

LHB Labor Summary

Client
Preparer

Construction Services



| Project Breakdown - Task Description | | P1 | P5 | P8 | P11 | P13 | T3 | T8 | A1 | Total Labor Costs |
|---|------------|-----------------|-----------------|--------------|--------------------------|-----------|-------------------|--------------------|----------------|-------------------|
| | | Project Manager | Sr Project Eng. | Project Eng. | Eng. XI | Eng. XIII | Sr. Tech Designer | Intermed. Designer | Admin. Assist. | |
| | | \$158 | \$140 | \$105 | \$95 | \$80 | \$93 | \$70 | \$65 | |
| Task 1 - Project Management | | | | | | | | | | (\$) |
| Communication/ Correspondence | | 6.00 | | | | | 12.00 | | | \$2,064 |
| Subconsultant Coordination | | 3.00 | | | | | | | | \$474 |
| Task 2 - Preconstruction Meeting | | | | | | | | | | |
| Meeting Agenda, Meeting and Minutes | | 3.00 | | | | | 6.00 | | | \$1,032 |
| Task 3 - Construction Meetings and Minutes | | | | | | | | | | |
| Estimate 20 Meetings | | 20.00 | | | | | 20.00 | | | \$5,020 |
| Task 4 - Shop Drawing/ Submittal Review | | | | | | | | | | |
| Drainage Structures | | | | | | | 2.00 | | | \$186 |
| Historical/ Masonry Submittals | | 6.00 | | | | | 12.00 | | | \$2,064 |
| Task 5- Survey/ Staking | | | | | | | | | | |
| Verify Control | | | | | | | 4.00 | | | \$372 |
| Oneota- Storm Struct's, Agg Base & Paving | | | | | | | 12.00 | 4.00 | | \$1,396 |
| Sect 3- Agg Base and Paving | | | | | | | 16.00 | 6.00 | | \$1,908 |
| Task 6 - On Site Observations | | | | | | | | | | |
| Est. 24 Wks at 24hrs/ Wk average | | 84.00 | | | | | 576.00 | | | \$66,840 |
| Task 7 - Administrative | | | | | | | | | | |
| Daily/ Weekly Diary | | | | | | | 24.00 | | | \$2,232 |
| IRA Tracking/ Recordkeeping | | | | | | | 30.00 | | | \$2,790 |
| Change Order/ Supplemental Agreements | | 3.00 | | | | | 8.00 | | | \$1,218 |
| Pay Estimates | | 3.00 | | | | | 8.00 | | | \$1,218 |
| Task 8 - Project Closeout | | | | | | | | | | |
| Final Inspection and Punchlist | | 4.00 | | | | | 8.00 | | | \$1,376 |
| Record Drawings | | 1.00 | | | | | 14.00 | | | \$1,460 |
| Prepare and Assemble Final Records | | 2.00 | | | | | 24.00 | | | \$2,548 |
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| | | | | | | | | | | |
| Total Hours | | 135 | 0 | 0 | 0 | 0 | 776 | 10 | 0 | |
| Travel | Miles Est. | # Trips | Rate | Cost | Direct Costs | | Cost | Labor | | \$94,198 |
| Mileage other than insp Vehicle | 800 | | 0.535 | \$428 | Survey Equip | | \$450 | Travel Costs | | \$3,428 |
| Inspection Vehicle @ \$750/ month (60% time) | | | | \$3,000 | Testing (Braun, Est) | | \$9,607 | Direct Costs | | \$10,057 |
| | | | | | | | | | | |
| Total Travel Costs | | | | \$3,428 | Total Direct | | \$10,057 | | | |
| | | | | | Total Not To Exceed Cost | | | | | \$107,683 |

Project Proposal

QTB056813

West Skyline Parkway Retaining 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 |
|---------------------|--|------------|--------------|-----------------|-------------------|
| Phase 1 | MnDOT Testing | | | | |
| Activity 1.1 | Soil Testing | | | | \$930.00 |
| 217 | Compaction Testing - Sandcone & DCP's | 1.50 | Hour | 76.00 | \$114.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Aggregate Base | 1.00 | Trips | 1.50 | 1.50 |
| 209 | Sample pick-up | 4.00 | Hour | 76.00 | \$304.00 |
| 1162 | Sieve analysis & 200 wash (ASTM C 136 & C 117) per sample | 3.00 | Each | 130.00 | \$390.00 |
| 1688 | Percent crushed (ASTM D5821), per sample | 1.00 | Each | 82.00 | \$82.00 |
| 1861 | CMT Trip Charge | 4.00 | Each | 10.00 | \$40.00 |
| Activity 1.2 | Concrete Testing | | | | \$1,475.00 |
| 261 | Concrete Testing | 6.00 | Hour | 76.00 | \$456.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 3.00 | Trips | 2.00 | 6.00 |
| 1364 | Compressive strength of concrete cylinders (ASTM C 39), per specimen | 9.00 | Each | 25.00 | \$225.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 3.00 | Set | 3.00 | 9.00 |
| 278 | Concrete Cylinder Pick up | 1.50 | Hour | 76.00 | \$114.00 |
| 1861 | CMT Trip Charge | 6.00 | Each | 10.00 | \$60.00 |
| 215 | Concrete Ready Mix Plant Monitoring | 4.00 | Hour | 90.00 | \$360.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 1.00 | Trips | 4.00 | 4.00 |
| 1162 | Sieve analysis & 200 wash (ASTM C 136 & C 117) per sample | 2.00 | Each | 130.00 | \$260.00 |
| Activity 1.3 | Pavement Testing | | | | \$1,803.00 |
| 1530 | Asphalt Content (ASTM D 2172/6307), per sample | 1.00 | Each | 155.00 | \$155.00 |
| 1532 | Extracted aggregate gradation (ASTM D 5444), per sample | 1.00 | Each | 105.00 | \$105.00 |
| 221 | Bituminous Plant Inspection | 4.00 | Hour | 90.00 | \$360.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Mark & Observe Contractor Coring & Testing | 1.00 | Trips | 4.00 | 4.00 |
| 1542 | Thickness and density of pavement core (ASTM D 2726) | 2.00 | Each | 53.00 | \$106.00 |
| 222 | Bituminous Verification Testing | 7.00 | Hour | 90.00 | \$630.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Bituminous Plant Monitoring | 1.00 | Trips | 7.00 | 7.00 |
| 1528 | Rice specific gravity (ASTM D 2041), per sample | 1.00 | Each | 82.00 | \$82.00 |
| 1705 | Fine Aggregate Angularity (ASTM C1252), per sample | 1.00 | Each | 78.00 | \$78.00 |
| 1568 | Gyratory gravity (AASHTO T312), per sample | 1.00 | Each | 185.00 | \$185.00 |
| 1688 | Percent crushed (ASTM D5821), per sample | 1.00 | Each | 82.00 | \$82.00 |
| 1861 | CMT Trip Charge | 2.00 | Each | 10.00 | \$20.00 |
| Activity 1.4 | Project Management | | | | \$2,098.00 |

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: | | | | | \$6,306.00 |

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

Project Proposal

QTB056812

West Skyline Parkway Retaining 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 |
|-----------------------|--|------------|--------------|-----------------|-------------------|
| Phase 1 | | | | | |
| MnDOT Testing | | | | | |
| Activity 1.1 | Soil Testing | | | | \$1,005.00 |
| 217 | Compaction Testing - Sandcone & DCP's | 1.50 | Hour | 76.00 | \$114.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Aggregate Base | 1.00 | Trips | 1.50 | 1.50 |
| 209 | Sample pick-up | 3.00 | Hour | 76.00 | \$228.00 |
| 1162 | Sieve analysis & 200 wash (ASTM C 136 & C 117) per sample | 2.00 | Each | 130.00 | \$260.00 |
| 1688 | Percent crushed (ASTM D5821), per sample | 1.00 | Each | 82.00 | \$82.00 |
| 1861 | CMT Trip Charge | 4.00 | Each | 10.00 | \$40.00 |
| 207 | Compaction Testing - Nuclear | 1.00 | Hour | 76.00 | \$76.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Granular Borrow | 1.00 | Trips | 1.00 | 1.00 |
| 1318 | Standard Proctor Test(ASTM D 698) | 1.00 | Each | 185.00 | \$185.00 |
| 1308 | Nuclear moisture-density meter charge, per hour | 1.00 | Each | 20.00 | \$20.00 |
| Activity 1.2 | Concrete Testing | | | | \$1,537.00 |
| 261 | Concrete Testing | 6.00 | Hour | 76.00 | \$456.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 3.00 | Trips | 2.00 | 6.00 |
| 1364 | Compressive strength of concrete cylinders (ASTM C 39), per specimen | 9.00 | Each | 25.00 | \$225.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 3.00 | Set | 3.00 | 9.00 |
| 278 | Concrete Cylinder Pick up | 1.50 | Hour | 76.00 | \$114.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Cylinder Pickup | 3.00 | Trips | 0.50 | 1.50 |
| 1861 | CMT Trip Charge | 7.00 | Each | 10.00 | \$70.00 |
| 215 | Concrete Ready Mix Plant Monitoring | 4.00 | Hour | 102.00 | \$408.00 |
| | <i>Work Activity Detail</i> | <i>Qty</i> | <i>Units</i> | <i>Hrs/Unit</i> | <i>Extension</i> |
| | Walls | 1.00 | Trips | 4.00 | 4.00 |
| 1162 | Sieve analysis & 200 wash (ASTM C 136 & C 117) per sample | 2.00 | Each | 132.00 | \$264.00 |
| Activity 1.3 | Project Management | | | | \$759.00 |
| 226 | Project Manager | 3.00 | Hour | 145.00 | \$435.00 |
| 228 | Senior Project Manager | 1.00 | Hour | 170.00 | \$170.00 |
| 238 | Project Assistant | 2.00 | Hour | 77.00 | \$154.00 |
| Phase 1 Total: | | | | | \$3,301.00 |

Proposal Total: \$3,301.00