

# DERIVATION OF COST PROPOSAL

|                                    |   |
|------------------------------------|---|
| CONTROL SECTION(S) - JOB NUMBER(S) | PROJECT DESCRIPTION                                       |
| <b>NA</b>                          | <b>Ann Arbor Station Preliminary Engineering Services</b> |
| SUBCONSULTANT NAME                 |   |
| <b>SmithGroupJJR 9.22.16</b>       |   |

## DIRECT LABOR:

| CLASSIFICATION             | Hours              | x | Hourly Rate | = | Labor Cost          |
|----------------------------|--------------------|---|-------------|---|---------------------|
| Sr. Landscape Architect I  | 220                |   | \$ 46.76    |   | \$ 10,287.20        |
| Sr. Landscape Architect II | 340                |   | \$ 38.90    |   | \$ 13,226.00        |
| Landscape Architect I      | 510                |   | \$ 22.03    |   | \$ 11,235.30        |
| Landscape Architect II     | 0                  |   | \$ -        |   | \$ -                |
| Sr. Civil Engineer I       | 240                |   | \$ 76.50    |   | \$ 18,360.00        |
| Civil Engineer I           | 510                |   | \$ 31.07    |   | \$ 15,845.70        |
| Environmental              | 80                 |   | \$ 32.77    |   | \$ 2,621.60         |
| Survey I                   | 184                |   | \$ 44.90    |   | \$ 8,261.60         |
| Survey II                  | 224                |   | \$ 31.70    |   | \$ 7,100.80         |
| CAD/Technical              | 200                |   | \$ 31.07    |   | \$ 6,214.00         |
| Clerical                   | 120                |   | \$ 21.97    |   | \$ 2,636.40         |
|                            | <b>Total Hours</b> |   |             |   | <b>Total Labor</b>  |
|                            |                    |   |             |   | <b>\$ 95,788.60</b> |

## OVERHEAD

|               |                |                             |                      |                |                      |
|---------------|----------------|-----------------------------|----------------------|----------------|----------------------|
| OVERHEAD Rate | <u>170.41%</u> | Total Labor x Overhead Rate | <b>\$ 163,233.35</b> | Total Overhead | <b>\$ 163,233.35</b> |
|---------------|----------------|-----------------------------|----------------------|----------------|----------------------|

## FACILITIES CAPITAL COST OF MONEY:

|               |              |                             |             |                |             |
|---------------|--------------|-----------------------------|-------------|----------------|-------------|
| F.C.C.M. Rate | <u>0.00%</u> | Total Labor x F.C.C.M. Rate | <b>\$ -</b> | Total F.C.C.M. | <b>\$ -</b> |
|---------------|--------------|-----------------------------|-------------|----------------|-------------|

## DIRECT EXPENSES: List by item at Actual Cost - NO MARKUP

| TYPE OF EXPENSE                           | Unit     | Quantity | x | Rate        | =                   | Direct Cost         |
|---|----------|----------|---|-------------|---------------------|---------------------|
| Milage                                    | mile     | 200      |   | \$ 0.50     |                     | \$ 100.00           |
| Printing (plots)                          | 24x36    | 200      |   | \$ 15.00    |                     | \$ 3,000.00         |
| Printing (handouts)                       | 81/2x11  | 400      |   | \$ 1.00     |                     | \$ 400.00           |
| Survey Research                           | lump sum | 1        |   | \$ 300.00   |                     | \$ 300.00           |
| Rail Coordination (flagman)               | days     | 20       |   | \$ 1,000.00 |                     | \$ 20,000.00        |
| Misc (room charges, ads, supplies, meals) | lump sum | 1        |   | \$ 2,000.00 |                     | \$ 2,000.00         |
|   |          | 0        |   | \$ -        |                     | \$ -                |
|   |          |          |   |             | <b>Total Direct</b> | <b>\$ 25,800.00</b> |

## SUBCONSULTANT COSTS:

|                            |             |
|----------------------------|-------------|
|                            | \$ -        |
|                            | \$ -        |
| <b>Total Subconsultant</b> | <b>\$ -</b> |

## FIXED FEE FOR PROFIT:

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(Total Labor + Total Overhead) x 11% = Total Fixed Fee \$ 28,492.41

**TOTAL COSTS** \$ 313,314.37