

## APPENDIX A (R1)– SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS

<b>Alpine Av ( N CL) (Asset No.MA50017400)</b>	<b>MH at Fermor Exit (Asset No. MH50014132) to 1<sup>st</sup> MH W of Fermor Exit (Asset No. MH50014138)</b>
Size/Shape	250 mm
Material	Asbestos Cement
Total Length	120.7 m
Sewer Depth to Invert – maximum	4.64 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50014132	
No preparatory work required	

<b>Arundel Rd (Asset No. MA50006906)</b>	<b>MH at Elizabeth Rd (S CL) (Asset No. MH70058395) to 1<sup>st</sup> MH S of Elizabeth Rd (Asset No. MH5005916)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	58.6 m
Sewer Depth to Invert – maximum	3.78 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH70058395	
1.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
8.3	Solid debris removal, encrustation at joint from 4:00 to 8:00
11.1	Solid debris removal, encrustation at joint at 3:00
11.7	Solid debris removal, encrustation at joint from 6:00 to 9:00
13.3	Solid debris removal, encrustation at joint from 7:00 to 9:00
17.2	Solid debris removal, encrustation at

17.5	joint from 6:00 to 8:00
21.1	Solid debris removal, encrustation at service from 6:00 to 9:00
44.0	Solid debris removal, encrustation on pipe wall at 3:00
44.2-55.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00

<b>Autumnwood Rd (Asset No. MA50005762)</b>	<b>MH at DeBourmont By (E Leg) (Asset No. MH50064850) to 1<sup>st</sup> MH E of DeBourmont (Asset No. MH)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	74.8 m
Sewer Depth to Invert – maximum	5.72m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50064850	
35.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
361	Solid debris removal, encrustation at service from 8:00 to 2:00
55.8	Solid debris removal, encrustation at service from 8:00 to 10:00
60.0-61.0	External Point Repair
70.1	Remove intruding service at 10:00
72.8	Remove intruding service at 12:00

<b>Bernier By S (Asset No. MA50006242)</b>	<b>1<sup>st</sup> MH E of Speers Rd (Asset No. MH50005320) to MH at Speers Rd (Asset No. MH50005318)</b>
Size/Shape	450 mm
Material	Concrete
Total Length	127.7 m
Sewer Depth to Invert – maximum	3.73 m

Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50005320	
7.0	Remove intruding service at 10:00
74.0-81.0	External Point Repair
95.0-98.0	External Point Repair

<b>Bertrand Av (Asset No. MA50003154)</b>	<b>MH at Traverse St (Asset No. MH50002668) to 1<sup>st</sup> MH W of Traverse St (Asset No. MH50002667)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	110.9 m
Sewer Depth to Invert – maximum	2.48 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50002668	
3.7	Solid debris removal, encrustation at joint from 10:00 to 2:00
16.4	Remove intruding service at 9:00
19.9	Solid debris removal, encrustation at joint from 10:00 to 2:00
35.7	Solid debris removal, encrustation at joint from 10:00 to 3:00
51.0	Remove intruding service at 3:00
54.1	Solid debris removal, encrustation at joint from 10:00 to 1:00
68.6	Solid debris removal, encrustation at joint from 10:00 to 1:00
74.2	Remove intruding service at 10:00
98.7	Solid debris removal, encrustation at joint from 3:00 to 9:00
100.7	Solid debris removal, encrustation at joint from 3:00 to 9:00
104.6	Solid debris removal, encrustation at joint from 9:00 to 2:00

<b>Betournay St (S curb) (Asset No. MA50005750)</b>	<b>MH at Speers Rd (Asset No. MH50004881) to MH at Humber Rd (Asset No. MH500044882)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	98.2 m
Sewer Depth to Invert – maximum	5.6 m
Design Condition	
Fully Deteriorated 8%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004881	
15.2	Solid debris removal, encrustation at service from 6:00 to 10:00

<b>Betournay St (Asset No. MA50006264)</b>	<b>MH at Jubinville By (E leg) (Asset No. MH50005340) to MH at Jubinville (W Leg) (Asset No. MH50005341)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	101.4 m
Sewer Depth to Invert – maximum	5.59m
Design Condition	
Fully Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50005340	
17.4	Solid debris removal, encrustation at joint at 8:00
18.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
19.0	Solid debris removal, encrustation at joint at 8:00
20.6	Solid debris removal, encrustation at joint at 8:00
21.4	Solid debris removal, encrustation at joint at 8:00
24.4	Solid debris removal, encrustation at joint at 4:00
35.0	Solid debris removal, encrustation at

39.7	service from 9:00 to 10:00
42.7	Solid debris removal, encrustation at joint at 8:00
45.2	Solid debris removal, encrustation at joint from 7:00 to 10:00
48.3	Solid debris removal, encrustation at joint from 8:00 to 4:00
78.9	Solid debris removal, encrustation at joint at 8:00
	Solid debris removal, encrustation at joint at 8:00

<b>Braemar Av (Asset No. MA50007540)</b>	<b>MH at Niverville Av (Asset No. MH50006462) to 1<sup>st</sup> MH N of Niverville Av (Asset No. MH50006463)</b>
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	79.7 m
Sewer Depth to Invert – maximum	4.7 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50006462	
3.3	Solid debris removal, encrustation at joint at 6:00
4.9	Solid debris removal, encrustation at joint from 5:00 to 7:00
18.0	Solid debris removal, encrustation at joint from 4:00 to 6:00
27.9	Solid debris removal, encrustation at joint at 2:00

<b>Brazier St (Asset No. MA)40006491</b>	<b>MH at Chelsea Av (Asset No. MH40004612) to (Asset No. MH40005934)</b>
Size/Shape	450 mm
Material	Concrete
Total Length	94.3 m
Sewer Depth to Invert – maximum	4.40 m
Design Condition	

Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH4000534	
7.3	Solid debris removal, encrustation at joint at 5:00
20.6	Solid debris removal, encrustation at joint at 3:00
25.5	Solid debris removal, encrustation at joint at 8:00
28.0	Solid debris removal, encrustation at joint at 8:00
28.2	Solid debris removal, encrustation on pipe wall from 8:00 to 12:00
29.4	Solid debris removal, encrustation at joint from 8:00 to 4:00
32.0	Solid debris removal, encrustation at service from 3:00 to 8:00
32.7	Solid debris removal, encrustation at joint from 5:00 to 8:00
36.5	Solid debris removal, encrustation at joint from 5:00 to 7:00
42.5	Solid debris removal, encrustation at joint from 6:00 to 7:00
45.8	Solid debris removal, encrustation at joint from 7:00 to 12:00
50.1	Solid debris removal, encrustation at joint from 5:00 to 7:00
54.0	Remove intruding service at 10:00
61.0	Solid debris removal, encrustation at joint from 7:00 to 10:00
66.0	Solid debris removal, encrustation at joint at 8:00
78.7	Remove intruding service at 10:00
88.9-90.0	Solid debris removal, encrustation on pipe wall from 7:00 to 12:00

<b>Bronx Av (Asset No. MA40006479)</b>	<b>1<sup>st</sup> MH E of Henderson Hy (Asset No. MH40005925) to 2<sup>nd</sup> MH E of Henderson Hy (Asset No. MH40005905)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	129.7 m
Sewer Depth to Invert – maximum	3.3 m
Design Condition	
Partially Deteriorated 3%	

<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40005925	
5.0	Remove intruding service at 2:00
7.4	Remove intruding service at 10:00
40.6	Solid debris removal, encrustation at service from 7:00 to 8:00
55.2	Solid debris removal, encrustation at service at 4:00
64.6	Solid debris removal, encrustation at joint at 7:00
67.0	Solid debris removal, encrustation at service at 8:00
70.7	Solid debris removal, encrustation at joint from 6:00 to 9:00
71.4	Solid debris removal, encrustation at joint at 4:00
72.4	Solid debris removal, encrustation at service at 8:00
73.4	Solid debris removal, encrustation at joint at 8:00
74.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
78.4-79.0	Solid debris removal, encrustation on pipe wall from 2:00 to 10:00
102.5	Solid debris removal, encrustation at service from 2:00 to 10:00
103.3	Solid debris removal, encrustation at service from 3:00 to 5:00
106.0	Solid debris removal, encrustation at joint from 3:00 to 5:00
108.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
108.6	Solid debris removal, encrustation at joint from 3:00 to 5:00
112.8	Solid debris removal, encrustation at service from 2:00 to 7:00
113.0	Solid debris removal, encrustation on pipe wall from 8:00 to 10:00
115.0	Solid debris removal, encrustation at service from 7:00 to 10:00
116.9	Solid debris removal, encrustation at joint from 7:00 to 10:00
117.3	Solid debris removal, encrustation at service from 2:00 to 6:00
118.7	Solid debris removal, encrustation at joint from 2:00 to 8:00
120.0	Solid debris removal, encrustation at service from 4:00 to 5:00
121.5	Solid debris removal, encrustation at joint from 3:00 to 8:00
124.1	Solid debris removal, encrustation at joint from 3:00 to 6:00

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<b>Burning Bush By (S Leg) SPL (Asset No. MA50005886)</b>	<b>1<sup>st</sup> MH E of Drake Bv (Asset No. MH50004991) to MH at Drake Bv (Asset No. MH50004982)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	98.5 m
Sewer Depth to Invert – maximum	4.08 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004991	
65.4	Solid debris removal, encrustation at service from 7:00 to 8:00

<b>Carmen Av (Asset No. MA40003376)</b>	<b>MH at Beatrice St (Asset No. MH40004711) to 1<sup>st</sup> MH W of Beatrice St (Asset No. MH40003086)</b>
Size/Shape	450mm
Material	Vitrified Clay
Total Length	101.9 m
Sewer Depth to Invert – maximum	3.52 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004711	
38.2	Solid debris removal, roots at joint from 4:00 to 5:00
39.2	Solid debris removal, encrustation at joint at 7:00
45.8	Solid debris removal, encrustation at service from 7:00 to 8:00

<b>Carriere Av (Asset No. MA70003211)</b>	<b>1<sup>st</sup> MH E of Des Meurons St (Asset No. MH70001420) to MH at Des Meurons St (Asset No. MH70022210)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	64.4 m
Sewer Depth to Invert – maximum	3.09 m
Design Condition	
Fully Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH70001420	
6.7	Solid debris removal, encrustation at joint from 3:00 to 6:00 Remove intruding service at 10:00
44.4	

<b>Cascade By (N Leg) (Asset No. MA50005161)</b>	<b>2<sup>nd</sup> MH W of Cascade By (E Leg) (Asset No. MH50004402) to MH at Autumnwood Dr (Asset No. MH50004396)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	69.3 m
Sewer Depth to Invert – maximum	4.8 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004402	
5.2	Solid debris removal, encrustation at service from 2:00 to 5:00 Solid debris removal, encrustation at service from 4:00 to 5:00 Solid debris removal, encrustation at joint from 2:00 to 10:00 Solid debris removal, encrustation at joint from 1:00 to 5:00
29.3	
36.3	
60.1	

<b>Chelsea Av (Asset No. MA40006407)</b>	<b>1<sup>st</sup> MH E of Henderson Hy (Asset No. MH40005856) to 2<sup>nd</sup> MH E of Henderson Hy (Asset No. MH40005908)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	125.9 m
Sewer Depth to Invert – maximum	3.26 m
Design Condition  Partially Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40005856  2.0  2.7  8.2  12.5  14.6  15.0 – 16.0  21.0  24.0  26.7  27.0-27.9  28.4  31.1  33.0  37.0-38.4  48.3  49.5  54.5  66.5  67.6  70.4  74.9	Solid debris removal, roots at joint at 4:00  Solid debris removal, roots at joint at 3:00  Solid debris removal, encrustation at joint from 8:00 to 4:00  Solid debris removal, encrustation at service from 8:00 to 3:00  Solid debris removal, encrustation at joint from 8:00 to 4:00  Solid debris removal, encrustation on pipe wall from 1:00 to 6:00  Solid debris removal, encrustation at joint from 7:00 to 11:00  Solid debris removal, encrustation at joint from 8:00 to 4:00  Solid debris removal, encrustation at service from 7:00 to 10:00  Solid debris removal, encrustation on pipe wall from 8:00 to 5:00  Solid debris removal, encrustation at joint from 8:00 to 4:00  Remove intruding service at 10:00  Solid debris removal, encrustation on pipe wall from 7:00 to 11:00  Solid debris removal, encrustation on pipe wall from 8:00 to 4:00  Solid debris removal, encrustation at joint from 8:00 to 4:00  Solid debris removal, encrustation on pipe wall at 8:00  Solid debris removal, encrustation on pipe wall from 8:00 to 4:00  Solid debris removal, encrustation at joint from 7:00 to 8:00  Solid debris removal, encrustation at joint from 4:00 to 5:00  Solid debris removal, encrustation at service from 7:00 to 8:00  Remove intruding service at 10:00

87.7	Solid debris removal, encrustation at service from 4:00 to 5:00
90.2	Solid debris removal, encrustation at service from 7:00 to 9:00
94.5	Solid debris removal, encrustation at service from 3:00 to 6:00
100.4	Solid debris removal, encrustation at service from 2:00 to 5:00
103.3	Remove intruding service at 2:00
107.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
110.4	Solid debris removal, encrustation at joint from 4:00 to 6:00
114.1	Solid debris removal, encrustation at joint at 4:00
121.3	Solid debris removal, encrustation at joint from 7:00 to 8:00
122.9	Remove intruding service at 2:00
123.1	Remove intruding service at 10:00

<b>Clonard Av (Asset No. MA50013175)</b>	<b>1<sup>st</sup> MH W of Egerton Rd (Asset No. MH50010593) to 2<sup>nd</sup> MH W of Egerton Rd (Asset No. MH50010594)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	153.7 m
Sewer Depth to Invert – maximum	2.98 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50010593	
0.6	Solid debris removal, encrustation at joint from 4:00 to 8:00
33.3	Remove intruding service at 2:00
52.1	Remove intruding service at 10:00
73.0	Solid debris removal, roots at joint at 4:00
101.0-102.5	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
110.1	Remove intruding service at 9:00
112.1	Remove intruding service at 2:00


<b>Conifer Av (Asset No. MA50005174)</b>	<b>2<sup>nd</sup> MH W of Autumnwood Dr (Asset No. MH50004409) to 1<sup>st</sup> MH W of Autumnwood Dr (Asset No. MH50004410)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	87.2 m
Sewer Depth to Invert – maximum	4.1 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004409	
13.0	Solid debris removal, encrustation at joint from 3:00 to 7:00
13.7	Solid debris removal, encrustation at joint from 2:00 to 7:00
44.5	Remove intruding service at 2:00
73.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
75.9	Solid debris removal, encrustation at joint at 3:00

<b>Conifer Cr (S Leg) (Asset No. MA50005175)</b>	<b>1<sup>st</sup> MH W of Autumnwood Dr (Asset No. MH50004410) to MH at Autumnwood Dr (Asset No. MH50004378)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	89.8 m
Sewer Depth to Invert – maximum	4.62m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004410	
24.5	Solid debris removal, encrustation at joint from 2:00 to 6:00
26.7	Solid debris removal, encrustation at joint at 10:00
39.2	Solid debris removal, encrustation at

41.5	joint from 10:00 to 4:00
42.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
43.1	Solid debris removal, encrustation at joint from 8:00 to 4:00
45.1	Solid debris removal, encrustation at joint from 8:00 to 4:00
49.9	Solid debris removal, encrustation at joint at 10:00
69.0	Solid debris removal, encrustation at joint from 8:00 to 9:00
69.0	Remove intruding service at 9:00
73.8	Solid debris removal, encrustation at service from 7:00 to 11:00
	Solid debris removal, encrustation at joint from 10:00 to 4:00

<b>Coral Cr (S Leg) (Asset No. MA50005179)</b>	<b>1<sup>st</sup> MH W of Autumnwood Dr (Asset No. MH50004413) to MH at Autumnwood Dr (Asset No. MH50004395)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	115.0 m
Sewer Depth to Invert – maximum	4.9 m
Design Condition	
Fully Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004413	
25.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
25.9	Solid debris removal, encrustation at joint at 8:00
27.4	Solid debris removal, encrustation at joint at 6:00
28.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
29.0	Solid debris removal, encrustation at joint from 10:00 to 4:00
30.4	Solid debris removal, encrustation at joint from 8:00 to 4:00

<b>Crestwood Cr (Asset No. MA50005133)</b>	<b>1<sup>st</sup> MH W of Covent Rd (Asset No. MH50004381) to MH at Autumnwood Rd (Asset No. MH50004379)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	111.9 m
Sewer Depth to Invert – maximum	4.79 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004381	
1.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
7.7	Solid debris removal, encrustation at service at 3:00
8.6	Solid debris removal, encrustation at service from 3:00 to 4:00
49.4	Solid debris removal, encrustation at service from 8:00 to 4:00
100.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
104.3	Remove intruding service at 2:00

<b>Crestwood Cr (Asset No. MA50005152)</b>	<b>MH at Durham By (E Leg) (Asset No. MH50004394) to MH at Durham By (W Leg) (Asset No. MH50004386)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	82.3 m
Sewer Depth to Invert – maximum	4.18 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50004394	
7.9	Solid debris removal, encrustation at joint from 10:00 to 3:00
13.4	Solid debris removal, encrustation at joint from 10:00 to 2:00
20.7	Solid debris removal, encrustation at joint from 9:00 to 2:00
21.6	Solid debris removal, encrustation at

31.9	joint from 9:00 to 2:00
70.0	Solid debris removal, encrustation at service from 2:00 to 5:00
	Solid debris removal, encrustation at joint at 5:00

<b>Cusson St (Asset No. MA50007726)</b>	<b>1<sup>st</sup> MH W of Archibald St (Asset No. MH70063455) to MH at Archibald St (W PL) (Asset No. MH70019275)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	80.4 m
Sewer Depth to Invert – maximum	4.49 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH70063455	
7.3	Solid debris removal, encrustation at joint at 4:00
36.0	Solid debris removal, encrustation at service at 3:00
43.0	Solid debris removal, encrustation at joint from 5:00 to 6:00
54.1	Solid debris removal, encrustation at joint at 4:00

<b>Des Meurons St (Asset No. MA50007301)</b>	<b>1<sup>st</sup> MH N of Vivian Av (Asset No. MH50006254) to MH at Vivian Av (Asset No. MH50006249)</b>
Size/Shape	350 mm
Material	Concrete
Total Length	43.5 m
Sewer Depth to Invert – maximum	4.07 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50006254	
2.4	Solid debris removal, encrustation at joint at 8:00

4.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
6.0-7.0	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
7.7	Solid debris removal, encrustation at joint from 8:00 to 4:00
8.3	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
9.6	Solid debris removal, encrustation at joint from 11:00 to 4:00
12.2	Solid debris removal, encrustation at joint from 8:00 to 3:00
16.7	Solid debris removal, encrustation at joint from 8:00 to 3:00
17.7	Solid debris removal, encrustation at joint from 8:00 to 3:00
18.6	Solid debris removal, encrustation at joint from 8:00 to 3:00
26.0	Solid debris removal, encrustation at joint from 8:00 to 3:00
27.0	Solid debris removal, encrustation at joint from 8:00 to 3:00
27.7	Solid debris removal, encrustation at joint from 9:00 to 3:00
31.6	Solid debris removal, encrustation at joint from 11:00 to 6:00
32.4	Solid debris removal, encrustation at joint from 8:00 to 3:00

<b>Donegal By (S Leg) (Asset No. MA40007682)</b>	<b>2<sup>nd</sup> MH E of London St (Asset No. MH40006994) to 1<sup>st</sup> MH E of London St (Asset No. MH40007035)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	119.2 m
Sewer Depth to Invert – maximum	3.58 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40006994	
2.4-5.0	External Point Repair
7.7	Remove intruding service at 10:00
7.7	Solid debris removal, encrustation at service from 7:00 to 10:00
14.0	Remove intruding service at 9:00

25.5	Solid debris removal, encrustation at joint from 8:00 to 12:00
60.0	Solid debris removal, encrustation at joint at 9:00
76.5	Solid debris removal, encrustation at joint at 8:00
78.0-78.6	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
83.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
84.3	Solid debris removal, encrustation at joint from 4:00 to 8:00
90.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
91.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
93.0	Solid debris removal, encrustation at joint at 8:00
93.6	Solid debris removal, encrustation at service from 4:00 to 8:00
111.6	Solid debris removal, encrustation at roots from 7:00 to 11:00

<b>Dunrobin Av (Asset No. MA40006119)</b>	<b>1<sup>st</sup> MH W of Watt St (Asset No. MH40005957) to MH at Watt St (Asset No. MH40005592)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	119.1 m
Sewer Depth to Invert – maximum	4.47 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH	
0.0	Solid debris removal, encrustation at joint from 3:00 to 4:00
14.2	Solid debris removal, roots at service from 2:00 to 5:00
16.5	Solid debris removal, roots at service from 7:00 to 10:00
73.5-74.5	External Point Repair
77.7	Solid debris removal, encrustation at joint from 7:00 to 10:00
88.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
93.3	Solid debris removal, encrustation at joint from 8:00 to 4:00


<b>Elm Park (Asset No. MA50014351)</b>	<b>1<sup>st</sup> MH E of Killarney St (Asset No. MH50011473) to 2<sup>nd</sup> MH E of Killarney St (Asset No. MH50011474)</b>
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	112.8 m
Sewer Depth to Invert – maximum	4.29 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50011473	
16.0	Remove intruding service at 2:00
17.1	Remove intruding service at 2:00
17.1	Solid debris removal, encrustation at service from 2:00 to 4:00
26.6	External Point Repair – repair service connection
27.5	Remove intruding service at 2:00
29.6	Remove intruding service at 10:00
34.1	Solid debris removal, encrustation at joint from 8:00 to 4:00
42.4	Solid debris removal, encrustation at joint from 8:00 to 9:00
43.7	Remove intruding service at 3:00
46.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
48.0	Solid debris removal, encrustation at joint at 5:00
49.6	Solid debris removal, encrustation at joint from 2:00 to 4:00
103.7	Remove intruding service at 2:00

Fifth Av (Asset No. MA50010566)	1sy MH W of Youville St (Asset No. MH50008572) to MH at Des Meurons St (Asset No. MH50008573)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	117.0 m
Sewer Depth to Invert – maximum	3.65 m
Design Condition	Fully Deteriorated 10%
Site Specific Repairs	
Location	Required Action
Distance From MH50010566	
0.6	Solid debris removal, roots at joint from 1:00 to 5:00
34.5	Remove intruding service at 2:00
52.0	Remove intruding service at 2:00
52.0	Solid debris removal, encrustation at service from 1:00 to 5:00
60.0	Solid debris removal, encrustation at joint from 7:00 to 12:00
75.3	Remove intruding service at 3:00
75.6	Solid debris removal, encrustation at service from 3:00 to 6:00
87.4	Solid debris removal, encrustation at joint from 3:00 to 9:00
89.2	Solid debris removal, encrustation at joint from 2:00 to 10:00
90.4	Solid debris removal, encrustation at joint from 3:00 to 9:00
90.7	Solid debris removal, encrustation at service at 9:00
91.2	Solid debris removal, encrustation at joint from 8:00 to 11:00
91.8	Solid debris removal, encrustation at joint from 8:00 to 10:00
92.3	Solid debris removal, encrustation at joint from 3:00 to 9:00
94.8	Solid debris removal, encrustation at joint from 2:00 to 10:00
95.4	Solid debris removal, encrustation at joint from 3:00 to 10:00
96.6	Solid debris removal, encrustation at joint from 8:00 to 10:00
97.8	Solid debris removal, encrustation at joint from 8:00 to 9:00
108.4	Solid debris removal, encrustation at joint from 1:00 to 6:00
112.2	Solid debris removal, encrustation at joint from 8:00 to 12:00

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<b>Flynn St (Asset No. MA50014949)</b>	<b>MH at Talon By (Asset No. MH50012014) to MH at Barrington Av (Asset No. MH50012015)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	75.3 m
Sewer Depth to Invert – maximum	4.67 m
Design Condition	
Fully Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50012014	
No prep work required.	

<b>Gillies Cr (Asset No. MA40011440)</b>	<b>2<sup>nd</sup> MH W of Hatcher Rd (Asset No. MH40010381) to MH at Gillies Cr (Asset No. MH40010369)</b>
Size/Shape	250mm
Material	Concrete
Total Length	88.0m
Sewer Depth to Invert – maximum	4.3m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40010381	
3.9	Solid debris removal, encrustation at service from 7:00 to 11:00
4.9	Solid debris removal, encrustation at joint from 8:00 to 4:00
6.2	Solid debris removal, roots at service at 10:00
16.5	Solid debris removal, encrustation at service from 7:00 to 11:00
24.0	Solid debris removal, encrustation at joint from 7:00 to 4:00
24.7	Solid debris removal, encrustation at joint from 1:00 to 4:00

32.0	Solid debris removal, encrustation at joint from 7:00 to 11:00 External Point Repair
46.1-47.7	
54.7	
59.4	
85.1	

<b>Glen Av (Asset No. MA50017782)</b>	<b>1<sup>st</sup> MH E of Killarney St (Asset No. MH50014380) to 2<sup>nd</sup> MH E of Killarney St (Asset No. MH50014390)</b>
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	69.9 m
Sewer Depth to Invert – maximum	4.70 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50014380	
6.0-8.0	Solid debris removal, encrustation on pipe wall at 4:00
7.6	Remove intruding service at 10:00
11.1	Solid debris removal, encrustation at joint from 8:00 to 4:00
12.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
27.0-30.0	Solid debris removal, encrustation on pipe wall at 7:00

<b>Glenlawn Av (Asset No. MA70001565)</b>	<b>2<sup>nd</sup> MH W of Sunset Bv (Asset No. MH50010956) to 1<sup>st</sup> MH W of Sunset Bv (Asset No. MH50010948)</b>
Size/Shape	300mm
Material	concrete
Total Length	77.6 m
Sewer Depth to Invert – maximum	4.16 m
Design Condition	

Partially Deteriorated 8%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50010956	
15.3	Solid debris removal, encrustation at joint from 9:00 to 10:00
25.1-26.7	External Point Repair
33.1	Solid debris removal, encrustation at joint from 9:00 to 10:00
33.8	Solid debris removal, encrustation at joint from 2:00 to 4:00
36.0	Solid debris removal, encrustation at joint from 10:00 to 2:00
50.7	Solid debris removal, encrustation at joint from 2:00 to 5:00
54.6	Solid debris removal, encrustation at joint from 2:00 to 6:00
55.3	Solid debris removal, encrustation at joint at 3:00
61.3	Solid debris removal, encrustation at joint at 8:00
61.8-62.8	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
63.7	Solid debris removal, encrustation at joint at 8:00
64.5	Solid debris removal, encrustation at joint at 9:00
66.3	Remove intruding service at 3:00
68.8	Solid debris removal, encrustation on pipe wall at 6:00
70.9	Remove intruding service at 2:00

<b>Humboldt Av (Asset No. MA)50013157</b>	<b>1<sup>st</sup> MH E of Des Meurons St (Asset No. MH50010572) to 1<sup>st</sup> MH W of Des Meurons St (Asset No. MH50010573)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	126.2 m
Sewer Depth to Invert – maximum	4.37 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50010572	

0.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
1.2	Solid debris removal, encrustation at joint from 7:00 to 10:00
1.8	Solid debris removal, encrustation at joint from 1:00 to 4:00
2.7	Solid debris removal, encrustation at joint from 7:00 to 9:00
3.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
4.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
5.0	Solid debris removal, encrustation at service from 8:00 to 4:00
6.4	Solid debris removal, encrustation at joint from 1:00 to 5:00
6.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
7.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
8.3	Solid debris removal, encrustation at joint from 8:00 to 2:00
15.9	Solid debris removal, encrustation at service at 1:00
20.7	Remove intruding service at 10:00
27.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
29.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
47.1	Solid debris removal, encrustation at joint from 1:00 to 3:00
53.6	Solid debris removal, encrustation at service from 7:00 to 1:00
61.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
64.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
71.0	Solid debris removal, encrustation at joint at 12:00
73.7	Solid debris removal, encrustation on pipe wall at 8:00
74.7	Solid debris removal, encrustation at joint from 7:00 to 10:00
78.5-80.1	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
80.9	Solid debris removal, encrustation at joint from 7:00 to 11:00
81.4	Solid debris removal, encrustation at service from 7:00 to 3:00
83.8	Solid debris removal, encrustation on pipe wall from 1:00 to 4:00
122.7	Solid debris removal, encrustation at service from 1:00 to 4:00
124.0	External Point Repair

<b>Kernaghan Av (Asset No. MA70009860)</b>		<b>3<sup>rd</sup> MH E of Plessis Rd (Asset No. MH70003886) to 2<sup>nd</sup> MH E of Plessis Rd (Asset No. MH40010760)</b>	
Size/Shape		250 mm	
Material		Concrete	
Total Length		106.7 m	
Sewer Depth to Invert – maximum		3.31 m	
Design Condition			
Fully Deteriorated 5%			
<b>Site Specific Repairs</b>			
<b>Location</b>		<b>Required Action</b>	
Distance From MH70003886		Hole – line through	
70.0			

<b>Kildonan Dr (E Leg) (Asset No. MA40006867)</b>		<b>1<sup>st</sup> MH S of Canterbury PI (Asset No. MH40006295) to MH at Kildonan Dr (S Leg) (Asset No. MH40006296)</b>	
Size/Shape		300 mm	
Material		Concrete	
Total Length		78.7 m	
Sewer Depth to Invert – maximum		4.09 m	
Design Condition			
Partially Deteriorated 3%			
<b>Site Specific Repairs</b>			
<b>Location</b>		<b>Required Action</b>	
Distance From MH40006295		Solid debris removal, encrustation at joint from 1:00 to 5:00	
22.9		Remove intruding service at 2:00	
25.2			
26.9		Solid debris removal, encrustation at service from 2:00 to 4:00	
27.8		Solid debris removal, encrustation at service from 8:00 to 10:00	
28.9		Solid debris removal, roots at service from 7:00 to 11:00	
36.2		Solid debris removal, encrustation at service at 9:00	

37.9	Remove intruding service at 10:00
49.3	Remove intruding service at 10:00
49.6	Solid debris removal, encrustation at joint from 4:00 to 8:00
58.6	Solid debris removal, encrustation at service from 8:00 to 10:00
58.9	Solid debris removal, encrustation at joint from 6:00 to 8:00
60.7	Solid debris removal, encrustation at joint at 5:00
62.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
64.7	Solid debris removal, encrustation on pipe wall from 4:00 to 6:00

<b>Kimberley Av (Asset No. MA40005147)</b>	<b>2<sup>nd</sup> MH E of Roch St (Asset No. MH40004680) to MH at Watt St (Asset No. MH40003902)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	119.8 m
Sewer Depth to Invert – maximum	5.09 m
Design Condition	
Fully Deteriorated 12%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004680	
0.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
1.2	Solid debris removal, encrustation at joint from 1:00 to 5:00
3.2	Solid debris removal, encrustation at service from 7:00 to 10:00
5.2	Solid debris removal, encrustation at joint from 12:00 to 5:00
5.8	Solid debris removal, encrustation at joint from 7:00 to 11:00
6.6	Solid debris removal, encrustation at joint from 4:00 to 8:00
7.4	Solid debris removal, encrustation at joint at 4:00
9.8	Solid debris removal, encrustation at joint at 8:00
10.4	Solid debris removal, encrustation at joint from 8:00 to 4:00
11.9	Solid debris removal, encrustation at

17.7	joint at 8:00
21.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
34.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
46.5	Hole – line over
66.0	Solid debris removal, encrustation at joint at 8:00
69.7	Solid debris removal, encrustation at joint from 4:00 to 8:00
70.5	Solid debris removal, encrustation at joint at 8:00
74.5	Solid debris removal, encrustation at joint at 4:00
76.5	Solid debris removal, encrustation at joint at 8:00
77.7	Solid debris removal, encrustation at service at 4:00
82.8	Solid debris removal, encrustation at joint from 8:00 to 10:00
85.2	Solid debris removal, encrustation at joint from 7:00 to 8:00
86.2	Solid debris removal, encrustation at service from 7:00 to 8:00
101.5	Solid debris removal, encrustation at joint at 8:00
115.4	Solid debris removal, encrustation at joint from 4:00 to 8:00

<b>Langevin St (Asset No. MA50003042)</b>	<b>1<sup>st</sup> MH N of Dollard Bv (Asset No. MH50002568) to MH at Dollard Bv (Asset No. MH50002564)</b>
Size/Shape	450 mm
Material	Concrete
Total Length	104.6 m
Sewer Depth to Invert – maximum	3.73 m
Design Condition	
Fully Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50002568	
11.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
12.3	Remove intruding service at 2:00
14.1	Remove intruding service at 9:00

28.4	Remove intruding service at 9:00
30.5	Remove intruding service at 2:00
53.9	Solid debris removal, encrustation at service from 7:00 to 10:00
67.5	Solid debris removal, encrustation at service from 2:00 to 5:00
69.0-92.0	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00

<b>Martin Av (Asset No. MA40008914)</b>	<b>2<sup>nd</sup> MH W of Roch St (Asset No. MH40008114) to 3<sup>rd</sup> MH W of Roch St (Asset No. MH40008135)</b>
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	102.9 m
Sewer Depth to Invert – maximum	4.27 m
Design Condition	
Fully Deteriorated 13%	Excessive roots entire length
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40008114	
0.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
1.8	Solid debris removal, roots at joint from 7:00 to 8:00
2.9	Solid debris removal, roots at joint at 7:00
3.3	Remove intruding service at 10:00
7.0-18.0	Solid debris removal, roots at joints from 4:00 to 8:00
18.7	Solid debris removal, roots at joint from 7:00 to 10:00
19.0	Solid debris removal, roots at joint from 2:00 to 5:00
20.1	Solid debris removal, roots at joint from 4:00 to 8:00
24.4	Solid debris removal, roots at joint at 8:00
35.5	Solid debris removal, roots at service at 4:00
38.5	Remove intruding service at 10:00

41.1	Remove intruding service at 2:00
44.6	Solid debris removal, roots at service at 4:00
46.9	Solid debris removal, roots at joint at 4:00
48.6	Solid debris removal, roots at joint at 4:00
48.9	Solid debris removal, roots at service from 4:00 to 5:00
49.6	Solid debris removal, roots at service from 7:00 to 9:00
100.6	Hole – line over

<b>Martin Av (Asset No. MA40005190)</b>	<b>2<sup>nd</sup> MH W of Henderson Hy (Asset No. MH40004697) to MH at Beatrice St (Asset No. MH40004729)</b>
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	113.3 m
Sewer Depth to Invert – maximum	3.2 m
Design Condition	
Fully Deteriorated 10%	Excessive Roots entire length
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004697	
14.5	Remove intruding service at 10:00

<b>McCalman (Asset No. MA40010901)</b>	<b>1<sup>st</sup> MH E of Keenleyside St (Asset No. MH40009354) to MH at Keenleyside St (Asset No. MH40009850)</b>
Size/Shape	450 mm
Material	Concrete
Total Length	92.1 m
Sewer Depth to Invert – maximum	4.40 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40009354	

28.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
29.4	Solid debris removal, encrustation at joint from 4:00 to 5:00
36.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
38.9	Solid debris removal, encrustation at joint from 4:00 to 6:00
40.3	Solid debris removal, encrustation at joint from 4:00 to 6:00
41.2	Solid debris removal, encrustation at joint from 4:00 to 7:00
69.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
70.3-71.6	Solid debris removal, encrustation on pipe wall from 2:00 to 10:00
74.7-75.7	Solid debris removal, encrustation on pipe wall from 2:00 to 8:00
76.2	Solid debris removal, encrustation at joint at 8:00
83.2	Solid debris removal, encrustation at joint at 5:00
84..0	Solid debris removal, encrustation at joint at 5:00

<b>Melbourne Av (Asset No. MA40004299)</b>	<b>2<sup>nd</sup> MH E of Watt St (Asset No. MH40003940) to 1<sup>st</sup> MH E of Watt St (Asset No. MH40004575)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	131.8 m
Sewer Depth to Invert – maximum	3.10m
Design Condition	
Deteriorated %	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40003940	
3.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
4.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
5.4	Solid debris removal, encrustation at joint from 4:00 to 5:00
7.7	Solid debris removal, encrustation at joint at 8:00
9.2	Solid debris removal, encrustation at joint from 3:00 to 8:00
11.5	Solid debris removal, encrustation at joint from 4:00 to 9:00

12.3	Solid debris removal, encrustation at joint from 4:00 to 10:00
13.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
15.5	Solid debris removal, encrustation at joint at 4:00
16.4	Solid debris removal, encrustation at joint at 4:00
17.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
18.7	Solid debris removal, encrustation at joint from 4:00 to 8:00
19.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
21.5	Solid debris removal, encrustation at joint at 8:00
22.6	Solid debris removal, encrustation at joint at 4:00
23.2	Solid debris removal, encrustation at joint at 4:00
24.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
28.3	Solid debris removal, encrustation at joint from 4:00 to 5:00
28.9	Solid debris removal, encrustation at joint at 4:00
31.0	Solid debris removal, encrustation at joint at 8:00
31.6	Remove intruding service at 10:00
32.2	Solid debris removal, encrustation at joint at 4:00
32.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
36.3	Remove intruding service at 2:00
37.7	External Point Repair – repair service connection
42.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
43.1	Solid debris removal, encrustation at joint at 8:00
46.1	Solid debris removal, encrustation at joint from 4:00 to 8:00
47.1	Solid debris removal, encrustation at joint at 4:00
47.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
50.1	Solid debris removal, encrustation at joint at 8:00
57.1	Solid debris removal, encrustation at joint at 8:00
63.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
64.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
66.3	Remove intruding service at 2:00
68.5	Remove intruding service at 10:00

79.5	Remove intruding service at 2:00
80.0	Remove intruding service at 10:00
80.9	Solid debris removal, encrustation at joint from 8:00 to 4:00
81.7	Solid debris removal, encrustation at joint from 2:00 to 10:00
82.4	Solid debris removal, encrustation at joint from 8:00 to 4:00
83.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
83.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
84.6	Solid debris removal, encrustation at joint from 3:00 to 8:00
85.5	Solid debris removal, encrustation at joint from 7:00 to 9:00
86.3	Solid debris removal, encrustation at joint from 2:00 to 6:00
89.4	Solid debris removal, encrustation at joint at 4:00
90.1	Solid debris removal, encrustation at joint at 4:00
90.8	Remove intruding service at 10:00
91.0	Solid debris removal, encrustation at joint from 2:00 to 6:00
92.5	Solid debris removal, encrustation at joint from 4:00 to 9:00
93.4	Solid debris removal, encrustation at joint from 7:00 to 9:00
95.0	Solid debris removal, encrustation at joint at 8:00
95.8	Solid debris removal, encrustation at joint from 7:00 to 8:00
99.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
100.6	Solid debris removal, encrustation at joint at 8:00
104.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
105.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
108.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
109.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
111.6	Solid debris removal, encrustation at joint from 3:00 to 8:00
112.4	Solid debris removal, encrustation at joint at 8:00
113.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
114.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
114.6	Solid debris removal, encrustation at joint from 7:00 to 8:00

116.4	Solid debris removal, encrustation at joint from 4:00 to 5:00
117.4	Solid debris removal, encrustation at joint at 10:00
118.8	Solid debris removal, encrustation at joint from 7:00 to 8:00
122.5	Solid debris removal, encrustation at joint at 4:00
128.3	Solid debris removal, encrustation at joint at 9:00

<b>Melrose Av W (Asset No. MA40011759)</b>	<b>1<sup>st</sup> MH W of Winona St (Asset No. MH40010913) to MH at Melrose Av W (Asset No. MH40010624)</b>
Size/Shape	200 mm
Material	Asbestos Cement
Total Length	147.6 m
Sewer Depth to Invert – maximum	2.37 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40010913	
11.1	Remove intruding service at 10:00
13.1	Remove intruding service at 3:00
39.5	Remove intruding service at 9:00
67.0	Remove intruding service at 10:00
89.2	Remove intruding service at 10:00
118.1	Remove intruding service at 9:00

<b>Neil Av (Asset No. MA40004959)</b>	<b>1<sup>st</sup> MH E of Watt St (Asset No. MH40004513) to MH at Watt St (Asset No. MH40004499)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	98.1 m
Sewer Depth to Invert – maximum	4.03 m
Design Condition	

Fully Deteriorated 12%	
Site Specific Repairs	
Location	Required Action
Distance From MH40004513	
0.0-3.9	Solid debris removal, encrustation on pipe wall from 2:00 to 9:00
4.0	Solid debris removal, encrustation at joint from 10:00 to 2:00
5.0	Solid debris removal, encrustation at joint from 2:00 to 10:00
5.8	Solid debris removal, encrustation at joint at 4:00
6.5	Solid debris removal, encrustation at joint at 8:00
7.3	Solid debris removal, encrustation at joint from 2:00 to 9:00
10.0	Solid debris removal, encrustation at joint at 4:00
10.5	Solid debris removal, encrustation at joint at 8:00
11.5	Solid debris removal, encrustation at joint from 2:00 to 10:00
12.1	Solid debris removal, encrustation at joint at 5:00
12.8	Solid debris removal, encrustation at joint at 8:00
13.6	Solid debris removal, encrustation at joint at 4:00
15.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
15.8	Remove intruding service at 10:00
16.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
17.6	Solid debris removal, encrustation at joint from 4:00 to 8:00
18.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
19.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
20.7	Solid debris removal, encrustation at joint from 4:00 to 8:00
22.3	Solid debris removal, encrustation at joint from 6:00 to 8:00
23.1	Solid debris removal, encrustation at joint from 6:00 to 8:00
25.5	Solid debris removal, encrustation at joint from 6:00 to 8:00
26.3	Solid debris removal, encrustation at joint from 6:00 to 8:00
27.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
28.6	Solid debris removal, encrustation at joint from 7:00 to 8:00
30.6	Solid debris removal, encrustation at joint from 7:00 to 5:00

31.7	Solid debris removal, encrustation at joint from 7:00 to 5:00
32.5	Solid debris removal, encrustation at joint from 7:00 to 5:00
33.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
34.1	Solid debris removal, encrustation at joint from 7:00 to 5:00
35.6	Solid debris removal, encrustation at joint from 7:00 to 5:00
36.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
37.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
38.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
38.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
39.5	Solid debris removal, encrustation at joint from 7:00 to 5:00
40.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
41.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
42.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
42.7	Solid debris removal, encrustation at joint from 7:00 to 5:00
43.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
45.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
45.9	Solid debris removal, encrustation at service from 7:00 to 11:00
46.5	Solid debris removal, encrustation at joint from 7:00 to 5:00
47.6	Solid debris removal, encrustation at joint from 7:00 to 5:00
48.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
51.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
52.1	Solid debris removal, encrustation at joint from 7:00 to 5:00
52.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
54.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
55.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
56.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
57.5	Solid debris removal, encrustation at joint from 7:00 to 5:00
59.1	Solid debris removal, encrustation at joint from 7:00 to 5:00
60.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
60.8	Solid debris removal, encrustation at

63.8-65.1	joint from 7:00 to 5:00 Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
66.1	Solid debris removal, encrustation at joint from 7:00 to 5:00
67.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
69.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
70.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
70.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
71.6	Solid debris removal, encrustation at joint from 7:00 to 5:00
72.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
73.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
74.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
75.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
75.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
83.4	Solid debris removal, encrustation at joint from 7:00 to 5:00

<b>Newman Av (Asset No. MA40014144)</b>	<b>MH at Wabasha St (Asset No. MH40012780) to 1<sup>st</sup> MH W of Wabasha St (Asset No. MH40012779)</b>
Size/Shape	250mm
Material	Concrete
Total Length	116.3 m
Sewer Depth to Invert – maximum	4.03 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40012780	
37.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
82.6	Remove intruding service at 10:00
107.5	Remove intruding service at 2:00
108.1	Solid debris removal, encrustation at service from 8:00 to 2:00

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<b>Nottingham Av (Asset No. MA40007790)</b>	<b>1<sup>st</sup> MH E of Grey St (Asset No. MH40007086) to MH at Grey St (Asset No. MH40007090)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	95.9 m
Sewer Depth to Invert – maximum	5.07 m
Design Condition	
Fully Deteriorated 13%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40007086	
17.8	Solid debris removal, encrustation at joint from 2:00 to 10:00
18.9	Remove intruding service at 10:00
19.4	Solid debris removal, encrustation at joint from 4:00 to 10:00
20.4	Solid debris removal, encrustation at joint at 8:00
21.8	Solid debris removal, encrustation at joint from 9:00 to 3:00
46.8	Remove intruding service at 10:00
58.3	Solid debris removal, encrustation at joint from 1:00 to 3:00
71.6	Solid debris removal, encrustation at joint from 6:00 to 8:00
73.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
74.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
75.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
82.1	Solid debris removal, encrustation at joint from 7:00 to 10:00

<b>Plinguet St (Asset No. MA50009991)</b>	<b>1<sup>st</sup> MH W of Dawson Rd (Asset No. MH50008209) to 1<sup>st</sup> MH E of Archibald St (Asset No. MH70063277)</b>
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	102.3 m
Sewer Depth to Invert – maximum	3.65 m
Design Condition	

Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50008209	
1.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
4.6	Remove intruding service at 10:00
25.8	Remove intruding service at 2:00
26.7	Remove intruding service at 2:00
33.4	Remove intruding service at 10:00
54.0	Solid debris removal, encrustation at service from 7:00 to 10:00
76.0	Solid debris removal, encrustation at service from 2:00 to 6:00
92.3	Solid debris removal, encrustation at service from 2:00 to 6:00

<b>Riverton Av (Asset No. MA40007066)</b>	<b>MH at Talbot Av (Asset No. MH40006447) to 1<sup>st</sup> MH E of Talbot Av (Asset No. MH40006438)</b>
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	100.4 m
Sewer Depth to Invert – maximum	4.68 m
Design Condition	
Partially Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40006447	
37.2	Remove intruding service at 2:00
89.2	Solid debris removal, roots at service at 10:00

<b>Sherwood PI (Asset No. MA50009329)</b>	<b>2<sup>nd</sup> MH E of St Mary's Rd (Asset No. MH50007725) to 1<sup>st</sup> MH E of St Mary's Rd (Asset No. MH50007723)</b>
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	80.2 m
Sewer Depth to Invert – maximum	4.69 m
Design Condition	
Fully Deteriorated 15%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40006447	
14.8-16.4	External Point Repair
28.0	Solid debris removal, encrustation at joint at 9:00
40.8	Solid debris removal, roots at joint from 9:00 to 3:00
41.9	Solid debris removal, roots at joint from 9:00 to 3:00
42.7	Solid debris removal, roots at joint from 9:00 to 3:00
44.3	Solid debris removal, roots at joint at 4:00
44.6	Solid debris removal, roots at service at 3:00
45.1	Solid debris removal, roots at joint at 4:00

<b>Speers Rd (Asset No. MA70097036)</b>	<b>MH at Winakwa Rd (Asset No. MH70046116) to 1<sup>st</sup> MH N of Winakwa Rd (Asset No. MH70046115)</b>
Size/Shape	200 mm
Material	concrete
Total Length	119.8 m
Sewer Depth to Invert – maximum	2.91 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH70046116	
11.7	Solid debris removal, encrustation at joint from 8:00 to 3:00

18.2	Remove intruding service at 9:00
28.7	Remove intruding service at 3:00
32.5	Solid debris removal, encrustation at joint at 3:00
50.5	Remove intruding service at 9:00
50.5	Remove intruding service at 9:00
65.3	Remove intruding service at 9:00

<b>St Michael (Asset No. MA50014945)</b>	<b>MH at Pulberry St CL (Asset No. MH50012011) to 1<sup>st</sup> MH W of Pulberry St CL (Asset No. MH50011957)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	100.0 m
Sewer Depth to Invert – maximum	4.09 m
Design Condition	
Partially Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50012011	
10.0	Solid debris removal, encrustation at service from 7:00 to 10:00
18.9	Solid debris removal, encrustation at service from 7:00 to 8:00
18.9	Remove intruding service at 10:00
21.7	Solid debris removal, encrustation at service from 4:00 to 8:00
49.8	Solid debris removal, encrustation at service from 8:00 to 10:00
51.3	Solid debris removal, encrustation at service from 7:00 to 12:00
77.8	Solid debris removal, encrustation at service at 8:00

<b>Sydney Av (Asset No. MA40004969)</b>	<b>1<sup>st</sup> MH E of Watt St (Asset No. MH40004522) to MH at Watt St (Asset No. MH)40004554</b>
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Size/Shape	300 mm
Material	Concrete
Total Length	103.5
Sewer Depth to Invert – maximum	4.56 m
Design Condition	
Partially Deteriorated 5%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004522	
0.2	Solid debris removal, encrustation at joint from 2:00 to 5:00
0.6	Solid debris removal, encrustation at joint at 9:00
3.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
4.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
4.6	Solid debris removal, encrustation at service from 4:00 to 8:00
13.1	Remove intruding service at 2:00
14.3	Solid debris removal, encrustation at joint from 7:00 to 8:00
26.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
28.0	Solid debris removal, encrustation at service from 8:00 to 4:00
38.3	Remove intruding service at 2:00
39.2	Solid debris removal, encrustation at joint from 7:00 to 8:00
40.2	Solid debris removal, encrustation at joint from 7:00 to 8:00
40.9	Solid debris removal, encrustation at joint at 4:00
43.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
44.0	Solid debris removal, encrustation at joint from 4:00 to 8:00
47.7	Solid debris removal, encrustation at joint from 4:00 to 8:00
50.2	Solid debris removal, encrustation at joint from 7:00 to 11:00
52.	Solid debris removal, encrustation at joint from 7:00 to 8:00
52.9	Solid debris removal, encrustation at service from 2:00 to 5:00
58.1	Solid debris removal, encrustation at service from 7:00 to 11:00
65.0	Solid debris removal, encrustation at service from 2:00 to 3:00
67.5	Solid debris removal, encrustation at joint from 2:00 to 6:00
68.2	Solid debris removal, encrustation at

72.8	joint from 5:00 to 7:00
73.7	Solid debris removal, encrustation at service from 8:00 to 4:00
74.4	Solid debris removal, encrustation at joint at 7:00
76.7	Solid debris removal, encrustation at joint from 5:00 to 7:00
79.9	Solid debris removal, encrustation at joint from 5:00 to 7:00
82.3	Solid debris removal, encrustation at joint from 6:00 to 8:00
83.3	Solid debris removal, encrustation at joint from 4:00 to 5:00
84.7	Solid debris removal, encrustation at joint from 4:00 to 5:00
91.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
97.7	Solid debris removal, encrustation at joint from 1:00 to 5:00
	Solid debris removal, encrustation at joint from 4:00 to 8:00

<b>Talon By (Asset No. MA50014950)</b>	<b>1<sup>st</sup> MH W of Flynn St (Asset No. MH50012016) to MH at Flynn St (Asset No. MH50012014)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	120.4 m
Sewer Depth to Invert – maximum	3.83m
Design Condition	
Fully Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50012016	
No preparatory work required	

<b>Trent Av (Asset No. MA40004723)</b>	<b>3<sup>rd</sup> MH E of Henderson Hy (Asset No. MH40004305) to MH at Brazier By (Asset No. MH40004435)</b>
Size/Shape	375mm
Material	Vitrified Clay

Total Length	95.6m
Sewer Depth to Invert – maximum	4.29 m
Design Condition	
Fully Deteriorated 10%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004305	
4.3	Solid debris removal, encrustation at service from 2:00 to 6:00
7.2	Remove intruding service at 2:00
11.5	Remove intruding service at 10:00
20.1	Solid debris removal, encrustation at joint at 8:00
21.0	Solid debris removal, encrustation at joint from 2:00 to 6:00
22.7	Solid debris removal, encrustation at joint at 4:00
24.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
25.6	Solid debris removal, encrustation at joint from 3:00 to 7:00
45.0	Remove intruding service at 2:00
50.7	Solid debris removal, encrustation at joint at 4:00
54.4	External Point Repair
56.5	Solid debris removal, encrustation at service from 2:00 to 5:00
56.9	Solid debris removal, encrustation at joint from 4:00 to 5:00
57.9	Solid debris removal, encrustation at joint from 3:00 to 7:00
68.4	Solid debris removal, encrustation at joint at 7:00
68.7	Remove intruding service at 10:00
79.2	Solid debris removal, encrustation at joint at 7:00

<b>Trent Av (Asset No. MA40004983)</b>	<b>1<sup>st</sup> MH E of Brazier St (Asset No. MH40004530) to MH at Roch St (Asset No. MH40004545)</b>
Size/Shape	450 mm
Material	Vitrified Clay

Total Length	105.1 m
Sewer Depth to Invert – maximum	5.49 m
Design Condition	
Fully Deteriorated 12%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40004530	
33.7	Solid debris removal, encrustation at joint from 7:00 to 8:00
36.9	Solid debris removal, encrustation at service from 8:00 to 10:00
68.4-69.3	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
79.1	Solid debris removal, encrustation at joint from 7:00 to 10:00
87.6	Solid debris removal, encrustation at joint from 8:00 to 4:00

<b>Vincent Massey Bv (Asset No. MA50006273)</b>	<b>1<sup>st</sup> MH W if Vincent Massey Bv (E Leg) (Asset No. MH50005348) to MH at Vincent Massey (W Leg) (Asset No. MH50005349)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	73.1 m
Sewer Depth to Invert – maximum	4.42 m
Design Condition	
Partially Deteriorated 3%	
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH50005348	
5.6-9.0	Solid debris removal, encrustation at joint from 7:00 to 10:00
14.8-16.0	Solid debris removal, encrustation at joint from 10:00 to 2:00
17.7	Remove intruding service at 10:00
17.8	Solid debris removal, encrustation at joint at 4:00
20.9	Solid debris removal, encrustation at joint from 4:00 to 8:00
21.7	Solid debris removal, encrustation at joint from 4:00 to 8:00
22.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
32.7	Solid debris removal, encrustation at joint from 7:00 to 8:00

37.3	Solid debris removal, encrustation at joint from 7:00 to 8:00 Solid debris removal, encrustation at joint at 4:00 Solid debris removal, encrustation at joint from 3:00 to 5:00 Solid debris removal, encrustation at joint from 8:00 to 9:00
46.6	
66.0	
66.6	

<b>Wabasha St (Asset No. MA40013951)</b>		<b>MH at Park CI (N Leg) (Asset No. MH70050151) to MH at Kern Dr (Asset No. MH40012607)</b>	
Size/Shape		200 mm	
Material		Vitrified Clay	
Total Length		99.2 m	
Sewer Depth to Invert – maximum		4.41 m	
Design Condition			
Partially Deteriorated 8%			
<b>Site Specific Repairs</b>			
<b>Location</b>		<b>Required Action</b>	
Distance From MH70050151			
36.4			Solid debris removal, encrustation at joint from 8:00 to 4:00
72.0			Remove intruding service at 2:00

<b>Washington Av (Asset No. MA40005389)</b>		<b>MH at Brazier St (Asset No. MH40004911) to 1<sup>st</sup> MH W of Brazier St (Asset No. MH40004897)</b>	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		109.6m	
Sewer Depth to Invert – maximum		4.14m	
Design Condition			
Partially Deteriorated 3%			
<b>Site Specific Repairs</b>			
<b>Location</b>		<b>Required Action</b>	
Distance From MH40004911			
21.0			Solid debris removal, encrustation at joint at 4:00

32.2	Solid debris removal, encrustation at joint from 4:00 to 5:00
32.8	Solid debris removal, encrustation at joint from 2:00 to 3:00
33.4	Solid debris removal, encrustation at joint at 7:00
34.0	Solid debris removal, encrustation at joint at 8:00
49.7	Solid debris removal, encrustation at joint at 8:00
56.5	Solid debris removal, encrustation at joint from 7:00 to 8:00
62.2	Solid debris removal, encrustation at service from 7:00 to 11:00
70.8	Solid debris removal, encrustation at joint from 7:00 to 8:00
77.7	Solid debris removal, encrustation at joint from 7:00 to 10:00
79.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
82.7	Solid debris removal, encrustation at joint from 7:00 to 9:00
87.6	Solid debris removal, encrustation at joint from 7:00 to 9:00
89.9	Solid debris removal, encrustation at joint from 7:00 to 8:00
92.8	Solid debris removal, encrustation at service from 7:00 to 10:00
96.6	Solid debris removal, encrustation at service from 7:00 to 10:00
98.9	Solid debris removal, encrustation at joint from 6:00 to 12:00
102.0	Solid debris removal, encrustation at joint from 6:00 to 12:00
109.0	Solid debris removal, encrustation at joint from 4:00 to 5:00