This document is consolidated into a single publication for the convenience of users. The Official Bylaw and all amendments thereto are available from the Legislative Services Department and should be consulted in interpreting and applying this Bylaw. In the case of any dispute, the original Bylaw and amendments must be consulted.

## BYLAW 1548/21 STURGEON INDUSTRIAL PARK AREA OFF-SITE LEVY BYLAW STURGEON COUNTY, MORINVILLE, ALBERTA

A BYLAW OF STURGEON COUNTY, IN THE PROVINCE OF ALBERTA FOR THE PURPOSE OF ESTABLISHING OFF-SITE LEVIES FOR LAND THAT IS TO BE SUBDIVIDED OR DEVELOPED WITHIN THE STURGEON INDUSTRIAL PARK AREA.

WHEREAS, section 648 of the *Municipal Government Act*, RSA 2000, c M-26, as amended (the MGA), provides that a Council of a municipality may enact a bylaw to provide for the imposition and payment of Off-Site Levies in respect to lands that are to be developed or subdivided and to authorize agreements to be entered into in respect of the payment of those levies;

**AND WHEREAS,** the Council of Sturgeon County deems it necessary to establish Off-Site Levies to pay for the capital costs of new and expanded roads, for new or expanded water and wastewater facilities, and for new or expanded stormwater facilities, and the land required in connection with those facilities, all of which will be required as a result of anticipated subdivision and development within the Sturgeon Industrial Park Area;

**AND WHEREAS,** Sturgeon County has and continues to consult in good faith with affected landowners and representatives of the development industry in order to address and define existing and future infrastructure and facility requirements within the Sturgeon Industrial Park Area and the benefit to new development from such infrastructure and facilities;

**AND WHEREAS,** the Council of Sturgeon County has received advice and reports respecting existing and future infrastructure and facility requirements within the Sturgeon Industrial Park Area and the benefit to new development from such infrastructure and facilities, which advice and reports set out a fair and equitable calculation of Off-Site Levies in relation to benefit, in accordance with the purpose of the MGA and the principles of the *Off-Site Levies Regulation*, Alta Reg 187/2017;

AND WHEREAS, notice of intention to pass this bylaw has been given in accordance with the MGA;

**NOW THEREFORE**, the Council of Sturgeon County, in the Province of Alberta, duly assembled, hereby enacts as follows:

#### **PART I: BYLAW TITLE**

1. This bylaw may be cited as the "Sturgeon Industrial Park Area Off-Site Levy Bylaw".

#### **PART II: DEFINITIONS**

- 2. For the purposes of this bylaw the following words will have the following meanings:
  - a. "Act" or "MGA" means the Municipal Government Act, RSA 2000, c M-26, as amended.
  - b. "Benefitting Area" means each of the 29 areas within the Off-Site Levy Area that will benefit from Off-Site Infrastructure, as more specifically identified in Schedule "A" to this bylaw.

- c. "Bylaw" means this off-site levy bylaw.
- d. "County Commissioner" means the Chief Administrative Officer of Sturgeon County; "County" means Sturgeon County.
- e. "Council" means the Council of Sturgeon County.
- f. "Construction Cost" means the capital cost, incurred or as estimated and adjusted annually by the Engineer, to complete the construction of the Off-Site Infrastructure and all necessary improvements forming part of the Off-Site Infrastructure. Construction costs shall include design, engineering, land costs, surveying costs, contingency costs and carrying costs. Estimated Construction Costs and Actual Construction Costs must be verified to the satisfaction of the Engineer.
- g. "Developable Land" means the area of land, in hectares, within the Off-Site Levy Area being developed or subdivided, excluding land designated as municipal reserve, environmental reserve, school reserve, road right-of-way for arterial roadways, and any land owned by a school board that is to be developed for a special building project within the meaning of the *Education Act*, SA 2012, c E-0.3.
- h. "Development Agreement" means an agreement entered into as a condition of subdivision approval or a development permit between the County and the applicant for subdivision approval or a development permit that provides for the construction of municipal improvements required to service the lands and to allow development to proceed.
- i. "Development Permit" means a permit issued in accordance with the Sturgeon County Land Use Bylaw by a Development Authority for the County or the Subdivision and Development Appeal Board.
- j. "Engineer" means the County Commissioner or his/her delegate.
- k. "Off-Site Infrastructure" means:
  - i. new or expanded facilities for the storage, transmission, treatment or supplying of water;
  - ii. new or expanded facilities for the treatment, movement or disposal of wastewater;
  - iii. new or expanded stormwater drainage facilities,
  - iv. new or expanded roads required for or impacted by a subdivision or development; and
  - v. land required for or in connection with any of the above-described facilities.
- I. "Off-Site Levy" means the levy imposed on lands within the Off-Site Levy Area payable to the County upon entering into a Development Agreement as a contribution towards the Construction Cost of the Off-Site Infrastructure.

m. "Off-Site Levy Area" means those lands within the Sturgeon Industrial Park Area as shown in Schedule "A" to this bylaw.

n. "Off-Site Levy Regulation" means the *Off-Site Levies Regulation*, Alta Reg 187/2017, as amended or repealed and replaced from time to time.

#### **PART III: APPLICATION**

- 3. An Off-Site Levy is hereby imposed and shall be collected in respect of all Developable Land within the Off-Site Levy Area as shown in Schedule "A" to this bylaw, which lands respectively benefit from one or more of the Off-Site Infrastructure facilities installed or to be installed by the County.
- 4. The Off-Site Levy payable shall be the sum of all the Off-Site Levies imposed upon the Developable Land within the relevant Benefitting Area for each of the following Off-Site Infrastructure facilities:
  - a. Transportation Infrastructure;
  - b. Water Infrastructure;
  - c. Sanitary (Wastewater) Infrastructure; and
  - d. Stormwater Infrastructure;

multiplied by the area of Developable Land, in hectares, using the Off-Site Levy rates set out in Schedule "B" to this bylaw.

- 5. Off-Site Levies are deemed imposed whether or not the imposition of Off-Site Levies is made a specific condition of subdivision approval or the development permit.
- 6. Applicants for subdivision approval or the issuance of a development permit in relation to lands within the Off-Site Levy Area shall be required to enter into a Development Agreement with the County as a condition of subdivision approval or the development permit requiring, among other things, payment of the Off-Site Levy.
- 7. The Developable Land in respect of which the Off-Site Levy is being imposed and collected shall be identified in the subdivision approval or development permit.
- 8. The supporting technical information which identifies the impact of proposed subdivision and development within the Off-Site Levy Area and each Benefitting Area, estimates the Construction Costs of the Off-Site Infrastructure and identifies how the Off-Site Levy is calculated is contained in the Sturgeon Industrial Park: 2021 Off-Site Levy Update, dated March 1, 2021, prepared by Corvus Business Advisors, attached as Schedule "C" to this bylaw.
- 9. On or before May 31 in each calendar year, the County shall prepare a written report, which report shall be made publicly available in its entirety, on the Off-Site Levies and shall include in the report the details of all Off-Site Levies received and utilized for each of the Off-Site Infrastructure facilities within the Off-Site Levy Area and each Benefitting Area, including:

- a. Off-Site Infrastructure constructed during the previous calendar year;
- b. Construction Costs of the Off-Site Infrastructure;
- c. Amounts paid from the Off-Site Levies towards Construction Costs for the Off-Site Infrastructure and details as to whom the payments have been made;
- d. Estimated Construction Costs for the Off-Site Infrastructure yet to be constructed and an explanation as to any adjustments to the estimates since the previous annual report;
- e. Details as to the amounts collected in Off-Site Levies;
- f. The total value of Off-Site Levies held by the County which are yet to be expended, including the amount of interest earned and information regarding any commitments made for the expenditure of Off-Site Levies that have not yet been paid out; and
- g. Information regarding any changes to the assumptions related to the staging or timing of development and the projected construction date for the Off-Site Infrastructure.
- 10. Any Off-Site Levies collected under this bylaw, and any interest earned from the investment of such Off-Site Levies, shall be accounted for separately for each of the Off-Site Infrastructure facilities and must be used only for the specific type of Off-Site Infrastructure facility for which it was collected or for land required for or in connection with that purpose.
- 11. The County shall review the Off-Site Infrastructure and the Off-Site Levy rates every three years after the year this bylaw is adopted or as otherwise determined by the Engineer. After the review has been completed, Council may amend the bylaw to update the Off-Site Infrastructure and the Off-Site Levy rates.
- 12. Except as otherwise provided herein, each Development Agreement entered into by the County with respect to any subdivision approval or development permit shall make provision for payment of all Off-Site Levies imposed by this bylaw within the times specified by County policy or guideline, as amended from time to time.
- 13. In the event that any of the Off-Site Levies imposed by this bylaw are not paid at the time specified in a Development Agreement, the County Commissioner is or designate hereby authorized to take whatever action deemed necessary to collect the unpaid Off-Site Levies.
- 14. No Off-Site Levies shall be required to be paid where Off-Site Levies have been previously collected in respect of the Developable Lands for the same type of Off-Site Infrastructure facility.
- 15. Except as otherwise provided herein, a Development Agreement entered into by the County with respect to any subdivision approval or development permit may require the applicant to fund the entire Construction Cost of an Off-Site Infrastructure facility to be funded by the Off-Site Levy, subject to terms and conditions agreed to by both parties, including but not limited to, provisions for the reimbursement of the cost incurred or payment made in excess of the applicant's proportional benefit of the Off-Site Infrastructure, together with interest calculated at a rate fixed by the County for the amount of the cost of the Off-Site Infrastructure, until all land in the Benefitting Area for the specific Off-Site Infrastructure is developed or subdivided.

1. Council may from time to time adopt policies or guidelines for the assistance and direction of County Administration in determining when an applicant for subdivision approval or a development permit may be required to fund the entire Construction Cost of an Off-Site Infrastructure facility to be funded by the Off-Site Levy.

2. Nothing contained in this bylaw precludes the County from imposing such further or other charges, costs, fees, or levies as may be lawfully authorized.

PART IV: SEVERABILITY

3. If any portion of this Bylaw is declared invalid by a court of competent jurisdiction, then the invalid portion must be severed and the remainder of the Bylaw is deemed valid.

PART V: ENACTMENT

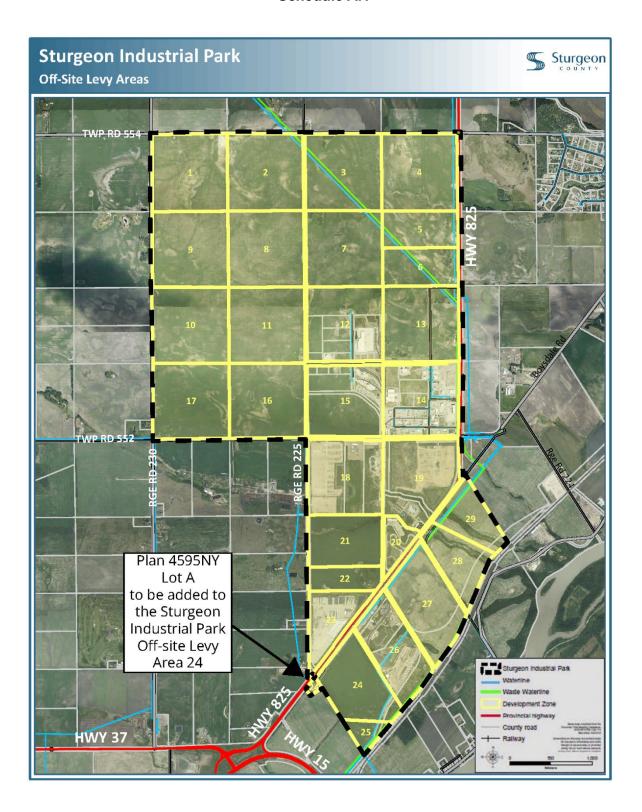
- 4. Bylaw 1445/19 and any amendments are repealed upon this bylaw coming into force and effect.
- 5. This Bylaw shall come into force and take effect upon being passed.

NOTE: Consolidation created under Section 69 of the *Municipal Government Act*, RSA 2000, C.M-26 and Bylaw 1473/20, printed under the authority of Legislative Services.

Bylaw 1650/24, adopted by Council May 28, 2024.

BYLAW 1650/24 PAGE 3

Schedule A.1



Schedule "B"

Summary of Off-Site Levy Rates by Area (Per Net Hectare)

| Area # | Transportation<br>Levies |      | Water<br>Levies | Sanitary<br>Levies | Stormwater<br>Levies | Total |        |  |  |
|--------|--------------------------|------|-----------------|--------------------|----------------------|-------|--------|--|--|
| 1.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>-            | \$<br>3,491          | \$    | 50,248 |  |  |
| 2.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>2,145        | \$<br>3,491          | \$    | 52,393 |  |  |
| 3.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>2,145        | \$<br>3,491          | \$    | 52,393 |  |  |
| 4.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>-            | \$<br>3,491          | \$    | 50,248 |  |  |
| 5.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>-            | \$<br>3,491          | \$    | 50,248 |  |  |
| 6.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>-            | \$<br>-              | \$    | 46,757 |  |  |
| 7.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>2,145        | \$<br>3,491          | \$    | 52,393 |  |  |
| 8.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>8,260        | \$<br>3,491          | \$    | 58,508 |  |  |
| 9.0    | \$ 27,33                 | 7 \$ | 19,421          | \$<br>5,266        | \$<br>3,491          | \$    | 55,514 |  |  |
| 10.0   | \$ 27,33                 | 7 \$ | 20,276          | \$<br>5,266        | \$<br>1,484          | \$    | 54,363 |  |  |
| 11.0   | \$ 27,33                 | 7 \$ | 20,276          | \$<br>5,266        | \$<br>1,484          | \$    | 54,363 |  |  |
| 12.0   | \$ 27,33                 | 7 \$ | 17,681          | \$<br>2,415        | \$<br>1,484          | \$    | 48,917 |  |  |
| 13.0   | \$ 27,33                 | 7 \$ | 17,681          | \$<br>-            | \$<br>-              | \$    | 45,017 |  |  |
| 14.0   | \$ 27,33                 |      | 17,681          | \$<br>-            | \$<br>-              | \$    | 45,017 |  |  |
| 15.0   | \$ 27,33                 | 7 \$ | 9,825           | \$<br>2,415        | \$<br>1,484          | \$    | 41,061 |  |  |
| 16.0   | \$ 27,33                 | 7 \$ | 12,420          | \$<br>5,266        | \$<br>1,484          | \$    | 46,507 |  |  |
| 17.0   | \$ 27,33                 | 7 \$ | 12,420          | \$<br>5,266        | \$<br>1,484          | \$    | 46,507 |  |  |
| 18.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>-            | \$<br>1,484          | \$    | 52,082 |  |  |
| 19.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>-            | \$<br>-              | \$    | 50,597 |  |  |
| 20.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>10,438       | \$<br>-              | \$    | 61,035 |  |  |
| 21.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>10,438       | \$<br>-              | \$    | 61,035 |  |  |
| 22.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>10,438       | \$<br>-              | \$    | 61,035 |  |  |
| 23.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>10,438       | \$<br>-              | \$    | 61,035 |  |  |
| 24.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>9,365        | \$<br>-              | \$    | 59,962 |  |  |
| 25.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>9,365        | \$<br>-              | \$    | 59,962 |  |  |
| 26.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>9,365        | \$<br>-              | \$    | 59,962 |  |  |
| 27.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>15,208       | \$<br>-              | \$    | 65,805 |  |  |
| 28.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>-            | \$<br>-              | \$    | 50,597 |  |  |
| 29.0   | \$ 27,33                 | 7 \$ | 23,261          | \$<br>_            | \$<br>-              | \$    | 50,597 |  |  |



# **Sturgeon Industrial Park: 2021 Offsite Levy Update**

March 1<sup>st</sup>, 2021

# Prepared by:

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March 1st, 2021

Sturgeon County 9613 – 100 Street Morinville, Alberta T8R 1L9

# RE: Sturgeon Industrial Park 2021 Offsite Levy Update

Enclosed is our report in support of the Sturgeon Industrial Park 2021 offsite levy rate update. If you have any questions do not hesitate to contact me.

Sincerely,

Greg Weiss President

# 1 DOCUMENT INFORMATION

| Version<br>Number | Revision Date   | Summary of Changes and Author               |
|-------------------|-----------------|---|
| 1.0               | March 1st, 2021 | FINAL. Created by CORVUS Business Advisors. |
|                   |                 |   |
|                   |                 |   |

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#### 3 INTRODUCTION

#### 3.1 Overview

Bylaw 1445-19, established by Sturgeon County ("the County") in 2019 defines offsite levy charges for transportation, water, sanitary, and stormwater offsite infrastructure in the Sturgeon Industrial Park. The County wishes to update this bylaw, amending offsite infrastructure included in the bylaw in alignment with the County's recent actual expenditures, receipts, latest capital/master plans, and ensuring updated costs and development forecasts are reflected fairly and equitably in new rates, thereby ensuring a financially sustainable community.

This report outlines the methodology and information used in establishing updated transportation, water, sanitary, and stormwater offsite levy rates for the Sturgeon Industrial Park.

### 3.2 Methodology

The County has various infrastructure capital/master plans, and these plans have been used by County staff as a start point for developing key information for this offsite levy review. County staff reviewed existing plans and verified offsite projects for roads, water, sanitary, and drainage infrastructure<sup>1</sup>. The County's review also included verification of benefits to existing development, future development, and benefiting areas.

Support provided by CORVUS Business Advisors ("CORVUS") included:

- Update of the offsite levy model—configuration, priming, and data loading.
- Incorporation of area measurements and land development forecasts (provided by County staff).
- Incorporation of infrastructure costs and allocation percentages for existing development, new development, and other parties (provided by County staff).
- Reconciliation of reserve opening balances (historical reconciliation details provided by County staff).
- Determination of transportation, water, sanitary, and stormwater levy rates.
- Presentation of results to Administration.

Offsite levy rates within the CORVUS model are forecast using a rolling 25-year review period. During this review, a cut-off date of December 31<sup>st</sup>, 2020 was established, and so the review period stems from **2021 to 2045**. The cut-off date coincides with the County's most recent year-end when the project started. Project expenditures, receipts etc. were gathered as "actuals" from the County's financial records up to the cut-off date. Beyond the cut-off date, all financial details are estimates. When the County completes its next rate

<sup>&</sup>lt;sup>1</sup> It was not within CORVUS' scope of work to review the County's capital/master plans. Plans were reviewed and refined by County staff.

update, information from January 1<sup>st</sup>, 2021 up to the new cut-off date will be converted from estimates to actuals, and the rolling 25-year review period will move further out.

Costs that benefit development prior to and within the 25-year review period are included in rates. Costs that benefit development beyond the review period (called "financial oversizing") are excluded from rates. In future years, when rates are updated and the rolling 25-year period moves further out, offsite infrastructure costs beyond 2045 will gradually be included in rates.

#### 4 KEY FINDINGS

The following provides a summary of key findings pertaining to the updating of Sturgeon Industrial Park offsite levy rates:

**Offsite Infrastructure Costs**. Offsite infrastructure costs to be included in the offsite levy bylaw total approximately **\$122.89 million**. An overview of offsite infrastructure costs and maps is provided in Appendices B1 (Transportation), C1 (Water), D1 (Sanitary), and E1 (Stormwater); and a definition of each offsite infrastructure type is provided in Appendix F.

Before determining how the infrastructure costs will be allocated to parties that benefit (e.g., existing/residual development, future development, other municipalities etc.), financing provided by way of special ear-marked grants and other contributions are deducted from offsite infrastructure costs. For this review, the County has identified approximately **\$8.01 million** in ear-marked grants and contributions. An overview of ear-marked grants and contributions and resulting net costs is provided in Appendices B2, C2, D2, and E2.

The share of costs which benefits existing/residual development (the County's share) is **\$19.49 million**; and, the share of costs which benefits other stakeholders (e.g., neighbouring municipalities) is **\$0.00**.

The share of costs which benefits future development totals approximately \$95.39 million (\$55.08 million + \$40.31 million) and is based on the allocations shown in Appendices B4, C4, D4, and E4. However, \$55.08 million of the cost which benefits future development is beyond the 25-year review period (called "financial oversizing"). Financial oversizing is determined based on the anticipated year of construction (construction staging) which is provided in Appendices B3, C3, D3, and E3.

Of the \$95.39 million in total offsite infrastructure costs which benefits future development, the portion that is within the 25-year review period and included in rates today (the offsite levy share) is approximately \$40.31 million, as shown in the table below. This is an increase of approximately 9% since the last update. An increase in costs puts upward pressure on rates, all other things being equal. A complete summary of offsite infrastructure net cost "flow-thru" is provided in Appendices B6, C6, D6, and E6.

| Intrastructure |    | ecial Grants<br>Contributions | uni Share of<br>Costs | Other<br>Stakeholders'<br>Share of Costs |   |    | veloper Cost<br>eyond 25 Yrs<br>(Financial<br>Oversizing) | Developer<br>Costs<br>(In Rates) | Total Costs       |
|----------------|----|-------------------------------|-----------------------|--|---|----|---|----------------------------------|-------------------|
| Transportation | \$ | 7,249,294                     | \$<br>13,989,696      | \$                                       | - | \$ | 33,276,651  | \$<br>22,632,132                 | \$<br>77,147,773  |
| Water          | \$ | -                             | \$<br>5,505,053       | \$                                       | - | \$ | 12,547,227  | \$<br>12,779,526                 | \$<br>30,831,806  |
| Sanitary       | \$ | 475,680                       | \$<br>-               | \$                                       | - | \$ | 7,015,093   | \$<br>3,639,831                  | \$<br>11,130,604  |
| Stormwater     | \$ | 286,965                       | \$<br>-               | \$                                       | - | \$ | 2,237,211   | \$<br>1,260,426                  | \$<br>3,784,602   |
| Total          | \$ | 8,011,939                     | \$<br>19,494,749      | \$                                       | - | \$ | 55,076,182  | \$<br>40,311,915                 | \$<br>122,894,786 |

Offsite Levy Collections. Before allocating infrastructure costs to benefitting lands, offsite levy costs must be reduced by the total levies collected to date. Up to **December 31**<sup>st</sup>, **2020**, the County collected approximately **\$7.99 million** in offsite levies as summarized in the table below. Details associated with levy collections are shown in Appendices B5, C5, D5, and E5.

#### Summary of Levies Collected to Date

| Levies Collected To Date |    |           |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|----|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Transportation           | \$ | 5,569,994 |  |  |  |  |  |  |  |  |  |  |  |
| Water                    | \$ | 1,474,328 |  |  |  |  |  |  |  |  |  |  |  |
| Sanitary                 | \$ | 639,234   |  |  |  |  |  |  |  |  |  |  |  |
| Stormwater               | \$ | 302,769   |  |  |  |  |  |  |  |  |  |  |  |
| Total                    | \$ | 7,986,325 |  |  |  |  |  |  |  |  |  |  |  |

**Offsite Levy Areas and Forecast Development**. To facilitate the allocation of infrastructure costs to those lands that benefit from the infrastructure, the Sturgeon Industrial Park is parsed into **29** offsite levy areas. The area boundaries, numbering schema, and area measurements are described in Appendix A along with an offsite levy map. An overview of offsite infrastructure allocations to each benefitting area is provided in Appendices B7, C7, D7, and E7.

To calculate offsite levy rates, it is necessary to forecast the amount of land that will develop during the 25-year review period. Land development forms the denominator of the rate calculation. A larger denominator reduces rates but could potentially result in undercollection thereby placing an increased burden on tax payers. A smaller denominator increases rates but could potentially result in over-collection thereby placing an increased burden on future development. Accordingly, land development forecasts need to be: (a) reasonable and reflect current planning assumptions including the current pace of development in the community, and (b) updated regularly.

For this review, the County is forecasting development of approximately **637 ha.** during the 25-year review period (the land development forecast is shown in Appendix A). This is an increase of approximately **6%** since the last update. An increase in land development puts downward pressure on rates, all other things being equal.

Offsite Levy Reserves. The County is currently managing offsite levy receipts and withdrawals in the Sturgeon Industrial Park via four accounts (i.e., one account for each infrastructure type), and this in alignment with MGA requirements. The reason the MGA stipulates the requirement for separate accounts is because offsite levies can only be used for the type of infrastructure for which they were collected (e.g., water levies can only be used to construct water offsite infrastructure, not sanitary infrastructure etc.). In addition to account updates, during this review County staff identified several amendments to historic account information. Accordingly, the County's offsite levy account balances require amendment as discussed further below and shown in Appendices B8, C8, D8, and E8.

**Interest.** Offsite levy account balances (both actual and forecast) are impacted by interest. Actual reserve inflows and forecast reserve balances that are in a positive/surplus position earn interest (as required by the MGA). Actual reserve outflows and forecast reserve balances that are in a negative/deficit position are charged interest (forecast balances that are negative indicate the requirement for front-ending). During this review, several amendments to interest calculations were identified. An overview of account adjustments is discussed further below, and interest rates and forecast balances over the 25-year review period are shown in Appendices B9, C9, D9, and E9.

**Front-ending Approach.** Front-ending is an extremely important concept that underpins rigorous management of offsite levies. Front-ending represents monies owed by future development to the front-ending party (municipality or developer) for past construction undertaken on behalf of future development—i.e., a front-ending party will often pay for its share of an offsite infrastructure project in addition to that portion of the project which benefits future development when offsite levy reserve balances are insufficient.

There are 2 alternatives for repaying front-ending debts to claimants: (1) the First-In First-Out (FIFO) approach, and (2) the Average Outstanding Claim (AOC) approach. The FIFO approach can create: (a) stagnation of development, and (b) increased pressure on the municipality (i.e., taxpayers) to front-end. Accordingly, in 2017 the County adopted the AOC approach as part of its broader offsite levy policy framework.

Under the <u>AOC</u> approach, claimants share distributions based on their proportionate share of outstanding claims. For example, Developer A fronts a \$1 million piece of infrastructure in 2016. Developer B front-ends a \$0.5 million piece of infrastructure in 2017. And Developer C is contemplating front-ending a \$0.5 million piece of infrastructure in the future. Using the AOC approach, offsite levy collections are shared between Developer A (66.6% of distributions) and Developer B (33.3% of distributions) until fully repaid<sup>2</sup>. If Developer C chooses to front-end in the future, then future claim reimbursements would be shared amongst Developer A (50% of distributions) and Developer B (25% of distributions) and Developer C (25% of distributions) until repaid<sup>3</sup>. This approach is preferred, as it ensures

 $<sup>^{2}</sup>$ \$1,000,000 / (\$1,000,000 + \$500,000) = **66.6%**. \$500,000 / (\$1,000,000 + \$500,000) = **33.3%**.

 $<sup>^3</sup>$  \$1,000,000 / (\$1,000,000 + \$500,000 + \$500,000) = **50%**. \$500,000 / (\$1,000,000 + \$500,000 + \$500,000) = **25%**.

regular positive cash flow to all claimants, and therefore no disincentive to future front-ending.

In the Sturgeon Industrial Park, it is our understanding that the County is the only frontending party currently. As such, all excess cash in reserve accounts should always be used to pay-down the County's front-ending debt (described below).

Offsite Levy Account Adjustments. At end 2020, County records for the <u>transportation</u> account reflected a surplus balance of \$1,062,928. However, after adjustments and frontending claim repayments, the balance in the transportation account should be amended to reflect a deficit of approximately \$(2,352,390) at end 2020. A complete reconciliation of the transportation account balance is provided in Appendix B8.

At end 2020, County records for the <u>water</u> account reflected a surplus balance of **\$705,399**. However, after adjustments and front-ending claim repayments, the balance in the water account should be amended to a deficit of approximately **\$(4,986,254)** at end 2020. A complete reconciliation of the water account balance is provided in Appendix C8.

At end 2020, County records for the <u>sanitary</u> account reflected a surplus balance of **\$1,071,617**. However, after adjustments and front-ending claim repayments, the balance in the sanitary account should be amended to a deficit of approximately **\$(2,530,709)** at end 2020. A complete reconciliation of the sanitary account balance is provided in Appendix D8.

At end 2020, County records for the <u>stormwater</u> account reflected a surplus balance of **\$219,593**. However, after adjustments and front-ending claim repayments, the balance in the stormwater account should be amended to a surplus of approximately **\$232,505** at end 2020. A complete reconciliation of the stormwater account balance is provided in Appendix E8.

#### **5 RATE UPDATES**

For future development to pay for its share of the **\$122.89 million** offsite infrastructure costs contained in the County's capital plans for the Sturgeon Industrial Park, rates are approximately **\$52,462** per net hectare on a weighted average basis, as shown in the tables below. A comparison of rates to other municipalities is shown in Appendix G.

Rates are decreasing slightly from an average of approximately \$53,291 per net hectare (contained in the current bylaw) to an average of \$52,462 per net hectare.

# Offsite Levy Rates (Per Net Hectare): High, Low, & Averages 4

|                  | Transportation<br>Levies |        | ,  | Water Levies | S  | Sanitary Levies | Storm Levies | Total        |
|------------------|--------------------------|--------|----|--------------|----|-----------------|--------------|--------------|
| High             | \$                       | 27,337 | \$ | 23,261       | \$ | 15,208          | \$<br>3,491  | \$<br>69,296 |
| Low              | \$                       | 27,337 | \$ | 9,825        | \$ | -               | \$<br>=      | \$<br>37,162 |
| Weighted Average | \$                       | 27,337 | \$ | 18,633       | \$ | 5,232           | \$<br>1,262  | \$<br>52,462 |

#### Summary of Offsite Levy Rates by Area (Per Net Hectare)

|        |                       |                 |                    | •                    |           |
|--------|-----------------------|-----------------|--------------------|----------------------|-----------|
| Area # | Transportation Levies | Water<br>Levies | Sanitary<br>Levies | Stormwater<br>Levies | Total     |
| 1.0    | \$ 27,337             | \$ 19,421       | \$ -               | \$ 3,491             | \$ 50,248 |
| 2.0    | \$ 27,337             | \$ 19,421       | \$ 2,145           | \$ 3,491             | \$ 52,393 |
| 3.0    | \$ 27,337             | \$ 19,421       | \$ 2,145           | \$ 3,491             | \$ 52,393 |
| 4.0    | \$ 27,337             | \$ 19,421       | \$ -               | \$ 3,491             | \$ 50,248 |
| 5.0    | \$ 27,337             | \$ 19,421       | \$ -               | \$ 3,491             | \$ 50,248 |
| 6.0    | \$ 27,337             | \$ 19,421       | \$ -               | \$                   | \$ 46,757 |
| 7.0    | \$ 27,337             | \$ 19,421       | \$ 2,145           | \$ 3,491             | \$ 52,393 |
| 8.0    | \$ 27,337             | \$ 19,421       | \$ 8,260           | \$ 3,491             | \$ 58,508 |
| 9.0    | \$ 27,337             | \$ 19,421       | \$ 5,266           | \$ 3,491             | \$ 55,514 |
| 10.0   | \$ 27,337             | \$ 20,276       | \$ 5,266           | \$ 1,484             | \$ 54,363 |
| 11.0   | \$ 27,337             | \$ 20,276       | \$ 5,266           | \$ 1,484             | \$ 54,363 |
| 12.0   | \$ 27,337             | \$ 17,681       | \$ 2,415           | \$ 1,484             | \$ 48,917 |
| 13.0   | \$ 27,337             | \$ 17,681       | \$ -               | \$ -                 | \$ 45,017 |
| 14.0   | \$ 27,337             | \$ 17,681       | \$ -               | \$ -                 | \$ 45,017 |
| 15.0   | \$ 27,337             | \$ 9,825        | \$ 2,415           | \$ 1,484             | \$ 41,061 |
| 16.0   | \$ 27,337             | \$ 12,420       | \$ 5,266           | \$ 1,484             | \$ 46,507 |
| 17.0   | \$ 27,337             | \$ 12,420       | \$ 5,266           | \$ 1,484             | \$ 46,507 |
| 18.0   | \$ 27,337             | \$ 23,261       | \$ -               | \$ 1,484             | \$ 52,082 |
| 19.0   | \$ 27,337             | \$ 23,261       | \$ -               | \$                   | \$ 50,597 |
| 20.0   | \$ 27,337             | \$ 23,261       | \$ 10,438          | \$ -                 | \$ 61,035 |
| 21.0   | \$ 27,337             | \$ 23,261       | \$ 10,438          | \$ -                 | \$ 61,035 |
| 22.0   | \$ 27,337             | \$ 23,261       | \$ 10,438          | \$ -                 | \$ 61,035 |
| 23.0   | \$ 27,337             | \$ 23,261       | \$ 10,438          | \$ -                 | \$ 61,035 |
| 24.0   | \$ 27,337             | \$ 23,261       | \$ 9,365           | \$ -                 | \$ 59,962 |
| 25.0   | \$ 27,337             | \$ 23,261       | \$ 9,365           | \$ -                 | \$ 59,962 |
| 26.0   | \$ 27,337             | \$ 23,261       | \$ 9,365           | \$ -                 | \$ 59,962 |
| 27.0   | \$ 27,337             | \$ 23,261       | \$ 15,208          | \$ -                 | \$ 65,805 |
| 28.0   | \$ 27,337             | \$ 23,261       | \$ -               | \$ -                 | \$ 50,597 |
| 29.0   | \$ 27,337             | \$ 23,261       | \$ -               | \$ -                 | \$ 50,597 |

<sup>&</sup>lt;sup>4</sup> Highs, Lows, and Averages are shown for information purposes only. Developers pay the actual rate applicable to their specific development area.

#### 6 RECOMMENDATIONS

In addition to implementing the offsite levy rates outlined in *Section 5*, CORVUS recommends the following:

- 1. <u>Amend the County account records and balances</u> to align with the account balances in the offsite levy model and described in Appendices B8, C8, D8, and E8; and in so doing, withdraw excess funds to pay down front-ending claims, or top-up account shortfalls as required.
- 2. Establish a <u>formal and regular communication and documentation process</u> between the Finance, Planning, and Engineering departments to enable the accurate documentation of offsite levy expenditure and front-ending details.
- 3. Limit future withdrawals from offsite levy accounts to <u>only that portion of project cost</u> for which future development is responsible (i.e., Project Cost X Developer Share %).
- 4. During the reconciliation of account balances in the future, ensure the <u>interest</u> earning and charge rates that underpin the offsite levy bylaw for that time period are used to determine reserve interest impacts.
- 5. Changes to the MGA in 2017 enable municipalities to charge offsite levies for recreation, fire, police, library, and interchange facilities. County Administration and Council should consider whether it wishes to adopt such levies in the future and, if so, begin developing the necessary supporting documentation that will be needed to support such levies. Support documentation requirements for these new levies are more stringent (see MGA Section 648 and Regulation AR 187/2017).

#### 7 ACKNOWLEDGEMENTS

CORVUS Business Advisors would like to thank all Sturgeon County staff from Engineering, Planning, and Finance who supported the work of this review.

#### 8 DISCLAIMER

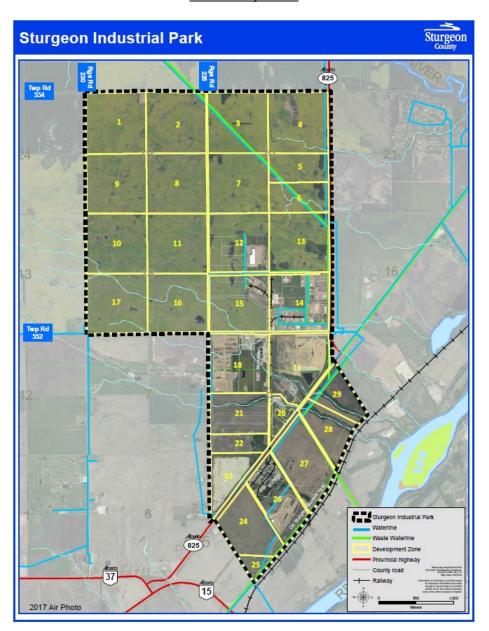
CORVUS Business Advisor has relied upon Sturgeon County and its advisors to provide all of the data and information used to construct the offsite levy model and create the rates, such as planning data and assumptions, development forecasts and assumptions, infrastructure costs and costs estimates, allocations to benefitting parties, allocation to benefitting areas, and other assumptions etc. As such, CORVUS Business Advisors makes no guarantee as to the accuracy of the input data and information provided by these groups or the results that stem from this data and information.

Offsite levy rates are not intended to stay static; they are based upon assumptions and the best available information of the day. Planning assumptions, cost estimates etc. can change each year. Accordingly, the Municipal Government Act requires that offsite levy rates be updated with the most available information on a regular basis (usually <u>annually</u>). When information changes, it will be reflected in a future update, and rates adjusted accordingly.

# APPENDIX A: OFFSITE LEVY AREAS AND LAND STAGING

The Sturgeon Industrial Park is parsed into **29** offsite levy areas, as shown in the map below. Areas take into consideration the intersection points of existing/planned infrastructure basins (e.g., water and sanitary basins), and also various natural and man-made barriers (e.g., rivers, highways, etc.). All offsite levy infrastructure costs are allocated to one or more areas.

Offsite Levy Areas



Total net development area, the amount of land available for development in all offsite levy areas, is approximately **1126 ha.** In calculating net development area, allowances have been made for environmental reserves, municipal reserves, and arterial road right of way.

Offsite Levy Net Development Area 5

| Area Ref. # | Development Area Location    | Land Use Gross Area (ha.) |          | Environmental<br>Reserves (ha.) | Sub-total | Municipal<br>Reserves | Arterial Right of<br>Way | Net<br>Development<br>Area (ha.) |
|-------------|------------------------------|---------------------------|----------|---------------------------------|-----------|-----------------------|--------------------------|----------------------------------|
| 1.0         | NW-19-55-22-4                | Industrial                | 64.70    | 1.60                            | 63.10     | 6.31                  | 2.98                     | 53.81                            |
| 2.0         | NE-19-55-22-4                | Industrial                | 64.70    | 0.81                            | 63.89     | 6.39                  | 2.78                     | 54.72                            |
| 3.0         | NW-20-55-22-4                | Industrial                | 64.70    | 3.87                            | 60.83     | 6.08                  | 2.41                     | 52.34                            |
| 4.0         | NE-20-55-22-4                | Industrial                | 64.70    | 0.73                            | 63.97     | 6.40                  | 2.40                     | 55.17                            |
| 5.0         | SE-20-55-22-4 (North Half)   | Industrial                | 32.35    | 2.38                            | 29.97     | 3.00                  | 0.41                     | 26.56                            |
| 6.0         | SE-20-55-22-4 (South Half)   | Industrial                | 32.35    | 7.20                            | 25.15     | 2.52                  | 0.41                     | 22.23                            |
| 7.0         | SW-20-55-22-4                | Industrial                | 64.70    | 4.61                            | 60.09     | 6.01                  | 0.81                     | 53.27                            |
| 8.0         | SE-19-55-22-4                | Industrial                | 64.70    | 1.46                            | 63.24     | 6.32                  | 1.20                     | 55.72                            |
| 9.0         | SW-19-55-22-4                | Industrial                | 64.70    | 3.07                            | 61.63     | 6.16                  | 1.61                     | 53.86                            |
| 10.0        | NW-18-55-22-4                | Industrial                | 64.70    | 3.19                            | 61.51     | 6.15                  | 1.61                     | 53.75                            |
| 11.0        | NE-18-55-22-4                | Industrial                | 64.70    | 2.21                            | 62.49     | 6.25                  | 1.18                     | 55.06                            |
| 12.0        | NW-17-55-22-4                | Industrial                | 43.40    | 8.50                            | 34.90     | 3.49                  | 0.78                     | 30.63                            |
| 13.0        | NE-17-55-22-4                | Industrial                | 64.10    | 4.01                            | 60.09     | 6.01                  | 1.03                     | 53.05                            |
| 14.0        | SE-17-55-22-4                | Industrial                | 12.90    | ı                               | 12.90     | 1.29                  | -                        | 11.61                            |
| 15.0        | SW-17-55-22-4                | Industrial                | 54.05    | •                               | 54.05     | 5.41                  | 1.49                     | 47.16                            |
| 16.0        | SE-18-55-22-4                | Industrial                | 64.70    | -                               | 64.70     | 6.47                  | 2.76                     | 55.47                            |
| 17.0        | SW-18-55-22-4                | Industrial                | 64.70    | -                               | 64.70     | 6.47                  | 3.16                     | 55.07                            |
| 18.0        | NW-8-55-22-4                 | Industrial                | 47.34    | ı                               | 47.34     | 1.93                  | -                        | 45.41                            |
| 19.0        | NE-8-55-22-4                 | Industrial                | 48.48    | -                               | 48.48     | 4.85                  | -                        | 43.63                            |
| 20.0        | SE-8-55-22-4                 | Industrial                | -        | -                               | -         | -                     | -                        | -                                |
| 21.0        | SW-8-55-22-4 (North Portion) | Industrial                | 44.50    | 2.83                            | 41.67     | 4.17                  | 0.52                     | 36.98                            |
| 22.0        | SW-8-55-22-4 (South Portion) | Industrial                | 19.70    |                                 | 19.70     | 1.97                  | 0.25                     | 17.48                            |
| 23.0        | NW-5-55-22-4                 | Industrial                | 29.87    |                                 | 29.87     | 2.99                  | -                        | 26.88                            |
| 24.0        | RL22-55-22-4 (North Portion) | Industrial                | 49.00    | 1.08                            | 47.92     | 4.79                  | -                        | 43.13                            |
| 25.0        | RL22-55-22-4 (South Portion) | Industrial                | 8.30     | 0.12                            | 8.18      | 0.82                  | -                        | 7.36                             |
| 26.0        | RL16&18-55-22-4              | Industrial                | 28.70    | 1.47                            | 27.23     | 2.72                  | -                        | 24.51                            |
| 27.0        | RL14-55-22-4                 | Industrial                | 54.80    | 2.91                            | 51.89     | 5.19                  | -                        | 46.70                            |
| 28.0        | RL12-55-22-4 (West Portion)  | Industrial                | 33.80    | 6.32                            | 27.48     | 2.75                  | 0.19                     | 24.54                            |
| 29.0        | RL12-55-22-4 (East Portion)  | Industrial                | 29.90    | 7.45                            | 22.45     | 2.25                  | 0.61                     | 19.60                            |
|             |                              | Total                     | 1,345.23 | 65.82                           | 1,279.42  | 125.14                | 28.59                    | 1,125.69                         |

Summary of Offsite Levy Net Development Area

| Description              | ha.      |
|--------------------------|----------|
| Gross Development Area   | 1,345.23 |
| Less Environment Reserve | 65.82    |
| Less Municipal Reserve   | 125.14   |
| Less ROW Allowance       | 28.59    |
| Net Development Area     | 1,125.69 |

\*Note: 1 Hectare (ha.) = ~2.47 Acres

Net development area definitions will be applied in determining offsite levy obligations of developers on application for subdivision or development within Sturgeon County. Net development area is defined as follows:

- Gross Area The area of lands to be developed in hectares that have not previously paid an offsite levy.
  - Less: Any environmental reserves contained within the development area Including environmental reserves and environmental easements.

<sup>&</sup>lt;sup>5</sup> Area measurements were provided by County staff.

- Less: A 10% allowance for Municipal Reserves.
- Less: The measurement of arterial road right of way that bisects the development lands.
- Equals: Net Developable Area, which is the area subject to offsite levies.

A rate planning period of 25 years underpins the offsite levy model and rate calculations. Many municipalities use this planning period as it provides a reasonable timeframe to recoup the costs associated with offsite levy infrastructure construction, and it aligns with the timeframes of many municipal capital planning and construction cycles.

Of the **1126 ha.** of net land available across all offsite levy areas, approximately **156 ha. (14%)** have been developed to date, and planners estimate that approximately **637 ha. (57%)** will develop during the next 25-years (the rate planning period) as shown in the tables below.

#### Summary of Anticipated Development during the 25 Year Rate Planning Period

| Developed Since Model Created | 156.39   | 13.9% |
|-------------------------------|----------|-------|
| Developed In Next 25 Years    | 637.33   | 56.6% |
| Developed Beyond 25 Years     | 331.98   | 29.5% |
| Net Development Area          | 1,125.70 |       |

## Anticipated Development during the 25 Year Rate Planning Period

| Area<br>Ref. # | Area Developed<br>in Next 25<br>years<br>(Net ha.) | 2021 | 2022 | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  | 2031  | 2032  | 2033  | 2034  | 2035  | 2036  | 2037  | 2038  | 2039  | 2040  | 2041  | 2042  | 2043  | 2044  | 2045 |
|----------------|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.0            | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 2.0            | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 3.0            | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 4.0            | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 5.0            | 26.560   | -    | -    | -     | -     | -     | -     | -     | -     | -     | 6.64  | 6.64  | 6.64  | 6.64  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 6.0            | 22.213   | -    | -    | -     | -     | -     | 5.54  | 5.56  | 5.56  | 5.56  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 7.0            | 53.265   | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 13.32 | 13.32 | 13.32 | 13.32 | -     | -     | -     | -     | -    |
| 8.0            | 55.060   | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 13.77 | 13.77 | 13.77 | 13.77 | -    |
| 9.0            | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 10.0           | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 11.0           | 55.060   | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | 13.77 | 13.77 | 13.77 | 13.77 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 12.0           | 18.160   | -    | -    | 6.05  | 6.05  | 6.06  | -     |       |       |       |       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |       | -     | -     | -    |
| 13.0           | 53.040   | -    | -    | 13.26 | 13.26 | 13.26 | 13.26 |       |       |       | -     | -     |       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |       | -     | -    |
| 14.0           | 6.940  | -    | -    | -     | -     | -     | 3.47  | 3.47  |       |       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 15.0           | 40.800   | -    | -    | 13.60 | 13.60 | 13.60 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 16.0           | 55.460   | -    | -    | -     | -     | -     | -     | -     |       |       | -     | 13.87 | 13.87 | 13.87 | 13.87 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 17.0           | 55.040   | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 6.88  | 6.88  | 6.88  | 6.88  | 6.88  | 6.88  | 6.88  | 6.88  | -     | -     | -     | -    |
| 18.0           | -  | -    | -    | -     | -     | -     | -     | -     |       |       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 19.0           | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 20.0           | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 21.0           | 36.960   | -    | -    | -     | -     | -     | 9.24  | 9.24  | 9.24  | 9.24  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 22.0           | 17.480   | -    | -    | -     | -     | -     | 4.37  | 4.37  | 4.37  | 4.37  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 23.0           | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 24.0           | 43.110   | -    | -    | -     | -     | 14.37 | 14.37 | 14.37 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 25.0           | 7.350  | -    | -    | -     | -     | -     | -     | 2.45  | 2.45  | 2.45  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 26.0           | -  | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 27.0           | 46.700   | -    | -    | -     | -     | 11.68 | 11.68 | 11.68 | 11.66 | -     | -     | -     | -     | -     | -     |       | -     |       |       | -     | -     | -     | -     | -     | -     | -    |
| 28.0           | 24.540   | -    | -    | -     | -     | -     | -     | -     | -     | 6.14  | 6.14  | 6.14  | 6.14  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 29.0           | 19.590   | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 4.90  | 4.90  | 4.90  | 4.89  | -     | -     | -     | -     | -     | -     | -     | -     | -    |
|                | 637.33   | -    | -    | 32.91 | 32.91 | 58.97 | 61.93 | 51.14 | 33.28 | 27.75 | 12.78 | 40.41 | 40.41 | 39.17 | 39.41 | 11.78 | 11.77 | 20.20 | 20.20 | 20.20 | 20.20 | 20.65 | 13.77 | 13.77 | 13.77 | -    |

#### **APPENDIX B: TRANSPORTATION**

### **B1.** Transportation Offsite Infrastructure

To support future growth, transportation offsite infrastructure is required. The estimated cost of this infrastructure is based upon: (a) actual construction costs to the cut-off date, (b) future debenture interest associated with financing, and (c) future cost estimates. Total cost is approximately **\$77.15 million** as outlined in the table below. Actual costs, debenture interest (if any), and cost estimates were provided by County staff. It is important to note that these costs represent "gross" costs, of which only a portion will go to support development during the 25-year review period. The remainder of this section outlines how the "net" costs for development are determined.

Summary of Transportation Offsite Infrastructure

| Item | Project Description                                      | Completed Work |           |    | iture Debenture<br>Interest | Estimated Cost of<br>Work Yet to be<br>Completed |            |    | tal Project Cost |
|------|--|----------------|-----------|----|-----------------------------|--|------------|----|------------------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | \$             | 1,269,489 | \$ | 49,658                      |  | -          | \$ | 1,319,147        |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | \$             | 1,364,260 | \$ | 18,311                      | \$   | -          | \$ | 1,382,570        |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | \$             | 2,475,432 | \$ | 34,507                      | \$   | -          | \$ | 2,509,939        |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | \$             | -         | \$ | -                           | \$   | 477,421    | \$ | 477,421          |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | \$             | 1,827,051 | \$ | -                           | \$   | 246,192    | \$ | 2,073,243        |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | \$             | -         | \$ | -                           | \$   | 3,807,648  | \$ | 3,807,648        |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | \$             | 2,376,447 | \$ | -                           | \$   | 1,154,469  | \$ | 3,530,915        |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | \$             | 278,114   | \$ | -                           | \$   | 7,515,044  | \$ | 7,793,158        |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | \$             | -         | \$ | -                           | \$   | 146,250    | \$ | 146,250          |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | \$             | -         | \$ | -                           | \$   | 234,000    | \$ | 234,000          |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | \$             | -         | \$ | -                           | \$   | 469,962    | \$ | 469,962          |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | \$             | -         | \$ | -                           | \$   | 1,606,050  | \$ | 1,606,050        |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | \$             | -         | \$ | -                           | \$   | 1,903,824  | \$ | 1,903,824        |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | \$             | -         | \$ | -                           | \$   | 477,421    | \$ | 477,421          |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | \$             | -         | \$ | -                           | \$   | 1,847,259  | \$ | 1,847,259        |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | \$             | -         | \$ | -                           | \$   | 2,855,736  | \$ | 2,855,736        |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | \$             | -         | \$ | -                           | \$   | 3,718,674  | \$ | 3,718,674        |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | \$             | -         | \$ | -                           | \$   | 1,606,050  | \$ | 1,606,050        |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | \$             | -         | \$ | -                           | \$   | 1,903,824  | \$ | 1,903,824        |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | \$             | -         | \$ | -                           | \$   | 3,780,830  | \$ | 3,780,830        |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | \$             | -         | \$ | -                           | \$   | 1,606,050  | \$ | 1,606,050        |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | \$             | -         | \$ | -                           | \$   | 1,903,824  | \$ | 1,903,824        |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | \$             | -         | \$ | -                           | \$   | 477,421    | \$ | 477,421          |
| 24   | Twp 554 from RR 230 - RR 225 (Grading)                   | \$             | -         | \$ | -                           | \$   | 1,606,050  | \$ | 1,606,050        |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | \$             | -         | \$ | -                           | \$   | 1,903,824  | \$ | 1,903,824        |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | \$             | -         | \$ | -                           | \$   | 477,421    | \$ | 477,421          |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | \$             | -         | \$ | -                           | \$   | 4,818,150  | \$ | 4,818,150        |
| 28   | Twp 552 from RR 230 - Hwy 28A (Paving)                   | \$             | -         | \$ | -                           | \$   | 5,711,472  | \$ | 5,711,472        |
| 29   | Twp 554 from RR 230 - Hwy 28A (Grading)                  | \$             | -         | \$ | -                           | \$   | 4,818,150  | \$ | 4,818,150        |
| 30   | Twp 554 from RR 230 - Hwy 28A (Paving)                   | \$             | -         | \$ | -                           | \$   | 5,711,472  | \$ | 5,711,472        |
| 31   | RR 230 from Twp 553 - Twp 554 (Grading)                  | \$             | -         | \$ | -                           | \$   | 1,606,050  | \$ | 1,606,050        |
| 32   | RR 230 from Twp 553 - Twp 554 (Paving)                   | \$             | -         | \$ | -                           | \$   | 1,903,824  | \$ | 1,903,824        |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | \$             | -         | \$ | -                           | \$   | 1,160,143  | \$ | 1,160,143        |
| 100  | Transfer From Arterial Road Fee Account                  | \$             | -         | \$ | -                           | \$   | -          | \$ | -                |
|      |  | \$             | 9,590,792 | \$ | 102,476                     | \$   | 67,454,504 | \$ | 77,147,773       |

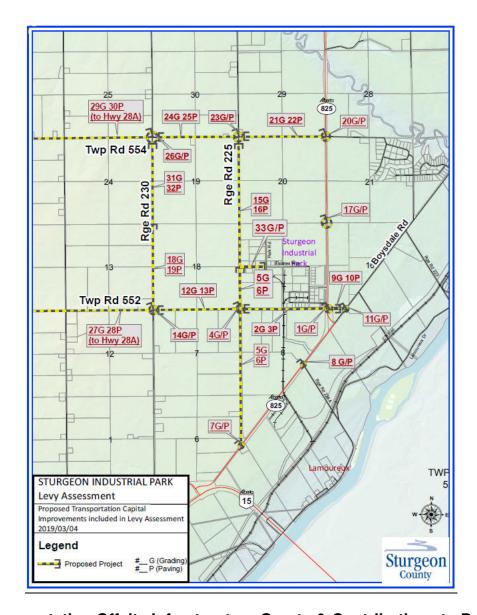
<sup>\*</sup>Past expenditures include past financing expenditures (interest) if any.

<sup>\*\*</sup>Costs estimates provided by County staff.

<sup>\*\*\*</sup>Estimates include engineering and contingencies.

<sup>\*\*\*\*</sup>Transfers or contributions stemming from Development Agreements were set-up as an individual project (#100) and credited 100% to future development and to all offsite levy areas (see *Section B5*).

<sup>\*\*\*\*\*\*</sup>Offsite infrastructure definitions are contained in Appendix F.



#### **B2.** Transportation Offsite Infrastructure Grants & Contributions to Date

The MGA enables the County to allocate the costs of offsite infrastructure to development, other than those costs that have been provided by way of special ear-marked grant or contribution (i.e., contributed infrastructure). Sturgeon County has/will receive \$7.25 million in special ear-marked grants or contributions for transportation offsite levy infrastructure as shown in the table below (note, if the County receives other ear-marked grants or contributions in the future, it will be reflected in one of the annual updates and rates adjusted accordingly). The result is that the total reduced project estimated cost is \$69.90 million.

#### Special Grants and Contributions for Transportation Offsite Infrastructure

| Item | Project Description                                      | Tota | ıl Project Cost | ecial Provincial<br>ants (Historic &<br>Future) | (H | Developer<br>Agreement<br>Contributions<br>istoric & Future) | Other<br>Intributions<br>Intributions | educed Project<br>Cost |
|------|--|------|-----------------|---|----|--|---------------------------------------|------------------------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | \$   | 1,319,147       | 100,000   |    | -  | \$<br>-                               | \$<br>1,219,147        |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | \$   | 1,382,570       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,382,570        |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | \$   |                 | -   | \$ | -  | \$<br>-                               | \$<br>2,509,939        |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | \$   |                 | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>477,421          |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | \$   | 2,073,243       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>2,073,243        |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | \$   | 3,807,648       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>3,807,648        |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | \$   | 3,530,915       | \$<br>865,852                                   | \$ | -  | \$<br>-                               | \$<br>2,665,064        |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | \$   | 7,793,158       | \$<br>5,636,283                                 | \$ | -  | \$<br>-                               | \$<br>2,156,875        |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | \$   | 146,250         | \$<br>109,688                                   |    | -  | \$<br>-                               | \$<br>36,563           |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | \$   | 234,000         | \$<br>135,000                                   | \$ | -  | \$<br>-                               | \$<br>99,000           |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | \$   | 469,962         | \$<br>352,472                                   | \$ | -  | \$<br>-                               | \$<br>117,491          |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | \$   | 1,606,050       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,606,050        |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | \$   | 1,903,824       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,903,824        |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | \$   | 477,421         | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>477,421          |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | \$   | 1,847,259       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,847,259        |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | \$   | 2,855,736       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>2,855,736        |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | \$   | 3,718,674       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>3,718,674        |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | \$   | 1,606,050       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,606,050        |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | \$   | 1,903,824       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,903,824        |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | \$   | 3,780,830       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>3,780,830        |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | \$   | 1,606,050       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,606,050        |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | \$   | 1,903,824       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,903,824        |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | \$   | 477,421         | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>477,421          |
|      | Twp 554 from RR 230 - RR 225 (Grading)                   | \$   | 1,606,050       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,606,050        |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | \$   | 1,903,824       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,903,824        |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | \$   | 477,421         | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>477,421          |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | \$   | 4,818,150       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>4,818,150        |
|      | Twp 552 from RR 230 - Hwy 28A (Paving)                   | \$   | 5,711,472       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>5,711,472        |
|      | Twp 554 from RR 230 - Hwy 28A (Grading)                  | \$   | 4,818,150       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>4,818,150        |
|      | Twp 554 from RR 230 - Hwy 28A (Paving)                   | \$   | 5.711.472       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>5.711.472        |
|      | RR 230 from Twp 553 - Twp 554 (Grading)                  | \$   | 1,606,050       | -   | \$ | -  | \$<br>-                               | \$<br>1,606,050        |
|      | RR 230 from Twp 553 - Twp 554 (Paving)                   | \$   | 1,903,824       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,903,824        |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | \$   | 1,160,143       | \$<br>-   | \$ | -  | \$<br>-                               | \$<br>1,160,143        |
|      | Transfer From Arterial Road Fee Account                  | \$   | -               | \$<br>-   | \$ | -  | \$<br>50.000                          | (50,000)               |
|      |  | \$   | 77,147,773      | \$<br>7,199,294                                 | \$ | -  | \$<br>50,000                          | \$<br>69,898,479       |

#### **B3.** Year of Construction

The timing of construction is used to determine the impact of inflation on cost, the impact of forecast reserve balances, and the estimate of financial oversizing (described in the Section that follows). The County anticipates construction of offsite infrastructure as outlined in the table below. Note, if this schedule is adjusted in the future, it will be reflected in one of the County's annual rate/bylaw updates.

#### Forecast Year of Construction

| Item | Project Description                                      | Construction Start<br>Year |
|------|--|----------------------------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | 2012                       |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | 2012                       |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | 2013                       |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | 2023                       |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | 2013                       |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | 2023                       |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | 2014                       |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | 2015                       |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | 2020                       |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | 2020                       |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | 2020                       |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | 2033                       |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | 2034                       |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | 2050                       |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | 2030                       |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | 2031                       |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | 2020                       |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | 2050                       |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | 2050                       |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | 2050                       |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | 2050                       |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | 2050                       |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | 2050                       |
| 24   | Twp 554 from RR 230 - RR 225 (Grading)                   | 2050                       |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | 2050                       |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | 2050                       |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | 2039                       |
| 28   | Twp 552 from RR 230 - Hwy 28A (Paving)                   | 2040                       |
| 29   | Twp 554 from RR 230 - Hwy 28A (Grading)                  | 2050                       |
| 30   | Twp 554 from RR 230 - Hwy 28A (Paving)                   | 2050                       |
| 31   | RR 230 from Twp 553 - Twp 554 (Grading)                  | 2050                       |
| 32   | RR 230 from Twp 553 - Twp 554 (Paving)                   | 2050                       |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | 2023                       |

<sup>\*</sup>The share of projects constructed beyond the 25-year review period are not included in rates today (see financial oversizing in next section).

# **B4. Transportation Offsite Infrastructure Benefiting Parties**

The transportation offsite infrastructure previously outlined will benefit various parties to varying degrees. Three potential benefiting parties were identified including:

- 1. Sturgeon County a portion of the transportation infrastructure which is required to service existing residents. This residual benefit is determined at the point in time when the project is added to the bylaw (i.e., it does not fluctuate from year-to-year).
- 2. Other Stakeholders other municipalities that benefit from the infrastructure.
- 3. Future Development:
  - Financial Oversizing that portion of cost (i.e., levyable transportation)

<sup>\*\*</sup>Project costs are inflated by 2% per annum to 2022 and 3% per annum thereafter to the year of construction.

infrastructure costs) which benefits future development beyond the 25-year review period.

 In Rates – that portion of cost (i.e., levyable transportation infrastructure costs) which benefits future development within the 25year review period.

The table below outlines the allocation of transportation offsite levy infrastructure costs to benefiting parties.

Allocation of Transportation Infrastructure to Benefiting Parties

| Item | Project Description                                      | Redu | ced Project<br>Cost | Muni Share % | Other Stakeholder<br>Share | Developer Share<br>Beyond 25 Yrs<br>(Financial<br>Oversizing %) | OSL / Developer<br>Share % |
|------|--|------|---------------------|--------------|----------------------------|---|----------------------------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | \$   | 1,219,147           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | \$   | 1,382,570           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | \$   | 2,509,939           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | \$   | 477,421             | 20.0%        |                            | 6.4%  | 73.6%                      |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | \$   | 2,073,243           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | \$   | 3,807,648           | 20.0%        |                            | 6.4%  | 73.6%                      |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | \$   | 2,665,064           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | \$   | 2,156,875           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | \$   | 36,563              | 20.0%        |                            | 0.0%  | 80.0%                      |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | \$   | 99,000              | 20.0%        |                            | 0.0%  | 80.0%                      |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | \$   | 117,491             | 20.0%        |                            | 0.0%  | 80.0%                      |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | \$   | 1,606,050           | 20.0%        |                            | 38.4%   | 41.6%                      |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | \$   | 1,903,824           | 20.0%        |                            | 41.6%   | 38.4%                      |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | \$   | 477,421             | 20.0%        |                            | 80.0%   | 0.0%                       |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | \$   | 1,847,259           | 20.0%        |                            | 28.8%   | 51.2%                      |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | \$   | 2,855,736           | 20.0%        |                            | 32.0%   | 48.0%                      |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | \$   | 3,718,674           | 20.0%        |                            | 0.0%  | 80.0%                      |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | \$   | 1,606,050           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | \$   | 1,903,824           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | \$   | 3,780,830           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | \$   | 1,606,050           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | \$   | 1,903,824           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | \$   | 477,421             | 20.0%        |                            | 80.0%   | 0.0%                       |
| 24   | Twp 554 from RR 230 - RR 225 (Grading)                   | \$   | 1,606,050           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | \$   | 1,903,824           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | \$   | 477,421             | 20.0%        |                            | 80.0%   | 0.0%                       |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | \$   | 4,818,150           | 20.0%        |                            | 57.6%   | 22.4%                      |
| 28   | Twp 552 from RR 230 - Hwy 28A (Paving)                   | \$   | 5,711,472           | 20.0%        |                            | 60.8%   | 19.2%                      |
| 29   | Twp 554 from RR 230 - Hwy 28A (Grading)                  | \$   | 4,818,150           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 30   | Twp 554 from RR 230 - Hwy 28A (Paving)                   | \$   | 5,711,472           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 31   | RR 230 from Twp 553 - Twp 554 (Grading)                  | \$   | 1,606,050           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 32   | RR 230 from Twp 553 - Twp 554 (Paving)                   | \$   | 1,903,824           | 20.0%        |                            | 80.0%   | 0.0%                       |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | \$   | 1,160,143           | 20.0%        |                            | 6.4%  | 73.6%                      |
| 100  | Transfer From Arterial Road Fee Account                  | \$   | (50,000)            |              |                            | 0.0%  | 100.0%                     |
|      |  | \$   | 69,898,479          |              |                            |   |                            |

<sup>\*</sup>Allocations were determined by County staff.

# **B5. Existing Receipts & Adjusted Levy Cost**

Using the offsite levy share percentages shown in the previous section and applying those percentages to project costs results in an offsite levy cost of approximately \$22.63 million. However, prior to allocating these costs to benefiting areas, existing offsite levy receipts collected from developers (if any) need to be considered in determining the residual/net costs to developers. County staff have advised that \$5.57 million in transportation levies have been applied/collected as shown in the table below. This results in an adjusted offsite

<sup>\*\*</sup>Financial oversizing is determined by separating out the pro rata portion of developer cost beyond the 25-year review period, in comparison with the anticipated year of construction. As the years move forward and rates are updated, these additional developer costs will be included in rate calculations. For example, a project which is slated to be constructed in year 20 of the 25-year review period will have 20% (5/25) of its costs in rates today, and 80% (20/25) of its costs will sit beyond the 25-year review period.

#### levy cost of approximately \$17.06 million.

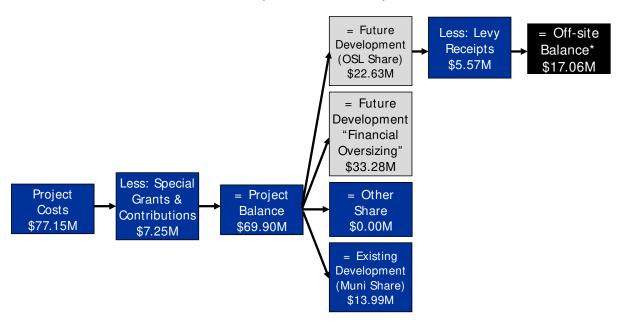
#### Offsite Levy Funds Applied to Date

| Item | Project Description                                      | OSL | / Developer<br>Cost |    | Offsite Levy<br>nds Collected | Adjusted<br>eloper (Levy)<br>Cost |
|------|--|-----|---------------------|----|-------------------------------|-----------------------------------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | \$  | 975,318             | \$ | (281)                         | \$<br>975,599                     |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | \$  | 1,106,056           | \$ | 110,838                       | \$<br>995,218                     |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | \$  | 2,007,951           | \$ | 326,250                       | \$<br>1,681,702                   |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | \$  | 351,382             | \$ | 81,373                        | \$<br>270,009                     |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | \$  | 1,658,594           | \$ | 438,415                       | \$<br>1,220,179                   |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | \$  | 2,802,429           | \$ | 635,071                       | \$<br>2,167,358                   |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | \$  | 2,132,051           | \$ | 523,234                       | \$<br>1,608,817                   |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | \$  | 1,725,500           | \$ | 432,986                       | \$<br>1,292,515                   |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | \$  | 29,250              | \$ | 11,239                        | \$<br>18,011                      |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | \$  | 79,200              | \$ | 21,785                        | \$<br>57,415                      |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | \$  | 93,992              | \$ | 31,212                        | \$<br>62,780                      |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | \$  | 668,117             | \$ | 167,517                       | \$<br>500,600                     |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | \$  | 731,068             | \$ | 184,514                       | \$<br>546,555                     |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | \$  | -                   | \$ | 12,997                        | \$<br>(12,997)                    |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | \$  | 945,797             | \$ | 149,023                       | \$<br>796,773                     |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | \$  | 1,370,753           | \$ | 222,353                       | \$<br>1,148,400                   |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | \$  | 2,974,939           | \$ | 678,959                       | \$<br>2,295,981                   |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | \$  | -                   | \$ | 44,561                        | \$<br>(44,561)                    |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | \$  | -                   | \$ | 51,492                        | \$<br>(51,492)                    |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | \$  | -                   | \$ | 102,428                       | \$<br>(102,428)                   |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | \$  | -                   | \$ | 44,561                        | \$<br>(44,561)                    |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | \$  | -                   | \$ | 51,492                        | \$<br>(51,492)                    |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | \$  | _                   | \$ | 12,997                        | \$<br>(12,997)                    |
| 24   | Twp 554 from RR 230 - RR 225 (Grading)                   | \$  | _                   | \$ | 44,561                        | \$<br>(44,561)                    |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | \$  | _                   | \$ | 51,492                        | \$<br>(51,492)                    |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | \$  | _                   | \$ | 12,997                        | \$<br>(12,997)                    |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | \$  | 1.079.266           | \$ | 287.378                       | \$<br>791.888                     |
| 28   | Twp 552 from RR 230 - Hwy 28A (Paving)                   | \$  | 1,096,603           | \$ | 299,591                       | \$<br>797,011                     |
| 29   | Twp 554 from RR 230 - Hwy 28A (Grading)                  | \$  |                     | \$ | 133,682                       | \$<br>(133,682)                   |
| 30   | Twp 554 from RR 230 - Hwy 28A (Paving)                   | \$  | -                   | \$ | 154,477                       | \$<br>(154,477)                   |
| 31   | RR 230 from Twp 553 - Twp 554 (Grading)                  | \$  | _                   | \$ | 44,561                        | \$<br>(44,561)                    |
| 32   | RR 230 from Twp 553 - Twp 554 (Paving)                   | \$  | _                   | \$ | 51,492                        | \$<br>(51,492)                    |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | \$  | 853.865             | \$ | 154.751                       | \$<br>699.114                     |
| 100  | Transfer From Arterial Road Fee Account                  | \$  | ,                   | -  | - ,                           | \$<br>(50,000)                    |
|      |  | \$  | 22,632,132          | \$ | 5,569,994                     | \$<br>17,062,137                  |

# **B6.** Summary of Transportation Offsite Levy Cost Flow-through

As shown in the figure below, the total cost for transportation infrastructure that forms the basis of the rate is approximately **\$17.06 million**. The cost allocations to each benefitting party are based on the benefitting percentages shown in previous section. The offsite levy balance (due from developers) is allocated to various benefitting areas (as described in the next section).

#### Total Transportation Offsite Levy Costs



# **B7.** Transportation Infrastructure Benefiting Areas

Net developer costs for each project have been allocated to multiple benefiting offsite levy area (see tables below). Allocations are denoted with a "1" below applicable area numbers. Benefiting areas were determined by County staff. The lands anticipated to develop over the 25-years in each offsite levy benefitting area are used to determine rates.

Transportation Allocations to Benefitting Areas

| Item | Project Description                                      | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | Twp 552/Hwy 825 (Grading and Paving)                     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 2    | Twp 552 from Hwy 825 - RR 225 (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 3    | Twp 552 from Hwy 825 - RR 225 (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 4    | Twp 552/RR 225 (Grading and Paving)                      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 5    | RR 225 from Hwy 825 - Estates Way (Grading)              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 6    | RR 225 from Hwy 825 - Estates Way (Paving)               | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 7    | Hwy 825/RR 225 (Grading and Paving)                      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 8    | Hwy 825/RR 224A (Grading and Paving)                     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 9    | Twp 552 from Boysdale Rd to Hwy 825 (Grading)            | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 10   | Twp 552 from Boysdale Rd to Hwy 825 (Paving)             | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 11   | Boysdale Road/Twp 552 (Grading and Paving)               | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 12   | Twp 552 from RR 225 to RR 230 (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 13   | Twp 552 from RR 225 to RR 230 (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 14   | Twp 552/RR 230 (Grading and Paving)                      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 15   | RR 225 from Estates Way - Twp 554 (Grading)              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 16   | RR 225 from Estates Way - Twp 554 (Paving)               | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 17   | Hwy 825/Twp 553 (Grading and Paving)                     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 18   | RR 230 from Twp 552 - Twp 553 (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 19   | RR 230 from Twp 552 - Twp 553 (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 20   | Hwy 825/Twp 554 (Grading and Paving)                     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 21   | Twp 554 from RR 225 - Hwy 825 (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 22   | Twp 554 from RR 225 - Hwy 825 (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 23   | Twp 554/RR 225 (Grading and Paving)                      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 24   | Twp 554 from RR 230 - RR 225 (Grading)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 25   | Twp 554 from RR 230 - RR 225 (Paving)                    | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 26   | RR 230/Twp 554 (Grading and Paving)                      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 27   | Twp 552 from RR 230 - Hwy 28A (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 28   | Twp 552 from RR 230 - Hwy 28A (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 29   | Twp 554 from RR 230 - Hwy 28A (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 30   | Twp 554 from RR 230 - Hwy 28A (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 31   | RR 230 from Twp 553 - Twp 554 (Grading)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 32   | RR 230 from Twp 553 - Twp 554 (Paving)                   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 33   | Estate Way from Park Road to RR 225 (Grading and Paving) | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 100  | Transfer From Arterial Road Fee Account                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

#### **B8.** Reserve Balance

At December 31<sup>st</sup>, 2020 the transportation reserve balance was in a deficit of \$(2,352,389.98). This amount takes into consideration expenditures and front-ending repayments up to end-2020. A negative balance indicates the presence of front-ending—i.e., this amount is owed to the County from the levy account via future collections. The County's ledgers should be amended to reflect this balance as it includes expenditures to date. This balance assumes that all remaining cash in the account is withdrawn and used to pay down a portion of front-ending obligations owed to the County.

#### Transportation Offsite Levy Reserve Balance

| Description   |      | Dr          |    | Cr           |    | Balance        |
|---|------|-------------|----|--------------|----|----------------|
| Levies Collected to Dec 31, 2012                                    | \$ 2 | ,481,376.13 |    |              | \$ | 2,481,376.13   |
| Levies Applied to Project Expenditures to Dec 31, 2012              |      |             | \$ | 213,348.11   | \$ | 2,268,028.02   |
| Account Balance Per County GL Dec 31, 2012                          |      |             | Ċ  | ,            |    | 2,268,028.02   |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |      |             | \$ | (42,669.62)  |    | 2,310,697.64   |
| Closing Balance Dec 31, 2012  |      |             |    |              | \$ | 2,310,697.64   |
| 2013  |      |             |    |              | \$ | 2,310,697.64   |
| Interest on Opening Balance   | \$   | 46,213.95   |    |              | \$ | 2,356,911.59   |
| Withdrawal Applied to Project Expenditures                          |      |             | \$ | 1,576,521.66 | \$ | 780,389.93     |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |      |             | \$ | (267,966.36) | \$ | 1,048,356.30   |
| Offsite Levy Receipts   | \$ 1 | ,259,757.84 |    |              | \$ | 2,308,114.14   |
| Other Receipts  | \$   | -           |    |              | \$ | 2,308,114.14   |
| Debenture Interest Expenditure                                      |      |             | \$ | -            | \$ | 2,308,114.14   |
| Interest on Project Expenditure                                     |      |             | \$ | 9,814.16     | \$ | 2,298,299.97   |
| Interest on Offsite Levy Receipts                                   | \$   | 12,597.58   |    |              | \$ | 2,310,897.55   |
| Interest on Other Receipts  | \$   | -           |    |              | \$ | 2,310,897.55   |
| Interest on Debenture Accrual                                       |      |             | \$ | -            | \$ | 2,310,897.55   |
| 2014  |      |             |    |              | \$ | 2,310,897.55   |
| Interest on Opening Balance   | \$   | 46,217.95   |    |              |    | 2,357,115.50   |
| Withdrawal Applied to Project Expenditures                          | Ψ    | 40,217.55   | \$ | 1,982,195.95 | \$ |                |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |      |             |    | 3,343,767.10 | _  | (2,968,847.54) |
| Offsite Levy Receipts   | \$   | 414,131.75  | Ψ  | 0,040,707.10 |    | (2,554,715.79) |
| Other Receipts  | \$   | -           |    |              |    | (2,554,715.79) |
| Debenture Interest Expenditure                                      | Ψ    |             | \$ | _            |    | (2,554,715.79) |
| Interest on Project Expenditure                                     |      |             | \$ | 39,944.72    |    | (2,594,660.52) |
| Interest on Offsite Levy Receipts                                   | \$   | 4,141.32    | Ψ  | 00,011.72    |    | (2,590,519.20) |
| Interest on Other Receipts  | \$   |             |    |              |    | (2,590,519.20) |
| Interest on Debenture Accrual                                       | Ψ    |             | \$ | -            | _  | (2,590,519.20) |
|   |      |             | _  |              |    |                |
| 2015  | -    |             | _  |              |    | (2,590,519.20) |
| Interest on Opening Balance   |      |             | \$ | 77,715.58    |    | (2,668,234.78) |
| Withdrawal Applied to Project Expenditures                          | -    |             | \$ |              |    | (2,888,752.16) |
| Other Receipts  |      | 10==10.1=   | \$ | 50,319.95    |    | (2,939,072.10) |
| Offsite Levy Receipts   | \$   | 425,513.45  |    |              |    | (2,513,558.65) |
| Other Receipts  | \$   | 50,000.00   | _  |              |    | (2,463,558.65) |
| Debenture Interest Expenditure                                      |      |             | \$ |              |    | (2,463,558.65) |
| Interest on Project Expenditure                                     |      |             | \$ | 2,031.28     |    | (2,465,589.93) |
| Interest on Offsite Levy Receipts                                   | \$   | 2,127.57    |    |              |    | (2,463,462.37) |
| Interest on Other Receipts  | \$   | -           |    |              |    | (2,463,462.37) |
| Interest on Debenture Accrual                                       |      |             | \$ | -            | \$ | (2,463,462.37) |

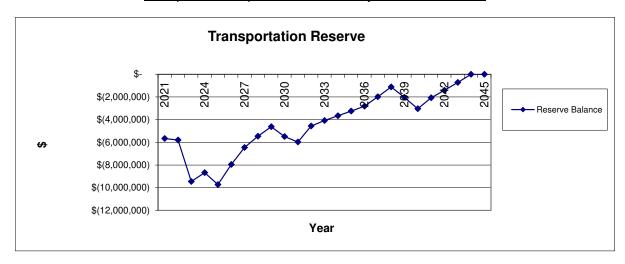
| Interest on Opening Balance   | 2010  |    |            |    | <b>*</b> (2 422 422 2       |
|---|---|----|------------|----|-----------------------------|
| Withdrawal Applied to Project Expenditures   \$ 74,74,72   \$ (2,612,109.09   | 2016  |    |            | _  | \$ (2,463,462.37)           |
| Other Receipts \$ 65,194.82 \$ 62,049.14 \$ (2,674,189.09) Other Receipts \$ 5 5,94.82 \$ 5,09,964.27 Interest on Project Expenditure \$ 5 1,025.95 \$ (2,609,964.27) Interest on Project Expenditure \$ 5 1,025.95 \$ (2,609,964.27) Interest on Offste Levy Receipts \$ 5 1,025.95 \$ (2,609,964.22) Interest on Offste Levy Receipts \$ 5 1,025.95 \$ (2,609,964.22) Interest on Other Receipts \$ 5 1,025.95 \$ (2,609,964.22) Interest on Opening Balance \$ 78,289.33 \$ (2,609,664.24) Interest on Opening Balance \$ 679,372.9 \$ (2,714,506.66) Interest on Opening Balance \$ 679,372.9 \$ (2,714,506.66) Interest on Opening Balance \$ 679,372.9 \$ (2,712,89.79) Interest on Opening Balance \$ 8,39,715.9 \$ (2,712,89.79) Interest on Opening Balance \$ 8,39,715.9 \$ (2,712,89.39) Interest on Opening Balance \$ 8,39,715.9 \$ (2,719,302.44) Interest on Opening Balance \$ 8,379,07 \$ (2,719,301.45) Interest on Opening Balance \$ 9,719,001.01 Interest o                      |   |    |            |    |                             |
| Offsite Levy Receipts \$ 56,194.82 \$ (2,608,964.27   |   |    |            |    |                             |
| Cheen Receipts  |   |    |            | \$ |                             |
| Debenture Interest Expenditure   \$ 1,025.95   \$1,2608,962.27   Interest on Offsite Levy Receipts   \$ 1,025.95   \$1,2608,960.27   Interest on Offsite Levy Receipts   \$ 325.97   \$1,2609,960.24   Interest on Oberham Accural   \$ 1,2609,664.24   Interest on Oberham Accural   \$ 1,2609,664.24   Interest on Opening Balance   \$ 78,289.93   \$1,2609,664.24   Interest on Opening Balance   \$ 78,289.93   \$1,2609,664.24   Interest on Opening Balance   \$ 78,289.93   \$1,2741,506.86   Other Receipts   \$ 679,372.97   \$5,715.90   \$1,2741,506.86   Other Receipts   \$ 679,372.97   \$5,715.90   \$1,221.76   Interest on Other Receipts   \$ 679,372.97   Interest on Other Receipts   \$ 1,222.76   Interest on Other Receipts   \$ 1,222.77   Interest on Other Receipt                                      |   |    | 65,194.82  |    |                             |
| Interest on Project Expenditure   | Other Receipts  | \$ | -          |    | \$ (2,608,964.27)           |
| Interest on Offsite Levy Receipts   \$   325.97   \$   2,609,664.24   Interest on Debenture Accrual   \$   \$   \$   \$   \$   \$   \$   \$   \$  |   |    |            | \$ | - \$ (2,608,964.27)         |
| Interest on Debenture Accrual   \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$   | Interest on Project Expenditure                                     |    |            | \$ | 1,025.95 \$ (2,609,990.22)  |
| Interest on Debenture Accrual   | Interest on Offsite Levy Receipts                                   | \$ | 325.97     |    | \$ (2,609,664.24)           |
| Interest on Debenture Accrual   | Interest on Other Receipts  |    | -          |    | \$ (2,609,664.24)           |
| 2017  |   |    |            | \$ |                             |
| Interest on Opening Balance   |   |    |            |    | <u> </u>                    |
| Withdrawal Applied to Project Expenditures   \$ 53,552.89 \$ (2,741,506.86  | 2017  |    |            |    | \$ (2,609,664.24)           |
| Other Receipts Offsite Levy Receipts Offsite Levy Receipts Debenture Interest Expenditure Interest on Opening Balance Withdrawal Applied to Project Expenditure Interest on Opening Balance Offsite Levy Receipts Offsite Levy Receipts Offsite Levy Receipts Separation of Michael Separation of Separa  | Interest on Opening Balance   |    |            | \$ | 78,289.93 \$ (2,687,954.17) |
| Other Receipts Offsite Levy Receipts Offsite Levy Receipts Debenture Interest Expenditure Interest on Opening Balance Withdrawal Applied to Project Expenditure Interest on Opening Balance Offsite Levy Receipts Offsite Levy Receipts Offsite Levy Receipts Separation of Michael Separation of Separa  | Withdrawal Applied to Project Expenditures                          |    |            | \$ | 53,552.69 \$ (2,741,506.86) |
| Offsite Lewy Receipts         \$ 679,372.97         \$ (2,121,849.79)           Interest on Other Receipts         \$   | Other Receipts  |    |            |    |                             |
| Interest on Other Receipts  |   | \$ | 679.372.97 |    |                             |
| Debenture Interest Expenditure   \$   |   |    |            |    |                             |
| Interest on Project Expenditure Interest on Offsite Levy Receipts Interest on Opening Balance Withdrawal Applied to Project Expenditures OSL Share of Expenditures in Addition to Allocations (Front-ending) Offsite Levy Receipts Interest on Opening Balance  \$ 63,579.07 \$ (2,119,302.44)  \$ (2,119 |   | Ψ  |            | \$ |                             |
| Interest on Offsite Levy Receipts \$ 3,396.86 \$ (2,119,302.44) Interest on Other Receipts \$ . \$ (2,119,302.44) Interest on Debenture Accrual \$ . \$ (2,119,302.44) Interest on Debenture Accrual \$ . \$ (2,119,302.44) Interest on Opening Balance \$ (3,579.07) \$ (2,182,881.52) Withdrawal Applied to Project Expenditures \$ 29,199.43 \$ (2,212,080.95) OSL Share of Expenditures in Addition to Allocations (Front-ending) \$ 54,949.50 \$ (2,267,030.44) Offsite Levy Receipts \$ . \$ (69,711.99) \$ (2,197,318.45) Other Receipts \$ . \$ . \$ (2,197,318.45) Interest on Project Expenditure \$ . \$ (2,197,318.45) Interest on Project Expenditure \$ . \$ (2,197,318.45) Interest on Offsite Levy Receipts \$ . \$ (2,197,318.45) Interest on Offsite Levy Receipts \$ . \$ (2,197,318.45) Interest on Offsite Levy Receipts \$ . \$ (2,197,318.45) Interest on Offsite Levy Receipts \$ . \$ (2,197,601.01) Interest on Offsite Levy Receipts \$ . \$ . \$ (2,197,601.01) Interest on Offsite Levy Receipts \$ . \$ . \$ (2,197,601.01) Interest on Opening Balance \$ . \$ . \$ (2,197,601.01) Interest on Opening Balance \$ . \$ . \$ (2,197,601.01) OSL Share of Expenditures in Addition to Allocations (Front-ending) \$ . \$ (2,308,399.61) Other Receipts \$ . \$ . \$ . \$ (2,316,399.61) Other Receipts \$ . \$ . \$ . \$ (2,316,399.61) Other Receipts \$ . \$ . \$ . \$ (2,316,399.61) Other Receipts \$ . \$ . \$ . \$ (2,317,098.40) Interest on Offsite Levy Receipts \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ . \$ . \$ (2,317,098.40) Interest on Opening Balance \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$   |   |    |            |    |                             |
| Interest on Other Receipts  2018 Interest on Opening Balance Interest on Opening Balance  S   |   | Ф  | 3 306 86   | ψ  |                             |
| Interest on Debenture Accrual   |   |    | <b>1</b>   |    |                             |
| 2018  | ·   | Ф  | -          | Φ. |                             |
| Interest on Opening Balance   | Interest on Depenture Accrual                                       |    |            | Ъ  | - \$ (2,119,302.44)         |
| Interest on Opening Balance   | 2018  |    |            |    | ¢ (2 110 202 44)            |
| Withdrawal Applied to Project Expenditures       \$ 29,199.43       \$ (2,212,080.95)         OSL Share of Expenditures in Addition to Allocations (Front-ending)       \$ 69,711.99       \$ (2,267,030.44)         Offisite Levy Receipts       \$ 69,711.99       \$ (2,197,318.45)         Other Receipts       \$ -       \$ (2,197,318.45)         Debenture Interest Expenditure       \$ -       \$ (2,197,318.45)         Interest on Project Expenditure       \$ 631.12       \$ (2,197,949.57)         Interest on Offsite Levy Receipts       \$ 348.56       \$ (2,197,601.01)         Interest on Other Receipts       \$ -       \$ (2,197,601.01)         Interest on Debenture Accrual       \$ -       \$ (2,197,601.01)         2019       \$ (2,197,601.01)       \$ (2,197,601.01)         Interest on Opening Balance       \$ 71,422.03       \$ (2,269,023.04)         Withdrawal Applied to Project Expenditures       \$ 119,257.37       \$ (2,388,280.41)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ -       \$ (2,316,399.61)         Interest on Offsite Levy Receipts       \$ 50.2.16       \$ (2,317,098.4   |   |    |            | Φ  |                             |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)       \$ 54,949.50       \$ (2,267,030.44)         Offsite Levy Receipts       \$ 69,711.99       \$ (2,197,318.45)         Debenture Interest Expenditure       \$ -       \$ (2,197,318.45)         Interest on Project Expenditure       \$ 631.12       \$ (2,197,949.57)         Interest on Offsite Levy Receipts       \$ 348.56       \$ (2,197,601.01)         Interest on Other Receipts       \$ -       \$ (2,197,601.01)         Interest on Debenture Accrual       \$ 71,422.03       \$ (2,269,023.04)         Vithdrawal Applied to Project Expenditures       \$ 119,257.37       \$ (2,316,090.61)         OSL Share of Expenditures in Addition to Allocations (Front-ending)       \$ 28,550.93       \$ (2,416,831.35)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Other Receipts       \$ 100,431.73       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ 1,200.94       \$ (2,317,009.60)         Interest on Project Expenditure       \$ 1,200.94       \$ (2,317,009.60)         Interest on Offsite Levy Receipts       \$ 502.16       \$ (2,317,009.60)         Interest on Opening Balance       \$ 75,305.70       \$ (2,337,098.40)         Interest on Opening Balance       \$ 75,305.70       \$ (2,317,098.40)         Withdr   |   |    |            |    |                             |
| Offsite Levy Receipts         \$ 69,711.99         \$ (2,197,318.45)           Other Receipts         \$ -         \$ (2,197,318.45)           Debenture Interest Expenditure         \$ -         \$ (2,197,318.45)           Interest on Project Expenditure         \$ 631.12         \$ (2,197,949.57)           Interest on Offsite Levy Receipts         \$ 348.56         \$ (2,197,601.01)           Interest on Other Receipts         \$ -         \$ (2,197,601.01)           Interest on Debenture Accrual         \$ -         \$ (2,197,601.01)           Interest on Opening Balance         \$ 71,422.03         \$ (2,269,023.04)           Withdrawal Applied to Project Expenditures         \$ 119,257.37         \$ (2,369,023.04)           OSL Share of Expenditures in Addition to Allocations (Front-ending)         \$ 28,550.93         \$ (2,316,839.61)           Offsite Levy Receipts         \$ 100,431.73         \$ (2,316,399.61)           Other Receipts         \$ 100,431.73         \$ (2,316,399.61)           Interest on Project Expenditure         \$ 1,200.94         \$ (2,317,098.40)           Interest on Offsite Levy Receipts         \$ 502.16         \$ (2,317,098.40)           Interest on Obenture Accrual         \$ 75,305.70         \$ (2,337,098.40)           Interest on Opening Balance         \$ 75,305.70         \$ (2,317,098.40)  |   |    |            |    |                             |
| Other Receipts  |   |    |            | \$ |                             |
| Debenture Interest Expenditure   \$   \$   \$   \$   \$   \$   \$   \$   \$   | , ,   |    | 69,711.99  |    |                             |
| Interest on Project Expenditure   | ·   | \$ | -          |    |                             |
| Interest on Offsite Levy Receipts   \$ 348.56   \$ (2,197,601.01)     Interest on Other Receipts   \$ .   |   |    |            |    |                             |
| Interest on Other Receipts   \$   \$   \$   \$   \$   \$   \$   \$   \$   | Interest on Project Expenditure                                     |    |            | \$ | 631.12 \$ (2,197,949.57)    |
| Interest on Debenture Accrual   | Interest on Offsite Levy Receipts                                   | \$ | 348.56     |    | \$ (2,197,601.01)           |
| Section   Sect  | Interest on Other Receipts  | \$ | -          |    | \$ (2,197,601.01)           |
| Interest on Opening Balance   | Interest on Debenture Accrual                                       |    |            | \$ | - \$ (2,197,601.01)         |
| Interest on Opening Balance   | 2010  | _  |            |    | 1 4 12 12 22 22 22          |
| Withdrawal Applied to Project Expenditures       \$ 119,257.37 \$ (2,388,280.41)         OSL Share of Expenditures in Addition to Allocations (Front-ending)       \$ 28,550.93 \$ (2,416,831.35)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Other Receipts       \$ -       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ 1,200.94 \$ (2,317,600.56)       \$ (2,317,600.56)         Interest on Project Expenditure       \$ 502.16       \$ (2,317,098.40)         Interest on Other Receipts       \$ -       \$ (2,317,098.40)         Interest on Debenture Accrual       \$ -       \$ (2,317,098.40)         2020       \$ (2,317,098.40)         Withdrawal Applied to Project Expenditures       \$ 75,305.70 \$ (2,389,854.10)         Withdrawal Applied to Project Expenditures       \$ (11,550.00) \$ (2,380,854.10)         Offsite Levy Receipts       \$ 74,503.67       \$ (2,352,481.53)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ -       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ -       \$ (2,352,481.53)         Interest on Project Expenditure       \$ -       \$ (2,352,481.53)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)   |   |    |            |    |                             |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)       \$ 28,550.93       \$ (2,416,831.35)         Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Other Receipts       \$ -       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ -       \$ (2,317,690.56)         Interest on Project Expenditure       \$ 1,200.94       \$ (2,317,098.40)         Interest on Offsite Levy Receipts       \$ 502.16       \$ (2,317,098.40)         Interest on Debenture Accrual       \$ -       \$ (2,317,098.40)         Post       \$ (2,317,098.40)       \$ (2,317,098.40)         Interest on Opening Balance       \$ 75,305.70       \$ (2,392,404.10)         Withdrawal Applied to Project Expenditures       \$ (11,550.00)       \$ (2,380,854.10)         Offsite Levy Receipts       \$ 74,503.67       \$ (2,352,481.53)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ -       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ -       \$ (2,352,481.53)         Interest on Project Expenditure       \$ -       \$ (2,352,481.53)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)  |   |    |            |    |                             |
| Offsite Levy Receipts       \$ 100,431.73       \$ (2,316,399.61)         Other Receipts       \$ -       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ 1,200.94       \$ (2,317,600.56)         Interest on Offsite Levy Receipts       \$ 502.16       \$ (2,317,098.40)         Interest on Other Receipts       \$ -       \$ (2,317,098.40)         Interest on Debenture Accrual       \$ 75,305.70       \$ (2,317,098.40)         Withdrawal Applied to Project Expenditures       \$ (11,550.00)       \$ (2,389,854.10)         Other Receipts       \$ (4,131.10)       \$ (2,426,985.20)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ -       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ -       \$ (2,352,481.53)         Interest on Project Expenditure       \$ -       \$ (2,352,481.53)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)  |   |    |            | \$ |                             |
| Other Receipts       \$ -       \$ (2,316,399.61)         Debenture Interest Expenditure       \$ -       \$ (2,316,399.61)         Interest on Project Expenditure       \$ 1,200.94       \$ (2,317,600.56)         Interest on Offsite Levy Receipts       \$ 502.16       \$ (2,317,098.40)         Interest on Debenture Accrual       \$ -       \$ (2,317,098.40)         Possible Levy Receipts       \$ (2,317,098.40)       \$ (2,317,098.40)         Withdrawal Applied to Project Expenditures       \$ (2,317,098.40)       \$ (2,317,098.40)         Withdrawal Applied to Project Expenditures       \$ (11,550.00)       \$ (2,392,404.10)         Offer Receipts       \$ (11,550.00)       \$ (2,380,854.10)         Offsite Levy Receipts       \$ 46,131.10       \$ (2,426,985.20)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ (2,352,481.53)         Interest on Project Expenditure       \$ (2,352,762.50)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)  | OSL Share of Expenditures in Addition to Allocations (Front-ending) |    |            | \$ | 28,550.93 \$ (2,416,831.35) |
| Debenture Interest Expenditure   \$ - \$ (2,316,399.61)     Interest on Project Expenditure   \$ 1,200.94 \$ (2,317,600.56)     Interest on Offsite Levy Receipts   \$ 502.16 \$ (2,317,098.40)     Interest on Other Receipts   \$ - \$ (2,317,098.40)     Interest on Debenture Accrual   \$ - \$ (2,317,098.40)     Interest on Opening Balance   \$ 75,305.70 \$ (2,392,404.10)     Withdrawal Applied to Project Expenditures   \$ (11,550.00) \$ (2,380,854.10)     Other Receipts   \$ 46,131.10 \$ (2,426,985.20)     Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)   \$ - \$ (2,352,481.53)     Debenture Interest Expenditure   \$ - \$ (2,352,481.53)     Interest on Project Expenditure   \$ 372.52 \$ (2,352,389.98)     Interest on Offsite Levy Receipts   \$ 372.52 \$ (2,352,389.98)  | Offsite Levy Receipts   | \$ | 100,431.73 |    | \$ (2,316,399.61)           |
| Debenture Interest Expenditure   \$ - \$ (2,316,399.61)     Interest on Project Expenditure   \$ 1,200.94 \$ (2,317,600.56)     Interest on Offsite Levy Receipts   \$ 502.16 \$ (2,317,098.40)     Interest on Other Receipts   \$ - \$ (2,317,098.40)     Interest on Debenture Accrual   \$ - \$ (2,317,098.40)     Interest on Opening Balance   \$ 75,305.70 \$ (2,392,404.10)     Withdrawal Applied to Project Expenditures   \$ (11,550.00) \$ (2,380,854.10)     Other Receipts   \$ 46,131.10 \$ (2,426,985.20)     Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)   \$ - \$ (2,352,481.53)     Debenture Interest Expenditure   \$ - \$ (2,352,481.53)     Interest on Project Expenditure   \$ 372.52 \$ (2,352,389.98)     Interest on Offsite Levy Receipts   \$ 372.52 \$ (2,352,389.98)  | Other Receipts  | \$ | -          |    | \$ (2,316,399.61)           |
| Interest on Project Expenditure \$ 1,200.94 \$ (2,317,600.56) Interest on Offsite Levy Receipts \$ 502.16 \$ (2,317,098.40) Interest on Other Receipts \$ - \$ (2,317,098.40) Interest on Debenture Accrual \$ - \$ (2,317,098.40)  2020 \$ (2,317,098.40) Interest on Opening Balance \$ 75,305.70 \$ (2,392,404.10) Withdrawal Applied to Project Expenditures \$ (11,550.00) \$ (2,380,854.10) Other Receipts \$ 46,131.10 \$ (2,426,985.20) Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any) \$ - \$ (2,352,481.53) Debenture Interest Expenditure \$ - \$ (2,352,481.53) Interest on Project Expenditure \$ - \$ (2,352,762.50) Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)   | Debenture Interest Expenditure                                      |    |            | \$ |                             |
| Interest on Offsite Levy Receipts   \$ 502.16   \$ (2,317,098.40)     Interest on Other Receipts   \$ - \$ (2,317,098.40)     Interest on Debenture Accrual   \$ - \$ (2,317,098.40)     Interest on Debenture Accrual   \$ - \$ (2,317,098.40)     Interest on Opening Balance   \$ 75,305.70   \$ (2,392,404.10)     Withdrawal Applied to Project Expenditures   \$ (11,550.00) \$ (2,380,854.10)     Other Receipts   \$ 46,131.10 \$ (2,426,985.20)     Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)   \$ - \$ (2,352,481.53)     Debenture Interest Expenditure   \$ - \$ (2,352,481.53)     Interest on Project Expenditure   \$ 280.97 \$ (2,352,762.50)     Interest on Offsite Levy Receipts   \$ 372.52 \$ (2,352,389.98)   |   |    |            |    |                             |
| Interest on Other Receipts  |   | \$ | 502.16     |    |                             |
| Sample   S  |   |    |            |    |                             |
| 2020 Interest on Opening Balance Withdrawal Applied to Project Expenditures Other Receipts Offsite Levy Receipts Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any) Debenture Interest Expenditure Interest on Project Expenditure Interest on Offsite Levy Receipts  \$ (2,317,098.40) \$ (2,392,404.10) \$ (2,380,854.10) \$ (2,426,985.20) \$ (2,352,481.53) \$ (2,352,481.53)  Debenture Interest Expenditure \$ (2,352,481.53) Interest on Project Expenditure \$ 280.97 \$ (2,352,762.50) Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)  |   | Ψ  |            | Ф  |                             |
| Interest on Opening Balance \$ 75,305.70 \$ (2,392,404.10) Withdrawal Applied to Project Expenditures \$ (11,550.00) \$ (2,380,854.10) Other Receipts \$ 46,131.10 \$ (2,426,985.20) Offsite Levy Receipts \$ 74,503.67 \$ (2,352,481.53) Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any) \$ - \$ (2,352,481.53) Debenture Interest Expenditure \$ - \$ (2,352,481.53) Interest on Project Expenditure \$ 280.97 \$ (2,352,762.50) Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)  | Interest on Deponiture Accidan                                      |    |            | Ψ  | ψ (2,017,990.40)            |
| Interest on Opening Balance \$ 75,305.70 \$ (2,392,404.10) Withdrawal Applied to Project Expenditures \$ (11,550.00) \$ (2,380,854.10) Other Receipts \$ 46,131.10 \$ (2,426,985.20) Offsite Levy Receipts \$ 74,503.67 \$ (2,352,481.53) Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any) \$ - \$ (2,352,481.53) Debenture Interest Expenditure \$ - \$ (2,352,481.53) Interest on Project Expenditure \$ 280.97 \$ (2,352,762.50) Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)  | 2020  |    |            |    | \$ (2,317,098.40)           |
| Withdrawal Applied to Project Expenditures       \$ (11,550.00)       \$ (2,380,854.10)         Other Receipts       \$ 46,131.10       \$ (2,426,985.20)         Offsite Levy Receipts       \$ 74,503.67       \$ (2,352,481.53)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ (2,352,481.53)         Interest on Project Expenditure       \$ 280.97       \$ (2,352,762.50)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)   |   |    |            | \$ |                             |
| Other Receipts       \$ 46,131.10       \$ (2,426,985.20)         Offsite Levy Receipts       \$ 74,503.67       \$ (2,352,481.53)         Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ - \$ (2,352,481.53)         Interest on Project Expenditure       \$ 280.97       \$ (2,352,762.50)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)  |   |    |            |    |                             |
| Offsite Levy Receipts         \$ 74,503.67         \$ (2,352,481.53)           Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any)         \$ -         \$ (2,352,481.53)           Debenture Interest Expenditure         \$ -         \$ (2,352,481.53)           Interest on Project Expenditure         \$ 280.97         \$ (2,352,762.50)           Interest on Offsite Levy Receipts         \$ 372.52         \$ (2,352,389.98)   |   |    |            |    |                             |
| Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if any) \$ - \$ (2,352,481.53)  Debenture Interest Expenditure \$ - \$ (2,352,481.53)  Interest on Project Expenditure \$ 280.97 \$ (2,352,762.50)  Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)   |   | Ф  | 74 503 67  | Ψ  |                             |
| any)       \$ -       \$ (2,352,481.53)         Debenture Interest Expenditure       \$ -       \$ (2,352,481.53)         Interest on Project Expenditure       \$ 280.97       \$ (2,352,762.50)         Interest on Offsite Levy Receipts       \$ 372.52       \$ (2,352,389.98)   |   | Ψ  | 14,505.07  |    | φ (2,002,401.00)            |
| Debenture Interest Expenditure         \$ - \$(2,352,481.53)           Interest on Project Expenditure         \$ 280.97 \$(2,352,762.50)           Interest on Offsite Levy Receipts         \$ 372.52         \$ (2,352,389.98)   |   | Φ. |            |    | φ (0.0E0.404.E0)            |
| Interest on Project Expenditure         \$ 280.97         \$ (2,352,762.50)           Interest on Offsite Levy Receipts         \$ 372.52         \$ (2,352,389.98)   |   | ф  | -          | Φ  |                             |
| Interest on Offsite Levy Receipts \$ 372.52 \$ (2,352,389.98)   |   | -  |            |    |                             |
|   |   |    |            | \$ |                             |
| Interest on Other Receipts \$\\$\ \\$\ - \\$\\$\ (2.352.389.98)   |   |    | 372.52     |    | , , , ,                     |
|   |   | \$ | -          |    | \$ (2,352,389.98)           |
| Interest on Debenture Accrual \$ - \$\\$(2,352,389.98)  | Interest on Debenture Accrual                                       |    |            | \$ | - \$ (2,352,389.98)         |

#### **B9.** Development and Transportation Infrastructure Staging Impacts

Transportation offsite infrastructure will be constructed in staged fashion over the 25-year review period. We have reviewed the availability of offsite levy funds to meet these construction requirements and found that offsite levy reserve funds will not be sufficient to pay for construction of transportation infrastructure from time to time—front ending of infrastructure will be required. A front-ender is the party that constructs and pays up front for infrastructure that benefits other parties.

To compensate parties for capital they provide in front-ending offsite infrastructure construction, a **2.09**% interest allowance has been charged to the reserve when it is forecast to be in a negative balance. Further, a **1.00**% interest credit has been provided to the reserve when it is forecast to be in a positive balance. The graph and table below outline the forecast transportation levy reserve balances over the 25-year development period.

If necessary, an interest staging adjustment has been applied to rates (slightly positive or slightly negative) to ensure that the forecast reserve balance at the end of the 25-year review period always returns to break-even (i.e., developers are not charged too much thereby providing a windfall to the County, nor are they charged too little thereby placing an unequitable burden on taxpayers).



Anticipated Transportation Offsite Levy Reserve Balances

<sup>&</sup>lt;sup>6</sup> The 20-year debenture rate at the Alberta Capital Finance Authority at the time of writing was ~2.09%. Historic charge rates used in the model are 3.00% (2013-2018), 3.25% (2019-2020).

<sup>&</sup>lt;sup>7</sup> Historic earning rates used in the model are 2.00% (2013-2014), 1.00% (2015-2020).

# Anticipated Transportation Offsite Levy Reserve Balances

|      |                 | Reserve Balance |             |    |           |    | (2,352,390) |
|------|-----------------|-----------------|-------------|----|-----------|----|-------------|
| Year | Receipts        |                 | Expenditure |    | Interest  |    | Balance     |
| 2021 | \$<br>-         | \$              | 3,190,670   | \$ | (115,850) | \$ | (5,658,910) |
| 2022 | \$<br>-         | \$              | 24,643      | \$ | (118,786) | \$ | (5,802,340) |
| 2023 | \$<br>935,992   | \$              | 4,393,480   | \$ | (193,530) | \$ | (9,453,358) |
| 2024 | \$<br>964,072   | \$              | 6,472       | \$ | (177,561) | \$ | (8,673,321) |
| 2025 | \$<br>1,779,303 | \$              | 2,626,896   | \$ | (198,987) | \$ | (9,719,901) |
| 2026 | \$<br>1,924,673 | \$              | -           | \$ | (162,920) | \$ | (7,958,148) |
| 2027 | \$<br>1,636,940 | \$              | -           | \$ | (132,113) | \$ | (6,453,321) |
| 2028 | \$<br>1,097,188 | \$              | -           | \$ | (111,943) | \$ | (5,468,076) |
| 2029 | \$<br>942,475   | \$              | -           | \$ | (94,585)  | \$ | (4,620,187) |
| 2030 | \$<br>446,854   | \$              | 1,210,204   | \$ | (112,516) | \$ | (5,496,053) |
| 2031 | \$<br>1,455,718 | \$              | 1,806,581   | \$ | (122,201) | \$ | (5,969,117) |
| 2032 | \$<br>1,499,389 | \$              | -           | \$ | (93,417)  | \$ | (4,563,145) |
| 2033 | \$<br>1,497,166 | \$              | 934,168     | \$ | (83,603)  | \$ | (4,083,749) |
| 2034 | \$<br>1,551,530 | \$              | 1,052,853   | \$ | (74,928)  | \$ | (3,660,000) |
| 2035 | \$<br>477,679   | \$              | -           | \$ | (66,511)  | \$ | (3,248,832) |
| 2036 | \$<br>491,592   | \$              | -           | \$ | (57,626)  | \$ | (2,814,866) |
| 2037 | \$<br>868,779   | \$              | -           | \$ | (40,673)  | \$ | (1,986,761) |
| 2038 | \$<br>894,842   | \$              | -           | \$ | (22,821)  | \$ | (1,114,739) |
| 2039 | \$<br>921,688   | \$              | 1,801,873   | \$ | (41,694)  | \$ | (2,036,619) |
| 2040 | \$<br>949,573   | \$              | 1,885,743   | \$ | (62,131)  | \$ | (3,034,920) |
| 2041 | \$<br>999,607   | \$              | -           | \$ | (42,538)  | \$ | (2,077,851) |
| 2042 | \$<br>686,480   | \$              | -           | \$ | (29,080)  | \$ | (1,420,451) |
| 2043 | \$<br>707,074   | \$              | -           | \$ | (14,910)  | \$ | (728,286)   |
| 2044 | \$<br>728,286   | \$              | -           | \$ | (0)       | \$ | (0)         |
| 2045 | \$<br>-         | \$              | -           | \$ | (0)       | \$ | (0)         |

#### **APPENDIX C: WATER**

#### C1. Water Offsite Infrastructure

In order to support future growth, water offsite infrastructure is required. The estimated cost of this infrastructure is based upon: (a) actual construction costs to the cut-off date, (b) future debenture interest associated with financing, and (c) future cost estimates. Total cost is approximately **\$30.83 million** as outlined in the table below. Actual costs, debenture interest (if any), and cost estimates were provided by County staff. It is important to note that these costs represent "gross" costs, of which only a portion will go to support development during the 25-year review period. The remainder of this section outlines how the "net" costs for development are determined.

#### Summary of Water Offsite Infrastructure

| Item | Project Description                                      | Cost | of Completed<br>Work | Fu | ture Debenture<br>Interest | _  | timated Cost of<br>Vork Yet to be<br>Completed | Total Project stimated Cost |
|------|--|------|----------------------|----|----------------------------|----|--|-----------------------------|
| 1    | SIP Pumpstation Improvement                              | \$   | 1,508,467            | \$ | -                          | \$ | -  | \$<br>1,508,467             |
| 2    | SIP Reservoir Expansion 3000m3                           | \$   | 2,107,272            | \$ | -                          | \$ | -  | \$<br>2,107,272             |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)              | \$   | 1,980,100            | \$ | -                          | \$ |  | \$<br>1,980,100             |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)    | \$   | 246,984              | \$ | 28,274                     | \$ | -  | \$<br>275,258               |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)    | \$   | 187,107              | \$ | 21,421                     | \$ |  | \$<br>208,529               |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)   | \$   | 82,328               | \$ | 9,425                      | \$ |  | \$<br>91,753                |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe)  | \$   | 149,683              | \$ | 17,140                     | \$ |  | \$<br>166,823               |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe)  | \$   | 416,685              | \$ | -                          | \$ |  | \$<br>416,685               |
| 9    | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)     | \$   | 416,685              | \$ | -                          | \$ |  | \$<br>416,685               |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)        | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 11   | Highway 825 350mm Pipe (North of Estate Way to Twp 553)  | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)            | \$   | -                    | \$ | -                          | \$ | 1,129,549                                      | \$<br>1,129,549             |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                  | \$   | -                    | \$ | -                          | \$ | 376,516  | \$<br>376,516               |
| 14   | RR225 400mm Pipe (Twp 553 North 0.5 mile)                | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)           | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)                | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                   | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                      | \$   | -                    | \$ | -                          | \$ | 753,033  | \$<br>753,033               |
| 19   | RR225 350mm Pipe(South replacing Herder Co-op Line)      | \$   | -                    | \$ | -                          | \$ | 1,694,324                                      | \$<br>1,694,324             |
| 20   | SIP Reservoir Expansion                                  | \$   | -                    | \$ | -                          | \$ | 5,499,936                                      | \$<br>5,499,936             |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing              | \$   | -                    | \$ | -                          | \$ | 4,188,745                                      | \$<br>4,188,745             |
| 22   | SIP Reservoir Expansion - Stage 3                        | \$   | -                    | \$ | -                          | \$ | 5,499,936                                      | \$<br>5,499,936             |
| 100  | Contributions collected under old development agreements | \$   | -                    | \$ | -                          | \$ | -  | \$<br>-                     |
|      |  | \$   | 7,095,311            | \$ | 76,260                     | \$ | 23,660,235                                     | \$<br>30,831,806            |

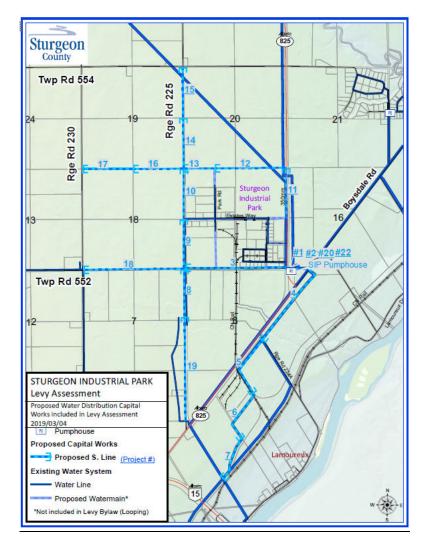
<sup>\*</sup>Past expenditures include past financing expenditures (interest) if any.

<sup>\*\*</sup>Costs estimates provided by County staff.

<sup>\*\*\*</sup>Estimates include engineering and contingencies.

<sup>\*\*\*\*\*</sup>Transfers or contributions stemming from Development Agreements were set-up as an individual project (#100) and credited 100% to future development and to all offsite levy areas (see *Section C5*).

<sup>\*\*\*\*\*\*</sup>Offsite infrastructure definitions are contained in Appendix F.



### C2. Water Offsite Infrastructure Grants & Contributions to Date

The MGA enables the County to allocate the costs of offsite infrastructure to development, other than those costs that have been provided by way of special ear-marked grant or contribution (i.e., contributed infrastructure). The County has/will receive approximately **\$0.00** in special ear-marked grants and contributions for water offsite levy infrastructure as shown in the table below (note, if the County receives other ear-marked grants or contributions in the future, it will be reflected in one of the annual updates and rates adjusted accordingly). The result is that the total reduced project estimated cost is **\$30.83 million**.

## Special Grants and Contributions for Water Offsite Infrastructure

| Item | Project Description                                      | otal Project<br>imated Cost | ecial Provincial<br>ants (Historic &<br>Future) | Developer<br>Agreement<br>Contributions<br>istoric & Future) | Other<br>Contribution<br>(Historic & Fu |   | F  | educed Project<br>stimated Cost |
|------|--|-----------------------------|---|--|---|---|----|---------------------------------|
| 1    | SIP Pumpstation Improvement                              | \$<br>1,508,467             | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 1,508,467                       |
| 2    | SIP Reservoir Expansion 3000m3                           | \$<br>2,107,272             | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 2,107,272                       |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)              | \$<br>1,980,100             | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 1,980,100                       |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)    | \$<br>275,258               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 275,258                         |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)    | \$<br>208,529               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 208,529                         |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)   | \$<br>91,753                | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 91,753                          |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe)  | \$                          | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 166,823                         |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe)  | \$<br>416,685               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 416,685                         |
|      | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)     | \$<br>416,685               | -   | \$<br>-  | \$                                      | - | \$ | 416,685                         |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)        | \$<br>753,033               | -   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
|      | Highway 825 350mm Pipe (North of Estate Way to Twp 553)  | \$                          | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)            | \$<br>1,129,549             | -   | \$<br>-  | \$                                      | - | \$ | 1,129,549                       |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                  | \$<br>376,516               | -   | \$<br>-  | \$                                      | - | \$ | 376,516                         |
|      | RR225 400mm Pipe (Twp 553 North 0.5 mile)                | \$                          | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)           | \$<br>753,033               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)                | \$<br>753,033               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                   | \$<br>753,033               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                      | \$<br>753,033               | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 753,033                         |
|      | RR225 350mm Pipe(South replacing Herder Co-op Line)      | \$<br>1,694,324             | -   | \$<br>-  | \$                                      | - | \$ | 1,694,324                       |
| 20   | SIP Reservoir Expansion                                  | \$<br>5,499,936             | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 5,499,936                       |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing              | \$<br>4,188,745             | -   | \$<br>-  | \$                                      | - | \$ | 4,188,745                       |
| 22   | SIP Reservoir Expansion - Stage 3                        | \$<br>5,499,936             | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 5,499,936                       |
| 100  | Contributions collected under old development agreements | \$<br>-                     | \$<br>-   | \$<br>-  | \$                                      | - | \$ | -                               |
|      |  | \$<br>30,831,806            | \$<br>-   | \$<br>-  | \$                                      | - | \$ | 30,831,806                      |

## C3. Year of Construction

The timing of construction is used to determine the impact of inflation on cost, the impact of forecast reserve balances, and the estimate of financial oversizing (described in the Section that follows). The County anticipates construction of offsite infrastructure as outlined in the table below. Note, if this schedule is adjusted in the future, it will be reflected in one of the County's annual rate/bylaw updates.

#### Forecast Year of Construction

| Item | Project Description                                     | Construction Start<br>Year |
|------|---|----------------------------|
| 1    | SIP Pumpstation Improvement                             | 2012                       |
| 2    | SIP Reservoir Expansion 3000m3                          | 2012                       |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)             | 2012                       |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)   | 2013                       |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)   | 2013                       |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)  | 2013                       |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe) | 2013                       |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe) | 2013                       |
| 9    | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)    | 2013                       |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)       | 2033                       |
| 11   | Highway 825 350mm Pipe (North of Estate Way to Twp 553) | 2026                       |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)           | 2026                       |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                 | 2033                       |
| 14   | RR225 400mm Pipe (Twp 553 North 0.5 mile)               | 2037                       |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)          | 2050                       |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)               | 2050                       |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                  | 2050                       |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                     | 2032                       |
| 19   | RR225 350mm Pipe(South replacing Herder Co-op Line)     | 2025                       |
| 20   | SIP Reservoir Expansion                                 | 2034                       |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing             | 2029                       |
| 22   | SIP Reservoir Expansion - Stage 3                       | 2050                       |

<sup>\*</sup>The share of projects constructed beyond the 25-year review period are not included in rates today (see financial oversizing in next section).

# C4. Water Offsite Infrastructure Benefiting Parties

The water offsite infrastructure previously outlined will benefit various parties to varying degrees. Three potential benefiting parties were identified including:

- 1. Sturgeon County a portion of the water infrastructure which is required to service existing residents. This residual benefit is determined at the point in time when the project is added to the bylaw (i.e., it does not fluctuate from year-to-year).
- 2. Other Stakeholders other municipalities that benefit from the infrastructure.
- 3. Future Development:
  - Financial Oversizing that portion of cost (i.e., levyable water infrastructure costs) which benefits future development beyond the 25-year review period.
  - In Rates that portion of cost (i.e., levyable water infrastructure costs)
     which benefits future development within the 25-year review period.

The table below outlines the allocation of water offsite levy infrastructure costs to benefiting parties.

<sup>\*\*</sup>Project costs are inflated by 2% per annum to 2022 and 3% per annum thereafter to the year of construction.

#### Allocation of Water Infrastructure to Benefiting Parties

| Item | Project Description                                      | uced Project<br>mated Cost | Muni Share % | Other Stakeholder<br>Share | Developer Share<br>Beyond 25 Yrs<br>(Financial<br>Oversizing %) | OSL / Developer<br>Share % |
|------|--|----------------------------|--------------|----------------------------|---|----------------------------|
| 1    | SIP Pumpstation Improvement                              | \$<br>1,508,467            | 20.0%        |                            | 0.0%  | 80.0%                      |
| 2    | SIP Reservoir Expansion 3000m3                           | \$<br>2,107,272            | 20.0%        |                            | 0.0%  | 80.0%                      |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)              | \$<br>1,980,100            | 20.0%        |                            | 0.0%  | 80.0%                      |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)    | \$<br>275,258              | 39.0%        |                            | 0.0%  | 61.0%                      |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)    | \$<br>208,529              | 39.0%        |                            | 0.0%  | 61.0%                      |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)   | \$<br>91,753               | 39.0%        |                            | 0.0%  | 61.0%                      |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe)  | \$<br>166,823              | 39.0%        |                            | 0.0%  | 61.0%                      |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe)  | \$<br>416,685              | 39.0%        |                            | 0.0%  | 61.0%                      |
| 9    | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)     | \$<br>416,685              | 12.0%        |                            | 0.0%  | 88.0%                      |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)        | \$<br>753,033              | 12.0%        |                            | 42.2%   | 45.8%                      |
| 11   | Highway 825 350mm Pipe (North of Estate Way to Twp 553)  | \$<br>753,033              | 12.0%        |                            | 17.6%   | 70.4%                      |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)            | \$<br>1,129,549            | 12.0%        |                            | 17.6%   | 70.4%                      |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                  | \$<br>376,516              | 12.0%        |                            | 42.2%   | 45.8%                      |
| 14   | RR225 400mm Pipe (Twp 553 North 0.5 mile)                | \$<br>753,033              | 4.0%         |                            | 61.4%   | 34.6%                      |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)           | \$<br>753,033              | 4.0%         |                            | 96.0%   | 0.0%                       |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)                | \$<br>753,033              | 3.0%         |                            | 97.0%   | 0.0%                       |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                   | \$<br>753,033              | 3.0%         |                            | 97.0%   | 0.0%                       |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                      | \$<br>753,033              | 3.0%         |                            | 42.7%   | 54.3%                      |
| 19   | RR225 350mm Pipe(South replacing Herder Co-op Line)      | \$<br>1,694,324            | 39.0%        |                            | 9.8%  | 51.2%                      |
| 20   | SIP Reservoir Expansion                                  | \$<br>5,499,936            | 20.0%        |                            | 41.6%   | 38.4%                      |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing              | \$<br>4,188,745            | 39.0%        |                            | 19.5%   | 41.5%                      |
| 22   | SIP Reservoir Expansion - Stage 3                        | \$<br>5,499,936            |              |                            | 100.0%  | 0.0%                       |
| 100  | Contributions collected under old development agreements | \$<br>-                    |              |                            | 0.0%  | 100.0%                     |
|      |  | \$<br>30,831,806           |              |                            |   |                            |

<sup>\*</sup>Allocations were determined by County staff.

# C5. Existing Receipts & Adjusted Levy Cost

Using the offsite levy share percentages shown in the previous section and applying those percentages to project costs results in an offsite levy cost of approximately \$12.78 million. However, prior to allocating these costs to benefiting areas, existing offsite levy receipts collected from developers need to be considered in determining the residual/net costs to developers. County staff have advised that approximately \$1.47 million in water levies have been applied/collected as shown in the table below. This results in an adjusted offsite levy cost of approximately \$11.31 million.

<sup>\*\*</sup>Financial oversizing is determined by separating out the pro rata portion of developer cost beyond the 25-year review period, in comparison with the anticipated year of construction. As the years move forward and rates are updated, these additional developer costs will be included in rate calculations. For example, a project which is slated to be constructed in year 20 of the 25-year review period will have 20% (5/25) of its costs in rates today, and 80% (20/25) of its costs will sit beyond the 25-year review period.

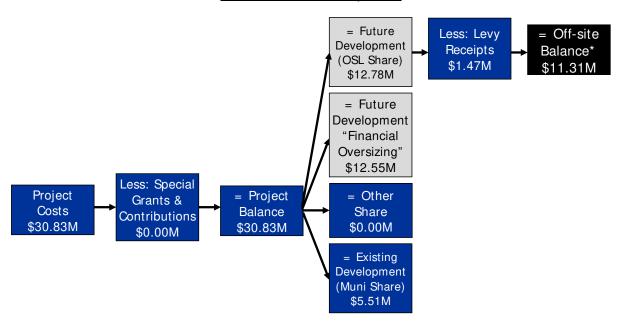
### Offsite Levy Funds Applied to Date

| Item | Project Description                                      | 05 | SL / Developer<br>Cost | Offsite Levy<br>unds Collected | Adjusted<br>Developer (Levy)<br>Cost |            |  |
|------|--|----|------------------------|--------------------------------|--------------------------------------|------------|--|
| 1    | SIP Pumpstation Improvement                              | \$ | 1,206,774              | \$<br>88,391                   | \$                                   | 1,118,383  |  |
| 2    | SIP Reservoir Expansion 3000m3                           | \$ | 1,685,818              | \$<br>125,488                  | \$                                   | 1,560,330  |  |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)              | \$ | 1,584,080              | \$<br>119,605                  | \$                                   | 1,464,475  |  |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)    | \$ | 167,907                | \$<br>38,751                   | \$                                   | 129,156    |  |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)    | \$ | 127,202                | \$<br>29,357                   | \$                                   | 97,845     |  |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)   | \$ | 55,969                 | \$<br>12,917                   | \$                                   | 43,052     |  |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe)  | \$ | 101,762                | \$<br>23,486                   | \$                                   | 78,276     |  |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe)  | \$ | 254,178                | \$<br>64,893                   | \$                                   | 189,285    |  |
| 9    | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)     | \$ | 366,683                | \$<br>6,240                    | \$                                   | 360,442    |  |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)        | \$ | 344,588                | \$<br>6,083                    | \$                                   | 338,505    |  |
| 11   | Highway 825 350mm Pipe (North of Estate Way to Twp 553)  | \$ | 530,135                | \$<br>8,996                    | \$                                   | 521,139    |  |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)            | \$ | 795,203                | \$<br>13,494                   | \$                                   | 781,709    |  |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                  | \$ | 172,294                | \$<br>3,041                    | \$                                   | 169,252    |  |
| 14   | RR225 400mm Pipe (Twp 553 North 0.5 mile)                | \$ | 260,248                | \$<br>-                        | \$                                   | 260,248    |  |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)           | \$ | -                      | \$<br>-                        | \$                                   | -          |  |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)                | \$ | -                      | \$<br>-                        | \$                                   | -          |  |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                   | \$ | -                      | \$<br>-                        | \$                                   | -          |  |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                      | \$ | 409,047                | \$<br>-                        | \$                                   | 409,047    |  |
| 19   | RR225 350mm Pipe(South replacing Herder Co-op Line)      | \$ | 868,171                | \$<br>218,653                  | \$                                   | 649,518    |  |
| 20   | SIP Reservoir Expansion                                  | \$ | 2,111,975              | \$<br>236,399                  | \$                                   | 1,875,576  |  |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing              | \$ | 1,737,491              | \$<br>421,068                  | \$                                   | 1,316,423  |  |
| 22   | SIP Reservoir Expansion - Stage 3                        | \$ | -                      | \$<br>57,465                   | \$                                   | (57,465)   |  |
| 100  | Contributions collected under old development agreements | \$ | -                      | \$<br>-                        | \$                                   | -          |  |
|      |  | \$ | 12,779,526             | \$<br>1,474,328                | \$                                   | 11,305,198 |  |

# C6. Summary of Water Offsite Levy Cost Flow-through

As shown in the figure below, the total cost for water infrastructure that forms the basis of the rate is approximately **\$11.31 million**. The cost allocations to each benefitting party are based on the benefitting percentages shown in previous section. The offsite levy balance (due from developers) is allocated to various benefitting areas (as described in the next section).

## Total Water Offsite Levy Costs



# C7. Water Infrastructure Benefiting Areas

Net developer costs for each project have been allocated to multiple benefiting offsite levy area (see tables below). Allocations are denoted with a "1" below applicable area numbers. Benefiting areas were determined by County staff. The lands anticipated to develop over the 25-years in each offsite levy benefitting area are used to determine rates.

## Water Allocations to Benefitting Areas

| Item | Project Description                                      | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | SIP Pumpstation Improvement                              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 2    | SIP Reservoir Expansion 3000m3                           | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 3    | Twp Road 552 350mm Boundary (Hwy 825-RR225)              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 4    | South Of Hwy 825 350mm Pipe (SIP Reservoir to RR224A)    |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 5    | South of Hwy 825 350mm Pipe (RR224A to Rail Crossing)    |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 6    | South of Hwy 825 350mm Pipe (Railcrossing to CN Lands)   |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 7    | South of Hwy 825 350mm Pipe (CN Lands to Existing Pipe)  |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 8    | RR225 350mm Pipe (South of Twp Rd 552 to Exisitng Pipe)  |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 9    | RR225 350mm Pipe (North of Twp Rd 552 to Estate Way)     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 10   | RR225 350mm Pipe (North of Estate Way to Twp 553)        | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 11   | Highway 825 350mm Pipe (North of Estate Way to Twp 553)  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12   | Twp 553 350mm Pipe (Highway 825 to Park Road)            | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13   | Twp 553 350mm Pipe (Park Road to RR225)                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14   | RR225 400mm Pipe (Twp 553 North 0.5 mile)                | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15   | RR225 400mm Pipe Twp 553 (North 0.5 to 1 mile)           | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16   | Twp 553 400mm Pipe (RR225 West 0.5 miles)                | 1   | 1   |     |     |     |     |     | 1   | 1   | 1    | 1    |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |
| 17   | Twp 553 400mm Pipe (West 0.5-1.0 mile)                   | 1   | 1   |     |     |     |     |     | 1   | 1   | 1    | 1    |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |
| 18   | Twp 552 150mm Pipe (RR225 to RR230)                      |     |     |     |     |     |     |     |     |     | 1    | 1    |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |
| 19   | RR225 350mm Pipe(South replacing Herder Co-op Line)      |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 20   | SIP Reservoir Expansion                                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 21   | Replace CRNWSC Line Projects 4-7 Oversizing              |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 22   | SIP Reservoir Expansion - Stage 3                        | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 100  | Contributions collected under old development agreements | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

#### C8. Reserve Balance

At December 31<sup>st</sup>, 2020 the water reserve balance was in a deficit of \$(4,986,253.60). This amount takes into consideration expenditures and front-ending repayments up to end-2020. A negative balance indicates the presence of front-ending—i.e., this amount is owed to the County from the levy account via future collections. The County's ledgers should be amended to reflect this balance as it includes expenditures to date. This balance assumes that all remaining cash in the account is withdrawn and used to pay down a portion of front-ending obligations owed to the County.

### Water Offsite Levy Reserve Balance

| Description   | Dr               | Cr                   | Balance              |
|---|------------------|----------------------|----------------------|
| Levies Collected to Dec 31, 2012                                    | \$<br>774,213.84 |                      | \$<br>774,213.84     |
| Levies Applied to Project Expenditures to Dec 31, 2012              |                  | \$<br>607,036.83     | \$<br>167,177.01     |
| Account Balance Per County GL Dec 31, 2012                          |                  |                      | \$<br>167,177.01     |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>(121,769.76)   | \$<br>288,946.77     |
| Closing Balance Dec 31, 2012  |                  |                      | \$<br>288,946.77     |
| 2013  |                  |                      | \$<br>288,946.77     |
| Interest on Opening Balance   | \$<br>5,778.94   |                      | \$<br>294,725.71     |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>2,503,515.21   | \$<br>(2,208,789.50  |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>890,784.24     | \$<br>(3,099,573.74  |
| Offsite Levy Receipts   | \$<br>253,872.84 |                      | \$<br>(2,845,700.90  |
| Other Receipts  | \$<br>-          |                      | \$<br>(2,845,700.90  |
| Debenture Interest Expenditure                                      |                  | \$<br>-              | \$<br>(2,845,700.90  |
| Interest on Project Expenditure                                     |                  | \$<br>25,457.25      | \$<br>(2,871,158.15  |
| Interest on Offsite Levy Receipts                                   | \$<br>2,538.73   |                      | \$<br>(2,868,619.42  |
| Interest on Other Receipts  | \$<br>-          |                      | (2,868,619.42)       |
| Interest on Debenture Accrual                                       |                  | \$<br>-              | \$<br>(2,868,619.42  |
| 2014  |                  |                      | \$<br>(2,868,619.42  |
| Interest on Opening Balance   |                  | \$<br>86,058.58      | \$<br>(2,954,678.00) |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>(2,314,629.83) | \$<br>(640,048.17    |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>3,796,977.31   | \$<br>(4,437,025.48) |
| Offsite Levy Receipts   | \$<br>128,384.35 |                      | \$<br>(4,308,641.13) |
| Other Receipts  | \$<br>-          |                      | \$<br>(4,308,641.13  |
| Debenture Interest Expenditure                                      |                  | \$<br>-              | \$<br>(4,308,641.13  |
| Interest on Project Expenditure                                     |                  | \$<br>11,117.61      | \$<br>(4,319,758.73) |
| Interest on Offsite Levy Receipts                                   | \$<br>1,283.84   |                      | \$<br>(4,318,474.89) |
| Interest on Other Receipts  | \$<br>-          |                      | \$<br>(4,318,474.89) |
| Interest on Debenture Accrual                                       |                  | \$<br>-              | \$<br>(4,318,474.89  |
| 2015  |                  |                      | \$<br>(4,318,474.89  |
| Interest on Opening Balance   |                  | \$<br>129,554.25     | \$<br>(4,448,029.14  |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>510.70         | \$<br>(4,448,539.84) |
| Other Receipts  |                  | \$<br>45,846.87      | \$<br>(4,494,386.71) |
| Offsite Levy Receipts   | \$<br>131,912.78 |                      | \$<br>(4,362,473.93  |
| Other Receipts  | \$<br>-          |                      | (4,362,473.93)       |
| Debenture Interest Expenditure                                      |                  | \$<br>-              | \$<br>(4,362,473.93  |
| Interest on Project Expenditure                                     |                  | \$<br>347.68         | (4,362,821.61)       |
| Interest on Offsite Levy Receipts                                   | \$<br>659.56     |                      | \$<br>(4,362,162.04  |
| Interest on Other Receipts  | \$<br>-          |                      | \$<br>(4,362,162.04  |
| Interest on Debenture Accrual                                       |                  | \$<br>-              | \$<br>(4,362,162.04) |

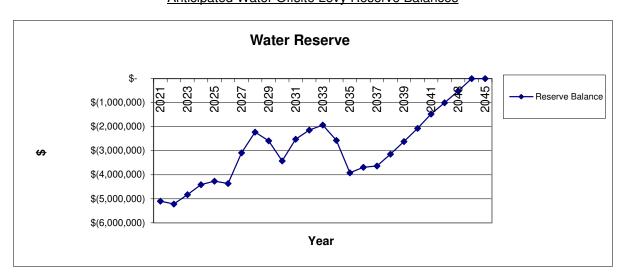
| 0040   |    |           | _  | <b>A</b> (4.000.400.04)      |
|--|----|-----------|----|------------------------------|
| 2016   |    |           | _  | \$ (4,362,162.04)            |
| Interest on Opening Balance  |    |           | \$ | 130,864.86 \$ (4,493,026.91) |
| Withdrawal Applied to Project Expenditures                           |    |           | \$ | - \$ (4,493,026.91)          |
| Other Receipts   |    |           | \$ | 43,961.17 \$ (4,536,988.08)  |
| Offsite Levy Receipts  | \$ | 20,210.98 |    | \$ (4,516,777.10)            |
| Other Receipts   | \$ | -         |    | \$ (4,516,777.10)            |
| Debenture Interest Expenditure                                       |    |           | \$ | - \$ (4,516,777.10)          |
| Interest on Project Expenditure                                      |    |           | \$ | 329.71 \$ (4,517,106.81)     |
| Interest on Offsite Levy Receipts                                    | \$ | 101.05    |    | \$ (4,517,005.75)            |
| Interest on Other Receipts   | \$ | _         |    | \$ (4,517,005.75)            |
| Interest on Debenture Accrual  | Ψ  |           | \$ | - \$ (4,517,005.75)          |
| The rest of Bosonia 7 footaa   |    |           | Ψ  | ψ (1,017,000.70)             |
| 2017   |    |           |    | \$ (4,517,005.75)            |
| Interest on Opening Balance  |    |           | \$ | 135,510.17 \$ (4,652,515.93) |
| Withdrawal Applied to Project Expenditures                           |    |           | \$ | - \$ (4,652,515.93)          |
| Other Receipts   |    |           | \$ | 14,455.96 \$ (4,666,971.89)  |
| Offsite Levy Receipts  | \$ | 78,782.40 | Ψ  | \$ (4,588,189.49)            |
| Interest on Other Receipts   | \$ | -         |    | \$ (4,588,189.49)            |
| Debenture Interest Expenditure                                       | Ψ  |           | \$ | - \$ (4,588,189.49)          |
| ·  |    |           |    |                              |
| Interest on Project Expenditure                                      | Φ. | 000.04    | \$ | 108.42 \$ (4,588,297.91)     |
| Interest on Offsite Levy Receipts                                    | \$ | 393.91    |    | \$ (4,587,904.00)            |
| Interest on Other Receipts   | \$ | -         | _  | \$ (4,587,904.00)            |
| Interest on Debenture Accrual  |    |           | \$ | - \$ (4,587,904.00)          |
| 2018   |    |           |    | ¢ (4 597 004 00)             |
|  |    |           | Φ. | \$ (4,587,904.00)            |
| Interest on Opening Balance  |    |           | \$ | 137,637.12 \$ (4,725,541.12) |
| Withdrawal Applied to Project Expenditures                           |    |           | \$ | - \$ (4,725,541.12)          |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)  |    |           | \$ | 13,446.80 \$ (4,738,987.92)  |
| Offsite Levy Receipts  | \$ | 21,605.77 |    | \$ (4,717,382.15)            |
| Other Receipts   | \$ | -         |    | \$ (4,717,382.15)            |
| Debenture Interest Expenditure                                       |    |           | \$ | - \$ (4,717,382.15)          |
| Interest on Project Expenditure                                      |    |           | \$ | 100.85 \$ (4,717,483.00)     |
| Interest on Offsite Levy Receipts                                    | \$ | 108.03    |    | \$ (4,717,374.97)            |
| Interest on Other Receipts   | \$ | -         |    | \$ (4,717,374.97)            |
| Interest on Debenture Accrual  |    |           | \$ | - \$ (4,717,374.97)          |
|  |    |           |    |                              |
| 2019   |    |           |    | \$ (4,717,374.97)            |
| Interest on Opening Balance  |    |           | \$ | 153,314.69 \$ (4,870,689.65) |
| Withdrawal Applied to Project Expenditures                           |    |           | \$ | - \$ (4,870,689.65)          |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)  |    |           | \$ | 12,401.12 \$ (4,883,090.77)  |
| Offsite Levy Receipts  | \$ | 42,247.77 |    | \$ (4,840,843.00)            |
| Other Receipts   | \$ | -         |    | \$ (4,840,843.00)            |
| Debenture Interest Expenditure                                       | Ψ  |           | \$ | - \$ (4,840,843.00)          |
| Interest on Project Expenditure                                      |    |           | \$ | 100.76 \$ (4,840,943.76)     |
| Interest on Offsite Levy Receipts                                    | \$ | 211.24    | Ψ  | \$ (4,840,732.52)            |
| Interest on Other Receipts   |    | 211.24    |    | \$ (4,840,732.52)            |
|  | \$ | -         | φ  |                              |
| Interest on Debenture Accrual  |    |           | \$ | - \$ (4,840,732.52)          |
| 2020   |    |           |    | \$ (4,840,732.52)            |
| Interest on Opening Balance  |    |           | \$ | 157,323.81 \$ (4,998,056.33) |
| Withdrawal Applied to Project Expenditures                           |    |           | \$ |                              |
|  |    |           |    | - \$ (4,998,056.33)          |
| Other Receipts   | •  | 00.000.00 | \$ | 11,317.60 \$ (5,009,373.93)  |
| Offsite Levy Receipts  | \$ | 23,096.80 |    | \$ (4,986,277.13)            |
| Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if | ١. |           |    |                              |
| any)   | \$ | -         |    | \$ (4,986,277.13)            |
| Debenture Interest Expenditure                                       |    |           | \$ | - \$ (4,986,277.13)          |
| Interest on Project Expenditure                                      |    |           | \$ | 91.96 \$ (4,986,369.09)      |
| Interest on Offsite Levy Receipts                                    | \$ | 115.48    |    | \$ (4,986,253.60)            |
| Interest on Other Receipts   | \$ | -         |    | \$ (4,986,253.60)            |
| Interest on Debenture Accrual  |    |           | \$ | - \$ (4,986,253.60)          |
|  |    |           |    | + ( :,:::,=:0:00)            |

## C9. Development and Water Infrastructure Staging Impacts

Water offsite infrastructure will be constructed in staged fashion over the 25-year review period. We have reviewed the availability of offsite levy funds to meet these construction requirements and found that offsite levy reserve funds will not be sufficient to pay for construction of water infrastructure from time to time—front ending of infrastructure will be required. A front-ender is the party that constructs and pays up front for infrastructure that benefits other parties.

To compensate parties for capital they provide in front-ending offsite infrastructure construction, a **2.09**% interest allowance has been charged to the reserve when it is forecast to be in a negative balance. Further, a **1.00**% interest credit has been provided to the reserve when it is forecast to be in a positive balance. The graph and table below outline the forecast water levy reserve balances over the 25-year development period.

If necessary, an interest staging adjustment has been applied to rates (slightly positive or slightly negative) to ensure that the forecast reserve balance at the end of the 25-year review period always returns to break-even (i.e., developers are not charged too much thereby providing a windfall to the County, nor are they charged too little thereby placing an unequitable burden on taxpayers).



Anticipated Water Offsite Levy Reserve Balances

<sup>&</sup>lt;sup>8</sup> The 20-year debenture rate at the Alberta Capital Finance Authority at the time of writing was ~2.09%. Historic charge rates used in the model are 3.00% (2013-2018), 3.25% (2019-2020).

<sup>&</sup>lt;sup>9</sup> Historic earning rates used in the model are 2.00% (2013-2014), 1.00% (2015-2020).

# Anticipated Water Offsite Levy Reserve Balances

|      |                 |                 | O  | pening Balance | \$<br>(4,986,254) |
|------|-----------------|-----------------|----|----------------|-------------------|
| Year | Receipts        | Expenditure     |    | Interest       | Balance           |
| 2021 | \$<br>-         | \$<br>9,057     | \$ | (104,402)      | \$<br>(5,099,712) |
| 2022 | \$<br>-         | \$<br>9,238     | \$ | (106,777)      | \$<br>(5,215,727) |
| 2023 | \$<br>494,227   | \$<br>4,711     | \$ | (98,778)       | \$<br>(4,824,990) |
| 2024 | \$<br>509,053   | \$<br>4,853     | \$ | (90,304)       | \$<br>(4,411,094) |
| 2025 | \$<br>1,193,334 | \$<br>963,252   | \$ | (87,383)       | \$<br>(4,268,394) |
| 2026 | \$<br>1,507,391 | \$<br>1,511,889 | \$ | (89,303)       | \$<br>(4,362,196) |
| 2027 | \$<br>1,345,211 | \$<br>5,303     | \$ | (63,166)       | \$<br>(3,085,453) |
| 2028 | \$<br>907,860   | \$<br>5,462     | \$ | (45,626)       | \$<br>(2,228,681) |
| 2029 | \$<br>775,442   | \$<br>1,084,861 | \$ | (53,046)       | \$<br>(2,591,147) |
| 2030 | \$<br>347,604   | \$<br>1,111,613 | \$ | (70,123)       | \$<br>(3,425,279) |
| 2031 | \$<br>952,829   | \$<br>-         | \$ | (51,674)       | \$<br>(2,524,124) |
| 2032 | \$<br>981,414   | \$<br>555,276   | \$ | (43,848)       | \$<br>(2,141,834) |
| 2033 | \$<br>970,690   | \$<br>722,709   | \$ | (39,582)       | \$<br>(1,933,436) |
| 2034 | \$<br>937,160   | \$<br>1,520,788 | \$ | (52,607)       | \$<br>(2,569,670) |
| 2035 | \$<br>295,826   | \$<br>1,566,412 | \$ | (80,261)       | \$<br>(3,920,517) |
| 2036 | \$<br>304,345   | \$<br>-         | \$ | (75,578)       | \$<br>(3,691,750) |
| 2037 | \$<br>541,414   | \$<br>409,552   | \$ | (74,402)       | \$<br>(3,634,290) |
| 2038 | \$<br>557,657   | \$<br>-         | \$ | (64,302)       | \$<br>(3,140,935) |
| 2039 | \$<br>574,386   | \$<br>-         | \$ | (53,641)       | \$<br>(2,620,189) |
| 2040 | \$<br>591,785   | \$<br>-         | \$ | (42,394)       | \$<br>(2,070,798) |
| 2041 | \$<br>624,846   | \$<br>-         | \$ | (30,220)       | \$<br>(1,476,173) |
| 2042 | \$<br>487,697   | \$<br>-         | \$ | (20,659)       | \$<br>(1,009,134) |
| 2043 | \$<br>502,328   | \$<br>-         | \$ | (10,592)       | \$<br>(517,398)   |
| 2044 | \$<br>517,398   | \$<br>-         | \$ | (0)            | \$<br>(0)         |
| 2045 | \$<br>-         | \$<br>-         | \$ | (0)            | \$<br>(0)         |

## APPENDIX D: SANITARY

# D1. Sanitary Offsite Infrastructure

In order to support future growth, sanitary offsite infrastructure is required. The estimated cost of this infrastructure is based upon: (a) actual construction costs to the cut-off date, (b) future debenture interest associated with financing, and (c) future cost estimates. Total cost is approximately **\$11.13 million** as outlined in the table below. Actual costs, debenture interest (if any), and cost estimates were provided by County staff. It is important to note that these costs represent "gross" costs, of which only a portion will go to support development during the 25-year review period. The remainder of this section outlines how the "net" costs for development are determined.

#### Summary of Sanitary Offsite Infrastructure

| Item | Project Description                                      |    | Project Description |    | Future Debenture |    | Estimated Cost of<br>Work Yet to be<br>Completed |    | otal Project<br>timated Cost |
|------|--|----|---------------------|----|------------------|----|--|----|------------------------------|
| 1    | 300mm Twp Rd 552 (1)                                     | \$ | 642,704             | \$ | -                | \$ | -  | \$ | 642,704                      |
| 2    | 250mm South of Hwy 825 (2)                               | \$ | 758,733             | \$ | 37,825           | \$ | -  | \$ | 796,558                      |
| 3    | 250mm South of Hwy 825 (3)                               | \$ | 446,913             | \$ | 23,069           | \$ | -  | \$ | 469,982                      |
| 4    | 250mm South of Hwy 825 (4)                               | \$ | 493,926             | \$ | 25,639           | \$ | -  | \$ | 519,565                      |
| 5    | 600mm Estate Way across RR225                            | \$ | 848,580             | \$ | -                | \$ | -  | \$ | 848,580                      |
| 6    | 375mm West of Estate Way                                 | \$ | -                   | \$ | -                | \$ | 864,042  | \$ | 864,042                      |
| 7    | 375mm North 3-10 to 3-09                                 | \$ | -                   | \$ | -                | \$ | 864,042  | \$ | 864,042                      |
| 8    | 250mm West   | \$ | -                   | \$ | -                | \$ | 712,835  | \$ | 712,835                      |
| 9    | 250mm NorthWest  | \$ | -                   | \$ | -                | \$ | 723,635  | \$ | 723,635                      |
| 10   | Forcemain North  | \$ | -                   | \$ | -                | \$ | 1,450,053  | \$ | 1,450,053                    |
| 11   | 250mm Gravity North of Forcemain                         | \$ | -                   | \$ | -                | \$ | 1,160,042  | \$ | 1,160,042                    |
| 12   | 250mm Gravity Far North                                  | \$ | -                   | \$ | -                | \$ | 648,032  | \$ | 648,032                      |
| 13   | Lift Station along Highway 825                           | \$ | -                   | \$ | -                | \$ | 1,430,533  | \$ | 1,430,533                    |
| 100  | Contributions collected under old development agreements | \$ | -                   | \$ | -                | \$ | -  | \$ | -                            |
|      |  | \$ | 3,190,856           | \$ | 86,534           | \$ | 7,853,214  | \$ | 11,130,604                   |

<sup>\*</sup>Past expenditures include past financing expenditures (interest) if any.

<sup>\*\*</sup>Costs estimates provided by County staff.

<sup>\*\*\*</sup>Estimates include engineering and contingencies.

<sup>\*\*\*\*</sup>Transfers or contributions stemming from Development Agreements were set-up as an individual project (#100) and credited 100% to future development and to all offsite levy areas (see *Section D5*).

<sup>\*\*\*\*\*</sup>Offsite infrastructure definitions are contained in Appendix F.



# D2. Sanitary Offsite Infrastructure Grants & Contributions to Date

The MGA enables the County to allocate the costs of offsite infrastructure to development, other than those costs that have been provided by way of special ear-marked grant or contribution (i.e., contributed infrastructure). Sturgeon County has/will receive approximately **\$0.48 million** in special ear-marked grants and contributions for sanitary offsite levy infrastructure as shown in the table below (note, if the County receives additional ear-marked grants or contributions in the future, it will be reflected in one of the annual updates and rates adjusted accordingly). The result is that the total reduced project estimated cost is **\$10.65 million**.

| Special Grants and Cor | tributions for | Sanitary | Offsite Infrastructure |
|------------------------|----------------|----------|------------------------|
|                        |                |          |                        |

| ltem | Project Description                                      | Total Project<br>Estimated Cost | Special Provincial<br>Grants (Historic &<br>Future) |      | Other<br>Contributions<br>(Historic &<br>Future) | Reduced Project<br>Estimated Cost |
|------|--|---------------------------------|---|------|--|-----------------------------------|
| 1    | 300mm Twp Rd 552 (1)                                     | \$ 642,704                      | \$ -  | \$ - | \$ -   | \$ 642,704                        |
| 2    | 250mm South of Hwy 825 (2)                               | \$ 796,558                      | \$ -  | \$ - | \$ -   | \$ 796,558                        |
| 3    | 250mm South of Hwy 825 (3)                               | \$ 469,982                      | \$ -  | \$ - | \$ -   | \$ 469,982                        |
| 4    | 250mm South of Hwy 825 (4)                               | \$ 519,565                      | \$ -  | \$ - | \$ -   | \$ 519,565                        |
| 5    | 600mm Estate Way across RR225                            | \$ 848,580                      | \$ -  | \$ - | \$ -   | \$ 848,580                        |
| 6    | 375mm West of Estate Way                                 | \$ 864,042                      | \$ -  | \$ - | \$ -   | \$ 864,042                        |
| 7    | 375mm North 3-10 to 3-09                                 | \$ 864,042                      | \$ -  | \$ - | \$ -   | \$ 864,042                        |
| 8    | 250mm West   | \$ 712,835                      | \$ -  | \$ - | \$ -   | \$ 712,835                        |
| 9    | 250mm NorthWest  | \$ 723,635                      | \$ -  | \$ - | \$ -   | \$ 723,635                        |
| 10   | Forcemain North  | \$ 1,450,053                    | \$ -  | \$ - | \$ -   | \$ 1,450,053                      |
| 11   | 250mm Gravity North of Forcemain                         | \$ 1,160,042                    | \$ -  | \$ - | \$ -   | \$ 1,160,042                      |
| 12   | 250mm Gravity Far North                                  | \$ 648,032                      | \$ -  | \$ - | \$ -   | \$ 648,032                        |
| 13   | Lift Station along Highway 825                           | \$ 1,430,533                    | \$ -  | \$ - | \$ -   | \$ 1,430,533                      |
| 100  | Contributions collected under old development agreements | \$ -                            | \$ -  | \$ - | \$ 475,680                                       | \$ (475,680)                      |
|      |  | \$ 11,130,604                   | \$ -  | \$ - | \$ 475,680                                       | \$ 10,654,924                     |

## D3. Year of Construction

The timing of construction is used to determine the impact of inflation on cost, the impact of forecast reserve balances, and the estimate of financial oversizing (described in the Section that follows). The County anticipates construction of offsite infrastructure as outlined in the table below. Note, if this schedule is adjusted in the future, it will be reflected in one of the County's annual rate/bylaw updates.

Forecast Year of Construction

| Item | Project Description              | Construction<br>Start Year |
|------|----------------------------------|----------------------------|
| 1    | 300mm Twp Rd 552 (1)             | 2013                       |
| 2    | 250mm South of Hwy 825 (2)       | 2013                       |
| 3    | 250mm South of Hwy 825 (3)       | 2013                       |
| 4    | 250mm South of Hwy 825 (4)       | 2013                       |
| 5    | 600mm Estate Way across RR225    | 2014                       |
| 6    | 375mm West of Estate Way         | 2030                       |
| 7    | 375mm North 3-10 to 3-09         | 2050                       |
| 8    | 250mm West                       | 2036                       |
| 9    | 250mm NorthWest                  | 2050                       |
| 10   | Forcemain North                  | 2050                       |
| 11   | 250mm Gravity North of Forcemain | 2050                       |
| 12   | 250mm Gravity Far North          | 2050                       |
| 13   | Lift Station along Highway 825   | 2050                       |

<sup>\*</sup>The share of projects constructed beyond the 25-year review period are not included in rates today (see financial oversizing in next section).

# D4. Sanitary Offsite Infrastructure Benefiting Parties

The sanitary offsite infrastructure previously outlined will benefit various parties to varying degrees. Three potential benefiting parties were identified including:

1. Sturgeon County – a portion of the sanitary infrastructure which is required to service

<sup>\*\*</sup>Project costs are inflated by 2% per annum to 2022 and 3% per annum thereafter to the year of construction.

existing residents. This residual benefit is determined at the point in time when the project is added to the bylaw (i.e., it does not fluctuate from year-to-year).

2. Other Stakeholders – other municipalities that benefit from the infrastructure.

#### 3. Future Development:

- Financial Oversizing that portion of cost (i.e., levyable sanitary infrastructure costs) which benefits future development beyond the 25-year review period.
- In Rates that portion of cost (i.e., levyable sanitary infrastructure costs) which benefits future development within the 25-year review period.

The table below outlines the allocation of sanitary offsite levy infrastructure costs to benefiting parties.

| Allocation | of Sanitary | Infrastructure to | Benefiting | Parties |
|------------|-------------|-------------------|------------|---------|
|            |             |                   |            |         |

| Item | Project Description                                      | Reduced Project<br>Estimated Cost | Muni Share % | Other Stakeholder<br>Share | Developer Share<br>Beyond 25 Yrs<br>(Financial<br>Oversizing %) | OSL / Developer<br>Share % |
|------|--|-----------------------------------|--------------|----------------------------|---|----------------------------|
| 1    | 300mm Twp Rd 552 (1)                                     | \$ 642,704                        |              |                            | 0.0%  | 100.0%                     |
| 2    | 250mm South of Hwy 825 (2)                               | \$ 796,558                        |              |                            | 0.0%  | 100.0%                     |
| 3    | 250mm South of Hwy 825 (3)                               | \$ 469,982                        |              |                            | 0.0%  | 100.0%                     |
| 4    | 250mm South of Hwy 825 (4)                               | \$ 519,565                        |              |                            | 0.0%  | 100.0%                     |
| 5    | 600mm Estate Way across RR225                            | \$ 848,580                        |              |                            | 0.0%  | 100.0%                     |
| 6    | 375mm West of Estate Way                                 | \$ 864,042                        |              |                            | 36.0%   | 64.0%                      |
| 7    | 375mm North 3-10 to 3-09                                 | \$ 864,042                        |              |                            | 100.0%  | 0.0%                       |
| 8    | 250mm West   | \$ 712,835                        |              |                            | 60.0%   | 40.0%                      |
| 9    | 250mm NorthWest  | \$ 723,635                        |              |                            | 100.0%  | 0.0%                       |
| 10   | Forcemain North  | \$ 1,450,053                      |              |                            | 100.0%  | 0.0%                       |
| 11   | 250mm Gravity North of Forcemain                         | \$ 1,160,042                      |              |                            | 100.0%  | 0.0%                       |
| 12   | 250mm Gravity Far North                                  | \$ 648,032                        |              |                            | 100.0%  | 0.0%                       |
| 13   | Lift Station along Highway 825                           | \$ 1,430,533                      |              |                            | 100.0%  | 0.0%                       |
| 100  | Contributions collected under old development agreements | \$ (475,680)                      |              |                            | 0.0%  | 100.0%                     |
|      |  | \$ 10,654,924                     |              |                            |   |                            |

<sup>\*</sup>Allocations were determined by County staff.

## **D5.** Existing Receipts & Adjusted Levy Cost

Using the offsite levy share percentages shown in the previous section and applying those percentages to project costs results in an offsite levy cost of approximately \$3.64 million. However, prior to allocating these costs to benefiting areas, existing offsite levy receipts collected from developers need to be considered in determining the residual/net costs to developers. County staff have advised that approximately \$0.64 million in sanitary levies have been applied/collected as shown in the table below. This results in an adjusted offsite levy cost of approximately \$3.00 million.

<sup>\*\*</sup>Financial oversizing is determined by separating out the pro rata portion of developer cost beyond the 25-year review period, in comparison with the anticipated year of construction. As the years move forward and rates are updated, these additional developer costs will be included in rate calculations. For example, a project which is slated to be constructed in year 20 of the 25-year review period will have 20% (5/25) of its costs in rates today, and 80% (20/25) of its costs will sit beyond the 25-year review period.

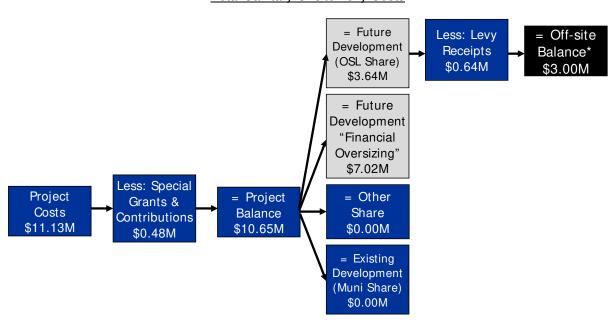
| Offsite Levy Fun | ds Applied to Date |
|------------------|--------------------|
|------------------|--------------------|

| Item | Project Description                                      | os | L / Developer<br>Cost | Offsite Levy<br>unds Collected | De | Adjusted<br>veloper (Levy)<br>Cost |
|------|--|----|-----------------------|--------------------------------|----|------------------------------------|
| 1    | 300mm Twp Rd 552 (1)                                     | \$ | 642,704               | \$<br>459,485                  | \$ | 183,220                            |
| 2    | 250mm South of Hwy 825 (2)                               | \$ | 796,558               | \$<br>70,941                   | \$ | 725,617                            |
| 3    | 250mm South of Hwy 825 (3)                               | \$ | 469,982               | \$<br>62,528                   | \$ | 407,455                            |
| 4    | 250mm South of Hwy 825 (4)                               | \$ | 519,565               | \$<br>-                        | \$ | 519,565                            |
| 5    | 600mm Estate Way across RR225                            | \$ | 848,580               | \$<br>46,281                   | \$ | 802,300                            |
| 6    | 375mm West of Estate Way                                 | \$ | 552,987               | \$<br>=                        | \$ | 552,987                            |
| 7    | 375mm North 3-10 to 3-09                                 | \$ | -                     | \$<br>=                        | \$ | -                                  |
| 8    | 250mm West   | \$ | 285,134               | \$<br>-                        | \$ | 285,134                            |
| 9    | 250mm NorthWest  | \$ | -                     | \$<br>-                        | \$ | 1                                  |
| 10   | Forcemain North  | \$ | -                     | \$<br>-                        | \$ | 1                                  |
| 11   | 250mm Gravity North of Forcemain                         | \$ | -                     | \$<br>-                        | \$ | -                                  |
| 12   | 250mm Gravity Far North                                  | \$ | -                     | \$<br>-                        | \$ | -                                  |
| 13   | Lift Station along Highway 825                           | \$ | -                     | \$<br>-                        | \$ | -                                  |
| 100  | Contributions collected under old development agreements | \$ | (475,680)             | \$<br>-                        | \$ | (475,680)                          |
|      |  | \$ | 3,639,831             | \$<br>639,234                  | \$ | 3,000,597                          |

# D6. Summary of Sanitary Offsite Levy Cost Flow-through

As shown in the figure below, the total costs for sanitary infrastructure that forms the basis of the rate is approximately **\$3.00 million**. The cost allocations to each benefitting party are based on the benefitting percentages shown in the previous section. The offsite levy balance (due from developers) is allocated to various benefitting areas (as described in the next section).

### Total Sanitary Offsite Levy Costs



# D7. Sanitary Infrastructure Benefiting Areas

Net developer costs for each project have been allocated to multiple benefiting offsite levy area (see tables below). Allocations are denoted with a "1" below applicable area numbers. Benefiting areas were determined by County staff. The lands anticipated to develop over the 25-years in each offsite levy benefitting area are used to determine rates.

## Sanitary Allocations to Benefitting Areas

| Item | Project Description                                      | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 300mm Twp Rd 552 (1)                                     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |      |
| 2    | 250mm South of Hwy 825 (2)                               |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |      |      |
| 3    | 250mm South of Hwy 825 (3)                               |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    |      |      |
| 4    | 250mm South of Hwy 825 (4)                               |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      | 1    | 1    | 1    | 1    |      |      |      | 1    |      |      |
| 5    | 600mm Estate Way across RR225                            |     |     |     |     |     |     |     | 1   | 1   | 1    | 1    | 1    |      |      | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |
| 6    | 375mm West of Estate Way                                 |     |     |     |     |     |     |     | 1   | 1   | 1    | 1    |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |
| 7    | 375mm North 3-10 to 3-09                                 |     |     |     |     |     |     |     | 1   | 1   | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8    | 250mm West   |     | 1   | 1   |     |     |     | 1   | 1   |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 9    | 250mm NorthWest  | 1   | 1   |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 10   | Forcemain North  |     |     | 1   | 1   | 1   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 11   | 250mm Gravity North of Forcemain                         |     |     | 1   | 1   |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12   | 250mm Gravity Far North                                  |     |     | 1   | 1   |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13   | Lift Station along Highway 825                           |     |     | 1   | 1   | 1   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | Contributions collected under old development agreements | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

#### **D8.** Reserve Balance

At December 31<sup>st</sup>, 2020 the sanitary reserve balance was at a deficit of \$(2,530,708.89). This amount takes into consideration expenditures and front-ending repayments up to end-2020. A negative balance indicates the presence of front-ending—i.e., this amount is owed to the County from the levy account via future collections. The County's ledgers should be amended to reflect this balance as it includes expenditures to date. This balance assumes that all remaining cash in the account is withdrawn and used to pay down a portion of front-ending obligations owed to the County.

## Sanitary Offsite Levy Reserve Balance

| Description   | Dr               | Cr                 |      | Balance       |
|---|------------------|--------------------|------|---------------|
| Levies Collected to Dec 31, 2012                                    | \$<br>613,949.83 |                    | \$   | 613,949.83    |
| Levies Applied to Project Expenditures to Dec 31, 2012              |                  | \$<br>34,687.62    | \$   | 579,262.21    |
| Account Balance Per County GL Dec 31, 2012                          |                  |                    | \$   | 579,262.21    |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>33,179.88    | \$   | 546,082.33    |
| Closing Balance Dec 31, 2012  |                  |                    | \$   | 546,082.33    |
| 2013  |                  |                    | \$   | 546,082.33    |
| Interest on Opening Balance   | \$<br>10,921.65  |                    | \$   | 557,003.98    |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>457,640.63   | \$   | 99,363.35     |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>1,390,829.17 | \$ ( | 1,291,465.82) |
| Offsite Levy Receipts   | \$<br>177,544.90 |                    | \$ ( | 1,113,920.92) |
| Other Receipts  | \$<br>23,799.18  |                    | \$ ( | 1,090,121.74) |
| Debenture Interest Expenditure                                      |                  | \$<br>-            | \$ ( | 1,090,121.74) |
| Interest on Project Expenditure                                     |                  | \$<br>13,863.52    | \$ ( | 1,103,985.27) |
| Interest on Offsite Levy Receipts                                   | \$<br>1,775.45   |                    | \$ ( | 1,102,209.82) |
| Interest on Other Receipts  | \$<br>-          |                    | \$ ( | 1,102,209.82) |
| Interest on Debenture Accrual                                       |                  | \$<br>-            | \$ ( | 1,102,209.82) |
| 2014  |                  |                    | \$ ( | 1,102,209.82) |
| Interest on Opening Balance   |                  | \$<br>33,066.29    |      | 1,135,276.11) |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>(406,979.00) |      | (728,297.11)  |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$<br>1,261,342.25 | \$ ( | 1,989,639.36) |
| Offsite Levy Receipts   | \$<br>101,820.41 |                    | \$ ( | 1,887,818.95) |
| Other Receipts  | \$<br>-          |                    | \$ ( | 1,887,818.95) |
| Debenture Interest Expenditure                                      |                  | \$<br>-            | \$ ( | 1,887,818.95) |
| Interest on Project Expenditure                                     |                  | \$<br>6,407.72     | \$ ( | 1,894,226.68) |
| Interest on Offsite Levy Receipts                                   | \$<br>1,018.20   |                    | \$ ( | 1,893,208.47) |
| Interest on Other Receipts  | \$<br>-          |                    | \$ ( | 1,893,208.47) |
| Interest on Debenture Accrual                                       |                  | \$<br>             | \$ ( | 1,893,208.47) |
| 2015  |                  |                    | \$ ( | 1,893,208.47) |
| Interest on Opening Balance   |                  | \$<br>56,796.25    | \$ ( | 1,950,004.73) |
| Withdrawal Applied to Project Expenditures                          |                  | \$<br>-            | \$ ( | 1,950,004.73) |
| Other Receipts  |                  | \$<br>294,536.39   | \$ ( | 2,244,541.12) |
| Offsite Levy Receipts   | \$<br>104,618.76 |                    | \$ ( | 2,139,922.36) |
| Other Receipts  | \$<br>-          |                    |      | 2,139,922.36) |
| Debenture Interest Expenditure                                      |                  | \$<br>-            | \$ ( | 2,139,922.36) |
| Interest on Project Expenditure                                     |                  | \$<br>2,209.02     | \$ ( | 2,142,131.38) |
| Interest on Offsite Levy Receipts                                   | \$<br>523.09     |                    | \$ ( | 2,141,608.29) |
| Interest on Other Receipts  | \$<br>-          |                    | \$ ( | 2,141,608.29) |
| Interest on Debenture Accrual                                       |                  | \$<br>-            | \$ ( | 2,141,608.29) |

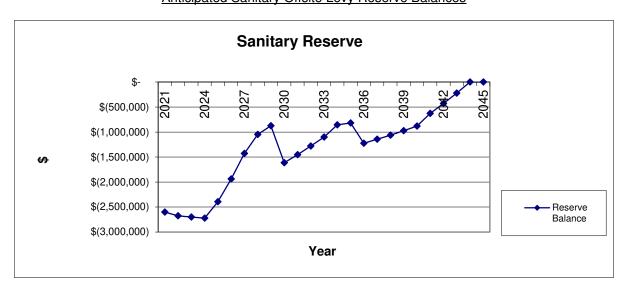
| 0040  |    |           |    | 1                           |
|---|----|-----------|----|-----------------------------|
| 2016  |    |           |    | \$ (2,141,608.29)           |
| Interest on Opening Balance   |    |           | \$ | 64,248.25 \$ (2,205,856.53) |
| Withdrawal Applied to Project Expenditures  |    |           | \$ | - \$ (2,205,856.53)         |
| Other Receipts  |    |           | \$ | 28,974.19 \$ (2,234,830.72) |
| Offsite Levy Receipts   | \$ | 16,029.12 |    | \$ (2,218,801.60)           |
| Other Receipts  | \$ | -         |    | \$ (2,218,801.60)           |
| Debenture Interest Expenditure  |    |           | \$ | - \$ (2,218,801.60)         |
| Interest on Project Expenditure   |    |           | \$ | 217.31 \$ (2,219,018.91)    |
| Interest on Offsite Levy Receipts   | \$ | 80.15     |    | \$ (2,218,938.76)           |
| Interest on Other Receipts  | \$ | -         |    | \$ (2,218,938.76)           |
| Interest on Debenture Accrual   | Ψ  |           | \$ | - \$ (2,218,938.76)         |
| microst on Bosoniaro Adordar  |    |           | Ψ  | Ψ (2,210,000.10)            |
| 2017  |    |           |    | \$ (2,218,938.76)           |
| Interest on Opening Balance   |    |           | \$ | 66,568.16 \$ (2,285,506.93) |
| Withdrawal Applied to Project Expenditures  |    |           | \$ | - \$ (2,285,506.93)         |
| Other Receipts  |    |           | \$ | 27,111.93 \$ (2,312,618.86) |
| Offsite Levy Receipts   | \$ | 20,340.49 | Ψ  | \$ (2,292,278.37)           |
| Interest on Other Receipts  | \$ | -         |    | \$ (2,292,278.37)           |
| Debenture Interest Expenditure  | Ψ  |           | \$ | - \$ (2,292,278.37)         |
| ·   |    |           | \$ | 203.34 \$ (2,292,481.71)    |
| Interest on Project Expenditure   | Φ. | 101 70    | Φ  |                             |
| Interest on Offsite Levy Receipts   | \$ | 101.70    |    | \$ (2,292,380.00)           |
| Interest on Other Receipts  | \$ | - `       | •  | \$ (2,292,380.00)           |
| Interest on Debenture Accrual   |    |           | \$ | - \$ (2,292,380.00)         |
| 2018  |    |           |    | \$ (2,292,380.00)           |
|   |    |           | Φ  |                             |
| Interest on Opening Balance   |    |           | \$ | 68,771.40 \$ (2,361,151.40) |
| Withdrawal Applied to Project Expenditures  |    |           | \$ | - \$ (2,361,151.40)         |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)                     | -  |           | \$ | 25,187.81 \$ (2,386,339.21) |
| Offsite Levy Receipts   | \$ | 17,135.32 |    | \$ (2,369,203.89)           |
| Other Receipts  | \$ | -         |    | \$ (2,369,203.89)           |
| Debenture Interest Expenditure  |    |           | \$ | - \$ (2,369,203.89)         |
| Interest on Project Expenditure   |    |           | \$ | 188.91 \$ (2,369,392.80)    |
| Interest on Offsite Levy Receipts   | \$ | 85.68     |    | \$ (2,369,307.13)           |
| Interest on Other Receipts  | \$ | -         |    | \$ (2,369,307.13)           |
| Interest on Debenture Accrual   |    |           | \$ | - \$ (2,369,307.13)         |
|   |    |           |    |                             |
| 2019  |    |           |    | \$ (2,369,307.13)           |
| Interest on Opening Balance   |    |           | \$ | 77,002.48 \$ (2,446,309.61) |
| Withdrawal Applied to Project Expenditures  |    |           | \$ | - \$ (2,446,309.61)         |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)                     |    |           | \$ | 23,199.76 \$ (2,469,509.37) |
| Offsite Levy Receipts   | \$ | 21,357.82 |    | \$ (2,448,151.55)           |
| Other Receipts  | \$ | -         |    | \$ (2,448,151.55)           |
| Debenture Interest Expenditure  | T. |           | \$ | - \$ (2,448,151.55)         |
| Interest on Project Expenditure   |    |           | \$ | 188.50 \$ (2,448,340.05)    |
| Interest on Offsite Levy Receipts   | \$ | 106.79    | Ψ_ | \$ (2,448,233.26)           |
| Interest on Other Receipts  | \$ | - 100.70  |    | \$ (2,448,233.26)           |
| Interest on Debenture Accrual   | Ψ  |           | \$ | - \$ (2,448,233.26)         |
| interest on Dependire Accidal   |    |           | Φ  | - \$\psi(2,440,233.20)      |
| 2020  |    |           |    | \$ (2,448,233.26)           |
| Interest on Opening Balance   |    |           | \$ | 79,567.58 \$ (2,527,800.84) |
| Withdrawal Applied to Project Expenditures  |    |           | \$ | - \$ (2,527,800.84)         |
| Other Receipts  |    |           | \$ | 21,145.67 \$ (2,548,946.52) |
|   | Φ. | 10 217 OF | ψ  | ,                           |
| Offsite Levy Receipts Offsite Levy Receipts Offsite Levy Receipts Offsite Levy Receipts | \$ | 18,317.85 |    | \$ (2,530,628.67)           |
| Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if                    | _  |           |    | A (0 =00 000 ==)            |
| any)  | \$ | -         |    | \$ (2,530,628.67)           |
| Debenture Interest Expenditure  |    |           | \$ | - \$ (2,530,628.67)         |
| Interest on Project Expenditure   |    |           | \$ | 171.81 \$ (2,530,800.48)    |
| Interest on Offsite Levy Receipts   | \$ | 91.59     |    | \$ (2,530,708.89)           |
| Interest on Other Receipts  | \$ |           |    | \$ (2,530,708.89)           |
| Interest on Debenture Accrual   |    |           | \$ | - \$ (2,530,708.89)         |
|   |    |           |    |                             |

## D9. Development and Sanitary Infrastructure Staging Impacts

Sanitary offsite infrastructure will be constructed in staged fashion over the 25-year development period. We have reviewed the availability of offsite levy funds to meet these construction requirements and found that offsite levy reserve funds will not be sufficient to pay for construction of sanitary infrastructure from time to time—front ending of infrastructure will be required. A front-ender is the party that constructs and pays up front for infrastructure that benefits other parties.

To compensate parties for capital they provide in front-ending offsite infrastructure construction, a **2.09**%<sup>10</sup> interest allowance has been charged to the reserve when it is forecast to be in a negative balance. Further, a **1.00**%<sup>11</sup> interest credit has been provided to the reserve when it is forecast to be in a positive balance. The graph and table below outline the forecast water levy reserve balances over the 25-year development period.

If necessary, an interest staging adjustment has been applied to rates (slightly positive or slightly negative) to ensure that the forecast reserve balance at the end of the 25-year review period always returns to break-even (i.e., developers are not charged too much thereby providing a windfall to the County, nor are they charged too little thereby placing an unequitable burden on taxpayers).



Anticipated Sanitary Offsite Levy Reserve Balances

<sup>&</sup>lt;sup>10</sup> The 20-year debenture rate at the Alberta Capital Finance Authority at the time of writing was ~2.09%. Historic charge rates used in the model are 3.00% (2013-2018), 3.25% (2019-2020).

<sup>&</sup>lt;sup>11</sup> Historic earning rates used in the model are 2.00% (2013-2014), 1.00% (2015-2020).

# Anticipated Sanitary Offsite Levy Reserve Balances

|      |               |    | (         | Оре | ning Balance | \$<br>(2,530,709) |
|------|---------------|----|-----------|-----|--------------|-------------------|
| Year | Receipts      | Ex | penditure |     | Interest     | Balance           |
| 2021 | \$<br>-       | \$ | 17,861    | \$  | (53,265)     | \$<br>(2,601,835) |
| 2022 | \$<br>-       | \$ | 18,218    | \$  | (54,759)     | \$<br>(2,674,812) |
| 2023 | \$<br>49,372  | \$ | 18,583    | \$  | (55,260)     | \$<br>(2,699,283) |
| 2024 | \$<br>50,854  | \$ | 19,140    | \$  | (55,752)     | \$<br>(2,723,322) |
| 2025 | \$<br>397,001 | \$ | 19,714    | \$  | (49,032)     | \$<br>(2,395,067) |
| 2026 | \$<br>516,438 | \$ | 20,306    | \$  | (39,688)     | \$<br>(1,938,622) |
| 2027 | \$<br>558,798 | \$ | 20,915    | \$  | (29,275)     | \$<br>(1,430,014) |
| 2028 | \$<br>412,885 | \$ | 10,771    | \$  | (21,483)     | \$<br>(1,049,384) |
| 2029 | \$<br>204,984 | \$ | 11,094    | \$  | (17,880)     | \$<br>(873,374)   |
| 2030 | \$<br>-       | \$ | 707,580   | \$  | (33,042)     | \$<br>(1,613,996) |
| 2031 | \$<br>191,758 | \$ | -         | \$  | (29,725)     | \$<br>(1,451,963) |
| 2032 | \$<br>197,510 | \$ | -         | \$  | (26,218)     | \$<br>(1,280,671) |
| 2033 | \$<br>203,436 | \$ | -         | \$  | (22,514)     | \$<br>(1,099,750) |
| 2034 | \$<br>261,715 | \$ | -         | \$  | (17,515)     | \$<br>(855,550)   |
| 2035 | \$<br>53,741  | \$ | -         | \$  | (16,758)     | \$<br>(818,566)   |
| 2036 | \$<br>55,354  | \$ | 435,645   | \$  | (25,056)     | \$<br>(1,223,914) |
| 2037 | \$<br>101,956 | \$ | -         | \$  | (23,449)     | \$<br>(1,145,407) |
| 2038 | \$<br>105,015 | \$ | -         | \$  | (21,744)     | \$<br>(1,062,137) |
| 2039 | \$<br>108,165 | \$ | -         | \$  | (19,938)     | \$<br>(973,909)   |
| 2040 | \$<br>111,429 | \$ | -         | \$  | (18,026)     | \$<br>(880,507)   |
| 2041 | \$<br>265,546 | \$ | -         | \$  | (12,853)     | \$<br>(627,814)   |
| 2042 | \$<br>207,417 | \$ | -         | \$  | (8,786)      | \$<br>(429,183)   |
| 2043 | \$<br>213,639 | \$ | -         | \$  | (4,505)      | \$<br>(220,049)   |
| 2044 | \$<br>220,049 | \$ | -         | \$  | -            | \$<br>(0)         |
| 2045 | \$<br>-       | \$ | -         | \$  | -            | \$<br>(0)         |

### **APPENDIX E: STORMWATER**

#### E1. Stormwater Offsite Infrastructure

In order to support future growth, stormwater offsite infrastructure is required. The estimated cost of this infrastructure is based upon: (a) actual construction costs to the cut-off date, (b) future debenture interest associated with financing, and (c) future cost estimates. Total cost is approximately **\$3.78 million** as outlined in the table below. Actual costs, debenture interest (if any), and cost estimates were provided by County staff. It is important to note that these costs represent "gross" costs, of which only a portion will go to support development during the 25-year review period. The remainder of this section outlines how the "net" costs for development are determined.

#### Summary of Stormwater Offsite Infrastructure

| Item | Project Description                                      | Cost of Completed<br>Work | Fut | ture Debenture<br>Interest | Estimated Cost of<br>Work Yet to be<br>Completed |    | Total Project<br>stimated Cost |
|------|--|---------------------------|-----|----------------------------|--|----|--------------------------------|
| 1    | Storm Ditch Twp 552 (1)                                  | \$ 292,938                | \$  | -                          | \$   | \$ | 292,938                        |
| 2    | Storm Ditch RR 225 (2)                                   | \$ 86,119                 | \$  | -                          | \$<br>87,575                                     | \$ | 173,694                        |
| 3    | Storm Ditch Twp 552A (3)                                 | \$ -                      | \$  | -                          | \$<br>275,704                                    | \$ | 275,704                        |
| 4    | Storm Ditch Twp 552A (4)                                 | \$ -                      | \$  | -                          | \$<br>413,556                                    | \$ | 413,556                        |
| 5    | Storm Ditch Twp 553A (5)                                 | \$ -                      | \$  | -                          | \$<br>413,556                                    | \$ | 413,556                        |
| 6    | Storm Ditch Twp 553 (6)                                  | \$ -                      | \$  | -                          | \$<br>413,556                                    | \$ | 413,556                        |
| 7    | Storm Ditch Twp 553 (7)                                  | \$ -                      | \$  | -                          | \$<br>275,704                                    | \$ | 275,704                        |
| 8    | Storm Ditch Twp 553 (8)                                  | \$ -                      | \$  | -                          | \$<br>275,704                                    | \$ | 275,704                        |
| 9    | Storm Ditch Hwy 825 (9)                                  | \$ -                      | \$  | -                          | \$<br>171,664                                    | \$ | 171,664                        |
| 10   | Storm Ditch Twp 554 (10)                                 | \$ -                      | \$  | -                          | \$<br>171,664                                    | \$ | 171,664                        |
| 11   | Storm Ditch Twp 554 (11)                                 | \$ -                      | \$  | -                          | \$<br>171,664                                    | \$ | 171,664                        |
| 12   | Storm Ditch Twp 554 (12)                                 | \$ -                      | \$  | -                          | \$<br>171,664                                    | \$ | 171,664                        |
| 13   | Storm Ditch Twp 554 (13)                                 | \$ -                      | \$  | -                          | \$<br>171,664                                    | \$ | 171,664                        |
| 14   | Storm Ditch RR 230 (14)                                  | \$ -                      | \$  | -                          | \$<br>82,499                                     | \$ | 82,499                         |
| 15   | Storm Ditch Hwy 825 (15)                                 | \$ -                      | \$  | -                          | \$<br>309,371                                    | \$ | 309,371                        |
| 100  | Contributions collected under old development agreements | \$ -                      | \$  | -                          | \$<br>-  | \$ | -                              |
|      |  | \$ 379,057                | \$  | -                          | \$<br>3,405,545                                  | \$ | 3,784,602                      |

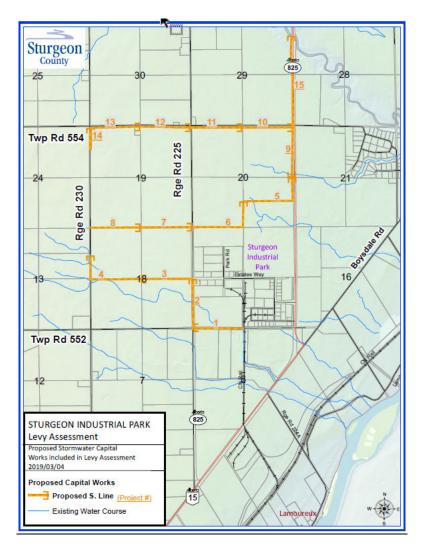
<sup>\*</sup>Past expenditures include past financing expenditures (interest) if any.

<sup>\*\*</sup>Costs estimates provided by County staff.

<sup>\*\*\*</sup>Estimates include engineering and contingencies.

<sup>\*\*\*\*</sup>Transfers or contributions stemming from Development Agreements were set-up as an individual project (#100) and credited 100% to future development and to all offsite levy areas (see *Section E5*).

\*\*\*\*\*Offsite infrastructure definitions are contained in Appendix F.



#### E2. Stormwater Offsite Infrastructure Grants & Contributions to Date

The MGA enables the County to allocate the costs of offsite infrastructure to development, other than those costs that have been provided by way of special ear-marked grant or contribution (i.e., contributed infrastructure). Sturgeon County has/will receive approximately **\$0.29 million** in special ear-marked grants and contributions for stormwater offsite levy infrastructure as shown in the table below (note, if the County receives other ear-marked grants or contributions in the future, it will be reflected in one of the annual updates and rates adjusted accordingly). The result is that the total reduced project estimated cost is **\$3.50 million**.

| Item | Project Description                                      | Total Project<br>Estimated Cost | Special Provincial<br>Grants (Historic &<br>Future) | Developer<br>Agreement<br>Contributions<br>(Historic & Future) | Other<br>Contributions<br>(Historic & Future) | Reduced Project<br>Estimated Cost |
|------|--|---------------------------------|---|--|---|-----------------------------------|
| 1    | Storm Ditch Twp 552 (1)                                  | \$ 292,938                      |   | \$ -   | \$ -  | \$ 292,938                        |
| 2    | Storm Ditch RR 225 (2)                                   | \$ 173,694                      | \$ -  | \$ -   | \$ -  | \$ 173,694                        |
| 3    | Storm Ditch Twp 552A (3)                                 | \$ 275,704                      | \$ -  | \$ -   | \$ -  | \$ 275,704                        |
| 4    | Storm Ditch Twp 552A (4)                                 | \$ 413,556                      | \$ -  | \$ -   | \$ -  | \$ 413,556                        |
| 5    | Storm Ditch Twp 553A (5)                                 | \$ 413,556                      | \$ -  | \$ -   | \$ -  | \$ 413,556                        |
| 6    | Storm Ditch Twp 553 (6)                                  | \$ 413,556                      | \$ -  | \$ -   | \$ -  | \$ 413,556                        |
| 7    | Storm Ditch Twp 553 (7)                                  | \$ 275,704                      | \$ -  | \$ -   | \$ -  | \$ 275,704                        |
| 8    | Storm Ditch Twp 553 (8)                                  | \$ 275,704                      | \$ -  | \$ -   | \$ -  | \$ 275,704                        |
| 9    | Storm Ditch Hwy 825 (9)                                  | \$ 171,664                      | \$ -  | \$ -   | \$ -  | \$ 171,664                        |
| 10   | Storm Ditch Twp 554 (10)                                 | \$ 171,664                      | \$ -  | \$ -   | \$ -  | \$ 171,664                        |
| 11   | Storm Ditch Twp 554 (11)                                 | \$ 171,664                      | \$ -  | \$ -   | \$ -  | \$ 171,664                        |
| 12   | Storm Ditch Twp 554 (12)                                 | \$ 171,664                      | \$ -  | \$ -   | \$ -  | \$ 171,664                        |
| 13   | Storm Ditch Twp 554 (13)                                 | \$ 171,664                      | \$ -  | \$ -   | \$ -  | \$ 171,664                        |
| 14   | Storm Ditch RR 230 (14)                                  | \$ 82,499                       | \$ -  | \$ -   | \$ -  | \$ 82,499                         |
| 15   | Storm Ditch Hwy 825 (15)                                 | \$ 309,371                      | \$ -  | \$ -   | \$ -  | \$ 309,371                        |
| 100  | Contributions collected under old development agreements | \$ -                            | \$ -  | \$ -   | \$ 286,965                                    | \$ (286,965)                      |
|      |  | \$ 3,784,602                    | \$ -  | \$ -   | \$ 286,965                                    | \$ 3,497,637                      |

#### E3. Year of Construction

The timing of construction is used to determine the impact of inflation on cost, the impact of forecast reserve balances, and the estimate of financial oversizing (described in the Section that follows). The County anticipates construction of offsite infrastructure as outlined in the table below. Note, if this schedule is adjusted in the future, it will be reflected in one of the County's annual rate/bylaw updates.

Forecast Year of Construction

| Item | Project Description      | Construction<br>Start Year |
|------|--------------------------|----------------------------|
| 1    | Storm Ditch Twp 552 (1)  | 2012                       |
| 2    | Storm Ditch RR 225 (2)   | 2013                       |
| 3    | Storm Ditch Twp 552A (3) | 2029                       |
| 4    | Storm Ditch Twp 552A (4) | 2034                       |
| 5    | Storm Ditch Twp 553A (5) | 2025                       |
| 6    | Storm Ditch Twp 553 (6)  | 2025                       |
| 7    | Storm Ditch Twp 553 (7)  | 2050                       |
| 8    | Storm Ditch Twp 553 (8)  | 2050                       |
| 9    | Storm Ditch Hwy 825 (9)  | 2050                       |
| 10   | Storm Ditch Twp 554 (10) | 2050                       |
| 11   | Storm Ditch Twp 554 (11) | 2050                       |
| 12   | Storm Ditch Twp 554 (12) | 2050                       |
| 13   | Storm Ditch Twp 554 (13) | 2050                       |
| 14   | Storm Ditch RR 230 (14)  | 2050                       |
| 15   | Storm Ditch Hwy 825 (15) | 2050                       |

<sup>\*</sup>The share of projects constructed beyond the 25-year review period are not included in rates today (see financial oversizing in next section).

# E4. Stormwater Offsite Infrastructure Benefiting Parties

The stormwater offsite infrastructure previously outlined will benefit various parties to varying degrees. Three potential benefiting parties were identified including:

<sup>\*\*</sup>Project costs are inflated by 2% per annum to 2022 and 3% per annum thereafter to the year of construction.

1. Sturgeon County – a portion of the stormwater infrastructure which is required to service existing residents. This residual benefit is determined at the point in time when the project is added to the bylaw (i.e., it does not fluctuate from year-to-year).

- 2. Other Stakeholders other municipalities that benefit from the infrastructure.
- 3. Future Development:
  - Financial Oversizing that portion of cost (i.e., levyable stormwater infrastructure costs) which benefits future development beyond the 25-year review period.
  - In Rates that portion of cost (i.e., levyable stormwater infrastructure costs) which benefits future development within the 25-year review period.

The table below outlines the allocation of stormwater offsite levy infrastructure costs to benefiting parties.

| Allocation | of Sto | rmwater                | Infractr   | ucture to             | Renefiting | n Parties             |
|------------|--------|------------------------|------------|-----------------------|------------|-----------------------|
| Allocation | UI SIU | ııııwaı <del>c</del> ı | IIIII asıı | uciui <del>c</del> ic | , Denembri | ıı aıu <del>c</del> ə |

| Item | Project Description                                      | Reduced Project<br>Estimated Cost | Muni Share % | Other Stakeholder<br>Share | Developer Share<br>Beyond 25 Yrs<br>(Financial<br>Oversizing %) | OSL / Developer<br>Share % |
|------|--|-----------------------------------|--------------|----------------------------|---|----------------------------|
| 1    | Storm Ditch Twp 552 (1)                                  | \$ 292,938                        |              |                            | 0.0%  | 100.0%                     |
| 2    | Storm Ditch RR 225 (2)                                   | \$ 173,694                        |              |                            | 0.0%  | 100.0%                     |
| 3    | Storm Ditch Twp 552A (3)                                 | \$ 275,704                        |              |                            | 32.0%   | 68.0%                      |
| 4    | Storm Ditch Twp 552A (4)                                 | \$ 413,556                        |              |                            | 52.0%   | 48.0%                      |
| 5    | Storm Ditch Twp 553A (5)                                 | \$ 413,556                        |              |                            | 16.0%   | 84.0%                      |
| 6    | Storm Ditch Twp 553 (6)                                  | \$ 413,556                        |              |                            | 16.0%   | 84.0%                      |
| 7    | Storm Ditch Twp 553 (7)                                  | \$ 275,704                        |              |                            | 100.0%  | 0.0%                       |
| 8    | Storm Ditch Twp 553 (8)                                  | \$ 275,704                        |              |                            | 100.0%  | 0.0%                       |
| 9    | Storm Ditch Hwy 825 (9)                                  | \$ 171,664                        |              |                            | 100.0%  | 0.0%                       |
| 10   | Storm Ditch Twp 554 (10)                                 | \$ 171,664                        |              |                            | 100.0%  | 0.0%                       |
| 11   | Storm Ditch Twp 554 (11)                                 | \$ 171,664                        |              |                            | 100.0%  | 0.0%                       |
| 12   | Storm Ditch Twp 554 (12)                                 | \$ 171,664                        |              |                            | 100.0%  | 0.0%                       |
| 13   | Storm Ditch Twp 554 (13)                                 | \$ 171,664                        |              |                            | 100.0%  | 0.0%                       |
| 14   | Storm Ditch RR 230 (14)                                  | \$ 82,499                         |              |                            | 100.0%  | 0.0%                       |
| 15   | Storm Ditch Hwy 825 (15)                                 | \$ 309,371                        |              |                            | 100.0%  | 0.0%                       |
| 100  | Contributions collected under old development agreements | \$ (286,965)                      |              |                            | 0.0%  | 100.0%                     |
|      |  | \$ 3,497,637                      |              |                            |   |                            |

<sup>\*</sup>Allocations were determined by County staff.

# E5. Existing Receipts & Adjusted Levy Cost

Using the offsite levy share percentages shown in the previous section and applying those percentages to project costs results in an offsite levy cost of **\$1.26 million**. However, prior to allocating these costs to benefiting areas, existing offsite levy receipts collected from developers need to be considered in determining the residual/net costs to developers. County staff have advised that **\$0.30 million** in stormwater levies have been applied/collected as shown in the table below. This results in an adjusted offsite levy cost of **\$0.96 million**.

<sup>\*\*</sup>Financial oversizing is determined by separating out the pro rata portion of developer cost beyond the 25-year review period, in comparison with the anticipated year of construction. As the years move forward and rates are updated, these additional developer costs will be included in rate calculations. For example, a project which is slated to be constructed in year 20 of the 25-year review period will have 20% (5/25) of its costs in rates today, and 80% (20/25) of its costs will sit beyond the 25-year review period.

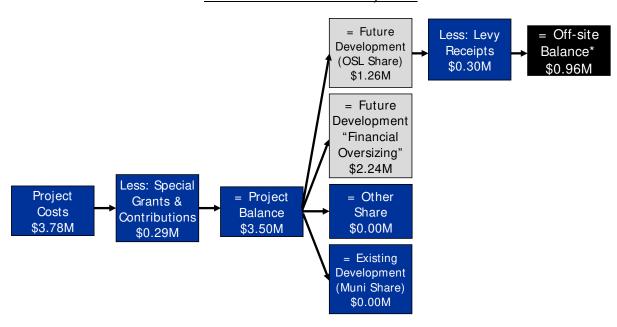
| Offsite Levy Fur | ds Applied to Date |
|------------------|--------------------|
|------------------|--------------------|

| Item | Project Description                                      | os | L / Developer<br>Cost | F  | Offsite Levy<br>unds Collected | De | Adjusted<br>veloper (Levy)<br>Cost |
|------|--|----|-----------------------|----|--------------------------------|----|------------------------------------|
| 1    | Storm Ditch Twp 552 (1)                                  | \$ | 292,938               | \$ | (136,801)                      | \$ | 429,740                            |
| 2    | Storm Ditch RR 225 (2)                                   | \$ | 173,694               | \$ | 520,611                        | \$ | (346,917)                          |
| 3    | Storm Ditch Twp 552A (3)                                 | \$ | 187,479               | \$ | 162,612                        | \$ | 24,867                             |
| 4    | Storm Ditch Twp 552A (4)                                 | \$ | 198,507               | \$ | (243,652)                      | \$ | 442,159                            |
| 5    | Storm Ditch Twp 553A (5)                                 | \$ | 347,387               | \$ | -                              | \$ | 347,387                            |
| 6    | Storm Ditch Twp 553 (6)                                  | \$ | 347,387               | \$ | -                              | \$ | 347,387                            |
| 7    | Storm Ditch Twp 553 (7)                                  | \$ | -                     | \$ | -                              | \$ | -                                  |
| 8    | Storm Ditch Twp 553 (8)                                  | \$ | -                     | \$ | -                              | \$ | -                                  |
| 9    | Storm Ditch Hwy 825 (9)                                  | \$ | -                     | \$ | -                              | \$ | -                                  |
| 10   | Storm Ditch Twp 554 (10)                                 | \$ | -                     | \$ | -                              | \$ | -                                  |
| 11   | Storm Ditch Twp 554 (11)                                 | \$ | -                     | \$ | -                              | \$ | -                                  |
| 12   | Storm Ditch Twp 554 (12)                                 | \$ | -                     | \$ | -                              | \$ | -                                  |
| 13   | Storm Ditch Twp 554 (13)                                 | \$ | -                     | \$ | -                              | \$ | -                                  |
| 14   | Storm Ditch RR 230 (14)                                  | \$ | -                     | \$ | -                              | \$ | -                                  |
| 15   | Storm Ditch Hwy 825 (15)                                 | \$ | -                     | \$ | -                              | \$ | -                                  |
| 100  | Contributions collected under old development agreements | \$ | (286,965)             | \$ | -                              | \$ | (286,965)                          |
|      | ·  | \$ | 1,260,426             | \$ | 302,769                        | \$ | 957,657                            |

## E6. Summary of Stormwater Offsite Levy Cost Flow-through

As shown in the figure below, the total cost for stormwater infrastructure that forms the basis of the rate is **\$0.96**. The cost allocations to each benefitting party are based on the benefitting percentages shown in previous section. The offsite levy balance (due from developers) is allocated to various benefitting areas (as described in the next section).

Total Stormwater Offsite Levy Costs



# **E7.** Stormwater Infrastructure Benefiting Areas

Net developer costs for each project have been allocated to multiple benefiting offsite levy area (see tables below). Allocations are denoted with a "1" below applicable area numbers. Benefiting areas were determined by County staff. The lands anticipated to develop over the 25-years in each offsite levy benefitting area are used to determine rates.

## Stormwater Allocations to Benefitting Areas

| Item | Project Description                                      | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | Storm Ditch Twp 552 (1)                                  |     |     |     |     |     |     |     |     |     | 1    | 1    | 1    |      |      | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |
| 2    | Storm Ditch RR 225 (2)                                   |     |     |     |     |     |     |     |     |     | 1    | 1    | 1    |      |      | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |
| 3    | Storm Ditch Twp 552A (3)                                 |     |     |     |     |     |     |     |     |     | 1    | 1    | 1    |      |      | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |
| 4    | Storm Ditch Twp 552A (4)                                 |     |     |     |     |     |     |     |     |     | 1    | 1    | 1    |      |      | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |      |      |      |
| 5    | Storm Ditch Twp 553A (5)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6    | Storm Ditch Twp 553 (6)                                  | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 7    | Storm Ditch Twp 553 (7)                                  | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8    | Storm Ditch Twp 553 (8)                                  | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 9    | Storm Ditch Hwy 825 (9)                                  | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 10   | Storm Ditch Twp 554 (10)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 11   | Storm Ditch Twp 554 (11)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12   | Storm Ditch Twp 554 (12)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13   | Storm Ditch Twp 554 (13)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      | Storm Ditch RR 230 (14)                                  | 1   | 1   | 1   | 1   | 1   |     | 1   | 1   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15   | Storm Ditch Hwy 825 (15)                                 | 1   | 1   | 1   | 1   | 1   |     | 1   | -   | 1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | Contributions collected under old development agreements | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

### E8. Reserve Balance

At December 31<sup>st</sup>, 2020 the stormwater reserve balance was in a surplus of **\$232,505.10**. This amount takes into consideration expenditures and front-ending repayments up to end-2020. This balance assumes that cash in the reserve below this amount is topped-up.

# Stormwater Offsite Levy Reserve Balance

| Description   | Dr               |    | Cr         | Balance          |
|---|------------------|----|------------|------------------|
| Levies Collected to Dec 31, 2012                                    | \$<br>370,394.62 | 4  |            | \$<br>370,394.62 |
| Levies Applied to Project Expenditures to Dec 31, 2012              |                  | \$ | 59,077.28  | \$<br>311,317.34 |
| Account Balance Per County GL Dec 31, 2012                          |                  |    |            | \$<br>311,317.34 |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$ | -          | \$<br>311,317.34 |
| Closing Balance Dec 31, 2012  |                  |    |            | \$<br>311,317.34 |
| 2013  |                  |    |            | \$<br>311,317.34 |
| Interest on Opening Balance   | \$<br>6,226.35   |    |            | \$<br>317,543.69 |
| Withdrawal Applied to Project Expenditures                          |                  | \$ | 259,952.07 | \$<br>57,591.62  |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$ | -          | \$<br>57,591.62  |
| Offsite Levy Receipts   | \$<br>96,749.34  |    |            | \$<br>154,340.96 |
| Other Receipts  | \$<br>14,359.91  | 4  |            | \$<br>168,700.87 |
| Debenture Interest Expenditure                                      |                  | \$ | -          | \$<br>168,700.87 |
| Interest on Project Expenditure                                     |                  | \$ | 1,949.64   | \$<br>166,751.23 |
| Interest on Offsite Levy Receipts                                   | \$<br>967.49     |    |            | \$<br>167,718.72 |
| Interest on Other Receipts  | \$<br>-          |    |            | \$<br>167,718.72 |
| Interest on Debenture Accrual                                       |                  | \$ |            | \$<br>167,718.72 |
| 2014  |                  |    |            | \$<br>167,718.72 |
| Interest on Opening Balance   | \$<br>3,354.37   |    |            | \$<br>171,073.09 |
| Withdrawal Applied to Project Expenditures                          |                  | \$ | 60,027.89  | \$<br>111,045.20 |
| OSL Share of Expenditures in Addition to Allocations (Front-ending) |                  | \$ | -          | \$<br>111,045.20 |
| Offsite Levy Receipts   | \$<br>52,389.01  |    |            | \$<br>163,434.21 |
| Other Receipts  | \$<br>-          |    |            | \$<br>163,434.21 |
| Debenture Interest Expenditure                                      |                  | \$ | -          | \$<br>163,434.21 |
| Interest on Project Expenditure                                     |                  | \$ | 450.21     | \$<br>162,984.00 |
| Interest on Offsite Levy Receipts                                   | \$<br>523.89     |    |            | \$<br>163,507.89 |
| Interest on Other Receipts  | \$<br>-          |    |            | \$<br>163,507.89 |
| Interest on Debenture Accrual                                       |                  | \$ | -          | \$<br>163,507.89 |
| 2015  |                  |    |            | \$<br>163,507.89 |
| Interest on Opening Balance   | \$<br>1,635.08   |    |            | \$<br>165,142.97 |
| Withdrawal Applied to Project Expenditures                          |                  | \$ | -          | \$<br>165,142.97 |
| Other Receipts  |                  | \$ | -          | \$<br>165,142.97 |
| Offsite Levy Receipts   | \$<br>53,770.51  |    |            | \$<br>218,913.48 |
| Other Receipts  | \$<br>-          |    |            | \$<br>218,913.48 |
| Debenture Interest Expenditure                                      |                  | \$ | -          | \$<br>218,913.48 |
| Interest on Project Expenditure                                     |                  | \$ | -          | \$<br>218,913.48 |
| Interest on Offsite Levy Receipts                                   | \$<br>268.85     |    |            | \$<br>219,182.34 |
| Interest on Other Receipts  | \$<br>-          |    |            | \$<br>219,182.34 |
| Interest on Debenture Accrual                                       |                  | \$ | -          | \$<br>219,182.34 |

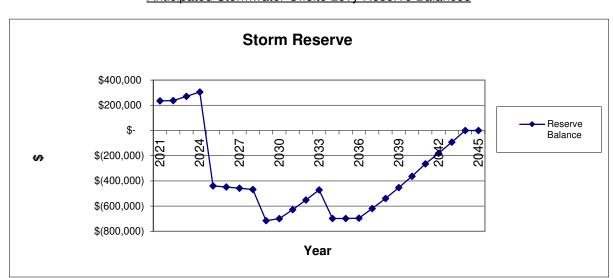
| 2016   |     |          |      | \$ | 219,182.34 |
|--|-----|----------|------|----|------------|
| Interest on Opening Balance  | \$  | 2,191.82 |      | \$ | 221,374.16 |
| Withdrawal Applied to Project Expenditures                           |     |          | \$ - | \$ | 221,374.16 |
| Other Receipts   |     |          | \$ - | \$ | 221,374.16 |
| Offsite Levy Receipts  | \$  | -        |      | \$ | 221,374.16 |
| Other Receipts   | \$  | -        |      | \$ | 221,374.16 |
| Debenture Interest Expenditure                                       |     |          | \$ - | \$ | 221,374.16 |
| Interest on Project Expenditure                                      |     |          | \$ - | \$ | 221,374.16 |
| Interest on Offsite Levy Receipts                                    | \$  | -        |      | \$ | 221,374.16 |
| Interest on Other Receipts   | \$  | -        |      | \$ | 221,374.16 |
| Interest on Debenture Accrual  |     |          | \$ - | \$ | 221,374.16 |
|  |     |          |      |    |            |
| 2017   |     |          |      | \$ | 221,374.16 |
| Interest on Opening Balance  | \$  | 2,213.74 |      | \$ | 223,587.90 |
| Withdrawal Applied to Project Expenditures                           |     |          | \$ - | \$ | 223,587.90 |
| Other Receipts   |     |          | \$ - | \$ | 223,587.90 |
| Offsite Levy Receipts  | \$  | 1,965.00 |      | \$ | 225,552.90 |
| Interest on Other Receipts   | \$  | -        |      | \$ | 225,552.90 |
| Debenture Interest Expenditure                                       |     |          | \$ - | \$ | 225,552.90 |
| Interest on Project Expenditure                                      |     |          | \$ - | \$ | 225,552.90 |
| Interest on Offsite Levy Receipts                                    | \$  | 9.83     |      | \$ | 225,562.73 |
| Interest on Other Receipts   | \$  | -        |      | \$ | 225,562.73 |
| Interest on Debenture Accrual  | , i |          | \$ - | \$ | 225,562.73 |
|  |     |          | •    |    |            |
| 2018   |     |          |      | \$ | 225,562.73 |
| Interest on Opening Balance  | \$  | 2,255.63 |      | \$ | 227,818.35 |
| Withdrawal Applied to Project Expenditures                           |     |          | \$ - | \$ | 227,818.35 |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)  |     |          | \$ - | \$ | 227,818.35 |
| Offsite Levy Receipts  | \$  | -        |      | \$ | 227,818.35 |
| Other Receipts   | \$  | -        |      | \$ | 227,818.35 |
| Debenture Interest Expenditure                                       |     |          | \$ - | \$ | 227,818.35 |
| Interest on Project Expenditure                                      |     |          | \$ - | \$ | 227,818.35 |
| Interest on Offsite Levy Receipts                                    | \$  | _        | ·    | \$ | 227,818.35 |
| Interest on Other Receipts   | \$  | _        |      | \$ | 227,818.35 |
| Interest on Debenture Accrual  | 1   |          | \$ - | \$ | 227,818.35 |
|  |     |          | · ·  |    |            |
| 2019   |     |          |      | \$ | 227,818.35 |
| Interest on Opening Balance  | \$  | 2,278.18 |      | \$ | 230,096.54 |
| Withdrawal Applied to Project Expenditures                           |     |          | \$ - | \$ | 230,096.54 |
| OSL Share of Expenditures in Addition to Allocations (Front-ending)  |     |          | \$ - | \$ | 230,096.54 |
| Offsite Levy Receipts  | \$  | 106.00   |      | \$ | 230,202.54 |
| Other Receipts   | \$  | -        |      | \$ | 230,202.54 |
| Debenture Interest Expenditure                                       | 1   |          | \$ - | \$ | 230,202.54 |
| Interest on Project Expenditure                                      |     |          | \$ - | \$ | 230,202.54 |
| Interest on Offsite Levy Receipts                                    | \$  | 0.53     | Ψ    | \$ | 230,203.07 |
| Interest on Other Receipts   | \$  | -        |      | \$ | 230,203.07 |
| Interest on Debenture Accrual  | Ψ   |          | \$ - | \$ | 230,203.07 |
|  |     |          | Ψ    | Ψ  | 200,200.07 |
| 2020   |     |          |      | \$ | 230,203.07 |
| Interest on Opening Balance  | \$  | 2,302.03 |      | \$ | 232,505.10 |
| Withdrawal Applied to Project Expenditures                           |     |          | \$ - | \$ | 232,505.10 |
| Other Receipts   |     |          | \$ - | \$ | 232,505.10 |
| Offsite Levy Receipts  | \$  | -        |      | \$ | 232,505.10 |
| Offsite Levy Receipts Collected Under Old Agreement or Old Bylaw (if |     |          |      |    |            |
| any)   | \$  | -        |      | \$ | 232,505.10 |
| Debenture Interest Expenditure                                       | Ť   |          | \$ - | \$ | 232,505.10 |
| Interest on Project Expenditure                                      |     |          | \$ - | \$ | 232,505.10 |
| Interest on Offsite Levy Receipts                                    | \$  | _        | 7    | \$ | 232,505.10 |
| Interest on Other Receipts   | \$  | _        |      | \$ | 232,505.10 |
| Interest on Debenture Accrual  | Ψ   |          | \$ - | \$ | 232,505.10 |
| ווונטוספנ טוו שבשבוונעוב אטטועמו                                     |     |          | Ψ -  | Ψ  | ۵۵۲,505.10 |

## E9. Development and Stormwater Infrastructure Staging Impacts

Stormwater offsite infrastructure will be constructed in staged fashion over the 25-year development period.

To compensate parties for capital they provide in front-ending offsite infrastructure construction, a **2.09%**<sup>12</sup> interest allowance has been charged to the reserve when it is forecast to be in a negative balance. Further, a **1.00%**<sup>13</sup> interest credit has been provided to the reserve when it is forecast to be in a positive balance. The graph and table below outline the forecast water levy reserve balances over the 25-year development period.

If necessary, an interest staging adjustment has been applied to rates (slightly positive or slightly negative) to ensure that the forecast reserve balance at the end of the 25-year review period always returns to break-even (i.e., developers are not charged too much thereby providing a windfall to the County, nor are they charged too little thereby placing an unequitable burden on taxpayers)<sup>14</sup>.



Anticipated Stormwater Offsite Levy Reserve Balances

<sup>&</sup>lt;sup>12</sup> The 20-year debenture rate at the Alberta Capital Finance Authority at the time of writing was ~2.09%. Historic charge rates used in the model are 3.00% (2013-2018), 3.25% (2019-2020).

<sup>&</sup>lt;sup>13</sup> Historic earning rates used in the model are 2.00% (2013-2014), 1.00% (2015-2020).

<sup>&</sup>lt;sup>14</sup> In this case, the stormwater account cannot reach zero at the end of the 25-year review period because there are no projects within the 25-year review period and, therefore, no rates currently.

# Anticipated Stormwater Offsite Levy Reserve Balances

|      |               |    | (         | Ореі | ning Balance | \$<br>232,505    |
|------|---------------|----|-----------|------|--------------|------------------|
| Year | Receipts      | Ex | penditure |      | Interest     | Balance          |
| 2021 | \$<br>-       | \$ | -         | \$   | 2,325        | \$<br>234,830    |
| 2022 | \$<br>-       | \$ | -         | \$   | 2,348        | \$<br>237,178    |
| 2023 | \$<br>30,347  | \$ | -         | \$   | 2,675        | \$<br>270,200    |
| 2024 | \$<br>31,257  | \$ | -         | \$   | 3,015        | \$<br>304,472    |
| 2025 | \$<br>32,211  | \$ | 766,864   | \$   | (8,991)      | \$<br>(439,172)  |
| 2026 | \$<br>-       | \$ | -         | \$   | (9,179)      | \$<br>(448,351)  |
| 2027 | \$<br>-       | \$ | -         | \$   | (9,371)      | \$<br>(457,721)  |
| 2028 | \$<br>-       | \$ | -         | \$   | (9,566)      | \$<br>(467,287)  |
| 2029 | \$<br>-       | \$ | 232,903   | \$   | (14,634)     | \$<br>(714,825)  |
| 2030 | \$<br>29,659  | \$ | -         | \$   | (14,320)     | \$<br>(699,486)  |
| 2031 | \$<br>84,603  | \$ | -         | \$   | (12,851)     | \$<br>(627,734)  |
| 2032 | \$<br>87,141  | \$ | -         | \$   | (11,298)     | \$<br>(551,892)  |
| 2033 | \$<br>89,755  | \$ | -         | \$   | (9,659)      | \$<br>(471,796)  |
| 2034 | \$<br>73,774  | \$ | 285,881   | \$   | (14,294)     | \$<br>(698, 197) |
| 2035 | \$<br>15,149  | \$ | -         | \$   | (14,276)     | \$<br>(697,323)  |
| 2036 | \$<br>15,603  | \$ | -         | \$   | (14,248)     | \$<br>(695,968)  |
| 2037 | \$<br>89,218  | \$ | -         | \$   | (12,681)     | \$<br>(619,431)  |
| 2038 | \$<br>91,894  | \$ | -         | \$   | (11,026)     | \$<br>(538,563)  |
| 2039 | \$<br>94,651  | \$ | -         | \$   | (9,278)      | \$<br>(453,190)  |
| 2040 | \$<br>97,520  | \$ | -         | \$   | (7,433)      | \$<br>(363,103)  |
| 2041 | \$<br>103,197 | \$ | -         | \$   | (5,432)      | \$<br>(265,337)  |
| 2042 | \$<br>87,662  | \$ | -         | \$   | (3,713)      | \$<br>(181,389)  |
| 2043 | \$<br>90,292  | \$ | -         | \$   | (1,904)      | \$<br>(93,001)   |
| 2044 | \$<br>93,001  | \$ | -         | \$   | (0)          | \$<br>(0)        |
| 2045 | \$<br>-       | \$ | -         | \$   | (0)          | \$<br>(0)        |

### **APPENDIX F: OFFSITE INFRASTRUCTURE DEFINITIONS**

# F1. Roadways

Sturgeon County maintains a roadway classification system consistent with the definition of arterial, collector, and local roads contained in the Transportation Association of Canada's Manual of Geometric Design Standards for Canadian Roads.

Arterial Roadways are typically designed as free flowing, with controlled intersection spacing and providing connectivity to the Provincial highway network therefore, Arterials are considered a benefit to the County at large. The cost of such facilities is then assessed proportionately against all benefiting lands through an offsite levy charge.

Collector roads are intended to address interregional travel demands, as secondary connections to the Provincial highway network and origin – destinations. These roadways are typically the second highest volume of traffic which is usually between 200 vehicles per day and 500 vehicles per day and are typically paved. Collectors are considered a benefit to the County at large. The cost of such facilities is then assessed proportionately against all benefiting lands through an offsite levy charge.

Local roads are any roadway which is not classified as either an Arterial, or Collector. Local roads within new development area are constructed by developers, at their cost, in conjunction with the developments.

#### F2. Water

Sturgeon County's philosophy regarding its waterworks system improvements is that development is responsible, at their cost, for the construction of all new distribution mains up to and including 300 mm diameter in size. Primary feeder mains (water mains larger then 300 mm diameter), treated water, storage reservoirs, pumping facilities and water quality monitoring stations benefit the entire water distribution system and thus, the cost of such facilities is then assessed proportionately against all benefiting lands through an offsite levy charge.

Capital improvements to the water supply system are the responsibility of EPCOR. The cost of such improvements are assessed proportionately against the County through the Commission's water utility rate structure and these costs are not included in the County's offsite levy charge.

## F3. Sanitary

The sanitary sewage collection system in Sturgeon County provides wastewater servicing to its residential and non-residential customers through local collection, conveyance, and treatment via wastewater lagoons, or through the Alberta Capital Region Wastewater Commission (ACRWC) infrastructure. The communities / locations serviced by the ACRWC include: Cardiff, Sturgeon Valley, Sturgeon Industrial Park, and the Alberta Industrial Heartland.

Sanitary Sewer systems typically have a hierarchical classification based primarily upon the

size of diameter of pipe and the area they serve. In the case of the sanitary sewer system in Sturgeon County, laterals (locals) are typically 200 mm and 250 mm diameter in size, collectors are 300 mm and 375 mm diameter in size, and trunks are sewer pipe systems greater than 375 mm in diameter.

Trunks, forcemains, and lift stations, benefit the entire sanitary collection system. The cost of such facilities is then assessed proportionately against all benefiting lands through an offsite levy charge.

Development shall be fully responsible for the construction of lateral and collectors for the sanitary sewer system at their entire cost.

Capital improvements to the Regional Treatment Plant and Transmission Line are the responsibility of the ACRWC of which Sturgeon County is a member. The cost of such capital improvements are assessed proportionately against Sturgeon County through the ACRWC sewage utility rate structure and are not included in the Sturgeon County offsite levy charge.

#### F4. Stormwater

Sturgeon County's storm drainage networks primarily consists of a system of drainage ditches, swales and culverts. The networks also includes sewer pipes in some residential subdivisions, and a few stormwater management facilities. Most drainage from the Sturgeon Valley flows into the Sturgeon River, and the majority of the existing residential developments rely on road ditches, drainage channels and natural swales to convey runoff to the River.

Storm drainage networks have a hierarchical classification based primarily upon the size of diameter of pipe. Sturgeon County storm drainage networks consist of laterals between 300 mm and 1050 mm diameter in size which discharges into a trunk line. Trunk lines are greater than 1200 mm in diameter (or equivalent to in capacity, e.g. 2 x 600 mm) and discharge into an outfall. Outfalls can be any structure (man-made or natural) where stormwater is discharged into a river.

Trunks, forcemains, lift stations, and outfalls benefit the entire collection system and the cost of such facilities are assessed proportionately against all benefiting land through an offsite levy charge.

Development shall be fully responsible for the construction of laterals for the storm sewer system at their entire cost.

For rural cross-sections that utilize overland ditching, drainage corridors will be established and the cost of certain rural ditches will be funded by offsite levy charge. Development shall be fully responsible for the construction of other ditches, ponds, etc for the storm sewer system at their entire cost.

# **APPENDIX G: COMPARISON OF RATES**

The table below compares the new Sturgeon Industrial Park offsite levy rates to non-residential rates in other municipalities.

| Municipality / Area   | Average Per Ha.             |
|---|-----------------------------|
| City of Fort Saskatchewan – LMIA* (roads, water, sewer, storm)            | \$46,100 (2017)             |
| Sturgeon Industrial Park* (roads, water, sewer,)                          | \$52,462                    |
| Strathcona County – Industrial Area 1* (roads, water, sewer, storm)       | \$63,000 (2020)             |
| City of Spruce Grove* (roads, water, sewer)                               | \$83,000 (2020)             |
| City of Beaumont* Industrial (roads, water, sewer)                        | \$80,900 - \$116,390 (2019) |
| Parkland County - Acheson / Fifth Meridian*                               | \$92,500 (2018)             |
| Leduc County* - Nisku (roads, water, sewer))                              | \$109,000 (2017)            |
| Red Deer County (Gasoline Alley) (roads, water, sewer, storm)             | \$220,000 (2017)            |
| Strathcona County – Industrial Area 2* (roads, water, sewer, storm)       | \$250,000 (2020)            |
| City of St. Albert – Campbell Business Park* (roads, water, sewer, storm) | \$250,000 (2020)            |
| City of Edmonton (roads, water, sewer, storm)                             | +\$300,000 (2020)           |
| City of Calgary (roads, water, sewer, storm)                              | +\$350,000 (2020)           |

<sup>\*</sup>CORVUS clients

<sup>\*\*</sup>Information adapted from online sources as at Jan 1st, 2021.