

**Project Information**Project Name  
**Brunel House**

Client's ref :

Contractor's ref :

Date:  
**04/05/2017**

Description      WinCan Import in Miraculix WRc4 Standard

**Client**

Company:                      Sample Company LTD  
Contact:                        Mrs Smith  
Department:  
Street:  
City:  
Phone:                         07565622332  
Fax:  
Mobile:  
E-Mail:                         Info@SampleCompany.Co.Uk

**Site**

Company:                      Sample Survey  
Contact:  
Department:  
Street:  
City:  
Phone:  
Fax:  
Mobile:  
E-Mail:

**Contractor**

Company:                      Jonny's Drains  
Contact:  
Department:  
Street:  
City:  
Phone:                         07572442605  
Fax:  
Mobile:  
E-Mail:



# Site Report

Date: 26-4-17

Address: Sample Survey Address

We attended site to conduct a CCTV drain survey of all underground drains, to provide drawings outlining their locations and to provide recommendations for remedial works that may be required.

## **Drainage system overview**

There are two separate drainage systems, foul and surface water that serve this site.

The surface water drainage system located in the carpark runs via a three-stage petrol interceptor before running under Brunel house to SWMH7 located at the front of the building, this is believed to be a 900mm diameter pipe that leaves the site before entering the main sewer.

All surface water drains were unblocked and extensively cleaned using high pressure water jetting to ensure accurate reporting, this was due to stones entering the system.

The internal foul drainage system is made of cast iron, access to some internal junctions are via burns chambers although only one chamber is accessible via an inspection cover, others appear to have been covered over with cement/screed (see drawing).

The foul drainage system discharges to the main sewer located to college Street, this was blocked on arrival but further investigation found this to be due to a collapsed main sewer that southern water has rectified. Once the water level in the main sewer had dropped, the survey of the foul drains could be carried out.

## **Recommendations**

### Surface Water Drains

Three stage petrol interceptor requires emptying using tanker as sludge build-up is blocking the discharge of the first pit.

#### SWMH6

Inspection chamber cover could not be lifted due to bolt being corroded on, this should be cut out using angle grinder to enable access.

#### SWMH9 - Branch 1

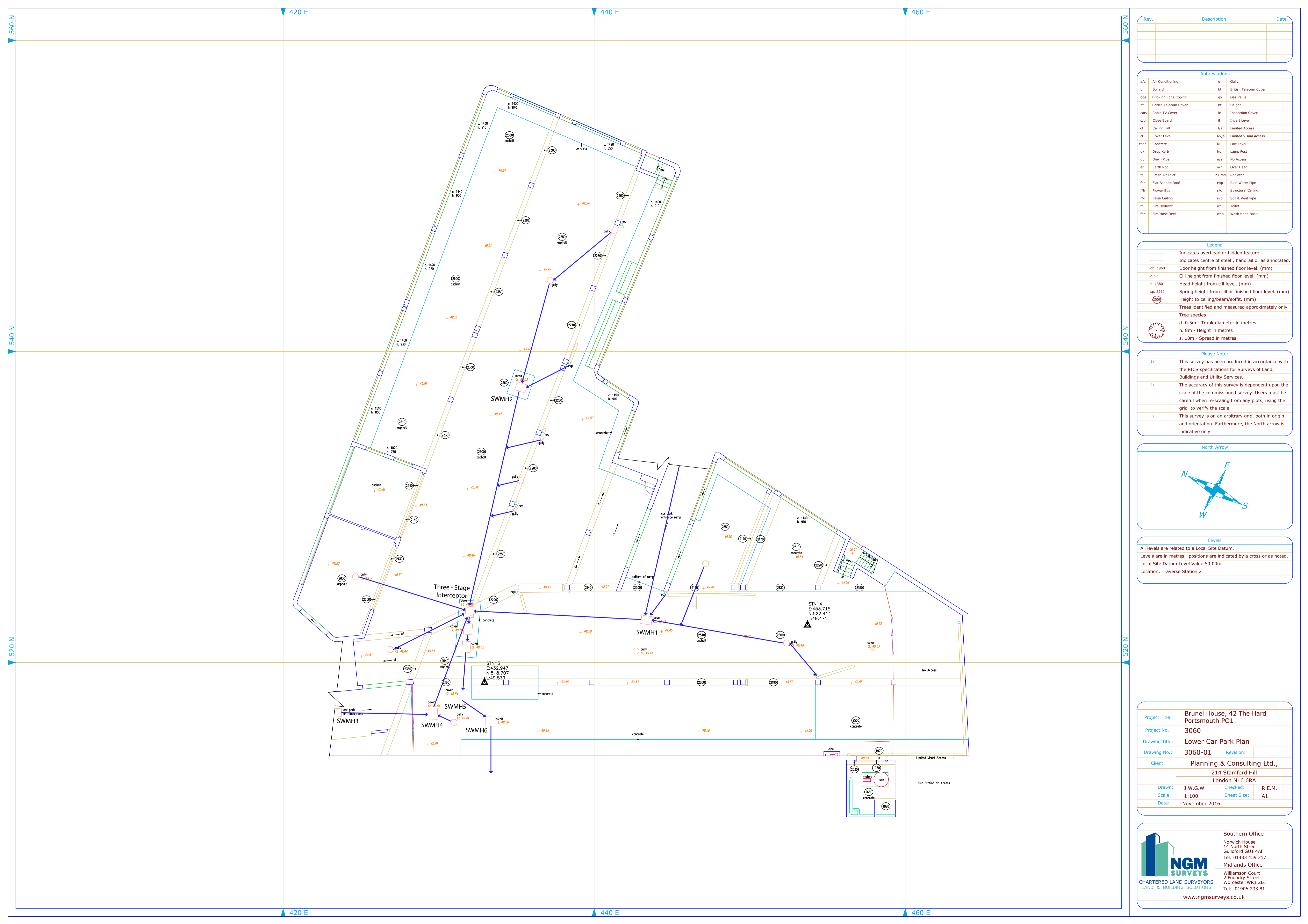
150mm drain run taking gully is fractured in two separate places and requires relining to prevent future damage approx. 8 metres in length.

#### FMH1 - Main Run

150mm Main run is fractured at 4.15metres and requires a patch liner.

### Invert Measurements

Node	Depth (m)	Main Run Diameter
SWMH1	0.60	150mm
SWMH2	0.50	150mm
SWMH3	1.35	150mm
SWMH4	0.55	150mm
SWMH5	0.90	150mm
SWMH6	n/a	
SWMH7	2.45	900mm
SWMH8	1.40	150mm
SWMH9	0.95	150mm
3 Stage Interceptor	2.5	
FMH1	1.05	150mm
FMH2	0.70	150mm
FMH3	1.00	150mm
FMH4	1.46	150mm

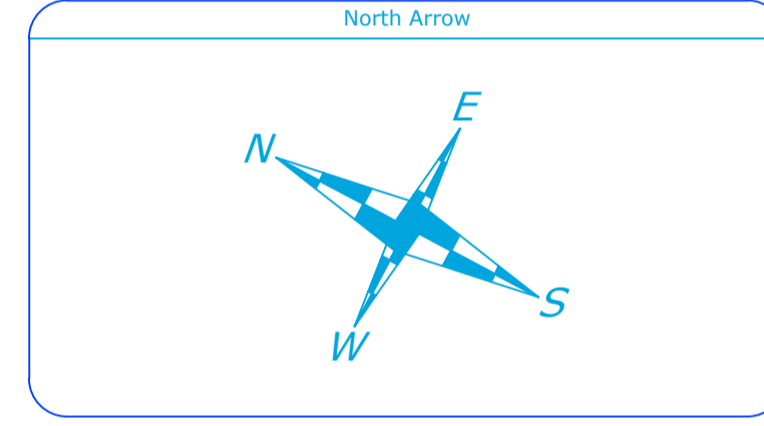


Rev.	Description.	Date

Abbreviations			
a/c	Air Conditioning	g	Gully
b	Bollard	bt	British Telecom Cover
boe	Brick on Edge Coping	gv	Gas Valve
bt	British Telecom Cover	ht	Height
catv	Cable TV Cover	ic	Inspection Cover
c/b	Close Board	il	Invert Level
cf	Ceiling Fall	l/a	Limited Access
cl	Cover Level	l/v/a	Limited Visual Access
conc	Concrete	ll	Low Level
dk	Drop Kerb	lp	Lamp Post
dp	Down Pipe	n/a	No Access
er	Earth Rod	o/h	Over Head
fai	Fresh Air Inlet	r / rad	Radiator
far	Flat Asphalt Roof	rwp	Rain Water Pipe
f/b	Flower Bed	s/c	Structural Ceiling
f/c	False Ceiling	svp	Soil & Vent Pipe
fh	Fire Hydrant	wc	Toilet
fhr	Fire Hose Reel	whb	Wash Hand Basin

Legend	
	Indicates overhead or hidden feature.
	Indicates centre of steel, handrail or as annotated.
dh. 1960	Door height from finished floor level. (mm)
c. 950	Cill height from finished floor level. (mm)
h. 1380	Head height from cill level. (mm)
sp. 2250	Spring height from cill or finished floor level. (mm)
	Height to ceiling/beam/soffit. (mm)
	Trees identified and measured approximately only
	Tree species
	d. 0.5m - Trunk diameter in metres
	h. 8m - Height in metres
	s. 10m - Spread in metres

- Please Note:**
- 1) This survey has been produced in accordance with the RICS specifications for Surveys of Land, Buildings and Utility Services.
  - 2) The accuracy of this survey is dependent upon the scale of the commissioned survey. Users must be careful when re-scaling from any plots, using the grid to verify the scale.
  - 3) This survey is on an arbitrary grid, both in origin and orientation. Furthermore, the North arrow is indicative only.



**Levels**

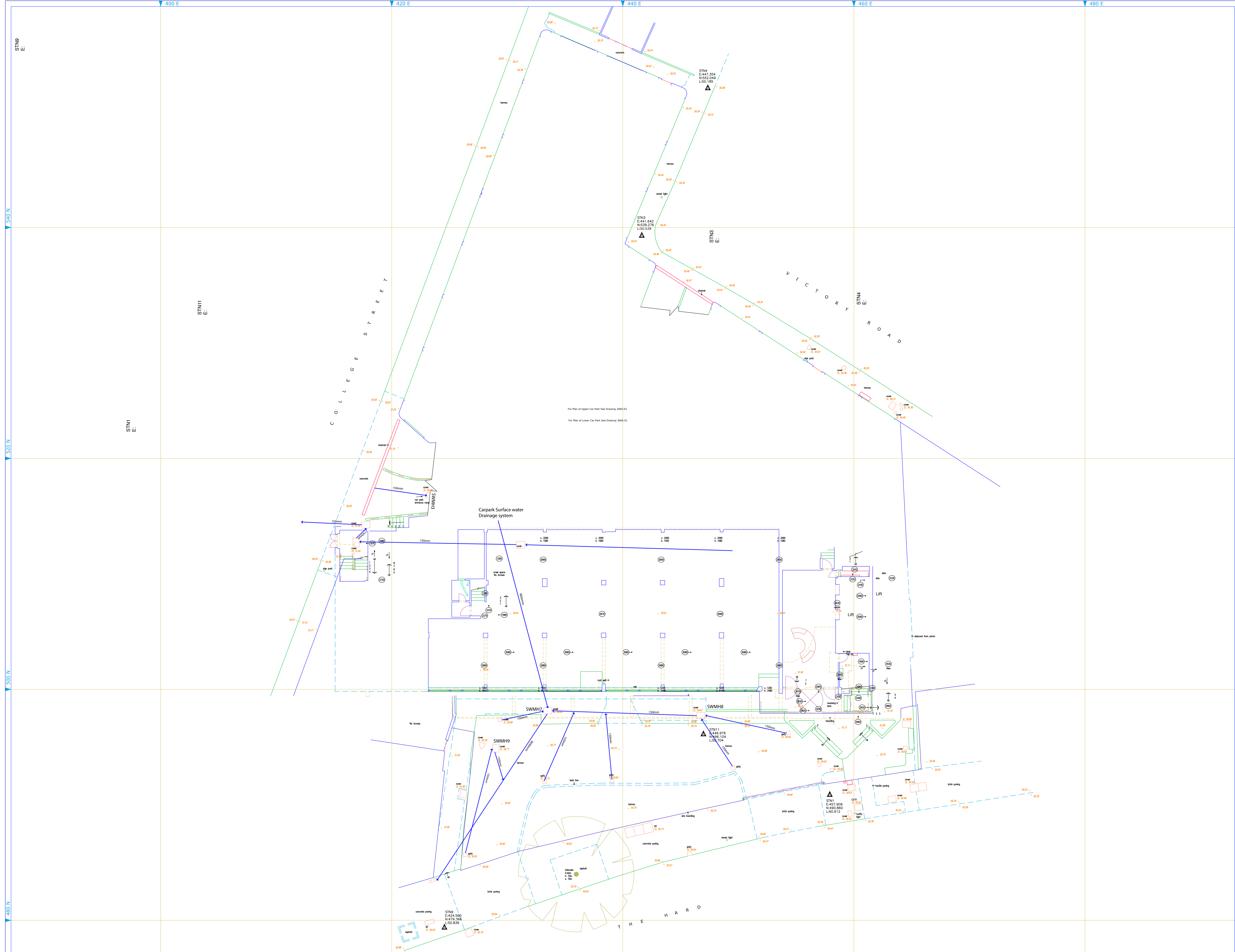
All levels are related to a Local Site Datum.  
 Levels are in metres, positions are indicated by a cross or as noted.  
 Local Site Datum Level Value 50.00m  
 Location: Traverse Station 2

Project Title:	Brunel House, 42 The Hard Portsmouth PO1		
Project No.:	3060		
Drawing Title:	Lower Car Park Plan		
Drawing No.:	3060-01	Revision:	
Client:	Planning & Consulting Ltd., 214 Stamford Hill London N16 6RA		
Drawn:	J.W.G.W	Checked:	R.E.M.
Scale:	1:100	Sheet Size:	A1
Date:	November 2016		

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 Norwich House  
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 2 Foundry Street  
 Worcester WR1 3B3  
 Tel: 01905 233 81



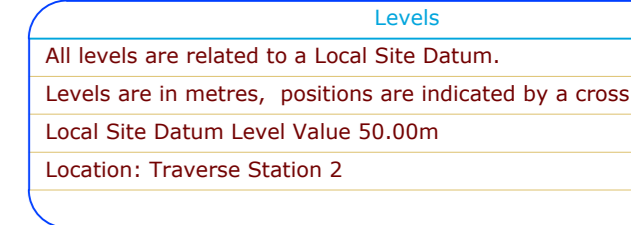
Rev.	Description

Abbreviations			
ac	Air Conditioning	S	Sully
b	Ballard	st	British Telecom Cover
bc	Brick on Edge Casing	sv	Gas Valve
bt	British Telecom Cover	st	Height
cc	Cable TV Cover	sc	Inspection Cover
cb	Close Board	il	Invert Level
cf	Ceiling Fan	la	Limited Access
cl	Cover Level	lva	Limited Visual Access
ccmc	Concrete	ll	Low Level
ch	Chop Surch	lps	Lamp Post
cp	Down Pipe	na	No Access
er	Earth Rod	oh	Over Head
fa	Fresh Air Inlet	r/r	Radiator
fb	Flat Insulation Board	rw	Rain Water Pipe
fl	Flower Bed	sc	Structural Casing
fc	Fibre Ceiling	svp	Soil & Vent Pipe
fh	Fire Hydrant	tc	Ticket
fr	Fire Hose Reel	wb	Wash Hand Basin

- Legend**
- Indicates overhead or hidden features.
  - - - Indicates centre of steel, handrail or as a
  - dh 1360 Door height from finished floor level. (mm)
  - cl 950 Cill height from finished floor level. (mm)
  - h 1360 Head height from cill level. (mm)
  - sh 2200 Spring height from cill or finished floor level
  - ht Height to ceiling/beam/soffit. (mm)
  - Trees identified and measured approximately
  - Tree species
  - d 0.5m = Trunk diameter in metres
  - h. 8m = Height in metres
  - s. 10m = Spread in metres

**Please Note:**

- This survey has been produced in accordance with the RICS specifications for Surveys of Land Buildings and Utility Services.
- The accuracy of this survey is dependent on the scale of the commissioned survey. Users should be careful when re-scaling from any plots, using a grid to verify the scale.
- This survey is on an arbitrary grid, both in position and orientation. Furthermore, the North arrow is indicative only.



**Levels**

All levels are related to a Local Site Datum.  
Levels are in metres, positions are indicated by a cross or a dot.  
Local Site Datum Level Value 50.00m  
Location: Traverse Station 2

Project Title:	Brunel House, 42 The Hard Portsmouth PO1
Project No.:	3060
Drawing Title:	Ground Floor & Site Plan
Client:	Planning & Consulting Ltd 214 Stamford Hill London N16 6RA
Drawn:	J.W.G.W. R.E.
Scale:	1:100
Date:	November 2016

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Guildford GU1 4AF  
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**Midlands Office**  
Williamson Court  
2 Foundry Street  
Worcester WR1 2BJ  
Tel: 01905 233 91

## Inspection Report

Section Number : <b>1</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>Gully1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH1 &lt; Gully1</b>	US MH: <b>Gully1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>6.53</b>	DS MH: <b>SWMH1</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.60</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:56	Position m	Code	Observation	MPEG	Photo	Grade																								
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p><b>Depth: 0.60</b> <b>SWMH1</b></p>  <p style="margin-top: 20px;"><b>Gully1</b> <b>Depth: 0.00</b></p> </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH1</td> <td style="width: 10%;">00:00:02</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:04</td> <td></td> <td>0</td> </tr> <tr> <td>0.43</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm</td> <td>00:00:22</td> <td></td> <td>0</td> </tr> <tr> <td>6.53</td> <td>GYF</td> <td>Finish node type gully reference number: Gully1</td> <td>00:01:04</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH1	00:00:02		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0	0.43	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:22		0	6.53	GYF	Finish node type gully reference number: Gully1	00:01:04		0
0.00	MH	Start node type manhole reference number: SWMH1	00:00:02		0																									
0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0																									
0.43	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:22		0																									
6.53	GYF	Finish node type gully reference number: Gully1	00:01:04		0																									

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

### Section Pictures - 24/04/2017 - Gully1X

Section Number : <b>1</b>	Survey Direction : <b>SWMH1 ↑ Gully1</b>	PLR : <b>Gully1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:22, 0.43m  
Junction from/at 9 o'clock diameter: 150 mm



, 00:01:04, 6.53m  
Finish node type gully reference number: Gully1

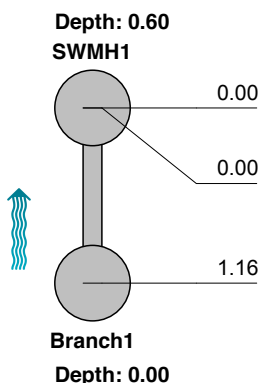
## Inspection Report

Section Number : <b>2</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>Branch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH1 &lt; Branch1</b>	US MH: <b>Branch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>1.16</b>	DS MH: <b>SWMH1</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.60</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node type manhole reference number: SWMH1	00:00:01		0
	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0
	1.16	SA	Survey abandoned: Enters bottom of RWDP	00:00:37		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



## Section Pictures - 24/04/2017 - Branch1X

Section Number : <b>2</b>	Survey Direction : <b>SWMH1 ↑ Branch1</b>	PLR : <b>Branch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:37, 1.16m  
Survey abandoned / Enters bottom of RWDP

## Inspection Report

Section Number : <b>3</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>Branch2X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH1 &lt; Branch2</b>	US MH: <b>Branch2</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>8.57</b>	DS MH: <b>SWMH1</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.60</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:73	Position m	Code	Observation	MPEG	Photo	Grade																		
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>Depth: 0.60</b></p> <p><b>SWMH1</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">0.00</td> <td style="width: 10%; text-align: center;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH1</td> <td style="width: 10%; text-align: center;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td>Water level 0 % of the vertical dimension</td> <td style="text-align: center;">00:00:02</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">8.57</td> <td style="text-align: center;">SA</td> <td>Survey abandoned: Enters bottom of RWDP</td> <td style="text-align: center;">00:00:50</td> <td></td> <td style="text-align: center;">0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH1	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	8.57	SA	Survey abandoned: Enters bottom of RWDP	00:00:50		0
0.00	MH	Start node type manhole reference number: SWMH1	00:00:00		0																			
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																			
8.57	SA	Survey abandoned: Enters bottom of RWDP	00:00:50		0																			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p><b>Branch2</b></p> <p><b>Depth: 0.00</b></p> </div> </div>																								

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

### Section Pictures - 24/04/2017 - Branch2X

Section Number : <b>3</b>	Survey Direction : <b>SWMH1 ↑ Branch2</b>	PLR : <b>Branch2X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:50, 8.57m  
Survey abandoned / Enters bottom of RWDP

## Inspection Report

Section Number : <b>4</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH1 ® 3-stage</b>	US MH: <b>SWMH1</b>
Road:	Catchment:	US Depth: <b>0.60</b>
Location: <b>Under a permanent building</b>	Total Length: <b>8.69</b>	DS MH: <b>3-stage</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:74	Position m	Code	Observation	MPEG	Photo	Grade																								
<div style="display: flex; align-items: flex-start;"> <div style="width: 25%;"> <p><b>Depth: 0.60</b> <b>SWMH1</b></p>  </div> <table border="1" style="width: 75%; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH1</td> <td style="width: 10%;">00:00:00</td> <td style="width: 5%;"></td> <td style="width: 5%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td>1.43</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm</td> <td>00:00:16</td> <td></td> <td>0</td> </tr> <tr> <td>8.69</td> <td>MHF</td> <td>Finish node type manhole reference number: 3-stage</td> <td>00:00:57</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH1	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	1.43	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:16		0	8.69	MHF	Finish node type manhole reference number: 3-stage	00:00:57		0
0.00	MH	Start node type manhole reference number: SWMH1	00:00:00		0																									
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																									
1.43	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:16		0																									
8.69	MHF	Finish node type manhole reference number: 3-stage	00:00:57		0																									

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

### Section Pictures - 24/04/2017 - SWMH1X

Section Number : <b>4</b>	Survey Direction : <b>SWMH1 ↓ 3-stage</b>	PLR : <b>SWMH1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
------------------------------	--	------------------------	-----------------------------	--------------------



, 00:00:16, 1.43m  
Junction from/at 9 o'clock diameter: 150 mm



, 00:00:57, 8.69m  
Finish node type manhole reference number: 3-stage

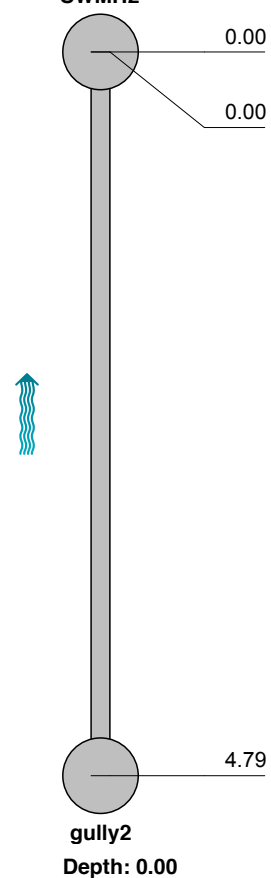
## Inspection Report

Section Number : <b>5</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>gully2X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH2 &lt; gully2</b>	US MH: <b>gully2</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>4.79</b>	DS MH: <b>SWMH2</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.50</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																					
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>Depth: 0.50</b> <b>SWMH2</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH2</td> <td style="width: 10%;">00:00:05</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:07</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>4.79</td> <td>GYF</td> <td>Finish node type gully reference number: gully2</td> <td>00:00:40</td> <td></td> <td>0</td> </tr> </table> </div>								0.00	MH	Start node type manhole reference number: SWMH2	00:00:05		0		0.00	WL	Water level 0 % of the vertical dimension	00:00:07		0		4.79	GYF	Finish node type gully reference number: gully2	00:00:40		0
	0.00	MH	Start node type manhole reference number: SWMH2	00:00:05		0																					
	0.00	WL	Water level 0 % of the vertical dimension	00:00:07		0																					
	4.79	GYF	Finish node type gully reference number: gully2	00:00:40		0																					

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

### Section Pictures - 24/04/2017 - gully2X

Section Number : <b>5</b>	Survey Direction : <b>SWMH2 ↑ gully2</b>	PLR : <b>gully2X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:40, 4.79m  
Finish node type gully reference number: gully2



## Inspection Report

Section Number : <b>6</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>branch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH2 &lt; branch1</b>	US MH: <b>branch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>2.44</b>	DS MH: <b>SWMH2</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.50</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
	2.44	SA	Survey abandoned: Enters bottom of RWDP	00:00:43		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



### Section Pictures - 24/04/2017 - branch1X

Section Number : <b>6</b>	Survey Direction : <b>SWMH2 ↑ branch1</b>	PLR : <b>branch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:43, 2.44m  
Survey abandoned / Enters bottom of RWDP

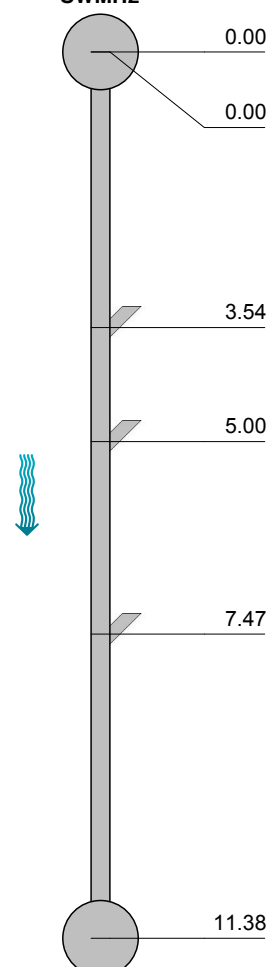
## Inspection Report

Section Number : <b>7</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH2X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH2 ® 3-Stage</b>	US MH: <b>SWMH2</b>
Road:	Catchment:	US Depth: <b>0.50</b>
Location: <b>Under a permanent building</b>	Total Length: <b>11.38</b>	DS MH: <b>3-Stage</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:97	Position m	Code	Observation	MPEG	Photo	Grade																																				
<div style="display: flex; align-items: flex-start;"> <div style="width: 20%; text-align: right;"> <p><b>Depth: 0.50</b> <b>SWMH2</b></p>  </div> <table border="1" style="width: 80%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH2</td> <td style="width: 10%;">00:00:01</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:03</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">3.54</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm: RWDP</td> <td>00:00:26</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">5.00</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm: gully</td> <td>00:00:46</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">7.47</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm: RWDP</td> <td>00:01:01</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">11.38</td> <td>MHF</td> <td>Finish node type manhole reference number: 3-Stage</td> <td>00:01:45</td> <td></td> <td style="text-align: center;">0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH2	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0	3.54	JN	Junction from/at 9 o'clock diameter: 150 mm: RWDP	00:00:26		0	5.00	JN	Junction from/at 9 o'clock diameter: 150 mm: gully	00:00:46		0	7.47	JN	Junction from/at 9 o'clock diameter: 150 mm: RWDP	00:01:01		0	11.38	MHF	Finish node type manhole reference number: 3-Stage	00:01:45		0
0.00	MH	Start node type manhole reference number: SWMH2	00:00:01		0																																					
0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0																																					
3.54	JN	Junction from/at 9 o'clock diameter: 150 mm: RWDP	00:00:26		0																																					
5.00	JN	Junction from/at 9 o'clock diameter: 150 mm: gully	00:00:46		0																																					
7.47	JN	Junction from/at 9 o'clock diameter: 150 mm: RWDP	00:01:01		0																																					
11.38	MHF	Finish node type manhole reference number: 3-Stage	00:01:45		0																																					

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 24/04/2017 - SWMH2X**

Section Number : <b>7</b>	Survey Direction : <b>SWMH2 ↓ 3-Stage</b>	PLR : <b>SWMH2X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:26, 3.54m  
Junction from/at 9 o'clock diameter: 150 mm / RWDP



, 00:00:46, 5.00m  
Junction from/at 9 o'clock diameter: 150 mm / gully



, 00:01:01, 7.47m  
Junction from/at 9 o'clock diameter: 150 mm / RWDP

## Inspection Report

Section Number : <b>8</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>Branch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>3-Stage &lt; Branch1</b>	US MH: <b>Branch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>5.61</b>	DS MH: <b>3-Stage</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>2.50</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																								
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p><b>Depth: 2.50</b> <b>3-Stage</b></p>  <p><b>Branch1</b> <b>Depth: 0.00</b></p> </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: 3-Stage</td> <td style="width: 10%;">00:00:01</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:04</td> <td></td> <td>0</td> </tr> <tr> <td>2.38</td> <td>JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm</td> <td>00:00:46</td> <td></td> <td>0</td> </tr> <tr> <td>5.61</td> <td>GYF</td> <td>Finish node type gully reference number: Branch1: gully</td> <td>00:01:15</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: 3-Stage	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0	2.38	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:46		0	5.61	GYF	Finish node type gully reference number: Branch1: gully	00:01:15		0
0.00	MH	Start node type manhole reference number: 3-Stage	00:00:01		0																									
0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0																									
2.38	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:46		0																									
5.61	GYF	Finish node type gully reference number: Branch1: gully	00:01:15		0																									

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

## Section Pictures - 24/04/2017 - Branch1X

Section Number : <b>8</b>	Survey Direction : <b>3-Stage ↑ Branch1</b>	PLR : <b>Branch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:46, 2.38m  
Junction from/at 9 o'clock diameter: 150 mm



, 00:01:15, 5.61m  
Finish node type gully reference number: Branch1 / gully

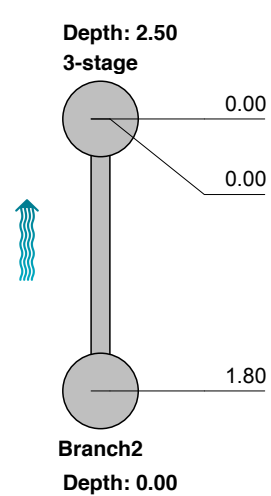
## Inspection Report

Section Number : <b>9</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>Branch2X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>3-stage &lt; Branch2</b>	US MH: <b>Branch2</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>1.80</b>	DS MH: <b>3-stage</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>2.50</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																					
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>Depth: 2.50</b> <b>3-stage</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: 3-stage</td> <td style="width: 10%;">00:00:01</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:03</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>1.80</td> <td>SA</td> <td>Survey abandoned: Enters Bottom of RWDP</td> <td>00:00:23</td> <td></td> <td>0</td> </tr> </table> </div>								0.00	MH	Start node type manhole reference number: 3-stage	00:00:01		0		0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0		1.80	SA	Survey abandoned: Enters Bottom of RWDP	00:00:23		0
	0.00	MH	Start node type manhole reference number: 3-stage	00:00:01		0																					
	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0																					
	1.80	SA	Survey abandoned: Enters Bottom of RWDP	00:00:23		0																					
Structural defects				Constructional features																							
Service and maintenance defects				Miscellaneous features																							

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

## Section Pictures - 24/04/2017 - Branch2X

Section Number : <b>9</b>	Survey Direction : <b>3-stage ↑ Branch2</b>	PLR : <b>Branch2X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:23, 1.80m  
Survey abandoned / Enters Bottom of RWDP

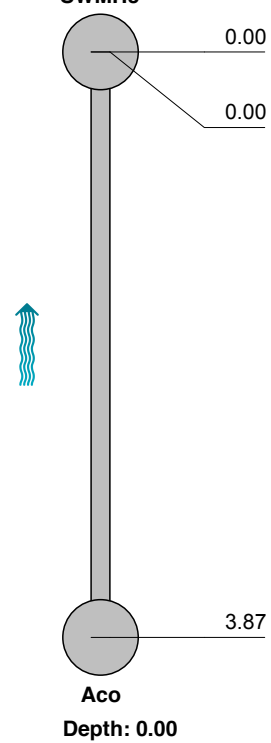
## Inspection Report

Section Number : <b>10</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>AcoX</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH3 &lt; Aco</b>	US MH: <b>Aco</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>3.87</b>	DS MH: <b>SWMH3</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>1.35</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																		
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>Depth: 1.35</b> <b>SWMH3</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH3</td> <td style="width: 10%;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td>3.87</td> <td>GYF</td> <td>Finish node type gully reference number: Aco</td> <td>00:00:37</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH3	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	3.87	GYF	Finish node type gully reference number: Aco	00:00:37		0
0.00	MH	Start node type manhole reference number: SWMH3	00:00:00		0																			
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																			
3.87	GYF	Finish node type gully reference number: Aco	00:00:37		0																			
Structural defects				Constructional features																				
Service and maintenance defects				Miscellaneous features																				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



### Section Pictures - 24/04/2017 - AcoX

Section Number : <b>10</b>	Survey Direction : <b>SWMH3 ↑ Aco</b>	PLR : <b>AcoX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:37, 3.87m  
Finish node type gully reference number: Aco

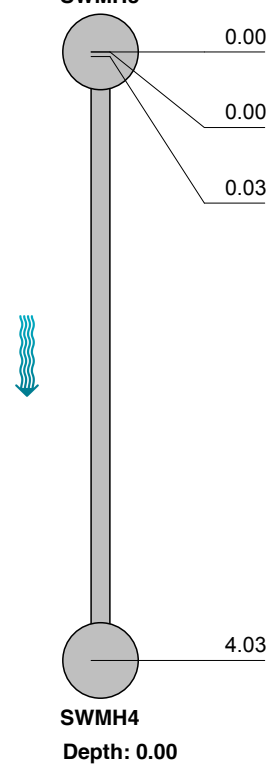
## Inspection Report

Section Number : <b>11</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH3X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH3 ® SWMH4</b>	US MH: <b>SWMH3</b>
Road:	Catchment:	US Depth: <b>1.35</b>
Location: <b>Under a permanent building</b>	Total Length: <b>4.03</b>	DS MH: <b>SWMH4</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																								
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p><b>Depth: 1.35</b> <b>SWMH3</b></p>  </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH3</td> <td style="width: 10%;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td>0.03</td> <td>DEZ</td> <td>Attached deposits other from/at 4 o'clock to 7 o'clock 20 % cross-sectional area loss</td> <td>00:00:21</td> <td></td> <td>4</td> </tr> <tr> <td>4.03</td> <td>MHF</td> <td>Finish node type manhole reference number: SWMH4</td> <td>00:01:13</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH3	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	0.03	DEZ	Attached deposits other from/at 4 o'clock to 7 o'clock 20 % cross-sectional area loss	00:00:21		4	4.03	MHF	Finish node type manhole reference number: SWMH4	00:01:13		0
0.00	MH	Start node type manhole reference number: SWMH3	00:00:00		0																									
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																									
0.03	DEZ	Attached deposits other from/at 4 o'clock to 7 o'clock 20 % cross-sectional area loss	00:00:21		4																									
4.03	MHF	Finish node type manhole reference number: SWMH4	00:01:13		0																									
Structural defects			Constructional features																											
Service and maintenance defects			Miscellaneous features																											

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	1	5.0	1.2	5.0	4.0

## Section Pictures - 24/04/2017 - SWMH3X

Section Number : <b>11</b>	Survey Direction : <b>SWMH3 ↓ SWMH4</b>	PLR : <b>SWMH3X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:21, 0.03m  
Attached deposits other from/at 4 o'clock to 7 o'clock 20 % cross-sectional area loss



, 00:01:13, 4.03m  
Finish node type manhole reference number: SWMH4

## Inspection Report

Section Number : <b>12</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>branch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH4 &lt; branch1</b>	US MH: <b>branch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>0.70</b>	DS MH: <b>SWMH4</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.55</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node type manhole reference number: SWMH4	00:00:01		0
	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0
	0.70	GYF	Finish node type gully reference number: branch1	00:00:21		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

## Section Pictures - 24/04/2017 - branch1X

Section Number : <b>12</b>	Survey Direction : <b>SWMH4 ↑ branch1</b>	PLR : <b>branch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:21, 0.70m  
Finish node type gully reference number: branch1

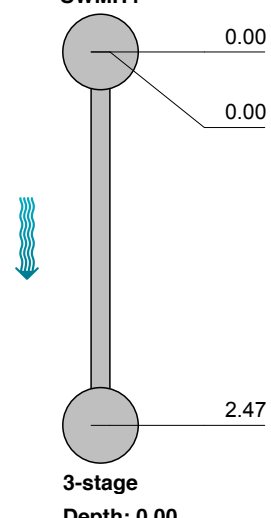
## Inspection Report

Section Number : <b>13</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH4X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH4 ® 3-stage</b>	US MH: <b>SWMH4</b>
Road:	Catchment:	US Depth: <b>0.55</b>
Location: <b>Under a permanent building</b>	Total Length: <b>2.47</b>	DS MH: <b>3-stage</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																					
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>Depth: 0.55</b> <b>SWMH4</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH4</td> <td style="width: 10%;">00:00:04</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:06</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>2.47</td> <td>SA</td> <td>Survey abandoned: Water level in interceptor too high</td> <td>00:00:32</td> <td></td> <td>0</td> </tr> </table> </div>								0.00	MH	Start node type manhole reference number: SWMH4	00:00:04		0		0.00	WL	Water level 0 % of the vertical dimension	00:00:06		0		2.47	SA	Survey abandoned: Water level in interceptor too high	00:00:32		0
	0.00	MH	Start node type manhole reference number: SWMH4	00:00:04		0																					
	0.00	WL	Water level 0 % of the vertical dimension	00:00:06		0																					
	2.47	SA	Survey abandoned: Water level in interceptor too high	00:00:32		0																					

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 24/04/2017 - SWMH4X**

Section Number : <b>13</b>	Survey Direction : <b>SWMH4 ↓ 3-stage</b>	PLR : <b>SWMH4X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:04, 0.00m  
Start node type manhole reference number: SWMH4



, 00:00:32, 2.47m  
Survey abandoned / Water level in interceptor too high

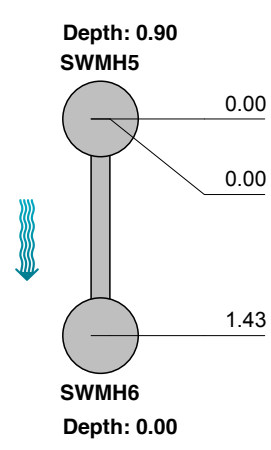
## Inspection Report

Section Number : <b>14</b>	Date : <b>24/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH5X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH5 ® SWMH6</b>	US MH: <b>SWMH5</b>
Road:	Catchment:	US Depth: <b>0.90</b>
Location: <b>Under a permanent building</b>	Total Length: <b>1.43</b>	DS MH: <b>SWMH6</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node type manhole reference number: SWMH5	00:00:01		0
	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0
	1.43	MHF	Finish node type manhole reference number: SWMH6	00:01:18		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



**Section Pictures - 24/04/2017 - SWMH5X**

Section Number : <b>14</b>	Survey Direction : <b>SWMH5 ↓ SWMH6</b>	PLR : <b>SWMH5X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:18, 1.43m

Finish node type manhole reference number: SWMH6

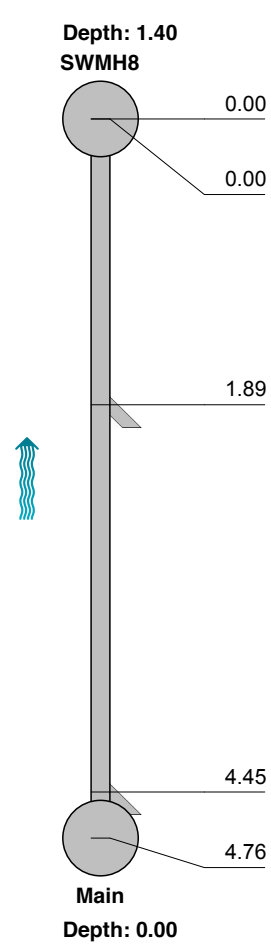
## Inspection Report

Section Number : <b>15</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>MainX</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH8 &lt; Main</b>	US MH: <b>Main</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>4.76</b>	DS MH: <b>SWMH8</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>1.40</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																														
<div style="display: flex; align-items: center;"> <div style="flex: 1;">  </div> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 40%;">Start node type manhole reference number: SWMH8</td> <td style="width: 10%;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td>1.89</td> <td>JN</td> <td>Junction from/at 10 o'clock diameter: 150 mm</td> <td>00:00:47</td> <td></td> <td>0</td> </tr> <tr> <td>4.45</td> <td>JN</td> <td>Junction from/at 10 o'clock diameter: 150 mm</td> <td>00:01:19</td> <td></td> <td>0</td> </tr> <tr> <td>4.76</td> <td>SA</td> <td>Survey abandoned: Enters outlet of storm drain</td> <td>00:01:25</td> <td></td> <td>0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH8	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	1.89	JN	Junction from/at 10 o'clock diameter: 150 mm	00:00:47		0	4.45	JN	Junction from/at 10 o'clock diameter: 150 mm	00:01:19		0	4.76	SA	Survey abandoned: Enters outlet of storm drain	00:01:25		0
0.00	MH	Start node type manhole reference number: SWMH8	00:00:00		0																															
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																															
1.89	JN	Junction from/at 10 o'clock diameter: 150 mm	00:00:47		0																															
4.45	JN	Junction from/at 10 o'clock diameter: 150 mm	00:01:19		0																															
4.76	SA	Survey abandoned: Enters outlet of storm drain	00:01:25		0																															

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 25/04/2017 - MainX**

Section Number : <b>15</b>	Survey Direction : <b>SWMH8 ↑ Main</b>	PLR : <b>MainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:47, 1.89m  
Junction from/at 10 o'clock diameter: 150 mm



, 00:01:19, 4.45m  
Junction from/at 10 o'clock diameter: 150 mm



, 00:01:25, 4.76m  
Survey abandoned / Enters outlet of storm drain

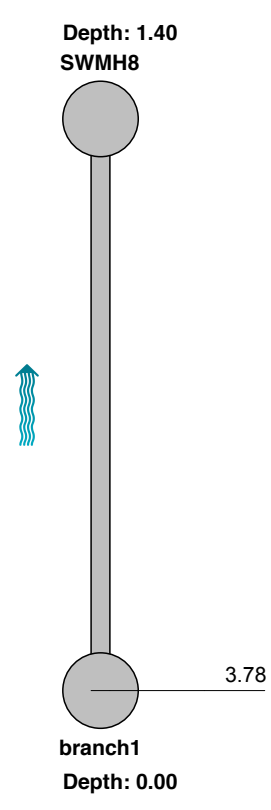
## Inspection Report

Section Number : <b>16</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>branch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH8 &lt; branch1</b>	US MH: <b>branch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>3.78</b>	DS MH: <b>SWMH8</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>1.40</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
			Finish node type gully reference number: branch1	00:00:23		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

## Section Pictures - 25/04/2017 - branch1X

Section Number : <b>16</b>	Survey Direction : <b>SWMH8 ↑ branch1</b>	PLR : <b>branch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:23, 3.78m  
Finish node type gully reference number: branch1

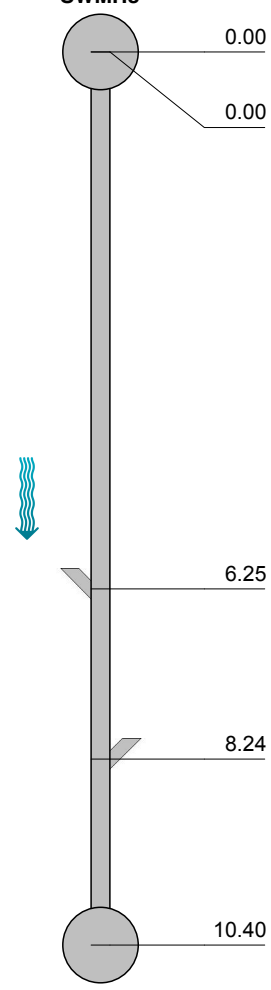
## Inspection Report

Section Number : <b>17</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH8X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH8 ® SWMH7</b>	US MH: <b>SWMH8</b>
Road:	Catchment:	US Depth: <b>1.40</b>
Location: <b>Under a permanent building</b>	Total Length: <b>10.40</b>	DS MH: <b>SWMH7</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>2.45</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>300 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:88	Position m	Code	Observation	MPEG	Photo	Grade																														
<div style="display: flex; align-items: flex-start;"> <div style="width: 20%; text-align: center;"> <p><b>Depth: 1.40</b></p> <p><b>SWMH8</b></p>  </div> <table style="width: 80%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">0.00</td> <td style="width: 5%; text-align: center;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH8</td> <td style="width: 10%; text-align: center;">00:00:01</td> <td></td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td>Water level 0 % of the vertical dimension</td> <td style="text-align: center;">00:00:03</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">6.25</td> <td style="text-align: center;">JN</td> <td>Junction from/at 1 o'clock to 2 o'clock diameter: 100 mm</td> <td style="text-align: center;">00:00:43</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">8.24</td> <td style="text-align: center;">JN</td> <td>Junction from/at 9 o'clock diameter: 150 mm</td> <td style="text-align: center;">00:00:54</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">10.40</td> <td style="text-align: center;">MHF</td> <td>Finish node type manhole reference number: SWMH7</td> <td style="text-align: center;">00:01:10</td> <td></td> <td style="text-align: center;">0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: SWMH8	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0	6.25	JN	Junction from/at 1 o'clock to 2 o'clock diameter: 100 mm	00:00:43		0	8.24	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:54		0	10.40	MHF	Finish node type manhole reference number: SWMH7	00:01:10		0
0.00	MH	Start node type manhole reference number: SWMH8	00:00:01		0																															
0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0																															
6.25	JN	Junction from/at 1 o'clock to 2 o'clock diameter: 100 mm	00:00:43		0																															
8.24	JN	Junction from/at 9 o'clock diameter: 150 mm	00:00:54		0																															
10.40	MHF	Finish node type manhole reference number: SWMH7	00:01:10		0																															

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 25/04/2017 - SWMH8X**

Section Number : <b>17</b>	Survey Direction : <b>SWMH8 ↓ SWMH7</b>	PLR : <b>SWMH8X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:43, 6.25m  
Junction from/at 1 o'clock to 2 o'clock diameter: 100 mm



, 00:00:54, 8.24m  
Junction from/at 9 o'clock diameter: 150 mm



, 00:01:10, 10.40m  
Finish node type manhole reference number: SWMH7

## Inspection Report

Section Number : <b>18</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>SWMH9X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH9 ® Main</b>	US MH: <b>SWMH9</b>
Road:	Catchment:	US Depth: <b>0.95</b>
Location: <b>Under a permanent building</b>	Total Length: <b>1.13</b>	DS MH: <b>Main</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node type manhole reference number: SWMH9	00:00:01		0
	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0
	1.13	BRF	Finish node type major connection without manhole reference number: Main	00:00:28		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



### Section Pictures - 25/04/2017 - SWMH9X

Section Number : <b>18</b>	Survey Direction : <b>SWMH9 ↓ Main</b>	PLR : <b>SWMH9X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:28, 1.13m  
Finish node type major connection without manhole reference  
number: Main

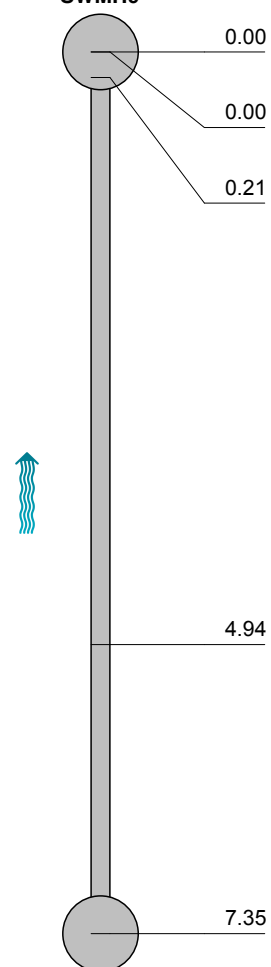
## Inspection Report

Section Number : <b>19</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>BBranch1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>SWMH9 &lt; BBranch1</b>	US MH: <b>BBranch1</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>7.35</b>	DS MH: <b>SWMH9</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.95</b>

Use: <b>Surface water</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:63	Position m	Code	Observation	MPEG	Photo	Grade																														
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p><b>Depth: 0.95</b> <b>SWMH9</b></p>  <p><b>BBranch1</b> <b>Depth: 0.00</b></p> </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: SWMH9</td> <td style="width: 10%;">00:00:01</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td>0.21</td> <td>FCJ</td> <td>Fracture circumferential at joint from/at 1 o'clock to 12 o'clock</td> <td>00:00:12</td> <td></td> <td>3</td> </tr> <tr> <td>4.94</td> <td>CM</td> <td>Cracks multiple from/at 1 o'clock to 12 o'clock</td> <td>00:00:35</td> <td></td> <td>1</td> </tr> <tr> <td>7.35</td> <td>GYF</td> <td>Finish node type gully reference number: BBranch1: Enters gully outlet</td> <td>00:00:53</td> <td></td> <td>0</td> </tr> </table></div>							0.00	MH	Start node type manhole reference number: SWMH9	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	0.21	FCJ	Fracture circumferential at joint from/at 1 o'clock to 12 o'clock	00:00:12		3	4.94	CM	Cracks multiple from/at 1 o'clock to 12 o'clock	00:00:35		1	7.35	GYF	Finish node type gully reference number: BBranch1: Enters gully outlet	00:00:53		0
0.00	MH	Start node type manhole reference number: SWMH9	00:00:01		0																															
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																															
0.21	FCJ	Fracture circumferential at joint from/at 1 o'clock to 12 o'clock	00:00:12		3																															
4.94	CM	Cracks multiple from/at 1 o'clock to 12 o'clock	00:00:35		1																															
7.35	GYF	Finish node type gully reference number: BBranch1: Enters gully outlet	00:00:53		0																															

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	40.0	5.8	5.8	3.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 25/04/2017 - BBranch1X**

Section Number : <b>19</b>	Survey Direction : <b>SWMH9 ↑ BBranch1</b>	PLR : <b>BBranch1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:12, 0.21m  
Fracture circumferential at joint from/at 1 o'clock to 12 o'clock



, 00:00:35, 4.94m  
Cracks multiple from/at 1 o'clock to 12 o'clock



, 00:00:53, 7.35m  
Finish node type gully reference number: BBranch1 / Enters gully outlet

## Inspection Report

Section Number : <b>20</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>FMH1X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>FMH1 ® Main</b>	US MH: <b>FMH1</b>
Road:	Catchment:	US Depth: <b>1.05</b>
Location: <b>Under a permanent building</b>	Total Length: <b>14.67</b>	DS MH: <b>Main</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:124	Position m	Code	Observation	MPEG	Photo	Grade																		
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>Depth: 1.05</b></p> <p><b>FMH1</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">0.00</td> <td style="width: 10%; text-align: center;">MH</td> <td style="width: 45%;">Start node type manhole reference number: FMH1</td> <td style="width: 10%; text-align: center;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td>Water level 0 % of the vertical dimension</td> <td style="text-align: center;">00:00:02</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">14.67</td> <td style="text-align: center;">SA</td> <td>Survey abandoned: Entering main sewer</td> <td style="text-align: center;">00:01:22</td> <td></td> <td style="text-align: center;">0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: FMH1	00:00:00		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0	14.67	SA	Survey abandoned: Entering main sewer	00:01:22		0
0.00	MH	Start node type manhole reference number: FMH1	00:00:00		0																			
0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																			
14.67	SA	Survey abandoned: Entering main sewer	00:01:22		0																			
Structural defects			Constructional features																					
Service and maintenance defects			Miscellaneous features																					
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade															
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0															

### Section Pictures - 25/04/2017 - FMH1X

Section Number : <b>20</b>	Survey Direction : <b>FMH1 ↓ Main</b>	PLR : <b>FMH1X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:22, 14.67m  
Survey abandoned / Entering main sewer

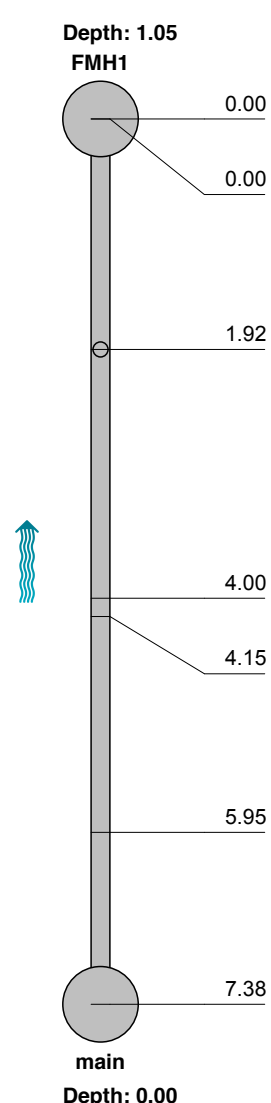
## Inspection Report

Section Number : <b>21</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>mainX</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>FMH1 &lt; main</b>	US MH: <b>main</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>7.38</b>	DS MH: <b>FMH1</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>1.05</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Vitrified clay pipe</b>

Comment:  
Recommendation:

1:63	Position m	Code	Observation	MPEG	Photo	Grade																																										
<div style="display: flex; align-items: flex-start;"> <div style="width: 20%; text-align: center;"> <p><b>Depth: 1.05</b></p> <p><b>FMH1</b></p>  </div> <table style="width: 80%; border-collapse: collapse;"> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">MH</td> <td style="color: green;">Start node type manhole reference number: FMH1</td> <td style="text-align: center;">00:00:01</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td style="color: blue;">Water level 0 % of the vertical dimension</td> <td style="text-align: center;">00:00:03</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">1.92</td> <td style="text-align: center;">JN</td> <td style="color: green;">Junction from/at 12 o'clock diameter: 150 mm</td> <td style="text-align: center;">00:00:21</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">4.00</td> <td style="text-align: center;">REM</td> <td>General remark: Enters another chamber</td> <td style="text-align: center;">00:00:41</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">4.15</td> <td style="text-align: center;">CM</td> <td style="color: red;">Cracks multiple from/at 1 o'clock to 12 o'clock</td> <td style="text-align: center;">00:00:47</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">5.95</td> <td style="text-align: center;">REM</td> <td>General remark: Enters another chamber</td> <td style="text-align: center;">00:01:21</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">7.38</td> <td style="text-align: center;">GYF</td> <td style="color: green;">Finish node type gully reference number: main</td> <td style="text-align: center;">00:01:35</td> <td></td> <td style="text-align: center;">0</td> </tr> </table> </div>							0.00	MH	Start node type manhole reference number: FMH1	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0	1.92	JN	Junction from/at 12 o'clock diameter: 150 mm	00:00:21		0	4.00	REM	General remark: Enters another chamber	00:00:41		0	4.15	CM	Cracks multiple from/at 1 o'clock to 12 o'clock	00:00:47		1	5.95	REM	General remark: Enters another chamber	00:01:21		0	7.38	GYF	Finish node type gully reference number: main	00:01:35		0
0.00	MH	Start node type manhole reference number: FMH1	00:00:01		0																																											
0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0																																											
1.92	JN	Junction from/at 12 o'clock diameter: 150 mm	00:00:21		0																																											
4.00	REM	General remark: Enters another chamber	00:00:41		0																																											
4.15	CM	Cracks multiple from/at 1 o'clock to 12 o'clock	00:00:47		1																																											
5.95	REM	General remark: Enters another chamber	00:01:21		0																																											
7.38	GYF	Finish node type gully reference number: main	00:01:35		0																																											

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	3.0	0.4	0.4	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 25/04/2017 - mainX**

Section Number : <b>21</b>	Survey Direction : <b>FMH1 ↑ main</b>	PLR : <b>mainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:21, 1.92m  
Junction from/at 12 o'clock diameter: 150 mm



, 00:00:41, 4.00m  
General remark / Enters another chamber



, 00:00:47, 4.15m  
Cracks multiple from/at 1 o'clock to 12 o'clock



, 00:01:21, 5.95m  
General remark / Enters another chamber

### Section Pictures - 25/04/2017 - mainX

Section Number : <b>21</b>	Survey Direction : <b>FMH1 ↑ main</b>	PLR : <b>mainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:35, 7.38m  
Finish node type gully reference number: main



## Inspection Report

Section Number : <b>22</b>	Date : <b>25/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>MainX</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>FMH2 &lt; Main</b>	US MH: <b>Main</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>20.95</b>	DS MH: <b>FMH2</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.70</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Cast iron</b>

Comment:  
Recommendation:

1:177	Position m	Code	Observation	MPEG	Photo	Grade																																																																								
<div style="display: flex; align-items: center;"> <div style="width: 20%;"> <p><b>Depth: 0.70</b></p> <p><b>FMH2</b></p>  </div> <table border="1" style="width: 80%; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: FMH2</td> <td style="width: 10%;">00:00:01</td> <td style="width: 5%;"></td> <td style="width: 5%;">0</td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:03</td> <td></td> <td>0</td> </tr> <tr> <td>3.11</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:00:27</td> <td></td> <td>0</td> </tr> <tr> <td>3.72</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:00:41</td> <td></td> <td>0</td> </tr> <tr> <td>7.11</td> <td>REM</td> <td>General remark: enters hidden burns chamber</td> <td>00:01:06</td> <td></td> <td>0</td> </tr> <tr> <td>8.11</td> <td>REM</td> <td>General remark: enters hidden burns chamber</td> <td>00:01:14</td> <td></td> <td>0</td> </tr> <tr> <td>11.22</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:01:28</td> <td></td> <td>0</td> </tr> <tr> <td>12.20</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:01:36</td> <td></td> <td>0</td> </tr> <tr> <td>15.40</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:01:51</td> <td></td> <td>0</td> </tr> <tr> <td>16.23</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:01:59</td> <td></td> <td>0</td> </tr> <tr> <td>19.40</td> <td>REM</td> <td>General remark: Enters hidden burns chamber</td> <td>00:02:11</td> <td></td> <td>0</td> </tr> <tr> <td>20.95</td> <td>SA</td> <td>Survey abandoned: Unable to push past bend</td> <td>00:02:43</td> <td></td> <td>0</td> </tr> </table></div>							0.00	MH	Start node type manhole reference number: FMH2	00:00:01		0	0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0	3.11	REM	General remark: Enters hidden burns chamber	00:00:27		0	3.72	REM	General remark: Enters hidden burns chamber	00:00:41		0	7.11	REM	General remark: enters hidden burns chamber	00:01:06		0	8.11	REM	General remark: enters hidden burns chamber	00:01:14		0	11.22	REM	General remark: Enters hidden burns chamber	00:01:28		0	12.20	REM	General remark: Enters hidden burns chamber	00:01:36		0	15.40	REM	General remark: Enters hidden burns chamber	00:01:51		0	16.23	REM	General remark: Enters hidden burns chamber	00:01:59		0	19.40	REM	General remark: Enters hidden burns chamber	00:02:11		0	20.95	SA	Survey abandoned: Unable to push past bend	00:02:43		0
0.00	MH	Start node type manhole reference number: FMH2	00:00:01		0																																																																									
0.00	WL	Water level 0 % of the vertical dimension	00:00:03		0																																																																									
3.11	REM	General remark: Enters hidden burns chamber	00:00:27		0																																																																									
3.72	REM	General remark: Enters hidden burns chamber	00:00:41		0																																																																									
7.11	REM	General remark: enters hidden burns chamber	00:01:06		0																																																																									
8.11	REM	General remark: enters hidden burns chamber	00:01:14		0																																																																									
11.22	REM	General remark: Enters hidden burns chamber	00:01:28		0																																																																									
12.20	REM	General remark: Enters hidden burns chamber	00:01:36		0																																																																									
15.40	REM	General remark: Enters hidden burns chamber	00:01:51		0																																																																									
16.23	REM	General remark: Enters hidden burns chamber	00:01:59		0																																																																									
19.40	REM	General remark: Enters hidden burns chamber	00:02:11		0																																																																									
20.95	SA	Survey abandoned: Unable to push past bend	00:02:43		0																																																																									

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 25/04/2017 - MainX**

Section Number : <b>22</b>	Survey Direction : <b>FMH2 ↑ Main</b>	PLR : <b>MainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:27, 3.11m  
General remark / Enters hidden burns chamber



, 00:00:41, 3.72m  
General remark / Enters hidden burns chamber



, 00:01:06, 7.11m  
General remark / enters hidden burns chamber



, 00:01:14, 8.11m  
General remark / enters hidden burns chamber

**Section Pictures - 25/04/2017 - MainX**

Section Number : <b>22</b>	Survey Direction : <b>FMH2 ↑ Main</b>	PLR : <b>MainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:28, 11.22m  
General remark / Enters hidden burns chamber



, 00:01:36, 12.20m  
General remark / Enters hidden burns chamber



, 00:01:51, 15.40m  
General remark / Enters hidden burns chamber



, 00:01:59, 16.23m  
General remark / Enters hidden burns chamber

**Section Pictures - 25/04/2017 - MainX**

Section Number : <b>22</b>	Survey Direction : <b>FMH2 ↑ Main</b>	PLR : <b>MainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:02:11, 19.40m  
General remark / Enters hidden burns chamber



, 00:02:43, 20.95m  
Survey abandoned / Unable to push past bend

## Inspection Report

Section Number : <b>23</b>	Date : <b>28/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>MainX</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>FMH3 &lt; Main</b>	US MH: <b>Main</b>
Road:	Catchment:	US Depth: <b>0.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>11.71</b>	DS MH: <b>FMH3</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>1.00</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Cast iron</b>

Comment:  
Recommendation:

1:99	Position m	Code	Observation	MPEG	Photo	Grade																																										
<div style="display: flex; align-items: flex-start;"> <div style="width: 20%; border-left: 1px solid gray; border-right: 1px solid gray; padding: 5px;"> <p style="margin: 0;"><b>Depth: 1.00</b></p> <p style="margin: 0;"><b>FMH3</b></p> <div style="margin-top: 20px;"> <p style="margin: 0;">0.00</p> <hr style="width: 50%; margin: 0;"/> <p style="margin: 0;">0.00</p> </div> <div style="margin-top: 100px;"> <p style="margin: 0;">7.17</p> <hr style="width: 50%; margin: 0;"/> </div> <div style="margin-top: 100px;"> <p style="margin: 0;">10.49</p> <hr style="width: 50%; margin: 0;"/> </div> <div style="margin-top: 100px;"> <p style="margin: 0;">11.71</p> <hr style="width: 50%; margin: 0;"/> </div> <p style="margin: 0;"><b>Main</b></p> <p style="margin: 0;"><b>Depth: 0.00</b></p> </div> <div style="width: 80%; padding-left: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%;"></td> <td style="width: 10%;"></td> <td style="width: 45%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>0.00</td> <td>MH</td> <td>Start node type manhole reference number: FMH3</td> <td>00:00:00</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:02</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>7.17</td> <td>REM</td> <td>General remark: Enters Burns Chamber</td> <td>00:01:05</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>10.49</td> <td>REM</td> <td>General remark: Enters Burns Chamber</td> <td>00:01:36</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>11.71</td> <td>MHF</td> <td>Finish node type manhole reference number: Internal FMH</td> <td>00:02:08</td> <td></td> <td>0</td> </tr> </table> </div> </div>															0.00	MH	Start node type manhole reference number: FMH3	00:00:00		0		0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0		7.17	REM	General remark: Enters Burns Chamber	00:01:05		0		10.49	REM	General remark: Enters Burns Chamber	00:01:36		0		11.71	MHF	Finish node type manhole reference number: Internal FMH	00:02:08		0
	0.00	MH	Start node type manhole reference number: FMH3	00:00:00		0																																										
	0.00	WL	Water level 0 % of the vertical dimension	00:00:02		0																																										
	7.17	REM	General remark: Enters Burns Chamber	00:01:05		0																																										
	10.49	REM	General remark: Enters Burns Chamber	00:01:36		0																																										
	11.71	MHF	Finish node type manhole reference number: Internal FMH	00:02:08		0																																										

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 28/04/2017 - MainX**

Section Number : <b>23</b>	Survey Direction : <b>FMH3 ↑ Main</b>	PLR : <b>MainX</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:05, 7.17m  
General remark / Enters Burns Chamber



, 00:01:36, 10.49m  
General remark / Enters Burns Chamber



, 00:02:08, 11.71m  
Finish node type manhole reference number: Internal FMH

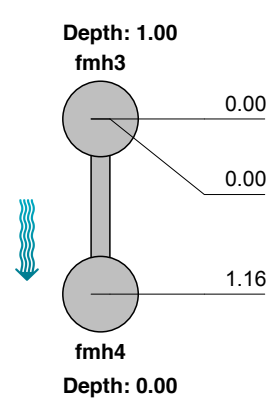
## Inspection Report

Section Number : <b>24</b>	Date : <b>28/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>fmh3X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>fmh3 ® fmh4</b>	US MH: <b>fmh3</b>
Road:	Catchment:	US Depth: <b>1.00</b>
Location: <b>Under a permanent building</b>	Total Length: <b>1.16</b>	DS MH: <b>fmh4</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Cast iron</b>

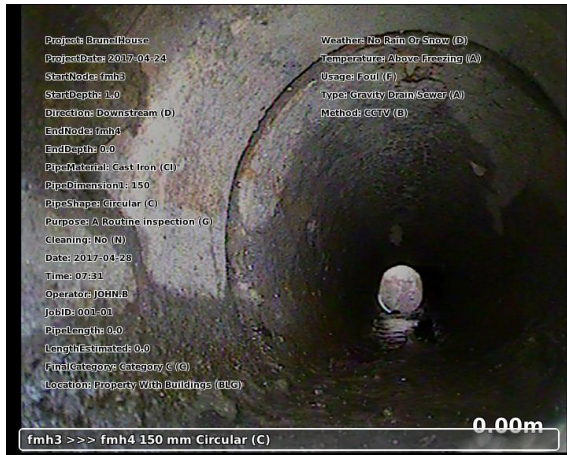
Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node type manhole reference number: fmh3	00:00:01		0
	0.00	WL	Water level 0 % of the vertical dimension	00:00:05		0
	1.16	MHF	Finish node type manhole reference number: fmh4	00:00:54		0

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

## Section Pictures - 28/04/2017 - fmh3X

Section Number : <b>24</b>	Survey Direction : <b>fmh3 ↓ fmh4</b>	PLR : <b>fmh3X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:00:01, 0.00m  
 Start node type manhole reference number: fmh3



, 00:00:54, 1.16m  
 Finish node type manhole reference number: fmh4



## Inspection Report

Section Number : <b>25</b>	Date : <b>28/04/2017</b>	Client's Ref : <b>01</b>	Weather : <b>No rain or snow</b>	Critical Drain/Sewer: <b>C</b>	PLR : <b>FMH4X</b>
Operator : <b>JOHN.B</b>	Vehicle :	Camera :	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place:	Direction: <b>FMH4 ® Main Sewer</b>	US MH: <b>FMH4</b>
Road:	Catchment:	US Depth: <b>1.46</b>
Location: <b>Under a permanent building</b>	Total Length: <b>5.86</b>	DS MH: <b>Main Sewer</b>
Surface Cover:	Pipe Length: <b>0.00</b>	DS Depth: <b>0.00</b>

Use: <b>Foul</b>	Pipe Shape: <b>Circular</b>
Year Laid: <b>1900</b>	Width / Height: <b>150 / 0</b>
Purpose: <b>Routine inspection of condition</b>	Flow Control:
Lining:	Pipe Material: <b>Cast iron</b>

Comment:  
Recommendation:

1:50	Position m	Code	Observation	MPEG	Photo	Grade																					
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p><b>Depth: 1.46</b> <b>FMH4</b></p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 45%;">Start node type manhole reference number: FMH4</td> <td style="width: 10%;">00:00:01</td> <td style="width: 10%;"></td> <td style="width: 10%;">0</td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level 0 % of the vertical dimension</td> <td>00:00:04</td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>5.86</td> <td>BRF</td> <td>Finish node type major connection without manhole reference number: Main Sewer</td> <td>00:01:08</td> <td></td> <td>0</td> </tr> </table> </div>								0.00	MH	Start node type manhole reference number: FMH4	00:00:01		0		0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0		5.86	BRF	Finish node type major connection without manhole reference number: Main Sewer	00:01:08		0
	0.00	MH	Start node type manhole reference number: FMH4	00:00:01		0																					
	0.00	WL	Water level 0 % of the vertical dimension	00:00:04		0																					
	5.86	BRF	Finish node type major connection without manhole reference number: Main Sewer	00:01:08		0																					

Structural defects					Constructional features				
Service and maintenance defects					Miscellaneous features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

### Section Pictures - 28/04/2017 - FMH4X

Section Number : <b>25</b>	Survey Direction : <b>FMH4 ↓ Main Sewer</b>	PLR : <b>FMH4X</b>	Client's Ref : <b>01</b>	Contractor's Ref :
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, 00:01:08, 5.86m  
Finish node type major connection without manhole reference  
number: Main Sewer