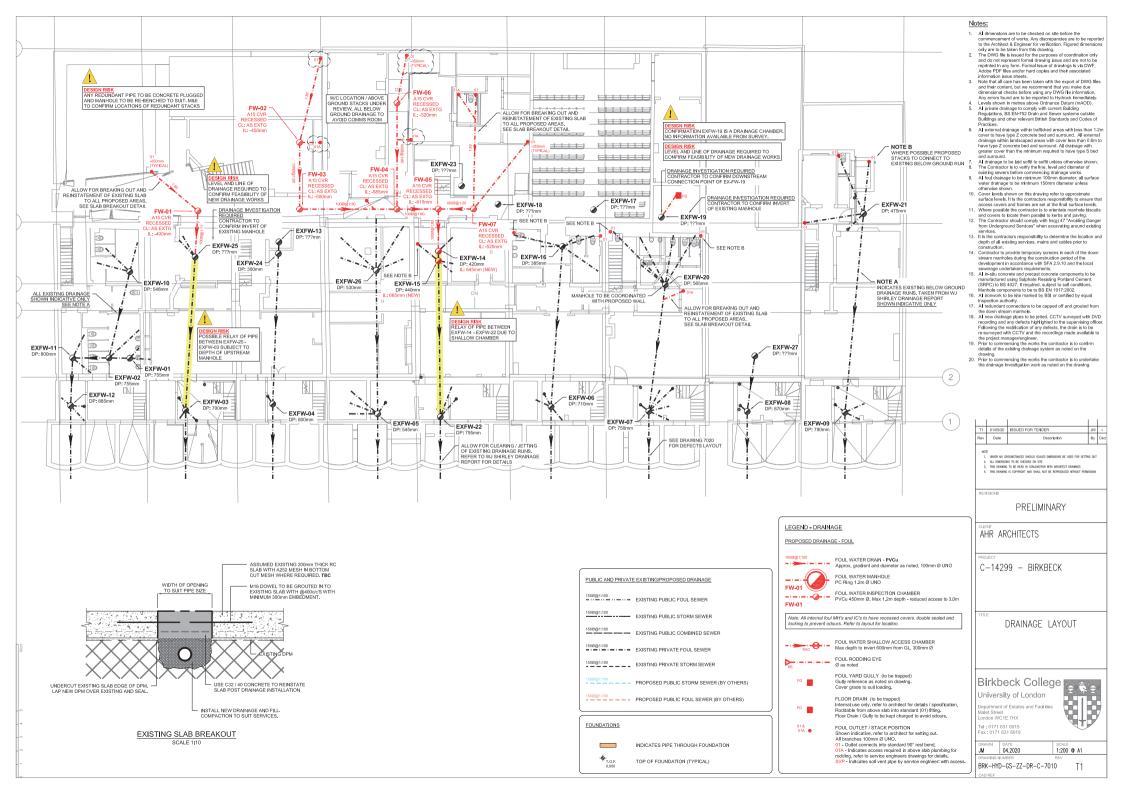
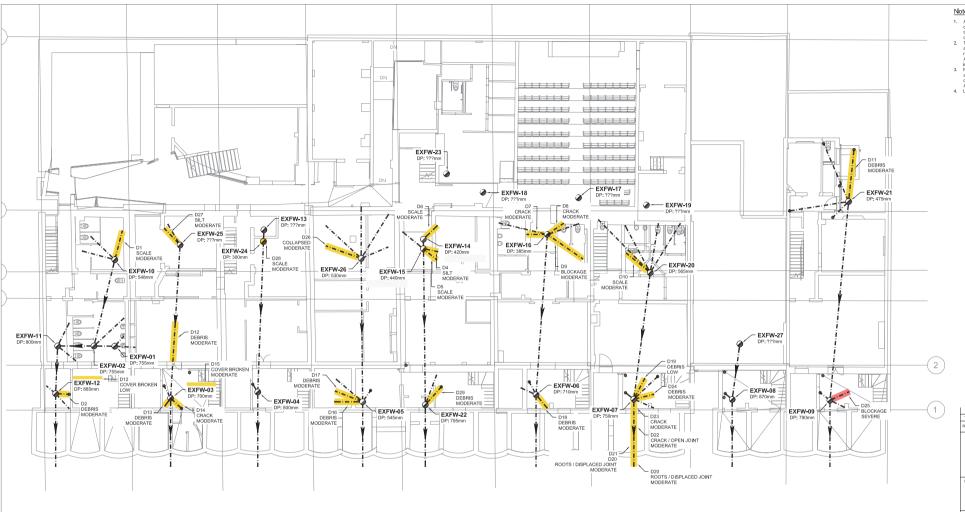


Appendix D: Civils drawings





TO BE READ IN CONJUNCTION WITH WJ SHIRLEY DRAINAGE REPORT

- 1 All dimensions are to be checked on site before the
- 1. All dimensions are to be checked on site before the commensioner of works. Any discrepancies are to be reported to the Archheid & Engineer for verification. Figured dimensions only are by teather intern this discrepancies are obtained on the second of the second

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T1	01/05/20	ISSUED FOR TENDER	JM	-	
Rev	Date	Description	By	Ckd	

- UNDER NO ORIGINISTANCES SHOULD SCALED DIMENSIONS BE USED FOR SETTING OUT
- UMBLER NO CHROLIES FOR SECTION STEELS DIMENSIONS BE USED FOR SETTING OUT.
 ALL DIMENSIONS TO BE CHECKED ON SITE.
 THIS DERAMING TO BE FEED IN CONJUNCTION WITH ARCHITECT DRAWINGS.
 THIS DRAWING IS COPPRICHT AND SHALL NOT BE REPRODUCED WITHOUT PERMISSION.

REVISIONS

PRELIMINARY

AHR ARCHITECTS

C-14299 - BIRKBECK

DRAINAGE DEFECTS LAYOUT

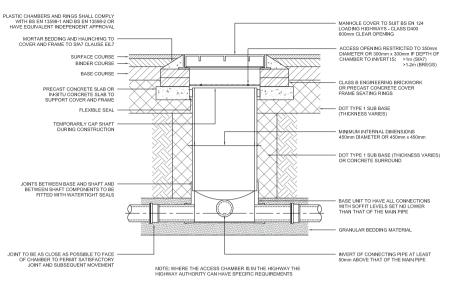
Birkbeck College

University of London Department of Estates and Facilities Malet Street London WC1E 7HX

Tel: 0171 631 6015 Fax: 0171 631 6019

JM DATE 04.2020 1:200 @ A1

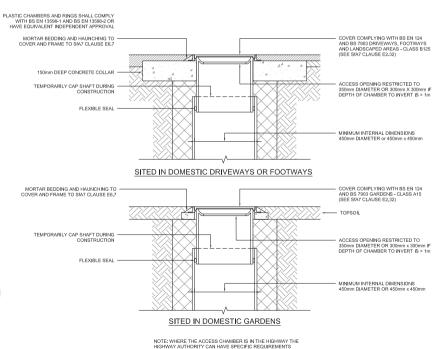
BRK-HYD-GS-ZZ-DR-C-7020 T1



TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3 (Flexible material detail)

SCALE 1:10

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON-ENTRY



ALTERNATIVE TOP DETAILS FOR LIGHT VEHICLE LOADING AND LANDSCAPED AREAS - TYPE 3

USE OF GRANULAR BEDDING MATERIAL:

NOMINAL	AGGREGATE SIZE (mm)		
BORE OF	SINGLE SIZED	GRADED	
PIPE (min)			
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 OR 20	14 TO 5 OR 20 TO 5	
EXCEEDING	14,20 OR 40	14 TO 5 OR 20 TO 5	
525		40 TO 5	

CONCRETE SURROUND

DIM X ≥ 100mm FOR PIPES ≤ 100mmØ DIM X > 200mm FOR PIPES TRENCHES IN ROCK

- 1 * = 150 FOR PIPES DIAMETER UP TO 300mm * = 200mm FOR PIPE DIAMETERS OVER 300mm@
- BASED ON NARROW TRENCH THEORY: DESIGNER TO CONFIRM FOR SPECIFIC PIPELINE.

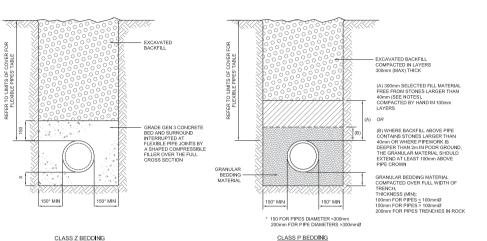
2. BACKFILL MATERIAL TO BE SELECTED EXCAVATED MATERIAL WHERE THIS MATERIAL COMPLIES WITH CESWI. ADDITIONAL MATERIAL TO MAKE UP ANY DEFICIENCY TO BE GRANULAR SUB-BASE TYPE 1 UNLESS STATED OTHERWISE.

- 3. IN WET, SOFT, OR SILTY SOILS, WHERE LATERAL SUPPORT IS NOT OBTAINED, OR WHERE 3. IN WE1, SUP1, UK SIL11 SOILS, WHERE DATE RALL SUPPORT IS NOT GETAINED OR WI FINES MAY MIGRATE, THE GRANULAR BEDDING MATERIAL SHALL BE SURROUNDED BY GEOTEXTILE FABRIC WITH MIN 200 OVERLAP.
- 4. TRENCH BACKFILL TO MEET HIGHWAY SPECIFICATION WHEN LAID IN ROAD OR FOOTPATH.

- 1 All dimensions are to be checked on site before the
- All dimensions are to be checked on site before the commencement of works. Any discopencies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawley.

 The DVMG file is issued for the purposes of coordination only. The DVMG file is issued for the purposes of coordination only. The DVMG file is issued for the purposes of coordination only. The DVMG file is issued for the purposes of coordination only. The DVMG file is an object to the purpose of coordination of the purpose of the purpose of the purpose of the purpose of the DVMG file and for hard copies and their associated information issues wheels.

 Note that all care has been taken with the export of DVMG files and their content, but we recommend that you make due dimensional chuds before using any DVMG file information. Any errors Sund are to be resported to hybrox limmodituely.



TYPICAL PIPE BEDDING FOR PIPES UP TO 800mm DIA

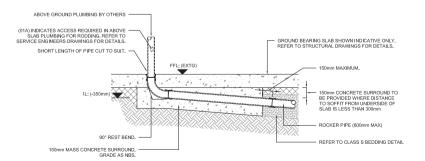
SCALE 1:10

FOR AREAS ADOPTED HIGHWAYS	FOR AREAS SUBJECT TO LIGHT VEHICULAR ACCESS	FOR AREAS NOT UNDER ROADS OR BUILDINGS
USE CLASS P BEDDING WHERE COVER IS: 1.2m Min & 8.0m Max - FOR 100mm DIA PIPES 1.2m Min & 4.0m Max - FOR 150mm DIA PIPES OR GREATER FOR DEFINITION OF AREAS OF ADOPTED HIGHWAY	USE CLASS P BEDDING WHERE COVER IS: 0.9m Min & 8.0m Max - FOR 100mm DIA PIPES 0.9m Min & 5.0m Max - FOR 150mm DIA PIPES OR GREATER FOR DEFINITION OF AREAS OF VEHICLE ACCESS	USE CLASS P BEDDING WHERE COVER IS: 0.6m Min & 8.0m Max - FOR 100mm DIA PIPES 0.6m Min & 5.0m Max - FOR 150mm DIA PIPES OR GREATER
SEE LAYOUT DRG	SEE LAYOUT DRG	
WHERE COVER IS LESS THAN THE ABOVE:	WHERE COVER IS LESS THAN THE ABOVE:	
FOR UPVC PIPE USE OPTION 1 CLASS Z + REINFORCEMENT OR OPTION 2 CLASS Q BEDDING + RC SLAB PROTECTION. R	FOR UPVC PIPE USE CLASS Z	

NOTE: REFERENCE SHOULD BE MADE TO PIPE MANUFACTURER/SUPPLIER TO CONFIRM THE LIMITS OF COVER NOTED ABOVE ARE ACCEPTABLE

LIMITS OF COVER TO FLEXIBLE (PVCu) PIPES

BS EN 752 & BUILDING REGS PART I



TYPICAL INTERNAL OUTLET: 01 & 01A FOR GROUND BEARING SLAB

SCALE 1:20 (REFER TO C-7010 FOR LOCATION)

ALL DIMENSIONS TO BE CHEDUED ON SITE THIS DRAWING TO BE READ IN COMMINISTION WITH ARCH THIS DRAWING IS COPPRIENT AND SHALL NOT BE REPRO
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AHR ARCHITECTS
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DRAINAGE DET SHEET 2
Diulibaali Callaga
Birkbeck College
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Department of Estates and Facilities Malet Street London WC1E 7HX

04.2020

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Description UNDER NO CIRCUNSTANCES SHOULD SCALED DIMENSIONS BE USED FOR SETTING OUT KED ON SITE DRED ON SITE. IN CONJUNCTION WITH ARCHITECT DRAWNGS. 1 AND SHALL NOT BE REPRODUCED WITHOUT PERMISSION RELIMINARY CTS BIRKBECK IAGE DETAILS SHEET 2