CAPITAL PROJECT FOR 2018

Project Name:

Sewer Extensions Mount Brydges
Land Acquisition

Department:

Engineering & Public Works
- Wastewater Services

Estimated Gross Cost:

$70,000

Funding Sources:

<table>
<thead>
<tr>
<th>Grants/Recoveries</th>
<th>Loans</th>
<th>Gas Tax</th>
<th>Development Charges</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>$70,000</td>
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</table>

PROJECT DESCRIPTION:

The project includes the costs for the acquisition of lands that are eligible under Development Charges.

The purchase of land or acquisition of easement rights for sewer extensions in support of the Woods Edge, Pondview Subdivisions and potential future needs for lands on Glendon Drive.
Project Name:
South Creek Mount Brydges
Sewer Oversizing & Easement

Department:
Engineering & Public Works
• Wastewater Services

Estimated Gross Cost:
$100,000

Funding Sources:

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<th>Grants/Recoveries</th>
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</thead>
</table>

PROJECT DESCRIPTION:

This project includes costs to support the trunk sanitary sewer extension into the South Creek development site in Mount Brydges.

The works include Development Charge eligible costs for oversizing the trunk sewer to 250 mm diameter piping. In addition, the alignment of the proposed sewer will require land acquisition or easement acquisition for the works. The costs of the access provisions are also Development Charge eligible.
CAPITAL PROJECT FOR 2018

Project Name:

McKellar Street Reconstruction

Department:

Engineering & Public Works
  • Engineering Services

Estimated Gross Cost:

$2,995,847

Funding Sources:

<table>
<thead>
<tr>
<th>Grants/Recoveries</th>
<th>Loans</th>
<th>Gas Tax</th>
<th>Development Charges</th>
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<tr>
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<td>$766,666</td>
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</table>

PROJECT DESCRIPTION:

The project includes the full reconstruction of McKellar Street for its full length from Metcalfe Street to Carroll Street including Storm, Sanitary, Water, Road, Sidewalk and Cycling Lane facilities.

The project was successful in obtaining grants from the Clean Water and Wastewater Fund announced in the spring of 2017. In addition, further grant funding from OCIF is being applied to the Cycling Lane works. The design of the project is underway and the construction phase is to be completed in 2018.

The project was compiled in three sections. The funding allocation per section is detailed below:
  • Phase 1a  Metcalfe to Dell – original scope in 2017 budget
  • Phase 1b  Addition of Burns and Dell St sewers and cycling lanes
  • Phase 2  Extension to complete street from Dell to Carroll Street

<table>
<thead>
<tr>
<th>Sub-Project</th>
<th>Total</th>
<th>Grants</th>
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CAPITAL PROJECT FOR 2018

Project Name:

Princess Street Reconstruction
Storm Sewer Separation (2017 WIP)

Department:

Engineering & Public Works
- Roads Services

Estimated Gross Cost:

$175,000

Funding Sources:

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<th>Grants/Recoveries</th>
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PROJECT DESCRIPTION:

The project includes the final asphalt restoration and sidewalk installation works for the Princess Street project that were postponed to 2018.

The Princess Street storm sewer separation project was undertaken in 2016 and continued in 2017 to alleviate flooding and sanitary sewer backup issues from the combined sewer. The underground works and most of the surface restorations were completed. The project was originally funded in part through a grant from the Ontario Community Infrastructure Fund (OCIF).

The 2018 budget covers the remaining "Work In Progress" (2017 WIP) and is Roads related to be funded from taxation.
CAPITAL PROJECT FOR 2018

Project Name: Ellor Street Reconstruction
Storm Sewer Separation (2017 WIP)

Department:
Engineering & Public Works
- Roads Services

Estimated Gross Cost: $60,000

Funding Sources:

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<th>Grants/Recoveries</th>
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PROJECT DESCRIPTION:

The project includes the final asphalt restoration works for the Ellor Street project that were postponed to 2018.

The Ellor Street storm sewer separation project was undertaken in 2017 to alleviate flooding and sanitary sewer backup issues from the combined sewer. The underground works and most of the surface restorations were completed.

The 2018 budget covers the remaining “Work In Progress” (2017 WIP) and is Roads related to be funded from taxation.
CAPITAL PROJECT FOR 2018

Project Name:
Mount Brydges WWTP
Roof Maintenance

Department:
Engineering & Public Works
- Wastewater Services

Estimated Gross Cost:
$10,000

Funding Sources:

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<thead>
<tr>
<th>Grants/Recoveries</th>
<th>Loans</th>
<th>Gas Tax</th>
<th>Development Charges</th>
<th>User Fees</th>
<th>Taxes</th>
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<td></td>
<td>$10,000</td>
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</tbody>
</table>

PROJECT DESCRIPTION:

The project includes preventative maintenance and minor repairs to the roof of the Mount Brydges Wastewater Treatment Plant.

The treatment plant was constructed in 2011. As part of the ongoing inspection and maintenance programs, some minor repairs and preventative maintenance items have been identified. Ongoing timely maintenance will protect the asset investment.
CAPITAL PROJECT FOR 2018

Project Name:
Water Tower Upgrades (2017 WIP)  
Strathroy & Mount Brydges

Department:
Engineering & Public Works  
• Water Services

Estimated Gross Cost:
$45,000

Funding Sources:

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<th>Grants/Recoveries</th>
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<th>Gas Tax</th>
<th>Development Charges</th>
<th>User Fees</th>
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</tbody>
</table>

PROJECT DESCRIPTION:

The project includes a carryover of 2017 Work In Progress (WIP) for upgrading the Security, Rescue and Fall Arrest systems. The works are also expanded to include power washing of the outside of the Strathroy Tower.

The Ministry of Environment and Energy have noted in recent inspection reports under best practices that a defined inspection program should be in place for all reservoirs and water towers. The reservoirs and water towers were inspected in 2016 and several upgrades were noted for the Strathroy and Mount Brydges Tower to bring them up to the current standard. The upgrades specifically dealt with Security, Rescue and Fall Arrest improvements. Upon undertaking the works in 2017, the updates to the Fall Arrest system were more extensive than anticipated due to changes in safety regulations and the works were postponed to 2018.
CAPITAL PROJECT FOR 2018

Project Name:

**Sewage Pump Station Upgrades**  
**Park Street Strathroy**

Department:

**Engineering & Public Works**  
- Wastewater Services

Estimated Gross Cost:

$250,000

Funding Sources:

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<th>Grants/Recoveries</th>
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<th>Development Charges</th>
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<td></td>
<td></td>
<td></td>
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</table>

PROJECT DESCRIPTION:

The project is a major rehabilitation initiative for the 50 year old Park Street Pump Station.

The Park Street Pump Station was constructed in 1977 and is in poor condition. It is proposed that the wet well be relined, and all interior components be replaced. To preserve the metal chamber structure, sacrificial anodes would also be installed to guard against continued corrosion.

This is a complicated project in that 3 sewer lines discharge to this pump station. Therefore, external pumping will be required which will require significant co-ordination while the wet well work is being completed.

The pump station is located on a front lawn in close proximity to a walkway. The work area will be very limited which may result in the need to close the walkway as well as encroach on the Park/Burns intersection in order to complete this project.
CAPITAL PROJECT FOR 2018

Project Name:

| Pump Station Upgrades | Albert Street Strathroy (2017 WIP) |

Department:

<table>
<thead>
<tr>
<th>Engineering &amp; Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Wastewater Services</td>
</tr>
</tbody>
</table>

Estimated Gross Cost:

| $175,000 |

Funding Sources:

<table>
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<tr>
<th>Grants/Recoveries</th>
<th>Loans</th>
<th>Gas Tax</th>
<th>Development Charges</th>
<th>User Fees</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>$175,000</td>
<td></td>
</tr>
</tbody>
</table>

PROJECT DESCRIPTION:

The project is a carryover of 2017 Work In Progress (2017 WIP) for the replacement of Pump #2 at the Albert Street Sewage Pump Station.

The sewage pump station has three pumps, two of which are approximately 38 years old and were previously retrofitted about 10 years ago. The retrofits converted the two older pumps from a “wet seal” configuration to “mechanical seal” pumps. Repeated annual failures of these older pumps have prompted the need for the replacement of the pumps.

The project includes the replacement of pump #2. This pump failed twice in 2016 and has been taken out of service. Its replacement is necessary to provide adequate back up and redundancy in the station. The pump was purchased and delivered to the station in 2016. A tender for the installation of the pump was prepared by BM Ross and is ready for tendering.

The works are funded from the Wastewater Rates. These capital upgrading works are eligible under the Adelaide-Metcalfe/Strathroy-Caradoc Servicing Agreement and are a 15% contribution from Adelaide-Metcalfe was collected. The 2017 project budget was $275,000. Following the purchase of the pump, the carryover cost of $175,000 is included in the 2018 forecast.
CAPITAL PROJECT FOR 2018

Project Name:
Tar and Chip Resurfacing

Department:
Engineering & Public Works
  • Roads Services

Estimated Gross Cost:
$425,000

Funding Sources:

<table>
<thead>
<tr>
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<td>$16,308</td>
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</tr>
</tbody>
</table>

Project Description:

The project includes hard surface road habitation “Tar and Chip” works on rural roads.

The amount of works that will be completed is dependent upon the tendered prices, volume of other related repairs such as base stabilization or shoulder restorations. The approximate cost for tar and chip is $20,000 per kilometre. As well, the listed works are proposed subject to the “Spring Break Up” and changes in needs that may arise.

The targeted works are shown in a prioritized list below:

1. **Emergency repairs from the Spring Break Up that may arise**
2. McEvoy Road Olde Drive to Glengyle Drive
3. Walkers Road McEvoy Road to End
4. Burwell Road Wightman Drive to Muncey Road
5. Falconbridge Dr Adelaide Road (#81) to Springwell Road
6. Springwell Road Glendon Drive (#14) to Falconbridge Drive
7. Cooks Road Giles Bridge to Wightman Drive
**CAPITAL PROJECT FOR 2018**

**Project Name:**

Asphalt Resurfacing

**Department:**

Engineering & Public Works
- Roads Services

**Estimated Gross Cost:**

$225,000

**Funding Sources:**

<table>
<thead>
<tr>
<th>Grants/Recoveries</th>
<th>Loans</th>
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<th>Development Charges</th>
<th>User Fees</th>
<th>Taxes</th>
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<tbody>
<tr>
<td>$192,943</td>
<td>$16,308</td>
<td>$15,750</td>
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</tbody>
</table>

**PROJECT DESCRIPTION:**

The project includes asphalt roadway restoration works including curb repairs, drop curb and sidewalk ramp repairs, iron works resetting, milling and paving as required. The surface rehabilitation works extend the life of the roadway for approximately 25 years.

The approximate cost to mill and pave is $125 per m²

The following roadway sections are proposed in priority listing. The full extent of works completed will be dependent upon the actual tendered price and amount of various repairs needed in these areas.

1. Oak Avenue    Burns to Carroll Streets (approximately 820 metres)
2. Railway Avenue Richmond to Oxford Streets (approximately 150 metres)
3. Maple Street   Drury Lane to Dominion Street (approximately 370 metres)

Location Maps attached
CAPITAL PROJECT FOR 2018

Project Name:

Sidewalk Program

Department:

Engineering & Public Works
- Roads Services

Estimated Gross Cost:

$140,000

Funding Sources:

<table>
<thead>
<tr>
<th>Grants/Recoveries</th>
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<th>Gas Tax</th>
<th>Development Charges</th>
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<td>$70,000</td>
<td>$70,000</td>
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</table>

PROJECT DESCRIPTION:

The project includes works to replace, repair and/or install concrete sidewalks.

The full extent of works completed will be dependent upon tendered prices and the extent of other related works needed. Included in the works are excavation, concrete removals, topsoil and sod/seeding restorations, drop curb adjustments and the concrete sidewalk installation. The cost of the concrete works for sidewalks is approximately $70 per metre.

The 2017 allocation of $70,000 is carried forward (shown as a “recovery”) to 2018 to be used as an initial phase of interlocking brick sidewalks per the Downtown Master Plan. Works to be consistent with the Caradoc Street reconstruction project restorations.

The anticipated works for 2018 are listed below:

<table>
<thead>
<tr>
<th>Strathroy</th>
<th>Mount Brydges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drury Lane</td>
<td>Bowman Street West</td>
</tr>
<tr>
<td>Parkview Crescent</td>
<td>Helen Street</td>
</tr>
<tr>
<td>Bella Street</td>
<td>Adelaide Street</td>
</tr>
<tr>
<td>Canaan Street</td>
<td>King Street</td>
</tr>
<tr>
<td>Oak Avenue</td>
<td>John Street</td>
</tr>
<tr>
<td>Downtown (2017 WIP)</td>
<td>Glendon Drive</td>
</tr>
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</table>

Melbourne requires county road sidewalk sections to be repaired as well.

Location Maps attached
<table>
<thead>
<tr>
<th>Description</th>
<th>Sidewalks</th>
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</thead>
<tbody>
<tr>
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Prepared By: Strathroy-Caradoc
Description: Sidewalks
File Number:
Created By:
Date: 1/19/2017
Scale: 1:2,257

Legend

Citations

Prepared By: Strathroy-Caradoc
CAPITAL PROJECT FOR 2018

Project Name:
Streetlight Upgrades

Department:
Engineering & Public Works
  • Roads Services

Estimated Gross Cost:
$76,000

Funding Sources:

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<th>Grants/Recoveries</th>
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<td>$40,000</td>
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<td>$36,000</td>
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</tbody>
</table>

PROJECT DESCRIPTION:

The project includes the replacement of streetlight (illumination) poles.

The 2017 program allocation is carried forward (shown in recoveries) to complete works recommended by Entegrus. In addition, the 2018 allocation will be used to replace older “pole trans” which are poles that contain an internal transformer that is no longer in use.

The proposed work of the combined two year allocation is:

1. Illumination poles on Helen, Maple and Frank Streets (approximately 18 poles)
2. Pole Trans on Riverview Drive (approximately 16 “pole trans”)