



DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

DUCTS

1. ALL DIMENSIONS ARE ON MILLIMETRES UNLESS STATED OTHERWISE.

2. ALL LIGHTING DUCTS TO BE BLACK COLOURED POLYTHYLENE AS PER APPENDIX 5/2 OF "SPECIFICATION FOR HIGHWAYS WORKS".

3. DUCT BEDDING MATERIAL TO CLAUSE 503.3(ii) OF "SPECIFICATION FOR HIGHWAYS WORKS", BUT OF MAXIMUM AGGREGATE SIZE OF 2mm, e.g WASHED SAND.

4. WARNING TAPE TO BE AS PER CLAUSE 1421.14 OF "SPECIFICATION FOR HIGHWAYS WORKS".

LIGHTNING COLUMNS

1. PLANTING DEPTH AND FOUNDATION DETAIL TO BE DETERMINED IN ACCORDANCE WITH BS 5649: PART 2: 1978 APPENDIX B. FOUNDATION CALCULATIONS SHALL BE AGREED WITH THE OVERSEEING ORGANISATION PRIOR TO INSTALLATION.

DUCTING CHAMBER

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN. SERVICE DUCT CHAMBER - PERMITTED CONSTRUCTIONS

2A. BRICK CONSTRUCTION
BRICKWORK TO COMPLY WITH RELEVANT SECTIONS OF "SPECIFICATION FOR HIGHWAY WORKS" CONSTRUCTED IN CLASS B ENGINEERING BRICKS TO BS 3921, SURROUNDED BY CLASS ST4 CONCRETE 150 THICK.

2B. UNSITU CONCRETE CONSTRUCTION
(PLASTIC UNITS OR SIMILAR APPROVED) TO COMPLY WITH RELEVANT SECTIONS OF "SPECIFICATION FOR HIGHWAY WORKS" CONSTRUCTED IN CLASS B ENGINEERING BRICKS TO BS 3921, SURROUNDED BY CLASS ST4 CONCRETE 150 THICK.

2C. PRECAST CONCRETE CONSTRUCTION
TO COMPLY WITH THE RELEVANT SECTIONS OF "SPECIFICATION FOR HIGHWAY WORKS" P.C.C. CHAMBERS TO COMPLY WITH BS 5911 PART 200, SURROUNDED BY CLASS ST4 CONCRETE 150 THICK.

3. DEPTH OF INVERT NOT TO EXCEED 900.

4. CHAMBER MUST BE ALIGNED WITH THE CLOSEST STRUCTURE IE: WALL, KERB, PILLAR.

5. GRADE B COVERS AND FRAMES WHICH ARE SUPPORTED BY ALL FOUR WALLS OF THE CHAMBER ARE TO BE USED UNLESS OTHERWISE DIRECTED.

6. DUCTS CAN ENTER THE CHAMBER AT ANY ANGLE.

7. SPARE DUCTS ARE TO BE INSTALLED, AND CAPPED, THROUGH CHAMBER WALL AND CONCRETED AS AGREED WITH THE ENGINEER. MINIMUM OF ONE EACH SIDE.

8. THE TYPE, CONSTRUCTION AND LOCATION OF ALL CHAMBERS SHALL BE AGREED WITH THE ENGINEER BEFORE INSTALLATION

9. A TYPE 2B CHAMBER IS ILLUSTRATED AS A GUIDE ONLY.

LEGEND

(1No.)

PROPOSED ELECTRICITY DUCTING (1x1000Ø) WITH DRAW-STRING

(2No.)

PROPOSED INCOMING WATER SUPPLY (1x1000Ø) 32Ø MDPE

(3No.)

PROPOSED INCOMING TELECOMS (1x1000Ø) DUCT TO BE SUPPLIED BY BT AND INSTALLED BY MAIN CONTRACTOR

DP1

PROPOSED DRAW PIT

LC

8m HIGH LIGHTING COLUMN

P01	APR'19	TAT	TENDER ISSUED	ALS	ALS
REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
STATUS DESCRIPTION				STATUS	
TENDER				D2	

HBL

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Consulting Civil & Structural Engineers

PROJECT

HAZARDOUS WASTE TRANSFER STATION
LAMBY WAY, CARDIFF

DRAWING TITLE

DUCT PLAN

CLIENT

VASTINT

HBL REF.

7511

SCALE(S)

1:200

DATE

APRIL 2019

DRAWN

T.A.TAYLOR

CHECKED

A.L.SMITH

APPROVED

A.L.SMITH

DRAWING No.

7511-HBL-XX-XX-DR-C-0105

REV.

P01