

APPENDIX A – SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS

Arbuthnot Street (Asset No. MA60009932)	MH at Dudley Av (Asset No. MH60008359) to (Asset No. MH60008324)
Size/Shape	450 mm
Material	Asbestos Cement
Total Length	85.8 m
Sewer Depth to Invert – maximum	5.4 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60008359	
0.4	Hole – line over
15.0	Solid debris removal, encrustation at joint from 6:00 to 9:00
17.1	Solid debris removal, encrustation at joint at 6:00
25.2	Solid debris removal, encrustation at joint at 6:00
34.7	Solid debris removal, encrustation at joint at 7:00
42.6	Solid debris removal, encrustation at joint at 7:00
56.2	Solid debris removal, encrustation at joint from 6:00 to 9:00
58.2	Solid debris removal, encrustation at joint from 5:00 to 7:00
66.1	Solid debris removal, encrustation at joint from 5:00 to 7:00
76.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
77.0	Solid debris removal, encrustation at joint from 5:00 to 6:00

Armour Cr (Asset No. MA20003831)	1st MH S of Armour Cr (N Leg) (Asset No. MH20003522) to (Asset No. MH20003510)
Size/Shape	450 mm
Material	Concrete
Total Length	94.1 m
Sewer Depth to Invert – maximum	3.3 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	

Location	Required Action
Distance From MH20003522	
12.5	Solid debris removal, encrustation at service from 7:00 to 9:00
42.1	Remove intruding service at 10:00
42.8	Solid debris removal, encrustation at joint at 8:00
45.8	Remove intruding service at 10:00
47.7	Solid debris removal, encrustation at joint from 8:00 to 10:00
54.2	Solid debris removal, encrustation at joint from 7:00 to 9:00
59.7	Remove intruding service at 2:00
81.3	Remove intruding service at 2:00
86.0 – 89.2	Solid debris removal, roots at joint from 4:00 to 8:00
87.0	Remove intruding service at 10:00

Atkinson Rd (Asset No. MA60000467)	MH at Rannock Av (SPL) (Asset No. MH60000286) to MH at Rannock Av (NPL) (Asset No. MH60000287)
Size/Shape	200mm
Material	Concrete
Total Length	18.4 m
Sewer Depth to Invert – maximum	5.1 m
Design Condition	
Fully Deteriorated 10%	

Site Specific Repairs	
Location	Required Action
Distance From MH60000286	
No preparatory work required.	

Beaumont By (Asset No. MA60012260)	MH at Beaumont By (S Leg) (Asset No. MH60014885) to 1 st MH N of Beaumont By (S Leg) (Asset No. MH60014887)
Size/Shape	200mm
Material	Concrete
Total Length	51.3 m
Sewer Depth to Invert – maximum	4.2 m
Design Condition	

Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60014885	
0.0-13.5	External Point Repair (To Be Done By Others)
14.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
16.2	Solid debris removal, encrustation at joint from 4:00 to 12:00
17.9	Solid debris removal, encrustation at joint from 8:00 to 4:00
21.5	Solid debris removal, encrustation at joint from 8:00 to 11:00
30.4	Remove intruding service at 2:00
49.5-51.3	External Point Repair (To Be Done By Others)

Cathedral Av (Asset No. MA00009146)	MH at Salter St (WPL) (Asset No. MH00010843) to MH at Salter St (CL) (Asset No. MH00010862)
Size/Shape	300 mm
Material	Concrete
Total Length	6.7 m
Sewer Depth to Invert – maximum	4.5 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
No preparatory work required.	

Crowson By (W Leg) (Asset No. MA60017507)	MH at Crowson By (S Leg) (Asset No. MH60015154) to 1st MH N of Crowson By (S Leg) (Asset No. MH60015130)
Size/Shape	200 mm
Material	Concrete
Total Length	57.6 m
Sewer Depth to Invert – maximum	3.42 m
Design Condition	

Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60015154	
8.6	Remove intruding service at 9:00
16.8	Solid debris removal, encrustation at joint from 9:00 to 10:00
20.2	Solid debris removal, encrustation at joint from 7:00 to 12:00
23.7	Solid debris removal, encrustation at service from 1:00 to 3:00
40.3	Solid debris removal, encrustation at joint at 6:00
43.2	Solid debris removal, encrustation at service from 1:00 to 3:00
47.4	Solid debris removal, encrustation at service from 8:00 to 4:00
50.5	Solid debris removal, encrustation at joint at 4:00

Crowson By (W Leg) (Asset No. MA60017504)	1 st MH N of Crowson By (S Leg) (Asset No. MH60015130) to MH at Dowker Av (Asset No. MH60015135)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	62.4 m
Sewer Depth to Invert – maximum	4.39 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60015130	
0.0-2.4	External Point Repair (To Be Done By Others)
14.9	Remove intruding service at 10:00
16.3-17.8	External Point Repair (To Be Done By Others)
17.1	Solid debris removal, encrustation at service from 9:00 to 12:00
18.7	Solid debris removal, encrustation at joint from 8:00 to 4:00
19.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
31.9	Solid debris removal, encrustation at joint from 7:00 to 2:00
44.1	Remove intruding service at 3:00

51.0	Remove intruding service at 10:00
59.2	Solid debris removal, encrustation at joint from 4:00 to 5:00

De Baets St (Asset No. MA50011752)	7th MH N of Camiel Sys St (Asset No. MH50009481) to 8th MH N of Camiel Sys St (Asset No. MH50009946)
Size/Shape	250 mm
Material	Concrete
Total Length	92.1 m
Sewer Depth to Invert – maximum	4.3 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH50009481	
20.9	Solid debris removal, encrustation at joint from 1:00 to 4:00
37.7	Solid debris removal, encrustation at joint at 10:00
40.9	Solid debris removal, encrustation at joint at 10:00
48.5	Solid debris removal, encrustation at joint at 2:00
50.0	Solid debris removal, encrustation at joint from 2:00 to 3:00
50.4	Solid debris removal, encrustation at joint from 9:00 to 3:00
65.4	Solid debris removal, encrustation at joint from 9:00 to 3:00
91.4	Solid debris removal, encrustation at joint from 9:00 to 3:00

Deer Lodge PI (E Leg) (Asset No. MA20008603)	1st MH S of Portage Av (Asset No. MH20007913) to 2nd MH S of Portage Av (Asset No. MH20007917)
Size/Shape	250 mm
Material	Vitrified Clay
Total Length	72.8 m
Sewer Depth to Invert – maximum	3.85 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action

Distance From MH20007913	
3.1	Solid debris removal, encrustation at joint at 7:00
3.9	Remove intruding service at 10:00
39.3	Remove intruding service at 2:00
42.9	Remove intruding service at 3:00
52.0	Solid debris removal, encrustation at joint from 7:00 to 8:00
55.5	Solid debris removal, encrustation at service at 2:00
64.1	Solid debris removal, encrustation at joint from 1:00 to 3:00
64.7	Solid debris removal, encrustation at joint from 1:00 to 5:00
70.0-72.8	External Point Repair (To Be Done By Others)

Dudley Av (Asset No. MA60009173)	MH at Pembina Hy (Asset No. MH60007570) to MH at Daly St N (Asset No. MH70005567)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	101.3 m
Sewer Depth to Invert – maximum	6.91 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60007570	
30.9	Solid debris removal, encrustation at service from 7:00 to 5:00
44.3	Solid debris removal, encrustation at service from 2:00 to 6:00
51.7	Solid debris removal, encrustation at service from 2:00 to 6:00
67.0	Solid debris removal, encrustation at service from 2:00 to 6:00

Dudley Av (Asset No. MA60009101)	MH at Hugo St (Asset No. MH60007503) to MH at Pembina Hy (Asset No. MH60007570)
Size/Shape	450 mm

Material	Vitrified Clay
Total Length	73.1 m
Sewer Depth to Invert – maximum	6.73 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60007503	
40.7	Solid debris removal, encrustation at service from 7:00 to 10:00

Fleet Av (Asset No. MA60009164)	MH at Pembina Hy (Asset No. MH60007593) to 1st MH W of Pembina Hy (Asset No. MH60007563)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	65.0 m
Sewer Depth to Invert – maximum	3.48 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60007593	
0.5	Remove intruding service at 10:00
38.6	Solid debris removal, encrustation on pipe wall from 7:00 to 11:00
45.0	Solid debris removal, encrustation at service from 7:00 to 10:00
48.1	Solid debris removal, encrustation at joint from 7:00 to 10:00
63.5-65.0	External Point Repair (To Be Done By Others)

Guelph St (Asset No. MA70040525)	1st MH S of McMillan Av (Asset No. MH70017435) to MH at McMillan Av (Asset No. MH60008786)
Size/Shape	300 mm
Material	Concrete
Total Length	49.8 m
Sewer Depth to Invert – maximum	5.38 m
Design Condition	

Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH70017435 18.5	Solid debris removal, encrustation at joint from 1:00 to 4:00

Joyal PI (Asset No. MA50000925)	2nd MH E of Charboneau Cr (E Leg) (Asset No. MH50000801) to 1st MH E of CHarboneau Cr (E Leg) (Asset No. MH50000802)
Size/Shape	250 mm
Material	Concrete
Total Length	60.0 m
Sewer Depth to Invert – maximum	4.05 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH50000801 8.2 10.2-11.3	Solid debris removal, encrustation at joint at 6:00 External Point Repair (To Be Done By Others)

Lansdowne Av (Asset No. MA0011046)	1st MH W of McPhillips St (Asset No. MH00007376) to MH at McPhillips St (Asset No. MH00009061)
Size/Shape	375 mm
Material	Concrete
Total Length	98.0 m
Sewer Depth to Invert – maximum	4.05m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH00007376 0.0 39.1	Grout MH/Pipe interface (To Be Done By Others) Remove intruding service at 3:00

39.1	Solid debris removal, encrustation at service from 3:00 to 6:00
44.4	Solid debris removal, encrustation at joint from 4:00 to 6:00
49.2-49.9	Solid debris removal, encrustation on pipe wall from 3:00 to 11:00
51.0	Solid debris removal, encrustation at service from 5:00 to 10:00
56.6	Solid debris removal, encrustation at joint from 7:00 to 10:00
68.1	Solid debris removal, encrustation at joint from 4:00 to 6:00
70.4	Solid debris removal, encrustation at joint from 5:00 to 6:00
73.0-75.0	Solid debris removal, encrustation on pipe wall from 4:00 to 10:00
76.9-97.5	Solid debris removal, encrustation on pipe wall from 4:00 to 8:00

Lansdowne Av (Asset No. MA00007359)	2nd MH W of McPhillips St (Asset No. MH00007375) to 1st MH W of McPhillips St (Asset No. MH00007376)
Size/Shape	300 mm
Material	Concrete
Total Length	97.5 m
Sewer Depth to Invert – maximum	3.52 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH00007375	
71.8	Solid debris removal, encrustation at joint at 7:00
87.3	Solid debris removal, encrustation at service from 9:00 to 4:00

Lansdowne Av (W Leg) (Asset No. MA00007366)	1st MH N of Inkster Bv (Asset No. MH00007398) to Tie in at Inkster Bv (Asset No. S-Tie-In)
Size/Shape	375 mm
Material	Concrete
Total Length	93.2 m
Sewer Depth to Invert – maximum	6.3 m
Design Condition	
Fully Deteriorated 10%	

Site Specific Repairs	
Location	Required Action
Distance From MH00007398	
0.0-1.0	Hole – line through
45.7-46.7	Solid debris removal, encrustation on pipe wall from 1:00 to 10:00

Lyndale Dr (Asset No. MA50004068)	MH at Chandos Av (Asset No. MH50003532) to 1st MH E of Chandos Av (Asset No. MH50003533)
Size/Shape	300 mm
Material	Concrete
Total Length	97.8 m
Sewer Depth to Invert – maximum	3.88 m
Design Condition	
Fully Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH50003532	
77.5	Solid debris removal, encrustation at service from 7:00 to 12:00

Lyndale Dr (Asset No. MA50004067)	MH at Crawford Av (Asset No. MH50003502) to MH at Chandos Av (Asset No. MH50003532)
Size/Shape	300 mm
Material	Concrete
Total Length	99.7 m
Sewer Depth to Invert – maximum	3.58 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH50003502	
16.1	Remove intruding service at 10:00
56.3	Solid debris removal, roots at joint at 8:00
68.2	Solid debris removal, roots at joint at 4:00

73.0	Solid debris removal, roots at service from 8:00 to 11:00
71.3-78.2	Solid debris removal, roots on pipe wall at 4:00
84.8	Solid debris removal, roots at joint at 7:00

Manhattan Av (Asset No. MA40010709)	1st MH W of Molson St (Asset No. MH40009679) to MH at Foster St (Asset No. MH40009678)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	92.3 m
Sewer Depth to Invert – maximum	3.62 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH4009679	
0.9	Solid debris removal, roots at joint at 9:00
36.7	Solid debris removal, encrustation at joint at 6:00
49.9	Solid debris removal, encrustation at joint at 8:00

McMeans Av W (CL) (Asset No. MA40012656)	1st MH W of McMeans By (W Leg) (Asset No. MH40011446) to 2nd MH E of Hoka St (Asset No. MH40011447)
Size/Shape	200 mm
Material	Concrete
Total Length	68.3 m
Sewer Depth to Invert – maximum	4.64 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
No preparatory work required.	

Midred St (Asset No. MA40000505)	1st MH S of Knowles Av (Asset No. MH40000453) to Node at Knowles Av (Asset No. MH40000455)
Size/Shape	250 mm
Material	Concrete
Total Length	105.7 m
Sewer Depth to Invert – maximum	6.15 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH40000453	
21.1	Solid debris removal, encrustation at joint from 7:00 to 11:00
56.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
57.0	Solid debris removal, encrustation at joint from 5:00 to 6:00
58.5	Solid debris removal, encrustation at joint from 4:00 to 6:00
77.6	Solid debris removal, encrustation at joint from 8:00 to 4:00

Municipal Rd (Asset No. MA60000124)	1st MH N of Lacasa By (Asset No. MH60000031) to 2nd MH N of Lacasa By (Asset No. MH60000030)
Size/Shape	200 mm
Material	Concrete
Total Length	121.0 m
Sewer Depth to Invert – maximum	4.05 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH60000031	
0.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
12.1	Solid debris removal, encrustation at service from 8:00 to 4:00
18.3	Solid debris removal, encrustation at service from 10:00 to 5:00
18.9	Solid debris removal, encrustation at service at 4:00
19.7	Solid debris removal, encrustation on

27.0	pipe wall from 8:00 to 10:00
33.9	Solid debris removal, encrustation at joint from 2:00 to 10:00
34.4	Solid debris removal, encrustation on pipe wall at 8:00
52.8	Solid debris removal, encrustation at service from 8:00 to 10:00
53.8	Solid debris removal, encrustation at service from 7:00 to 5:00
54.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
58.2	Solid debris removal, encrustation at joint from 7:00 to 5:00
59.1	Solid debris removal, encrustation at service from 1:00 to 5:00
59.3-60.2	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
61.0	Solid debris removal, encrustation at joint from 8:00 to 3:00
65.2	Solid debris removal, encrustation at service from 1:00 to 4:00
68.4	Solid debris removal, encrustation at service from 8:00 to 3:00
80.3	Solid debris removal, encrustation at service from 7:00 to 5:00
82.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
83.9	Remove intruding service at 10:00
85.3	Solid debris removal, encrustation at service from 8:00 to 12:00
93.2	Solid debris removal, encrustation at service from 1:00 to 3:00
101.0	Solid debris removal, encrustation at service from 3:00 to 6:00
101.5	Solid debris removal, encrustation at service from 8:00 to 12:00
104.0	Solid debris removal, encrustation at service from 3:00 to 6:00
105.5	Solid debris removal, encrustation at service from 8:00 to 4:00
120.3-121.0	External Point Repair (To Be Done By Others)

Nassau St N (Asset No. MA60009227)	MH at Pembina Hy (EPL) (Asset No. MH60007625) to MH at Warsaw Av (Asset No. MH60008991)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	90.2 m
Sewer Depth to Invert – maximum	5.09 m
Design Condition	

Partially Deteriorated 5%	Excessive grease along entire length of sewer
Site Specific Repairs	
Location	Required Action
Distance From MH60007625	
20.4	Remove intruding service at 2:00
28.2	Remove intruding service at 2:00
65.5	Remove intruding service at 10:00

Niakwa Rd E (WPL) (Asset No. MA50003717)	1st MH N of Niakwa Rd E (S Leg) (Asset No. MH50003207) to MH at Niakwa Rd E (S Leg) (Asset No. MH50003188)
Size/Shape	250 mm
Material	Concrete
Total Length	104.3 m
Sewer Depth to Invert – maximum	4.71 m
Design Condition	
Fully Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH50003207	
4.7	Solid debris removal, encrustation at joint at 3:00
51.0	Solid debris removal, encrustation at service from 9:00 to 12:00
51.3	Remove intruding service at 2:00
51.3	Solid debris removal, encrustation at joint from 9:00 to 3:00
58.8	Solid debris removal, encrustation at joint from 9:00 to 3:00

North Dr (NPL) (Asset No. MA60013046)	1st MH W of Wicklow St (Asset No. MH60011098) to MH at Wicklow St (Asset No. MH60011201)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	94.2 m
Sewer Depth to Invert – maximum	4.62 m
Design Condition	
Fully Deteriorated 10%	

Site Specific Repairs	
Location	Required Action
Distance From MH60011098	External Point Repair (To Be Done By Others) Solid debris removal, encrustation at joint at 8:00
3.0-4.0	
41.5	

North Dr (NPL) (Asset No. MA60013108)	MH at Lyon St (Asset No. MH60011348) to MH at Riverside Dr (Asset No. MH60011262)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	40.6 m
Sewer Depth to Invert – maximum	6.06 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011348	External Point Repair (To Be Done By Others)
0.0-1.0	

Oakenwald Av(Asset No. MA60017517)	MH at Ruttan By (Asset No. MH60015229) to MH at Wicklow St (Asset No. MH60015146)
Size/Shape	250 mm
Material	Concrete
Total Length	103.5 m
Sewer Depth to Invert – maximum	5.43 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60015229	Solid debris removal, encrustation at joint from 3:00 to 8:00 Solid debris removal, encrustation at service from 8:00 to 4:00
2.7	
5.7	

12.8	Remove intruding service at 2:00
14.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
27.9	Solid debris removal, encrustation at joint from 1:00 to 5:00
29.4	Solid debris removal, encrustation at joint from 1:00 to 5:00
33.3	Solid debris removal, encrustation at joint from 1:00 to 5:00
40.3	Solid debris removal, encrustation at joint from 1:00 to 5:00
41.8	Solid debris removal, encrustation at joint at 4:00
45.7	Solid debris removal, encrustation at joint from 8:00 to 4:00
98.2	Solid debris removal, encrustation at joint at 8:00

Otter PI (Asset No. MA60016843)	MH at Buffalo PI (Asset No. MH60015445) to 1st MH N of Buffalo PI (Asset No. MH60014502)
Size/Shape	300 mm
Material	Concrete
Total Length	103.1 m
Sewer Depth to Invert – maximum	4.18 m
Design Condition	
Partially Deteriorated 5%	

Site Specific Repairs	
Location	Required Action
Distance From MH60015445	
15.9	Solid debris removal, encrustation at joint from 9:00 to 12:00
18.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
21.3	Solid debris removal, encrustation at joint from 7:00 to 10:00
26.7	Solid debris removal, encrustation at joint at 9:00
40.0	Remove intruding service at 10:00
47.1-49.1	External Point Repair (To Be Done By Others)
62.9	Solid debris removal, encrustation at joint from 1:00 to 4:00
70.2	Solid debris removal, encrustation at joint from 1:00 to 3:00
91.3-93.6	External Point Repair (To Be Done By Others)

Pacific Av (Asset No. MA20013383)	MH at Lily St (Asset No. MH20017176) to 1st MH E of Lily St (Asset No. MH20012109)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	58.6 m
Sewer Depth to Invert – maximum	3.00 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20017176	
11.2	Solid debris removal, broken pipe at at 2:00
17.6	Remove intruding service at 9:00
22.4	Remove intruding service at 3:00
23.0	Remove intruding service at 9:00
52.0	Remove intruding service at 2:00
56.8-58.6	External Point Repair (To Be Done By Others)

Pembina Hy (W of CL) (Asset No. MA60017345)	MH at Waterford Av (Asset No. MH60014978) to MH at Southwood Av (Asset No. MH60014971)
Size/Shape	375 mm
Material	Concrete
Total Length	109.7 m
Sewer Depth to Invert – maximum	5.1 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60014977	
67.3	Solid debris removal, encrustation at joint from 8:00 to 3:00
68.0	Solid debris removal, encrustation at joint from 9:00 to 4:00
69.0	Solid debris removal, encrustation at joint from 7:00 to 12:00
69.4	Remove intruding service at 10:00
74.1	Hole – line over

89.4	Remove bolt at 12:00
89.4	Solid debris removal, encrustation at service from 8:00 to 5:00
93.6	Remove intruding service at 10:00

Plinguet Street (Asset No. MA50009990)	MH at McTavish Street (Asset No. MH70063277) to MH at Archibald Street (Asset No. MH50008193)
Size/Shape	375 mm
Material	Concrete
Total Length	112.1 m
Sewer Depth to Invert – maximum	4.1 m
Design Condition	
Fully Deteriorated 10%	Inspection is incomplete – 49.0 to 112.1 no video
Site Specific Repairs	
Location	Required Action
Distance From MH70063277	
16.8	Solid debris removal, encrustation at service at 10:00
25.5	Remove intruding service at 9:00
33.6	Solid debris removal, encrustation at service at 7:00
48.3	Remove intruding service at 10:00

Ravelston Av W (Asset No. MA40013673)	1st MH W of Winona St (Asset No. MH40012386) to Mh at Winona St (Asset No. MH40012387)
Size/Shape	200 mm
Material	Concrete
Total Length	61.4 m
Sewer Depth to Invert – maximum	2.51 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
No preparatory work required.	

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Ravelston Av W (Asset No. MA40013830)	1st MH E of Bond St (Asset No. MH40012501) to MH at Bond St (Asset No. MH40012506)
Size/Shape	200 mm
Material	Asbestos Cement
Total Length	107.3 m
Sewer Depth to Invert – maximum	2.89 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40012501	
11.4	Solid debris removal, encrustation at joint from 3:00 to 6:00
24.1	Remove intruding service at 3:00
69.1	Solid debris removal, encrustation at joint from 7:00 to 10:00
92.7	Solid debris removal, encrustation at joint at 3:00
93.6	Solid debris removal, encrustation at joint from 7:00 to 12:00

Riley Cr (W Leg) (Asset No. MA60017535)	2nd MH N of Dowker Av (Asset No. MH60015207) to MH at Riley Cr (N Leg) (Asset No. MH60015151)
Size/Shape	200 mm
Material	Concrete
Total Length	78.6 m
Sewer Depth to Invert – maximum	5.59 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH60015207	
5.1	Solid debris removal, encrustation at joint from 8:00 to 12:00
8.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
9.0	Solid debris removal, encrustation at joint from 2:00 to 10:00
20.7	Solid debris removal, encrustation at joint from 8:00 to 2:00

27.6	Solid debris removal, encrustation at joint at 6:00
31.8	Solid debris removal, encrustation at joint at 8:00
32.3	Solid debris removal, encrustation at joint from 7:00 to 12:00
37.0	Solid debris removal, encrustation at joint from 9:00 to 3:00
40.2	Solid debris removal, encrustation at joint from 8:00 to 4:00
44.0	Solid debris removal, encrustation at joint from 7:00 to 11:00
44.8	Solid debris removal, encrustation at joint from 4:00 to 9:00
48.7	Solid debris removal, encrustation at joint from 8:00 to 4:00
52.7	Solid debris removal, encrustation at joint from 8:00 to 4:00
53.3	Solid debris removal, encrustation at joint from 8:00 to 4:00
54.9	Solid debris removal, encrustation at joint from 8:00 to 5:00
55.6	Solid debris removal, encrustation at joint from 9:00 to 4:00
56.4	Solid debris removal, encrustation at joint at 4:00
57.1	Solid debris removal, encrustation at joint at 3:00
61.1	Solid debris removal, encrustation at joint from 11:00 to 3:00
69.6	Solid debris removal, encrustation at joint from 11:00 to 5:00
75.4	Solid debris removal, encrustation at service from 9:00 to 3:00

Riverside Dr (Asset No. MA60013128)	MH at Windemere Av (Asset No. MH60011281) to Mh at Somerville Av (Asset No. MH60011278)
Size/Shape	375 mm
Material	Concrete
Total Length	78.6 m
Sewer Depth to Invert – maximum	5.59 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011281	
0.6	Remove intruding service at 10:00
13.0-18.3	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00

22.0-28.8	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00 Remove intruding service at 2:00 Solid debris removal, encrustation on pipe wall from 10:00 to 2:00 Solid debris removal, encrustation on pipe wall from 10:00 to 2:00 Solid debris removal, encrustation at service from 1:00 to 4:00 External Point Repair (To Be Done By Others)
28.8	
31.9-37.6	
47.5-58.2	
58.6	
54.3-68.1	

Roberta Av (CL) (Asset No. MA40001823)	1st MH E of Woodvale St (Asset No. MH40006103) to MH at Woodvale St (CL) (Asset No. MH40001688)
Size/Shape	300 mm
Material	Concrete
Total Length	124.7 m
Sewer Depth to Invert – maximum	4.35 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40006103	
5.6	Solid debris removal, encrustation at service from 1:00 to 4:00
11.4	Solid debris removal, debris on pipe wall from 1:00 to 4:00
21.7	Remove intruding service at 10:00
21.7	Solid debris removal, encrustation at service from 1:00 to 3:00
48.7	Remove intruding service at 2:00
63.4	Remove intruding service at 2:00
78.8	Remove intruding service at 2:00
94.2	Remove intruding service at 2:00
108.7	Remove intruding service at 2:00

Rupert Av (Asset No. MA70023383)	Mh at Lily St (Asset No. MH20017171) to 1st MH W of Martha St (Asset No. MH20017175)
Size/Shape	300 mm
Material	Vitrified Clay

Total Length	71.9 m
Sewer Depth to Invert – maximum	3.45 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
No preparatory work required.	

Rupert Av (Asset No. MA70020273)	MH at Amy St (Asset No. MH20017100) to MH at Lily St (Asset No. MH20017171)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	70.9 m
Sewer Depth to Invert – maximum	2.78 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20017100	
57.0	Solid debris removal, encrustation at service at 2:00

Salter St (Asset No. MA00009442)	1st MH S of Inkster Bv (Asset No. CS-01) to MH at Inkster Bv (SPL) (Asset No. MH00011105)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	73.9 m
Sewer Depth to Invert – maximum	6.0 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
No preparatory work required.	

South Dr (Asset No. MA60021312)	1st MH E of Point Rd (Asset No. MH60018268) to 2nd E of Point Rd (Asset No. 70066056)
Size/Shape	525 mm
Material	Vitrified Clay
Total Length	92.1 m
Sewer Depth to Invert – maximum	5.93 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60018268	
4.1-8.6	External Point Repair (To Be Done By Others)
10.0-14.0	Solid debris removal, encrustation on pipe wall from 4:00 to 8:00
19.8-33.1	Solid debris removal, encrustation on pipe wall from 4:00 to 8:00
46.1-46.6	Solid debris removal, encrustation on pipe wall from 4:00 to 8:00
48.2-49.8	External Point Repair (To Be Done By Others)
69.9	Solid debris removal, encrustation at joint from 6:00 to 8:00

South Dr (Asset No. MA60017730)	1st S of Dowker Av (Asset No. MH60015361) to MH at Dowker Av (Asset No. MH60015345)
Size/Shape	300 mm
Material	Concrete
Total Length	116.6 m
Sewer Depth to Invert – maximum	2.69 m
Design Condition	
Fully Deteriorated 10% (15%)	
Site Specific Repairs	
Location	Required Action
Distance From MH60015361	
80.0-82.0	Solid debris removal, encrustation at joint from 6:00 to 9:00
107.0	Displaced joint under water main – line through

Southwood Av (Asset No. MA60017269)	2nd MH E of Daniel St (Asset No.
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	MH60014959) to 1st MH E of Daniel St (Asset No. MH60014899)
Size/Shape	200 mm
Material	Concrete
Total Length	74.0 m
Sewer Depth to Invert – maximum	2.82 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60014959	
9.1	Remove intruding service at 10:00
24.7	Solid debris removal, encrustation at joint from 7:00 to 9:00
38.0-40.0	External Point Repair (To Be Done By Others)
65.5	Remove intruding service at 9:00

Southwood Av (Asset No. MA70130663)	1st MH E of Pembina Hy (Asset No. MH70065275) to MH at Pembina Hy (Asset No. MH60014971)
Size/Shape	250 mm
Material	Concrete
Total Length	63.6 m
Sewer Depth to Invert – maximum	4.8 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH70065275	
0.6	Solid debris removal, roots at joint from 5:00 to 8:00
1.2	Solid debris removal, roots at joint from 5:00 to 8:00
1.2-2.8	External Point Repair (To Be Done By Others)
3.1	Solid debris removal, roots at joint from 4:00 to 6:00
5.4	Solid debris removal, roots at joint from 5:00 to 8:00
13.4-15.5	External Point Repair (To Be Done By Others)
29.6-34.5	External Point Repair (To Be Done By Others)

55.4	Solid debris removal, encrustation at joint from 4:00 to 6:00

Southwood Av (Asset No. MA70065275)	2nd MH E of Pembina Hy (Asset No. MH60015012) to 1st MH E of Pembina Hy (Asset No. MH70065275)
Size/Shape	250 mm
Material	Concrete
Total Length	8.6 m
Sewer Depth to Invert – maximum	4.6 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Excessive roots entire length.	

Sparrow Rd (W Leg) (Asset No. MA60001302)	2nd MH S of Roblin (Asset No. MH60000944) to 3rd MH S of Roblin Bv (Asset No. MH60000943)
Size/Shape	250 mm
Material	Concrete
Total Length	66.1 m
Sewer Depth to Invert – maximum	4.4 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60000944	
9.0-14.6	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
17.0-17.5	Solid debris removal, encrustation on pipe wall at 10:00
18.4	Solid debris removal, encrustation on pipe wall at 10:00
18.4	Solid debris removal, encrustation at service at 2:00
19.0-22.2	Solid debris removal, encrustation on pipe wall from 10:00 to 1:00
27.2	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
28.4	Solid debris removal, encrustation at service from 8:00 to 4:00

32.7	Solid debris removal, encrustation at joint at 4:00
43.5	Solid debris removal, encrustation at service from 8:00 to 4:00
48.7	Solid debris removal, encrustation at joint from 8:00 to 4:00

Thompson Dr (Asset No. MA20005736)	Mh at Lodge Av (Asset No. MH20005257) to 1st MH S of Lodge Av (Asset No. MH20005256)
Size/Shape	250 mm
Material	Concrete
Total Length	115.0 m
Sewer Depth to Invert – maximum	unk
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20005257	
15.0	Remove intruding service at 10:00
49.1	Remove intruding service at 2:00
79.6	Remove intruding service at 2:00
91.7	Solid debris removal, encrustation at joint from 7:00 to 8:00
92.6	Solid debris removal, encrustation at joint from 7:00 to 2:00
94.8	Solid debris removal, encrustation at joint from 3:00 to 5:00
98.3	Solid debris removal, encrustation at service at 12:00
100.5-102.5	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
101.5	Remove intruding service at 10:00
109.6	Solid debris removal, encrustation at joint from 8:00 to 3:00
111.0	Solid debris removal, encrustation at joint at 5:00

Tuxedo Av (Asset No. MA70124493)	1st MH E of Edgeland Bv (Asset No. MH70060836) to 2nd MH E of Edgeland Bv (Asset No. MH60006116)
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Size/Shape	250 mm
Material	Concrete
Total Length	39.4 m
Sewer Depth to Invert – maximum	4.38 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH70060736	
13.7	Solid debris removal, encrustation at joint from 8:00 to 12:00
15.4	Solid debris removal, encrustation at joint from 10:00 to 4:00
26.0	Solid debris removal, encrustation at joint at 4:00
27.8	Solid debris removal, encrustation at joint at 8:00
32.0	Solid debris removal, encrustation at joint from 6:00 to 12:00

Victoria Av E (Asset No. MA4009876)	1st MH E of Redonda St (Asset No. MH40008944) to MH at Redonda St (Asset No. MH40008943)
Size/Shape	250 mm
Material	Concrete
Total Length	69.0 m
Sewer Depth to Invert – maximum	4.85 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40008944	
54.3	Hole – line over
67.4	Hole – line over
69.0	Replace Manhole (To Be Done By Others)

Viscount PI (CL) (Asset No. MA60013216)	1st MH W of Netley St (Asset No. MH60011358) to 2nd MH W of Netley St (Asset No. MH600011359)
Size/Shape	200 mm

Material	Concrete
Total Length	99.7 m
Sewer Depth to Invert – maximum	2.61 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011358	
0.6	Remove intruding service at 2:00
28.8-29.5	External Point Repair (To Be Done By Others)
48.0	Remove intruding service at 10:00
73.9	Remove intruding service at 10:00

Viscount Pl (Asset No. MA60013191)	2nd MH W of Netley St (Asset No. MH60011359) to MH at Point Rd (Asset No. MH60011332)
Size/Shape	200 mm
Material	Concrete
Total Length	67.1 m
Sewer Depth to Invert – maximum	3.3 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011359	
0.0-3.5	External Point Repair (To Be Done By Others)
29.9	Solid debris removal, encrustation at joint at 10:00
45.3-46.4	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
61.3-67.1	External Point Repair (To Be Done By Others)

Waterford Av (Asset No. MA60013212)	2nd MH E of Lyon St (Asset No. MH60011353) to 1st MH E of Lyon St (Asset No. MH60011354)
Size/Shape	200 mm
Material	Concrete

Total Length	73.4 m
Sewer Depth to Invert – maximum	3.0 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011353	
0.0-2.0	External Point Repair (To Be Done By Others)
11.9	Remove intruding service at 2:00
34.6	Solid debris removal, encrustation at joint from 10:00 to 2:00
40.4	Remove intruding service at 2:00
53.1	Solid debris removal, encrustation at joint from 11:00 to 2:00

Waterford Av (Asset No. MA70074801)	1st MH W of Point Rd (Asset No. MH70036041) to MH at Wicklow St (Asset No. MH60011177)
Size/Shape	200 mm
Material	Concrete
Total Length	116.1 m
Sewer Depth to Invert – maximum	4.5 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH70036041	
19.0	Remove intruding service at 2:00
32.3	Solid debris removal, roots at joint from 3:00 to 9:00
33.6-34.6	External Point Repair (To Be Done By Others)

Wildwood F Pk (Asset No. MA60013315)	1st MH S of Oakenwald Av (Asset No. MH60011457) to MH at Oakenwald Av (Asset No. MH60011446)
Size/Shape	200 mm
Material	Vitrified Clay

Total Length	56.5 m
Sewer Depth to Invert – maximum	4.01 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011457	
5.6-6.0	Service Connection Repair at 2:00 (To Be Done By Others)
15.8-16.8	External Point Repair (To Be Done By Others)

Wildwood C Pk (S Leg) (Asset No. MA60013402)	1st MH E of Wildwood C Pk (Asset No. MH60011533) to MH at North Dr (W Curb) (Asset No. MH60011556)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	63.8 m
Sewer Depth to Invert – maximum	4.16 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011533	
2.4	Solid debris removal, roots at joint from 8:00 to 4:00
4.8	Solid debris removal, roots at joint from 8:00 to 4:00
5.5	Solid debris removal, roots at joint at 8:00
6.2	Solid debris removal, roots at joint from 2:00 to 4:00
7.1	Solid debris removal, roots at joint from 2:00 to 4:00
13.7	Solid debris removal, roots at joint from 2:00 to 4:00
14.4	Solid debris removal, roots at joint from 8:00 to 4:00
15.4	Solid debris removal, roots at joint from 8:00 to 3:00
16.0	Solid debris removal, roots at joint from 8:00 to 2:00
17.5	Solid debris removal, roots at joint from 10:00 to 4:00
19.9	Solid debris removal, roots at joint from 8:00 to 3:00
22.2	Solid debris removal, encrustation at

23.0	joint from 9:00 to 3:00 Solid debris removal, encrustation at joint from 9:00 to 3:00
25.0	Solid debris removal, encrustation at joint from 9:00 to 10:00
27.4	Solid debris removal, encrustation at joint from 7:00 to 10:00
33.5	Solid debris removal, encrustation at joint from 10:00 to 11:00
36.6	Solid debris removal, encrustation at joint from 10:00 to 11:00
37.4	Solid debris removal, encrustation at joint from 10:00 to 3:00
40.7	Solid debris removal, encrustation at joint at 4:00
42.3	Solid debris removal, roots at service from 9:00 to 11:00
46.8	Solid debris removal, encrustation at joint at 2:00
49.0-56.0	External Point Repair (To Be Done By Others)
60.7	Solid debris removal, encrustation at joint from 10:00 to 2:00
62.3	Solid debris removal, roots at joint at 4:00

Wildwood B Pk (Asset No. MA60013434)	MH at Wildwood B Pk (W Leg) (Asset No. MH60011565) to 1st MH E of Wildwood B Pk (Asset No. MH60011567)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	49.7 m
Sewer Depth to Invert – maximum	4.8 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH60011565	
0.6	Solid debris removal, roots at joint from 8:00 to 4:00
19.2	Solid debris removal, roots at joint from 10:00 to 2:00
21.5	Solid debris removal, roots at joint from 8:00 to 4:00
22.3	Solid debris removal, roots at joint from 9:00 to 4:00
23.2	Solid debris removal, roots at joint from 12:00 to 2:00
23.9	Solid debris removal, roots at joint from 9:00 to 3:00
24.7	Solid debris removal, roots at

25.7	joint from 9:00 to 3:00
27.1	Solid debris removal, roots at joint from 8:00 to 4:00
29.3	Solid debris removal, roots at joint from 9:00 to 4:00
35.6	Solid debris removal, roots at joint from 9:00 to 3:00
43.4-46.0	Solid debris removal, roots at joint from 8:00 to 3:00
	External Point Repair (To Be Done By Others)

Winchester St (Asset No. MA20007930)	1st MH N of Ness Av (Asset No. MH20007269) to node S of Ness Av (Asset No. S-TE1)
Size/Shape	200 mm
Material	Concrete
Total Length	68.0 m
Sewer Depth to Invert – maximum	2.2 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20007269	
40.3	Solid debris removal, encrustation at joint at 4:00
51.1	Solid debris removal, encrustation at joint at 6:00
67.0	Solid debris removal, encrustation at joint at 5:00