SIGNATURE PAGE

P-46-2021

To the Monmouth County Board of County Commissioners:

THE UNDERSIGNED HEREBY DECLARES THAT I (WE) HAVE CAREFULLY EXAMINED THE SPECIFICATIONS. I (WE) HEREBY CERTIFY PRICES QUOTED ARE IN ACCORDANCE WITH YOUR REQUIREMENTS.

| Company Name: | Traffic Planning and Design, Inc. |
|----------------------------------------------------------|----------------------------------------------------------------|
| | Gregory Bitsko, PE, PP, (PRINT) |
| Preparer's Name: | New Jersey Regional Office Manager/Structures Leader |
| Signature: | April 8, 2022 (DATE |
| Address: | 303 West Main Street, Suite 330 |
| | Freehold, NJ 07728 |
| Telephone No.: | Office: 848.444.6105 Direct: 848.208.3428 Cell: 908.596.0858 |
| Fax No.: | 610.326.9410 |
| E-Mail Address: | GBitsko@TrafficPD.com |
| 5 | ***(This should be the email where Contracts would be sent)*** |
| Contact Person: | Gregory Bitsko, PE, PP |
| FEIN: | |
| (Federal Employee ID) BRC: (Business Registration Cert) | |

(Revised 2/2017)



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-73 ON IMLAYSTOWN-HIGHTSTOWN ROAD OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY, NEW JERSEY

| Task | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | Tech Sec (Admin.) | Total Hours | Labor Cost By Task |
|------|-------------------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|----------------------|----------------|-----------------------|
| 1 | Field Survey (Banc3) | | | | | | | | | | | 0 | \$0.00 |
| 2 | Deed Research & ROW Documents (Banc3) | | | | | | | | | | | 0 | \$0.00 |
| 3 | Geotechnical Services (FPA) | | | | | | | | | | | 0 | \$0.00 |
| 4 | Hydrologic and Hydraulic Analysis (SWM) | | | | | | | | | | | 0 | \$0.00 |
| 5 | Environmental Study & Permits | 0 | 8 | 0 | 0 | 24 | 168 | 0 | 0 | 0 | 0 | 200 | \$22,401.60 |
| 6 | Alternatives Analysis | 0 | 3 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | \$4,446.00 |
| 7 | Bridge Design & Contract Documents | 8 | 0 | 76 | 0 | 0 | 180 | 0 | 0 | 0 | 0 | 264 | \$32,260.80 |
| 8 | Highway Design & Contract Documents | 8 | 17 | 38 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 222 | \$28,327.00 |
| 9 | Traffic Design & Contract Documents | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 8 | \$1,060.80 |
| 10 | Utility Coordination & Contract Documents | 0 | 0 | 12 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 30 | \$3,712.80 |
| 11 | Meetings & Community Involvement | 0 | 12 | 4 | 12 | 0 | 0 | 0 | 0 | 0 | 2 | 30 | \$4,175.60 |
| 12 | Project Management | 4 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | \$4,825.60 |
| 13 | Construction Support | 0 | 0 | 14 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 38 | \$4,659.20 |
| | Man-Hours | 20 | 70 | 144 | 42 | 183 | 394 | 0 | 0 | 0 | 2 | 855 | |
| | Direct Salary Rate (See Note 1) | \$74.00 | \$60.00 | \$56.00 | \$51.00 | \$45.00 | \$42.00 | \$32.00 | \$30.00 | \$28.00 | \$25.00 | | |
| | Multiplier (See Note 2) | | | | | 2 | .60 | | | | | | |
| | TOTAL LABOR COST | \$3,848.00 | \$10,920.00 | \$20,966.40 | \$5,569.20 | \$21,411.00 | \$43,024.80 | \$0.00 | \$0.00 | \$0.00 | \$130.00 | | \$105,869.40 |

| DIRECT EXPENSES | |
|-----------------------------------------|-------------|
| SUBCONSULTANTS | |
| Field Survey (Banc3) | \$9,927.36 |
| Deed Research & ROW Documents (Banc3) | \$2,949.36 |
| Geotechnical Services (FPA) | \$8,150.00 |
| Hydrologic and Hydraulic Analysis (SWM) | \$30,500.00 |
| Cultural Resources (HRI) | \$6,819.68 |
| SUBTOTAL-Sub-Consultants | \$58,346.40 |
| Reproduction | \$500.00 |
| Postage/Delivery | |
| Transportation | |
| Out-of-Pocket Expenses | |
| SUBTOTAL-Misc. Expenses | \$500.00 |
| TOTAL DIRECT EXPENSES | \$58,846,40 |

NOTES: 1. Direct Salary Rate does not include employee benefits.

- 2. Multiplier includes overhead, profit, and employee benefits.
 3. Labor Cost By Task = (Man-hour) x (Direct Salary Rate) x (Multiplier).
 4. Direct expenses billed at invoice costs (no profit or overhead).
 5. Overhead includes communication, lodging, meals, and indirect expenses.

| TOTAL LABOR COST | \$105,869.40 |
|-----------------------|--------------|
| TOTAL DIRECT EXPENSES | \$58,846.40 |
| TOTAL PROJECT COST | \$164 715 80 |

| Excluded Services From the Cost Above | | | | | | |
|----------------------------------------------------------------------|--|--|--|--|--|------------|
| Traffic Control for Borings (1 days)(If not performed by the County) | | | | | | \$2,000.00 |



DETAILED BREAKDOWN OF TASKS AND HOURS



| Task | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | Tech Sec (Admin.) | | Labor Cost By Task |
|------|--------------------------------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|----------------------|-----|-----------------------|
| 1 | Field Survey (Banc3) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 2 | Deed Research & ROW Documents (Banc3) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 3 | Geotechnical Services (FPA) | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 4 | Hydrologic and Hydraulic Analysis (SWM) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 5 | Environmental Study & Permits | 0 | 8 | 0 | 0 | 24 | 168 | 0 | 0 | 0 | - 0 | 200 | \$22,401.60 |
| | Wetland delineation | | 1 | | | | 24 | | | | | 25 | \$2,776.80 |
| | 2. Individual Freshwater Wetland and Open Water Permit | | 1 | | | | 60 | | | | | 61 | \$6,708.00 |
| | 3. Individual Flood Hazard Permit | | 2 | | | | 80 | | | | | 82 | \$9,048.00 |
| | 4. Permit Plans | | 2 | | | 24 | | | | | | 26 | \$3,120.00 |
| | 5. Coordination with County | | 2 | | | | 4 | | | | | 6 | \$748.80 |
| 6 | Alternatives Analysis | 0 | 3 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | \$4,446.00 |
| | Concept Roadway Design | | | | | | | | | | | | |
| | Roadway Design Alternatives | | | | 6 | | | | | | | 6 | \$795.60 |
| | 2. Cost Estimates & Narrative Report | | 1 | | 6 | | | | | | | 7 | \$951.60 |
| | Concept Bridge Design | | | | | | | | | | | | |
| | Bridge Alternatives Analysis & Narrative Report | | 1 | | 6 | | | | | | | 7 | \$951.60 |
| | 2. Bridge Geometric Sketches | | | | 6 | | | | | | | 6 | \$795.60 |
| | 3. Bridge Cost Estimates | | 1 | | 6 | | | | | | | 7 | \$951.60 |



DETAILED BREAKDOWN OF TASKS AND HOURS



| sk | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | Tech Sec (Admin.) | | Labor Cost By Task |
|----|----------------------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|----------------------|-----|-----------------------|
| | | | | TWIN THE SEA | | | | | | | | | |
| | Bridge Design & Contract Documents | 8 | 0 | 76 | 0 | 0 | 180 | 0 | 0 | 0 | 0 | 264 | \$32,260.80 |
| | Interim Design | | | | | | | | | | | | |
| | General Plan and Elevation | | | 4 | | | 10 | | | | | 14 | \$1,674.40 |
| | 2. Demolition Plan | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | Bridge Section and Working Points | | | 2 | | | 8 | | | | | 10 | \$1,164.80 |
| | 4. Pile Design | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 5. Pile Plans | | | 3 | | | 10 | | | | | 13 | \$1,528.80 |
| | 6. Footing Design | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 7. Footing Plans | | | 3 | | | 10 | | | | | 13 | \$1,528.80 |
| | 8. 3-Sided Rigid Frame Design | | | 4 | | | 14 | | | | | 18 | \$2,111.20 |
| | 9. 3-Sided Rigid Frame Plan and Details | | | 4 | | | 10 | | | | | 14 | \$1,674.40 |
| | 10. Wingwall and Headwal Design | | | 4 | | | 10 | | | | | 14 | \$1,674.40 |
| | 11. Wingwall and Headwall Plans and Sections | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 12. Parapet / Railing Details | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 13. Miscellaneous Details | | | 2 | | | 6 | | | | | 8 | \$946.40 |
| | 14. Quantities | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 22. Sheeting Wall Design | | | 4 | | | 8 | | | | | 12 | \$1,456.00 |
| | 23. Sheeting Wall Plans | | | 2 | | | 8 | | | | | 10 | \$1,164.80 |
| | Final Design | | | | | | | | | | | | |
| | General Plan and Elevation | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 2. Demolition Plan | | | 2 | | | 2 | | | | | 4 | \$509.60 |
| | Bridge Section and Working Points | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 4. Pile Plans | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 5. Footing Plans | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 6. 3-Sided Rigid Frame Details | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 7. Wingwall and Headwall Plans and Sections | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 8. Parapet / Railing Details | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 9. Miscellaneous Details | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 10. Quantities | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 11. Sheeting Wall Plans | | | 2 | | | 4 | | | | | 6 | \$728.00 |
| | 12. Quality Assurance | 8 | | | | | | | | | | 8 | \$1,539.20 |



DETAILED BREAKDOWN OF TASKS AND HOURS



| k | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | Tech Sec (Admin.) | | Labor Cost By Task |
|---|----------------------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|----------------------|-----|-----------------------|
| | | | | | | | | | | | | | |
| | Highway Design & Contract Documents | 8 | 17 | 38 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 222 | \$28,327.00 |
| L | Interim Design | | | | | | | | | | | | |
| | 1. Key Sheet | | | 1 | | 2 | | | | | | 3 | \$379.60 |
| | 2. Typical Section (1" = 5") | | | 1 | | 10 | | | | | | 11 | \$1,315.60 |
| | 3. Plan Sheet Layout - Including Survey ties | | | 3 | | 8 | | | | | | 11 | \$1,372.80 |
| | 4. Construction Plan | | | 3 | | 14 | | | | | | 17 | \$2,074.80 |
| | 5. Profile | | | 3 | | 10 | | | | | | 13 | \$1,606.80 |
| | 6. Guide Rail Design | | | 2 | | 8 | | | | | | 10 | \$1,227.20 |
| Ī | 7. Grading Plans | | | 2 | | 8 | | | | | | 10 | \$1,227.20 |
| | 8. Signing & Striping Plan | | | 2 | | 6 | | | | | | 8 | \$993.20 |
| Ì | 9. Detour Plans | | | 3 | | 8 | | | | | | 11 | \$1,372.80 |
| Ì | 10. SESC Plans | | | 3 | | 10 | | | | | | 13 | \$1,606.80 |
| Ì | 11. Cross Sections | | | 3 | | 16 | | | | | | 19 | \$2,308.80 |
| Ì | 12. Construction Details | | | 2 | | 8 | | | | | | 10 | \$1,227.20 |
| Ì | 13. Quantities | | | 3 | | 8 | | | | | | 11 | \$1,372.80 |
| Ì | 14. Engineer's Estimate | | | 3 | | 6 | | | | | | 9 | \$1,138.80 |
| Ī | 15. Specifications | | | 4 | | | | | | | | 4 | \$582.40 |
| Ī | Final Design | | | | | | | | | | | | |
| Ì | 1. Key Sheet | | 1 | | | 1 | | | | | | 2 | \$273.00 |
| Ì | 2. Typical Section (1" = 5") | | 1 | | | 1 | | | | | | 2 | \$273.00 |
| Ì | 3. Plan Sheet Layout - Including Survey ties | | 1 | | | 2 | | | | | | 3 | \$390.00 |
| Ì | 4. Construction Plan | | 1 | | | 4 | | | | | | 5 | \$624.00 |
| Ì | 5. Profile | | 1 | | | 3 | | | | | | 4 | \$507.00 |
| Ì | 6. Grading Plan | | 1 | | | 3 | | | | | | 4 | \$507.00 |
| Ì | 7. Signing & Striping Plan | | 1 | | | 3 | | | | | | 4 | \$507.00 |
| İ | 8. Detour Plan | | 1 | | | 3 | | | | | | 4 | \$507.00 |
| Ì | 9. SESC Plans | | 1 | | | 4 | | | | | | 5 | \$624.00 |
| Ì | 10. Cross Sections | | 1 | | | 4 | | | | | | 5 | \$624.00 |
| İ | 11. Construction Details | | 1 | | | 2 | | | | | | 3 | \$390.00 |
| Ì | 12. Quantities | | 1 | | | 4 | | | | | | 5 | \$624.00 |
| Ì | 13. Engineer's Estimate | | 1 | | | 3 | | | | | | 4 | \$507.00 |
| I | 14. Specifications | | 4 | | | | | | | | | 4 | \$624.00 |
| t | 15. Quality Assurance | 8 | | | | | | | | | | 8 | \$1,539.20 |



DETAILED BREAKDOWN OF TASKS AND HOURS



| Task | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | Tech Sec (Admin.) | | Labor Cost By Task |
|------|-----------------------------------------------|----------------------------------|-----------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|----------------------|------|-----------------------|
| 0 | Traffic Design & Contract Documents | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 8 | \$1,060.80 |
| | Coordination with Local Authorities | | 2 | TOTAL CONTROL OF | The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa | | 2 | 0 | 0 | B-Hamilton V. | STATE VALUE OF | 4 | \$530.40 |
| | Evaluate traffic detour alternatives | | 2 | | | | 2 | | | | | 4 | \$530.40 |
| | | | | | | | | | | | | | \$550.40 |
| 10 | Utility Coordination & Contract Documents | 0 | 0 | 12 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 30 | \$3,712.80 |
| | Prepare and Maintain Contact List | | | 2 | | | 3 | | | | | 5 | \$618,80 |
| | 2. Verify Existing Facilities | | | 2 | | | 3 | | | | | 5 | \$618.80 |
| | 3. Utility Coordination & Field Meeting (2) | | | 2 | | | 3 | | | | | 5 | \$618.80 |
| | Evaluate Utility Relocations | | | 2 | | | 3 | | | | | 5 | \$618.80 |
| | 5. Prepare Utility Relocation Plans | | | 2 | | | 3 | | | | | 5 | \$618.80 |
| | 6. Document Utility Relocation/Coordination | | | 2 | | | 3 | | | | | 5 | \$618.80 |
| | | | | | | | | A | | | | | |
| 11 | Meetings & Community Involvement | 0 | 12 | 4 | 12 | 0 | 0 | 0 | 0 | 0 | 2 | 30 | \$4,175.60 |
| | Kick-off Meeting | | 2 | 2 | | | | | | | | 4 | \$603.20 |
| | Meeting with Municipal Traffic Safety Officer | | | 2 | 2 | | | | | | | 4 | \$556.40 |
| | 3. Meetings w/ Local Authorities (assume 2) | | 4 | | 4 | | | | | | 2 | 10 | \$1,284.40 |
| | Pre-Application Meeting | | 2 | | 2 | | | | | | | 4 | \$577.20 |
| | 5. Project Status/Submission Meetings | | 4 | | 4 | | | | | | | 8 | \$1,154.40 |
| | | | | THE SECOND | | Electrical States | ALC: NO. | | WAR 18-26 | | | No. | |
| 12 | Project Management | 4 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | \$4,825.60 |
| | Progress Reports (12) | | 6 | | | | | | | | | 6 | \$936.00 |
| | 2. Project Coordination | | 14 | | | | | | | | | 14 | \$2,184.00 |
| | Organize Correspondence | | 6 | | | | | | | | | 6 | \$936.00 |
| | Quality Assurance | 4 | | | | | | | | | | 4 | \$769.60 |
| | | | | | | | | | | | | 6.30 | |
| 13 | Construction Support | 0 | 0 | 14 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 38 | \$4,659.20 |
| | Shop Drawings | | | 6 | | | 24 | | | | | 30 | \$3,494.40 |
| | Requests for Information (RFIs) | | | 6 | | | | | | | | 6 | \$873.60 |
| | 3. Substitutions | | | 2 | | | | | | | | 2 | \$291.20 |
| | | | | | | | | | | 100 | | | |
| | Man-Hours | 20 | 70 | 144 | 42 | 183 | 394 | 0 | 0 | 0 | 2 | 855 | |
| | Direct Salary Rate (See Note 1) | \$74.00 | \$60.00 | \$56.00 | \$51.00 | \$45.00 | \$42.00 | \$32.00 | \$30.00 | \$28.00 | \$25.00 | | |
| | Multiplier (See Note 2) | | | | | 2. | .60 | | | | | | |
| | TOTAL LABOR COST | \$3,848.00 | \$10,920.00 | \$20,966.40 | \$5,569.20 | \$21,411.00 | \$43,024.80 | \$0.00 | \$0.00 | \$0.00 | \$130.00 | 9-92 | \$105,869.40 |

BANC3 Engineering Inc. (BANC3)

PROJECT COST AND WORK HOUR PROPOSAL FORM

PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-73 ON IMLAYSTOWN-HIGHTSTOWN ROAD OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY, NEW JERSEY

| Task | Description | PVII (Sr. Project Manager) | PVI (Project Manager) | PV (Technical Manager) | PIV (Project Engineer) | PIII (Engineer) | PII (Junior Engineer) | ET5 (Senior Technician) | ET4 (Technician) | ET3 (Junior Technician) | ET2 (Rod Man) | Total Hours | Labor Cost By Task |
|------|---------------------------------|----------------------------------|-----------------------------|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|---------------------|-------------------------------|------------------|----------------|-----------------------|
| 1 | Field Survey | 4 | | | | | | | 88 | | 56 | 148 | \$9,927.36 |
| 2 | Deed Research & ROW Documents | 4 | | | | | | | 20 | | | 24 | \$2,199.36 |
| | Man-Hours | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 0 | 56 | 172 | |
| | Direct Salary Rate (See Note 1) | \$54.10 | | | | | | | \$35.00 | | \$15.00 | | |
| | Multiplier (See Note 2) | | | | | 2. | 40 | | | | | | |
| | TOTAL LABOR COST | \$1,038.72 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$9,072.00 | \$0.00 | \$2,016.00 | | \$12,126.72 |

| DIRECT EXPENSES | | | | | |
|-------------------------|----------|--|--|--|--|
| Reproduction | \$150.00 | | | | |
| Deed Research | \$500.00 | | | | |
| Transportation | \$100.00 | | | | |
| Out-of-Pocket Expenses | | | | | |
| SUBTOTAL-Misc. Expenses | \$750.00 | | | | |
| TOTAL DIRECT EXPENSES | \$750.00 | | | | |

NOTES: 1. Direct Salary Rate does not include employee benefits.

- 2. Multiplier includes overhead, profit, and employee benefits.
- 3. Labor Cost By Task = (Man-hour) x (Direct Salary Rate) x (Multiplier).
- 4. Direct expenses billed at invoice costs (no profit or overhead).
- 5. Overhead includes communication, lodging, meals, and indirect expenses.

| TOTAL LABOR COST | \$12,126.72 |
|-----------------------|-------------|
| TOTAL DIRECT EXPENSES | \$750.00 |
| TOTAL PROJECT COST | \$12,876.72 |

French & Parrello Associates, PA (FPA)

PROJECT COST AND WORK HOUR PROPOSAL FORM

| | Task Description | | Project Consultant | Senior Project Manager | Project Engineer | Staff Engineer | Sen. Field Rep. | Admin. Assistant | Total |
|----|-------------------------------------------------|------------|-----------------------|------------------------------|---------------------|-------------------|--------------------|---------------------|------------|
| Ge | eotechnical Services | | | | | | | | |
| Α | Project Set-Up | | | 2 | | | | | 2 |
| В | Subsurface Exploration | | | 2 | | 9 | | 2 | 13 |
| С | Report Preparation & Foundation Design Criteria | | 2 | | 12 | | | 2 | 16 |
| | TO | TAL HOURS | 2 | 4 | 12 | 9 | 0 | 4 | 31 |
| | HOL | JRLY RATES | \$190.00 | \$170.00 | \$140.00 | \$100.00 | \$85.00 | \$65.00 | |
| | T | OTAL COST | \$380.00 | \$680.00 | \$1,680.00 | \$900.00 | \$0.00 | \$260.00 | \$3,900.00 |

| Direct Expenses | |
|------------------------------------|------------|
| Mobilization/Demobilization | \$500.00 |
| Borings w/ Truck Mounted Drill Rig | \$3,000.00 |
| Laboratory Testing | \$750.00 |
| TOTAL DIRECT EXPENSES | \$4,250.00 |

| GRAND TOTAL | \$8,150.00 |
|-----------------|------------|
| DIRECT EXPENSES | \$4,250.00 |
| TOTAL COST | \$3,900.00 |

Storm Water Management Consulting, LLC (SWM)

PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-73 ON IMLAYSTOWN-HIGHTSTOWN ROAD OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY, NEW JERSEY

Preliminary Scope of Work and Cost Estimate
Hydrologic and Hydraulic Design and NJDEP Flood Hazard Area Permitting
March 29, 2022

Note: Proposed Based Upon Need for Individual NJDEP FHA Permits

| Task No. | Description | Estimate Hours |
|----------|---------------------------------------------------------------------------|-------------------|
| 1 | Conduct Structure, Waterway, and Flood Plain Reconnaissance | 6 |
| 2 | Provide Required Field Survey Locations and Details to TPD | 2 |
| 3 | Develop Existing Condition HydroCAD Hydrologic Model | 16 |
| 4 | Develop Existing Condition HEC-RAS Hydraulic Model | 12 |
| 5 | Analyze and Evaluate Existing Condition Capacities and Road Overtoppings | 4 |
| 6 | Develop Preliminary Proposed Condition HEC-RAS Hydraulic Models | 8 |
| 7 | Analyze and Evaluate Pproposed Condition Capacities and Road Overtoppings | 4 |
| 8 | Review Preliminary Results with TPD and Monmouth County | 6 |
| 9 | Develop Proposed Condition HydroCAD Hydrologic Model | 4 |
| 10 | Develop Final Proposed Condition HEC-RAS Models | 4 |
| 11 | Review Final Results with TPD and Monmouth County | 5 |
| 12 | Provide Hydraulic Design Assistance to TPD | 8 |
| 13 | Attend NJDEP Pre-Application Meeting | 4 |
| 14 | Prepare Hydrologic and Hydraulic Design Report | 30 |
| 15 | Provide Design Data for Permit Applications | 4 |
| 16 | Address NJDEP Technical Questions | 8 |
| _ | Subtotal Estimated Hours = | 125 |
| | + 20% Contingencies | 25 |
| | Total Estimated Hours = | 150 |
| - | Hourly Rate for Engineering Services = | \$200 |
| | Total Estimated Engineering Services = | \$30,000 |
| | Estimated Expenses = | \$500 |
| - | Total Estimated Charge = | \$30,500 |

Hunter Research, Inc. (HRI)

PROJECT COST AND WORK HOUR PROPOSAL FORM

Professional Engineering Services Regarding the Design for the Replacement of Bridge U-73 on Imlaystown-Hightstown Road over New Sharon Brook in the Township Upper of Freehold, Monmouth County, New Jersey.

| Task Description | PIX (Principal) | PV (Principal Investigator) | PIII (Sr. Arch. Historian) | PIII (Historian/ Arch. Historian) | ETIII (Sr. Archaeologist) | ETII (Graphics Specialist) | ETI (Field/Lab Assistant) | Total Hours | Labor Cost By Task |
|---------------------------------|--------------------|-----------------------------------|----------------------------------|--------------------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------|-----------------------|
| Cultural Resources | | 14 | 4 | 32 | 2 | 16 | 20 | 88 | \$6,679.68 |
| Man-Hours | 0 | 14 | 4 | 32 | 2 | 16 | 20 | 88 | |
| Direct Salary Rate (See Note 1) | \$52.00 | \$40.00 | \$40.00 | \$23.50 | \$28.00 | \$24.00 | \$22.00 | | |
| Multiplier (See Note 2) 2.84 | | | | | | | | | |
| TOTAL LABOR COST | \$0.00 | \$1,590.40 | \$454.40 | \$2,135.68 | \$159.04 | \$1,090.56 | \$1,249.60 | | \$6,679.68 |

| DIRECT EXPENSES | | | | |
|-------------------------|----------|--|--|--|
| Reproduction | \$140.00 | | | |
| Postage/Delivery | | | | |
| Transportation | | | | |
| Out-of-Pocket Expenses | | | | |
| SUBTOTAL-Misc. Expenses | \$140.00 | | | |
| TOTAL DIRECT EXPENSES | \$140.00 | | | |

NOTES: 1. Direct Salary Rate does not include employee benefits.

- 2. Multiplier includes overhead, profit, and employee benefits.
- 3. Labor Cost By Task = (Man-hour) x (Direct Salary Rate) x (Multiplier).
- 4. Direct expenses billed at invoice costs (no profit or overhead).
- $5.\ Overhead\ includes\ communication,\ lodging,\ meals,\ and\ indirect\ expenses.$

| TOTAL LABOR COST | \$6,679.68 |
|-----------------------|------------|
| TOTAL DIRECT EXPENSES | \$140.00 |
| TOTAL PROJECT COST | \$6,819.68 |