

APPENDIX A - TABLE E7.1 : SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS PRIOR TO PERFORMING SEWER LINING	
Alex Taylor Drive (E Leg) (Asset No. MA40010258) Sanitary Sewer	2nd MH N of Corless Crescent (MH40009276) to 1st MH N of Corliss Cr (MH40009282)
Drawing Number	11837
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	103.3m
Maximum Sewer Depth to Invert	4.35m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40009276 (m)	
0.0	Remove roots from pipe wall at 10:00
0.0 to 1.3	Remove grease from pipe wall at 3:00
2.3 to 102.8	Remove grease from pipe wall from 9:00 to 3:00
6.0	Remove encrustaion from service at 3:00
14.3	Remove encrustaion from service at 3:00
48.9	Remove encrustaion from service at 3:00
52.2	Remove encrustaion from service at 3:00
61.0	Remove encrustaion from service at 3:00
66.4	Remove intruding service at 3:00
69.4	Remove encrustaion from service at 3:00
85.4	Remove encrustaion from service at 3:00
87.9	Remove encrustaion from service at 3:00
94.3	Remove encrustation from pipe joint from 7:00 to 5:00

Alex Taylor Drive (W Leg) (Asset No. MA40010249) Sanitary Sewer	4th MH S of Foxborough Rd (MH40007291) to MH at Blairmore Gardens (N Leg) (MH40009276)
Drawing Number	11838
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	77.0m
Maximum Sewer Depth to Invert	4.40m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40009271 (m)	
1.2	Remove roots from pipe joint at 4:00
1.4 to 2.8	Remove encrustation from pipe wall from 9:00 to 3:00
2.8 to 16.9	Remove grease from pipe wall from 10:00 to 2:00
10.3	Remove encrustaion from service at 2:00
16.9 to 22.1	Remove encrustation from pipe wall from 10:00 to 2:00
22.1 to 25.2	Remove grease from pipe wall from 10:00 to 2:00
25.2 to 29.2	External Point Repair (To Be Done By Others)
29.2 to 65.2	Remove encrustation from pipe wall from 3:00 to 9:00
30.2	Remove encrustaion from service at 2:00
47.0	Remove encrustation from pipe joint from 8:00 to 4:00
66.3	Remove encrustation from pipe wall at 7:00
67.8 to 72.4	Remove grease from pipe wall from 10:00 to 3:00
72.6 to 75.6	Remove encrustation from pipe wall from 8:00 to 4:00

Bond Street (Asset No. MA40013839)	MH at Whittier Ave W (MH40012509) to MH at Kildare Ave W (MH40012505)
Sanitary Sewer	
Drawing Number	11839
Size / Shape	250mm Circular
Material Type	Vitrified Clay
Total Length	97.0 m
Maximum Sewer Depth to Invert	5.96m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40012509 (m)	
0.0 to 3.1	Remove encrustation from pipe wall from 4:00 to 7:00
7.6	Remove encrustation from pipe joint from 1:00 to 5:00
7.7 to 7.8	Remove encrustation from pipe wall from 1:00 to 5:00
9.0 to 9.2	Remove encrustation from pipe wall at 3:00
11.4	Remove encrustation from pipe joint from 7:00 to 10:00
12.9 to 13.3	Remove grease from pipe wall at 11:00
13.3	Remove encrustation from pipe joint from 1:00 to 11:00
13.6 to 14.2	Remove grease from pipe wall from 11:00 to 1:00
15.2	Remove encrustation from pipe joint from 8:00 to 10:00
24.4	Remove encrustation from pipe wall at 8:00
26.2	Remove encrustation from pipe joint at 3:00
27.1 to 29.6	Remove grease from pipe wall from 8:00 to 12:00
30.2 to 30.3	Remove encrustation from pipe wall from 8:00 to 4:00
38.0	Remove encrustation from pipe joint from 2:00 to 10:00
43.0	Remove intruding service at 10:00
49.0	Remove encrustation from pipe joint at 2:00
53.9 to 54.1	Remove encrustation from pipe wall at 8:00
64.2	Remove intruding service at 2:00
70.1	Remove encrustation from pipe wall at 4:00
75.1	Remove intruding service at 10:00
87.1 to 89.6	Remove encrustation from pipe wall from 12:00 to 12:00

Brewster Bay (Asset No. MA40013359)	MH at NPL Kildare Ave W (MH40012088) to MH at Kildare Ave. (N curb) (MH40012087)
Sanitary Sewer	
Drawing Number	11840
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	7.2m
Maximum Sewer Depth to Invert	5.62m
Design Condition	Fully Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH40012088 (m)	
0.6	Remove encrustation from pipe wall
1.2	Remove encrustation from pipe joint
1.8	Remove encrustation from pipe wall
3.7	Remove encrustation from pipe wall
4.5	Remove encrustation from pipe joint
6.2	Remove encrustation from pipe joint
6.1 to MH	previously lined by others

Brewster Street (Asset No. MA40013288) Sanitary Sewer	MH at Lethbridge Ave (MH40012026) to MH at Cloverdale Cres (MH40012023)
Drawing Number	11841
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	85.2m
Maximum Sewer Depth to Invert	4.47m
Design Condition	Fully Deteriorated ovality 8%
Site Specific Repairs	
Location	Action Required
Distance From MH40012026 (m)	
2.5 to 6.2	External Point Repair (To Be Done By Others)
16.4	Remove intruding service at 3:00
21.2	Remove intruding service at 9:00
21.6	Remove encrustation from pipe joint from 7:00 to 9:00
26.2	Remove encrustation from pipe joint from 7:00 to 9:00
33.0	Remove encrustation from pipe wall at 4:00
36.0	Remove encrustation from pipe joint at 9:00
37.2	Remove encrustation from pipe joint at 4:00
38.2	Remove encrustation from pipe wall at 4:00
39.1	Remove encrustation from pipe joint at 8:00
51.9	Remove intruding service at 2:00
55.7	Remove intruding service at 10:00
59.3	Remove intruding service at 10:00
62.0	Remove encrustation from pipe wall from 3:00 to 9:00
63.3	Remove intruding service at 3:00
68.5	Remove encrustation from service at 3:00
72.0	Remove encrustation from service at 9:00
73.3	Remove encrustation from pipe joint from 3:00 to 9:00
74.4	Remove encrustation from pipe joint at 7:00
75.6 to 80.7	Remove grease from pipe wall at 4:00 and 9:00
83.0	Remove intruding service at 3:00
84.4	Remove encrustation from pipe wall from 8:00 to 3:00

Camelot Court (Asset No. MA40009871) 1st MH W of Redonda Street (MH40008939) to 2nd MH W of Redonda Street (MH40008896)	
Drawing Number	11842
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	100.1m
Maximum Sewer Depth to Invert	3.75m
Design Condition	Fully Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH40008939 (m)	
2.0	Remove encrustation from pipe joint from 2:00 to 7:00
14.2	Remove encrustation from pipe joint at 5:00
16.8 to 19.0	Remove encrustation from pipe wall from 5:00 to 7:00
19.4	Remove encrustation from service at 3:00
20.7 to 23.0	Remove encrustation from pipe wall from 5:00 to 7:00
28.4 to 28.9	Remove encrustation from pipe wall from 3:00 to 9:00
29.4 to 30.3	Remove encrustation from pipe wall from 3:00 to 9:00
31.0	Remove encrustation from pipe wall at 7:00
32.2 to 32.6	Remove encrustation from pipe wall from 3:00 to 9:00
33.3 to 33.8	Remove encrustation from pipe wall from 4:00 to 8:00
35.0	Remove encrustation from pipe wall at 4:00
35.4	Remove encrustation from service at 2:00
36.7	Remove encrustation from service at 9:00
38.9 to 42.6	External Point Repair (To Be Done By Others)
60.0 to 61.1	Remove grease from pipe wall from 3:00 to 9:00
62.0	Remove grease from pipe wall at 8:00
62.5	Remove grease from pipe wall from 4:00 to 8:00
65.9	Remove encrustation from pipe joint at 6:00
66.2	Remove encrustation from service at 9:00
66.7	Remove intruding service at 9:00
67.4	Remove encrustation from service at 3:00
68.0	Remove encrustation from service at 3:00
68.4	Remove encrustation from service at 3:00
69.1	Remove encrustation from service from 7:00 to 9:00
69.8	Remove encrustation from service at 10:00
71.5	Remove encrustation from pipe wall from 7:00 to 9:00
72.2 to 73.1	Remove encrustation from pipe wall from 7:00 to 12:00
76.5	Remove encrustation from pipe wall at 3:00
77.8	Remove encrustation from pipe wall at 4:00
80.4	Remove encrustation from pipe wall from 1:00 to 5:00
83.4	Remove encrustation from service at 2:00
83.8	Remove encrustation from service at 10:00
84.6	Remove encrustation from service at 9:00
87.7	Remove encrustation from pipe wall from 1:00 to 5:00
92.4	Remove encrustation from pipe joint from 7:00 to 12:00
93.6	Remove encrustation from pipe joint at 7:00
96.8	Remove encrustation from service at 2:00
97.2	Remove encrustation from pipe joint from 7:00 to 5:00
99.6	Remove encrustation from pipe joint from 7:00 to 5:00
99.8 to 100.0	Remove encrustation from pipe wall at 8:00 and 5:00

Crossgate Road (Asset No. MA40009788) Sanitary Sewer	1st MH North of Whitehall Blvd (MH40008877) to MH at Whitehall Blvd (MH40008864)
Drawing Number	11843
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	88.0m
Maximum Sewer Depth to Invert	3.8m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40008877 (m)	
0.0 to 22.1	Remove grease from pipe wall from 8:00 to 4:00
0.8	Remove encrustation from pipe joint from 7:00 to 4:00
6.4	Remove intruding service at 2:00
6.4	Remove encrustation from service at 2:00
7.7	Remove encrustation from service at 10:00
16.0	Remove encrustation from pipe wall at 9:00
22.9	Remove encrustation from service at 10:00
23.7	Remove encrustation from pipe wall from 8:00 to 10:00
27.8	Remove encrustation from pipe wall from 7:00 to 11:00
26.9 to 28.1	Remove grease from pipe wall at 12:00
28.1	Remove encrustation from service at 3:00
28.5	Remove encrustation from pipe wall from 7:00 to 9:00
28.9	Remove grease from pipe wall at 12:00
37.4 to 39.9	External Point Repair (To Be Done By Others)
53.6	Remove encrustation from service at 9:00
53.7	Remove encrustation from pipe wall from 7:00 to 10:00
59.7	Remove encrustation from pipe joint from 7:00 to 5:00
59.9	Remove encrustation from service at 3:00
61.7 to 62.4	Remove grease from pipe wall at 2:00
68.4	Remove encrustation from service at 9:00
68.5 to 68.8	Remove grease from pipe wall at 12:00
71.2	Remove encrustation from pipe joint from 7:00 to 5:00
75.0 to 75.4	Remove encrustation from pipe wall from 7:00 to 5:00
78.0 to 79.3	External Point Repair (To Be Done By Others)

Day Street (Asset No. MA40013907) Sanitary Sewer	MH at Whittier Ave W (MH40012564) to MH at Kildare Ave W CL (MH40012563)
Drawing Number	11844
Size / Shape	300mm Circular
Material Type	Vitrified Clay
Total Length	97.3m
Maximum Sewer Depth to Invert	5.24m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40012564 (m)	
2.1 to 3.8	Remove grease from pipe wall at 10:00
4.9 to 5.3	Remove grease from pipe wall at 10:00
6.8 to 9.7	Remove grease from pipe wall at 10:00
9.5	Remove roots from pipe joint
26.0	Remove encrustation from pipe wall at 9:00
39.5	Remove encrustation from pipe joint from 9:00 to 4:00
40.4	Remove encrustation from pipe joint from 9:00 to 4:00
49.5 to 52.0	External Point Repair (To Be Done By Others)
82.4	Remove encrustation from service at 2:00
86.3 to 87.0	Remove grease from pipe wall at 4:00 and 9:00
87.0 to 89.4	Remove grease from pipe wall from 9:00 to 3:00
90.1	Remove hanning gasket at 11:00
96.3	Remove encrustation from pipe wall at 6:00

Dowling Avenue East (Asset No. MA40012916) Sanitary Sewer	MH at Wabasha St (MH40011734) to 1st MH W of Wabasha St (MH40011688)
Drawing Number	11845
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	107.1m
Maximum Sewer Depth to Invert	4.46m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40011734 (m)	
15.4	Remove encrustaion from service at 2:00
18.4	Remove encrustaion from service at 11:00
23.5 to 25.2	Remove object from invert
24.4 to 25.0	Remove grease from pipe wall at 5:00
28.4	Remove encrustaion from service at 12:00
40.2	Remove encrustation from pipe wall at 8:00
48.5	Remove encrustaion from service at 12:00
48.5 to 49.1	Remove grease from pipe wall at 4:00
56.9	Remove grease from service at 12:00
64.6 to 65.9	Remove grease from pipe wall from 11:00 to 1:00
65.5	Remove encrustaion from service at 2:00
83.0	Remove intruding service at 10:00
86.0	Remove encrustaion from service at 12:00

Gables Court Easement W Leg (Asset No. MA40009989) Sanitary Sewer	1st MH N of Kildare Ave E (MH40009037) to MH at Kildare Ave E (MH40009035)
Drawing Number	11846
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	16.1m
Maximum Sewer Depth to Invert	5.36m
Design Condition	Fully Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH (m)	
0.0	Remove encrustation at pipe entrance at MH
13.5 to 16.1	Remove grease from pipe wall from 9:00 to 3:00

Gilles Crescent (W Leg) (Asset No. MA40011441) Sanitary Sewer	MH at Giles Cres (N Leg) (MH40010369) to MH at Hatcher Rd (MH40010370)
Drawing Number	11847
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	97.5m
Maximum Sewer Depth to Invert	4.32m
Design Condition	Partially Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40010369 (m)	
0.0	Remove encrustation from pipe joint from 2:00 to 6:00
0.6	Remove encrustation from pipe joint from 1:00 to 6:00
0.6 to 2.1	Remove encrustation from pipe wall from 12:00 to 3:00
6.7	Remove encrustation from service at 2:00
8.6	Remove encrustation from pipe joint from 1:00 to 11:00
8.6 to 12.3	Remove grease from pipe wall from 9:00 to 3:00
18.8	Remove encrustation from pipe joint from 6:00 to 12:00
22.1	Remove encrustation from service at 2:00
37.2	Remove encrustation from pipe joint from 9:00 to 11:00
38.1	Remove encrustation from pipe joint from 7:00 to 11:00
49.5	Remove encrustation from pipe joint from 8:00 to 5:00
56.2	Remove encrustation from pipe joint from 12:00 to 11:00
67.9	Remove encrustation from pipe joint at 7:00
67.9 to 68.1	Remove encrustation from pipe wall at 7:00
69.5	Remove encrustation from pipe joint from 4:00 to 7:00
71.0	Remove encrustation from pipe joint at 7:00
72.8	Remove encrustation from service
79.0 to 93.9	Remove encrustation from pipe wall from 3:00 to 9:00
97.0	Drop pipe connection at 6:00 (info)

Harvard Avenue West (Asset No. MA70055545) Sanitary Sewer	2nd MH W of Winona St (MH70024786) to 1st MH W of Winona St (MH40012344)
Drawing Number	11848
Size / Shape	200mm Circular
Material Type	Concrete, Vitrified Clay, PVC
Total Length	86.8m
Maximum Sewer Depth to Invert	2.92m
Design Condition	Fully Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH (m)	
12.5	Remove encrustation from pipe wall at 11:00
12.8	Remove encrustation from pipe joint from 9:00 to 2:00
17.8	Remove encrustation from pipe joint from 8:00 to 11:00
24.0	Remove encrustation from pipe joint from 8:00 to 1:00
25.8	Remove intruding service at 3:00
27.1	Remove encrustation from pipe joint from 8:00 to 3:00
29.4	Remove encrustation from pipe joint from 1:00 to 4:00
30.2	Remove encrustation from pipe joint from 8:00 to 3:00
31.7	Remove encrustation from pipe joint from 8:00 to 3:00
35.8	Remove intruding service at 9:00
51.9	Remove roots at service at 3:00
57.1 to 59.6	External Point Repair (To Be Done By Others)
67.1	Remove intruding service at 3:00
76.1	Remove intruding service at 3:00
84.5	Remove encrustation from pipe joint at 6:00

Hoka Street (Asset No. MA40013295)	MH at Rosseau Ave W (MH40012034) to MH at Harvard Ave. W (MH40012063)
Sanitary Sewer	
Drawing Number	11849
Size / Shape	450mm Circular
Material Type	Concrete
Total Length	87.3m
Maximum Sewer Depth to Invert	5.45m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40012034 (m)	
31.7	Remove encrustation from connection from 9:00 to 3:00
64.2	Remove encrustation from pipe wall at 10:00
64.9	Remove encrustation from pipe wall at 10:00
79.0 to 84.1	Remove grease from pipe wall from 9:00 to 3:00
84.0	Remove encrustation from service at 10:00
86.0	Remove hanging gasket at 3:00

Horton Avenue W (Asset No. MA40013736) Sanitary Sewer	MH at Winona Street (MH40012423) to 1st MH W of Bond Street (MH40012487)
Drawing Number	11850
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	80.3m
Maximum Sewer Depth to Invert	3.1m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40012423 (m)	
0.0	Remove encrustation from pipe wall at 2:00
6.3	Remove intruding service at 10:00
7.6	Remove encrustation from pipe wall at 1:00
8.3	Remove encrustation from pipe joint at 1:00
8.6	Remove encrustation from pipe wall From 1:00 to 7:00
10.2	Remove intruding service at 2:00
12.4	Remove encrustation from pipe joint from 1:00 to 4:00
15.5	Remove encrustation from pipe joint from 6:00 to 10:00
17.0	Remove encrustation from pipe joint from 3:00 to 6:00
17.8	Remove encrustation from pipe joint from 3:00 to 6:00
18.6	Remove encrustation from pipe joint from 3:00 to 6:00
19.8	Remove encrustation from service at 10:00
23.3	Remove encrustation from pipe joint from 7:00 to 11:00
23.6	Remove intruding service at 2:00
25.6	Remove encrustation from pipe joint from 3:00 to 8:00
27.2	Remove encrustation from pipe joint from 3:00 to 8:00
28.0	Remove encrustation from pipe joint from 3:00 to 6:00
31.9	Remove encrustation from pipe joint from 4:00 to 7:00
32.4	Remove intruding service at 2:00
34.2 to 36.6	External Point Repair (To Be Done By Others)
37.4	Remove encrustation from pipe joint from 2:00 to 11:00
38.1	Remove encrustation from pipe joint from 3:00 to 6:00
38.9	Remove encrustation from pipe joint from 3:00 to 6:00
39.8	Remove encrustation from pipe joint from 3:00 to 7:00
41.2	Remove encrustation from pipe joint from 6:00 to 11:00
43.1	Remove encrustation from pipe joint from 6:00 to 10:00
45.1	Remove encrustation from pipe joint from 3:00 to 6:00
45.5	Remove encrustation from pipe wall from 7:00 to 10:00
45.9 to 59.9	External Point Repair (To Be Done By Others)
63.5	Remove encrustation from pipe wall from 1:00 to 4:00
64.2	Remove encrustation from pipe wall from 1:00 to 4:00
64.4	Remove encrustation from pipe wall from 6:00 to 10:00
65.5	Remove encrustation from pipe wall from 3:00 to 10:00
66.7	Remove encrustation from pipe wall from 3:00 to 6:00
71.2	Remove encrustation from pipe wall from 3:00 to 9:00
79.4 to 80.0	Remove encrustation from pipe wall from 2:00 to 4:00

Hoskins Avenue (Asset No. MA40007869) Sanitary Sewer	1st MH W of London Ave (MH40007164) to 2nd MH W of London Ave (MH40007190)
Drawing Number	11851
Size / Shape	300mm Circular
Material Type	Concrete
Total Length	94.3m
Maximum Sewer Depth to Invert	4.64m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40007164 (m)	
4.8	Remove encrustation from pipe joint from 7:00 to 10:00
7.9	Remove encrustation from pipe joint from 2:00 to 3:00
11.8	Remove encrustation from pipe joint from 1:00 to 3:00
3.4	Remove encrustation from pipe joint from 1:00 to 3:00
14.2	Remove encrustation from pipe joint from 8:00 to 10:00
16.5	Remove encrustation from pipe joint at 10:00
18.1	Remove encrustation from pipe joint from 1:00 to 10:00
18.8	Remove encrustation from pipe joint from from 1:00 to 4:00
24.0	Remove intruding service at 10:00
35.1	Remove encrustation from pipe joint at 3:00
37.6	Remove encrustation from pipe joint from 7:00 to 10:00
42.4	Remove intruding service at 2:00
43.0	Remove encrustation from pipe joint at 3:00
43.9	Remove encrustation from pipe joint at 3:00
47.0	Remove intruding service at 2:00
49.1	Remove encrustation from pipe joint from 8:00 to 11:00
55.5	remove encrustation from pipe joint at 4:00
56.8	remove encrustation from service at 3:00
57.8	remove encrustiaotn from pipe joint at 3:00
58.4	Remove encrustation from pipe wall at 9:00
59.2	Remove encrustation from pipe joint from 1:00 to 4:00
60.0	Remove encrustation from pipe joint from 7:00 to 4:00
60.3	Remove intruding service at 10:00
61.0	Remove encrustation from pipe joint from 7:00 to 5:00
61.7	Remove encrustation from pipe joint at 9:00
62.7	Remove encrustation from pipe wall at 9:00
64.1	Remove encrustation from pipe joint from 7:00 to 10:00
64.3	Remove intruding service at 10:00
66.3 to 67.0	Remove encrustation from pipe wall from 3:00 to 5:00
90.6	Remove encrustation from pipe wall at 10:00
93.9	Remove roots from pipe wall at 4:00 and 7:00

Kernaghan Avenue (Asset No. MA40012285) Sanitary Sewer	5th MH W of Hoka Street (MH40010760) to 6th MH W of Hoka Street (MH40011109)
Drawing Number	11852
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	107.4m
Maximum Sewer Depth to Invert	4.20m
Design Condition	Partially Deteriorated ovality 2%
Site Specific Repairs	
Location	Action Required
Distance From MH40010760 (m)	
0.1	Remove encrustation from pipe joint from 3:00 to 6:00
15.2	Remove encrustation from pipe wall at 10:00
37.9	Remove encrustation from pipe joint from 1:00 to 5:00
39.7	Remove encrustation from pipe wall at 2:00
51.7	Remove encrustation from pipe joint from 12:00 to 12:00
51.7 to 56.0	Remove encrustation from pipe wall from 4:00 to 7:00
60.8	Remove encrustation from pipe joint from 12:00 to 12:00
66.7	Remove encrustation from pipe wall from 12:00 to 12:00
71.3	Remove encrustation from pipe wall from 3:00 to 9:00
71.5	Remove encrustation from pipe joint from 7:00 to 5:00
74.2 to 74.6	Remove encrustation from pipe wall from 7:00 to 11:00
79.6 to 79.9	Remove grease from pipe wall at 7:00
88.4	Remove encrustation from pipe joint from 6:00 to 9:00
91.3	Remove encrustation from pipe joint from 2:00 to 10:00
97.5	Remove encrustation from pipe joint from 1:00 to 11:00
105.1	Remove encrustation from pipe joint from 9:00 to 3:00
106.1	Remove encrustation from pipe wall from 8:00 to 4:00

Kildare Avenue E (Asset No. MA40010127) Sanitary Sewer	MH at McMeans Ave E (MH40009165) to MH at Zalaway Bay (E Leg) (MH40009156)
Drawing Number	11853
Size / Shape	525mm Circular
Material Type	Concrete
Total Length	96.6m
Maximum Sewer Depth to Invert	5.8m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40009165 (m)	
0.0 to 0.5	Remove grease from pipe wall at 4:00
3.8	Remove encrustation from pipe joint at 9:00
7.2	Remove encrustation from pipe joint at 10:00
9.2	Remove encrustation from pipe joint from 9:00 to 11:00
39.0	Remove encrustation from pipe joint from 9:00 to 11:00
42.8	Remove encrustation from pipe joint from 9:00 to 10:00
48.9	Remove encrustation from service at 12:00
52.7	Remove encrustation from pipe wall at 3:00
59.5	Remove encrustation from pipe joint at 3:00
80.7 to 81.1	Remove grease from pipe wall at 9:00 and 3:00
88.7 to 89.6	Remove grease from pipe wall at 3:00
89.1 to 91.8	External Point Repair (To Be Done By Others)

Knightsbridge Drive (Asset No. MA50015755) Sanitary Sewer	1st MH N of Meadowood Dr (MH50012598) to MH at Meadowood Dr (MH50012599)
Drawing Number	11854
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	85.6m
Maximum Sewer Depth to Invert	5.11m
Design Condition	Fully Deteriorated ovality 2%
Site Specific Repairs	
Location	Action Required
Distance From MH50012598 (m)	
0.7	Remove encrustation from pipe joint from 7:00 to 5:00
3.3 to 4.8	Remove grease from pipe wall at 12:00
9.3	Remove grease from pipe wall at 12:00
15.7	Remove encrustation from pipe joint from 3:00 to 9:00
15.7	Remove grease from pipe wall at 12:00
29.6	Remove encrustation from pipe joint at 7:00
30.9	Remove encrustation from pipe joint from 1:00 to 4:00
35.9	Remove encrustation from service at 2:00
54.3	Remove encrustation from service at 2:00
57.0	Remove grease from pipe wall at 10:00
58.4 to 61.2	Remove grease from pipe wall from 10:00 to 12:00
63.0 to 74.6	Remove grease from pipe wall from 10:00 to 12:00
77.6	Remove grease from pipe wall at 12:00

Larson Avenue (Asset No. MA40005248)	1st MH W of Brasier St (MH40004788) to 3rd MH W of Brazier St (MH40004810)
Combined Sewer	
Drawing Number	11855
Size / Shape	300mm Circular
Material Type	Vitrified Clay
Total Length	105.7m
Maximum Sewer Depth to Invert	3.96m
Design Condition	Partially Deteriorated ovality 3%
Site Specific Repairs	
Location	Action Required
Distance From MH40004788 (m)	
0.6	Remove encrustation from pipe joint at 7:00
4.2	Remove encrustation from pipe joint at 7:00
4.8	Remove encrustation from pipe joint at 7:00
10.6	Remove encrustation from pipe wall at 8:00
16.1	Remove encrustation from pipe wall from 1:00 to 3:00
22.5	Remove roots from service
31.9	Remove encrustation from pipe wall at 8:00
36.7	Remove encrustation from pipe wall from 1:00 to 3:00
40.9	Remove encrustation from pipe wall at 2:00
42.3	Remove encrustation from pipe joint at 9:00
43.8	Remove intruding service at 2:00
16.9	Remove encrustation from service at 10:00
47.5	Remove encrustation from service at 2:00
76.8	Remove encrustation from pipe wall at 10:00
79.8	Remove encrustation from pipe wall at 10:00
81.8	Remove encrustation from pipe joint at 4:00
90.0	Remove encrustation from service at 10:00
95.0 to 98.6	Remove grease from pipe wall at 4:00 and 7:00
98.6	Remove encrustation from pipe joint at 7:00
100.0 to 100.8	Remove grease from pipe wall at 4:00 and 7:00
102.9 to 103.6	Remove grease from pipe wall at 3:00

Larsen Avenue (Asset No. MA40005288)	2nd MH W of Brasier St (MH40004810) to MH at Henderson Hwy (MH40004801)
Sanitary Sewer	
Drawing Number	11856
Size / Shape	375mm Circular
Material Type	Vitrified Clay
Total Length	105.3m
Maximum Sewer Depth to Invert	4.43m
Design Condition	Fully Deteriorated ovality 3%
Site Specific Repairs	
Location	Action Required
Distance From MH40004810 (m)	
10.0	Remove encrustation from pipe joint at 7:00
17.4	Remove encrustation from pipe wall at 9:00
20.0	Remove encrustation from pipe wall at 4:00
21.3	Remove roots from pipe joint
22.3	Remove roots from pipe joint
23.1	Remove roots from pipe joint
24.7	Remove roots from pipe joint
25.4	Remove roots from pipe joint
26.1	Remove roots from pipe joint
26.6	Remove roots from service at 10:00
27.0	Remove roots from pipe joint
27.3	Remove roots from service at 2:00
27.7	Remove roots from pipe joint
28.5	Remove roots from pipe joint
29.2	Remove roots from pipe joint
30.0	Remove roots from pipe joint
30.7	Remove roots from service at 2:00
30.8	Remove roots from pipe joint
31.6	Remove roots from pipe joint
32.3	Remove roots from pipe joint
33.1	Remove roots from pipe joint
33.9	Remove roots from pipe joint
34.6	Remove roots from pipe joint
35.4	Remove roots from pipe joint
35.7	Remove roots from service at 10:00
40.3	Remove roots from service at 10:00
47.3	Remove encrustaion from service at 2:00
61.9	Remove encrustaion from service at 2:00
65.6	Remove encrustation from pipe wall at 4:00
68.2	Remove roots from pipe joint
70.5	Remove encrustaion from service at 10:00
71.0	Remove encrustation from pipe joint at 7:00
72.4	Remove encrustation from pipe joint at 7:00
73.0 to 76.7	Remove grease from pipe wall at 3:00
73.4	Remove encrustaion from service at 9:00
73.8	Remove encrustation from pipe joint from 8:00 mto 11:00
74.3	Remove encrustation from pipe joint from 8:00 mto 11:00
74.5	Remove encrustation from pipe wall from 7:00 to 12:00
76.8	Remove encrustation from pipe joint from 8:00 to 4:00
77.0	Remove encrustation from pipe wall from 7:00 to 11:00
77.4	Remove encrustation from pipe joint from 7:00 to 4:00
77.4	Remove grease from pipe wall at 8:00 and 4:00
77.9	Remove encrustation from pipe joint from 7:00 to 5:00
79.6	Remove encrustaion from service at 10:00
88.4	Remove encrustaion from service at 10:00
90.0 to 90.8	Remove encrustation from pipe wall from 7:00 to 5:00
93.4	Remove encrustaion from service at 2:00
96.4 to 97.7	Remove encrustation from pipe wall from 7:00 to 5:00
101.2 to 102.7	Remove encrustation from pipe wall from 7:00 to 5:00

Leola Street (Asset No. MA40009493)	MH at Whittier Ave E (MH40008621) to MH at Kildare Ave E (MH40008622)
Sanitary Sewer	
Drawing Number	11857
Size / Shape	250mm Circular
Material Type	Vitrified Clay
Total Length	108.3m
Maximum Sewer Depth to Invert	5.63m
Design Condition	Fully Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH40008621 (m)	
10.6	Remove encrustation from pipe joint from 11:00 to 1:00
19.3 to 19.5	Remove grease from pipe wall at 4:00
32.0	Remove encrustation from service at 12:00
32.8	Remove intruding service at 1:00
42.9 to 43.6	Remove grease from pipe wall from 10:00 to 2:00
44.3	Remove intruding service at 1:00
54.7 to 55.0	Remove grease from pipe wall from 9:00 to 4:00
57.3	Remove intruding service at 1:00
73.4	Remove encrustation from pipe wall at 12:00
73.9	Remove encrustation from pipe joint from 7:00 to 3:00
75.9	Remove encrustation from pipe joint at 10:00
78.1	Remove encrustation from pipe joint at 10:00
80.6	Remove grease from service at 12:00
84.1	Remove intruding service at 1:00
90.4	Remove encrustation from pipe joint at 7:00 to 10:00
91.3	Remove encrustation from pipe joint at 1:00 to 4:00
94.3	Remove intruding service at 12:00
96.6	Remove encrustation from pipe wall at 10:00
97.6	Remove encrustation from pipe wall at 5:00
98.1	Remove encrustation from pipe joint from 4:00 to 6:00
98.1 to 100.5	External Point Repair (To Be Done By Others)
106.4	Remove encrustation from pipe wall at 5:00

Lethbridge Avenue (Asset No. MA40013080) Sanitary Sewer	1st MH W of Kootenay Cres (MH40011837) to MH at Kootenay Cres (MH40011853)
Drawing Number	11858
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	66.5m
Maximum Sewer Depth to Invert	3.23m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40011837 (m)	
0.0 to 3.3	External Point Repair (To Be Done By Others)
4.1 to 4.5	Remove encrustation from pipe wall at 12:00
6.6	Remove encrustation from pipe wall at 8:00
6.7	Remove intruding service at 3:00
12.9	Remove encrustation from service at 3:00
18.3	Remove encrustation from pipe wall from 3:00 to 5:00
20.9 to 21.1	Remove encrustation from pipe wall from 5:00 to 9:00
21.8	Remove encrustation from pipe joint at 5:00
21.9	Remove intruding service at 3:00
22.7	Remove encrustation from pipe joint from 3:00 to 5:00
28.4	Remove encrustation from service at 3:00
31.9 to 32.1	Remove encrustation from pipe wall at 5:00
36.4	Remove encrustation from pipe wall from 5:00 to 7:00
38.8	Remove intruding service at 2:00
39.1	Remove encrustation from pipe wall at 5:00
40.9	Remove encrustation from pipe joint from 7:00 to 9:00
42.9	Remove encrustation from service at 3:00
47.6	Remove encrustation from pipe wall at 5:00
48.2	Remove encrustation from pipe wall at 5:00
48.9	Remove intruding service at 10:00
53.7	Remove encrustation from pipe joint at 5:00
54.5	Remove encrustation from pipe joint at 5:00
55.9	Remove intruding service at 2:00
58.3	Remove encrustation from pipe joint from 4:00 to 9:00
58.3 to 58.5	Remove encrustation from pipe wall at 5:00
60.1	Remove encrustation from pipe joint at 5:00
64.5	Remove encrustation from pipe joint from 7:00 to 5:00
66.4	Remove encrustation from pipe wall at 5:00 and 10:00

McMeans Avenue E (WPL) (Asset No. MA40010130) Sanitary Sewer	MH at Binscarth St (MH40009201) to MH at Kildare Ave E (MH40009165)
Drawing Number	11859
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	99.8m
Maximum Sewer Depth to Invert	5.79m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40009201 (m)	
0.0 to 33.7	Remove grease from pipe wall from 9:00 to 3:00
4.6	Remove encrustation from pipe joint at 3:00
6.1	Remove encrustation from pipe joint at 3:00
7.6	Remove encrustation from pipe joint at 3:00
9.1	Remove encrustation from pipe joint at 10:00
10.7	Remove encrustation from pipe joint from 12:00 to 3:00
13.7	Remove encrustation from pipe joint from 9:00 to 3:00
15.3	Remove encrustation from pipe joint from 9:00 to 3:00
16.8	Remove encrustation from pipe joint from 9:00 to 3:00
18.4	Remove encrustation from pipe joint from 10:00 to 3:00
18.7	Remove encrustation from service at 12:00
19.9	Remove encrustation from pipe joint from 12:00 to 3:00
20.6	Remove encrustation from service at 12:00
23.0	Remove encrustation from pipe joint at 3:00
24.5	Remove encrustation from pipe joint at 3:00
26.0	Remove encrustation from pipe joint at 3:00
27.5	Remove encrustation from pipe joint at 3:00
30.6	Remove encrustation from pipe joint at 9:00
32.2	Remove encrustation from pipe joint from 9:00 to 3:00
33.7	Remove encrustation from pipe joint from 9:00 to 3:00
35.2	Remove encrustation from pipe joint from 9:00 to 3:00
35.2 to 47.7	Remove grease from pipe wall from 10:00 to 2:00
36.7	Remove encrustation from pipe joint from 9:00 to 3:00
37.4	Remove encrustation from pipe wall at 4:00
38.3	Remove encrustation from pipe joint from 9:00 to 3:00
39.8	Remove encrustation from pipe joint from 9:00 to 3:00
45.9	Remove encrustation from pipe joint from 9:00 to 3:00
47.5	Remove encrustation from pipe joint from 9:00 to 3:00
49.0	Remove encrustation from pipe joint from 9:00 to 3:00
50.6	Remove encrustation from pipe joint from 9:00 to 3:00
52.1	Remove encrustation from pipe joint from 9:00 to 3:00
53.6	Remove encrustation from pipe joint from 9:00 to 3:00
55.1	Remove encrustation from pipe joint from 9:00 to 3:00
55.7 to 56.7	Remove grease from pipe wall at 11:00
56.7	Remove encrustation from pipe joint from 9:00 to 3:00
58.2	Remove encrustation from pipe joint from 9:00 to 3:00
60.4 to 61.3	Remove grease from pipe wall from 11:00 to 1:00
62.8	Remove encrustation from pipe joint from 9:00 to 3:00
68.4 to 78.0	Remove grease from pipe wall from 9:00 to 3:00
80.1 to 99.2	Remove grease from pipe wall from 9:00 to 3:00

McMeans Avenue E (SPL) (Asset No. MA40009332) Sanitary Sewer	MH at Alex Taylor Drive (MH40008470) to MH at McMeans Serv Rd N (MH40008474)
Drawing Number	11860
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	89.9m
Maximum Sewer Depth to Invert	4.4m
Design Condition	Fully Deteriorated ovality 8%
Site Specific Repairs	
Location	Action Required
Distance From MH40008470 (m)	
0.0 to 0.3	Stabilize hole at invert before lining from 5:00 to 7:00 (To Be Done By Others)
2.6 to 3.7	Remove encrustation from pipe wall from 11:00 to 1:00
14.8	Remove encrustation from pipe wall at 10:00
15.6	Remove encrustation from pipe wall at 1:00
16.6	Remove encrustation from pipe wall at 2:00
18.7	Remove grease from pipe wall at 10:00
19.6	Remove encrustation from service at 2:00
22.5 to 26.1	Remove grease from pipe wall from 11:00 to 2:00
26.7	Remove grease from pipe wall at 12:00
29.7	Remove encrustation from pipe wall from 7:00 to 5:00
33.7	Remove encrustation from pipe wall at 3:00
40.3	Remove encrustation from service at 3:00
40.4 to 41.5	Remove grease from pipe wall from 11:00 to 2:00
43.8	Remove encrustation from pipe joint at 3:00
47.0 to 48.1	Remove grease from pipe wall at 10:00
49.1 to 58.4	Remove grease from pipe wall from 10:00 to 2:00
60.7	Remove encrustation from pipe joint at 9:00
60.9 to 61.9	Remove grease from pipe wall from 11:00 to 1:00
63.8	Remove encrustation from pipe joint from 1:00 to 4:00
70.6	Remove encrustation from pipe joint from 3:00 to 9:00
76.9	Remove encrustation from pipe joint from 8:00 to 11:00
86.4 to 89.5	Remove grease from pipe wall from 10:00 to 3:00

McMeans Ave Serv Rd (S Leg) (Asset No. MA40010176) Sanitary Sewer	1st MH W of McMeans Ave E (MH40009208) to MH at McMeans Ave E (MH40009222)
Drawing Number	11861
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	45.3m
Maximum Sewer Depth to Invert	4.41m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40009208 (m)	
4.5	Remove intruding service 3:00
4.6 to 5.8	Remove roots from pipe wall 5:00
8.5	Remove roots from pipe joint 7:00
16.5 to 19.5	Remove grease from pipe wall 10:00 and 2:00
19.5	Remove intruding service 2:00
19.6 to 24.0	Remove grease from pipe wall 11:00 to 1:00
23.6	Remove encrustation from pipe wall from 3:00 to 9:00
24.0 to 24.9	Remove grease from pipe wall at 12:00
26.5 to 26.0	Remove grease from pipe wall at 12:00
27.0	Remove grease from pipe wall at 12:00
29.8	Remove encrustation from pipe wall at 3:00
30.7	Remove intruding service at 2:00
30.0 to 32.7	Remove grease from pipe wall at 12:00
34.6 to 36.2	Remove grease from pipe wall at 12:00
37.9	Remove grease from pipe wall at 11:00
40.1 to 40.3	Remove encrustation from pipe wall at 4:00
41.0	Remove grease from pipe wall at 11:00
43.0	Remove encrustation from pipe wall at 2:00
44.0	Remove encrustation from pipe joint from 9:00 to 3:00
45.3	Remove encrustation from pipe wall at 11:00

Neil Avenue (Asset No. MA40005026)	3rd MH W of Watt St (MH40004566) to 4th MH W of Watt St (MH40004567)
Combined Sewer	
Drawing Number	11862
Size / Shape	375mm Circular
Material Type	Concrete
Total Length	85.7m
Maximum Sewer Depth to Invert	4.71m
Design Condition	Fully Deteriorated ovality 2%
Site Specific Repairs	
Location	Action Required
Distance From MH40004566 (m)	
0.0 to 1.5	Remove roots from pipe wall
0.5	Remove encrustation from pipe joint at 3:00
2.6	Remove roots from pipe joint
3.3	Remove roots from pipe joint
4.2	Remove roots from pipe joint
4.5 to 4.8	Remove encrustation from pipe wall at 3:00
5.0	Remove roots from pipe joint
7.3	Remove encrustation from pipe joint at 10:00
8.5	Remove encrustation from service at 2:00
8.9	Remove encrustation from pipe wall from 1:00 to 4:00
9.7	Remove encrustation from pipe joint at 3:00
10.1	Remove encrustation from pipe wall at 2:00
11.3	Remove encrustation from pipe joint at 10:00
12.6	Remove encrustation from pipe joint at 9:00
13.2	Remove encrustation from pipe wall at 9:00
13.9	Remove encrustation from pipe wall at 3:00
14.5	Remove encrustation from pipe wall at 3:00 and 7:00
16.0	Remove encrustation from pipe joint from 3:00 to 9:00
18.0	Remove encrustation from service at 10:00
18.5	Remove encrustation from pipe joint from 4:00 to 9:00
19.2	Remove encrustation from pipe joint from 1:00 to 12:00
24.4	Remove intruding service at 2:00
27.8	Remove encrustation from pipe joint at 9:00
28.6	Remove encrustation from pipe joint at 9:00
43.0	Remove encrustation from service at 2:00
45.2	Remove intruding service at 2:00
47.4	Remove encrustation from pipe wall from 7:00 to 11:00
47.6	Remove encrustation from service at 10:00
50.3	Remove encrustation from pipe wall from 7:00 to 11:00
51.8	Remove encrustation from pipe wall from 5:00 to 7:00
53.5	Remove encrustation from pipe wall at 2:00
58.1	Remove encrustation from pipe wall at 9:00
58.3 to 60.3	Remove grease from pipe wall at 3:00 and 9:00
60.3	Remove stick from pipe joint
62.5	Remove encrustation from pipe wall at 9:00
65.2	Remove encrustation from pipe joint
65.3	Remove encrustation from pipe wall at 3:00
66.0	Remove encrustation from pipe joint from 9:00 to 11:00
66.7	Remove encrustation from pipe joint from 9:00 to 11:00
73.0 to 73.3	Remove grease from pipe wall at 11:00
81.4	Remove intruding service at 11:00
83.1 to 85.7	External Point Repair (To Be Done By Others)

Newman Ave W (Asset No. MA40013490) Sanitary Sewer	MH at Hoka St (E of CL) (MH40012206) to MH at Hoka St (E curb) (MH40012205)
Drawing Number	11863
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	3.7m
Maximum Sewer Depth to Invert	4.93m
Design Condition	Partially Deteriorated ovality 4%
Site Specific Repairs	
Location	Action Required
Distance From MH40012206 (m)	
0.0	Remove encrustation from pipe wall from 5:00 to 7:00
0.3	Remove encrustation from pipe wall from 2:00 to 5:00
2.7	Remove encrustation from pipe wall from 1:00 to 7:00
2.8	Remove encrustation from pipe wall from 3:00 to 6:00

Pandora Avenue E (Asset No. MA40009139) Sanitary Sewer	1st MH E of Roanoke St (MH40008192) to MH at Roanoke St (MH40010668)
Drawing Number	11864
Size / Shape	200mm Circular
Material Type	AC and Vetrified Clay
Total Length	100.3m
Maximum Sewer Depth to Invert	1.57m
Design Condition	Partially Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40008192 (m)	
13.3	Remove encrustation from pipe wall at 9:00
17.6	Remove intruding service at 3:00
25.0 to 27.6	External Point Repair (To Be Done By Others)
28.7	Remove encrustation from pipe joint from 7:00 to 5:00
29.7	Remove encrustation from pipe joint at 8:00
30.6	Remove encrustation from pipe joint at 7:00
30.8	Remove encrustaion from service at 3:00
31.2	Remove encrustation from pipe joint at 7:00
32.2	Remove encrustation from pipe wall at 5:00
33.1	Remove encrustation from pipe wall at 8:00
34.0	Remove encrustation from pipe wall from 7:00 to 9:00
36.9	Remove encrustation from pipe wall at 7:00
37.8	Remove encrustation from pipe wall at 7:00
39.4	Remove encrustation from pipe wall at 7:00
40.3	Remove encrustation from pipe wall from 7:00 to 9:00
42.1	Remove encrustation from pipe wall at 8:00
44.0	Remove encrustation from pipe wall at 7:00
46.0	Remove encrustaion from service at 3:00
46.4	Remove encrustation from pipe joint from 7:00 to 10:00
46.6	Remove intruding service at 3:00
46.6 to 47.3	Remove grease from pipe wall at 4:00 and 8:00
47.3	Remove encrustation from pipe joint at 7:00
48.3	Remove encrustation from pipe joint at 7:00
50.2	Remove encrustation from pipe joint from 5:00 to 8:00
52.1	Remove encrustation from pipe joint from 5:00 to 7:00
53.1	Remove encrustation from pipe joint at 7:00
54.0	Remove encrustation from pipe joint at 7:00
54.9	Remove intruding service
55.5	Remove encrustation from pipe joint at 7:00
56.5	Remove encrustation from pipe joint from 7:00 to 10:00
57.4	Remove encrustation from pipe joint from 5:00 to 9:00
61.4	Remove encrustaion from service at 3:00
61.8 to 61.9	Remove encrustation from pipe wall at 3:00
62.7	Remove encrustation from pipe wall from 5:00 to 5:00
63.6	Remove encrustation from pipe joint at 7:00
64.6	Remove encrustation from pipe joint from 7:00 to 9:00
65.5	Remove encrustation from pipe joint from 3:00 to 10:00
66.5	Remove encrustation from pipe joint at 7:00
67.4	Remove encrustation from pipe joint from 4:00 to 8:00
68.4	Remove encrustation from pipe joint at 4:00
69.3	Remove encrustation from pipe joint from 1:00 to 11:00
69.5	Remove encrustaion from service at 3:00
69.9	Remove encrustation from pipe joint from 1:00 to 11:00
72.0	Remove intruding service at 3:00
72.4	Remove encrustation from pipe wall at 3:00
73.0 to 73.7	Remove grease from pipe wall at 2:00
75.5	Remove encrustation from pipe joint at 7:00
77.5	Remove encrustation from pipe joint at 8:00
77.6	Remove encrustaion from service at 3:00
78.0	Remove encrustation from pipe joint from 4:00 to 7:00
78.9	Remove encrustation from pipe joint from 7:00 to 10:00
81.7	Remove encrustation from pipe joint at 7:00
82.7	Remove encrustation from pipe joint from 5:00 to 10:00
83.6	Remove encrustation from pipe joint from 1:00 to 7:00
84.5	Remove encrustation from pipe joint from 4:00 to 7:00
84.7	Remove encrustaion from service at 3:00
85.2	Remove encrustation from pipe joint from 4:00 to 8:00
86.1	Remove encrustation from pipe joint from 4:00 to 8:00
89.8	Remove encrustation from pipe joint at 4:00
90.4	Remove intruding service at 3:00
94.2 to 99.0	Remove grease from pipe wall from 9:00 to 3:00

Pandora Avenue E (Asset No. MA40009050) Sanitary Sewer	2nd MH E of Wayoata St (MH40008218) to 1st MH E of Wayoata St (MH40008219)
Drawing Number	11865
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	64.4m
Maximum Sewer Depth to Invert	3.04m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40008218 (m)	
0.3	Remove encrustation from pipe joint from 6:00 to 6:00
1.0	Remove encrustation from pipe joint from 6:00 to 9:00
3.1 to 3.7	Remove encrustation from pipe wall from 7:00 to 5:00
4.4 to 5.0	Remove encrustation from pipe wall from 7:00 to 5:00
7.9 to 8.4	Remove encrustation from pipe wall from 7:00 to 10:00
10.4 to 11.2	Remove encrustation from pipe wall from 7:00 to 5:00
12.0 to 12.4	Remove encrustation from pipe wall from 7:00 to 5:00
12.8	Remove intruding service at 9:00
12.8 to 13.0	Remove roots from pipe wall at 4:00
14.5 to 14.9	Remove encrustation from pipe wall from 8:00 to 4:00
18.0 to 18.6	Remove encrustation from pipe wall from 7:00 to 4:00
18.8	Remove encrustation from pipe joint from 7:00 to 11:00
19.1	Remove encrustation from pipe wall at 9:00
19.5 to 19.8	Remove encrustation from pipe wall at 8:00
21.9	Remove encrustation from pipe wall at 8:00
22.2 to 22.4	Remove encrustation from pipe wall at 5:00
22.7 to 23.3	Remove grease from pipe wall at 5:00
25.5 to 25.8	Remove encrustation from pipe wall at 7:00
28.8	Remove encrustation from pipe joint at 8:00
29.0	Remove intruding service at 3:00
30.6	Remove encrustation from pipe wall at 8:00
31.9	Remove encrustation from pipe wall at 3:00
34.0 to 46.4	Remove grease from pipe wall from 3:00 to 9:00
47.2 to 49.4	Remove encrustation from pipe wall from 9:00 to 3:00
53.6	Remove encrustation from pipe joint at 5:00
54.1 to 54.5	Remove encrustation from pipe wall at 7:00 and 4:00
55.3 to 56.0	Remove encrustation from pipe wall from 7:00 to 4:00
57.0 to 62.2	Remove grease from pipe wall from 9:00 to 3:00
63.5 to 64.2	Remove grease from pipe wall from 10:00 to 2:00

Park Circle (W Leg) (Asset No. MA40013879) Sanitary Sewer	1st MH N of Ravelston Ave E (MH40012535) to MH at Wabasha St (MH70050151)
Drawing Number	11866
Size / Shape	200mm Circular
Material Type	Vitrified Clay
Total Length	48.1m
Maximum Sewer Depth to Invert	4.3m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40013879 (m)	
0.0 to 2.8	Remove grease from pipe wall from 9:00 to 10:00
4.0	Remove roots from pipe joint
4.6	Remove roots from pipe joint
5.1	Remove roots from pipe joint
5.1	Remove grease from pipe wall from 9:00 to 3:00
5.8	Remove roots from pipe joint
6.4	Remove roots from pipe joint
6.9	Remove roots from pipe joint
7.5	Remove roots from pipe joint
8.3	Remove roots from pipe joint
8.3 to 9.1	remove grease from pipe wall from 9:00 to 3:00
9.1	remove roots from service at 10:00
9.7	Remove roots from pipe joint
10.1	Remove roots from pipe joint
10.7	Remove roots from pipe joint
15.0	Remove roots from pipe joint
15.0 to 15.9	Remove grease from pipe wall at 9:00 and 3:00
16.8 to 18.0	Remove grease from pipe wall at 9:00 and 3:00
16.8	Remove roots from pipe joint
17.4	Remove roots from pipe joint
18.0 to 20.1	External Point Repair (To Be Done By Others)
20.1 to 35.0	Remove grease from pipe wall at 9:00 and 3:00
41.8	Remove encrustation from pipe wall at 9:00
44.8 to 45.8	Remove grease from pipe wall
47.8	Trim PVC pipe at MH wall (To Be Done By Others)

Redonda Street (Asset No. MA40009824) Sanitary Sewer	2nd MH S of Kildare Ave E (MH40008901) to 1st MH S of Kildare Ave E (MH40008900)
Drawing Number	11867
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	103.3m
Maximum Sewer Depth to Invert	5.22m
Design Condition	Fully Deteriorated ovality 8%
Site Specific Repairs	
Location	Action Required
Distance From MH40008901 (m)	
0.5	Remove encrustation from pipe joint from 7:00 to 5:00
0.5 to 2.8	Remove grease from pipe wall from 9:00 to 3:00
6.5	Remove hanging gasket from 8:00 to 4:00
10.1 to 12.7	External Point Repair (To Be Done By Others)
18.7	Remove object from joint invert
23.6	Remove encrustation from pipe wall at 9:00
24.9	Remove encrustation from pipe joint at 5:00 and 7:00
29.5	Remove encrustation from pipe wall from 7:00 to 5:00
30.7	Remove encrustation from pipe wall from 7:00 to 5:00
42.0	Remove encrustation from pipe wall from 3:00 to 5:00
43.3	Remove hanging gasket from 12:00 to 2:00
48.2	Remove encrustation from pipe joint from 7:00 to 5:00
50.6	Remove encrustation from pipe joint from 7:00 to 5:00
65.3	Remove encrustation from pipe joint from 7:00 to 11:00
68.5	Remove encrustation from pipe wall at 5:00
72.7	Remove encrustation from pipe joint at 4:00
84.9	Remove encrustation from pipe wall at 5:00
88.5	Remove encrustation from pipe wall at 5:00
95.7	Remove intruding service at 11:00

Redonda Street (Asset No. MA40009826) Sanitary Sewer	4th MH S of Kildare Ave E (MH40008903) to 3rd MH S of Kildare Ave E (MH40008902)
Drawing Number	11868
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	96.7m
Maximum Sewer Depth to Invert	5.03m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40008903 (m)	
0.6	Remove encrustation from pipe joint from 7:00 to 5:00
18.3	Remove encrustation from pipe wall at 4:00
18.4 to 21.5	Remove encrustation from pipe wall at 7:00 and 5:00
22.1	Remove intruding service at 3:00

Redonda Street (E PL) (Asset No. MA40009002) Sanitary Sewer	MH at Pandora Ave E (MH40008182) to 1st MH N of Pandora Ave E (MH40008183)
Drawing Number	11869
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	92.2m
Maximum Sewer Depth to Invert	3.64m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40008182 (m)	
0.0	Remove encrustation from MH wall from 6:00 to 9:00
0.0	Remove encrustation from pipe joint from 12:00 to 5:00
4.2 to 26.0	Remove grease from pipe wall from 10:00 to 2:00
9.4	Remove encrustation from pipe wall at 6:00
26.1 to 64.6	Remove encrustation from pipe wall from 9:00 to 3:00
64.6 to 69.3	Remove grease from pipe wall from 10:00 to 2:00
71.0 to 74.9	Remove encrustation from pipe wall from 5:00 to 7:00
71.9	Remove encrustation from pipe joint from 6:00 to 6:00
76.5	Remove encrustation from pipe joint from 7:00 to 5:00
76.8 to 78.0	Remove grease from pipe wall from 12:00 to 4:00
82.5	Remove pipe gasket at joint from 6:00 to 9:00
82.5 to 87.8	Remove encrustation from pipe wall from 3:00 to 9:00
91.2 to 92.0	Remove encrustation from pipe wall from 7:00 to 4:00

Redonda Street (E PL) (Asset No. MA40009885) Sanitary Sewer	1st MH N of Victoria Ave E (MH40008951) to 2nd MH N of Victoria Ave E (MH40008952)
Drawing Number	11870
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	103.2m
Maximum Sewer Depth to Invert	4.85m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40008951 (m)	
0.0 to 0.6	Remove encrustation from pipe wall
0.6	Remove encrustation from pipe joint from 7:00 to 5:00
0.6 to 30.0	Remove grease from pipe wall from 9:00 to 3:00
15.5	Remove hanging gasket at 6:00
28.2	Remove encrustation from service at 9:00
30.8	Remove hanging gasket from 4:00 to 8:00
32.5	Remove hanging gasket from 9:00 to 3:00
46.3	Remove encrustation from pipe joint at 5:00
48.0 to 52.6	Remove grease from pipe wall from 9:00 to 3:00
66.0 to 103.2	Remove grease from pipe wall from 9:00 to 3:00
83.3	Remove hanging gasket from 10:00 to 3:00
84.9	Remove encrustation from pipe joint at 5:00

Regent Avenue E (Asset No. MA40009018) Sanitary Sewer	3rd MH W of Wayoata St (MH40008193) to 2nd MH W of Wayoata St (MH40008260)
Drawing Number	11871
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	84.4m
Maximum Sewer Depth to Invert	3.25m
Design Condition	Fully Deteriorated ovality 8%
Site Specific Repairs	
Location	Action Required
Distance From MH40008193 (m)	
0.0 to 6.9	External Point Repair (To Be Done By Others)
14.9	Remove intruding service at 9:00
16.2 to 17.7	External Point Repair (To Be Done By Others)
21.0	Remove encrustation from pipe wall at 5:00
22.6	Remove encrustation from pipe wall at 9:00
24.7	Remove encrustation from pipe wall at 5:00
25.8	Remove encrustation from pipe wall at 3:00
31.8	Remove intruding service at 10:00
45.9	Remove intruding service at 9:00
52.8	Remove encrustation from pipe joint at 6:00
57.0	Remove encrustation from service at 9:00
59.3	Remove encrustation from service at 9:00
59.7	Remove encrustation from pipe joint at 7:00

Regent Ave W (Asset No. MA40011755)	1st MH E of Winona St (MH40010676) to MH at Winona St (MH40010646)
Sanitary Sewer	
Drawing Number	11872
Size / Shape	200mm Circular
Material Type	Vitrified Clay
Total Length	76.1m
Maximum Sewer Depth to Invert	3.16m
Design Condition	Fully Deteriorated ovality 9%
Site Specific Repairs	
Location	Action Required
Distance From MH40010676 (m)	
4.9	Remove encrustaion from service at 3:00
5.1	Remove intruding service at 10:00
5.2	Remove intruding service at 3:00
5.5	Remove encrustaion from service at 9:00
6.0	Remove encrustation from pipe joint at 3:00
6.9	Remove encrustation from pipe joint at 4:00
7.6	Remove encrustaion from service at 9:00
7.6	small hole opposite CN at 3:00 (note)
9.0	Remove intruding service at 2:00
10.7	Remove encrustation from pipe joint from 7:00 to 5:00
11.5	Remove encrustation from pipe joint from 4:00 to 7:00
12.5	Remove encrustation from pipe joint from 3:00 to 5:00
13.5	Remove encrustation from pipe joint at 4:00
13.6	Remove encrustaion from service at 3:00
14.0	Remove encrustation from pipe joint from 7:00 to 10:00
14.2	Remove encrustaion from service at 9:00
14.7	Remove encrustation from pipe joint from 2:00 to 5:00
15.6	Remove encrustation from pipe joint from 7:00 to 11:00
17.5	Remove encrustation from pipe wall from 4:00 to 7:00
21.1	Remove encrustation from pipe joint from 4:00 to 7:00
22.3	Remove intruding service at 9:00
22.7	Remove encrustation from pipe joint at 7:00
22.9	Remove encrustaion from service at 9:00
24.3	Remove encrustation from pipe joint at 7:00
26.1	Remove encrustation from pipe joint from 3:00 to 7:00
28.0	Remove encrustation from pipe joint from 4:00 to 5:00
29.9	Remove encrustation from pipe wall from 6:00 to 8:00
30.8	Remove encrustation from pipe joint from 3:00 to 10:00
31.0	Remove encrustaion from service at 3:00
32.0	Remove encrustation from pipe joint from 4:00 to 11:00
33.0	Remove encrustation from pipe joint from 4:00 to 11:00
34.0	Remove encrustation from pipe wall at 4:00
37.6	Remove encrustation from pipe joint at 4:00
44.5	Remove encrustation from pipe joint at 4:00
46.6	Remove encrustation from pipe joint from 1:00 to 11:00
47.4	Remove encrustation from pipe joint from 3:00 to 5:00
48.0	Remove encrustation from pipe wall from 7:00 to 11:00
53.2	Remove encrustation from pipe joint at 5:00
55.1	Remove encrustation from pipe joint at 4:00 and 7:00
56.3	Remove encrustaion from service at 3:00
56.9	Remove encrustaion from service at 9:00
59.2	Remove encrustation from pipe wall at 5:00 and 8:00
65.0	Remove encrustation from pipe wall at 4:00
65.7	Remove encrustation from pipe joint from 3:00 to 11:00
65.9	Remove encrustaion from service at 9:00
66.6	Remove encrustaion from service at 3:00
69.8	Remove encrustation from pipe joint from 7:00 to 9:00
70.7	Remove encrustation from pipe joint from 7:00 to 10:00
72.7	Remove encrustation from pipe wall from 8:00 to 11:00

Rosseau Avenue E (N Leg) (Asset No. MA40009546) Sanitary Sewer	1st MH E of Leola St (MH40008660) to 2nd MH E of Leola St (MH40008661)
Drawing Number	11873
Size / Shape	200mm Circular
Material Type	Vitrified Clay
Total Length	83.5m
Maximum Sewer Depth to Invert	3.37m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40008660 (m)	
0.0 to 6.4	External Point Repair (To Be Done By Others)
7.1	remove roots from pipe joint
7.9	remove roots from pipe joint
8.7	remove encrustation from pipe joint from 3:00 to 9:00
9.2	remove encrustation from pipe joint from 3:00 to 9:00
9.5	remove encrustation from pipe joint from 3:00 to 7:00
10.2	remove roots from pipe joint
10.9	remove encrustation from pipe joint from 3:00 to 7:00
11.7	remove encrustation from pipe joint from 3:00 to 9:00
16.6	Remove roots from pipe joint at 3:00
17.2	Remove roots from pipe joint from 1:00 to 3:00
18.1	Remove roots from pipe joint from 1:00 to 3:00
18.7	Remove roots from pipe joint from 1:00 to 7:00
19.5	Remove encrustation from pipe joint from 4:00 to 7:00
20.3	Remove encrustation from pipe joint from 1:00 to 8:00
20.9	Remove intruding service at 9:00
21.1	Remove roots from pipe joint at 3:00
21.8	Remove roots from pipe joint at 3:00 and 9:00
22.6	Remove roots from pipe joint at 3:00 and 9:00
23.4	Remove roots from pipe joint at 3:00 and 9:00
23.7	Remove encrustaion from service at 9:00
24.2 to 30.4	External Point Repair (To Be Done By Others)
31.9	Remove roots from pipe joint
32.7	Remove roots from pipe joint
33.5	Remove roots from pipe joint
33.5 to 34.2	Remove grease from pipe wall at 12:00
34.1	Remove intruding service at 9:00
34.3	Remove roots from pipe joint from 2:00 to 9:00
35.1	Remove roots from pipe joint from 12:00 to t:00
35.8	Remove roots from pipe joint from 3:00 to 9:00
37.4	Remove roots from pipe joint
38.2	Remove roots from pipe joint
39.0	Remove roots from pipe joint
39.7	Remove roots from pipe joint
40.5	Remove roots from pipe joint
41.0	Remove roots from pipe joint
41.7	Remove roots from service at 9:00
41.5	Remove roots from pipe joint
41.7 to 42.0	Remove grease from pipe wall at 12:00
42.8	Remove roots from pipe joint
43.6	Remove roots from pipe joint
43.6 to 44.1	Remove grease from pipe wall at 12:00
44.3	Remove roots from pipe joint
45.5	Remove roots from service at 2:00
45.9	Remove roots from pipe joint
46.7	Remove roots from pipe joint
47.4	Remove roots from pipe joint
47.7	Remove encrustaion from service at 3:00
48.2	Remove roots from pipe joint
48.5	Remove intruding service at 3:00
49.8	Remove roots from pipe joint
50.0	Remove roots from service at 9:00
50.6	Remove roots from pipe joint
51.3	Remove roots from pipe joint
52.1	Remove roots from pipe joint
52.6	Remove intruding service at 3:00
52.9	Remove roots from pipe joint
53.6	Remove roots from pipe joint
54.4	Remove roots from pipe joint
55.2	Remove roots from pipe joint
56.0	Remove roots from pipe joint
56.2	Remove intruding service at 9:00
56.7	Remove roots from pipe joint
57.5	Remove roots from pipe joint
58.3	Remove roots from pipe joint
59.1	Remove roots from pipe joint
59.9	Remove roots from pipe joint
60.6	Remove roots from pipe joint

61.1	Remove roots from pipe joint
62.2	Remove roots from pipe joint
63.0	Remove roots from pipe joint
63.7	Remove roots from pipe joint
64.2	Remove roots from pipe joint
65.1	Remove intruding service at 9:00
65.7	Remove roots from pipe joint
66.4	Remove roots from pipe joint
68.0	Remove roots from pipe joint
68.8	Remove roots from pipe joint
69.5	Remove roots from pipe joint
70.3	Remove roots from pipe joint
71.9	Remove roots from pipe joint
72.6	Remove roots from pipe joint
73.4	Remove roots from pipe joint
74.2	Remove roots from pipe joint
75.8	Remove roots from pipe joint
77.3	Remove roots from pipe joint

Sark Crescent (W Leg) (Asset No. MA40009117) Sanitary Sewer	2nd MH S fo Victoria Ave (MH40008281) to 1st MH S of Victoria Ave (MH40008281)
Drawing Number	11874
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	114.6m
Maximum Sewer Depth to Invert	3.2m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40008271 (m)	
0.0 to 4.3	External Point Repair (To Be Done By Others)
5.1	Remove encrustation from pipe wall from 7:00 to 11:00
5.2	Remove encrustation from pipe wall from 1:00 to 5:00
6.8	Remove encrustation from pipe joint from 7:00 to 11:00
7.5	Remove encrustation from pipe joint from 7:00 to 11:00
8.0	Remove roots from pipe joint at 6:00
10.4	Remove encrustation from pipe wall from 5:00 to 10:00
13.9	Remove encrustation from pipe wall from 1:00 to 5:00
15.2	Remove encrustation from pipe wall at 8:00
15.6	Remove encrustaion from service at 10:00
16.7	Remove encrustaion from service at 2:00
18.5	Remove encrustation from pipe joint from 7:00 to 5:00
26.5	Remove encrustation from pipe joint from 7:00 to 5:00
31.6	Remove encrustaion from service at 9:00
32.9	Remove encrustaion from service at 3:00
47.7	Remove encrustaion from service at 3:00
47.7	Remove intruding service at 3:00
48.8	Remove encrustaion from service at 9:00
49.7 to 63.4	External Point Repair (To Be Done By Others)
63.7	Remove encrustaion from service at 10:00
64.8	Remove encrustaion from service at 3:00
79.7	Remove encrustaion from service at 9:00
81.0	Remove encrustaion from service at 3:00

Victoria Avenue E (Asset No. MA40009836) Sanitary Sewer	MH at Berlade Street (MH40008911) to MH at Sark Cres (MH40008717)
Drawing Number	11875
Size / Shape	200mm Circular
Material Type	Concrete
Total Length	78.0m
Maximum Sewer Depth to Invert	4.03m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40008911 (m)	
0.0 to 0.6	Remove encrustation from pipe wall
0.6	Remove encrustation from pipe joint from 4:00 to 9:00
1.5	Remove encrustation from pipe joint from 3:00 to 8:00
2.1	Remove encrustation from pipe joint from 3:00 to 8:00
3.4	Remove encrustation from pipe joint from 3:00 to 8:00
19.3	Remove encrustation from pipe joint at 5:00
21.8	Remove encrustation from pipe joint from 7:00 to 9:00
25.5	Remove encrustation from pipe joint at 8:00 and 4:00
28.0 to 30.0	External Point Repair (To Be Done By Others)
34.8	Remove encrustation from pipe joint from 5:00 to 7:00
38.7	Remove encrustation from service at 3:00
39.7	Remove encrustation from pipe joint from 4:00 to 7:00
39.7 to 39.9	Remove encrustation from pipe wall at 5:00
41.0	Remove encrustation from pipe joint at 4:00
45.9	Remove encrustation from pipe joint from 7:00 to 9:00
52.1	Remove encrustation from pipe joint from 1:00 to 4:00
54.4	Remove encrustation from pipe joint from 2:00 to 5:00
64.4	Remove encrustation from pipe joint at 4:00
65.6	Remove encrustation from pipe joint at 4:00
65.9	Remove encrustation from service at 10:00
73.8	Remove intruding service at 2:00
76.8	Remove encrustation from pipe joint from 3:00 to 7:00
77.4	Remove encrustation from pipe joint from 3:00 to 9:00
77.6	Remove encrustation from pipe wall at 7:00

Vista Avenue (Asset No. MA50013956) Sanitary Sewer	MH N.E. Cul De Sac (MH50011145) to 1st MH E of Wyoming St (MH50010124)
Drawing Number	11876
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	31.6m
Maximum Sewer Depth to Invert	3.21m
Design Condition	Fully Deteriorated ovality 2%
Site Specific Repairs	
Location	Action Required
Distance From MH50011145 (m)	
1.3	Remove encrustation from service at 3:00
1.5	Remove encrustation from service at 9:00
7.7	Remove roots from pipe joint at 9:00
8.8	Remove roots from pipe wall at 9:00
10.2	Remove roots from pipe joint at 3:00
12.8	Remove roots from pipe joint
14.3	Remove hanging gasket at 9:00
14.3	Remove roots from pipe joint at 9:00
17.3	Remove roots from pipe joint at 9:00
23.5	Remove roots from pipe joint at 9:00
26.4	Remove roots from pipe joint at 9:00
27.9	Remove roots from pipe joint at 9:00

Wabasha Street (Asset No. MA40011786) Sanitary Sewer	MH at Pandora Ave E (MH40010670) to MH at Melrose Ave E (MH40010730)
Drawing Number	11877
Size / Shape	200mm Circular
Material Type	Vitrified Clay
Total Length	96.4m
Maximum Sewer Depth to Invert	1.65m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40010670 (m)	
4.0 to 10.4	External Point Repair (To Be Done By Others)
21.4	Remove intruding service at 9:00
21.5	Remove intruding service at 3:00
25.4 to 28.2	External Point Repair (To Be Done By Others)
34.3	Remove encrustation from pipe wall at 3:00
39.9	Remove encrustation from pipe wall at 3:00
51.8 to 52.3	Remove encrustation from pipe wall from 7:00 to 3:00
52.1	Old roof Patch Repair (note)
58.6 to 58.8	Remove encrustation from pipe wall from 7:00 to 4:00
58.7	Old roof Patch Repair (note)
62.2	Remove encrustation from pipe wall at 3:00
64.9	Remove encrustation from pipe joint from 7:00 to 11:00
65.1	Remove encrustation from pipe joint from 7:00 to 5:00
65.1	Old roof Patch Repair (note)
67.8	Remove encrustation from pipe wall at 9:00 and 12:00
71.6	Remove encrustation from pipe wall at 2:00
77.3	Remove encrustation from pipe wall at 2:00
78	Remove encrustation from pipe wall at 5:00
80.9	Remove encrustation from pipe wall at 3:00

Wabasha Street (Easement Kern Park) (Asset No. MA40013967) Sanitary Sewer	MH at Kern Drive (MH40012607) to MH at Whittier Ave E (MH40012363)
Drawing Number	11878
Size / Shape	200mm Circular
Material Type	Vitrified Clay
Total Length	100.5m
Maximum Sewer Depth to Invert	4.69m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40012607 (m)	
0.0 to 52.1	Online Sewer Renewal (To Be Done By Others)
54.0	Remove encrustation from pipe joint at 3:00
65.5 to 66.5	Remove grease from pipe wall at 4:00
68.1	Remove roots from pipe joint at 9:00 and 3:00
69.0	Remove roots from pipe joint at 9:00 and 3:00
93.2	Remove encrustation from pipe joint from 8:00 to 4:00
94.5	Remove encrustation from pipe wall at 12:00
95.1	Remove encrustation from pipe wall from 8:00 to 11:00

Wayzata Street (Asset No. MA40009658) Sanitary Sewer	1st MH N of Coldstream Ave (MH40008757) to MH at Harvard Ave E (MH40008759)
Drawing Number	11879
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	87.4m
Maximum Sewer Depth to Invert	5.0m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH (m)	
0.0 to 87.4	Water levels too high to see 5:00 to 7:00
13.7	Remove encrustation from service at 9:00

Winterton Avenue (Asset No. MA70004313) Combined Sewer	1st MH W of Brazier St (MH40004943) to 2nd MH W of Brazier St (MH70001918)
Drawing Number	11880
Size / Shape	375mm Circular
Material Type	Vitrified Clay and Concrete
Total Length	103.7m
Maximum Sewer Depth to Invert	4.82m
Design Condition	Fully Deteriorated ovality 7%
Site Specific Repairs	
Location	Action Required
Distance From MH40004943 (m)	
0.0 to 3.4	Remove Grease from pipe
0.0	Remove roots from pipe joint from 10:00 to 2:00
2.6	Remove roots from service at 10:00
2.8	Remove roots from pipe joint at 12:00
3.3	Remove roots from service at 2:00
3.5	Remove roots from pipe joint from 10:00 to 12:00
4.1 to 5.4	remove roots from pipe wall at 11:00
5.9	remove roots from pipe wall at 2:00
6.5	Remove roots from pipe joint from 10:00 to 2:00
7.3	Remove roots from pipe joint from 10:00 to 2:00
10.6	Remove encrustation from pipe wall at 3:00
15.9	Remove roots from pipe joint at 3:00
19.6	Remove roots from service at 9:00
23.2 to 24.2	Remove encrustation from pipe wall from 9:00 to 5:00
24.2	Remove roots from pipe joint at 8:00
25.1	Remove roots from pipe joint from 4:00 to 8:00
25.8	Remove roots from pipe joint from 4:00 to 8:00
28.2	Remove roots from pipe joint from 4:00 to 8:00
28.5	Remove roots from service at 10:00
36.2	Remove encrustation from pipe wall at 7:00
37.5 to 38.1	Remove encrustation from pipe wall from 6:00 to 9:00
41.3	Remove roots from pipe joint from 5:00 to 10:00
43.7	Remove encrustation from pipe wall from 3:00 to 5:00
47.1	Remove roots from service at 2:00
54.5	Remove intruding service at 2:00
64.3 to 64.6	Remove encrustation from pipe wall from 3:00 to 8:00
65.6	Remove roots from service at 10:00
74.1	Remove roots from service at 10:00
74.6	Remove roots from pipe joint from 6:00 to 10:00
74.9	Remove roots from service at 2:00
75.3	Remove roots from pipe joint from 4:00 to 9:00
77.6	Remove roots from pipe joint from 3:00 to 9:00
78.4	Remove roots from service at 10:00
88.4	Remove encrustation from pipe joint from 5:00 to 7:00
101.5	Remove encrustation from pipe wall at 3:00
103.7	Remove encrustation from pipe joint from 6:00 to 9:00

Woodydell Avenue (Asset No. MA50013022) Sanitary Sewer	2nd MH W of Dakota St (MH50010466) to 3rd MH W of Dekota St (MH50010467)
Drawing Number	11881
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	88.9m
Maximum Sewer Depth to Invert	4.14m
Design Condition	Fully Deteriorated ovality 1%
Site Specific Repairs	
Location	Action Required
Distance From MH50010466 (m)	
0.0 to 0.5	Remove encrustation from pipe wall from 4:00 to 9:00
0.5	Fill void at invert of pipe prior to lining (To Be Done By Others)
1.0	Remove encrustation from pipe wall at 6:00
2.5	Remove encrustation from pipe joint at 4:00
6.1	Remove encrustaion from service at 2:00
6.9	Remove encrustation from pipe joint from 3:00 to 9:00
7.1	Remove encrustaion from service at 2:00
8.5	Remove encrustation from pipe joint from 3:00 to 8:00
8.7	Remove encrustaion from service at 10:00
12.6	Remove encrustation from pipe wall from 1:00 to 5:00
14.5	Remove encrustation from pipe wall from 7:00 to 11:00
21.3	Remove encrustaion from service at 10:00
21.8	Remove encrustaion from service at 2:00
22.6	Remove encrustaion from service at 3:00
24.2	Remove encrustaion from service at 10:00
30.0	Remove encrustation from pipe joint from 7:00 to 4:00
34.7	Remove encrustation from pipe joint at 7:00
35.4	Remove encrustaion from service at 10:00
35.7	Remove encrustation from pipe wall at 7:00
36.0	Remove encrustaion from service at 10:00
36.5	Remove encrustaion from service at 1:00
38.0	Remove encrustaion from service at 2:00
39.6	Remove encrustaion from service at 10:00
51.9	Remove encrustaion from service at 2:00
52.8	Remove encrustaion from service at 10:00
56.2	Remove encrustation from pipe joint from 1:00 to 3:00
60.8	Remove encrustation from pipe joint from 1:00 to 3:00
69.5	Remove encrustaion from service at 2:00
70.4	Remove encrustaion from service at 10:00
78.5	Remove encrustation from pipe joint from 7:00 to 5:00
88.5	Remove encrustation from pipe joint from 7:00 to 5:00
88.9	Remove encrustation from pipe wall at 5:00

Wynford Drive (Asset No. MA40010086)	MH at Ainsdale Way (MH40009127) to 1st MH S of Ainsdale Way (MH40009128)
Sanitary Sewer	
Drawing Number	11882
Size / Shape	250mm Circular
Material Type	Concrete
Total Length	110.7m
Maximum Sewer Depth to Invert	5.5m
Design Condition	Fully Deteriorated ovality 6%
Site Specific Repairs	
Location	Action Required
Distance From MH40009127 (m)	
0.3	Remove encrustation from pipe wall from 4:00 to 8:00
0.9	Remove encrustation from pipe joint from 8:00 to 3:00
1.9	Remove encrustation from pipe joint from 3:00 to 9:00
3.4	Remove encrustation from pipe joint at 2:00
8.0	Remove encrustation from pipe joint from 1:00 to 3:00
10.8 to 11.1	Remove grease from pipe wall at 3:00
11.2	Remove encrustation from pipe joint at 2:00
12.7	Remove encrustation from pipe joint at 10:00
12.9 to 16.2	Remove grease from pipe wall at 3:00
14.2	Remove encrustation from pipe joint at 11:00
17.3	Remove encrustation from pipe joint at 2:00
17.3 to 18.9	Remove grease from pipe wall at 3:00
19.1	Remove encrustation from pipe wall from 9:00 to 3:00
20.8	Remove grease from pipe wall at 3:00
22.0 to 24.9	Remove grease from pipe wall at 4:00
23.8 to 24.0	Remove encrustation from pipe wall from 7:00 to 11:00
24.9	Remove encrustation from pipe joint at 12:00
26.4	Remove encrustation from pipe joint from 7:00 to 3:00
28.6	Remove encrustation from pipe joint from 6:00 to 6:00
29.6	Remove encrustation from pipe joint from 6:00 to 12:00
31.1	Remove encrustation from pipe joint from 7:00 to 5:00
32.8	Remove encrustation from pipe joint at 12:00
34.2	Remove encrustation from pipe joint from 1:00 to 5:00
35.4	Remove grease from pipe wall at 12:00
36.5	Remove grease from pipe wall at 12:00
37.9 to 38.5	Remove grease from pipe wall at 12:00
38.6	Remove encrustation from pipe joint from 9:00 to 3:00
42.0 to 43.2	Remove grease from pipe wall at 4:00
43.2	Remove encrustation from pipe joint at 4:00
43.2 to 55.2	Remove grease from pipe wall
55.2	Remove encrustation from pipe joint at 7:00
55.5 to 56.6	Remove grease from pipe wall at 12:00
57.5 to 67.4	Remove grease from pipe wall from 11:00 to 1:00
72.1 to 73.0	Remove encrustation from pipe wall at 9:00 and 3:00
73.4	Remove grease from pipe wall at 11:00
75.2 to 75.4	Remove grease from pipe wall at 11:00
76.6	Remove encrustation from pipe joint from 1:00 to 4:00
78.2	Remove encrustation from pipe joint from 1:00 to 4:00
81.2	Remove encrustation from pipe joint at 12:00
85.8	Remove encrustation from pipe joint at 10:00
88.8	Remove encrustation from pipe joint from 9:00 to 1:00
90.3	Remove encrustation from pipe joint from 9:00 to 3:00
90.6 to 92.5	Remove grease from pipe wall at 3:00
93.5	Remove grease from pipe wall at 9:00 and 3:00
96.4 to 108.8	Remove encrustation from pipe joint from 12:00 to 3:00
108.0 to 110.7	External Point Repair (To Be Done By Others)

Yale Avenue E (Asset No. MA40013778)	
Sanitary Sewer	1st MH E of Kanata St (MH40012473) to MH at Kanata St (MH40012463)
Drawing Number	11883
Size / Shape	200mm Circular
Material Type	Vitrified Clay and Concrete
Total Length	86.0m
Maximum Sewer Depth to Invert	2.74m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH40012473 (m)	
0.3	Remove roots from pipe wall at 3:00
9.8	Remove roots from pipe wall from 3:00 to 6:00
11.4	Remove roots from pipe joint
12.2	Remove roots from pipe joint
13.1	Remove roots from pipe joint
14.0	Remove roots from pipe joint
14.7	Remove encrustation from pipe wall at 7:00
15.6	Remove roots from pipe joint
16.5	Remove roots from pipe joint
17.5	Remove roots from pipe joint
18.4	Remove roots from pipe joint
19.3	Remove roots from pipe joint
20.2	Remove roots from pipe joint
20.5 to 21.0	Remove grease from pipe wall at 12:00
21.2	Remove roots from pipe joint
22.1	Remove roots from pipe joint
22.2 to 25.5	Remove grease from pipe wall from 9:00 to 3:00
25.5	Remove roots from pipe joint
25.5 to 26.6	Remove grease from pipe wall from 9:00 to 3:00
26.6	Remove roots from pipe joint
26.7 to 27.3	Remove grease from pipe wall from 3:00 to 9:00
27.4	Remove roots from pipe joint
27.4 to 32.0	Remove grease from pipe wall from 3:00 to 9:00
28.4	Remove roots from pipe joint
29.3	Remove roots from pipe joint
30.2	Remove roots from pipe joint
31.1	Remove roots from pipe joint
32.0	Remove roots from pipe joint
33.0	Remove roots from pipe joint
33.0 to 33.9	Remove encrustation from pipe wall from 3:00 to 9:00
33.9	Remove roots from pipe joint
34.9	Remove roots from pipe joint
34.9	Remove roots from pipe joint
35.1	Remove roots from pipe joint at 9:00
35.5	Remove roots from pipe joint
35.5 to 38.2	Remove grease from pipe wall from 3:00 to 9:00
36.4	Remove roots from pipe joint
37.4	Remove roots from pipe joint
38.2	Remove roots from pipe joint
38.2 to 39.0	Remove roots from pipe wall from 3:00 to 9:00
39.2	Remove roots from pipe joint
39.8	Remove roots from pipe joint
40.8	Remove roots from pipe joint
40.8 to 42.5	Remove grease from pipe wall from 9:00 to 3:00
41.7	Remove roots from pipe joint
42.6	Remove roots from pipe joint
43.6	Remove roots from pipe joint
46.0	Remove roots from pipe joint
47.0	Remove roots from pipe joint
48.0	Remove roots from pipe joint
48.9	Remove roots from pipe joint
49.8	Remove roots from pipe joint

50.7	Remove roots from pipe joint
51.0	Remove intruding service at 3:00
51.5	Remove roots from pipe joint
52.3	Remove roots from pipe joint
53.2	Remove roots from pipe joint
54.1 to 56.7	External Point Repair (To Be Done By Others)
57.6	Remove roots from pipe joint
58.6	Remove roots from pipe joint
59.4	Remove roots from pipe joint
60.4	Remove roots from pipe joint
61.3	Remove roots from pipe joint
61.3	Remove grease from pipe wall at 7:00
62.3	Remove roots from pipe joint
63.6	Remove intruding service at 10:00
74.7	Remove roots from pipe joint
75.6	Remove roots from pipe joint
76.3	Remove roots from pipe joint
76.9	Remove roots from pipe joint
77.8	Remove encrustation from pipe joint at 3:00
79.6 to 82.6	External Point Repair (To Be Done By Others)
85.1 to 85.4	Remove encrustation from pipe wall from 12:00 to 12:00
85.1 to 85.4	Fill void at invert prior to lining (To Be Done By Others)