

APPENDIX C.1  
TABLE 1

CITY OF NIAGARA FALLS  
INVENTORY OF CAPITAL ASSETS  
SERVICES RELATED TO A HIGHWAY: ROADS & RELATED

| ROADS<br>Type of Road | # of Lane Kilometres |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | UNIT COST<br>(\$/km) |
|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                       | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016                 | 2017                 | 2018                 | 2019                 | 2020                 | 2021                 | 2022                 | 2023                 |                      |
| Collector Roads       | 359.7                | 365.7                | 369.4                | 386.8                | 386.8                | 338.0                | 338.2                | 340.4                | 340.4                | 340.4                | 340.4                | 340.4                | 340.4                | 340.4                | 340.4                | \$1,700,000          |
| Arterial Roads        | 195.3                | 198.5                | 200.6                | 210.0                | 210.0                | 209.6                | 211.6                | 212.6                | 212.6                | 212.6                | 212.6                | 212.6                | 212.6                | 212.6                | 212.6                | \$2,200,000          |
|                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Total (km)</b>     | <b>554.9</b>         | <b>564.2</b>         | <b>570.0</b>         | <b>596.8</b>         | <b>596.8</b>         | <b>547.6</b>         | <b>549.8</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         | <b>553.0</b>         |                      |
| <b>Total (\$000)</b>  | <b>\$1,041,013.4</b> | <b>\$1,058,457.3</b> | <b>\$1,069,298.1</b> | <b>\$1,119,560.0</b> | <b>\$1,119,560.0</b> | <b>\$1,035,720.0</b> | <b>\$1,040,460.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> | <b>\$1,046,400.0</b> |                      |

  

| BRIDGES & CULVERTS<br>Description | # of Bridges & Culverts |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | UNIT COST<br>(\$/unit) |
|-----------------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|
|                                   | 2009                    | 2010              | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              | 2023              |                        |
| Bridges                           | 74                      | 72                | 71                | 71                | 71                | 64                | 64                | 64                | 64                | 64                | 64                | 64                | 64                | 64                | 64                | \$600,000              |
| Culverts                          | 75                      | 75                | 75                | 75                | 75                | 71                | 71                | 69                | 69                | 69                | 69                | 69                | 69                | 69                | 69                | \$450,000              |
|                                   |                         |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                        |
| <b>Total (#)</b>                  | <b>149</b>              | <b>147</b>        | <b>146</b>        | <b>146</b>        | <b>146</b>        | <b>135</b>        | <b>135</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        | <b>133</b>        |                        |
| <b>Total (\$000)</b>              | <b>\$78,150.0</b>       | <b>\$76,950.0</b> | <b>\$76,350.0</b> | <b>\$76,350.0</b> | <b>\$76,350.0</b> | <b>\$70,350.0</b> | <b>\$70,350.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> | <b>\$69,450.0</b> |                        |

  

| TRAFFIC CONTROL<br>Description | # of Traffic Signals |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | UNIT COST<br>(\$/unit) |
|--------------------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|
|                                | 2009                 | 2010              | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              | 2023              |                        |
| Signalized Intersections       | 48                   | 48                | 49                | 50                | 50                | 48                | 48                | 48                | 48                | 48                | 48                | 49                | 49                | 49                | 49                | \$450,000              |
| Flashing Beacons               | 7                    | 7                 | 7                 | 7                 | 7                 | 12                | 12                | 12                | 12                | 12                | 12                | 12                | 12                | 12                | 12                | \$10,000               |
| Pedestrian Crossovers          | -                    | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | 1                 | 1                 | 1                 | 1                 | 1                 | \$200,000              |
| Traffic Calming Measures       | 21                   | 23                | 31                | 31                | 31                | 33                | 40                | 44                | 44                | 61                | 67                | 74                | 88                | 97                | 106               | \$15,000               |
| Train Sensors                  | -                    | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | 14                | 14                | 14                | 14                | \$40,000               |
|                                |                      |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                        |
| <b>Total (#)</b>               | <b>76</b>            | <b>78</b>         | <b>87</b>         | <b>88</b>         | <b>88</b>         | <b>93</b>         | <b>100</b>        | <b>104</b>        | <b>104</b>        | <b>121</b>        | <b>128</b>        | <b>150</b>        | <b>164</b>        | <b>173</b>        | <b>182</b>        |                        |
| <b>Total (\$000)</b>           | <b>\$21,985.0</b>    | <b>\$22,015.0</b> | <b>\$22,585.0</b> | <b>\$23,035.0</b> | <b>\$23,035.0</b> | <b>\$22,215.0</b> | <b>\$22,320.0</b> | <b>\$22,380.0</b> | <b>\$22,380.0</b> | <b>\$22,635.0</b> | <b>\$22,925.0</b> | <b>\$24,040.0</b> | <b>\$24,250.0</b> | <b>\$24,385.0</b> | <b>\$24,520.0</b> |                        |

  

| TRAFFIC HARDWARE<br>Description | # of Traffic Hardware |               |               |               |               |               |               |               |               |               |               |               |               |               |               | UNIT COST<br>(\$/unit) |
|---------------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------------|
|                                 | 2009                  | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |                        |
| Traffic Counters                | 6                     | 6             | 6             | 6             | 6             | 6             | 6             | 7             | 7             | 8             | -             | 2             | 2             | 2             | 2             | \$5,000                |
| Radar Speed Boards (Permanent)  | 2                     | 2             | 2             | 2             | 2             | 4             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | \$10,000               |
| Radar Speed Boards (Portable)   | -                     | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | 4             | 4             | 4             | 4             | \$3,000                |
|                                 |                       |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                        |
| <b>Total (#)</b>                | <b>8</b>              | <b>8</b>      | <b>8</b>      | <b>8</b>      | <b>8</b>      | <b>10</b>     | <b>11</b>     | <b>12</b>     | <b>12</b>     | <b>13</b>     | <b>5</b>      | <b>11</b>     | <b>11</b>     | <b>11</b>     | <b>11</b>     |                        |
| <b>Total (\$000)</b>            | <b>\$50.0</b>         | <b>\$50.0</b> | <b>\$50.0</b> | <b>\$50.0</b> | <b>\$50.0</b> | <b>\$70.0</b> | <b>\$80.0</b> | <b>\$85.0</b> | <b>\$85.0</b> | <b>\$90.0</b> | <b>\$50.0</b> | <b>\$72.0</b> | <b>\$72.0</b> | <b>\$72.0</b> | <b>\$72.0</b> |                        |

APPENDIX C.1  
TABLE 1

CITY OF NIAGARA FALLS  
CALCULATION OF SERVICE LEVELS  
SERVICES RELATED TO A HIGHWAY: ROADS & RELATED

|  | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Historical Population                    | 82,671        | 82,834        | 82,997        | 83,988        | 84,991        | 86,006        | 87,033        | 88,071        | 89,305        | 90,556        | 91,825        | 93,111        | 94,415        | 95,861        | 97,327        |
| Historical Employment                    | <u>39,971</u> | <u>39,741</u> | <u>39,512</u> | <u>39,692</u> | <u>39,873</u> | <u>40,054</u> | <u>40,236</u> | <u>40,419</u> | <u>39,874</u> | <u>39,336</u> | <u>38,805</u> | <u>38,282</u> | <u>37,766</u> | <u>38,344</u> | <u>38,930</u> |
| Total Historical Population & Employment | 122,642       | 122,575       | 122,509       | 123,680       | 124,864       | 126,060       | 127,269       | 128,490       | 129,179       | 129,892       | 130,630       | 131,393       | 132,181       | 134,205       | 136,257       |

INVENTORY SUMMARY (\$000)

|                    |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Roads              | \$1,041,013.4 | \$1,058,457.3 | \$1,069,298.1 | \$1,119,560.0 | \$1,119,560.0 | \$1,035,720.0 | \$1,040,460.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 | \$1,046,400.0 |
| Bridges & Culverts | \$78,150.0    | \$76,950.0    | \$76,350.0    | \$76,350.0    | \$76,350.0    | \$70,350.0    | \$70,350.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    | \$69,450.0    |
| Traffic Control    | \$21,985.0    | \$22,015.0    | \$22,585.0    | \$23,035.0    | \$23,035.0    | \$22,215.0    | \$22,320.0    | \$22,380.0    | \$22,380.0    | \$22,635.0    | \$22,925.0    | \$24,040.0    | \$24,250.0    | \$24,385.0    | \$24,520.0    |
| Traffic Hardware   | \$50.0        | \$50.0        | \$50.0        | \$50.0        | \$50.0        | \$70.0        | \$80.0        | \$85.0        | \$85.0        | \$90.0        | \$50.0        | \$72.0        | \$72.0        | \$72.0        | \$72.0        |
| Total (\$000)      | \$1,141,198.4 | \$1,157,472.3 | \$1,168,283.1 | \$1,218,995.0 | \$1,218,995.0 | \$1,128,355.0 | \$1,133,210.0 | \$1,138,315.0 | \$1,138,315.0 | \$1,138,575.0 | \$1,138,825.0 | \$1,139,962.0 | \$1,140,172.0 | \$1,140,307.0 | \$1,140,442.0 |

SERVICE LEVEL (\$/pop & emp)

|                      |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Roads                | \$8,488.23 | \$8,635.18 | \$8,728.32 | \$9,052.07 | \$8,966.24 | \$8,216.09 | \$8,175.28 | \$8,143.82 | \$8,100.39 | \$8,055.92 | \$8,010.41 | \$7,963.89 | \$7,916.42 | \$7,797.03 | \$7,679.61 | \$8,261.93 |
| Bridges & Culverts   | \$637.22   | \$627.78   | \$623.22   | \$617.32   | \$611.47   | \$558.07   | \$552.77   | \$540.51   | \$537.63   | \$534.67   | \$531.65   | \$528.57   | \$525.42   | \$517.49   | \$509.70   | \$563.56   |
| Traffic Control      | \$179.26   | \$179.60   | \$184.35   | \$186.25   | \$184.48   | \$176.23   | \$175.38   | \$174.18   | \$173.25   | \$174.26   | \$175.50   | \$182.96   | \$183.46   | \$181.70   | \$179.95   | \$179.39   |
| Traffic Hardware     | \$0.41     | \$0.41     | \$0.41     | \$0.40     | \$0.40     | \$0.56     | \$0.63     | \$0.66     | \$0.66     | \$0.69     | \$0.38     | \$0.55     | \$0.54     | \$0.54     | \$0.53     | \$0.52     |
| Total (\$/pop & emp) | \$9,305.12 | \$9,442.97 | \$9,536.30 | \$9,856.04 | \$9,762.58 | \$8,950.94 | \$8,904.05 | \$8,859.17 | \$8,811.92 | \$8,765.55 | \$8,717.94 | \$8,675.97 | \$8,625.84 | \$8,496.75 | \$8,369.79 | \$9,005.40 |

Average  
Service  
Level

CITY OF NIAGARA FALLS  
CALCULATION OF MAXIMUM ALLOWABLE  
SERVICES RELATED TO A HIGHWAY: ROADS & RELATED

|  |                      |
|--|----------------------|
| <b>15-Year Funding Envelope Calculation</b>    |                      |
| 15 Year Average Service Level 2009 - 2023      | \$9,005.40           |
| Net Population & Employment Growth 2024 - 2033 | 22,305               |
| <b>Maximum Allowable Funding Envelope</b>      | <b>\$200,865,447</b> |

**APPENDIX C.1**  
**TABLE 2**  
**CITY OF NIAGARA FALLS**  
**DEVELOPMENT-RELATED CAPITAL PROGRAM**  
**SERVICES RELATED TO A HIGHWAY: ROADS AND RELATED**

| NO. | Roads and Related   | Project No. | Limits  | Approx. Length (m) | Infrastructure   | Type of Improvement | Timing      | Gross Cost  | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |             | Total DC Eligible Costs | DC Eligible Costs          |             |             |
|-----|---|-------------|---|--------------------|--|---------------------|-------------|-------------|----------------------|--------------------|------------------|-------------|-------------------------|----------------------------|-------------|-------------|
|     |   |             |   |                    |  |                     |             |             |                      |                    | BTE %            | BTE \$      |                         | Available DC Reserve Funds | 2024-2033   | Post 2033   |
| 1   | 2023 Asphalt Overlay Program - DC   | R151-23     |   |                    |  |                     | 2024 - 2028 | \$480,793   | \$0                  | \$480,793          | 0%               | \$0         | \$480,793               | \$0                        | \$480,793   | \$0         |
| 2   | 2024 Asphalt Overlay Program - DC   | R163-24     |   |                    |  |                     | 2024 - 2028 | \$285,000   | \$0                  | \$285,000          | 0%               | \$0         | \$285,000               | \$0                        | \$285,000   | \$0         |
| 3   | 2025 Asphalt Overlay (DC) - Brown Road, Blackburn Parkway   |             |   | 1350               |  |                     | 2025 - 2025 | \$2,295,000 | \$0                  | \$2,295,000        | 29%              | \$675,000   | \$1,620,000             | \$0                        | \$1,620,000 | \$0         |
| 4   | Asphalt Overlay - Provision for Future Years  |             |   |                    |  |                     | 2026 - 2033 | \$4,000,000 | \$0                  | \$4,000,000        | 29%              | \$1,176,471 | \$2,823,529             | \$0                        | \$2,823,529 | \$0         |
| 5   | Allendale Avenue (Ferry Street - Robinson Street)   |             | Ferry Street - Robinson Street                  | 365                | Road Upgrade   | Rehabilitation      | 2024 - 2028 | \$1,964,700 | \$0                  | \$1,964,700        | 9%               | \$182,500   | \$1,782,200             | \$1,782,200                | \$0         | \$0         |
| 6   | Beaverdams Road Reconstruction  | MS65-23     |   | 1300               |  |                     | 2024 - 2028 | \$3,192,000 | \$0                  | \$3,192,000        | 20%              | \$650,000   | \$2,542,000             | \$0                        | \$2,542,000 | \$0         |
| 7   | Beechwood Road Improvements   |             | Lundy's Lane to Brown Road                      | 3200               | Road Upgrade   | New Development     | 2029 - 2033 | \$5,440,000 | \$0                  | \$5,440,000        | 29%              | \$1,600,000 | \$3,840,000             | \$0                        | \$3,840,000 | \$0         |
| 8   | Biggar Road Improvements Phase 1 - DC DEBT TO BE ISSUED   |             | Montrose Road to Unopen Road Allowance          | 850                | Road Upgrade   | New Development     | 2024 - 2028 | \$7,000,000 | \$0                  | \$7,000,000        | 6%               | \$425,000   | \$6,575,000             | \$0                        | \$6,575,000 | \$0         |
| 9   | Biggar Road Improvements Phase 2  |             | Unopen Road Allowance to Crowland Avenue        | 860                | Road Upgrade   | New Development     | 2029 - 2033 | \$1,462,000 | \$0                  | \$1,462,000        | 29%              | \$430,000   | \$1,032,000             | \$0                        | \$604,280   | \$427,720   |
| 10  | Biggar Road Improvements Phase 3  |             | Crowland Avenue to westerly City Limits         | 2090               | Road Upgrade   | New Development     | 2029 - 2033 | \$3,553,000 | \$0                  | \$3,553,000        | 29%              | \$1,045,000 | \$2,508,000             | \$0                        | \$1,468,542 | \$1,039,458 |
| 11  | Brown Road Improvements   |             | Beechwood Road to 550m West of Kalar Road       | 1330               | Road Upgrade   | New Development     | 2029 - 2033 | \$2,261,000 | \$0                  | \$2,261,000        | 29%              | \$665,000   | \$1,596,000             | \$0                        | \$1,596,000 | \$0         |
| 12  | Chippawa Parkway Improvements Phase 2   |             | 1200m west of Stanley Avenue to Stanley Avenue  | 1200               | Road Upgrade   | New Development     | 2029 - 2033 | \$2,040,000 | \$0                  | \$2,040,000        | 29%              | \$600,000   | \$1,440,000             | \$0                        | \$1,440,000 | \$0         |
| 13  | Chippawa Parkway Improvements Phase 1 (Cost Sharing)  |             | Dorchester Road to 1200m west of Stanley Avenue | 2700               | Road Upgrade   | New Development     | 2024 - 2028 | \$3,200,000 | \$0                  | \$3,200,000        | 42%              | \$1,350,000 | \$1,850,000             | \$0                        | \$1,850,000 | \$0         |
| 14  | Dorchester Road (Frederica Street - McLeod Road) - EA   |             | Frederica Street - McLeod Road                  |                    | EA   | Study               | 2024 - 2028 | \$215,100   | \$0                  | \$215,100          | 0%               | \$0         | \$215,100               | \$215,100                  | \$0         | \$0         |
| 15  | Dorchester Road (McLeod Road - Chippawa Parkway) and Chippawa Parkway (Dorchester Road - Stanley Avenue) - EA |             | McLeod Road - Stanley Avenue                    |                    | Riverfront Development - Road/Capacity Improvements, & Roundabout at Oldfield Road | Study (Development) | 2024 - 2028 | \$258,100   | \$0                  | \$258,100          | 0%               | \$0         | \$258,100               | \$258,100                  | \$0         | \$0         |
| 16  | Dorchester Road (Thorold Stone Road - Pinedale Drive) - EA  |             | Thorold Stone Road - Pinedale Drive             |                    | EA   | Study               | 2024 - 2028 | \$250,000   | \$0                  | \$250,000          | 0%               | \$0         | \$250,000               | \$250,000                  | \$0         | \$0         |
| 17  | Dorchester Road (Including Oldfield/Dorchester Intersection)  |             | Oldfield Road to Chippawa Parkway               | 1000               | Road/Intersection Upgrade  | New Development     | 2024 - 2028 | \$2,700,000 | \$0                  | \$2,700,000        | 19%              | \$500,000   | \$2,200,000             | \$0                        | \$2,200,000 | \$0         |
| 18  | Drummond Rd Improvements (Hydro Corridor to Mcleod Rd) DC DEBT TO BE ISSUED                                   | R124-20     |   |                    |  |                     | 2024 - 2028 | \$1,420,000 | \$0                  | \$1,420,000        | 10%              | \$142,000   | \$1,278,000             | \$0                        | \$1,278,000 | \$0         |
| 19  | Drummond Rd Improvements (Hydro Corridor to Mcleod Rd)  | R124-20     |   |                    |  |                     | 2024 - 2028 | \$94,360    | \$0                  | \$94,360           | 0%               | \$0         | \$94,360                | \$0                        | \$94,360    | \$0         |
| 20  | Dorchester & Oldfield Intersection EA Design  | R137-21     |   |                    |  |                     | 2024 - 2028 | \$115,992   | \$0                  | \$115,992          | 0%               | \$0         | \$115,992               | \$0                        | \$115,992   | \$0         |
| 21  | Ferry Street @ Fallsview Boulevard  |             |   |                    | New Traffic Signal Install   | Capital             | 2024 - 2028 | \$450,000   | \$0                  | \$450,000          | 0%               | \$0         | \$450,000               | \$450,000                  | \$0         | \$0         |

**APPENDIX C.1**  
**TABLE 2**  
**CITY OF NIAGARA FALLS**  
**DEVELOPMENT-RELATED CAPITAL PROGRAM**  
**SERVICES RELATED TO A HIGHWAY: ROADS AND RELATED**

| NO.   | Roads and Related  | Project No. | Limits                                 | Approx. Length (m) | Infrastructure                       | Type of Improvement              | Timing      | Gross Cost          | Grants and Subsidies | Net Municipal Cost  | Ineligible Costs |                     | Total DC Eligible Costs | DC Eligible Costs          |                     |                    |
|---|--|-------------|--|--------------------|--------------------------------------|----------------------------------|-------------|---------------------|----------------------|---------------------|------------------|---------------------|-------------------------|----------------------------|---------------------|--------------------|
|   |  |             |  |                    |                                      |                                  |             |                     |                      |                     | BTE %            | BTE \$              |                         | Available DC Reserve Funds | 2024-2033           | Post 2033          |
| 22  | Garner Road (Brown Road - Warren Woods Avenue)                         |             | Brown Road - Warren Woods Avenue       | 436                | Road Upgrade                         | New Development                  | 2024 - 2028 | \$702,600           | \$0                  | \$702,600           | 31%              | \$218,000           | \$484,600               | \$484,600                  | \$0                 | \$0                |
| 23  | Garner Road Improvements   |             | McLeod Road to Lundy's Lane            | 2000               | Road Upgrade                         | New Development                  | 2029 - 2033 | \$5,400,000         | \$0                  | \$5,400,000         | 19%              | \$1,000,000         | \$4,400,000             | \$0                        | \$4,400,000         | \$0                |
| 24  | Kalar Road Street Lighting Improvements (Brown Road to Hydro Corridor) | R117        |  |                    |                                      |                                  | 2024 - 2027 | \$41,650            | \$0                  | \$41,650            | 0%               | \$0                 | \$41,650                | \$0                        | \$41,650            | \$0                |
| 25  | Kalar Road (Lundy's Lane - Beaverdams Road)                            |             | Lundy's Lane - Beaverdams Road         | 740                | Road Upgrade                         | Additional Lanes                 | 2024 - 2028 | \$3,100,200         | \$0                  | \$3,100,200         | 12%              | \$370,000           | \$2,730,200             | \$2,730,200                | \$0                 | \$0                |
| 26  | Kalar Road @ Beaverdams Road   |             | Intersection                           |                    | New Traffic Signal Install           | Capital                          | 2024 - 2028 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$450,000                  | \$0                 | \$0                |
| 27  | Kalar Road Improvements  |             | Mountain Road to Throld Stone Road     | 2400               | Road Upgrade                         | New Development                  | 2029 - 2033 | \$4,080,000         | \$0                  | \$4,080,000         | 29%              | \$1,200,000         | \$2,880,000             | \$0                        | \$2,880,000         | \$0                |
| 28  | McLeod Road (Kalar Road - Garner Road)                                 |             | Kalar Road - Garner Road               | 1000               |                                      | Land Purchase & Additional Lanes | 2024 - 2028 | \$3,476,900         | \$0                  | \$3,476,900         | 0%               | \$0                 | \$3,476,900             | \$25,411                   | \$3,451,489         | \$0                |
| 29  | McLeod Road @ Garner Road  |             |  |                    | New Traffic Signal Install           | Capital                          | 2024 - 2028 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$0                        | \$450,000           | \$0                |
| 30  | McLeod Road - MCEA   | TSP51-21    | Kalar Road to Townline Road            |                    |                                      |                                  | 2024 - 2028 | \$250,000           | \$0                  | \$250,000           | 0%               | \$0                 | \$250,000               | \$0                        | \$250,000           | \$0                |
| 31  | McLeod Road Improvements (Garner Road to Townline Road)                |             | Garner Road to Townline Road           | 2200               | Road Upgrade                         | New Development                  | 2029 - 2033 | \$5,740,000         | \$0                  | \$5,740,000         | 19%              | \$1,100,000         | \$4,640,000             | \$0                        | \$4,640,000         | \$0                |
| 32  | Mewburn Road (Scholfield Street - Mountain Road)                       |             | Scholfield Street - Mountain Road      | 520                | Road Upgrade                         | New Development                  | 2029 - 2033 | \$880,600           | \$0                  | \$880,600           | 30%              | \$260,000           | \$620,600               | \$0                        | \$620,600           | \$0                |
| 33  | Portage Road (Norton Street - Macklem Street)                          |             | Norton Street - Macklem Street         | 480                | Road Upgrade (Design & Construction) | Rehabilitation                   | 2029 - 2033 | \$1,851,900         | \$0                  | \$1,851,900         | 13%              | \$240,000           | \$1,611,900             | \$0                        | \$1,611,900         | \$0                |
| 34  | Portage Road (Main Street - Marineland Parkway) - EA                   |             | Main Street - Marineland Parkway       |                    | TMP                                  | Study                            | 2029 - 2033 | \$250,000           | \$0                  | \$250,000           | 0%               | \$0                 | \$250,000               | \$0                        | \$250,000           | \$0                |
| 35  | Portage Road (Marineland Parkway - Upper Rapids Road) - EA             |             | Marineland Parkway - Upper Rapids Road |                    | TMP                                  | Study                            | 2029 - 2033 | \$250,000           | \$0                  | \$250,000           | 0%               | \$0                 | \$250,000               | \$0                        | \$250,000           | \$0                |
| 36  | Reixinger Road - Grassy Brook Area including Dell Road                 |             | Lyons Creek Road to QEW                | 2675               |                                      |                                  | 2024 - 2028 | \$3,745,000         | \$0                  | \$3,745,000         | 0%               | \$0                 | \$3,745,000             | \$0                        | \$3,745,000         | \$0                |
| 37  | Reixinger Road Extension/Street A                                      |             | Montrose Road to West Limit            | 190                | New Road                             | New Development                  | 2024 - 2028 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$0                        | \$450,000           | \$0                |
| 38  | Road Widening for new South Niagara Hospital                           | R147-22     |  |                    |                                      |                                  | 2024 - 2028 | \$950,000           | \$0                  | \$950,000           | 0%               | \$0                 | \$950,000               | \$0                        | \$950,000           | \$0                |
| 39  | Robinson Street (Stanley Avenue - East Limit) - EA                     |             | Stanley Avenue - East Limit            |                    | New Developments                     | Study                            | 2024 - 2028 | \$250,000           | \$0                  | \$250,000           | 0%               | \$0                 | \$250,000               | \$0                        | \$250,000           | \$0                |
| 40  | Robinson Street @ Fallsview Boulevard                                  |             |  |                    | New Traffic Signal Install           | Capital                          | 2024 - 2028 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$0                        | \$450,000           | \$0                |
| 41  | Transportation Master Plan Update                                      | TSP55-2022  |  |                    |                                      |                                  | 2024 - 2028 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$0                        | \$450,000           | \$0                |
| 42  | Transportation Master Plan Update                                      |             |  |                    |                                      |                                  | 2029 - 2033 | \$450,000           | \$0                  | \$450,000           | 0%               | \$0                 | \$450,000               | \$0                        | \$450,000           | \$0                |
| 43  | Willick Road (Sodom Road - Ort Road)                                   |             | Sodom Road - Ort Road                  | 1000               | Road Upgrade                         | New Development                  | 2024 - 2028 | \$2,541,400         | \$0                  | \$2,541,400         | 20%              | \$500,000           | \$2,041,400             | \$0                        | \$2,041,400         | \$0                |
| 44  | Willick Road (Sodom Road - Ort Road)                                   |             | Sodom Road - Ort Road                  | N/A                | Box Culvert Crossing Replacement     | New Development                  | 2024 - 2028 | \$75,000            | \$0                  | \$75,000            | 0%               | \$0                 | \$75,000                | \$0                        | \$75,000            | \$0                |
| 45  | Willick Road (Sodom Road - Willoughby Drive)                           |             | Sodom Road - Willoughby Drive          | 1000               | New Road                             | New Development                  | 2024 - 2028 | \$2,455,400         | \$0                  | \$2,455,400         | 0%               | \$0                 | \$2,455,400             | \$0                        | \$2,455,400         | \$0                |
| 46  | Victoria Centre Streetscape Revitalization Phase 3 (Design)            | R119-19     |  |                    |                                      |                                  | 2024 - 2028 | \$250,000           | \$0                  | \$250,000           | 0%               | \$0                 | \$250,000               | \$0                        | \$250,000           | \$0                |
|   |  |             |  |                    |                                      |                                  |             |                     |                      |                     |                  |                     |                         |                            |                     |                    |
|   |  |             |  |                    |                                      |                                  |             |                     |                      |                     |                  |                     |                         |                            |                     |                    |
|   |  |             |  |                    |                                      |                                  |             |                     |                      |                     |                  |                     |                         |                            |                     |                    |
| <b>TOTAL SERVICES RELATED TO A HIGHWAY: ROADS AND RELATED</b> |  |             |  |                    |                                      |                                  |             | <b>\$81,667,695</b> | <b>\$0</b>           | <b>\$81,667,695</b> |                  | <b>\$14,328,971</b> | <b>\$67,338,725</b>     | <b>\$6,645,611</b>         | <b>\$59,225,936</b> | <b>\$1,467,178</b> |

APPENDIX C.1

TABLE 2

CITY OF NIAGARA FALLS  
DEVELOPMENT-RELATED CAPITAL PROGRAM  
SERVICES RELATED TO A HIGHWAY: ROADS AND RELATED

| NO.  | Sidewalks  | Project No. | Limits  | Approx. Length (m) | Infrastructure | Type of Improvement              | Timing      | Gross Cost   | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |              | Total DC Eligible Costs | DC Eligible           |              |             |
|--|--|-------------|---|--------------------|----------------|----------------------------------|-------------|--------------|----------------------|--------------------|------------------|--------------|-------------------------|-----------------------|--------------|-------------|
|  |  |             |   |                    |                |                                  |             |              |                      |                    | BTE %            | BTE \$       |                         | Available DC Reserves | 2024-2033    | Post 2033   |
| 1  | Drummond Road (McLeod Road - Hydro Corridor)                     |             | McLeod Road - Hydro Corridor                    |                    | Sidewalk       | New Improvement to Existing Road | 2024 - 2028 | \$116,900    | \$0                  | \$116,900          | 40%              | \$46,760     | \$70,140                | \$0                   | \$70,140     | \$0         |
| 2  | Heartland Forest Road (Brown Road - Chippawa Parkway)            |             | Brown Road - Chippawa Parkway                   |                    | Sidewalk       | New Improvement to Existing Road | 2024 - 2028 | \$278,200    | \$0                  | \$278,200          | 40%              | \$111,280    | \$166,920               | \$0                   | \$166,920    | \$0         |
| 3  | Kalar Road (Lundy's Lane - Beaverdams Road)                      |             | Lundy's Lane - Beaverdams Road                  |                    | Sidewalk       | New Improvement to Existing Road | 2024 - 2028 | \$232,300    | \$0                  | \$232,300          | 40%              | \$92,920     | \$139,380               | \$0                   | \$139,380    | \$0         |
| 4  | Mewburn Road (Scholfield Street - Mountain Road)                 |             | Scholfield Street - Mountain Road               | 520                | Sidewalk       | New Improvement to Existing Road | 2024 - 2028 | \$143,400    | \$0                  | \$143,400          | 40%              | \$57,360     | \$86,040                | \$0                   | \$86,040     | \$0         |
| 5  | New Sidewalk Construction  | R104        | Misc Missing Links                              | 1000               | Sidewalk       |                                  | 2024 - 2028 | \$369,900    | \$0                  | \$369,900          | 25%              | \$92,475     | \$277,425               | \$0                   | \$277,425    | \$0         |
| 6  | Thorold Stone Road Extension sidewalk/Multi-Use Path             |             | Fourth Avenue to Victoria Avenue                | 1000               | Sidewalk       |                                  | 2024 - 2028 | \$200,000    | \$0                  | \$200,000          | 25%              | \$50,000     | \$150,000               | \$0                   | \$150,000    | \$0         |
| 7  | Chippawa Parkway Phase 1 Multi-Use Path                          |             | Dorchester Road to 1200m west of Stanley Avenue | 2700               | Sidewalk       |                                  | 2024 - 2028 | \$540,000    | \$0                  | \$540,000          | 25%              | \$135,000    | \$405,000               | \$0                   | \$405,000    | \$0         |
| 8  | Chippawa Parkway Phase 2 Multi-Use Path                          |             | 1200m west of Stanley Avenue to Stanley Avenue  | 1200               | Sidewalk       |                                  | 2029 - 2033 | \$240,000    | \$0                  | \$240,000          | 25%              | \$60,000     | \$180,000               | \$0                   | \$180,000    | \$0         |
| 9  | Dorchester Road Multi-Use Path                                   |             | Oldfield Road to Chippawa Parkway               | 1000               | Sidewalk       |                                  | 2024 - 2028 | \$200,000    | \$0                  | \$200,000          | 25%              | \$50,000     | \$150,000               | \$0                   | \$150,000    | \$0         |
| 10   | Montrose Road Sdkw/Multi-use Path - DC DEBT TO BE ISSUED         |             | Grassy Brook to Lyons Parkway                   | 1500               | Sidewalk       |                                  | 2024 - 2028 | \$300,000    | \$0                  | \$300,000          | 25%              | \$75,000     | \$225,000               | \$0                   | \$225,000    | \$0         |
| 11   | Montrose Road Sdkw/Multi-use Path                                |             | Grassy Brook to McLeod                          | 3200               | Sidewalk       |                                  | 2029 - 2033 | \$640,000    | \$0                  | \$640,000          | 25%              | \$160,000    | \$480,000               | \$0                   | \$480,000    | \$0         |
| 12   | Fallsview District - Miscellaneous Locations                     |             |   |                    | Sidewalk       | New Improvement to Existing Road | 2029 - 2033 | \$143,400    | \$0                  | \$143,400          | 50%              | \$71,700     | \$71,700                | \$71,700              | \$0          | \$0         |
| 13   | Murray Street (Stanley Avenue - Main Street)                     |             | Stanley Avenue - Main Street                    | 125                | Sidewalk       | New Improvement to Existing Road | 2029 - 2033 | \$17,900     | \$0                  | \$17,900           | 50%              | \$8,950      | \$8,950                 | \$8,950               | \$0          | \$0         |
| 14   | Stanley Avenue (Murray Street - Main Street)                     |             | Murray Street - Main Street                     |                    | Sidewalk       | New Improvement to Existing Road | 2029 - 2033 | \$30,800     | \$0                  | \$30,800           | 50%              | \$15,400     | \$15,400                | \$15,400              | \$0          | \$0         |
| 15   | Falls Avenue (Stanley Avenue - Victoria Avenue) (1,000m x2)      |             | Stanley Avenue - Victoria Avenue                | 2000               | Sidewalk       | New Improvement to Existing Road | 2029 - 2033 | \$286,800    | \$0                  | \$286,800          | 50%              | \$143,400    | \$143,400               | \$143,400             | \$0          | \$0         |
| 16   | Fallsview Boulevard (Main Street - Dunn Street) - West Side Only |             | Main Street - Dunn Street                       | 100                | Sidewalk       |                                  | 2029 - 2033 | \$143,400    | \$0                  | \$143,400          | 50%              | \$71,700     | \$71,700                | \$71,700              | \$0          | \$0         |
| 17   | Portage Road (Fallsview Boulevard - Marineland Parkway)          |             | Fallsview Boulevard - Marineland Parkway        |                    | Sidewalk       | New Improvement to Existing Road | 2029 - 2033 | \$215,100    | \$0                  | \$215,100          | 50%              | \$107,550    | \$107,550               | \$107,550             | \$0          | \$0         |
| SIDEWALKS  |  |             |   |                    |                |                                  |             | \$4,098,100  | \$0                  | \$4,098,100        |                  | \$1,349,495  | \$2,748,605             | \$418,700             | \$2,329,905  | \$0         |
| TOTAL SERVICES RELATED TO HIGHWAY: ROAD AND RELATED SERVICES |  |             |   |                    |                |                                  |             | \$85,765,795 | \$0                  | \$85,765,795       |                  | \$15,678,466 | \$70,087,330            | \$7,064,311           | \$61,555,841 | \$1,467,178 |

|                                  |               |
|----------------------------------|---------------|
| 2024 - 2033 Net Funding Envelope | \$200,865,447 |
| Reserve Fund Balance             |               |
| Balance as at December 31, 2023  | \$7,064,311   |

## APPENDIX C.3

TABLE 1

CITY OF NIAGARA FALLS  
DEVELOPMENT-RELATED CAPITAL PROGRAM  
WATER SERVICES

| NO. | Outside Core Tourist Area  | Project No. | Limits   | Approx. Length (m) | Infrastructure | Type of Improvement | Timing      | Gross Cost  | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |             | Total DC Eligible Costs | DC Eligible                |             |           |
|-----|--|-------------|--|--------------------|----------------|---------------------|-------------|-------------|----------------------|--------------------|------------------|-------------|-------------------------|----------------------------|-------------|-----------|
|     |  |             |  |                    |                |                     |             |             |                      |                    | BTE %            | BTE \$      |                         | Available DC Reserve Funds | 2024-2033   | Post 2033 |
| 1   | Beechwood Road Watermain   |             | Brown Road to Lundy's Lane                           | 3200               | Watermain      | New Development     | 2029 - 2033 | \$4,160,000 | \$0                  | \$4,160,000        | 0%               | \$0         | \$4,160,000             | \$0                        | \$4,160,000 | \$0       |
| 2   | Biggar Road (Montrose Road – Unopened Road Allowance (south side)) - Hospital - DC Debt to be issued |             | Montrose Road – Unopened Road Allowance (south side) | 865                | Watermain      | New Development     | 2024 - 2028 | \$900,000   | \$0                  | \$900,000          | 0%               | \$0         | \$900,000               | \$0                        | \$900,000   | \$0       |
| 3   | Biggar Road Watermain Trunk Phase 2  |             | Unopened ROW to Crowland Avenue                      | 900                | Watermain      | New Development     | 2029 - 2033 | \$900,000   | \$0                  | \$900,000          | 0%               | \$0         | \$900,000               | \$0                        | \$526,989   | \$373,011 |
| 4   | Brown Road Watermain Phase 1   |             | Westerly Garner Road to Montrose Road                | 2400               | Watermain      | Replacement/Upgrade | 2024 - 2024 | \$3,120,000 | \$0                  | \$3,120,000        | 25%              | \$780,000   | \$2,340,000             | \$1,350,372                | \$989,628   | \$0       |
| 5   | Brown Road Watermain Phase 2   |             | Beachwood Road to Westerly Garner Road               | 700                | Watermain      | New Development     | 2029 - 2033 | \$910,000   | \$0                  | \$910,000          | 0%               | \$0         | \$910,000               | \$0                        | \$910,000   | \$0       |
| 6   | Chippawa Parkway (Dorchester Road – 1200m east of Stanley) Cost Sharing Only                         |             | Dorchester Road – 1200m east of Stanley              | 250                | Watermain      | New Development     | 2024 - 2028 | \$540,000   | \$0                  | \$540,000          | 50%              | \$270,000   | \$270,000               | \$0                        | \$270,000   | \$0       |
| 7   | Chippawa Parkway (1200m east of Stanley to Don Murie Street) Looping                                 |             | 1200m east of Stanley to Don Murie Street            | 1100               | Watermain      | New Development     | 2028 - 2033 | \$1,100,000 | \$0                  | \$1,100,000        | 50%              | \$550,000   | \$550,000               | \$0                        | \$550,000   | \$0       |
| 8   | Cast Iron Watermain Replacement Program Years 1-5  | New         | Ann St   | 306                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$901,000   | \$0                  | \$901,000          | 90%              | \$810,900   | \$90,100                | \$0                        | \$90,100    | \$0       |
| 9   | Cast Iron Watermain Replacement Program Years 1-5  | New         | Biamonte Crescent and Parkway                        | 396                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,165,000 | \$0                  | \$1,165,000        | 90%              | \$1,048,500 | \$116,500               | \$0                        | \$116,500   | \$0       |
| 10  | Cast Iron Watermain Replacement Program Years 1-5  | New         | Burdette Drive                                       | 584                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,719,000 | \$0                  | \$1,719,000        | 90%              | \$1,547,100 | \$171,900               | \$0                        | \$171,900   | \$0       |
| 11  | Cast Iron Watermain Replacement Program Years 1-5  | New         | Douglas Crescent                                     | 345                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,017,000 | \$0                  | \$1,017,000        | 90%              | \$915,300   | \$101,700               | \$0                        | \$101,700   | \$0       |
| 12  | Cast Iron Watermain Replacement Program Years 1-5  | New         | Dorchester Road                                      | 807                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$2,373,000 | \$0                  | \$2,373,000        | 90%              | \$2,135,700 | \$237,300               | \$0                        | \$237,300   | \$0       |
| 13  | Cast Iron Watermain Replacement Program Years 1-5  | New         | Drummond Road  | 461                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,356,000 | \$0                  | \$1,356,000        | 90%              | \$1,220,400 | \$135,600               | \$0                        | \$135,600   | \$0       |
| 14  | Cast Iron Watermain Replacement Program Years 1-5  | New         | George Street  | 147                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$749,000   | \$0                  | \$749,000          | 90%              | \$674,100   | \$74,900                | \$0                        | \$74,900    | \$0       |
| 15  | Cast Iron Watermain Replacement Program Years 1-5  | New         | Kister Road  | 53                 | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,557,000 | \$0                  | \$1,557,000        | 90%              | \$1,401,300 | \$155,700               | \$0                        | \$155,700   | \$0       |
| 16  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Arlington Avenue                                     | 303                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$890,000   | \$0                  | \$890,000          | 90%              | \$801,000   | \$89,000                | \$0                        | \$89,000    | \$0       |
| 17  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Fifth Avenue   | 187                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$551,000   | \$0                  | \$551,000          | 90%              | \$495,900   | \$55,100                | \$0                        | \$55,100    | \$0       |
| 18  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Fourth Avenue  | 186                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$548,000   | \$0                  | \$548,000          | 90%              | \$493,200   | \$54,800                | \$0                        | \$54,800    | \$0       |
| 19  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Franklin Avenue                                      | 88                 | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$259,000   | \$0                  | \$259,000          | 90%              | \$233,100   | \$25,900                | \$0                        | \$25,900    | \$0       |
| 20  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Gainsborough Avenue                                  | 303                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$891,000   | \$0                  | \$891,000          | 90%              | \$801,900   | \$89,100                | \$0                        | \$89,100    | \$0       |
| 21  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Gladstone Avenue                                     | 185                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$544,000   | \$0                  | \$544,000          | 90%              | \$489,600   | \$54,400                | \$0                        | \$54,400    | \$0       |
| 22  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Glendoe Street                                       | 256                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$753,000   | \$0                  | \$753,000          | 90%              | \$677,700   | \$75,300                | \$0                        | \$75,300    | \$0       |
| 23  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Glengary Street                                      | 256                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$753,000   | \$0                  | \$753,000          | 90%              | \$677,700   | \$75,300                | \$0                        | \$75,300    | \$0       |
| 24  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Grey Avenue  | 170                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$502,000   | \$0                  | \$502,000          | 90%              | \$451,800   | \$50,200                | \$0                        | \$50,200    | \$0       |
| 25  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Hawkins Street                                       | 430                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,267,000 | \$0                  | \$1,267,000        | 90%              | \$1,140,300 | \$126,700               | \$0                        | \$126,700   | \$0       |
| 26  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | High Street  | 113                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$333,000   | \$0                  | \$333,000          | 90%              | \$299,700   | \$33,300                | \$0                        | \$33,300    | \$0       |
| 27  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Houck Drive  | 153                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$450,000   | \$0                  | \$450,000          | 90%              | \$405,000   | \$45,000                | \$0                        | \$45,000    | \$0       |
| 28  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Jepson Street  | 432                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,271,000 | \$0                  | \$1,271,000        | 90%              | \$1,143,900 | \$127,100               | \$0                        | \$127,100   | \$0       |
| 29  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Main Street  | 503                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,478,000 | \$0                  | \$1,478,000        | 90%              | \$1,330,200 | \$147,800               | \$0                        | \$147,800   | \$0       |
| 30  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Marlborough Place                                    | 387                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,139,000 | \$0                  | \$1,139,000        | 90%              | \$1,025,100 | \$113,900               | \$0                        | \$113,900   | \$0       |
| 31  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Niagara River Parkway                                | 583                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,714,000 | \$0                  | \$1,714,000        | 90%              | \$1,542,600 | \$171,400               | \$0                        | \$171,400   | \$0       |
| 32  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Oxford Street  | 339                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$996,000   | \$0                  | \$996,000          | 90%              | \$896,400   | \$99,600                | \$0                        | \$99,600    | \$0       |
| 33  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Peer Street  | 713                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$2,096,000 | \$0                  | \$2,096,000        | 90%              | \$1,886,400 | \$209,600               | \$0                        | \$209,600   | \$0       |
| 34  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Portage Road   | 567                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,664,000 | \$0                  | \$1,664,000        | 90%              | \$1,497,600 | \$166,400               | \$0                        | \$166,400   | \$0       |
| 35  | Cast Iron Watermain Replacement Program Years 5 - 10   | New         | Queensway Gardens                                    | 167                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$491,000   | \$0                  | \$491,000          | 90%              | \$441,900   | \$49,100                | \$0                        | \$49,100    | \$0       |

## WATER SERVICES

| NO.                                | Outside Core Tourist Area   | Project No. | Limits  | Approx. Length (m) | Infrastructure | Type of Improvement | Timing      | Gross Cost   | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |              | Total DC Eligible Costs | DC Eligible                |              |           |
|------------------------------------|---|-------------|---|--------------------|----------------|---------------------|-------------|--------------|----------------------|--------------------|------------------|--------------|-------------------------|----------------------------|--------------|-----------|
|                                    |   |             |   |                    |                |                     |             |              |                      |                    | BTE %            | BTE \$       |                         | Available DC Reserve Funds | 2024-2033    | Post 2033 |
| 36                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Ramsey Road   | 550                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,935,000  | \$0                  | \$1,935,000        | 90%              | \$1,741,500  | \$193,500               | \$0                        | \$193,500    | \$0       |
| 37                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Rolling Acres Drive and Crescent                                | 337                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$988,000    | \$0                  | \$988,000          | 90%              | \$889,200    | \$98,800                | \$0                        | \$98,800     | \$0       |
| 38                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Sixth Avenue  | 252                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$742,000    | \$0                  | \$742,000          | 90%              | \$667,800    | \$74,200                | \$0                        | \$74,200     | \$0       |
| 39                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Slater Avenue   | 183                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$539,000    | \$0                  | \$539,000          | 90%              | \$485,100    | \$53,900                | \$0                        | \$53,900     | \$0       |
| 40                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Thorold Stone Road  | 565                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,658,000  | \$0                  | \$1,658,000        | 90%              | \$1,492,200  | \$165,800               | \$0                        | \$165,800    | \$0       |
| 41                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          |             | Tidwale Avenue  | 240                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$705,000    | \$0                  | \$705,000          | 90%              | \$634,500    | \$70,500                | \$0                        | \$70,500     | \$0       |
| 42                                 | Cast Iron Watermain Replacement Program Years 5 - 10                          | New         | Vine Street   | 412                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,211,000  | \$0                  | \$1,211,000        | 90%              | \$1,089,900  | \$121,100               | \$0                        | \$121,100    | \$0       |
| 43                                 | Garner West Expansion Lands Internal WM Loop - Cost Sharing Only              | New         | Beechwood Road to Garner Road (internal to the Expansion Lands) | 1050               | Watermain      | New Watermain       | 2029 - 2033 | \$750,000    | \$0                  | \$750,000          | 0%               | \$0          | \$750,000               | \$0                        | \$750,000    | \$0       |
| 44                                 | Grand Niagara Drive Watermain   |             | Brown Road to Grassy Brook Road                                 | 1150               | Watermain      | New Development     | 2029 - 2033 | \$1,495,000  | \$0                  | \$1,495,000        | 0%               | \$0          | \$1,495,000             | \$0                        | \$1,495,000  | \$0       |
| 45                                 | Kalar Road Watermain  | New         | Kalar Road - Mount Carmel to Mountain                           | 1200               | Watermain      | New Watermain       | 2029 - 2033 | \$1,600,000  | \$0                  | \$1,600,000        | 0%               | \$0          | \$1,600,000             | \$0                        | \$1,600,000  | \$0       |
| 46                                 | Lyon's Parkway (Easement) - Cost Sharing Only                                 |             | Lyon's Parkway East Limit - Ort Road                            | 180                | Watermain      | New Development     | 2024 - 2028 | \$180,000    | \$0                  | \$180,000          | 0%               | \$0          | \$180,000               | \$0                        | \$180,000    | \$0       |
| 47                                 | McLeod Road Watermain   | New         | McLeod Road - Matteo to Beechwood                               | 790                | Watermain      | New Watermain       | 2029 - 2033 | \$550,000    | \$0                  | \$550,000          | 0%               | \$0          | \$550,000               | \$0                        | \$550,000    | \$0       |
| 48                                 | Montrose Road Watermain Phase 1 - DC Debt to Be Issued                        |             | Reixinger Road to 100m south of Lyons Creek Road                | 700                | Watermain      | New Development     | 2024 - 2028 | \$650,000    | \$0                  | \$650,000          | 0%               | \$0          | \$650,000               | \$0                        | \$650,000    | \$0       |
| 49                                 | Montrose Road Watermain Phase 2   |             | 100m south of Lyons Creek Road to Carl Road                     | 950                | Watermain      | New Development     | 2024 - 2028 | \$1,235,000  | \$0                  | \$1,235,000        | 0%               | \$0          | \$1,235,000             | \$0                        | \$1,235,000  | \$0       |
| 50                                 | NW Expansion Lands internal WM Loop - Cost Sharing Only                       | New         | Kalar Road to Mountain Road (internal to the Expansion Lands)   | 1000               | Watermain      | New Watermain       | 2029 - 2033 | \$700,000    | \$0                  | \$700,000          | 0%               | \$0          | \$700,000               | \$0                        | \$700,000    | \$0       |
| 51                                 | Ort Road - Cost Sharing Only  |             | North Limit - Willick Road                                      | 255                | Watermain      | New Development     | 2024 - 2028 | \$255,000    | \$0                  | \$255,000          | 0%               | \$0          | \$255,000               | \$0                        | \$255,000    | \$0       |
| 52                                 | Portage Road (Norton Street - Macklem Street) Upsize 150mm dia. to 300mm dia. |             | Norton Street - Macklem Street                                  | 480                | Watermain      | New Development     | 2029 - 2033 | \$1,047,300  | \$0                  | \$1,047,300        | 70%              | \$733,110    | \$314,190               | \$0                        | \$314,190    | \$0       |
| 53                                 | Reixinger Road Extension/Street A - DC Debt to Be Issued                      |             | Montrose Road to West Limit                                     | 175                | Watermain      | New Development     | 2024 - 2028 | \$7,500,000  | \$0                  | \$7,500,000        | 0%               | \$0          | \$7,500,000             | \$0                        | \$7,500,000  | \$0       |
| 54                                 | South Chippawa Watermain Phase 1 (Cost Sharing)                               |             | Mann Street to 355m south of Mann street                        | 355                | Watermain      | New Development     | 2024 - 2028 | \$315,000    | \$0                  | \$315,000          | 0%               | \$0          | \$315,000               | \$0                        | \$315,000    | \$0       |
| 55                                 | South Chippawa Watermain Phase 2  |             | 355m south of Mann street to Willick Road                       | 200                | Watermain      | New Development     | 2024 - 2028 | \$355,000    | \$0                  | \$355,000          | 0%               | \$0          | \$355,000               | \$0                        | \$355,000    | \$0       |
| 56                                 | Thorold Stone Extension Watermain   |             | Fourth Avenue to Victoria Avenue                                | 215                | Watermain      | New Development     | 2024 - 2028 | \$579,500    | \$0                  | \$579,500          | 0%               | \$0          | \$579,500               | \$0                        | \$339,322    | \$240,178 |
| 57                                 | Thorold Stone Road (Portage Road - CNR) Upsize 150mm dia. to 300mm dia.       |             | Portage Road - CNR  | 555                | Watermain      | New Development     | 2029 - 2033 | \$682,500    | \$0                  | \$682,500          | 70%              | \$477,750    | \$204,750               | \$0                        | \$204,750    | \$0       |
| 58                                 | Master Servicing Plan and Wet Weather Management Study                        | MS63-22     |   |                    |                | Study               | 2024 - 2028 | \$300,000    | \$0                  | \$300,000          | 25%              | \$75,000     | \$225,000               | \$0                        | \$225,000    | \$0       |
| 59                                 | Master Servicing Plan and Wet Weather Management Study Update                 |             |   |                    |                | Study               | 2029 - 2033 | \$200,000    | \$0                  | \$200,000          | 25%              | \$50,000     | \$150,000               | \$0                        | \$150,000    | \$0       |
| 60                                 | Watermain Upgrade Program Years 1 - 5   | New         | Banting Avenue  | 354                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$965,000    | \$0                  | \$965,000          | 25%              | \$241,250    | \$723,750               | \$0                        | \$723,750    | \$0       |
| 61                                 | Watermain Upgrade Program Years 1 - 5   | New         | Beaverdams Road   | 537                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,782,000  | \$0                  | \$1,782,000        | 25%              | \$445,500    | \$1,336,500             | \$0                        | \$1,336,500  | \$0       |
| 62                                 | Watermain Upgrade Program Years 1 - 5   | New         | Bridge Street   | 864                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$2,341,000  | \$0                  | \$2,341,000        | 25%              | \$585,250    | \$1,755,750             | \$0                        | \$1,755,750  | \$0       |
| 63                                 | Watermain Upgrade Program Years 1 - 5   | New         | Erie Avenue   | 93                 | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$570,000    | \$0                  | \$570,000          | 25%              | \$142,500    | \$427,500               | \$0                        | \$427,500    | \$0       |
| 64                                 | Watermain Upgrade Program Years 5 - 10  | New         | Frederica Street  | 676                | Watermain      | Replacement/Upgrade | 2029 - 2033 | \$1,836,000  | \$0                  | \$1,836,000        | 50%              | \$918,000    | \$918,000               | \$0                        | \$918,000    | \$0       |
| 65                                 | Watermain Upgrade Program Years 5 - 10  | New         | Carlton Avenue  | 377                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,024,000  | \$0                  | \$1,024,000        | 25%              | \$256,000    | \$768,000               | \$0                        | \$768,000    | \$0       |
| 66                                 | Watermain Upgrade Program Years 5 - 10  | New         | Royal Manor Drive   | 1047               | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$3,394,000  | \$0                  | \$3,394,000        | 25%              | \$848,500    | \$2,545,500             | \$0                        | \$2,545,500  | \$0       |
| 67                                 | Water Avenue  |             |   | 359                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$1,058,000  | \$0                  | \$1,058,000        | 90%              | \$952,200    | \$105,800               | \$0                        | \$105,800    | \$0       |
| 68                                 | Willick Road (Sodrom Road - Ort Road)   |             | Sodrom Road – Ort Road  | 1000               | Watermain      | New Development     | 2024 - 2028 | \$1,935,800  | \$0                  | \$1,935,800        | 0%               | \$0          | \$1,935,800             | \$0                        | \$1,935,800  | \$0       |
| 69                                 | Willick Road (Sodrom Road - Willoughby Drive)                                 |             | Sodrom Road - Willoughby Drive                                  | 1000               | Watermain      | New Development     | 2024 - 2028 | \$1,935,800  | \$0                  | \$1,935,800        | 0%               | \$0          | \$1,935,800             | \$0                        | \$1,935,800  | \$0       |
| 70                                 | Wiltshire Boulevard   |             |   | 771                | Watermain      | Replacement/Upgrade | 2024 - 2028 | \$2,266,000  | \$0                  | \$2,266,000        | 90%              | \$2,039,400  | \$226,600               | \$0                        | \$226,600    | \$0       |
|                                    |   |             |   |                    |                |                     |             |              |                      |                    |                  |              |                         |                            |              |           |
| Subtotal Outside Core Tourist Area |   |             |   |                    |                |                     |             | \$86,336,900 | \$0                  | \$86,336,900       |                  | \$42,848,960 | \$43,487,940            | \$1,350,372                | \$41,524,379 | \$613,189 |

## APPENDIX C.3

TABLE 1

CITY OF NIAGARA FALLS  
DEVELOPMENT-RELATED CAPITAL PROGRAM  
WATER SERVICES

| NO.                        | Core Tourist Area  | Project No. | Limits                                 | Approx. Length (m) | Infrastructure | Type of Improvement          | Timing      | Gross Cost    | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |              | Total DC Eligible Costs | DC Eligible                |              |             |
|----------------------------|--|-------------|--|--------------------|----------------|------------------------------|-------------|---------------|----------------------|--------------------|------------------|--------------|-------------------------|----------------------------|--------------|-------------|
|                            |  |             |  |                    |                |                              |             |               |                      |                    | BTE %            | BTE \$       |                         | Available DC Reserve Funds | 2024-2033    | Post 2033   |
| 1                          | Cast Iron Watermain Replacement Program Years 1-5                            | New         | Allendale Avenue                       | 226                | Watermain      | Replacement/Upgrade          | 2024 - 2028 | \$664,000     | \$0                  | \$664,000          | 50%              | \$332,000    | \$332,000               | \$241,017                  | \$90,983     | \$0         |
| 2                          | Cast Iron Watermain Replacement Program Years 1-5                            | New         | Kitchener Street                       | 390                | Watermain      | Replacement/Upgrade          | 2024 - 2028 | \$1,147,000   | \$0                  | \$1,147,000        | 90%              | \$1,032,300  | \$114,700               | \$0                        | \$114,700    | \$0         |
| 3                          | Cast Iron Watermain Replacement Program Years 1-5                            | New         | MacDonald Avenue                       | 207                | Watermain      | Replacement/Upgrade          | 2024 - 2028 | \$611,000     | \$0                  | \$611,000          | 90%              | \$549,900    | \$61,100                | \$0                        | \$61,100     | \$0         |
| 4                          | Cast Iron Watermain Replacement Program Years 1-5                            | New         | McLeod Road                            | 338                | Watermain      | Replacement/Upgrade          | 2024 - 2028 | \$1,622,000   | \$0                  | \$1,622,000        | 90%              | \$1,459,800  | \$162,200               | \$0                        | \$94,975     | \$67,225    |
| 5                          | Cast Iron Watermain Replacement Program Years 1-5                            | New         | Robinson Street                        | 574                | Watermain      | Replacement/Upgrade          | 2024 - 2028 | \$2,032,000   | \$0                  | \$2,032,000        | 50%              | \$1,016,000  | \$1,016,000             | \$0                        | \$1,016,000  | \$0         |
| 6                          | Cast Iron Watermain Replacement Program Years 5 - 10                         | New         | Allendale Avenue                       | 308                | Watermain      | Replacement/Upgrade          | 2029 - 2033 | \$903,000     | \$0                  | \$903,000          | 50%              | \$451,500    | \$451,500               | \$0                        | \$451,500    | \$0         |
| 7                          | Cast Iron Watermain Replacement Program Years 5 - 10                         | New         | Kitchener Street                       | 269                | Watermain      | Replacement/Upgrade          | 2029 - 2033 | \$1,107,000   | \$0                  | \$1,107,000        | 90%              | \$996,300    | \$110,700               | \$0                        | \$110,700    | \$0         |
| 8                          | Lundy's Lane New Local Watermain   |             | Lundy's Lane - Highland to Royal Manor | 1220               | Watermain      | New Watermain                | 2024 - 2028 | \$3,288,000   | \$0                  | \$3,288,000        | 50%              | \$1,644,000  | \$1,644,000             | \$0                        | \$0          | \$1,644,000 |
| 9                          | Stanley Avenue (North Street - Ferry Street) Upsize 150mm dia. to 300mm dia. |             | North Street - Ferry Street            | 413                | Watermain      | Replacement with Enlargement | 2029 - 2033 | \$513,300     | \$0                  | \$513,300          | 70%              | \$359,310    | \$153,990               | \$0                        | \$153,990    | \$0         |
| 10                         | Stanley Avenue WM Ph1 (Marineland Pkwy to Dunn St)                           | W68-24      |  | 1150               |                |                              | 2024 - 2028 | \$2,750,000   | \$0                  | \$2,750,000        | 0%               | \$0          | \$2,750,000             | \$0                        | \$1,610,244  | \$1,139,756 |
| 11                         | Stanley Avenue WM Ph2 (Dunn St to Murray St)                                 | W72-24      |  | 485                |                |                              | 2024 - 2028 | \$1,160,000   | \$0                  | \$1,160,000        | 0%               | \$0          | \$1,160,000             | \$0                        | \$679,230    | \$480,770   |
| 12                         | Watermain Upgrade Program Years 1 - 5  |             | Clark Avenue                           | 333                | Watermain      | Watermain Upgrade            | 2024 - 2028 | \$982,000     | \$0                  | \$982,000          | 25%              | \$245,500    | \$736,500               | \$0                        | \$736,500    | \$0         |
| 13                         | Watermain Upgrade Program Years 1 - 5  |             | Robinson Street                        | 137                | Watermain      | Watermain Upgrade            | 2024 - 2028 | \$751,000     | \$0                  | \$751,000          | 50%              | \$375,500    | \$375,500               | \$0                        | \$375,500    | \$0         |
|                            |  |             |  |                    |                |                              |             |               |                      |                    |                  |              |                         |                            |              |             |
|                            |  |             |  |                    |                |                              |             |               |                      |                    |                  |              |                         |                            |              |             |
| Subtotal Core Tourist Area |  |             |  |                    |                |                              |             | \$17,530,300  | \$0                  | \$17,530,300       |                  | \$8,462,110  | \$9,068,190             | \$241,017                  | \$5,495,422  | \$3,331,751 |
| Total Watermain Projects   |  |             |  |                    |                |                              |             | \$103,867,200 | \$0                  | \$103,867,200      |                  | \$51,311,070 | \$52,556,130            | \$1,591,389                | \$47,019,801 | \$3,944,940 |

|  |             |
|--|-------------|
| Reserve Fund Balance as of December 31, 2023 | \$1,591,389 |
| Outside Core Tourist Area                    | \$1,350,372 |
| Core Tourist Area                            | \$241,017   |



**APPENDIX C.4**  
**TABLE 1**  
**CITY OF NIAGARA FALLS**  
**DEVELOPMENT-RELATED CAPITAL PROGRAM**  
**SANITARY SEWER SERVICES**

| NO.                                       | Outside Core Tourist Area  | Project No.        | Limits  | Approx. Length (m) | Infrastructure       | Type of Improvement      | Timing      | Gross Cost           | Grants and Subsidies | Net Municipal Cost   | Ineligible Costs |                     | Total DC Eligible Costs | DC Eligible           |                     |                     |
|---|--|--------------------|---|--------------------|----------------------|--------------------------|-------------|----------------------|----------------------|----------------------|------------------|---------------------|-------------------------|-----------------------|---------------------|---------------------|
|   |  |                    |   |                    |                      |                          |             |                      |                      |                      | BTE %            | BTE \$              |                         | Available DC Reserves | 2024-2033           | Post 2033           |
| 1   | Biggar Road (Montrose Road - Unopened Road Allowance (south side)) - Hospital                                      |                    | Montrose Road - Unopened Road Allowance (south side)  | 865                | Sanitary Sewer       | New Development          | 2024 - 2028 | \$3,500,000          | \$0                  | \$3,500,000          | 0%               | \$0                 | \$3,500,000             | \$258,748             | \$3,241,252         | \$0                 |
| 2   | Biggar Road Sanitary Trunk Phase 2   | NEW                | Unopened ROW west to Crowland Avenue  | 900                | Sanitary Sewer       | Development              | 2029 - 2033 | \$3,500,000          | \$0                  | \$3,500,000          | 0%               | \$0                 | \$3,500,000             | \$0                   | \$2,049,401         | \$1,450,599         |
| 3   | Beechwood Road Local Trunk Sewer   | New                | Lundy's Lane to McLeod Road   | 1900               | Sanitary Sewer       | Development              | 2029 - 2033 | \$3,800,000          | \$0                  | \$3,800,000          | 0%               | \$0                 | \$3,800,000             | \$0                   | \$3,800,000         | \$0                 |
| 4   | Corwin and Carlton Sewer Separations   | New                | Corwin - Erwin to Carlton, Carlton - Corwin to Dunn   | 525                | Sanitary Sewer       | Sewer Separation         | 2029 - 2033 | \$1,768,000          | \$0                  | \$1,768,000          | 10%              | \$176,800           | \$1,591,200             | \$0                   | \$1,591,200         | \$0                 |
| 5   | City-wide I&I Reduction Program  | New                |   | 142177             | Sanitary Sewer       | I&I Reduction Measures   | 2024 - 2033 | \$41,027,177         | \$0                  | \$41,027,177         | 10%              | \$4,102,718         | \$36,924,460            | \$0                   | \$21,620,863        | \$15,303,597        |
| 6   | Drop Connection to Regional Sanitary Tunnel @ Reixinger and Montrose   | New                | Montrose Road at Reixinger Road   | 1                  | Sanitary Sewer       | Development              | 2029 - 2033 | \$450,000            | \$0                  | \$450,000            | 0%               | \$0                 | \$450,000               | \$0                   | \$450,000           | \$0                 |
| 7   | Dorchester Road Sewer Upgrades   | New                | Dorchester Road - Mountain to Riall   | 812                | Sanitary Sewer       | Sewer Upgrade            | 2029 - 2033 | \$2,567,000          | \$0                  | \$2,567,000          | 10%              | \$256,700           | \$2,310,300             | \$0                   | \$2,310,300         | \$0                 |
| 8   | Frederica Street Sewer Diversion   | New                | Frederica Street - Prince Edward to Highland  | 347                | Sanitary Sewer       | Diversion Sewer          | 2029 - 2033 | \$897,000            | \$0                  | \$897,000            | 50%              | \$448,500           | \$448,500               | \$0                   | \$448,500           | \$0                 |
| 9   | Garner Road Sanitary Sewer - Cost Share Only   | New                | Angle Drive to Black Forest Crescent  | 1200               | Sanitary Sewer       | Development              | 2029 - 2033 | \$1,800,000          | \$0                  | \$1,800,000          | 0%               | \$0                 | \$1,800,000             | \$0                   | \$1,800,000         | \$0                 |
| 10  | Garner Road Sanitary Sewer - Cost share Only   | New                | Warren Woods Avenue to Brown Road   | 430                | Sanitary Sewer       | Development              | 2024 - 2028 | \$645,000            | \$0                  | \$645,000            | 0%               | \$0                 | \$645,000               | \$0                   | \$645,000           | \$0                 |
| 11  | Garner Pumping Stations - Principal Only   | 97-2010 (20 years) |   |                    |                      | Debenture                | 2024 - 2030 | \$4,190,743          | \$0                  | \$4,190,743          | 0%               | \$0                 | \$4,190,743             | \$0                   | \$4,190,743         | \$0                 |
| 12  | Kalar Road Sewer Upgrade   | New                | Kalar Road - Thorold Stone Road to Mount Carmel   | 2300               | Sanitary Sewer       | Sewer Upgrade            | 2029 - 2033 | \$14,000,000         | \$0                  | \$14,000,000         | 0%               | \$0                 | \$14,000,000            | \$0                   | \$14,000,000        | \$0                 |
| 13  | Lyon's Parkway (Easement)  |                    | Lyon's Parkway East Limit - Ort Road  | 180                | Sanitary Sewer       | New Development          | 2024 - 2028 | \$270,000            | \$0                  | \$270,000            | 0%               | \$0                 | \$270,000               | \$0                   | \$270,000           | \$0                 |
| 14  | Montrose Road Sanitary Sewer Phase 1 Debt to be issued   | New                | Reixinger Road to 110m south of Lyons Creek Road  | 790                | Sanitary Sewer       | Development              | 2024 - 2028 | \$3,500,000          | \$0                  | \$3,500,000          | 0%               | \$0                 | \$3,500,000             | \$0                   | \$3,500,000         | \$0                 |
| 15  | Montrose Road Sanitary Sewer Phase 2   | New                | 110m south of Lyons Creek Road to Carl Road   | 790                | Sanitary Sewer       | Development              | 2024 - 2028 | \$3,000,000          | \$0                  | \$3,000,000          | 0%               | \$0                 | \$3,000,000             | \$0                   | \$3,000,000         | \$0                 |
| 16  | North Sodom Road Sanitary Sewer Upsizing   | Improvement        | Sodom Road - Weinbrenner Road to Lyons Creek Road   | 400                | Sanitary Replacement | Existing and Development | 2024 - 2028 | \$2,500,000          | \$0                  | \$2,500,000          | 0%               | \$0                 | \$2,500,000             | \$0                   | \$2,500,000         | \$0                 |
| 17  | Ort Road   |                    | North Limit - Willick Road  | 255                | Sanitary Sewer       | New Development          | 2024 - 2028 | \$382,500            | \$0                  | \$382,500            | 0%               | \$0                 | \$382,500               | \$0                   | \$382,500           | \$0                 |
| 18  | Portage Road (Norton Street - Macklem Street)  |                    | Norton Street - Macklem Street  | 480                | Sanitary Sewer       | Rehabilitation           | 2029 - 2033 | \$814,500            | \$0                  | \$814,500            | 70%              | \$570,150           | \$244,350               | \$0                   | \$244,350           | \$0                 |
| 19  | Reixinger Road Extension (West)/Street A Debt to be issued   | New                | Montrose Road to West Limit   | 160                | Sanitary Sewer       | Development              | 2024 - 2028 | \$900,000            | \$0                  | \$900,000            | 0%               | \$0                 | \$900,000               | \$0                   | \$900,000           | \$0                 |
| 20  | South Niagara Falls Infiltration & Inflow Study to High Lift Sewage Pumping Station                                | SS72               |   |                    |                      | Study                    | 2024 - 2028 | \$130,823            | \$0                  | \$130,823            | 10%              | \$13,082            | \$117,740               | \$0                   | \$117,740           | \$0                 |
| 21  | South Niagara Falls Sanitary Sewer Servicing Study   | SS81-21            |   |                    |                      | Study                    | 2024 - 2028 | \$150,000            | \$0                  | \$150,000            | 0%               | \$0                 | \$150,000               | \$0                   | \$150,000           | \$0                 |
| 22  | South Sodom Road Sanitary Sewer (Weinbrenner Road to Mann Street) - Cost Sharing Only                              | New                | Sodom Road - Weinbrenner Road to Mann Street  | 310                | Sanitary Sewer       | Development              | 2024 - 2028 | \$400,000            | \$0                  | \$400,000            | 0%               | \$0                 | \$400,000               | \$0                   | \$400,000           | \$0                 |
| 23  | South Chippawa Sanitary Sewer (Mann Street Internal Chippawa East Development to Willick Road) - Cost Sharing Only | New                | Internal Development between Mann Street and Willick Road   | 900                | Sanitary Sewer       | Development              | 2024 - 2028 | \$300,000            | \$0                  | \$300,000            | 0%               | \$0                 | \$300,000               | \$0                   | \$300,000           | \$0                 |
| 24  | South Garner Hydro Corridor Sewer - Cost Sharing   | New                | Hydro Corridor - Garner Road to Beachwood Road  | 1000               | Sanitary Sewer       | Development              | 2029 - 2033 | \$1,500,000          | \$0                  | \$1,500,000          | 0%               | \$0                 | \$1,500,000             | \$0                   | \$878,315           | \$621,685           |
| 25  | Thorold Stone Road Extension   | New                | Fourth Avenue to Victoria Avenue  | 230                | Sanitary Sewer       | Development              | 2024 - 2028 | \$760,000            | \$0                  | \$760,000            | 0%               | \$0                 | \$760,000               | \$0                   | \$760,000           | \$0                 |
| 26  | Valley Way Area Sewer Separations  | New                | Valley Way between Victoria and Stanley   | 15649              | Sanitary Sewer       | Sewer Separation         | 2024 - 2033 | \$42,883,000         | \$0                  | \$42,883,000         | 90%              | \$38,594,700        | \$4,288,300             | \$0                   | \$2,510,985         | \$1,777,315         |
| 27  | Willick Road (Sodom Road - Ort Road)   |                    | Sodom Road - Ort Road   | 1000               | Sanitary Sewer       | New Development          | 2024 - 2028 | \$2,150,900          | \$0                  | \$2,150,900          | 0%               | \$0                 | \$2,150,900             | \$0                   | \$2,150,900         | \$0                 |
| 28  | Willick Road (Sodom Road - Willoughby Drive)   |                    | Sodom Road - Willoughby Drive   | 1000               | Sanitary Sewer       | New Development          | 2024 - 2028 | \$2,150,900          | \$0                  | \$2,150,900          | 0%               | \$0                 | \$2,150,900             | \$0                   | \$2,150,900         | \$0                 |
| 29  | Master Servicing Plan and Wet Weather Management Study   | MS63-22            |   |                    |                      | Study                    | 2024 - 2028 | \$300,000            | \$0                  | \$300,000            | 25%              | \$75,000            | \$225,000               | \$0                   | \$225,000           | \$0                 |
| 30  | Master Servicing Plan and Wet Weather Management Study Update  |                    |   |                    |                      | Study                    | 2029 - 2033 | \$200,000            | \$0                  | \$200,000            | 25%              | \$50,000            | \$150,000               | \$0                   | \$150,000           | \$0                 |
| 31  | Willoughby Drive Sewer Diversion   | New                | Willoughby Drive - Cattell to Weinbrenner   | 599                | Sanitary Sewer       | Diversion Sewer          | 2024 - 2028 | \$1,442,000          | \$0                  | \$1,442,000          | 0%               | \$0                 | \$1,442,000             | \$0                   | \$1,442,000         | \$0                 |
| 32  | Woodington, Woodgate, Woodfield Sewer Upgrades   | New                | Woodfield - Mountain to Woodington, Woodington - Woodfield to Woodgate, Woodgate - Woodington to Dorchester | 743                | Sanitary Sewer       | Sewer Upgrade            | 2029 - 2033 | \$1,890,000          | \$0                  | \$1,890,000          | 10%              | \$189,000           | \$1,701,000             | \$0                   | \$1,701,000         | \$0                 |
|   |  |                    |   |                    |                      |                          |             |                      |                      |                      |                  |                     |                         |                       |                     |                     |
|   |  |                    |   |                    |                      |                          |             |                      |                      |                      |                  |                     |                         |                       |                     |                     |
| <b>Subtotal Outside Core Tourist Area</b> |  |                    |   |                    |                      |                          |             | <b>\$143,769,543</b> | <b>\$0</b>           | <b>\$143,769,543</b> |                  | <b>\$44,476,650</b> | <b>\$99,292,893</b>     | <b>\$258,748</b>      | <b>\$79,880,948</b> | <b>\$19,153,196</b> |

APPENDIX C.4  
TABLE 1  
CITY OF NIAGARA FALLS  
DEVELOPMENT-RELATED CAPITAL PROGRAM  
SANITARY SEWER SERVICES

| NO.                           | Core Tourist Area   | Project No. | Limits                                | Approx. Length (m) | Infrastructure       | Type of Improvement          | Timing      | Gross Cost    | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |              | Total DC Eligible Costs | DC Eligible           |              |              |
|-------------------------------|---|-------------|---------------------------------------|--------------------|----------------------|------------------------------|-------------|---------------|----------------------|--------------------|------------------|--------------|-------------------------|-----------------------|--------------|--------------|
|                               |   |             |                                       |                    |                      |                              |             |               |                      |                    | BTE %            | BTE \$       |                         | Available DC Reserves | 2024-2033    | Post 2033    |
| 1                             | Allendale Avenue (Ferry Street - Robinson Street)                             |             | Ferry Street - Robinson Street        | 365                | Sanitary Replacement | Sewer Separation             | 2024 - 2028 | \$874,000     | \$0                  | \$874,000          | 50%              | \$437,000    | \$437,000               | \$0                   | \$437,000    | \$0          |
| 2                             | Alex Avenue Sewer Upgrade   | New         | Alex Avenue - McLeod to Frontenac     | 139                | Sanitary Sewer       | Sewer Upgrade                | 2024 - 2028 | \$336,000     | \$0                  | \$336,000          | 0%               | \$0          | \$336,000               | \$0                   | \$196,742    | \$139,258    |
| 3                             | Clark Avenue (Ferry Street - Robinson Street) Upsize 250mm dia. to 300mm dia. |             | Ferry Street - Robinson Street        | 350                | Sanitary Replacement | Replacement with Enlargement | 2024 - 2028 | \$355,500     | \$0                  | \$355,500          | 70%              | \$248,850    | \$106,650               | \$1,859               | \$104,791    | \$0          |
| 4                             | I&I Reduction Program   | New         |                                       | 142177             | Sanitary Sewer       | I&I Reduction Measures       | 2024 - 2033 | \$10,000,000  | \$0                  | \$10,000,000       | 10%              | \$1,000,000  | \$9,000,000             | \$0                   | \$5,269,888  | \$3,730,112  |
| 5                             | McLeod Road Sewer Upgrade   | New         | McLeod Road - Stanley to Drummond     | 1078               | Sanitary Sewer       | Sewer Upgrade                | 2024 - 2028 | \$5,114,000   | \$0                  | \$5,114,000        | 25%              | \$1,278,500  | \$3,835,500             | \$0                   | \$2,245,851  | \$1,589,649  |
| 6                             | Robinson Street (Stanley Avenue to East Limit)                                |             | Stanley Avenue - East Limit           | 438                | Sanitary Replacement | Development                  | 2024 - 2028 | \$1,048,800   | \$0                  | \$1,048,800        | 50%              | \$524,400    | \$524,400               | \$0                   | \$524,400    | \$0          |
| 7                             | Stanley Avenue Twin Sewer   | New         | Stanley Avenue - Livingston to McLeod | 639                | Sanitary Sewer       | Twin Sewer                   | 2024 - 2028 | \$1,666,000   | \$0                  | \$1,666,000        | 0%               | \$0          | \$1,666,000             | \$0                   | \$975,515    | \$690,485    |
|                               |   |             |                                       |                    |                      |                              |             |               |                      |                    |                  |              |                         |                       |              |              |
|                               |   |             |                                       |                    |                      |                              |             |               |                      |                    |                  |              |                         |                       |              |              |
| Subtotal Core Tourist Area    |   |             |                                       |                    |                      |                              |             | \$19,394,300  | \$0                  | \$19,394,300       |                  | \$3,488,750  | \$15,905,550            | \$1,859               | \$9,754,187  | \$6,149,504  |
| Total Sanitary Sewer Projects |   |             |                                       |                    |                      |                              |             | \$163,163,843 | \$0                  | \$163,163,843      |                  | \$47,965,400 | \$115,198,443           | \$260,608             | \$89,635,135 | \$25,302,700 |

|  |           |
|--|-----------|
| Reserve Fund Balance as of December 31, 2023 | \$260,608 |
| Outside Core Tourist Area                    | \$258,748 |
| Core Tourist Area                            | \$1,859   |

APPENDIX C.5

TABLE 1

CITY OF NIAGARA FALLS  
DEVELOPMENT-RELATED CAPITAL PROGRAM  
STORM WATER MANAGEMENT SERVICES

| NO.                                | Outside Core Tourist Area   | Limits                                 | Approx. Length (m) | Infrastructure        | Type of Improvement          | Timing      | Gross Cost    | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |              | Total DC Eligible Costs | DC Eligible                |             |           |
|------------------------------------|---|--|--------------------|-----------------------|------------------------------|-------------|---------------|----------------------|--------------------|------------------|--------------|-------------------------|----------------------------|-------------|-----------|
|                                    |   |  |                    |                       |                              |             |               |                      |                    | BTE %            | BTE \$       |                         | Available DC Reserve Funds | 2024-2033   | Post 2033 |
| 1                                  | Beaverdams SWM Facility - Land Purchase, Design & Construction    | N/A                                    | N/A                | Pond c/w Crossings    | SWMP                         | 2024 - 2028 | \$2,868,000   | \$0                  | \$2,868,000        | 80%              | \$2,289,517  | \$578,483               | \$578,483                  | \$0         | \$0       |
| 2                                  | Biggar Road Trunk Storm Sewer Phase 1 - DC DEBT TO BE ISSUED      | Montrose Road to Unopen Road Allowance | 850m               | New Storm Sewer       | Development                  | 2024 - 2028 | \$800,000     | \$0                  | \$800,000          | 0%               | \$0          | \$800,000               | \$800,000                  | \$0         | 0%        |
| 3                                  | Biggar Road Trunk Storm Sewer Phase 2                             | Unopened ROW west to Crowland Avenue   | 850m               | New Storm Sewer       | Development                  | 2029 - 2033 | \$800,000     | \$0                  | \$800,000          | 0%               | \$0          | \$800,000               | \$800,000                  | \$0         | 0%        |
| 4                                  | Corwin Crescent   | Erwin Avenue - OPG Canal               | 1000               | Trunk Sewer & Outfall | Sewer Separation             | 2029 - 2033 | \$10,754,300  | \$0                  | \$10,754,300       | 80%              | \$8,585,131  | \$2,169,169             | \$2,169,169                | \$0         | \$0       |
| 5                                  | Hodgson Subdivision Sewer Separation Strategy - DC Eligible Share | N/A                                    |                    |                       | Design                       | 2024 - 2028 | 169,865       | \$0                  | \$169,865          | 0%               | \$0          | \$169,865               | \$169,865                  | \$0         | \$0       |
| 6                                  | Montrose Road Phase 1 - DC DEBT TO BE ISSUED                      | Grassy Brook to Lyons Parkway          | 1500m              | New Storm Sewer       | Development                  | 2024 - 2028 | \$400,000     | \$0                  | \$400,000          | 0%               | \$0          | \$400,000               | \$400,000                  | \$0         | 0%        |
| 7                                  | Portage Road (Norton Street - Macklem Street) Upsize Storm Outlet | Norton Street - Macklem Street         | 480                | Storm Sewer           | Replacement with Enlargement | 2029 - 2033 | \$1,247,500   | \$0                  | \$1,247,500        | 80%              | \$995,876    | \$251,624               | \$251,624                  | \$0         | \$0       |
| 8                                  | Reixinger Road Extension - DC DEBT TO BE ISSUED                   | Montrose Road to West Limit            | 150m               | New Storm Sewer       | Development                  | 2024 - 2028 | \$125,000     | \$0                  | \$125,000          | 0%               | \$0          | \$125,000               | \$125,000                  | \$0         | 0%        |
| 9                                  | Thompson Creek Watershed Master Plan                              |  |                    |                       | Study                        | 2024 - 2028 | \$215,100     | \$0                  | \$215,100          | 0%               | \$0          | \$215,100               | \$215,100                  | \$0         | \$0       |
| 10                                 | Thorold Stone Road Ext Cost Sharing                               | Fourth Avenue to Victoria Avenue       | 700m               | New Storm Sewer       | Development                  | 2029 - 2033 | \$1,000,000   | \$0                  | \$1,000,000        | 0%               | \$0          | \$1,000,000             | \$45,819                   | \$954,181   | 0%        |
| 11                                 | Thompson Creek EA/Design  | McLeod South                           |                    |                       | EA Study                     | 2029 - 2033 | \$250,000     | \$0                  | \$250,000          | 0%               | \$0          | \$250,000               | \$0                        | \$250,000   | 0%        |
| 12                                 | Valley Way (Second Avenue to Drop Shaft/Tunnel @ Stanley Ave)     | N/A                                    | 920                | Trunk Sewer & Outfall | Sewer Separation             | 2024 - 2028 | \$3,584,800   | \$0                  | \$3,584,800        | 80%              | \$2,861,737  | \$723,063               | \$723,063                  | \$0         | \$0       |
| 13                                 | New OPG Outlets   | Misc.                                  |                    | Storm Outlets         | Development                  | 2029 - 2033 | \$430,200     | \$0                  | \$430,200          | 0%               | \$0          | \$430,200               | \$0                        | \$430,200   | \$0       |
| 14                                 | Master Servicing Plan and Wet Weather Management Study            |  |                    |                       | Study                        | 2024 - 2028 | \$300,000     | \$0                  | \$300,000          | 25%              | \$75,000     | \$225,000               | \$0                        | \$225,000   | \$0       |
| 15                                 | Master Servicing Plan and Wet Weather Management Study Update     |  |                    |                       | Study                        | 2029 - 2033 | \$200,000     | \$0                  | \$200,000          | 25%              | \$50,000     | \$150,000               | \$0                        | \$150,000   | \$0       |
| Subtotal Outside Core Tourist Area |   |  |                    |                       |                              |             | \$ 23,144,765 | \$0                  | \$23,144,765       |                  | \$14,857,261 | \$8,287,504             | \$6,278,123                | \$2,009,381 | \$0       |

| NO.                        | Core Tourist Area                                 | Limits                         | Approx. Length (m) | Infrastructure  | Type of Improvement | Timing      | Gross Cost  | Grants and Subsidies | Net Municipal Cost | Ineligible Costs |           | Total DC Eligible Costs | DC Eligible                |           |           |
|----------------------------|---|--------------------------------|--------------------|-----------------|---------------------|-------------|-------------|----------------------|--------------------|------------------|-----------|-------------------------|----------------------------|-----------|-----------|
|                            |   |                                |                    |                 |                     |             |             |                      |                    | BTE %            | BTE \$    |                         | Available DC Reserve Funds | 2024-2033 | Post 2033 |
| 1                          | Allendale Avenue (Ferry Street - Robinson Street) | Ferry Street - Robinson Street | 365                | New Storm Sewer | Sewer Separation    | 2024 - 2028 | \$1,178,400 | \$0                  | \$1,178,400        | 50%              | \$589,200 | \$589,200               | \$148,655                  | \$440,545 | \$0       |
| 2                          | Robinson Street (Stanley Avenue to East Limit)    | Stanley Avenue - East Limit    | 438                | New Storm Sewer | Sewer Separation    | 2024 - 2028 | \$560,500   | \$0                  | \$560,500          | 50%              | \$280,250 | \$280,250               |                            | \$280,250 | \$0       |
| Subtotal Core Tourist Area |   |                                |                    |                 |                     |             | \$1,738,900 | \$0                  | \$1,738,900        |                  | \$869,450 | \$869,450               | \$148,655                  | \$720,795 | \$0       |

|                                       |  |  |  |  |  |  |                 |     |              |  |              |             |             |             |     |
|---------------------------------------|--|--|--|--|--|--|-----------------|-----|--------------|--|--------------|-------------|-------------|-------------|-----|
| Total Storm Water Management Projects |  |  |  |  |  |  | \$24,883,665.08 | \$0 | \$24,883,665 |  | \$15,726,711 | \$9,156,954 | \$6,426,778 | \$2,730,176 | \$0 |
|---------------------------------------|--|--|--|--|--|--|-----------------|-----|--------------|--|--------------|-------------|-------------|-------------|-----|

|  |             |
|--|-------------|
| Reserve Fund Balance as of December 31, 2023 | \$6,426,778 |
| Outside Core Tourist Area                    | \$6,278,123 |
| Core Tourist Area                            | \$148,655   |