E. Medical Center Drive Bridge Rehabilitation and Widening Project

City of Ann Arbor RFP #20-21 EMCD Bridge Rehabilitation and Widening



| EMCD Bridge Rehabilitation and Widening | | DLZ | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-------------------|-----------------|--|-----------------------------------|-------------------------------------|-----------------|--|--|--------------|--------------------|---------------------------------------|--|---|--|-----------------|----------------------------|---------------------------|--|-------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------|
| | | Project Principal | Project Manager | Quality Manager - Bridge | Quality Manager - Road/Traffic | Lead Bridge/Load Rating Engineer | Bridge Engineer | Bridge Engineer | Bridge Engineer | Designer | Lead Road Engineer | Road/Pavement Marking/MOT Engineer | Lead Traffic Engineer | Work Zone Mobility and Safety Engineer | Traffic Engineer | Traffic Support | Municipal Utilities Design | Quality Manager - Traffic | Traffic Data Collection | Traffic Data Collection | Signal Design/Operations Engineer | Signal Design/Operations Engineer | Signal Design/Operations Engineer | |
| Task Description | Number of Meetings | Manoj Sethi | Mark Lessens | Michael Kummeth | David Hoeh | Carrie Hamel | Kyle Slavik | Matt Lawler | Chris Selvaggio | David Fildey | Sean Riley | David King | Matt Hamel | Charles Fawcett | Tian, Xin | Brad Park | Mark Mattson | Slezak, Scot | Ogunnubi, Olanrewaju | Ogunnubi, Oladapo | Wiktorzak, Daniel | Hoerbert, Zebadiah | Georgescu, Roxana | TOTAL |
| 1 Professional Project Management | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Develop and Administer Project Management Plan | | | 80 | | | | | | | | | | | | | | | | | | | | | 80 |
| Bi-Weekly Design Progress Meetings | 25 | 10 | 100 | 16 | 12 | | | | | | 24 | | 24 | | | | + | | | | | | | 176 212 |
| Management and Coordination Kickoff Meeting | 1 | 4 | 200 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | | 4 | 4 | 4 | | 4 | 5 | | | | | | 57 |
| Weekly Phone Calls | | | 98 | | · | · | | | | | · | | · | | · | | | Ĭ | | | | | | 98 |
| 2 Alternative Design Analysis | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Road MOT | | | 8 | | 4 | | | | | | 16 | 40 16 | 16 | 16 | 40 | | + | | | | | | | 68 100 |
| Signals | | | 8 | | 4 | | | | | | | 10 | 10 | 10 | 40 | | + | | | | | | | 52 |
| Bridge | | | 8 | 8 | · | 100 | 80 | | | 220 | | | | | ., | | | | | | | | | 416 |
| Path | | | 8 | 4 | 4 | 40 | 40 | | | 80 | 8 | | | | | | | | | | | | | 184 68 |
| Utilities T | | | 8 | | 4 | 20 | 20 | | | 20 | | | 40 | 24 | 40 | | 1 | | | | | | | 68 108 |
| Traffic | | | | | 4 | | | | | | | | 40 | 24 | 40 | | + | | | | | | | 0 |
| 3 Design of Bridge/Roadway/Path | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Preliminary | | | | | | 16 | | | | | | | | | | | | | | | | | | 16 |
| Road | | | 8 | | 8 | | | | | | 24 | 40 | | - | | | | | | | | | | 80 |
| MOT Signals | | - | 8 | | 8 | | | | <u> </u> | | | 40 | 16 4 | 24 | 60 | 60 | - | | | | 60 | 50 | 50 | 156 240 |
| Signals Bridge | | | 8 | 8 | 4 | 120 | 60 | 8 | 4 | 360 | | | 4 | 4 | | 00 | + | | | | 00 | 50 | 30 | 568 |
| Path | | | 8 | 4 | 4 | 80 | 20 | 6 | 2 | 60 | 16 | 16 | | | | | | | | | | | | 216 |
| Utilities | | | 8 | | | 16 | | | | | | | | | | | 40 | | | | | | | 64 |
| Traffic | | | | | 8 | 40 | | | | | | 40 | 24 | 16 | 58 | | | | 60 | 60 | | | | 266 |
| Final Road | | | | | | 16 | | | | | 24 | 22 | - | + | | | + | | | | | | | 16 72 |
| MOT | | | 8 | | 4 | | | | 1 | | 24 | 40 | 8 | 16 | 48 | | | | | | | | | 124 |
| Signals | | | 8 | | 4 | | | | | | | | 4 | 4 | | 44 | | | | | 50 | 45 | 45 | 204 870 |
| Bridge | | | 8 | 8 | | 80 | 40 | 8 | 6 | 720 | | | | | | | | | | | | | | |
| Path | | | 8 | 4 | 2 | 20 | 8 | 8 | 4 | 100 | 8 | 16 | | | | 4 | 40 | | | | | | | 182 64 |
| Utilities Traffic | | | 8 | | 4 | 16 | | | | | | | 4 | 6 | 60 | 8 | 40 | | | | | | | 90 |
| Hanic | | | 0 | | 4 | | | | 1 | | | | - | 0 | 00 | | | | | | | | | 0 |
| 3 Utility Coordination | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Collecting Utility Data from Utilities | | | 4 | | | 20 | | | | | | | | | | | | | | | | | | 24 |
| SUE Coordination | | | 16 | | | | | | | | | | | | | | | | | | | | | 16 |
| 4 0 - 4 - 1 - 1 0 - 1 - 1 | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | 0 |
| 4 Geotechnical Services Geotechnical Services Coordination | | 1 | 16 | | 1 | Я | 8 | | | | 4 | | 1 | + | | | + | | | | | | | 0 36 |
| SSSSSTITION OF FIGURE OF STREET | | İ | 10 | 1 | 1 | | 3 | 1 | 1 | | | | | 1 | | | 1 | | 1 | | | | | 0 |
| 5 Stakeholder Engagement | | | | | | | | | | | | | | | | | | | | | | | | 0 97 |
| Document Preparation | | . | 8 | | ļ | 8 | 8 | 2 | 2 | 16 | 8 | 16 | 8 | 8 | 4 | | 4 | 5 | | | | | | |
| Coordination of Services | | 4 | 16 | | 1 | 8 | 8 | 2 | 2 | | | | | + | | | + | - | | | | - | | 40 0 |
| 6 Design Assistance During Construction | | 1 | + | - | 1 | | | - | | | | | † | + | | | 1 | | - | | | | | 0 |
| Shop Drawing Reviews | | 1 | 16 | | <u> </u> | 40 | 40 | 8 | 6 | | | | | <u> </u> | 4 | | 8 | 5 | | | | | | 127 |
| RFI's and Questions | | | 16 | | | 16 | 16 | 2 | 2 | | 16 | 8 | 4 | | 4 | | 4 | 5 | | | | | | 93 |
| | | + | + | | 1 | 24 | | | | | | | - | + | | | + | | | | | | | 24 |
| 7 Public Meetings | | 1 | - | | 1 | | | | 1 | | | | | + | | | 1 | | | | | | | 0 |
| Meeting Preparations and Attendance (5 Meetings) | 5 | 1 | 40 | 4 | 1 | 80 | 20 | 8 | 4 | | | | 1 | 1 | | | 1 | | 1 | | | | | 156 |
| Rendered Drawings | | | 20 | 4 | | 40 | 4 | | | | | | | | | | | | | | | | | 68 |
| | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 8 Stakeholder Engagement | 5 | | 40 | ! | 1 | 16 | | . | | | | | ! | + | | | 1 | | ! | | | | | 0 56 |
| Stakeholder Meetings Miscellaneous Coordination | 5 | + | 40 8 | | 1 | 10 | | | + | | | | | + | | | + | | | | | | | 8 |
| Assist with Property Owner Negotiations | 2 | 1 | 6 | 1 | 1 | | | 1 | 1 | | | | 1 | 1 | | | 1 | | 1 | | | | | 6 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL HOURS | | 20 | 840 | 64 | 90 | 788 | 376 | 56 | 36 | 1,576 | 152 | 304 | 156 | 122 | 362 | 116 | 100 | 20 | 60 | 60 | 110 | 95 | 95 | 5,598 |
| | | 20 | 370 | , | 30 | , 00 | 010 | - 50 | | 1,010 | 132 | UU7 | 100 | 122 | UUL | . 10 | .00 | 20 | 30 | 70 | .10 | - 55 | 30 | 0,000 |

Note: Survey, Geotechnical and SUE efforts are included as lump sum costs on the cost sheet, hours are not included in the hours by task.

V:\Opportunities\Lansing\2021\Transportation\{LN21023922} City of Ann Arbor - E Medical Center Dr Bridge Rehabilitation Widening 21-20\Working Proposal\[Copy of Hours Table & Fee Proposal_POST INTERVIEW.xlsx]DLZ Fee Derivation

DERIVATION OF DLZ AND SUBCONSULTANT COSTS FIRM ROLE: PROJECT NO. RFP # 21-20 Prime Firm PRIME CONSULTANT NAME: PROJECT DESCRIPTION: E. Medical Center Drive Bridge Rehabilitation and Widening DLZ MICHIGAN, INC. Project PRIME DIRECT LABOR: **HOURS** LABOR COST CLASSIFICATION NAME RATE/HR 2,318.26 51,582.30 5,066.88 Project Principal Manoj Sethi \$ 115.91 \$ Project Manager Mark Lessens 840 \$ \$ 61.41 \$ Quality Manager - Bridge 64 79.17 Michael Kummeth Quality Manager - Road/Traffic David Hoeh 90 70.34 6,330.56 37,991.45 12,994.84 Lead Bridge/Load Rating Engineer Carrie Hamel 788 48.21 \$ \$ \$ \$ 376 Kyle Slavik Bridge Engineer 34.56 \$ Bridge Engineer 3,939.01 Matt Lawler 56 70.34 \$ Bridge Engineer Chris Selvaggio 69.73 2,510.30 \$ \$ \$ \$ Designer Lead Road Engineer David Fildey Sean Riley 1576 152 34.66 59.12 \$ \$ 54,627.71 8,986.81 Road/Pavement Marking/MOT Engineer David King 304 41.41 12,589.25 Lead Traffic Engineer Matt Hamel 156 \$ \$ \$ \$ \$ \$ 56.33 8,787.87 Work Zone Mobility and Safety Engineer Charles Fawcett 122 63 84 \$ \$ 7.788.91 18,077.56 362 49.94 Traffic Engineer Tian, Xin Traffic Support Brad Park 116 30.25 3,508.65 7,485.63 776.48 Municipal Utilities Design Mark Mattson 100 74.86 \$ Quality Manager - Traffic 38.82 Slezak, Scot 20 \$ \$ \$ \$ Traffic Data Collection Ogunnubi, Olanrewaju 60 1,492.05 24.87 Traffic Data Collection Ogunnubi, Oladapo 60 18.47 1,108.38 Signal Design/Operations Engineer Signal Design/Operations Engineer Wiktorzak, Daniel Hoerbert, Zebadiah 110 \$ \$ 57.45 \$ 6.319.39 4,628.40 48.72 95 \$ Signal Design/Operations Engineer Georgescu, Roxana 95 26.39 2,507.05 Total Hours: 5598 261,417.72 Total Labor \$ PRIME OVERHEAD: (Total Labor x Overhead Rate) 164.55% 430,162.85 Overhead Rate: Total Overhead \$ PRIME FACILITIES COST OF CAPITAL: (Total Labor x FCC Rate) FCC Rate: 1.00% Total FCC \$ 2,614.18 PRIME OTHER DIRECT EXPENSES: Unit Price 0.56 <u>Item Price</u> 1,120.00 1,000.00 Items Mileage Quantity <u>Unit</u> @ \$ 2000 Each \$ 100.00 Each \$ Lodging 0000000 Per Diem 14 45.00 Each 630.00 Amtrak Permit Fee (Estimated) Amtrak Flagging (Estimated) 5.000.00 5.000.00 1 Each \$ \$ \$ \$ \$ \$ 3 1,500.00 4,500.00 Each Topographical Survey 28,000.00 Each 28,000.00 MioVision Processing Field Recon and Coord - Geotechnical Engineering 840 \$ 22.26 Hours \$ \$ 18,698.40 7,004.00 7,004.00 Each Field Exploration - Geotechnical Engineering @ \$ 46,136.00 \$ 46,136.00 Each Laboratory - Geotechnical Engineering @ 13,670.50 Each 13,670.50 Eng Analysis & Report - Geotechnical Engineering Presentation Materials @ \$ 27,320.00 250.00 Each \$ 27,320.00 1,250.00 Each Total Other Direct Expenses \$ 154,328.90 PRIME FIXED FEE FOR PROFIT: ((Total Labor + Total Overhead) x XX%) Fixed Fee Rate: 11% Total Fixed Fee \$ 76,073.86 SUBCONTRACTORS T2 UES (SUE) 86,721.78 86,721.78 Subcontract Total \$

TOTAL COSTS SUMMARY \$

1,011,319.29