#### FEE ESTIMATE WORKSHEET

LHB Labor Summary

Project Name

Skyline Parkway Retaining Wall Restorations SP 118-060-012 City of Duluth JDL

Client Preparer



#### **Construction Services**

|  |                         | P1<br>Project  | P5<br>Sr Project       | P8<br>Project            | P11<br>Eng.       | P13                                     | T3<br>Sr. Tech | T8                 | A1<br>Admin       | Total<br>Labor |
|--|-------------------------|----------------|------------------------|--------------------------|-------------------|---|----------------|--------------------|-------------------|----------------|
| Project Breakdown - Tas                      | k Description           | Manager        | Eng.                   | Eng.                     | XI                | Eng.<br>XIII                            | Designer       | Intermed. Designer | Admin.<br>Assist. | Costs          |
|  |                         | \$158          | \$140                  | \$105                    | \$95              | \$80                                    | \$93           | \$70               | \$65              | (\$)           |
| Task 1 - Project Management                  |                         | Ψ100           | ψ1-10                  | Ψ100                     | Ψοσ               | Ψ00                                     | Ψ30            | Ψίσ                | ΨΟΟ               | (Ψ)            |
| Communication/ Correspondence                |                         | 6.00           |                        |                          |                   |   | 12.00          | TAKE AND TO        |                   | \$2,064        |
| Subconsultant Coordination                   | SERVICE STREET          | 3.00           |                        |                          |                   | 1000                                    |                |                    | Tell 19 (6)       | \$474          |
| BUDGER OF STREET                             |                         |                |                        | No Period                | 2.70.0234         |   |                | Je Listano         |                   |                |
| Task 2 - Preconstruction Meeting             |                         |                | 22.5                   | W. C. S. F.              |                   | 12 6 7 6 3 4                            |                |                    |                   |                |
| Meeting Agenda, Meeting and Min              | nutes                   | 3.00           |                        |                          |                   |   | 6.00           |                    |                   | \$1,032        |
| <b>新华华</b>                                   |                         | F SARSE N      | Test of the Assistance |                          |                   | 4403.50                                 | 1781           |                    |                   | ,              |
| Task 3 - Construction Meetings a             | nd Minutes              |                |                        | mice and a single        | Constant          |   |                |                    |                   |                |
| Estimate 20 Meetings                         |                         | 20.00          |                        |                          |                   | Charles and                             | 20.00          |                    |                   | \$5,020        |
|  |                         |                |                        |                          |                   |   |                |                    |                   |                |
| Гаsk 4 - Shop Drawing/ Submittal             | Review                  |                |                        | Programme and the second |                   |   |                |                    |                   |                |
| Drainage Structures                          |                         |                |                        |                          |                   |   | 2.00           |                    |                   | \$186          |
| Historical/ Masonry Submittals               |                         | 6.00           |                        |                          |                   |   | 12.00          | St. Service        |                   | \$2,064        |
|  |                         |                |                        | 100                      |                   | W. M. Co.                               |                | -480,607           |                   |                |
| Task 5- Survey/ Staking                      |                         |                |                        |                          | TOPUL TIE         |   |                |                    |                   |                |
| Verify Control                               |                         |                |                        |                          |                   | CAL PROPERTY.                           | 4.00           | ALC: NO.           |                   | \$372          |
| Oneota- Storm Struct's, Agg Base             | & Paving                |                |                        |                          |                   |   | 12.00          | 4.00               |                   | \$1,396        |
| Sect 3- Agg Base and Paving                  | <b>美国工作的</b>            |                |                        |                          |                   |   | 16.00          | 6.00               |                   | \$1,908        |
|  |                         |                |                        | is is also               |                   |   |                |                    |                   |                |
| Task 6 - On Site Observations                |                         |                |                        |                          |                   |   |                |                    |                   |                |
| Est. 24 Wks at 24hrs/ Wk average             |                         | 84.00          |                        |                          |                   |   | 576.00         |                    |                   | \$66,840       |
|  |                         |                | Page 1                 |                          |                   | No. 12 Page                             |                | 10 M               |                   |                |
| Task 7 - Administrative                      |                         | ALTERNATION OF |                        |                          |                   |   |                |                    |                   |                |
| Daily/ Weekly Diary                          | Market Control of Brook |                |                        | recess?                  |                   | 100000000000000000000000000000000000000 | 24.00          |                    |                   | \$2,232        |
| IRA Tracking/ Recordkeeping                  |                         |                |                        |                          |                   |   | 30.00          |                    |                   | \$2,790        |
| Change Order/ Supplemental Agre              | eements                 | 3.00           |                        |                          |                   |   | 8.00           |                    |                   | \$1,218        |
| Pay Estimates                                |                         | 3.00           |                        |                          |                   |   | 8.00           | 1000               |                   | \$1,218        |
| Tools 0. Decises Observed                    |                         |                | No.                    |                          |                   |   |                |                    |                   |                |
| Task 8 - Project Closeout                    |                         | 4.00           |                        |                          |                   |   | 0.00           |                    |                   |                |
| Final Inspection and Punchlist               |                         | 4.00           |                        |                          |                   |   | 8.00           |                    |                   | \$1,376        |
| Record Drawings                              |                         | 1.00<br>2.00   |                        |                          |                   |   | 14.00          |                    |                   | \$1,460        |
| Prepare and Assemble Final Reco              | ords                    | 2.00           |                        |                          | Back State of the |   | 24.00          |                    |                   | \$2,548        |
|  |                         |                |                        |                          |                   |   |                |                    |                   |                |
|  |                         |                |                        |                          |                   |   |                |                    |                   |                |
|  |                         |                |                        |                          |                   |   |                |                    |                   |                |
|  | er lage in the second   |                |                        |                          |                   |   |                |                    |                   |                |
|  | Zi wasan in manana      |                |                        |                          |                   |   |                |                    | Ayan make         |                |
|  |                         |                |                        |                          |                   |   |                |                    |                   |                |
| Т  | otal Hours              | 135            | 0                      | 0                        | 0                 | 0                                       | 776            | 10                 | 0                 |                |
| Fravel                                       | Miles Est.              | # Trips        | Rate                   | Cost                     | Direct Cos        |   | Cost           | Labor              |                   | \$94,198       |
| Mileage other than insp Vehicle              | 800                     | po             | 0.535                  |                          | Survey Eq         |   |                | Travel Cos         | ts                | \$3,428        |
| Inspection Vehicle @ \$750/ month (60% time) |                         |                | 3,000                  |                          | Testing (B        |   |                | Direct Cost        |                   | \$10,057       |
|  | NEW TOTAL CONTRACTOR    |                | Numer 1988             | \$3,000                  | , county (D       |   | \$0,007        | 555( 553)          |                   | \$ 10,007      |
| Tot  | al Travel Costs         |                |                        | \$3,428                  | Total Direc       | t                                       | \$10,057       |                    |                   |                |
|  |                         |                |                        | + -,                     | J                 |   | + .0,001       | R.                 |                   |                |



## **Project Proposal**

## QTB056813

West Skyline Parkway Retaing Wall Restoration SP 118-060-012

Client:

LHB, Inc. Joseph D. Litman 21 West Superior St., Suite 500 Duluth, MN 55802 Work Site Address:

West Skyline Parkway Duluth, MN Service Description:

Construction Materials Testing Section 3 Turnout

|              | Description   |                                | Quantity                       | Units              | Unit Price        | Extension  |
|--------------|---|--------------------------------|--------------------------------|--------------------|-------------------|--|
| ase 1        | MnDOT Testing   |                                |                                |                    |                   |  |
| Activity 1.1 | Soil Testing  | PORTER AND THE PROPERTY OF THE | RESCRIPTION OF THE PROPERTY OF | 19101W/F=3610190   |                   | \$930.00   |
| 217          | Compaction Testing - Sandcone & DCP's                     |                                | 1.50                           | Hour               | 76.00             | \$114.0  |
|              | Work Activity Detail                                      | Qty Units                      | Hi                             | rs/Unit            | Extension         |  |
|              | Aggregate Base  | 1.00 Trips                     |                                | 1.50               | 1.50              |  |
| 209          | Sample pick-up  |                                |                                | Hour               | 76.00             | \$304.0  |
| 1162         | Sieve analysis & 200 wash (ASTM C 136 & C 117) per        | sample                         | 3.00                           | Each               | 130.00            | \$390.0  |
| 1688         | Percent crushed (ASTM D5821), per sample                  |                                | 1.00                           | Each               | 82.00             | \$82.0   |
| 1861         | CMT Trip Charge   |                                | 4.00                           | Each               | 10.00             | \$40.0   |
| Activity 1.2 | Concrete Testing  |                                |                                |                    |                   | \$1,475.0  |
| 261          | Concrete Testing  |                                | 6.00                           | Hour               | 76.00             | \$456.0  |
|              | Work Activity Detail Qty Units                            |                                | Hi                             | Hrs/Unit Extension |                   |  |
|              | Walls   | 3.00 Trips                     |                                | 2.00               | 6.00              | 710 Control of Control |
| 1364         | Compressive strength of concrete cylinders (ASTM specimen | C 39), per                     | 9.00                           | Each               | 25.00             | \$225.0  |
|              | Work Activity Detail Qty Units                            |                                | Hi                             | rs/Unit            | Extension         |  |
|              | Walls   | 3.00 Set                       |                                | 3.00               | 9.00              |  |
| 278          | Concrete Cylinder Pick up                                 |                                | 1.50                           | Hour               | 76.00             | \$114.0  |
| 1861         | CMT Trip Charge   |                                | 6.00                           | Each               | 10.00             | \$60.0   |
| 215          | Concrete Ready Mix Plant Monitoring                       |                                | 4.00                           | Hour               | 90.00             | \$360.0  |
|              | Work Activity Detail Qty Units                            |                                | Hi                             | Hrs/Unit Extension |                   |  |
|              | Walls   | 1.00 Trips                     | 0.00                           | 4.00               | 4.00              | 4000.0   |
| 1162         | Sieve analysis & 200 wash (ASTM C 136 & C 117) per        | sample                         | 2.00                           | Each               | 130.00            | \$260.0  |
| Activity 1.3 | Pavement Testing  |                                |                                |                    | 7                 | \$1,803.0  |
| 1530         | Asphalt Content (ASTM D 2172/6307), per sample            |                                | 1.00                           | Each               | 155.00            | \$155.0  |
| 1532         | Extracted aggregate gradation (ASTM D 5444), per sa       | ımple                          | 1.00                           | Each               | 105.00            | \$105.0  |
| 221          | Bituminous Plant Inspection                               |                                | 4.00                           | Hour               | 90.00             | \$360.0  |
|              | Work Activity Detail Qty Units                            |                                | Hrs/Unit                       |                    | Extension         |  |
| 15.12        | Mark & Observe Contractor Coring & Testing                | 1.00 Trips                     | 2.00                           | 4.00               | 4.00              | 0400.0   |
| 1542         | Thickness and density of pavement core (ASTM D 27         | 20)                            |                                | Each               | 53.00             | \$106.0  |
| 222          | Bituminous Verification Testing                           | 04. 11-14.                     |                                | Hour               | 90.00             | \$630.0  |
|              | Work Activity Detail Bituminous Plant Monitoring          | <b>Qty Units</b><br>1.00 Trips | і н                            | rs/Unit<br>7.00    | Extension<br>7.00 |  |
| 1528         | Rice specific gravity (ASTM D 2041), per sample           |                                | 1.00                           | Each               | 82.00             | \$82.0   |
| 1705         | Fine Aggregate Angularity (ASTM C1252), per sample        | 9                              |                                | Each               | 78.00             | \$78.0   |
| 1568         | Gyratory gravity (AASHTO T312), per sample                |                                |                                | Each               | 185.00            | \$185.0  |
| 1688         | Percent crushed (ASTM D5821), per sample                  |                                |                                | Each               | 82.00             | \$82.0   |
|              |   |                                |                                |                    |                   |  |
| 1861         | CMT Trip Charge   |                                | 2.00                           | Each               | 10.00             | \$20.0   |
| Activity 1.4 | Project Management  |                                |                                |                    |                   | \$2,098.0  |



# **Project Proposal**

## QTB056813

West Skyline Parkway Retaing Wall Restoration SP 118-060-012

| 226  | Project Manager        | 6.00 | Hour           | 145.00 | \$870.00 |  |
|------|------------------------|------|----------------|--------|----------|--|
| 1230 | MnDOT Final Report     | 1.00 | Each           | 750.00 | \$750.00 |  |
| 228  | Senior Project Manager | 1.00 | Hour           | 170.00 | \$170.00 |  |
| 238  | Project Assistant      | 4.00 | Hour           | 77.00  | \$308.00 |  |
|      |                        |      | Phase 1 Total: |        |          |  |

| Proposal Total: | \$6,306.00 |
|-----------------|------------|

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## **Project Proposal**

#### QTB056812

West Skyline Parkway Retaing Wall Restoration SP 118-060-012

Client:

LHB, Inc. Joe Litman 21 West Superior St., Suite 500 Duluth, MN 55802 Work Site Address:

Skyline Parkway Duluth, MN Service Description:

Construction Materials Testing Oneota Overlook

|  | Description   |                 | Quantity    | Units     | Unit Price   | Extension  |
|--|---|-----------------|-------------|-----------|--------------|------------|
| ase 1                                    | MnDOT Testing   |                 |             |           |              |            |
| Activity 1.1                             | Soil Testing  |                 |             |           |              | \$1,005.00 |
| 217                                      | Compaction Testing - Sandcone & DCP's                 |                 | 1.50        | Hour      | 76.00        | \$114.00   |
|  | Work Activity Detail                                  | Qty Units       | Hi          | s/Unit    | Extension    |            |
| 413-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | Aggregate Base  | 1.00 Trips      |             | 1.50      | 1.50         |            |
| 209                                      | Sample pick-up  |                 | 3.00        | Hour      | 76.00        | \$228.0    |
| 1162                                     | Sieve analysis & 200 wash (ASTM C 136 & C 1           | 17) per sample  | 2.00        | Each      | 130.00       | \$260.0    |
| 1688                                     | Percent crushed (ASTM D5821), per sample              |                 | 1.00        | Each      | 82.00        | \$82.0     |
| 1861                                     | CMT Trip Charge                                       |                 | 4.00        | Each      | 10.00        | \$40.0     |
| 207                                      | Compaction Testing - Nuclear                          |                 | 1.00        | Hour      | 76.00        | \$76.0     |
|  | Work Activity Detail                                  | Qty Units       | Hi          | s/Unit    | Extension    |            |
|  | Granular Borrow                                       | 1.00 Trips      |             | 1.00      | 1.00         |            |
| 1318                                     | Standard Proctor Test(ASTM D 698)                     |                 | 1.00        | Each      | 185.00       | \$185.0    |
| 1308                                     | Nuclear moisture-density meter charge, per he         | our             | 1.00        | Each      | 20.00        | \$20.0     |
| Activity 1.2                             | Concrete Testing                                      |                 |             |           |              | \$1,537.0  |
| 261                                      | Concrete Testing                                      |                 | 6.00        | Hour      | 76.00        | \$456.0    |
|  | Work Activity Detail                                  | Qty Units       | H           | rs/Unit   | Extension    |            |
|  | Walls   | 3.00 Trips      |             | 2.00      | 6.00         |            |
| 1364                                     | Compressive strength of concrete cylinders ( specimen | ASTM C 39), per | 9.00        | Each      | 25.00        | \$225.0    |
|  | Work Activity Detail                                  | Qty Units       | : H         | rs/Unit   | Extension    |            |
|  | Walls   | 3.00 Set        |             | 3.00      | 9.00         |            |
| 278                                      | Concrete Cylinder Pick up                             |                 | 1.50        | Hour      | 76.00        | \$114.0    |
|  | Work Activity Detail                                  | Qty Units       |             | rs/Unit   | Extension    |            |
|  | Cylinder Pickup                                       | 3.00 Trips      |             | 0.50      | 1.50         |            |
| 1861                                     | CMT Trip Charge                                       |                 | 7.00        | Each      | 10.00        | \$70.0     |
| 215                                      | Concrete Ready Mix Plant Monitoring                   |                 | 4.00        | Hour      | 102.00       | \$408.0    |
|  | Work Activity Detail                                  |                 |             | Extension |              |            |
|  | Walls   | 1.00 Trips      |             | 4.00      | 4.00         |            |
| 1162                                     | Sieve analysis & 200 wash (ASTM C 136 & C 1           | 17) per sample  | 2.00        | Each      | 132.00       | \$264.0    |
| Activity 1.3                             | ctivity 1.3 Project Management                        |                 |             |           |              | \$759.0    |
| 226                                      | Project Manager                                       |                 | 3.00        | Hour      | 145.00       | \$435.0    |
| 228                                      | Senior Project Manager                                |                 | 1.00        | Hour      | 170.00       | \$170.0    |
| 238                                      | Project Assistant                                     |                 | 2.00        | Hour      | 77.00        | \$154.0    |
|  |   |                 | X 150 2 100 | Ph        | ase 1 Total: | \$3,301.0  |

\$3,301.00

Proposal Total: