

41 Perimeter Center East, Suite 250 Dunwoody, Georgia 30346 P (678) 382-6700 F (678) 382-6701 dunwoodyga.gov

<u>MEMORANDUM</u>

To: Warren Hutmacher, City Manager

From: Michael Smith, Public Works Director

Date: January 17, 2014

Subject: Stormwater Utility Funding Discussion

This memo provides Public Works' analysis of funding for infrastructure replacement projects within the stormwater utility.

Background

Since creating a stormwater utility in 2009, the City has inventoried and assessed the condition of the entire public and private stormwater system and has replaced over 100 failing pipes. As more information has been gathered on the system and four full years of historical spending has been established, the future needs and costs for infrastructure replacement are becoming clearer.

Discussion

The City owns and maintains approximately 70 miles of stormwater pipe and 5,700 stormwater structures. About 70% or close to 50 miles of this pipe is corrugated metal pipe which after a period of time (typically 30 to 40 years) rusts and has to be replaced. Considering when much of the City was developed, it is reasonable to assume that the City has 30 to 40 miles of metal pipe near or beyond its useful life (see attached chart). Based on the failure rate experienced over the last 4 years, the projected annual cost to replace these pipes as they fail is estimated to be \$1,500,000.

Following is a snapshot of the current funding status of the stormwater utility:

Backlog of pipes and structures in need of repair or replacement: \$4,000,000

Cost to replace pipes rated 'Poor' (129 Pipes): \$4,500,000

• Cost to replace aging 'Fair' rated pipes as they fail over the next \$7,500,000

5 years

• Total estimated 5-year replacement cost \$16,000,000

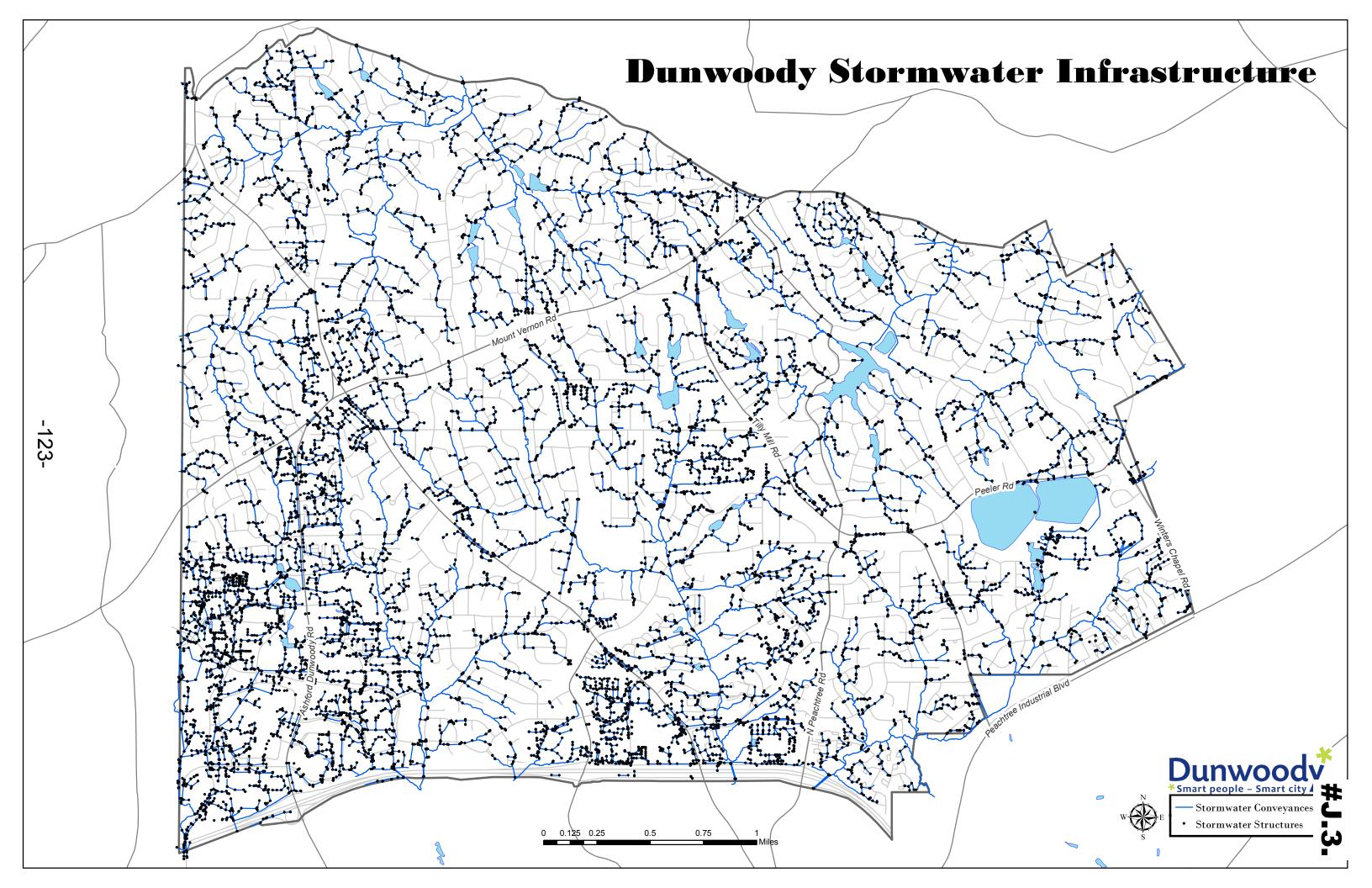
With an annual replacement budget of \$1,000,000 to \$1,100,000, a 4 to 5 year real backlog of projects exists. Anticipating that pipes will continue to fail at a rate faster than they can be replaced this backlog could grow to 5 to 10 years over the next 5 years. So far the City has been able to prioritize repairs to stay within funding constraints without significant negative impacts. This will become more difficult as the backlog grows.

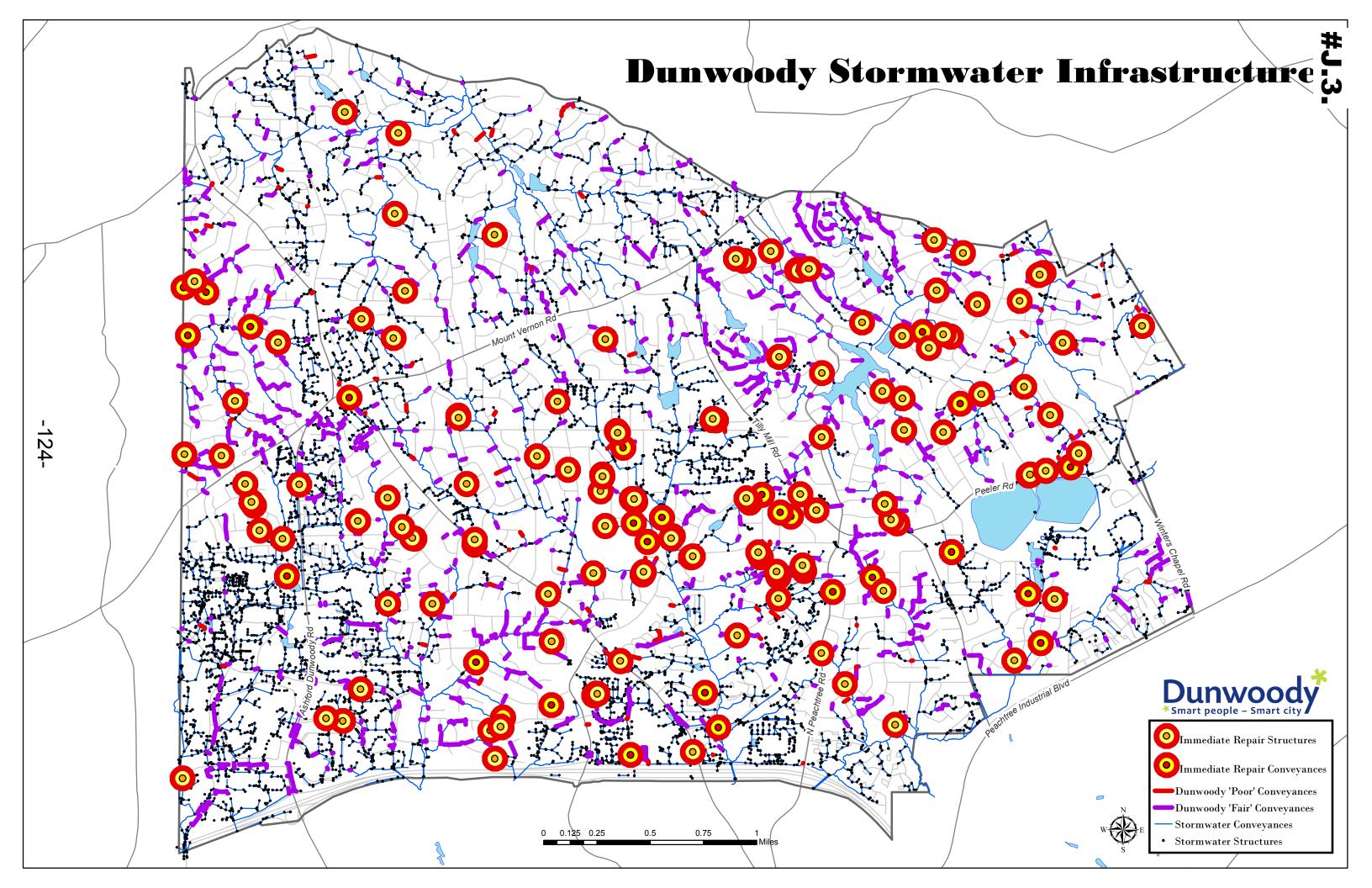


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Alternatives

- The City could continue under the current funding and hope that most pipes last longer than expected so that the backlog does not grow. If in the future the backlog does grow, action could be taken at that time. The risk in this approach is that some of the deferred projects continue to deteriorate to the point that they cost more to repair and are more disruptive by the time the City is able to fund the repair.
- 2. The City could issue revenue bonds that would be paid back over time using the stormwater utility fee. This would provide an infusion of revenue in the short term that would allow the expected pipe replacements to be completed more aggressively.
- 3. The City could consider tying the annual stormwater fee to a standard inflation index. As construction costs rise it will become more difficult to keep up with the cost of repairs without adjusting the fee for inflation.





2014-2016 Budgeted Stormwater Projects

| Location | Туре | Year | Tot. Costs Est. |
|-------------------------------------|-------------|------|-----------------|
| Replacement Projects | | | and Final |
| 5628 Bend Creek | Replace | 2014 | \$20,000.00 |
| Manor Oaks Lot 10 | Replace | 2015 | \$10,000.00 |
| 5007 Oak Trail Part B | Replacement | 2015 | \$20,000.00 |
| 4871 Coldstream Drive | Replace | 2014 | \$45,000.00 |
| 1611 Mt Vernon Forest Court | Replace | 2014 | \$45,000.00 |
| 4600 Dunover Circle | Replace | 2014 | \$17,000.00 |
| | | | \$0.00 |
| Replacement Totals | | | \$157,000.00 |
| | | | |
| Location | Type | Year | Total Est. Cost |
| Lining Projects | | | |
| 1862 Stapleton Court | Lining | 2015 | \$25,000.00 |
| Lakesprings Court | Lining | 2014 | \$95,000.00 |
| Vermack Road | Lining | 2014 | \$140,000.00 |
| Perimeter Center East Extension | Lining | 2015 | \$125,000.00 |
| 5368 Redfield Cir to Redfield Drive | Lining | 2015 | \$55,000.00 |
| 5610 Trowbridge | Lining | 2015 | \$25,000.00 |
| 1764 Tamworth | Lining | 2015 | \$10,000.00 |
| Rivergleen Circle | Lining | 2015 | \$60,000.00 |
| 4325 Huntington Circle | Lining | 2014 | \$60,000.00 |
| 115 Perimeter Center Place | Lining | 2015 | \$50,000.00 |
| Perimeter Center West | Lining 201 | | \$25,000.00 |
| Redfield Drive | Lining | 2015 | \$70,000.00 |
| 1603 / 1595 North Springs Drive | Lining | 2015 | \$45,000.00 |
| 3046 Four Oaks | Lining | 2015 | \$40,000.00 |
| 3070 Four Oaks | Lining | 2015 | \$40,000.00 |
| Dunwoody Park | Lining | 2014 | \$85,000.00 |
| 1587 North Springs Drive | Lining | 2015 | \$26,000.00 |
| 5495 Mill Trace Drive | Lining | 2015 | \$35,000.00 |
| 4600 Dunover Circle | Lining | 2014 | \$19,000.00 |
| 2487 Dunkerrin Lane | Lining | 2014 | \$20,000.00 |
| 4677 Sharon Valley Court | Lining | 2014 | \$20,000.00 |
| 2777 Fleur De Lis Way | Lining | 2014 | \$17,000.00 |
| 2501 Maclaren Circle | Lining | 2016 | \$45,663.70 |
| | | | \$0.00 |

Lining Totals

\$1,132,663.70

#J.3.

| _ | | |
|--------------|--------------|---|
| Туре | Year | Total Est. Cost |
| | | |
| Det. Pd. Cl. | 2014 | \$20,000.00 |
| Det. Pd. Cl. | 2014 | \$25,000.00 |
| | | \$0.00 |
| | 2014 | \$100,000.00 |
| | 2015 | \$150,000.00 |
| | 2016 | \$150,000.00 |
| | | \$0.00 |
| | | \$445,000.00 |
| | Det. Pd. Cl. | Det. Pd. Cl. 2014 Det. Pd. Cl. 2014 2014 2015 |

| Location | Туре | Year | Total Est. Cost |
|-------------------------|-------------|------|-----------------|
| Jet/Cleaning/TV | | | |
| Peachford Road | Jet/ Cl/ TV | 2016 | \$8,000.00 |
| | Jet/ Cl/ TV | | \$0.00 |
| Estimate for 2014 | Jet/ Cl/ TV | 2014 | \$100,000.00 |
| Estimate for 2015 | Jet/ Cl/ TV | 2015 | \$100,000.00 |
| Estimate for 2016 | Jet/ Cl/ TV | 2016 | \$100,000.00 |
| | Jet/ Cl/ TV | | \$0.00 |
| Jet/ Cleaning/TV Totals | | | \$308,000.00 |

| Location | Туре | Year | Total Est. Cost |
|-------------------------|--------------|------|-----------------|
| Special Projects | | | |
| 1368 Martina | Streambank R | 2014 | \$80,000.00 |
| | | | \$0.00 |
| Estimate for 2014 | | 2014 | \$100,000.00 |
| Estimate for 2015 | | 2015 | \$100,000.00 |
| Estimate for 2016 | | 2016 | \$100,000.00 |
| Special Projects Totals | | | \$380,000.00 |

| Capital Stormwater Projects | 2012 | 2013 | 2014 | 2015 | 2016 | 5-Yr Total |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Replacement Projects | \$373,576.03 | \$633,915.52 | \$377,000.00 | \$30,000.00 | \$0.00 | \$1,414,491.55 |
| Lining Projects | \$167,190.05 | \$402,981.41 | \$456,000.00 | \$631,000.00 | \$45,663.70 | \$1,702,835.16 |
| Detention Pond Cleaning/Repairs | \$145,508.91 | \$121,890.25 | \$85,000.00 | \$150,000.00 | \$150,000.00 | \$652,399.16 |
| Jet/Cleaning/TV | \$69,530.00 | \$203,333.95 | \$100,000.00 | \$100,000.00 | \$108,000.00 | \$580,863.95 |
| Special Projects | \$162,816.26 | \$23,225.00 | \$80,000.00 | \$100,000.00 | \$100,000.00 | \$466,041.26 |
| Total | \$918,621.25 | \$1,385,346.13 | \$1,098,000.00 | \$1,011,000.00 | \$403,663.70 | \$4,816,631.08 |
| Capital Stormwater Budget | \$1,018,500.00 | \$1,330,000.00 | \$1,100,000.00 | \$1,100,000.00 | \$1,100,000.00 | \$5,648,500.00 |
| Variance | \$99,878.75 | (\$55,346.13) | \$2,000.00 | \$89,000.00 | \$696,336.30 | \$831,868.92 |

Stormwater Unbudgeted Immediate Repairs Conveyances

| | | | | Final Status | Estimate |
|------------------|---------------------|------------------------------|-------------------|--|-------------|
| AssetID | Conveyance Material | Conveyance Physical Location | Installation Date | | |
| SWC 4316-88-4878 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | 08/16/1968 | 5) for Pipes. Road works sent to repair cracks | \$8,804.95 |
| SWC 4327-39-0501 | CMP (GALVANIZED) | EASEMENT (FRONT) | 07/13/1978 | Needs Assignment 2015 | \$9,485.76 |
| SWC 4371-48-6551 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | Needs Assignment (Lining 2014) | \$21,606.70 |
| SWC 4384-58-4979 | CMP (GALVANIZED) | EASEMENT (SIDE) | 09/18/1964 | Needs Assignment 2014 | \$24,634.83 |
| SWC 5207-87-5237 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | (Needs Assignment (Lining 2014) | \$17,567.20 |
| SWC 5226-84-1945 | CMP (GALVANIZED) | STREET (COLLECTOR) | <null></null> | Needs Assignment (Lining 2016) | \$7,656.20 |
| SWC 5247-91-9793 | CMP (GALVANIZED) | STREET (COLLECTOR) | <null></null> | Needs Assignment (Lining 2016) | \$8,368.52 |
| SWC 5248-60-6269 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | <null></null> | Needs Assignment 2015 | \$22,694.70 |
| SWC 5322-82-9392 | CMP (GALVANIZED) | EASEMENT (SIDE) | 09/15/1968 | Needs Assignment 2014 | \$37,952.32 |
| SWC 5322-97-2687 | CMP (GALVANIZED) | EASEMENT (REAR) | 09/15/1968 | Needs Assignment 2017 | \$48,843.95 |
| SWC 5323-14-1376 | CMP (GALVANIZED) | EASEMENT (REAR) | 09/15/1968 | Needs Assignment 2015 | \$50,381.95 |
| SW 324-45-7230 | CMP (GALVANIZED) | STREET (COLLECTOR) | 01/28/1967 | Needs Assignment 2016 | \$22,733.20 |
| SW 9 324-61-3083 | CMP (GALVANIZED) | EASEMENT (SIDE) | 10/14/1971 | Needs Assignment 2015 | \$37,000.45 |
| SWC 5330-19-1673 | CMP (GALVANIZED) | EASEMENT (SIDE) | 03/20/1968 | Needs assginment 2014 | \$22,357.95 |
| SWC 5331-27-3775 | CMP (GALVANIZED) | EASEMENT (SIDE) | 09/15/1968 | Needs assginment 2015 | \$33,329.57 |
| SWC 5331-89-6121 | CMP (GALVANIZED) | EASEMENT (SIDE) | 05/25/1973 | Needs assginment 2014 | \$86,263.70 |
| SWC 5332-53-9762 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | Needs assginment 2015 | \$24,043.95 |
| SWC 5344-88-6191 | CMP (GALVANIZED) | EASEMENT (REAR) | 04/11/1979 | lining project | \$10,421.20 |
| SWC 5362-09-7337 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | 11/21/1967 | Needs Assignment (Lining 2016) | \$20,663.70 |
| SWC 5362-55-3012 | CMP (ALUMINIZED) | STREET (RESIDENTIAL) | 07/20/1962 | Needs Assignment 2016 | \$8,450.36 |
| SWC 5362-73-8978 | RCP | STREET (RESIDENTIAL) | 06/03/1964 | Needs Assignment early 2014 | \$11,959.68 |
| SWC 5368-95-4034 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | Needs Assignment in 2015 or 2016 | \$22,168.45 |
| SWC 5370-85-2289 | CMP (GALVANIZED) | EASEMENT (SIDE) | 05/10/1967 | Needs Assignment 2018 | \$28,842.45 |
| SWC 6229-92-8643 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | 05/30/1968 | Needs Assignment (Lining 2015) | \$15,252.95 |
| SWC 6305-91-9910 | CMP (GALVANIZED) | EASEMENT (REAR) | 08/24/1965 | Needs Assignment (Lining 2015) | \$16,269.45 |
| SWC 6306-09-5762 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | Needs Assignment (Lining 2015) | \$19,546.70 |
| SWC 6320-64-7846 | CMP (GALVANIZED) | EASEMENT (SIDE) | 12/04/1973 | Needs Assignment (Lining 2017) | \$25,560.95 |
| SWC 6323-74-2336 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | <null></null> | Needs Assignment 2014 | \$24,403.08 |

| SWC 6333-76-2147 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | 07/13/1981 | Needs Assignment in 2014 | \$29,897.70 |
|------------------|------------------|----------------------|---------------|--------------------------------|-------------|
| SWC 6334-29-2139 | CMP (GALVANIZED) | STREET (RESIDENTIAL) | <null></null> | Needs Assignment (Lining 2015) | \$8,885.70 |
| SWC 6338-04-5320 | CMP (GALVANIZED) | EASEMENT (SIDE) | <null></null> | Needs Assignment (Lining 2015) | \$33,984.37 |

Total \$760,032.64

Stormwater Unbudgeted Immediate Repairs Structures

| AssetID | Structure Type | Structure Material | Structure Physical Location 3 | tructure Installation Da | te Final Status | Estimate |
|---------------------------------|----------------------|--------------------|-------------------------------|--------------------------|-----------------------------|-------------|
| SWS 4257-23-7966 | HW (45° WINGS) | OTHER | STREET (COLLECTOR) | <null></null> | Needs Assignment | \$17,899.87 |
| SWS 4296-43-5976 | HW (STRAIGHT) | PRECAST CONCRETE | EASEMENT (SIDE) | 07/28/1961 | Maintenance WO | |
| SWS 4297-30-4906 | CB (UNCLASSIFIED) | OTHER | STREET (RESIDENTIAL) | 05/10/1962 | Maintenance WO | |
| SWS 4297-51-9952 | HW (STRAIGHT) | OTHER | EASEMENT (SIDE) | 07/28/1961 | Maintenance WO | |
| SWS 4313-79-6317 | CB (DOUBLE WING) | BRICK AND CONCRETE | STREET (RESIDENTIAL) | 06/21/1966 | Maintenance WO | |
| | | | | | Needs Assignment, detention | |
| SWS 4323-69-8035 | OCS | PRECAST CONCRETE | EASEMENT (REAR) | 09/20/1977 | pond, based on SEI estimate | \$22,785.18 |
| SWS 4328-02-1247 | HW (45° WINGS) | CMP (GALVANIZED) | EASEMENT (SIDE) | 07/13/1978 | Maintenance WO | |
| | · | • | , , | | Needs assingment in 2014 to | |
| | | | | | prevent damage to property | |
| SWS 4332-46-8703 | HW (45° WINGS) | CMP (GALVANIZED) | EASEMENT (REAR) | 08/28/1978 | above | \$39,823.70 |
| SWS 4332-47-2651 | HW (45° WINGS) | NOT APPLICABLE | EASEMENT (REAR) | 08/28/1978 | Maintenance WO | |
| SWS 4332-60-2553 | HW (UNCLASSIFIED) | OTHER | EASEMENT (REAR) | 08/28/1978 | Needs Assignement 2016 | \$8,187.20 |
| SW' ⁻ , *333-22-7024 | HW (45° WINGS) | CMP (GALVANIZED) | EASEMENT (REAR) | 08/28/1978 | Maintenance WO | |
| | YI (GRATE) | BRICK AND CONCRETE | STREET (RESIDENTIAL) | 09/30/1969 | Maintenance WO | |
| SW - 341-18-9445 | HW (45° WINGS) | CMP (GALVANIZED) | EASEMENT (REAR) | 11/17/1978 | | |
| SWS 4343-61-0995 | CB (SINGLE WING-LH) | OTHER | STREET (FOUR LANE) | <null></null> | Maintenance WO | |
| SWS 4346-07-8141 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (FRONT) | <null></null> | Maintenance WO | |
| SWS 4360-82-0458 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | <null></null> | Maintenance WO | |
| SWS 4362-02-6847 | VIRTUAL STRUCTURE | NOT APPLICABLE | EASEMENT (SIDE) | 01/09/1965 | Maintenance WO | |
| SWS 4362-78-9682 | PLAIN END PIPE | CMP (GALVANIZED) | UNKNOWN | 03/22/1954 | Needs Assignment | \$6,658.40 |
| SWS 4366-98-4166 | | | | | Maintenance WO | |
| SWS 4367-12-5900 | HW (45° WINGS) | PRECAST CONCRETE | | <null></null> | Needs Assignment | \$7,583.61 |
| SWS 4369-99-7052 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 09/30/1977 | | |
| SWS 4370-92-1301 | YI (GRATE) | POURED CONCRETE | EASEMENT (SIDE) | 01/05/1963 | Maintenance WO | |
| SWS 4371-48-0684 | HW (UNCLASSIFIED) | BRICK AND CONCRETE | EASEMENT (SIDE) | <null></null> | Needs Assignment (Lining) | \$17,238.00 |
| SWS 4372-11-5378 | PLAIN END PIPE | RCP | STREET (RESIDENTIAL) | 07/12/1954 | Maintenance WO | |
| SWS 4377-29-2887 | HW (UNCLASSIFIED) | PRECAST CONCRETE | EASEMENT (REAR) | <null></null> | Maintenance WO | |
| SWS 4381-97-4097 | HW (UNCLASSIFIED) | PRECAST CONCRETE | STREET (COLLECTOR) | <null></null> | WO to further investigate | |
| SWS 4381-98-5246 | PLAIN END PIPE | CMP (GALVANIZED) | | <null></null> | | |
| SWS 4383-72-5053 | HEADWALL (45° WINGS) | BRICK AND CONCRETE | STREAMWAY | 10/26/1966 | | |

| SWS 4384-58-5464 | PLAIN END PIPE | CMP (GALVANIZED) | EASEMENT (SIDE) | 09/18/1964 | Needs Assignment | \$16,577.87 |
|--|------------------------|----------------------|----------------------|---------------|--------------------------------|-------------|
| SWS 4399-43-4768 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 05/24/1981 | Maintenance WO | |
| SWS 4452-74-3250 | PLAIN END PIPE | CMP (GALVANIZED) | EASEMENT (SIDE) | 02/28/1966 | Needs Assignment | \$22,666.38 |
| SWS 4471-08-6959 | YI (PEDESTAL) | PRECAST CONCRETE | EASEMENT (REAR) | 04/22/1975 | | |
| SWS 5209-83-6053 | HW (TAPERED) | BRICK AND CONCRETE | EASEMENT (REAR) | 10/18/1965 | Maintenance WO | |
| SWS 5218-90-9032 | PLAIN END PIPE | CMP (GALVANIZED) | PRIVATE | <null></null> | Needs Assignment 2015 | \$41,693.95 |
| SWS 5228-58-6231 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | STREET (FOUR LANE) | <null></null> | WO to Road Works | |
| SWS 5228-58-6231 | | | | | Maintenance WO | |
| SWS 5246-35-6605 | TRENCH DRAIN INLET | POURED CONCRETE | RIGHT-OF-WAY | <null></null> | Maintenance WO | |
| SWS 5259-44-6541 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | PUBLIC PARK | <null></null> | Maintenance WO | |
| SWS 5279-50-4185 | CB (UNCLASSIFIED) | OTHER | STREET (RESIDENTIAL) | <null></null> | Maintenance WO | |
| | | | | | (Needs Assignment - lining | |
| SWS 5288-12-2497 | PLAIN END PIPE | CMP (GALVANIZED) | EASEMENT (SIDE) | 11/18/1963 | 2016) | \$28,242.16 |
| SWS 5297-32-7388 | HW (UNCLASSIFIED) | OTHER | EASEMENT (SIDE) | 05/15/1963 | Maintenance WO | |
| SWS 5300-74-7756 | CB (UNCLASSIFIED) | BRICK AND CONCRETE | STREET (COLLECTOR) | <null></null> | | |
| SWS 5303-58-0942 | HEADWALL (UNCLASSIFIE | IOTHER | RIGHT-OF-WAY | 02/24/1965 | Needs Assingment (Lining) | \$64,984.69 |
| SWS 5310-89-9993 | HEADWALL (45° WINGS) | PRECAST CONCRETE | EASEMENT (REAR) | 02/15/1974 | Maintenance WO | |
| SWS 5313-25-6661 | HEADWALL (UNCLASSIFIE | I BRICK AND CONCRETE | EASEMENT (SIDE) | 06/07/1967 | | |
| -131 | | | | | | |
| - - - - | | | | | In Planning Phases, Included | |
| SWS 5315-02-1413 | YARD INLET (GRATE) | PRECAST CONCRETE | EASEMENT (FRONT) | 12/10/1972 | on Master Spreasheet | |
| SWS 5323-13-2962 | HEADWALL (UNCLASSIFIE | IOTHER | EASEMENT (SIDE) | 09/15/1968 | Maintenance WO | |
| SWS 5324-54-0705 | HEADWALL (45° WINGS) | PRECAST CONCRETE | PRIVATE | 01/28/1967 | Needs Assingment (Lining) | \$15,258.00 |
| SWS 5326-17-9945 | HEADWALL (UNCLASSIFIE | I NOT APPLICABLE | EASEMENT (FRONT) | 05/15/1970 | | |
| SWS 5331-10-4225 | HEADWALL (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 03/20/1968 | Needs Assignment (2014) | \$15,857.02 |
| | | | | | (Needs Assignment - lining | |
| SWS 5331-88-2662 | HEADWALL (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 05/25/1973 | 2016) | \$44,599.20 |
| SWS 5341-33-1962 | PLAIN END PIPE | CMP (GALVANIZED) | STREET (COLLECTOR) | <null></null> | Needs Assingment 2015 | \$14,481.34 |
| | | | | | Included in estiamte SWS 5341- | |
| SWS 5341-34-6101 | PLAIN END PIPE | CMP (GALVANIZED) | STREET (COLLECTOR) | <null></null> | 33-1962 (above) | |
| | | | | | Added to GIS as OCS and | |
| SWS 5344-88-5241 | HEADWALL (45° WINGS) | CMP (GALVANIZED) | EASEMENT (REAR) | 04/11/1979 | detention pond list. | \$30,000.00 |
| SWS 5344-88-8050 | HEADWALL (45° WINGS) | CMP (GALVANIZED) | EASEMENT (REAR) | 04/11/1979 | Needs Assignment (Lining) | \$15,466.87 |
| SWS 5344-97-3758 | HEADWALL (45° WINGS) | PRECAST CONCRETE | EASEMENT (REAR) | 04/11/1979 | | |
| SWS 5351-95-8100 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | PUBLIC PARK | <null></null> | Maintenance WO | |

| | | | | | (Needs Assignment - lining | Ī |
|-------------------|------------------------|--------------------|----------------------|---------------|-----------------------------|-------------|
| SWS 5352-68-0525 | HEADWALL (45° WINGS) | DRECAST CONCRETE | EASEMENT (SIDE) | 11/11/1967 | 2015) | \$19,243.95 |
| 3473 3332-08-3323 | TILADVVALL (45 VIIVOS) | FILEAST CONCILETE | LASLIVIENT (SIDE) | 11/11/1907 | (Needs Assignment - lining | \$19,243.93 |
| SWS 5352-77-7437 | HEADWALL (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 11/11/1967 | 2015) | \$20,372.70 |
| | CATCH BASIN (SINGLE WI | | RIGHT-OF-WAY | <null></null> | Maintenance WO | 1 2/2 |
| SWS 5358-47-2877 | • | PRECAST CONCRETE | EASEMENT (SIDE) | 09/23/1975 | | |
| SWS 5358-67-2362 | · | PRECAST CONCRETE | EASEMENT (SIDE) | 08/12/1969 | Maintenance WO | |
| SWS 5360-43-8633 | | CMP (GALVANIZED) | STREAMWAY | <null></null> | Maintenance WO | |
| SWS 5360-49-8017 | FLUME | UNKNOWN | PUBLIC PARK | <null></null> | | |
| SWS 5361-03-4961 | UNKNOWN | UNKNOWN | PUBLIC PARK | <null></null> | Maintenance WO | |
| SWS 5361-40-3350 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | PUBLIC PARK | <null></null> | Maintenance WO | |
| SWS 5366-43-8581 | CB (SINGLE WING-LH) | PRECAST CONCRETE | STREET (RESIDENTIAL) | 01/24/1968 | Maintenance WO | |
| SWS 5366-53-0565 | HW (45° WINGS) | PRECAST CONCRETE | STREET (RESIDENTIAL) | 01/24/1968 | Maintenance WO | |
| SWS 5368-29-9732 | HW (UNCLASSIFIED) | OTHER | EASEMENT (SIDE) | 12/20/1965 | Needs Assignment (Lining) | \$13,475.83 |
| SWS 5368-94-9951 | HW (45° WINGS) | OTHER | EASEMENT (SIDE) | 12/20/1965 | Needs Assignment (Lining) | \$13,233.95 |
| SWS 5371-01-8822 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | PUBLIC PARK | <null></null> | | |
| SWS 5371-10-1574 | CATCH BASIN (UNCLASSIF | BRICK AND CONCRETE | PUBLIC PARK | <null></null> | | |
| SWS 5372-09-2534 | PLAIN END PIPE | RCP | STREET (RESIDENTIAL) | <null></null> | Maintenance WO | |
| SN 🕁 372-45-2512 | CB (SINGLE WING-RH) | POURED CONCRETE | STREET (COLLECTOR) | <null></null> | Maintenance WO | |
| SW N 374-53-5647 | HW (45° WINGS) | PRECAST CONCRETE | STREAMWAY | 09/12/2007 | Maintenance WO | |
| SWS 5375-59-6511 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 01/24/1968 | Maintenance WO | |
| SWS 5378-25-3370 | HW (UNCLASSIFIED) | POURED CONCRETE | EASEMENT (SIDE) | 12/20/1965 | Maintenance WO | |
| SWS 5387-52-5075 | HW (UNCLASSIFIED) | OTHER | UNKNOWN | 03/18/1968 | Maintenance WO | |
| SWS 5390-05-9620 | CB (UNCLASSIFIED) | PRECAST CONCRETE | STREET (RESIDENTIAL) | 05/10/1967 | Maintenance WO | |
| SWS 5392-17-1165 | YI (PEDESTAL) | BRICK AND CONCRETE | EASEMENT (SIDE) | 04/01/1974 | Maintenance WO | |
| | | | | | Needs Assignment (Lining | |
| SWS 5392-23-7179 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 04/01/1974 | 2015) | \$19,549.20 |
| SWS 5392-42-2313 | HW (UNCLASSIFIED) | BRICK AND CONCRETE | EASEMENT (SIDE) | 09/30/1965 | Needs Assignment 2017 | \$22,366.95 |
| SWS 5394-55-9358 | HW (STRAIGHT) | OTHER | UNKNOWN | 08/12/1968 | Needs Assignement | \$13,583.00 |
| | | | | | Needs Assignment 2015 (pipe | |
| | | | | | under road leading to | |
| SWS 5395-05-6013 | CB (DOUBLE WING) | PRECAST CONCRETE | STREET (RESIDENTIAL) | 01/21/1969 | structure is rusted out) | \$7,808.32 |
| SWS 5395-53-5254 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 09/28/1971 | Maintenance WO | |
| SWS 5396-58-5703 | HW (STRAIGHT) | BRICK AND CONCRETE | EASEMENT (SIDE) | 05/13/1966 | Maintenance WO | |
| | | | | | Needs Assignment (Lining | |
| SWS 6228-38-3301 | HW (UNCLASSIFIED) | OTHER | EASEMENT (REAR) | 07/30/1965 | 2016) | |

| SWS 6304-54-7825 | HW (STRAIGHT) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | Needs Assignment | \$3,896.76 |
|------------------------------------|---------------------|--------------------|----------------------|---------------|-------------------------------|-------------|
| SWS 6306-25-0689 | HW (STRAIGHT) | BRICK AND CONCRETE | EASEMENT (SIDE) | 05/13/1966 | Maintenance WO | |
| SWS 6306-78-4640 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (REAR) | 03/29/1989 | Maintenance WO | |
| SWS 6306-78-5580 | PLAIN END PIPE | PRECAST CONCRETE | EASEMENT (REAR) | 03/29/1989 | Maintenance WO | |
| SWS 6307-49-0969 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | 02/23/1973 | Needs Assignment (Lining) | \$18,368.87 |
| SWS 6309-32-4463 | HW (STRAIGHT) | PRECAST CONCRETE | EASEMENT (SIDE) | 03/10/1972 | | |
| SWS 6315-54-1311 | HW (STRAIGHT) | PRECAST CONCRETE | EASEMENT (SIDE) | 08/24/1965 | Needs Assignment | \$11,772.32 |
| SWS 6317-46-1568 | CB (SINGLE WING-RH) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | Maintenance WO | |
| SWS 6318-09-5292 | YI (PEDESTAL) | PRECAST CONCRETE | EASEMENT (REAR) | 05/16/1988 | Maintenance WO | |
| | | | | | Included in estiamte for SWC | |
| SWS 6323-64-8139 | CB (DOUBLE WING) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | 6323-74-2336 | |
| | | | | | Included in estiamte for SWC | |
| SWS 6323-74-1357 | CB (DOUBLE WING) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | 6323-74-2336 | |
| | | | | | Included in estiamte for SWC | |
| SWS 6323-74-3315 | HW (UNCLASSIFIED) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | 6323-74-2336 | |
| SWS 6325-56-7104 | HW (45° WINGS) | OTHER | EASEMENT (SIDE) | <null></null> | Needs Assignment | \$4,323.00 |
| | | | | | | |
| SWS 6327-47-6369 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | <null></null> | Needs to be Assigned (lining) | \$20,289.00 |
| SW $\frac{1}{\omega}$ 328-93-3719 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | <null></null> | Needs Assignment | \$18,841.91 |
| SW $\overset{\sim}{4}$ 328-93-5965 | PLAIN END PIPE | CMP (GALVANIZED) | EASEMENT (REAR) | <null></null> | Needs Assignment | \$22,037.08 |
| SWS 6330-33-3524 | HW (UNCLASSIFIED) | OTHER | EASEMENT (SIDE) | 05/30/1968 | | |
| SWS 6333-15-1314 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (REAR) | 07/13/1981 | Maintenance WO | |
| SWS 6333-99-2694 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (REAR) | 07/13/1981 | Needs Assingment 2016 | \$29,390.95 |
| SWS 6334-29-1195 | HW (45° WINGS) | PRECAST CONCRETE | STREET (RESIDENTIAL) | <null></null> | Maintenance WO | |
| SWS 6336-57-3005 | PLAIN END PIPE | CMP (GALVANIZED) | UNKNOWN | 02/12/1969 | Maintenance WO | |
| SWS 6357-41-9177 | HW (45° WINGS) | PRECAST CONCRETE | EASEMENT (SIDE) | <null></null> | Maintenance WO | |
| | | | | | | |

Total \$688,557.23

