

Appendix F

Cost Estimates

Construction Cost Estimate – *Roundabout Option*

Construction Cost Estimate – *Conventional Intersection*

Comparison Summary - *Right of Way Requirements*
(Includes *Roundabout Option and Conventional Intersection*)



Construction Cost Estimate

Roundabout Option





Roundabout Option

Town of Morinville
 Functional Planning Study
 100 Avenue, 107 Street to Grandin Drive

Job # 7993
 Date: April 25, 2013

Construction Cost Estimate

| | Schedules | 107 St | 104 St | 102 St | 100 St | Grandin Dr W | Grandin Dr E | East Boundary Road | Total | |
|-------------------|---|------------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|
| Schedule A | Site Preparation | \$ 46,207.09 | \$ 19,652.70 | \$ 10,154.80 | \$ 125,430.30 | \$ 64,675.73 | \$ 73,943.36 | \$ 70,000.00 | \$ 410,063.98 | |
| Schedule B | Storm Sewer | \$ 48,298.89 | \$ 23,785.46 | \$ 37,570.92 | \$ 42,570.92 | \$ 5,000.00 | \$ 69,516.70 | \$ 50,000.00 | \$ 276,742.89 | |
| Schedule C | Roadworks | \$ 913,958.54 | \$ 308,732.16 | \$ 177,530.35 | \$ 1,199,970.20 | \$ 569,225.66 | \$ 351,178.35 | \$ 781,921.90 | \$ 4,302,517.16 | |
| | 20% Contingency and Miscellaneous | \$ 201,692.90 | \$ 70,434.06 | \$ 45,051.21 | \$ 273,594.28 | \$ 127,780.28 | \$ 98,927.68 | \$ 180,384.38 | \$ 997,864.81 | |
| Sub Totals | | \$ 1,210,157.42 | \$ 422,604.38 | \$ 270,307.28 | \$ 1,641,565.70 | \$ 766,681.67 | \$ 593,566.09 | \$ 1,082,306.28 | \$ 5,987,188.84 | |
| Schedule D | Overlay of Roundabouts | \$ 75,166.00 | \$ 67,112.50 | \$ 46,020.00 | \$ 95,491.50 | \$ 115,079.50 | \$ 117,469.00 | \$ 118,000.00 | \$ 634,338.50 | |
| Schedule D | Overlay of Entire Roadway including Roundabouts | \$ 311,225.00 | \$ - | \$ - | \$ 442,500.00 | \$ - | \$ 758,150.00 | \$ - | \$ 1,511,875.00 | |
| Sub Totals | | \$ 386,391.00 | \$ 67,112.50 | \$ 46,020.00 | \$ 537,991.50 | \$ 115,079.50 | \$ 875,619.00 | \$ 118,000.00 | \$ 2,146,213.50 | |
| | Street Lighting Upgrades | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| | 15% Engineering and Administration | \$ 239,482.26 | \$ 73,457.53 | \$ 47,449.09 | \$ 326,933.58 | \$ 132,264.18 | \$ 220,377.76 | \$ 180,045.94 | \$ 1,220,010.35 | |
| | Total Estimated Cost | \$ 1,836,030.69 | \$ 563,174.42 | \$ 363,776.38 | \$ 2,506,490.78 | \$ 1,014,025.34 | \$ 1,689,562.86 | \$ 1,380,352.22 | \$ 9,353,412.69 | |
| | <i>Estimated Construction Cost - Stages 1 and 2</i> | <i>\$5,269,472.27</i> | | | | | | | | |
| | <i>Estimated Construction Cost - Stage 3</i> | | | | | | | | <i>\$4,083,940.42</i> | |



Roundabout Option

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | Grandin Dr W Quantity | Grandin Dr W Amount | Grandin Dr E Quantity | Grandin Dr E Amount | E Boundary Rd Quantity | E Boundary Rd Amount |
|--------------|---|------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------------|------------------------|--------------------------|------------------------|---------------------------|-------------------------|
| A.1 | Excavation of material - Dispose off-site at contractor supplied site | m3 | \$30.00 | 305.00 | \$9,150.00 | 234.00 | \$7,020.00 | 125.00 | \$3,750.00 | 502.00 | \$15,060.00 | 558.00 | \$16,740.00 | 558.00 | \$16,740.00 | | |
| A.2 | Removal and disposal of existing concrete walk | m | \$22.37 | 837.00 | \$18,723.69 | 209.00 | \$4,675.33 | 120.00 | \$2,684.40 | 2,660.00 | \$59,504.20 | 270.00 | \$6,039.90 | 225.00 | \$5,033.25 | | |
| A.3 | Removal and disposal of existing curb, or curb & gutter | m | \$19.63 | 700.00 | \$13,741.00 | 139.00 | \$2,728.57 | 80.00 | \$1,570.40 | 1,370.00 | \$26,893.10 | 1,500.00 | \$29,445.00 | 150.00 | \$2,944.50 | | |
| A.4 | Removal and disposal of existing concrete slab on grade | m2 | \$55.13 | | | | | | | 340.00 | \$18,744.20 | 131.00 | \$7,222.03 | 297.00 | \$16,373.61 | | |
| A.5 | Pavement removal | m2cm | \$0.86 | 5,340.00 | \$4,592.40 | 6,080.00 | \$5,228.80 | 2,500.00 | \$2,150.00 | 6,080.00 | \$5,228.80 | 6,080.00 | \$5,228.80 | 38,200.00 | \$32,852.00 | | |
| Total | | | | | \$46,207.09 | | \$19,652.70 | | \$10,154.80 | | \$125,430.30 | | \$64,675.73 | | \$73,943.36 | | \$70,000.00 |

Notes: - Removals shown for 107 Street quantity include removal of all curb and gutter, and sidewalk from west of 107 Street to CN Rail crossing
 - Removals shown for 100 Street quantity include removal of all curb and gutter, and sidewalk from CN Rail crossing to 99 Street



Roundabout Option

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | Grandin Dr W Quantity | Grandin Dr W Amount | Grandin Dr E Quantity | Grandin Dr E Amount | E Boundary Rd Quantity | E Boundary Rd Amount |
|--------------|--|------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|------------------------|--------------------------|------------------------|---------------------------|-------------------------|
| B.1 | Excavate, remove & dispose of existing storm manhole, catchbasin manhole or catchbasin | ea | \$1,113.94 | 5.00 | \$5,569.70 | 2.00 | \$2,227.88 | 4.00 | \$4,455.76 | 4.00 | \$4,455.76 | | | 7.00 | \$7,797.58 | | |
| B.2 | Supply and install catch basin lead, including trenching, backfill (to 98% SPD), Class "B" bedding & connection (Sec VII-5A) | | | | | | | | | | | | | | | | |
| B.3 | 250mm diameter | m | \$486.47 | 20.00 | \$9,729.40 | 10.00 | \$4,864.70 | 20.00 | \$9,729.40 | 20.00 | \$9,729.40 | | | 35.00 | \$17,026.45 | | |
| B.4 | Supply and install 900mm catch basin (Sec VII-5A) | ea | \$4,420.54 | 4.00 | \$17,682.16 | 2.00 | \$8,841.08 | 4.00 | \$17,682.16 | 4.00 | \$17,682.16 | | | 6.00 | \$26,523.24 | | |
| B.5 | Supply and install 1200mm manhole or catchbasin manhole (Sec VII-5A) | v.m. | \$3,188.13 | 1.00 | \$3,188.13 | | | | | | | | | 1.00 | \$3,188.13 | | |
| B.6 | Supply and install manhole, catchbasin manhole and catchbasin frame & covers (Sec VII-5A) | | | | | | | | | | | | | | | | |
| B.7 | F36A catchbasin frame & cover | ea | \$1,328.44 | | | | | | | | | | | | | | |
| B.8 | F51 frame & cover | ea | \$1,425.90 | 5.00 | \$7,129.50 | 2.00 | \$2,851.80 | 4.00 | \$5,703.60 | 4.00 | \$5,703.60 | | | 7.00 | \$9,981.30 | | |
| B.11 | Remove and relocate hydrant | ea | \$5,000.00 | 1.00 | \$5,000.00 | 1.00 | \$5,000.00 | | | 1.00 | \$5,000.00 | 1.00 | \$5,000.00 | 1.00 | \$5,000.00 | | |
| Total | | | | | \$48,298.89 | | \$23,785.46 | | \$37,570.92 | | \$42,570.92 | | 5,000.00 | | \$69,516.70 | | \$50,000.00 |

Roundabout Option

Town of Morinville
 Functional Planning Study
 100 Avenue, 107 Street to Grandin Drive

Job # 7993
 Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | Grandin Dr W Quantity | Grandin Dr W Amount | Grandin Dr E Quantity | Grandin Dr E Amount | E Boundary Rd Quantity | E Boundary Rd Amount |
|--------------|---|------|------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|-----------------------|--------------------------|------------------------|--------------------------|------------------------|---------------------------|-------------------------|
| C.1 | Supply and place non-woven geotextile | m2 | \$7.53 | 400.00 | \$3,012.00 | 310.00 | \$2,334.30 | | | 905.00 | \$6,814.65 | 1,045.00 | \$7,868.85 | 641.00 | \$4,826.73 | 4,500.00 | \$33,885.00 |
| C.2 | Construct 300mm depth of 63mm crushed gravel base course (2 lifts) | m2 | \$37.09 | 400.00 | \$14,836.00 | 310.00 | \$11,497.90 | | | 905.00 | \$33,566.45 | 1,045.00 | \$38,759.05 | 641.00 | \$23,774.69 | 4,500.00 | \$166,905.00 |
| C.3 | Construct 125mm depth of asphaltic concrete surface course - ACO | m2 | \$44.23 | 338.00 | \$14,949.74 | 262.00 | \$11,588.26 | | | 425.00 | \$18,797.75 | 1,222.00 | \$54,049.06 | 541.00 | \$23,928.43 | 4,000.00 | \$176,920.00 |
| C.4 | Construct 150mm concrete road base | m2 | \$60.35 | 338.00 | \$20,398.30 | 262.00 | \$15,811.70 | | | 425.00 | \$25,648.75 | 1,222.00 | \$73,747.70 | 541.00 | \$32,649.35 | | |
| C.5 | Construct concrete truck apron, including granular levelling course | m2 | \$300.00 | 356.00 | \$106,800.00 | 275.00 | \$82,500.00 | 125.00 | \$37,500.00 | 349.00 | \$104,700.00 | 350.00 | \$105,000.00 | 389.00 | \$116,700.00 | 1,000.00 | \$300,000.00 |
| C.6 | Construct 150mm curb with 250mm gutter | m | \$133.00 | 1,285.00 | \$170,905.00 | 188.00 | \$25,004.00 | 86.00 | \$11,438.00 | 1,350.00 | \$179,550.00 | 191.00 | \$25,403.00 | 192.00 | \$25,536.00 | 200.00 | \$26,600.00 |
| C.7 | Construct concrete walk | m2 | \$92.00 | 3,680.00 | \$338,560.00 | 209.00 | \$19,228.00 | 120.00 | \$11,040.00 | 5,275.00 | \$485,300.00 | 270.00 | \$24,840.00 | 225.00 | \$20,700.00 | 305.00 | \$28,060.00 |
| C.8 | Construct 200mm high slab on grade islands | m2 | \$164.65 | 1,430.00 | \$235,449.50 | 800.00 | \$131,720.00 | 659.00 | \$108,504.35 | 2,044.00 | \$336,544.60 | 1,400.00 | \$230,510.00 | 571.00 | \$94,015.15 | 246.00 | \$40,503.90 |
| C.9 | Construct concrete pararamp | ea | \$1,131.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 | 8.00 | \$9,048.00 |
| Total | | | | | \$913,958.54 | | \$308,732.16 | | \$177,530.35 | | \$1,199,970.20 | | \$569,225.66 | | \$351,178.35 | | \$781,921.90 |

Notes: - Quantities shown for 107 Street include curb and gutter, sidewalk, and median for section from west of 107 Street to CN Rail Crossing

- Quantities shown for 100 Street include curb and gutter, sidewalk, and medians for section from CN Rail to 99 Street



Roundabout Option

Town of Morinville
 Functional Planning Study
 100 Avenue, 107 Street to Grandin Drive

Job # 7993
 Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | Grandin Dr W Quantity | Grandin Dr W Amount | Grandin Dr E Quantity | Grandin Dr E Amount | E Boundary Rd Quantity | E Boundary Rd Amount |
|------|---|----------------|------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|------------------------|---------------------------|-------------------------|
| D.1 | Construct 50mm depth of asphaltic concrete surface course - ACO Roundabouts | m ² | \$29.50 | 2,548.00 | \$75,166.00 | 2,275.00 | \$67,112.50 | 1,560.00 | \$46,020.00 | 3,237.00 | \$95,491.50 | 3,901.00 | \$115,079.50 | 3,982.00 | \$117,469.00 | 4,000.00 | \$118,000.00 |
| D.2 | Construct 50mm depth of asphaltic concrete surface course - Entire Roadway | m ² | \$29.50 | 10,550.00 | \$311,225.00 | | | | | 15,000.00 | \$442,500.00 | | | 25,700.00 | \$758,150.00 | | |

- Notes: -Asphalt overlay quantity for 107 Street includes entire roadway from west of 107 Street to CN Rail Crossing
 - Asphalt overlay quantity for 100 Street includes entire roadway from CN Rail to 99 Street
 - Asphalt overlay quantity for Grandin Drive east includes entire roadway from 99 Street to East Boundary Road

Construction Cost Estimate

Conventional Intersection





Conventional Intersection

Town of Morinville
 Functional Planning Study
 100 Avenue, 107 Street to Grandin Drive

Job # 7993
 Date: April 25, 2013

Construction Cost Estimate

| | Schedules | 107 St | 104 St | 102 St | 100 St | 97 St | Grandin Dr | Total |
|------------------------------------|-------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Schedule A | Site Preparation | \$ 50,744.69 | \$ 45,924.27 | \$ 33,456.14 | \$ 108,681.30 | \$ 44,952.85 | \$ 49,121.52 | \$ 332,880.77 |
| Schedule B | Storm Sewer | \$ 30,425.65 | \$ 26,130.38 | \$ 34,856.22 | \$ 39,720.92 | \$ 2,539.84 | \$ 57,197.52 | \$ 190,870.53 |
| Schedule C | Roadworks | \$ 910,674.78 | \$ 458,369.71 | \$ 374,127.53 | \$ 1,452,034.42 | \$ 555,723.45 | \$ 632,000.10 | \$ 4,382,929.99 |
| | Signalization of Intersection | \$ 300,000.00 | \$ 300,000.00 | \$ 300,000.00 | \$ 300,000.00 | \$ 300,000.00 | \$ 300,000.00 | \$ 300,000.00 |
| Sub Totals | | \$ 1,291,845.12 | \$ 830,424.36 | \$ 742,439.89 | \$ 1,900,436.64 | \$ 903,216.14 | \$ 1,038,319.14 | \$ 6,706,681.29 |
| 20% Contingency | | \$ 258,369.02 | \$ 166,084.87 | \$ 148,487.98 | \$ 380,087.33 | \$ 180,643.23 | \$ 207,663.83 | \$ 1,341,336.26 |
| Sub Totals | | \$ 1,550,214.14 | \$ 996,509.23 | \$ 890,927.87 | \$ 2,280,523.97 | \$ 1,083,859.37 | \$ 1,245,982.97 | \$ 8,048,017.55 |
| | Street Lighting Upgrades | | | | | | | \$ - |
| 15% Engineering and Administration | | \$ 232,532.12 | \$ 149,476.38 | \$ 133,639.18 | \$ 342,078.60 | \$ 162,578.91 | \$ 186,897.45 | \$ 1,207,202.63 |
| Total Estimated Cost | | \$ 1,782,746.27 | \$ 1,145,985.62 | \$ 1,024,567.05 | \$ 2,622,602.56 | \$ 1,246,438.27 | \$ 1,432,880.41 | \$ 9,255,220.18 |



Conventional Intersection

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | 97 St Quantity | 97 St Amount | Grandin Dr Quantity | Grandin Dr Amount |
|--------------|---|-------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------------------|--------------------|------------------------|----------------------|
| A.1 | Excavation of material - Dispose off-site at contractor supplied site | m ³ | \$30.00 | 380.00 | \$11,400.00 | 393.60 | \$11,808.00 | 295.60 | \$8,868.00 | 502.00 | \$15,060.00 | 386.40 | \$11,592.00 | 369.20 | \$11,076.00 |
| A.2 | Removal and disposal of existing concrete walk | m | \$22.37 | 837.00 | \$18,723.69 | 870.00 | \$19,461.90 | 552.00 | \$12,348.24 | 2,660.00 | \$59,504.20 | 700.00 | \$15,659.00 | 675.00 | \$15,099.75 |
| A.3 | Removal and disposal of existing curb, or curb & gutter | m | \$19.63 | 700.00 | \$13,741.00 | 499.00 | \$9,795.37 | 330.00 | \$6,477.90 | 1,370.00 | \$26,893.10 | 295.00 | \$5,790.85 | 779.00 | \$15,291.77 |
| A.4 | Removal and disposal of existing concrete slab on grade | m ² | \$55.13 | | | | | | | | | | | | |
| A.5 | Pavement removal | m ² cm | \$0.86 | 8,000.00 | \$6,880.00 | 5,650.00 | \$4,859.00 | 6,700.00 | \$5,762.00 | 8,400.00 | \$7,224.00 | 13,850.00 | \$11,911.00 | 8,900.00 | \$7,654.00 |
| Total | | | | | \$50,744.69 | | \$45,924.27 | | \$33,456.14 | | \$108,681.30 | | \$44,952.85 | | \$49,121.52 |



Conventional Intersection

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | 97 St Quantity | 97 St Amount | Grandin Dr Quantity | Grandin Dr Amount |
|--------------|--|------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-----------------|------------------------|----------------------|
| B.1 | Excavate, remove & dispose of existing storm manhole, catchbasin manhole or catchbasin | ea | \$1,113.94 | 4.00 | \$4,455.76 | 3.00 | \$3,341.82 | 5.00 | \$5,569.70 | 5.00 | \$5,569.70 | 1.00 | \$1,113.94 | 6.00 | \$6,683.64 |
| B.2 | Supply and install catch basin lead, including trenching, backfill (to 98% SPD), Class "B" bedding & connection (Sec VII-5A) | | | | | | | 4.00 | | | | | | | |
| B.3 | 250mm diameter | m | \$486.47 | 15.00 | \$7,297.05 | 10.00 | \$4,864.70 | 10.00 | \$4,864.70 | 20.00 | \$9,729.40 | | | 30.00 | \$14,594.10 |
| B.4 | Supply and install 900mm catch basin (Sec VII-5A) | ea | \$4,420.54 | 3.00 | \$13,261.62 | 2.00 | \$8,841.08 | 4.00 | \$17,682.16 | 4.00 | \$17,682.16 | | | 6.00 | \$26,523.24 |
| B.5 | Supply and install 1200mm manhole or catchbasin manhole (Sec VII-5A) | v.m. | \$3,188.13 | | | | | | | | | | | | |
| B.6 | Supply and install manhole, catchbasin manhole and catchbasin frame & covers (Sec VII-5A) | | | | | | | | | | | | | | |
| B.7 | F36A catchbasin frame & cover | ea | \$1,328.44 | 3.00 | \$3,985.32 | 2.00 | \$2,656.88 | 4.00 | \$5,313.76 | 4.00 | \$5,313.76 | | | 6.00 | \$7,970.64 |
| B.8 | F51 frame & cover | ea | \$1,425.90 | 1.00 | \$1,425.90 | 1.00 | \$1,425.90 | 1.00 | \$1,425.90 | 1.00 | \$1,425.90 | 1.00 | \$1,425.90 | 1.00 | \$1,425.90 |
| B.11 | Remove and relocate hydrant | ea | \$5,000.00 | | | 1.00 | \$5,000.00 | | | | | | | | |
| Total | | | | | \$30,425.65 | | \$26,130.38 | | \$34,856.22 | | \$39,720.92 | | 2,539.84 | | \$57,197.52 |

Conventional Intersection

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | 97 St Quantity | 97 St Amount | Grandin Dr Quantity | Grandin Dr Amount |
|--------------|---|----------------|------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|-----------------------|----------------|---------------------|---------------------|---------------------|
| C.1 | Supply and place non-woven geotextile | m ² | \$7.53 | 874.00 | \$6,581.22 | 663.00 | \$4,992.39 | 739.00 | \$5,564.67 | 736.00 | \$5,542.08 | 910.00 | \$6,852.30 | 1,130.00 | \$8,508.90 |
| C.2 | Construct 300mm depth of 63mm crushed gravel base course (2 lifts) | m ² | \$37.09 | 874.00 | \$32,416.66 | 663.00 | \$24,590.67 | 739.00 | \$27,409.51 | 736.00 | \$27,298.24 | 910.00 | \$33,751.90 | 1,130.00 | \$41,911.70 |
| C.3 | Construct 50mm depth of asphaltic concrete surface course - ACO | m ² | \$29.50 | 5,120.00 | \$151,040.00 | 5,997.00 | \$176,911.50 | 4,482.00 | \$132,219.00 | 9,001.00 | \$265,529.50 | 6,495.00 | \$191,602.50 | 15,605.00 | \$460,347.50 |
| C.4 | Construct 125mm depth of asphaltic concrete surface course - ACB | m ² | \$44.25 | 874.00 | \$38,674.50 | 641.00 | \$28,364.25 | 665.00 | \$29,426.25 | 736.00 | \$32,568.00 | 771.00 | \$34,116.75 | 1,128.00 | \$49,914.00 |
| C.5 | Construct concrete truck apron, including granular levelling course | m ² | \$300.00 | | | | | | | | | | | | |
| C.6 | Construct 150mm curb with 250mm gutter | m | \$133.00 | 1,472.00 | \$195,776.00 | 248.00 | \$32,984.00 | 248.00 | \$32,984.00 | 2,216.00 | \$294,728.00 | 222.00 | \$29,526.00 | 248.00 | \$32,984.00 |
| C.7 | Construct concrete walk | m ² | \$92.00 | 3,680.00 | \$338,560.00 | 520.00 | \$47,840.00 | 552.00 | \$50,784.00 | 5,275.00 | \$485,300.00 | 270.00 | \$24,840.00 | 367.50 | \$33,810.00 |
| C.8 | Construct 200mm high slab on grade islands | m ² | \$164.65 | 876.00 | \$144,233.40 | 846.00 | \$139,293.90 | 554.00 | \$91,216.10 | 2,044.00 | \$336,544.60 | 1,400.00 | \$230,510.00 | | |
| C.9 | Construct concrete pararamp | ea | \$1,131.00 | 3.00 | \$3,393.00 | 3.00 | \$3,393.00 | 4.00 | \$4,524.00 | 4.00 | \$4,524.00 | 4.00 | \$4,524.00 | 4.00 | 4,524.00 |
| Total | | | | | \$910,674.78 | | \$458,369.71 | | \$374,127.53 | | \$1,452,034.42 | | \$555,723.45 | | \$632,000.10 |



Conventional Intersection

Town of Morinville
Functional Planning Study
100 Avenue, 107 Street to Grandin Drive

Job # 7993
Date: April 25, 2013

Construction Cost Estimate

| Item | Description | Unit | Unit Price | 107 St Quantity | 107 St Amount | 104 St Quantity | 104 St Amount | 102 St Quantity | 102 St Amount | 100 St Quantity | 100 St Amount | 97 St Quantity | 97 St Amount | Grandin Dr Quantity | Grandin Dr Amount |
|------|--|----------------|------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------|------------------------|----------------------|
| D.1 | Construct 50mm depth of asphaltic concrete surface course - ACO | m ² | \$29.50 | | | | | | | | | | | | |
| D.2 | Construct 50mm depth of asphaltic concrete surface course - Entire Roadway including Roundabouts | m ² | \$29.50 | | | | | | | | | | | | |

Comparison Summary

*Right of Way Requirements
(Includes Roundabout Option and Conventional Intersection)*





Right of Way Requirements - Comparison Summary

Project: Highway 642 (100 Avenue) Functional Planning Study (Morinville)

Job Number: 7993

Roundabouts

Date: February 11, 2013

| | Area | | | Buildings | |
|--------------------|------------------|--------------|--------------|---------------------|-------------------------|
| | m2 | acres | sq ft | | m2 |
| 107 St SW-SE-NE-NW | 272.5 | 0.067 | 2933 | Hwy 2 to 107 St | 547.7590 |
| | 90.0 | 0.022 | 969 | 107 St to 104 St | 58.6226 |
| | 137.0 | 0.034 | 1475 | | 379.8284 |
| | 193.0 | 0.048 | 2077 | | 261.9149 |
| 104 St | 176.0 | 0.043 | 1894 | 101A St to 100 St | 333.8784 [1] |
| | 80.0 | 0.020 | 861 | | 141.7682 [1] |
| | 136.5 | 0.034 | 1469 | 100 St to 99 St | 937.3499 |
| | 108.0 | 0.027 | 1163 | at Grandin Drive WJ | 124.1700 [3] |
| 102 St | 0.0 | 0.000 | 0 | | |
| 100 St | 329.9 | 0.082 | 3551 [1] | | |
| | 204.0 | 0.050 | 2196 | | |
| | 303.1 | 0.075 | 3263 | | |
| | 217.5 | 0.054 | 2341 [1] | | |
| Grandin Drive WJ | 63.9 | 0.016 | 688 | | |
| | 95.7 | 0.024 | 1030 | | |
| | 10.5 | 0.003 | 113 | | |
| | 942.1 | 0.233 | 10141 [1] | | |
| Grandin Drive EJ | 36.3 | 0.009 | 390 | | |
| | 54.6 | 0.013 | 587 | | |
| | 224.6 | 0.055 | 2417 | | |
| | 149.3 | 0.037 | 1607 | | |
| East Boundary Road | 0.0 | 0.000 | 0 | | |
| | 2022.4 | 0.500 | 21769 | | |
| | 1868.0 | 0.462 | 20107 | | |
| | 145.4 | 0.036 | 1565 | | |
| Total | 7860.1269 | 1.942 | 84606 | Total | m2 2785.2914 |
| | | | | | sq ft 29980.5981 |

Assuming \$11/sq ft for land \$ 930,661.82

Assuming \$200/sq ft \$ 5,996,119.62

[1] much of this land may be available through redevelopment applications

[3] house



Right of Way Requirements - Comparison Summary

Project: Highway 642 (100 Avenue) Functional Planning Study (Morinville)
Conventional Intersection

Job Number: 7993
Date: February 11, 2013

| Area (Land) | | | | Buildings | |
|--------------------|------------------|------------------|------------------|-------------------|-------------------------|
| | m2 | acres | sq ft | | m2 |
| Hwy 2 to 107 St | 309.0542 | 0.076 | 3327 | 107 St to 104 St | 63.1106 |
| | 346.8054 | 0.086 | 3733 | 104 St to 103 St | 189.6537 |
| | 123.2443 | 0.030 | 1327 | 103 St to 102 St | 373.8222 |
| 107 St to 104 St | 761.5262 | 0.188 | 8197 | | 328.9166 |
| east of 104 St | 83.4743 | 0.021 | 899 | | 255.1104 |
| west of 103 St | 130.5117 | 0.032 | 1405 | | 181.8269 |
| east of 103 St | 122.2449 | 0.030 | 1316 | 102 St to 101 St | 463.4334 |
| west of 102 St | 122.2454 | 0.030 | 1316 | | 923.8252 |
| 102 St to 101 St | 363.0632 | 0.090 | 3908 | | 155.6727 |
| 101 St to 101A St | 197.0765 | 0.049 | 2121 | | 138.4864 |
| 101A St to 100 St | 206.0734 | 0.051 | 2218 | | 289.1383 |
| East Boundary Road | 2257.7098 | 0.558 | 24302 | 101 St to 100A St | 377.7243 |
| | 1797.2097 | 0.444 | 19345 | | 403.6864 |
| | 2579.64 | 0.637 | 27767 | | 378.5535 |
| | 372.5109 | 0.092 | 4010 | | 54.1986 |
| | | | | | 207.0701 |
| | | | | 101A St to 100 St | 565.0975 |
| | | | | | 325.4286 |
| | | | | 100 St to 99 St | |
| Total | 9772.3899 | 2.4148064 | 105189.03 | Total | m2 5674.7554 |
| | | | | | sq ft 61082.4997 |

Assuming \$11/sq ft for land \$ 1,157,079.30

Assuming \$200/sq ft \$ 12,216,499.93



Right of Way Requirements - Comparison Summary

Project: Highway 642 (100 Avenue) Functional Planning Study (Morinville)

Job Number: 7993

ROW Requirements and Cost

Date: February 11, 2013

| Conventional Intersections | | |
|----------------------------|-------------|-------------------------|
| Right of Way | 2.41 acres | \$ 1,157,000.00 |
| Buildings | 61100 sq ft | \$ 12,220,000.00 |
| Total | | \$ 13,377,000.00 |

| Roundabouts | | |
|--------------|-------------|------------------------|
| Right of Way | 1.94 acres | \$ 930,661.82 |
| Buildings | 30000 sq ft | \$ 6,000,000.00 |
| Total | | \$ 6,930,661.82 |

Assuming \$11/sq ft for land

Assuming \$200/sq ft for buildings

