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Technical Memorandum

To: Sean Greig – Town of Newmarket, NH File No. 2929.08
Cc: David J. Mercier, P.E. – Underwood Engineers
From: Ross Baker, E.I.T. – Underwood Engineers
Date: September 26, 2023
Subject: **NEWMARKET SSES PHASE II – CCTV & MH INSPECTION
SUMMARY**

BACKGROUND:

In 2008, the Town retained Underwood Engineers (UE) to perform Part I of a Sewer System Evaluation Survey (SSES) which analyzed the existing sewer collection system and led to the first phase of I/I rehabilitation projects. Using the information collected in the first phase of the SSES, the Town performed manhole and sewer rehab projects throughout the collection system. Since then, the Town also completed a Wastewater Asset Management Plan (AMP) which included creating a GIS map of the sewer collection system.

In the Fall of 2018, the Newmarket WWTF experienced significant flows due to I/I which prompted the Town to pursue a second phase of the SSES. In the Spring of 2022, UE completed flow isolation of the Salmon St, Bay Road, and Packers Falls Rd sewer sub basins which were previously identified sewer sub basins with high I/I. Based on the results of the 2022 flow isolation, UE identified 12 sewer reaches and 7 manholes which had active I/I and recommended those assets be inspected further.

The Town received a \$100,000 ARPA grant which they used to complete comprehensive CCTV and manhole investigations in Part II of the SSES in Spring 2023. Using the results from these investigations, UE was able to identify pipes and manholes in need of rehabilitation or repair and provide a cost associated with each recommended repair. This technical memorandum summarizes UE's conclusions and recommendations for sewer and manhole rehabilitation for the Newmarket sewer collection system.

EVALUATION:

Sewer Mainline CCTV

Following the flow isolation testing performed in March 2022, the Town wished to inspect every non-PVC sewer pipe in the collection system, with the reasoning that the PVC sewer pipe was the newest and less likely to be in poor condition. These proposed CCTV inspections totaled approximately 55,500 LF and included the 12 reaches identified in the flow isolation

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investigation technical memorandum issued April 27, 2022. Eastern Pipe Service performed the Newmarket CCTV inspections from March 13, 2023 to May 12, 2023. By the end of the inspections, a total of 48,923 LF of sewer was inspected which was approximately 46% of the entire collection system gravity sewer, or 88% of the non-PVC gravity sewer identified for inspection. A map showing the overview of the Newmarket gravity sewer by material can be found in **Appendix A**.

The reason for the shortfall of 6,577 LF of sewer not inspected was due to inaccuracies with the Asset Management GIS files, pipes debris or intruding service taps blocking the camera, or pipe sags with high water levels causing the inspection to be stopped short. There were also 83 sewer reaches out of the total 302 reaches inspected which were identified to be PVC, even though the Town’s original intention was to inspect all non-PVC pipes in the collection system. The reason these PVC reaches were inspected was due to inaccuracies with the Asset Management GIS files either showing the pipes as a different material than PVC, or the pipes were shown as “unknown” material which ended up being PVC when CCTV inspected.

The CCTV inspections noted defects such as active I/I leakage, signs of previous I/I such as stains or mineral deposits, and suspected I/I from sewer service laterals. Each defect was assigned a PACP grade depending on the severity of the defect with grade 1 being a very minor issue and grade 5 being a critical issue.

CCTV Inspection Findings

A summary table of the CCTV inspection findings including defects for each sewer pipe reach is attached in **Appendix B**. A total of 64 gpm (92,160 gpd) of I/I was observed during the CCTV investigations across 31 gravity sewer reaches summarized in **Table 1** below.

Table 1 – Estimated I/I Summary by Pipe Reach

ID	Location	From MH	To MH	Estimated I/I (gpm)
8	River Bend Rd	02-029	02-014	1
23	New Rd	05-248	05-247	1
24	New Rd	05-247	05-246	2
27	New Rd	05-245	05-244	3
41	Salmon St	03-004	03-003	10
44	Salmon St	03-003	03-002	0.2
56	Lamprey River Park	04-040	04-039	1.5
60	Lamprey River Park	04-039	04-039A	0.1
61	Lamprey River Park	04-039A	04-033A	0.1
65	Pulaski Dr	04-022	04-021	0.1
66	Dame Rd	04-022b	04-010	0.5
68	Dame Rd	04-011	04-010	2.2

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70	Dame Rd	04-023b	04-023	1
72	Lamprey St	04-009	04-008	21
73	Lamprey St	04-008	04-007	2.5
74	Lamprey St	04-007	04-006	2
122	Water St	05-276	05-275	1
130	Prescott St	05-258	05-259	1
138	South St	05-269	05-268	1
145	South St	05-285	05-284	0.3
148	Elm St	02-008	02-007	1
155	New Rd	05-239a	05-239	1
157	New Rd	05-238b	05-238a	1
158	New Rd	05-238a	05-238	1
170	Packers Falls Rd	01-018	01-017	1
173	Packers Falls Rd	01-016	01-015	2
199	Grant Rd	05-034	05-033a	1
251	Rt 108	05-161	05-159	2
257	Chapel St	05-280	05-279	1
278	Young Ln	05-242	05-241	1
291	Church St	05-278	05-277	0.3
Total				63.8

Key observations from the CCTV investigations include the following:

- The 12” PVC sewer pipe on Lamprey St between MH 04-009 and MH 04-008 had two (2) infiltration gushers and one (1) infiltration runner which contributed 33% of the total observed mainline I/I.
- The 8” AC sewer pipe on Salmon St between MH 03-004 and MH 03-005 had a severe infiltration gusher which contributed 16% of the total observed mainline I/I.
- Twenty (20) sewer pipes had grease issues with the heaviest deposits located on an 8” AC pipe on Salmon St between MH 03-002 and MH 03-001, an 8” AC pipe on Piscassic St between MH 003-008 and MH 003-001, and an 8” AC pipe on Route 108 between MH 05-164 and MH 05-163.
- Six Hundred Seventy-Four (674) mainline defects were observed throughout all the 302 sewer reaches inspected, with some severe defects consisting of broken pipes, pipe sags greater than 25%, fractures, cracks, corrosion damage, and obstructions.
- Six (6) sewer services exhibited active I/I during the CCTV investigations with an 8” VC pipe on Dame Rd between MH 04-011 and MH 04-010 having three (3) active I/I defects at the lateral connections.
- Seventy-Nine (79) service tap defects were observed with the most severe defects being intruding taps.

Manhole Inspections

Eighty Six (86) sewer manholes were identified in need of inspection based on the condition scores from the Asset Management Plan and included the seven (7) manholes identified to have

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active I/I in the flow isolation investigations summarized in the previous technical memorandum issued April 27, 2022. The manholes identified in need of inspection were shown as red on the overview map (**Appendix A**).

Eastern Pipe Service completed 60 manhole inspections from March 13, 2023 to May 10, 2023. The shortfall of 26 manholes was due to a number of reasons such as the manhole being paved over/inaccessible, the manhole was buried, or the manhole location couldn't be found. The manholes were visually inspected from the surface and pictures were taken of the inside of each manhole. Manhole components such as the frame, corbel, steps, walls, floor, and inverts were evaluated and given a MACP condition score of 1 to 5 with 1 being good condition and 5 being extremely poor condition and at risk of failure.

Manhole Inspection Findings

A summary table of the manhole inspection findings including defects for each manhole is attached in **Appendix C**. A total of 8.6 gpm (12,400 gpd) of I/I was observed during the manhole inspections which is summarized in **Table 2** below.

Table 2 – Estimated I/I Summary by Manhole

ID	Location	MH Number	Estimated I/I (gpm)
17	Lamprey St	04-007	2
35	Pine St	05-266	0.5
59	Rt 108	05-161	1.1
-	New Rd	05-245	5
Total			8.6

Key observations from the manhole inspections include the following:

- Four (4) manholes exhibited active I/I. MH 05-245 had several active large leaks and was not even listed as a manhole to be inspected, but the leaks were observed with the inspection crew when camera inspecting in that manhole.
- Twelve (12) manholes had severe structural defects such as cracks in the walls, missing bricks or mortar, offset joints, broken benches, exposed aggregate, or roots.

CONCLUSIONS:

Most of the observed mainline defects did not rate high enough under PACP coding to trigger immediate action, although about one third of the total sewer pipe reaches inspected had defects serious enough to warrant immediate action such as the mainline from MH 05-230 – MH 05-229 on Great Hill Dr, MH 02-029 – MH 02-014 on River Bend Rd, and MH 05-248 – MH 05-247 on New Rd, to name a few. Out of the 302 sewer pipe reaches inspected, 143 had a score of 3, 4, or 5. Out of those reaches, 93 had a score of 4 or 5 indicating they should be addressed first. It should be noted however that even small defects will continue to deteriorate over time and

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infiltration migration can occur when only limited rehabilitation is performed in an area. This same infiltration migration phenomenon can also occur when only mainline defects are repaired and lateral defects remain. For these reasons, a comprehensive rehabilitation approach is recommended for the SSES Phase II work.

This second phase of the SSES did find many defects such as cracks, roots, separated joints, grease deposits, etc. with some pipes exhibiting defects along their entire length. In total, the investigations measured approximately 92,160 gpd of mainline I/I, and 12,400 gpd of manhole I/I contributed by the areas investigated. It should be kept in mind that these flows are snapshots at the time the measurement was made and are likely significantly higher during periods of peak infiltration. The areas of most concern are those with defect condition scores of 4 or 5. The sewer reaches in critical condition can be seen in below in **Table 3** and the manholes in critical condition can be seen below in **Table 4**.

Table 3 – Sewer Reaches in Critical Condition

ID	Location	From MH	To MH	Pipe Size (in)	Pipe Material	Pipe Length (LF)	I/I Flow (gpm)	Condition Score	Repair Costs
1	Great Hill Dr	05-230	05-229	8	AC	230.1	0	5	\$2,500
8	River Bend Rd	02-029	02-014	8	AC	212.6	1	4	\$2,000
23	New Rd	05-248	05-247	8	AC	121.5	1	4	\$2,000
24	New Rd	05-247	05-246	8	AC	224.7	2	4	\$22,470
25	New Rd	05-246	05-245a	8	AC	142.9	0	4	\$2,000
26	New Rd	05-245a	05-245	8	AC	151.4	0	4	\$2,000
27	New Rd	05-245	05-244	8	AC	249.2	3	4	\$2,500
32	Maplecrest St	05-102	05-101	8	VCP	239.6	0	5	\$23,960
33	Maplecrest St	05-103	05-102	8	VCP	108.5	0	4	\$11,350
34	Maplecrest St	05-101	05-096	8	VCP	155.8	0	5	\$15,580
35	Maplecrest St	05-097	05-096	8	PVC	157.0	0	4	\$15,700
38	Maplecrest St	05-100	05-099	8	VCP	232.0	0	5	\$23,200
39	Maplecrest St	05-096	05-095	8	VCP	254.5	0	4	\$25,450
41	Salmon St	03-004	03-003	8	AC	250.7	10	5	\$2,000
44	Salmon St	03-003	03-002	8	AC	248.7	0.2	4	\$24,870
45	Salmon St	03-002	03-001	8	AC	215.3	0	4	\$500
55	Piscassic St	03-008	03-001	8	AC	90.8	0	4	\$500
56	Lamprey River Park	04-040	04-039	8	AC	266.6	1.5	4	\$26,660
59	Lamprey River Park	04-043	04-039B	8	AC	4.9	0	5	\$490
60	Lamprey River Park	04-039	04-039A	8	AC	113.3	0.1	5	\$2,000
61	Lamprey River Park	04-039A	04-033A	8	AC	203.3	0.1	4	\$20,330
62	Lamprey River Park	04-044	04-043	6	PVC	15.2	0	5	\$1,520
63	Lamprey River Park	04-045	04-044	6	PVC	247.0	0	5	\$24,700
65	Pulaski Dr	04-022	04-021	8	AC	101.1	0.1	5	\$10,100
68	Dame Rd	04-011	04-010	8	VCP	302.5	2.2	4	\$35,250



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69	Dame Rd	04-010	04-009	8	VCP	40.4	0	5	\$18,000
70	Dame Rd	04-023b	04-023	6	AC	144.0	1	4	\$16,900
71	Dame Rd	04-023	04-009	6	VCP	162.6	0	5	\$34,260
72	Lamprey St	04-009	04-008	12	PVC	301.9	21	5	\$32,190
73	Lamprey St	04-008	04-007	12	PVC	246.9	2.5	5	\$26,690
74	Lamprey St	04-007	04-006	12	PVC	287.5	2	4	\$30,750
77	Boardman Ave	04-024	04-007	6	PVC	225.8	0	5	\$20,000
83	Ham St	04-027	04-026	6	VCP	60.6	0	5	\$6,060
84	Ham St	04-026	04-004	6	CAS	87.5	0	4	\$8,750
97	Maple St	05-137	05-136	8	VCP	399.7	0	4	\$39,970
100	Railroad St	05-132.1	05-132	6	PVC	96.5	0	4	\$9,650
116	Penstock Way	05-271A	05-270	12	PVC	176.5	0	4	\$8,500
117	Bay Rd	04-033b	04-033A	8	PVC	1.1	0	4	\$550
118	Prescott St	05-261	05-260	8	VCP	69.1	0	4	\$7,410
119	Prescott St	05-260	05-258	8	VCP	181.3	0	4	\$18,130
120	Prescott St	05-260	05-258	8	VCP	158.2	0	4	\$15,820
121	Creighton St	05-275	05-005	10	PVC	247.5	0	5	\$24,750
122	Water St	05-276	05-275	10	VCP	46.4	1	5	\$4,640
126	Mt Pleasant	05-250	05-251	6	VCP	245.8	0	4	\$4,270
130	Prescott St	05-258	05-259	10	PVC	96.1	1	4	\$9,610
132	Pine St	05-267	05-266	6	AC	3.3	0	4	\$330
134	Pine St	05-265	05-264	6	AC	165.8	0	5	\$16,580
135	Pine St	05-267	05-266	6	AC	3.3	0	5	\$6,000
136	South St	05-268	05-264	8	AC	68.6	0	4	\$14,360
137	South St	05-269	05-268	6	VCP	17.3	0	5	\$9,230
138	South St	05-269	05-268	6	VCP	30.7	1	4	\$17,000
139	South St	05-268	05-264	8	VCP	14.1	0	5	\$5,000
140	South St	05-264	05-263	8	VCP	245.0	0	5	\$32,500
141	St Marys Church	05-263	05-262	8	VCP	9.2	0	4	\$1,420
142	St Marys Church	05-263	05-262	8	VCP	5.8	0	4	\$1,080
143	St Marys Church	05-262	05-008	8	VCP	152.5	0	4	\$20,750
148	Elm St	02-008	02-007	8	AC	193.4	1	4	\$7,500
155	New Rd	05-239a	05-239	8	AC	152.4	1	4	\$2,000
157	New Rd	05-238b	05-238a	8	AC	120.4	1	4	\$10,500
158	New Rd	05-238a	05-238	8	AC	130.9	1	4	\$2,500
159	Central St	05-284	05-283	8	VCP	19.5	0	4	\$6,950
160	Central St	05-284	05-283	8	VCP	94.7	0	4	\$11,000
161	Central St	05-283	05-282	8	VCP	76.3	0	4	\$11,500
162	Central St	05-283	05-282	8	VCP	67.8	0	4	\$3,000
164	Elm St	02-046	02-089	8	AC	202.5	0	4	\$8,500
170	Packers Falls Rd	01-018	01-017	8	AC	254.9	1	5	\$4,500
173	Packers Falls Rd	01-016	01-015	8	AC	178.5	2	4	\$18,350
177	Central St	05-282	05-281	10	VCP	57.2	0	4	\$7,000
182	Packers Falls Rd	02-042	02-041	8	AC	148.2	0	4	\$18,500
189	Packers Falls Rd	02-012	02-011	8	DIP	183.9	0	4	\$4,500



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199	Grant Rd	05-034	05-033a	8	AC	247.6	1	4	\$2,500
243	Rt 108	05-170	05-169	8	AC	133.5	0	4	\$15,350
245	Rt 108	05-168	05-167	8	AC	228.7	0	4	\$22,500
249	Rt 108	05-164	05-163	8	AC	23.0	0	5	\$2,800
251	Rt 108	05-161	05-159	8	VCP	125.9	2	4	\$20,000
256	Chapel St	05-280a	05-280	6	PVC	195.0	0	4	\$4,000
257	Chapel St	05-280	05-279	6	VCP	31.5	1	5	\$6,150
278	Young Ln	05-242	05-241	8	AC	233.0	1	5	\$23,300
279	Rt 152	05-108	05-107	6	VCP	184.0	0	5	\$21,400
280	Rt 152	05-108	05-107	6	VCP	184.0	0	4	\$18,900
281	Rt 152	05-107	05-106	6	VCP	250.0	0	5	\$30,500
282	Rt 152	05-107	05-106	6	VCP	250.0	0	5	\$30,000
284	Rt 152	05-105	05-104	8	AC	258.2	0	4	\$25,820
285	Rt 152	05-104	05-025	8	AC	33.3	0	4	\$3,330
286	Pond St	05-094	05-029	8	AC	276.7	0	4	\$5,000
288	Church St	05-278a	05-277a	6	VCP	253.0	0	5	\$30,300
289	Church St	05-277a	05-278	6	VCP	60.4	0	5	\$8,540
290	Church St	05-277a	05-278	6	VCP	60.4	0	5	\$11,040
291	Church St	05-278	05-277	6	VCP	127.8	0.3	5	\$12,780
292	Elm St	05-304	05-303a	8	DIP	159.5	0	5	\$16,450
294	Elm St	05-302	05-301	12	AC	87.0	0	5	\$13,700
297	Elm St	05-301	05-295	12	AC	245.0	0	5	\$37,000
302	Rt 108	04-051	04-050	8	AC	61.5	0	5	\$6,150
Total						14,199.7	63		\$1,244,590

Table 4 – Manholes in Critical Condition

ID	Location	MH Number	Condition Score	Cost
1	Maplecrest St	05-097	5	\$500
3	Maplecrest St	05-099	5	\$500
5	Maplecrest St	05-103	5	\$5,500
6	Maplecrest St	05-102	4	\$5,500
16	Lamprey River Park	04-044	5	\$500
17	Lamprey St	04-007	4	\$6,500
30	Tasker Ln	05-254	4	\$5,000
48	Gerry Ave	05-010a	4	\$5,500
56	Spring St	05-296	4	\$5,000
57	Elm St	05-295	5	\$5,500
59	Rt 108	05-161	4	\$6,000
-	New Rd	05-245	5	\$3,000
Total				\$49,000

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RECOMMENDATIONS:

Budgetary costs for the recommended sewer and manhole rehabilitation for each area inspected is provided in **Appendix D**. The estimated total construction costs for rehabilitation work associated with pipes and manholes with condition scores of 3 – 5 vs condition scores of 4 – 5 are shown in **Table 5** below.

Table 5 – Total Rehabilitation Costs

Project Type	Construction Cost	Engineering Cost	Contingency (10%)	Total Construction Cost
Sewer Pipe & MH Rehab (Score 3 – 5)	\$2,053,152	\$100,000	\$205,315	\$2,358,467
Sewer Pipe & MH (Score 4 – 5)	\$1,293,590	\$100,000	\$129,359	\$1,522,949

UE recommends the Town first proceed with the \$1,512,000 of rehabilitation projects for pipes and manholes with a condition score of 4 or 5 as they are most critical and in need of immediate repair. After those areas with a score of 4 or 5 are repaired, UE recommends that any remaining funds be spent to rehabilitate the rest of the sewer mainline and manhole defects with a score of 3. These could be bid as additive alternates. All identified defects are worth addressing to maintain a proper functioning, tight, and structurally sound collection system which will be more cost effective to operate and maintain.

NEXT STEPS:

Newmarket has been proactive and pre-applied for a NHDES CWSRF loan in June 2023 to perform I/I rehabilitation work. In August 2023, DES ranked the pre-application at 5 out of 87 pre-apps, and offered Newmarket a \$1.75M loan with 35% principal forgiveness (\$612,500). Underwood has provided the Town with a suggested warrant article to vote to bond this money in March 2024. Once a positive bond vote has been obtained, the Town should submit a full CWSRF application and retain an engineer to prepare bid documents for the I/I rehabilitation work outlined in **Appendix D** of this memo.

In an effort to be proactive in the preparation of bid documents for the I/I rehab construction project, the Town expressed interest in outlining a project schedule for the year 2024. UE prepared the following preliminary project schedule below based on the Town’s bond vote and execution of the CWSRF loan agreement. It should be noted that although the CWSRF funding will not be available until August 2024, the Town can still spend local funds throughout the year and submit a disbursement request for any funds spent once the loan agreement is executed, as long as all CWSRF rules are followed.



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Preliminary Schedule:

Bond Vote Approval	March 2024
CWSRF Full Application Submission	April 2024
Environmental Review Submission for Approval	April 2024
Meeting with Town to Finalize Project Approach	June 2024
CWSRF Loan Agreement Signed by Town	July 2024
Design Kickoff Meeting with Town	July 2024
Governor and Council Approval	August 2024
Environmental Review Approval	September 2024
30% Preliminary Design Submittal to Town & DES	September 2024
90% Design Submittal to Town & DES	November 2024
100% Design Submittal to Town & DES	December 2024
Bid Advertisement	January 2025
Construction Contract Award	March 2025

APPENDIX A

NOTES
1. ALL NON PVC PIPE TO BE CCTV INSPECTED TOTALING APPROX.
55,500 LF OF SEWER.
2. ALL MANHOLES SHOWN AS RED TO BE INSPECTED

Legend

Force Main Sewer

- Unknown
- AC
- DI
- HDPE
- PVC

Gravity Main Sewer

- Unknown
- Clay
- AC
- BCP
- CP
- PC
- PVC



APPENDIX B

APPENDIX B
Town of Newmarket
CCTV Summary of Observations
SES Phase II Project May 2023

ID	Sub-Route	Segment	General Route Information				CCTV Information				Location							Notes																				
			Direction	From Mile	To Mile	Mileage Length	Net Lane	Plan	Profile	Total Length	View	Category	Factor	Top	Services	Signage	Other	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned								
282	Rt 103	E	08-107	08-108	1	0.0	VCP	107.0	1																													
283	Rt 103	E	08-108	08-109	1	0.0	VCP	108.0	1																													
284	Rt 103	E	08-109	08-110	1	0.0	VCP	109.0	1																													
285	Rt 103	E	08-110	08-111	1	0.0	VCP	110.0	1																													
286	Rt 103	E	08-111	08-112	1	0.0	VCP	111.0	1																													
287	Rt 103	E	08-112	08-113	1	0.0	VCP	112.0	1																													
288	Rt 103	E	08-113	08-114	1	0.0	VCP	113.0	1																													
289	Rt 103	E	08-114	08-115	1	0.0	VCP	114.0	1																													
290	Rt 103	E	08-115	08-116	1	0.0	VCP	115.0	1																													
291	Rt 103	E	08-116	08-117	1	0.0	VCP	116.0	1																													
292	Rt 103	E	08-117	08-118	1	0.0	VCP	117.0	1																													
293	Rt 103	E	08-118	08-119	1	0.0	VCP	118.0	1																													
294	Rt 103	E	08-119	08-120	1	0.0	VCP	119.0	1																													
295	Rt 103	E	08-120	08-121	1	0.0	VCP	120.0	1																													
296	Rt 103	E	08-121	08-122	1	0.0	VCP	121.0	1																													
297	Rt 103	E	08-122	08-123	1	0.0	VCP	122.0	1																													
298	Rt 103	E	08-123	08-124	1	0.0	VCP	123.0	1																													
299	Rt 103	E	08-124	08-125	1	0.0	VCP	124.0	1																													
300	Rt 103	E	08-125	08-126	1	0.0	VCP	125.0	1																													
301	Rt 103	E	08-126	08-127	1	0.0	VCP	126.0	1																													
302	Rt 103	E	08-127	08-128	1	0.0	VCP	127.0	1																													
303	Rt 103	E	08-128	08-129	1	0.0	VCP	128.0	1																													
304	Rt 103	E	08-129	08-130	1	0.0	VCP	129.0	1																													
305	Rt 103	E	08-130	08-131	1	0.0	VCP	130.0	1																													
TOTAL			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Information Disclosed:
 Police
 Fire
 Bylaw
 Municipal
 Waste
 Public Works

APPENDIX C

APPENDIX D

Appendix D
Town of Newmarket
SSES Phase II Project May 2023

Table 6 - Sewer Reaches in Critical Condition (Scores of 4 or 5)

ID	Location	Insp Direction	From MH	To MH	Pipe Size (in)	Pipe Material	Pipe Length (LF)	Mainline Flow (gpm)	Condition Score	Mainline Repair Costs
1	Great Hill Dr	D	05-230	05-229	8	AC	230.1	0	5	\$2,500
8	River Bend Rd	D	02-029	02-014	8	AC	212.6	1	4	\$2,000
23	New Rd	D	05-248	05-247	8	AC	121.5	1	4	\$2,000
24	New Rd	D	05-247	05-246	8	AC	224.7	2	4	\$22,470
25	New Rd	D	05-246	05-245a	8	AC	142.9	0	4	\$2,000
26	New Rd	D	05-245a	05-245	8	AC	151.4	0	4	\$2,000
27	New Rd	D	05-245	05-244	8	AC	249.2	3	4	\$2,500
32	Maplecrest St	U	05-102	05-101	8	VCP	239.6	0	5	\$23,960
33	Maplecrest St	U	05-103	05-102	8	VCP	108.5	0	4	\$11,350
34	Maplecrest St	D	05-101	05-096	8	VCP	155.8	0	5	\$15,580
35	Maplecrest St	U	05-097	05-096	8	PVC	157.0	0	4	\$15,700
38	Maplecrest St	U	05-100	05-099	8	VCP	232.0	0	5	\$23,200
39	Maplecrest St	D	05-096	05-095	8	VCP	254.5	0	4	\$25,450
41	Salmon St	D	03-004	03-003	8	AC	250.7	10	5	\$2,000
44	Salmon St	D	03-003	03-002	8	AC	248.7	0.2	4	\$24,870
45	Salmon St	D	03-002	03-001	8	AC	215.3	0	4	\$500
55	Piscassic St	D	03-008	03-001	8	AC	90.8	0	4	\$500
56	Lamprey River Park	U	04-040	04-039	8	AC	266.6	1.5	4	\$26,660
59	Lamprey River Park	U	04-043	04-039B	8	AC	4.9	0	5	\$490
60	Lamprey River Park	D	04-039	04-039A	8	AC	113.3	0.1	5	\$2,000
61	Lamprey River Park	D	04-039A	04-033A	8	AC	203.3	0.1	4	\$20,330
62	Lamprey River Park	D	04-044	04-043	6	PVC	15.2	0	5	\$1,520
63	Lamprey River Park	U	04-045	04-044	6	PVC	247.0	0	5	\$24,700
65	Pulaski Dr	U	04-022	04-021	8	AC	101.1	0.1	5	\$10,100
68	Dame Rd	U	04-011	04-010	8	VCP	302.5	2.2	4	\$35,250
69	Dame Rd	D	04-010	04-009	8	VCP	40.4	0	5	\$18,000
70	Dame Rd	D	04-023b	04-023	6	AC	144.0	1	4	\$16,900
71	Dame Rd	D	04-023	04-009	6	VCP	162.6	0	5	\$34,260
72	Lamprey St	D	04-009	04-008	12	PVC	301.9	21	5	\$32,190
73	Lamprey St	D	04-008	04-007	12	PVC	246.9	2.5	5	\$26,690
74	Lamprey St	D	04-007	04-006	12	PVC	287.5	2	4	\$30,750
77	Boardman Ave	D	04-024	04-007	6	PVC	225.8	0	5	\$20,000
83	Ham St	U	04-027	04-026	6	VCP	60.6	0	5	\$6,060
84	Ham St	D	04-026	04-004	6	CAS	87.5	0	4	\$8,750
97	Maple St	U	05-137	05-136	8	VCP	399.7	0	4	\$39,970
100	Railroad St	D	05-132.1	05-132	6	PVC	96.5	0	4	\$9,650
116	Penstock Way	D	05-271A	05-270	12	PVC	176.5	0	4	\$8,500
117	Bay Rd	U	04-033b	04-033A	8	PVC	1.1	0	4	\$550
118	Prescott St	D	05-261	05-260	8	VCP	69.1	0	4	\$7,410
119	Prescott St	D	05-260	05-258	8	VCP	181.3	0	4	\$18,130
120	Prescott St	U	05-260	05-258	8	VCP	158.2	0	4	\$15,820
121	Creighton St	U	05-275	05-005	10	PVC	247.5	0	5	\$24,750
122	Water St	U	05-276	05-275	10	VCP	46.4	1	5	\$4,640
126	Mt Pleasant	D	05-250	05-251	6	VCP	245.8	0	4	\$4,270
130	Prescott St	D	05-258	05-259	10	PVC	96.1	1	4	\$9,610
132	Pine St	U	05-267	05-266	6	AC	3.3	0	4	\$330
134	Pine St	D	05-265	05-264	6	AC	165.8	0	5	\$16,580
135	Pine St	D	05-267	05-266	6	AC	3.3	0	5	\$6,000
136	South St	D	05-268	05-264	8	AC	68.6	0	4	\$14,360
137	South St	D	05-269	05-268	6	VCP	17.3	0	5	\$9,230
138	South St	U	05-269	05-268	6	VCP	30.7	1	4	\$17,000
139	South St	U	05-268	05-264	8	VCP	14.1	0	5	\$5,000
140	South St	D	05-264	05-263	8	VCP	245.0	0	5	\$32,500
141	St Marys Church	D	05-263	05-262	8	VCP	9.2	0	4	\$1,420
142	St Marys Church	U	05-263	05-262	8	VCP	5.8	0	4	\$1,080
143	St Marys Church	D	05-262	05-008	8	VCP	152.5	0	4	\$20,750
148	Elm St	D	02-008	02-007	8	AC	193.4	1	4	\$7,500
155	New Rd	D	05-239a	05-239	8	AC	152.4	1	4	\$2,000
157	New Rd	D	05-238b	05-238a	8	AC	120.4	1	4	\$10,500
158	New Rd	D	05-238a	05-238	8	AC	130.9	1	4	\$2,500
159	Central St	D	05-284	05-283	8	VCP	19.5	0	4	\$6,950
160	Central St	U	05-284	05-283	8	VCP	94.7	0	4	\$11,000
161	Central St	D	05-283	05-282	8	VCP	76.3	0	4	\$11,500
162	Central St	U	05-283	05-282	8	VCP	67.8	0	4	\$3,000
164	Elm St	U	02-046	02-089	8	AC	202.5	0	4	\$8,500

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170	Packers Falls Rd	U	01-018	01-017	8	AC	254.9	1	5	\$4,500
173	Packers Falls Rd	D	01-016	01-015	8	AC	178.5	2	4	\$18,350
177	Central St	D	05-282	05-281	10	VCP	57.2	0	4	\$7,000
182	Packers Falls Rd	D	02-042	02-041	8	AC	148.2	0	4	\$18,500
189	Packers Falls Rd	D	02-012	02-011	8	DIP	183.9	0	4	\$4,500
199	Grant Rd	D	05-034	05-033a	8	AC	247.6	1	4	\$2,500
243	Rt 108	D	05-170	05-169	8	AC	133.5	0	4	\$15,350
245	Rt 108	D	05-168	05-167	8	AC	228.7	0	4	\$22,500
249	Rt 108	D	05-164	05-163	8	AC	23.0	0	5	\$2,800
251	Rt 108	D	05-161	05-159	8	VCP	125.9	2	4	\$20,000
256	Chapel St	D	05-280a	05-280	6	PVC	195.0	0	4	\$4,000
257	Chapel St	D	05-280	05-279	6	VCP	31.5	1	5	\$6,150
278	Young Ln	D	05-242	05-241	8	AC	233.0	1	5	\$23,300
279	Rt 152	D	05-108	05-107	6	VCP	184.0	0	5	\$21,400
280	Rt 152	U	05-108	05-107	6	VCP	184.0	0	4	\$18,900
281	Rt 152	D	05-107	05-106	6	VCP	250.0	0	5	\$30,500
282	Rt 152	U	05-107	05-106	6	VCP	250.0	0	5	\$30,000
284	Rt 152	U	05-105	05-104	8	AC	258.2	0	4	\$25,820
285	Rt 152	D	05-104	05-025	8	AC	33.3	0	4	\$3,330
286	Pond St	U	05-094	05-029	8	AC	276.7	0	4	\$5,000
288	Church St	U	05-278a	05-277a	6	VCP	253.0	0	5	\$30,300
289	Church St	D	05-277a	05-278	6	VCP	60.4	0	5	\$8,540
290	Church St	U	05-277a	05-278	6	VCP	60.4	0	5	\$11,040
291	Church St	D	05-278	05-277	6	VCP	127.8	0.3	5	\$12,780
292	Elm St	D	05-304	05-303a	8	DIP	159.5	0	5	\$16,450
294	Elm St	D	05-302	05-301	12	AC	87.0	0	5	\$13,700
297	Elm St	U	05-301	05-295	12	AC	245.0	0	5	\$37,000
302	Rt 108	D	04-051	04-050	8	AC	61.5	0	5	\$6,150
Total							14119.7	63.0		\$1,244,590

Table 7 - Sewer Manholes in Critical Condition (Scores of 4 or 5)

ID	Location	MH Number	Condition Score	Cost
1	Maplecrest St	05-097	5	\$500
3	Maplecrest St	05-099	5	\$500
5	Maplecrest St	05-103	5	\$5,500
6	Maplecrest St	05-102	4	\$5,500
16	Lamprey River Park	04-044	5	\$500
17	Lamprey St	04-007	4	\$6,500
30	Tasker Ln	05-254	4	\$5,000
48	Gerry Ave	05-010a	4	\$5,500
56	Spring St	05-296	4	\$5,000
57	Elm St	05-295	5	\$5,500
59	Rt 108	05-161	4	\$6,000
-	New Rd	05-245	5	\$3,000
Subtotal =				\$49,000

Pipe & MH Subtotal = \$1,293,590
Engineering = \$100,000
Contingency (10%) = \$129,359
GRAND TOTAL = \$1,522,949

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Table 8 - Sewer Reaches in Critical Condition (Scores of 3, 4, or 5)

ID	Location	Insp Direction	From MH	To MH	Pipe Size (in)	Pipe Material	Pipe Length (LF)	Mainline Flow (gpm)	Condition Score	Mainline Repair Costs
1	Great Hill Dr	D	05-230	05-229	8	AC	230.1	0	5	\$2,500
8	River Bend Rd	D	02-029	02-014	8	AC	212.6	1	4	\$2,000
23	New Rd	D	05-248	05-247	8	AC	121.5	1	4	\$2,000
24	New Rd	D	05-247	05-246	8	AC	224.7	2	4	\$22,470
25	New Rd	D	05-246	05-245a	8	AC	142.9	0	4	\$2,000
26	New Rd	D	05-245a	05-245	8	AC	151.4	0	4	\$2,000
27	New Rd	D	05-245	05-244	8	AC	249.2	3	4	\$2,500
32	Maplecrest St	U	05-102	05-101	8	VCP	239.6	0	5	\$23,960
33	Maplecrest St	U	05-103	05-102	8	VCP	108.5	0	4	\$11,350
34	Maplecrest St	D	05-101	05-096	8	VCP	155.8	0	5	\$15,580
35	Maplecrest St	U	05-097	05-096	8	PVC	157.0	0	4	\$15,700
37	Maplecrest St	U	05-099	05-098	8	VCP	142.8	0	3	\$14,280
38	Maplecrest St	U	05-100	05-099	8	VCP	232.0	0	5	\$23,200
39	Maplecrest St	D	05-096	05-095	8	VCP	254.5	0	4	\$25,450
41	Salmon St	D	03-004	03-003	8	AC	250.7	10	5	\$2,000
44	Salmon St	D	03-003	03-002	8	AC	248.7	0.2	4	\$24,870
45	Salmon St	D	03-002	03-001	8	AC	215.3	0	4	\$500
55	Piscassic St	D	03-008	03-001	8	AC	90.8	0	4	\$500
56	Lamprey River Park	U	04-040	04-039	8	AC	266.6	1.5	4	\$26,660
57	Lamprey River Park	U	04-041	04-040	8	PVC	154.8	0	3	\$15,480
59	Lamprey River Park	U	04-043	04-039B	8	AC	4.9	0	5	\$490
60	Lamprey River Park	D	04-039	04-039A	8	AC	113.3	0.1	5	\$2,000
61	Lamprey River Park	D	04-039A	04-033A	8	AC	203.3	0.1	4	\$20,330
62	Lamprey River Park	D	04-044	04-043	6	PVC	15.2	0	5	\$1,520
63	Lamprey River Park	U	04-045	04-044	6	PVC	247.0	0	5	\$24,700
64	Pulaski Dr	D	04-021	04-022a	8	AC	273.3	0	3	\$27,300
65	Pulaski Dr	U	04-022	04-021	8	AC	101.1	0.1	5	\$10,100
66	Dame Rd	U	04-022b	04-010	8	AC	137.6	0.5	3	\$13,760
68	Dame Rd	U	04-011	04-010	8	VCP	302.5	2.2	4	\$35,250
69	Dame Rd	D	04-010	04-009	8	VCP	40.4	0	5	\$18,000
70	Dame Rd	D	04-023b	04-023	6	AC	144.0	1	4	\$16,900
71	Dame Rd	D	04-023	04-009	6	VCP	162.6	0	5	\$34,260
72	Lamprey St	D	04-009	04-008	12	PVC	301.9	21	5	\$32,190
73	Lamprey St	D	04-008	04-007	12	PVC	246.9	2.5	5	\$26,690
74	Lamprey St	D	04-007	04-006	12	PVC	287.5	2	4	\$30,750
77	Boardman Ave	D	04-024	04-007	6	PVC	225.8	0	5	\$20,000
79	Lamprey St	D	04-003	04-002	12	PVC	279.1	0	3	\$2,000
80	Lamprey St	D	04-002	04-001	12	DIP	73.4	0	3	\$2,000
81	Sanborn Ave	D	04-025	04-006	6	VCP	87.1	0	3	\$8,710
82	Ham St	D	04-028	04-027	6	VCP	121.6	0	3	\$12,160
83	Ham St	U	04-027	04-026	6	VCP	60.6	0	5	\$6,060
84	Ham St	D	04-026	04-004	6	CAS	87.5	0	4	\$8,750
97	Maple St	U	05-137	05-136	8	VCP	399.7	0	4	\$39,970
98	Maple St	D	05-136	05-017A	8	VCP	193.9	0	3	\$19,890
100	Railroad St	D	05-132.1	05-132	6	PVC	96.5	0	4	\$9,650
113	Penstock Way	D	05-273	05-272	8	DIP	218.8	0	3	\$21,880
114	Penstock Way	D	05-272	05-271	10	DIP	201.5	0	3	\$20,150
116	Penstock Way	D	05-271A	05-270	12	PVC	176.5	0	4	\$8,500
117	Bay Rd	U	04-033b	04-033A	8	PVC	1.1	0	4	\$550
118	Prescott St	D	05-261	05-260	8	VCP	69.1	0	4	\$7,410
119	Prescott St	D	05-260	05-258	8	VCP	181.3	0	4	\$18,130
120	Prescott St	U	05-260	05-258	8	VCP	158.2	0	4	\$15,820
121	Creighton St	U	05-275	05-005	10	PVC	247.5	0	5	\$24,750
122	Water St	U	05-276	05-275	10	VCP	46.4	1	5	\$4,640
126	Mt Pleasant	D	05-250	05-251	6	VCP	245.8	0	4	\$4,270
129	Exeter Rd	U	05-252	05-255	10	PVC	167.6	0	3	\$4,000
130	Prescott St	D	05-258	05-259	10	PVC	96.1	1	4	\$9,610
132	Pine St	U	05-267	05-266	6	AC	3.3	0	4	\$330
133	Pine St	D	05-266	05-265	6	AC	185.9	0	3	\$18,590
134	Pine St	D	05-265	05-264	6	AC	165.8	0	5	\$16,580
135	Pine St	D	05-267	05-266	6	AC	3.3	0	5	\$6,000
136	South St	D	05-268	05-264	8	AC	68.6	0	4	\$14,360
137	South St	D	05-269	05-268	6	VCP	17.3	0	5	\$9,230
138	South St	U	05-269	05-268	6	VCP	30.7	1	4	\$17,000
139	South St	U	05-268	05-264	8	VCP	14.1	0	5	\$5,000
140	South St	D	05-264	05-263	8	VCP	245.0	0	5	\$32,500
141	St Marys Church	D	05-263	05-262	8	VCP	9.2	0	4	\$1,420
142	St Marys Church	U	05-263	05-262	8	VCP	5.8	0	4	\$1,080

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143	St Marys Church	D	05-262	05-008	8	VCP	152.5	0	4	\$20,750
144	South St	D	05-286	05-285	6	VCP	198.5	0	3	\$24,850
145	South St	D	05-285	05-284	6	VCP	149.3	0.3	3	\$17,430
148	Elm St	D	02-008	02-007	8	AC	193.4	1	4	\$7,500
151	Elm St	D	02-005	02-004	8	AC	153.9	0	3	\$8,000
152	Elm St	D	02-004	02-003	8	DIP	116.3	0	3	\$14,130
155	New Rd	D	05-239a	05-239	8	AC	152.4	1	4	\$2,000
157	New Rd	D	05-238b	05-238a	8	AC	120.4	1	4	\$10,500
158	New Rd	D	05-238a	05-238	8	AC	130.9	1	4	\$2,500
159	Central St	D	05-284	05-283	8	VCP	19.5	0	4	\$6,950
160	Central St	U	05-284	05-283	8	VCP	94.7	0	4	\$11,000
161	Central St	D	05-283	05-282	8	VCP	76.3	0	4	\$11,500
162	Central St	U	05-283	05-282	8	VCP	67.8	0	4	\$3,000
164	Elm St	U	02-046	02-089	8	AC	202.5	0	4	\$8,500
167	Cedar St	D	02-002	02-001	8	AC	204.9	0	3	\$2,000
170	Packers Falls Rd	U	01-018	01-017	8	AC	254.9	1	5	\$4,500
173	Packers Falls Rd	D	01-016	01-015	8	AC	178.5	2	4	\$18,350
177	Central St	D	05-282	05-281	10	VCP	57.2	0	4	\$7,000
178	Tasker St	D	05-254	05-253	6	VCP	104.9	0	3	\$6,000
179	Lafayette St	U	01-020	01-019	6	CAS	99.9	0	3	\$9,990
182	Packers Falls Rd	D	02-042	02-041	8	AC	148.2	0	4	\$18,500
187	Packers Falls Rd	D	02-037	02-036	8	DIP	249.7	0	3	\$24,970
189	Packers Falls Rd	D	02-012	02-011	8	DIP	183.9	0	4	\$4,500
191	Packers Falls Rd	D	05-140	05-139	8	AC	348.7	0	3	\$40,370
192	Packers Falls Rd	D	05-139	05-138	8	AC	214.6	0	3	\$28,960
199	Grant Rd	D	05-034	05-033a	8	AC	247.6	1	4	\$2,500
200	Grant Rd	D	05-033a	05-033	8	DIP	105.2	0	3	\$10,520
201	Wadleigh Falls Rd	U	05-043	05-033	8	DIP	192.0	0	3	\$19,200
202	Wadleigh Falls Rd	D	05-033	05-032	8	DIP	282.6	0	3	\$28,260
208	Hersey Ln	D	05-200	05-199	8	AC	289.4	0	3	\$3,000
210	Hersey Ln	D	05-198	05-198A	8	AC	207.4	0	3	\$3,000
212	Hersey Ln	D	05-197	05-196	8	AC	202.0	0	3	\$500
214	Hersey Ln Easement	D	05-194	05-193	8	AC	169.3	0	3	\$17,430
229	Rt 108	D	05-182	05-181	8	DIP	149.4	0	3	\$14,939
231	Rt 108	D	05-180	05-179	8	DIP	149.6	0	3	\$14,964
232	Rt 108	U	05-178	05-177	8	DIP	245.7	0	3	\$24,575
233	Rt 108	U	05-179	05-178	8	DIP	139.9	0	3	\$13,994
238	Rt 108 Easement	U	05-215	05-173	8	AC	246.1	0	3	\$3,000
241	Rt 108	D	05-172	05-171	8	AC	228.4	0	3	\$4,500
243	Rt 108	D	05-170	05-169	8	AC	133.5	0	4	\$15,350
245	Rt 108	D	05-168	05-167	8	AC	228.7	0	4	\$22,500
246	Rt 108	D	05-167	05-166	8	AC	200.4	0	3	\$8,000
248	Rt 108	D	05-165	05-164	8	AC	245.4	0	3	\$24,540
249	Rt 108	D	05-164	05-163	8	AC	23.0	0	5	\$2,800
250	Rt 108	D	05-160	05-161	8	AC	227.5	0	3	\$6,000
251	Rt 108	D	05-161	05-159	8	VCP	125.9	2	4	\$20,000
252	Rt 108	U	05-162	05-160	8	AC	147.9	0	3	\$14,790
256	Chapel St	D	05-280a	05-280	6	PVC	195.0	0	4	\$4,000
257	Chapel St	D	05-280	05-279	6	VCP	31.5	1	5	\$6,150
258	Gerry Ave	D	05-010a	05-010	6	AC	86.6	0	3	\$11,660
260	Rt 152	D	05-008	05-007	18	PVC	135.9	0	3	\$2,500
270	Water St	D	05-270a	05-270	12	DIP	109.5	0	3	\$11,450
275	Tasker Ln	D	05-254	05-253	6	VCP	186.6	0	3	\$21,160
276	Tasker Ln	D	05-253	05-252	6	VCP	26.4	0	3	\$2,640
277	Young Ln	U	05-242a	05-242	8	AC	189.0	0	3	\$18,900
278	Young Ln	D	05-242	05-241	8	AC	233.0	1	5	\$23,300
279	Rt 152	D	05-108	05-107	6	VCP	184.0	0	5	\$21,400
280	Rt 152	U	05-108	05-107	6	VCP	184.0	0	4	\$18,900
281	Rt 152	D	05-107	05-106	6	VCP	250.0	0	5	\$30,500
282	Rt 152	U	05-107	05-106	6	VCP	250.0	0	5	\$30,000
284	Rt 152	U	05-105	05-104	8	AC	258.2	0	4	\$25,820
285	Rt 152	D	05-104	05-025	8	AC	33.3	0	4	\$3,330
286	Pond St	U	05-094	05-029	8	AC	276.7	0	4	\$5,000
287	Church St	D	05-278a	05-277a	6	VCP	253.0	0	3	\$25,800
288	Church St	U	05-278a	05-277a	6	VCP	253.0	0	5	\$30,300
289	Church St	D	05-277a	05-278	6	VCP	60.4	0	5	\$8,540
290	Church St	U	05-277a	05-278	6	VCP	60.4	0	5	\$11,040
291	Church St	D	05-278	05-277	6	VCP	127.8	0.3	5	\$12,780
292	Elm St	D	05-304	05-303a	8	DIP	159.5	0	5	\$16,450
294	Elm St	D	05-302	05-301	12	AC	87.0	0	5	\$13,700
295	Newmarket Highschool	U	05-025	05-024	18	PVC	74.3	0	3	\$2,000
297	Elm St	U	05-301	05-295	12	AC	245.0	0	5	\$37,000
298	Elm St	D	05-295	05-292	15	AC	273.4	0	3	\$29,840
300	Rt 108 Easement	U	04-053	04-052	10	DIP	162.2	0	3	\$2,000
302	Rt 108	D	04-051	04-050	8	AC	61.5	0	5	\$6,150
Total							23123.1	63.8		\$1,940,652

Appendix D
Town of Newmarket
SSES Phase II Project May 2023

Table 9 - Sewer Manholes in Critical Condition (Scores of 3, 4, or 5)				
ID	Location	MH Number	Condition Score	Cost
1	Maplecrest St	05-097	5	\$500
3	Maplecrest St	05-099	5	\$500
5	Maplecrest St	05-103	5	\$5,500
6	Maplecrest St	05-102	4	\$5,500
7	Maplecrest St	05-101	3	\$5,500
8	Maplecrest St	05-096	3	\$500
10	Piscassic St	03-012	3	\$5,000
13	Bass St Condos	03-017a	3	\$5,000
16	Lamprey River Park	04-044	5	\$500
17	Lamprey St	04-007	4	\$6,500
23	Penstock Way	05-273	3	\$5,000
25	Creighton St	05-275	3	\$5,000
29	Mt Pleasant	05-250	3	\$5,000
30	Tasker Ln	05-254	4	\$5,000
35	Pine St	05-266	3	\$6,500
36	Pine St	05-265	3	\$5,000
37	Pine St	05-264	3	\$5,000
40	South St	05-286	3	\$5,000
48	Gerry Ave	05-010a	4	\$5,500
50	Rt 152	05-107	3	\$5,500
53	Rt 108 Easement	04-052	3	\$5,500
56	Spring St	05-296	4	\$5,000
57	Elm St	05-295	5	\$5,500
59	Rt 108	05-161	4	\$6,000
-	New Rd	05-245	5	\$3,000
Subtotal =				\$112,500

Pipe & MH Subtotal = \$2,053,152
 Engineering = \$100,000
 Contingency (10%) = \$205,315
GRAND TOTAL = \$2,358,467