

CCTV SURVEYS



HIGH PRESSURE JETTING





NORFOLK HOUSE NORFOLK WAY, UCKFIELD EAST SUSSEX, TN22 1EP Telephone: 01825 768319 Fax: 01825 768310 www.aworth.co.uk

CCTV REPORT

CLIENT	CROUDACE STRATEGIC
LOCATION	OFFICERS MEADOW CHELMSFORD ROAD SHENFIELD BRENTWOOD ESSEX
DATE	23/11/2020
REF	071349 - 6109
DVD No	001

Drainage Report



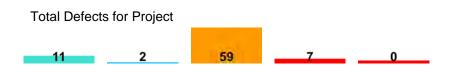
Site

Prepared For

CROUDACE STRATEGIC THE SPIRELLA BUILDING BRIDGE ROAD LETCHWORTH GARDEN CITY SG8 4ET OFFICERS MEADOW CHELMSFORD ROAD SHENFIELD ESSEX



AWORTH SURVEY CONSULTANTS Surveyor: Simon Gardiner als@aworth.co.uk 01825 768319



Total DRB Grades for Project



071349 Officers Meadow Chelmsford Road Shenfield - CCTV Survey Report : 23/11/20

Name :	AWORTH SURVEY CONSULTANTS
Contact :	ANDREW PULLINGER
Location :	NORFOLK HOUSE, NORFOLK WAY
Town :	UCKFIELD
Region :	EAST SUSSEX
Postcode :	TN22 1EP
Email :	als@aworth.co.uk
Contact Number :	01825 768319
Surveyor :	Simon Gardiner
Valid Certification No :	L1103

Client Information

Name :	CROUDACE STRATEGIC
Contact :	MICHAEL JENNER
Location :	THE SPIRELLA BUILDING
Town :	BRIDGE ROAD
Region :	LETCHWORTH GARDEN CITY
Postcode :	SG8 4ET
Tel :	
Mobile :	
Email :	
Fax :	

Site Information

Name :	OFFICERS MEADOW
Contact :	
Location :	CHELMSFORD ROAD
Town :	SHENFIELD
Region :	ESSEX
Postcode :	
Tel :	
Mobile :	
Email :	
Fax :	

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7

Total Defects for Project

11

2

59

Total DRB Grades for Project



Overview

Section: 1 From: 4100A To: 6200	Grade C	DRB Grade: C Pipe Size: 225 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 2 From: 4100A To: 4100	Grade B	DRB Grade: <mark>B</mark> Pipe Size: 225 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 3 From: 4100 To: 4100A	Grade B	DRB Grade: <mark>B</mark> Pipe Size: 225 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 4 From: 4100 To: 4000A	Grade C	DRB Grade: C Pipe Size: 225 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 5 From: 4000A To: 4000	Grade B	DRB Grade: <mark>B</mark> Pipe Size: 225 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 6 From: S1 To: S2	Grade B	DRB Grade: B Pipe Size: 300 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 7 From: S1 To: INLET 1	Grade B	DRB Grade: B Pipe Size: 300 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 8 From: S2 To: INLET 2	Grade B	DRB Grade: <mark>B</mark> Pipe Size: 300 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water

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Total Defects for Project

11

2

59

7

Total DRB Grades for Project

3 8 2

Page 4

Section: 9 From: S3 To: S4	Grade B	DRB Grade: B Pipe Size: 750 Material: Concrete Use: Surface Water
Section: 10 From: S3 To: S5	Grade B	DRB Grade: B Pipe Size: 750 Material: Concrete Use: Surface Water
Section: 11 From: S6 To: S5	Grade A	DRB Grade: A Pipe Size: 750 Material: Concrete Use: Surface Water
Section: 12 From: S6 To: INLET 3	Grade A	DRB Grade: A Pipe Size: 900 Material: Concrete Use: Surface Water
Section: 13 From: S6 To: OUTLET 1	Grade A	DRB Grade: A Pipe Size: 900 Material: Concrete Use: Surface Water

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7

Total Defects for Project

2

11



Total DRB Grades for Project

8

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Site: CHELMSFORD ROAD, SHENFIELD

Section 1

	lient:					own/Village	Cust	Job Ref.	Surveyo	Date:			
CROUDACI	E STRA	FEGIC	CHELMSFO	ORD ROAD	SH	ENFIELD			Simon	Gardiner	23/11/20	3/11/2020	
Start Node Start Node Start Node	Depth:	ate:		00A Finish No 0.00 Finish No Finish No				620 0.0	00 Direction: 00 Use: Material:	U Heig F Sha VC Clea	pe:	22	
Drain Type	Lining	Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		R	emarks			
А					D	Ν	46.17						
Position	Code	Descr	ription				CD	Pic	Video Ref	1	0m		
00.00m	ΜН	Start	node type,	manhole									
00.00m	WL	Wate	r level 20%	6					0:00:00	_///			
00.00m	DEG	S1 At	ttached dep	osits, greas	e 08-04	5%	S1		80:00:0	_//			
00.00m	REM	Gene	eral remark						0:05:53	_//			
01.00m	WL	Wate	r level 30%	6					0:00:21				
11.60m	JN	Junct	ion 02 : 15	0mm Diame	eter			0_4	0:00:57				
22.10m	RJ	Roots	s at joint						0:02:26	\neg			
23.60m	СС	Crack	k, circumfer	ential 08-04	ŧ.				0:02:34	-1			
24.70m	JN	Junct	ion 02 : 15	0mm Diame	eter			0_7	0:02:43				
25.00m	WL	Wate	r level 20%	6					0:02:56	_///			
30.40m	RJ	Roots	s at joint						0:03:09	////			
35.00m	WL	Wate	r level 30%	6					0:04:29	-1/11/11			
39.40m	CC	Crack	k, circumfer	ential 08-11					0:04:34	-11 1		ĺ,	
42.20m	REM	Gene	eral remark					0_12	0:04:51				
42.50m	WL	Wate	r level 20%	6					0:05:09				
43.00m	WL	Wate	r level 10%	6					0:05:11				
45.00m	FL	S2 Fr	acture long	itudinal 03			S 2		0:05:21		1		
45.00m	FL	S3 Fr	acture long	itudinal 09			S 3		0:05:21				
45.00m	FL	S4 Fr	acture long	itudinal 12			S4		0:05:21				
45.00m	D	Defor	med drain/s	sewer 10%	•			0_18	0:05:21				
46.00m	D	Defor	med drain/s	sewer 20%	1			0_19	0:05:29	\neg			
46.00m	DEG	Attacl	hed deposit	ts, grease 1	2 0%				0:05:29				
46.17m	FL	F4 Fr	acture long	itudinal 12			F4		0:05:21				
46.17m	FL	F3 Fr	acture long	itudinal 09			F3		0:05:21	-///			
46.17m	FL	F2 Fr	acture long	itudinal 03			F2		0:05:21	_///	46.17r	~	

Total Defects for section

2

DRB Grade for Section

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Position	Code	Description	CD	Pic	Video Ref		46.17m
46.17m	DEG	F1 Attached deposits, grease 08-04 5%	F1		0:00:08	-	
46.17m		Broken pipe 12-12			0:05:53		
46.17m 46.17m		Broken pipe 12-12 Survey abandoned			0:05:53		46.17m
Total De	efects f	or section				DRB Gra	ade for Section
2	_	<u> </u>					6

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole 4100A	
00.00m	0:00:00	WL	Water level: 20% Height/Diameter	
00.00m	0:00:08	S1 DEG	Attached deposits, grease 0m - 46.17m from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
00.00m	0:05:53	REM	General remark DVD READS 4100 - 6200 N0T 4100A - 6200	
01.00m	0:00:21	WL	Water level: 30% Height/Diameter	
11.60m	0:00:57	JN	Junction at 02 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 0_4
22.10m	0:02:26	RJ	Roots at joint - Severity 3 FINE ROOTS	
23.60m	0:02:34	CC	Crack, circumferential from 08 o'clock to 04 o'clock - Severity 1	
24.70m	0:02:43	JN	Junction at 02 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 0_7

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Descriptive Penert with Pemarks and Observation Images

DRB Grade for Section

0 2

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Total Defects for section

Pos	Video Ref	Code	Description	Image
25.00m	0:02:56	WL	Water level: 20% Height/Diameter	
30.40m	0:03:09	RJ	Roots at joint - Severity 3 FINE ROOTS AT JOINT	
35.00m	0:04:29	WL	Water level: 30% Height/Diameter	
39.40m	0:04:34	СС	Crack, circumferential from 08 o'clock to 11 o'clock - Severity 1	
42.20m	0:04:51	REM	General remark BURIED MANHOLE 4100B	Image Provided - Ref: 0_12
42.50m	0:05:09	WL	Water level: 20% Height/Diameter	
43.00m	0:05:11	WL	Water level: 10% Height/Diameter	
45.00m	0:05:21	S2 FL	Fracture longitudinal 45m - 46.17m at 03 o'clock - Severity 3	
45.00m	0:05:21	S3 FL	Fracture longitudinal 45m - 46.17m at 09 o'clock - Severity 3	
45.00m	0:05:21	S4 FL	Fracture longitudinal 45m - 46.17m at 12 o'clock - Severity 3	

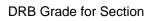
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Total Defects for section

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11



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Pos	Video Ref	Code	Description	Image
45.00m	0:05:21	D	Deformed drain/sewer: 10% Height/Diameter - Severity 4	Image Provided - Ref: 0_18
46.00m	0:05:29	D	Deformed drain/sewer: 20% Height/Diameter - Severity 4	Image Provided - Ref: 0_19
46.00m	0:05:29	DEG	Attached deposits, grease at 12 o'clock: 0% Cross sectional area loss - Severity 3	
46.17m	0:05:21	F4 FL	Fracture longitudinal Defect End at 12 o'clock - Severity 3	
46.17m	0:05:21	F3 FL	Fracture longitudinal Defect End at 09 o'clock - Severity 3	
46.17m	0:05:21	F2 FL	Fracture longitudinal Defect End at 03 o'clock - Severity 3	
46.17m	0:00:08	F1 DEG	Attached deposits, grease Defect End from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
46.17m	0:05:53	В	Broken pipe from 12 o'clock to 12 o'clock - Severity 4	
46.17m		SA	Survey abandoned BROKEN PIPE	

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Total Defects for section

0

2

11

DRB Grade for Section

DRB Grade for Section

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Site: CHELMSFORD ROAD, SHENFIELD

Section 2

0	lient:		Location (St	treet Name):	own/Village	Cust	Job Ref.	Surveyo	Da	ate:		
CROUDAC	E STRA	TEGIC	CHELMSF	ORD ROAD	SHI	ENFIELD			Simon Gardiner			1/2020
Start Node Start Node Start Node	Depth:	ate:		100A Finish N 0.00 Finish N Finish N				4100 0.00		F	Height/Dia: Shape: Cleaned	225 C N
Drain Type	Lining	Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		R	emarks		
А					D	N	24.35					
Position	Code	Descr	ription				CD	Pic \	/ideo Ref		/ Om	
00.00m	ΜН	Start	node type,	manhole						-	//	
00.00m	WL	Wate	r level 10%	6				C	0:00:00	-1	/	
00.00m	DEG	S1 At	ttached dep	osits, greas	e 07-05	5%	S1	1_2 (0:00:00	-/		
01.00m	WL	Wate	r level 20%	6				C):00:25			
06.00m	DEG	F1 At	ttached dep	osits, greas	e 07-05	5%	F1	12 0	0:00:00	-	71	
06.00m	DEG	Attac	hed deposi	ts, grease(07-05 109	%		C	0:00:49	-/	1	
06.50m	DEG	Attac	hed deposit	ts, grease (07-05 209	%		C):00:51	-/		
07.50m	DEG	S2 At	ttached dep	osits, greas	e 07-05	5%	S2	C):01:07	-1	15	
08.00m	WL	Wate	r level 30%	6				C):01:15	-/		
10.00m	JN	Junct	tion 10 : 15	0mm Diame	eter			1_8 0):01:22	_		2
17.00m	RJ	Roots	s at joint					C):02:08			ž/
22.00m	WL	Wate	r level 20%	6):02:39	7)	\mathbf{X}	
23.00m	R	Roots	S					1_11 0):02:49	$\neg l$	\backslash	
23.00m	JN	Junct	tion 10 : 15	0mm Diame	eter			C):02:56	-1//		
23.10m	WL	Wate	r level 10%	6				C):03:05	-//	A .	
23.50m	DEG	F2 At	ttached dep	osits, greas	e 07-05	5%	F2	C):01:07	-11		
23.50m	MC	Mate	rial of drain/	/sewer char	iges			1_14 ():03:05	-1		
23.50m	DEE	Attac	hed deposit	ts, encrusta	tion 07-0	05 30%		1_15 ():03:05	-		
	SA	Surve	ey abandon	ed						-	24.3	-

Total Defects for section

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Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole 4100A	
00.00m	0:00:00	WL	Water level: 10% Height/Diameter	
00.00m	0:00:00	S1 DEG	Attached deposits, grease 0m - 6m from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	Image Provided - Ref: 1_2
01.00m	0:00:25	WL	Water level: 20% Height/Diameter	
06.00m	0:00:00	F1 DEG	Attached deposits, grease Defect End from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	
06.00m	0:00:49	DEG	Attached deposits, grease from 07 o'clock to 05 o'clock: 10% Cross sectional area loss - Severity 3	
06.50m	0:00:51	DEG	Attached deposits, grease from 07 o'clock to 05 o'clock: 20% Cross sectional area loss - Severity 3	
07.50m	0:01:07	S2 DEG	Attached deposits, grease 7.5m - 23.5m from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	
08.00m	0:01:15	WL	Water level: 30% Height/Diameter	

Descriptive Penert with Pemarks and Observation Images

DRB Grade for Section

Total Defects for section

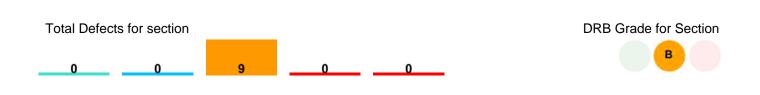
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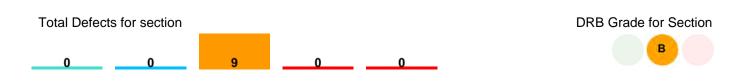
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Pos	Video Ref	Code	Description	Image
10.00m	0:01:22	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 1_8
17.00m	0:02:08	RJ	Roots at joint - Severity 3 FINE ROOTS AT JOINT	
22.00m	0:02:39	WL	Water level: 20% Height/Diameter	
23.00m	0:02:49	R	Roots - Severity 3 MASS ROOTS	Image Provided - Ref: 1_11
23.00m	0:02:56	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	
23.10m	0:03:05	WL	Water level: 10% Height/Diameter	
23.50m	0:01:07	F2 DEG	Attached deposits, grease Defect End from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	



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Pos	Video Ref	Code	Description	Image
23.50m	0:03:05	MCCI	Material of pipe changes to Cast Iron	Image Provided - Ref: 1_14
23.50m	0:03:05	DEE	Attached deposits, encrustation from 07 o'clock to 05 o'clock: 30% Cross sectional area loss - Severity 3	Image Provided - Ref: 1_15
24.35m		SA	Survey abandoned UNABLE TO PASS ENCRUSTATION	



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Site: CHELMSFORD ROAD, SHENFIELD

Section 3

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C ROUDAC	lient: E STRA	TEGIC	Location (St	-		own/Village	Cust	Job Ref.		ors Name: Gardiner	Date: 23/11/2020
Start Node Start Node Start Node	Depth:	ate:		100 Finish No 0.00 Finish No Finish No				4100 0.0	DA Direction: 00 Use: Material:	F Sha	ght/Dia: 22 pe: 0 aned 1
rain Type	Lining	Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		F	Remarks	
А					D	N	21.5				
Position	Code	Desc	ription				CD	Pic	Video Ref	1	0m
00.00m	MH	Start	node type,	manhole						-//	ţ.
00.00m	WL	Wate	er level 20%	6					0:00:00	-///	1
00.10m	CC	Cracl	k, circumfer	ential 07-05	j				0:00:00	—////	
00.10m	DER	Settle	ed deposits	coarse 209	%				0:00:05	—//////	
00.16m	FC	Fract	ure circumfe	erential 08-	04			2_4	0:00:07	-/////	
00.25m	FL	Fract	ure longitud	inal 12					80:00:0	_////	
00.65m	CC	Cracl	k, circumfer	ential 08-04	ł.				0:00:10	_////	
00.90m			ure longitud						0:00:12		
01.00m		Wate	er level 30%	6					0:00:14		() () () () () () () () () ()
01.20m			ure circumfe		11				0:00:16	//	1.
01.40m			er level 40%						0:00:31	-////	
03.40m			ttached dep	-			S1		0:00:54		
07.40m			k, circumfer		- 1				0:01:10	-///7	
08.40m			hed deposit				= (0:01:15		
			ttached dep				F1		0:00:54	_//	
			ttached dep	-		20%	52		0:01:29	-//	4
12.00m			tion 02 : 15			20%	ED		0:01:37 0:01:29		1
			ttached dep ttached dep				F2 S3		0:01:56		
20.00m			rial of drain/	-		576			0:02:16		
20.00m			hed deposit		-)5 20%			0:02:10	_/	
			ttached dep				F3		0:01:56	_/	3.
21.50m			ey abandon							-1	21.5m
Total De	efects f	or sec	tion							DRB Gra	de for Sect

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Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole 4100	
00.00m	0:00:00	WL	Water level: 20% Height/Diameter	
00.10m	0:00:00	СС	Crack, circumferential from 07 o'clock to 05 o'clock - Severity 1	
00.10m	0:00:05	DER	Settled deposits coarse: 20% Cross sectional area loss - Severity 3	
00.16m	0:00:07	FC	Fracture circumferential from 08 o'clock to 04 o'clock - Severity 3	Image Provided - Ref: 2_4
00.25m	0:00:08	FL	Fracture longitudinal at 12 o'clock - Severity 3	
00.65m	0:00:10	CC	Crack, circumferential from 08 o'clock to 04 o'clock - Severity 1	
00.90m	0:00:12	FL	Fracture longitudinal at 12 o'clock - Severity 3	
01.00m	0:00:14	WL	Water level: 30% Height/Diameter	
01.20m	0:00:16	FC	Fracture circumferential from 08 o'clock to 11 o'clock - Severity 3	
01.40m	0:00:31	WL	Water level: 40% Height/Diameter	

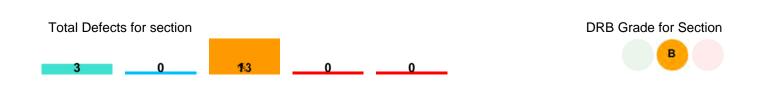


DRB Grade for Section

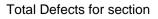
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Pos	Video Ref	Code	Description	Image
03.40m	0:00:54	S1 DEG	Attached deposits, grease 3.4m - 10m from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
07.40m	0:01:10	CCJ	Crack, circumferential from 08 o'clock to 04 o'clock at joint - Severity 1	
08.40m	0:01:15	DEG	Attached deposits, grease from 09 o'clock to 11 o'clock: 20% Cross sectional area loss - Severity 3	Image Provided - Ref: 2_13
10.00m	0:00:54	F1 DEG	Attached deposits, grease Defect End from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
10.00m	0:01:29	S2 DEG	Attached deposits, grease 10m - 15m from 08 o'clock to 04 o'clock: 20% Cross sectional area loss - Severity 3	Image Provided - Ref: 2_14

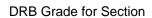


Pos	Video Ref	Code	Description	Image
12.00m	0:01:37	JN	Junction at 02 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 2_15
15.00m	0:01:29	F2 DEG	Attached deposits, grease Defect End from 08 o'clock to 04 o'clock: 20% Cross sectional area loss - Severity 3	
15.00m	0:01:56	S3 DEG	Attached deposits, grease 15m - 21.5m from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
20.00m	0:02:16	MCCI	Material of pipe changes to Cast Iron	Image Provided - Ref: 2_17
20.00m	0:02:16	DEE	Attached deposits, encrustation from 07 o'clock to 05 o'clock: 20% Cross sectional area loss - Severity 3	
21.50m	0:01:56	F3 DEG	Attached deposits, grease Defect End from 08 o'clock to 04 o'clock: 5% Cross sectional area loss - Severity 3	
21.50m		SA	Survey abandoned UNABLE TO PASS ENCRUSTATION	



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Site: CHELMSFORD ROAD, SHENFIELD

Section 4

	ient: E STRA ⁻	TEGIC	Location (Street Name): City/Town/Village GIC CHELMSFORD ROAD SHENFIELD					Cust	Job Ref.	Surveyors Name: Simon Gardiner			Date: 23/11/2020	
Start Node Start Node Start Node	Ref: Depth:	4100 Finish Node Ref: 0.00 Finish Node Depth:							4000	A Direction:	D Hei F Sha	ght/Dia:	22	
Drain Type	Lining	Туре	Lining Ma	it. Yea	r Const.	Weather	Flow Cont.	Length		R	emarks			
А						D	N	91.93						
Position	Code	Desci	ription					CD	Pic	Video Ref	1	0m	7	
00.00m	MH	Start	node typ	e, man	hole						-//			
00.00m	WL	Wate	r level 1	0%						0:00:00	_//			
01.00m	WL	Wate	r level 2	20%						0:00:10	_/			
01.00m	DEG	S1 At	ttached d	eposits	, greas	e 04-08	10%	S1		0:00:41		-		
10.00m	WL	Wate	r level 1	0%						0:01:20	-	a .		
12.50m	JN	Junct	tion 10 :	150mn	n Diame	eter			3_5	0:01:38	-			
14.90m	JDM	Joint	displace	d medi	um					0:02:02	/	1		
20.00m	DEG	F1 At	tached d	eposits	, greas	e 04-08	10%	F1		0:00:41				
20.00m	WL	Wate	r level 5	5%						0:02:39	-1			
20.00m	DEG	S2 At	ttached d	eposits	, greas	e 07-05	5%	<mark>S</mark> 2		0:02:50	- /			
23.00m	WL	Wate	r level 1	0%						0:02:56	-//	12		
23.50m	WL	Wate	r level 2	20%						0:03:03	-/			
25.50m	JN	Junct	tion 10 :	150mn	n Diame	eter			3_11	0:03:17	_	2	L	
33.60m	CLJ	Crack	k, longitu	dinal 0	3 at joir	nt				0:04:24	~	Sec. 1	7	
33.60m	CLJ	Crack	k, longitu	dinal 1	2 at joir	nt				0:04:24				
39.00m	D	Defor	rmed drai	in/sewe	er 10%)				0:05:09	$\overline{}$			
39.00m	FL	S3 Fr	racture lo	ngitudi	nal 12			S 3		0:05:09	\rightarrow	- 12		
39.00m	FL	S4 Fr	racture lo	ngitudi	nal 09			S4		0:05:09	-/			
39.50m			tion 10 :			eter				0:05:20	-/			
43.00m			racture lo					S 5		0:05:58	_			
50.00m			acture lo					F3		0:05:09	~			
52.70m			tion 10 :			eter				0:07:10	~)			
55.00m			racture lo					S 6		0:07:31	-/	1		
58.00m			acture lo					F5		0:05:58	-//			
58.00m	FL	F4 Fr	acture lo	ngitudi	nal 09			F4		0:05:09	-1	58.00	Dm	

0

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Total Defects for section

0

14

DRB Grade for Section

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Position	Code	Description	CD	Pic	Video Ref	58m
60.00m	FL	F6 Fracture longitudinal 12	F6		0:07:31	
60.50m	CL	Crack, longitudinal 03			0:08:09	
61.20m	CC	Crack, circumferential 08-04			0:08:15	_1_
63.40m	FM	S7 Fracture multiple 08-04	S7		0:08:35	
63.40m	D	Deformed drain/sewer 10%			0:08:45	
65.60m	JN	Junction 10 : 150mm Diameter			0:08:56	
76.00m	FM	F7 Fracture multiple 08-04	F7		0:08:35	\neg
76.00m	WL	Water level 10%			0:10:13	
78.00m	WL	Water level 20%			0:10:21	
79.50m	JN	Junction 10: 150mm Diameter		3_28	3 0:10:40	
82.00m	WL	Water level 30%			0:11:13	
88.00m	WL	Water level 20%			0:11:32	_ \
88.50m	WL	Water level 10%			0:11:33	$ \rightarrow $
91.50m	DEG	F2 Attached deposits, grease 07-05 5%	F2		0:02:50	_//
91.50m	R	Roots		3_32	2 0:11:44	_//
91.93m	MHF	Finish node type, manhole				91.93m

Total Defects for section

0

14

DRB Grade for Section

С

0

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Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole 4100	
00.00m	0:00:00	WL	Water level: 10% Height/Diameter	
01.00m	0:00:10	WL	Water level: 20% Height/Diameter	
01.00m	0:00:41	S1 DEG	Attached deposits, grease 1m - 20m from 04 o'clock to 08 o'clock: 10% Cross sectional area loss - Severity 3	
10.00m	0:01:20	WL	Water level: 10% Height/Diameter	
12.50m	0:01:38	JN	Junction at 10 o'clock: 150mm Diameter	Image Provided - Ref: 3_5
14.90m	0:02:02	JDM	Joint displaced medium - Severity 3	
20.00m	0:00:41	F1 DEG	Attached deposits, grease Defect End from 04 o'clock to 08 o'clock: 10% Cross sectional area loss - Severity 3	
20.00m	0:02:39	WL	Water level: 5% Height/Diameter	
20.00m	0:02:50	S2 DEG	Attached deposits, grease 20m - 91.5m from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	
23.00m	0:02:56	WL	Water level: 10% Height/Diameter	

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DRB Grade for Section

Total Defects for section

14

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Page 21

Pos	Video Ref	Code	Description	Image
23.50m	0:03:03	WL	Water level: 20% Height/Diameter	
25.50m	0:03:17	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 3_11
33.60m	0:04:24	CLJ	Crack, longitudinal at 03 o'clock at joint - Severity 1	
33.60m	0:04:24	CLJ	Crack, longitudinal at 12 o'clock at joint - Severity 1	
39.00m	0:05:09	D	Deformed drain/sewer: 10% Height/Diameter - Severity 4	
39.00m	0:05:09	S3 FL	Fracture longitudinal 39m - 50m at 12 o'clock - Severity 3	
39.00m	0:05:09	S4 FL	Fracture longitudinal 39m - 58m at 09 o'clock - Severity 3	
39.50m	0:05:20	JN	Junction at 10 o'clock: 150mm Diameter	Image Provided - Ref: 3_17
43.00m	0:05:58	S5 FL	Fracture longitudinal 43m - 58m at 03 o'clock - Severity 3	
50.00m	0:05:09	F3 FL	Fracture longitudinal Defect End at 12 o'clock - Severity 3	

Total Defects for section

0

14

4

DRB Grade for Section

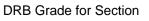
С

Pos	Video Ref	Code	Description	Image
52.70m	0:07:10	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	
55.00m	0:07:31	S6 FL	Fracture longitudinal 55m - 60m at 12 o'clock - Severity 3	
58.00m	0:05:58	F5 FL	Fracture longitudinal Defect End at 03 o'clock - Severity 3	
58.00m	0:05:09	F4 FL	Fracture longitudinal Defect End at 09 o'clock - Severity 3	
60.00m	0:07:31	F6 FL	Fracture longitudinal Defect End at 12 o'clock - Severity 3	
60.50m	0:08:09	CL	Crack, longitudinal at 03 o'clock - Severity 1	
61.20m	0:08:15	сс	Crack, circumferential from 08 o'clock to 04 o'clock - Severity 1	
63.40m	0:08:35	S7 FM	Fracture multiple 63.4m - 76m from 08 o'clock to 04 o'clock - Severity 4	
63.40m	0:08:45	D	Deformed drain/sewer: 10% Height/Diameter - Severity 4	
65.60m	0:08:56	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	
76.00m	0:08:35	F7 FM	Fracture multiple Defect End from 08 o'clock to 04 o'clock - Severity 4	
76.00m	0:10:13	WL	Water level: 10% Height/Diameter	
78.00m	0:10:21	WL	Water level: 20% Height/Diameter	

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4

Total Defects for section



0

Pos	Video Ref	Code	Description	Image
79.50m	0:10:40	JN	Junction at 10 o'clock: 150mm Diameter BLANKED OFF	Image Provided - Ref: 3_28
82.00m	0:11:13	WL	Water level: 30% Height/Diameter	
88.00m	0:11:32	WL	Water level: 20% Height/Diameter	
88.50m	0:11:33	WL	Water level: 10% Height/Diameter	
91.50m	0:02:50	F2 DEG	Attached deposits, grease Defect End from 07 o'clock to 05 o'clock: 5% Cross sectional area loss - Severity 3	
91.50m	0:11:44	R	Roots - Severity 3 ROOTS IN MANHOLE	Image Provided - Ref: 3_32
91.93m		MHF	Finish node type, manhole 4000A	

Total Defects for section

DRB Grade for Section

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Site: CHELMSFORD ROAD, SHENFIELD

Section 5

That Node Ref: 0000 Finish Node Ref: 000 Direction:	Cli	ient: STRATE	GIC	Location (St			own/Village ENFIELD	Cust	Job Ref.		ors Name: Gardiner	Date: 23/11/2020
A D N 207 Position Code Description O0.00m WH Start node type, manhole O0.00m WL Water level 10% O0.10m JDM Joint displaced medium O2.07m MHF Finish node type, manhole O2.07m MHF Finish node t	Start Node I	Depth:	e:		0.00 Finish N	ode Depth:				00 Use:	F Sha	ape: C
Position Code Description 00.00m MH Start node type, manhole 00.00m WL Water level 10% 00.10m JDM Joint displaced medium 02.07m MHF Finish node type, manhole 02.07m MHF Finish node type, manhole 02.07m The Finish node type, manhole 02.07m The Finish node type, manhole 02.07m MHF Finish nod	Drain Type	Lining Ty	уре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		R	Remarks	
00.00m MH Start node type, manhole 0.00:00 00.01m JDM Joint displaced medium 0.00:00 02.07m MHF Finish node type, manhole 0.00:05 02.07m MHF Start node type, manhole 0.00:05	Α					D	N	2.07				
00.00m WL Water level 10% 00.10m JDM Joint displaced medium 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00.05 0.00					manhole			CD	Pic	Video Ref	\mathcal{A}	0m
00.10m JDM Joint displaced medium 02.07m MHF Finish node type, manhole										0.00.00		
02.07m MHF Finish node type, manhole												
	02.07m	MHF F	INISN	node type	, mannole							
	Total De	fects for	sect	ion							DRB Gra	

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Descri	ptive Repo	ort with R	emarks and Observation I	mages Section 5
Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole 4000A	
00.00m	0:00:00	WL	Water level: 10% Height/Diameter	
00.10m	0:00:05	JDM	Joint displaced medium - Severity 3	
02.07m		MHF	Finish node type, manhole 4000	





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Site: CHELMSFORD ROAD, SHENFIELD

Section 6

С	lient:		Location (St	reet Na	ame):	City/T	own/Village	Cust	Job Ref.	Survey	Surveyors Name:		
CROUDAC	E STRA	TEGIC	CHELMSFO		DAD	SH	ENFIELD			Simon	Gardiner	25/11/2	:020
Start Node Start Node Start Node	Depth:	ate:		0.00 F	inish No	ode Ref: ode Depth: ode Coordi				S2 Direction: 00 Use: Material:	D Heig S Shap VC Clea	be:	30((1
Drain Type	Lining	Туре	Lining Mat.	Year (Const.	Weather	Flow Cont.	Length		F	Remarks		
А						D	Ν	9.62					
Position	Code	Desc	ription					CD	Pic	Video Ref	1	0m	
00.00m			node type,	manh	ole			00	1 10		_///		
00.00m			er level 10%							0:00:00	_///		
00.00m	REM	S1 G	eneral rema	ark				S1		0:00:32			
00.64m	DER	Settle	ed deposits	coars	e 109	%			5_2	0:00:07			
04.80m	CCJ	Cracl	k, circumfer	ential	08-12	at joint				0:00:32	\neg		
04.80m	CL	Cracl	k, longitudin	al 12						0:00:34	-/		
05.90m	DES	S2 S	ettled depos	sits fin	e 10	%		<mark>S</mark> 2	5_6	0:00:36	$\neg /$		
07.00m	СМ	S3 C	racks, multij	ple 0	8-04			<mark>S</mark> 3		0:00:44	$\neg $	2	
08.00m	DES	F2 Se	ettled depos	its fin	e 109	%		F2	56	0:00:36	-1/	WO	1
08.00m	DES	S4 S	ettled depos	sits fin	e 20	%		S 4		0:00:52	-11/		
08.00m	R	S 5 R	oots					<mark>S</mark> 5		0:00:57	-///		
09.62m	R	F5 R	oots					F5		0:00:57	$\neg M$		
09.62m	DES	F4 Se	ettled depos	its fin	e 209	%		F4		0:00:52	-//		
09.62m	СМ	F3 C	racks, multij	ole 08	3-04			F3		0:00:44	$\neg \parallel$		
09.62m	SA	Surve	ey abandon	ed							-1	9.62m	

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Total Defects for section

2

DRB Grade for Section

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Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole S1	
00.00m	0:00:00	WL	Water level: 10% Height/Diameter	
00.00m	0:00:32	S1 REM	General remark 0m - 0m DRIED DEBRIS AND STAINING ON PIPE SURFACE	
00.64m	0:00:07	DER	Settled deposits coarse: 10% Cross sectional area loss - Severity 3	Image Provided - Ref: 5_2
04.80m	0:00:32	CCJ	Crack, circumferential from 08 o'clock to 12 o'clock at joint - Severity 1	
04.80m	0:00:34	CL	Crack, longitudinal at 12 o'clock - Severity 1	
05.90m	0:00:36	S2 DES	Settled deposits fine 5.9m - 8m: 10% Cross sectional area loss - Severity 3	Image Provided - Ref: 5_6
07.00m	0:00:44	S3 CM	Cracks, multiple 7m - 9.62m from 08 o'clock to 04 o'clock - Severity 2	
08.00m	0:00:36	F2 DES	Settled deposits fine Defect End: 10% Cross sectional area loss - Severity 3	

Total Defects for section

2

DRB Grade for Section

в

7

0

0

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Pos	Video Ref	Code	Description	Image
08.00m	0:00:52	S4 DES	Settled deposits fine 8m - 9.62m: 20% Cross sectional area loss - Severity 3	
08.00m	0:00:57	S5 R	Roots 8m - 9.62m - Severity 3	
09.62m	0:00:57	F5 R	Roots Defect End - Severity 3	
09.62m	0:00:52	F4 DES	Settled deposits fine Defect End: 20% Cross sectional area loss - Severity 3	
09.62m	0:00:44	F3 CM	Cracks, multiple Defect End from 08 o'clock to 04 o'clock - Severity 2	
09.62m		SA	Survey abandoned UNABLE TO PASS DEBRIS	



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Site: CHELMSFORD ROAD, SHENFIELD

Section 7

CI CROUDACE	ent:	TEGIC		reet Name): DRD ROAD		own/Village	Cust	Job Ref.		ors Name: Gardiner	Date: 25/11/2020
Start Node I Start Node I Start Node (Depth:	ate:		S1 Finish N 0.00 Finish N Finish N				INLET 0.0	1 Direction: 0 Use: Material:	S Sha	ght/Dia: 300 pe: C aned N
Drain Type	Lining	Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		R	emarks	
А					D	N	1.56				
Position	Code	Desc	ription				CD	Pic	Video Ref	1	0m
00.00m	MH	Start	node type,	manhole						-/	
00.00m	WL	Wate	r level 5%						0:00:00		
00.60m	DER	Settle	ed deposits	coarse 20	%				0:00:06		
											1.56m
Total De	fects f	or sec	tion	1	0					DRB Gra	ide for Section

Descri	otive Repo	ort with R	emarks and Observation I	mages Section 7
Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole S1	
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	
00.60m	0:00:06	DER	Settled deposits coarse: 20% Cross sectional area loss - Severity 3	
01.56m		WRF	Finish node type, major connection without manhole INLET 1	



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Site: CHELMSFORD ROAD, SHENFIELD

Section 8

CI CROUDACE	ient: STRA	TEGIC		rreet Name): ORD ROAD		own/Village	Cust	Job Ref.		ors Name: Gardiner	Date: 25/11/2020
Start Node Start Node Start Node	Depth:	ate:		S2 Finish N 0.00 Finish N Finish N				INLET 0.	2 Direction: 00 Use: Material:	S Sha	ght/Dia: 300 pe: C aned N
Drain Type	Lining	ј Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		F	Remarks	
А					D	Ν	0.4				
Position	Code	Desc	ription				CD	Pic	Video Ref	Λ	0m
00.00m	MH	Start	node type,	manhole						-/	
00.00m	WL	Wate	er level 50%	6				7_1	0:00:00	-/	
00.10m	CUW	Loss	of vision, ca	amera unde	r water				0:00:05	-/	
00.14m	DER	Settle	ed deposits	coarse 30	%			7_2	0:00:05	_	
00.40m	SA	Surve	ey abandon	ed						\neg	Ê
											0.4m
Total De	fects f	or sec	tion							DRB Gra	de for Secti
		5, 500									B
0	_	0		1	0	0					

Pos	Video Ref	Code	Description	Image
00.00m		МН	Start node type, manhole S2	
00.00m	0:00:00	WL	Water level: 50% Height/Diameter	Image Provided - Ref: 7_1
00.10m	0:00:05	CUW	Loss of vision, camera under water	
00.14m	0:00:05	DER	Settled deposits coarse: 30% Cross sectional area loss - Severity 3	Image Provided - Ref: 7_2
00.40m		SA	Survey abandoned CAMERA UNDERWATER / UNABLE TO PASS DEBRIS	

Descriptive Report with Remarks and Observation Images



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Section 9

Site: CHELMSFORD ROAD, SHENFIELD

Location (Street Name): City/Town/Village Surveyors Name: Client: Cust Job Ref. Date: CROUDACE STRATEGIC CHELMSFORD ROAD 25/11/2020 SHENFIELD Simon Gardiner Finish Node Ref: S4 Direction: U Height/Dia: 750 Start Node Ref: S3 Shape: Start Node Depth: 0.00 Finish Node Depth: 0.00 Use: s С со Start Node Coordinate: Finish Node Coordinate: Material: Cleaned Ν Drain Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks А D Ν 119.95 0m **Position Code Description** CD Pic Video Ref 00.00m MH Start node type, manhole 00.00m WL 0:00:00 Water level 5% Connection intruding 01 10% : 150mm Diameter 15.00m CXI 0:00:48 119.95 MHF Finish node type, manhole 119.95m

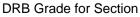
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Total Defects for section

0

0

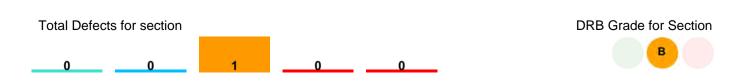


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Descrip	otive Repo	ort with R	emarks and Observation I	mages Section 9
Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole S3	
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	
15.00m	0:00:48	CXI	Connection intruding at 01 o'clock: 10% Intrusion : 150mm Diameter - Severity 3	
119.95m		MHF	Finish node type, manhole S4	

Descriptive Penert with Pemarks and Observation Images



Section 10

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Site: CHELMSFORD ROAD, SHENFIELD

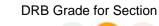
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Client: Location (Street Name): City/Town/Village Cust Job Ref. Surveyors Name: Date: CROUDACE STRATEGIC CHELMSFORD ROAD SHENFIELD Simon Gardiner 25/11/2020 Finish Node Ref: Direction: D Height/Dia: 750 Start Node Ref: S3 S5 Shape: 0.00 Finish Node Depth: 0.00 Use: s С Start Node Depth: Start Node Coordinate: Finish Node Coordinate: Material: со Cleaned Ν Drain Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks А D Ν 78.94 Om Position Code Description CD Pic Video Ref 00.00m MH Start node type, manhole 00.00m WL 0:00:00 Water level 5% 02.33m CN Connection other than junction 11:150mm 0:00:13 15.78m CXI Connection intruding 11 10% : 150mm Diameter 9_3 0:00:52 78.54m REM General remark 9_4 0:03:48 78.94m MHF Finish node type, manhole 78.94m Total Defects for section DRB Grade for Section в

0

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole S3	
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	
02.33m	0:00:13	CN	Connection other than junction at 11 o'clock: 150mm Diameter	
15.78m	0:00:52	СХІ	Connection intruding at 11 o'clock: 10% Intrusion : 150mm Diameter - Severity 3	Image Provided - Ref: 9_3
78.54m	0:03:48	REM	General remark DEBRIS IN MANHOLE	Image Provided - Ref: 9_4
78.94m		MHF	Finish node type, manhole S5	



в

Total Defects for section



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Section 11

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Site: CHELMSFORD ROAD, SHENFIELD

Surveyors Name: Client: Location (Street Name): City/Town/Village Cust Job Ref. Date: CROUDACE STRATEGIC 25/11/2020 CHELMSFORD ROAD SHENFIELD Simon Gardiner Finish Node Ref: Direction: U Height/Dia: 750 Start Node Ref: S6 S5 Shape: 0.00 Finish Node Depth: 0.00 Use: s С Start Node Depth: со Start Node Coordinate: Finish Node Coordinate: Material: Cleaned Ν Drain Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks А D Ν 40.83 0m **Position Code Description** CD Pic Video Ref 00.00m MH Start node type, manhole 00.00m WL 0:00:00 Water level 5% 01.25m CN Connection other than junction 01: 150mm 0:00:07 40.57m REM General remark 10_3 0:02:03 40.83m MHF Finish node type, manhole 40.83m Total Defects for section DRB Grade for Section



Descri	Descriptive Report with Remarks and Observation Images Section					
Pos	Video Ref	Code	Description	Image		
00.00m		MH	Start node type, manhole S6			
00.00m	0:00:00	WL	Water level: 5% Height/Diameter			
01.25m	0:00:07	CN	Connection other than junction at 01 o'clock: 150mm Diameter			
40.57m	0:02:03	REM	General remark DEBRIS IN MANHOLE	Image Provided - Ref: 10_3		
40.83m		MHF	Finish node type, manhole S5			

Total Defects for section

DRB Grade for Section



Section 12

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Site: CHELMSFORD ROAD, SHENFIELD

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Client: Location (Street Name): City/Town/Village Cust Job Ref. Surveyors Name: Date: CROUDACE STRATEGIC 25/11/2020 CHELMSFORD ROAD SHENFIELD Simon Gardiner Finish Node Ref: INLET 3 Direction: U Height/Dia: 900 Start Node Ref: S6 Shape: 0.00 Finish Node Depth: 0.00 Use: S С Start Node Depth: Start Node Coordinate: Finish Node Coordinate: Material: со Cleaned Ν Drain Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks D Ν 3.25 0m **Position Code Description** CD Pic Video Ref 00.00m MH Start node type, manhole 00.00m WL 0:00:00 Water level 0% 00.75m CN Connection other than junction 09:300mm 11 2 0:00:12 00.75m REM General remark 11_3 0:00:07 03.25m WRF Finish node type, major connection without 11_9 3.25m

Total Defects for section

0

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole S6	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	
00.75m	0:00:12	CN	Connection other than junction at 09 o'clock: 300mm Diameter	Image Provided - Ref: 11_2
00.75m	0:00:07	REM	General remark OBSTRUCTION AT HIGH LEVEL / POSSIBLE CHAMBER CONSTRUCTION	Image Provided - Ref: 11_3
03.25m		WRF	Finish node type, major connection without manhole INLET 3	Image Provided - Ref: 11_9999

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Total Defects for section 0 0 0 0 0 DRB Grade for Section

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Section 13

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Site: CHELMSFORD ROAD, SHENFIELD

Client: Location (Street Name): City/Town/Village Cust Job Ref. Surveyors Name: Date: CROUDACE STRATEGIC CHELMSFORD ROAD SHENFIELD Simon Gardiner 25/11/2020 Finish Node Ref: OUTLET 1 Direction: D Height/Dia: 900 Start Node Ref: S6 Shape: 0.00 Finish Node Depth: 0.00 Use: s С Start Node Depth: Start Node Coordinate: Finish Node Coordinate: Material: со Cleaned Ν Drain Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks А D Ν 14.55 0m Position Code Description CD Pic Video Ref 00.00m MH Start node type, manhole 00.00m WL 0:00:00 Water level 5% 05.00m WL Water level 10% 0:00:17 08.00m WL 12_3 0:00:26 Water level 20% 11.00m WL Water level 30% 12_4 0:00:34 14.55m OFF Finish node type, outfall 14.55m Total Defects for section

DRB Grade for Section



Pos	Video Ref		emarks and Observation Description	-
00.00m		MH	Start node type, manhole	Image
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	
05.00m	0:00:17	WL	Water level: 10% Height/Diameter	
08.00m	0:00:26	WL	Water level: 20% Height/Diameter	Image Provided - Ref: 12_3
11.00m	0:00:34	WL	Water level: 30% Height/Diameter	Image Provided - Ref: 12_4
14.55m		OFF	Finish node type, outfall OUTLET 1	



Section 13





