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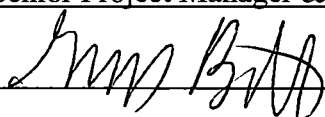
P-49-2023

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.

Preparer's Name: Gregory Bitsko, PE, PP, (PRINT)
Senior Project Manager & New Jersey Regional Leader (PRINT)

Signature:  February 22, 2024
(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
***** (This should be the email where Contracts would be sent) *****

Contact Person: Gregory Bitsko, PE, PP

FEIN: 

(Federal Employee ID)
BRC: 

(Business Registration Certificate)

(Revised 2/2017)

PROJECT COST AND WORK HOUR PROPOSAL FORM

P-49-2023

PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER 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 (Geotrek)												
2	Deed Research & ROW Documents (Geotrek)												
3	Geotechnical Services (CED)												
4	Hydrologic and Hydraulic Analysis (SWM)												
5	Environmental Study & Permits	0	4	192	0	24	0	0	0	0	8	228	\$33,446.40
6	Alternatives Analysis	0	6	0	0	50	0	0	0	0	0	56	\$7,852.00
7	Bridge Design & Contract Documents	12	102	0	0	534	0	0	0	0	0	648	\$93,600.00
8	Highway Design & Contract Documents	24	25	65	0	0	393	0	0	0	0	507	\$62,946.00
9	Traffic Design & Contract Documents	0	4	0	0	0	4	0	0	0	0	8	\$1,164.80
10	Utility Coordination & Contract Documents	0	26	0	0	0	72	0	0	0	0	98	\$12,594.40
11	Meetings & Community Involvement	0	12	4	12	0	0	0	0	0	0	28	\$4,472.00
12	Project Management	4	32	0	0	0	0	0	0	0	0	36	\$6,770.40
13	Construction Support	0	22	0	0	80	0	0	0	0	0	102	\$14,820.00
Man-Hours		40	233	261	12	688	469	0	0	0	8	1,711	
Direct Salary Rate (See Note 1)		\$91.00	\$70.00	\$58.00	\$54.00	\$52.00	\$42.00	\$38.00	\$32.00	\$30.00	\$25.00		
Multiplier (See Note 2)		2.60											
TOTAL LABOR COST		\$9,464.00	\$42,406.00	\$39,358.80	\$1,684.80	\$93,017.60	\$51,214.80	\$0.00	\$0.00	\$0.00	\$520.00		\$237,666.00

NOTES: CONSULTANT COMMENTS & CLARIFICATIONS:

RFP states to include 2 GPPM and 8 parcel maps. However, the road has a 66' ROW and the proposed out to out bridge in 41'-0". TPD does not feel there will be a need for any takings of ROW. In addition, the east side of U-70 is all Assunpink Wildlife Management area that TPD will avoid encroaching during design. Please see deducts below for the cost difference anticipating no takings of ROW will be required.

DIRECT EXPENSES	
SUBCONSULTANTS	
Field Survey (Geotrek)	\$41,133.00
Deed Research & ROW Documents + expenses (Geotrek)	\$14,962.40
Geotechnical Services (CED)	\$57,846.70
Hydrologic and Hydraulic Analysis (SWM)	\$70,200.00
Cultural Resources + expenses (HRI)	\$9,360.20
Traffic Control for borings	\$8,000.00
SUBTOTAL-Sub-Consultants	\$201,502.30
Reproduction	\$500.00
Postage/Delivery	
Transportation	
Out-of-Pocket Expenses	
SUBTOTAL-Misc. Expenses	\$500.00
TOTAL DIRECT EXPENSES	\$202,002.30

TOTAL LABOR COST	\$237,666.00
TOTAL DIRECT EXPENSES	\$202,002.30
TOTAL PROJECT COST	\$439,668.30

Potential Deducts

If Detour is permitted over staged construction													-\$6,300.00
If County is responsible for Traffic Control for borings													-\$8,000.00
Anticipation of zero parcels needed													-\$12,309.00

DETAILED BREAKDOWN OF TASKS AND HOURS



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER 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.)		Labor Cost By Task
1	Field Survey (Geotrek)	0	0	0	0	0	0	0	0	0	0	0	\$41,133.00
2	Deed Research & ROW Documents (Geotrek)	0	0	0	0	0	0	0	0	0	0	0	\$12,309.00
3	Geotechnical Services (CDD)	0	0	0	0	0	0	0	0	0	0	0	\$57,846.40
4	Hydrologic and Hydraulic Analysis (SWAD)	0	0	0	0	0	0	0	0	0	0	0	\$70,200.00
5	Environmental Study & Permits	0	4	19	0	24	0	0	0	0	8	228	\$33,446.40
	1. Wetland delineation			16								16	\$2,412.80
	2. Individual Freshwater Wetland and Open Water Permit			80							4	84	\$12,324.00
	3. Individual Flood Hazard Permit			80							4	84	\$12,324.00
	4. Permit Plans		2			24						26	\$3,608.80
	5. Coordination with County & DEP		2	16								18	\$2,776.80
6	Alternatives Analysis	0	6	0	0	50	0	0	0	0	0	56	\$78,520.00
	Concept Roadway Design												
	1. Roadway Design Alternatives					10						10	\$1,352.00
	2. Cost Estimates & Narrative Report		2			10						12	\$1,716.00
	Concept Bridge Design												
	1. Bridge Alternatives Analysis & Narrative Report		2			10						12	\$1,716.00
	2. Bridge Geometric Sketches					10						10	\$1,352.00
	3. Bridge Cost Estimates		2			10						12	\$1,716.00

DETAILED BREAKDOWN OF TASKS AND HOURS



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER 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.)		Labor Cost By Task
7	Bridge Design & Contract Documents	12	102	0	0	534	0	0	0	0	0	648	\$93,600.00
	Interim Design												
	1. General Plan and Elevation		4			20						24	\$3,432.00
	2. Demolition Plan		2			10						12	\$1,716.00
	3. Bridge Section and Working Points		2			16						18	\$2,527.20
	4. Stage Plans		2			16						18	\$2,527.20
	5. Pile Design		4			12						16	\$2,350.40
	6. Pile Plans		4			20						24	\$3,432.00
	7. Footing Design		4			16						20	\$2,891.20
	8. Footing Plans		4			20						24	\$3,432.00
	9. Abutment Design		4			14						18	\$2,620.80
	10. Abutment Plans		4			24						28	\$3,972.80
	11. Beam and Bearing Design		4			24						28	\$3,972.80
	12. Beam and Bearing Details		4			30						34	\$4,784.00
	13. Deck Design		4			12						16	\$2,350.40
	14. Deck plans		4			20						24	\$3,432.00
	15. Wingwall Design		4			16						20	\$2,891.20
	16. Wingwall Plans and Sections		4			36						40	\$5,595.20
	17. Parapet / Railing Details		4			16						20	\$2,891.20
	18. Miscellaneous Details		4			10						14	\$2,080.00
	19. Rebar Charts		4			20						24	\$3,432.00
	20. Quantities		4			20						24	\$3,432.00
	21. QA/QC	4										4	\$946.40
	Final Design												
	1. General Plan and Elevation		2			10						12	\$1,716.00
	2. Demolition Plan		2			8						10	\$1,445.60
	3. Bridge Section and Working Points		2			10						12	\$1,716.00
	4. Staging Plans		2			10						12	\$1,716.00
	5. Pile Plans		2			10						12	\$1,716.00
	6. Footing Plans		2			10						12	\$1,716.00
	7. Abutment Plans		2			10						12	\$1,716.00
	8. Beam and Bearing Details		2			16						18	\$2,527.20
	9. Deck Plans		2			10						12	\$1,716.00
	10. Wingwall Plans and Sections		2			24						26	\$3,608.80
	11. Parapet / Railing Details		2			10						12	\$1,716.00
	12. Miscellaneous Details		2			8						10	\$1,445.60
	13. Rebar Charts		2			10						12	\$1,716.00
	14. Quantities		2			16						18	\$2,527.20
	15. Quality Assurance	8										8	\$1,892.80

DETAILED BREAKDOWN OF TASKS AND HOURS



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER 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.)		Labor Cost By Task
8	Highway Design & Contract Documents	24	25	65	0	0	393	0	0	0	0	507	\$62,946.00
	Interim Design												
	1. Key Sheet			1			4					5	\$587.60
	2. Typical Section (1" = 5")			4			18					22	\$2,568.80
	3. Plan Sheet Layout - Including Survey ties			4			13					17	\$2,022.80
	4. Construction Plan			6			30					36	\$4,180.80
	5. Profile and Alignment Design			4			18					22	\$2,568.80
	6. Profile Plan			4			18					22	\$2,568.80
	7. Guide Rail Design			2			14					16	\$1,830.40
	8. Grading Plans			4			14					18	\$2,132.00
	9. Signing & Striping Plan			4			10					14	\$1,695.20
	10. Staging Plans			4			30					34	\$3,879.20
	11. SESC Plans			4			18					22	\$2,568.80
	12. Cross Sections			6			30					36	\$4,180.80
	13. Construction Details			2			10					12	\$1,393.60
	14. Quantities			8			24					32	\$3,827.20
	15. Engineer's Estimate			8			16					24	\$2,953.60
	16. QA/QC	4										4	\$946.40
	17. Specifications	4										4	\$946.40
	Final Design												
	1. Key Sheet		1				2					3	\$400.40
	2. Typical Section (1" = 5")		2				6					8	\$1,019.20
	3. Plan Sheet Layout - Including Survey ties		2				6					8	\$1,019.20
	4. Construction Plan		2				8					10	\$1,237.60
	5. Profile		2				8					10	\$1,237.60
	6. Grading Plan		2				8					10	\$1,237.60
	7. Signing & Striping Plan		2				8					10	\$1,237.60
	8. Staging Plans		2				16					18	\$2,111.20
	9. SESC Plans		2				16					18	\$2,111.20
	10. Cross Sections		2				16					18	\$2,111.20
	11. Construction Details		2				6					8	\$1,019.20
	12. Quantities		2				16					18	\$2,111.20
	13. Engineer's Estimate		2				10					12	\$1,456.00
	14. Specifications	8										8	\$1,892.80
	15. Quality Assurance	8										8	\$1,892.80

DETAILED BREAKDOWN OF TASKS AND HOURS



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER 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.)		Labor Cost By Task
9	Traffic Design & Contract Documents	0	4	0	0	0	4	0	0	0	0	8	\$1,164.80
	1. Coordination with Local Authorities		2				2					4	\$582.40
	2. Evaluate traffic detour alternatives		2				2					4	\$582.40
10	Utility Coordination & Contract Documents	0	26	0	0	0	72	0	0	0	0	98	\$12,594.40
	1. Prepare and Maintain Contact List		4				16					20	\$2,475.20
	2. Verify Existing Facilities		4				10					14	\$1,820.00
	3. Utility Coordination & Field Meeting (4)		6				6					12	\$1,747.20
	4. Evaluate Utility Relocations		4				10					14	\$1,820.00
	5. Prepare Utility Relocation Plans		4				20					24	\$2,912.00
	6. Document Utility Relocation/Coordination		4				10					14	\$1,820.00
11	Meetings & Community Involvement	0	12	4	12	0	0	0	0	0	0	28	\$4,472.00
	1. Kick-off Meeting		2	2								4	\$665.60
	2. Meeting with Municipal Traffic Safety Officer			2	2							4	\$582.40
	3. Meetings w/ Local Authorities (assume 2)		4		4							8	\$1,289.60
	4. Pre-Application Meeting		2		2							4	\$644.80
	5. Project Status/Submission Meetings		4		4							8	\$1,289.60
12	Project Management	4	32	0	0	0	0	0	0	0	0	36	\$6,770.40
	1. Progress Reports (12)		6									6	\$1,092.00
	2. Project Coordination		20									20	\$3,640.00
	3. Organize Correspondence		6									6	\$1,092.00
	4. Quality Assurance	4										4	\$946.40
13	Construction Support	0	22	0	0	80	0	0	0	0	0	102	\$14,820.00
	1. Shop Drawings		10			80						90	\$12,636.00
	2. Requests for Information (RFIs)		10									10	\$1,820.00
	3. Substitutions		2									2	\$364.00
	Man-Hours	40	233	261	12	688	469	0	0	0	8	1,711	
	Direct Salary Rate (See Note 1)	\$91.00	\$70.00	\$58.00	\$54.00	\$52.00	\$42.00	\$38.00	\$32.00	\$30.00	\$25.00		
	Multiplier (See Note 2)						2.60						
	TOTAL LABOR COST	\$9,464.00	\$42,406.00	\$39,358.80	\$1,684.80	\$93,017.60	\$51,214.80	\$0.00	\$0.00	\$0.00	\$520.00		\$237,666.00

PROJECT COST AND WORK HOUR PROPOSAL FORM
GeoTrek Environmental and Surveying, LLC (Geotrek)

P-49-2023

PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER COUNTY, NEW JERSEY



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1	Field Survey (Geotrek)	4	29					118	117	117	0	385	\$41,133.00	
2	Deed Research & ROW Documents (Geotrek)	2	7					92				101	\$12,309.00	
3	Geotechnical Services (CED)											0	\$0.00	
4	Hydrologic and Hydraulic Analysis (SWM)											0	\$0.00	
5	Environmental Study & Permits											0	\$0.00	
6	Alternatives Analysis											0	\$0.00	
7	Bridge Design & Contract Documents											0	\$0.00	
8	Highway Design & Contract Documents											0	\$0.00	
9	Traffic Design & Contract Documents											0	\$0.00	
10	Utility Coordination & Contract Documents											0	\$0.00	
11	Meetings & Community Involvement											0	\$0.00	
12	Project Management											0	\$0.00	
13	Construction Support											0	\$0.00	
Man-Hours		6	36	0	0	0	0	210	117	117	0	486		
Direct Salary Rate (See Note 1)		\$65.00	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39.00	\$38.00	\$24.00	\$1.00			
Multiplier (See Note 2)		3.00												
TOTAL LABOR COST		\$1,170.00	\$5,940.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,570.00	\$13,338.00	\$8,424.00	\$0.00		\$53,442.00	

NOTES: CONSULTANT COMMENTS & CLARIFICATIONS:

DIRECT EXPENSES	
Reproduction	\$50.00
Postage/Delivery	\$375.00
Transportation	\$1,778.40
Out-of-Pocket Expenses	\$450.00
SUBTOTAL-Misc. Expenses	\$2,653.40
TOTAL DIRECT EXPENSES	\$2,653.40

TOTAL LABOR COST	\$53,442.00
TOTAL DIRECT EXPENSES	\$2,653.40
TOTAL PROJECT COST	\$56,095.40

PROJECT COST AND WORK HOUR PROPOSAL FORM
Colliers Engineering & Design, Inc. (CED)

P-49-2023

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1	Field Survey (Geotrek)											0	\$0.00
2	Deed Research & ROW Documents (Geotrek)											0	\$0.00
3	Geotechnical Services (CED)	5	5	0	20	16	80	0	0	0	0	126	\$18,746.70
4	Hydrologic and Hydraulic Analysis (SWM)											0	\$0.00
5	Environmental Study & Permits											0	\$0.00
6	Alternatives Analysis											0	\$0.00
7	Bridge Design & Contract Documents											0	\$0.00
8	Highway Design & Contract Documents											0	\$0.00
9	Traffic Design & Contract Documents											0	\$0.00
10	Utility Coordination & Contract Documents											0	\$0.00
11	Meetings & Community Involvement											0	\$0.00
12	Project Management											0	\$0.00
13	Construction Support											0	\$0.00
	Man-Hours	5	5	0	20	16	80	0	0	0	0	126	
	Direct Salary Rate (See Note 1)	\$96.25	\$78.81	\$0.00	\$63.52	\$52.20	\$40.85	\$0.00	\$0.00	\$0.00	\$0.00		
	Multiplier (See Note 2)	3.00											
	TOTAL LABOR COST	\$1,443.75	\$1,182.15	\$0.00	\$3,811.20	\$2,505.60	\$9,804.00	\$0.00	\$0.00	\$0.00	\$0.00		\$18,746.70

NOTES: CONSULTANT COMMENTS & CLARIFICATIONS:

DIRECT EXPENSES	
Reproduction	
Postage/Delivery	
Subcontractor	\$39,100.00
Out-of-Pocket Expenses	
SUBTOTAL-Misc. Expenses	\$39,100.00
TOTAL DIRECT EXPENSES	\$39,100.00

TOTAL LABOR COST	\$18,746.70
TOTAL DIRECT EXPENSES	\$39,100.00
TOTAL PROJECT COST	\$57,846.70

Stormwater Management Consulting, LLC (SWM)
SWM - Traffic Planning & Design
Replacement of Monmouth County Bridges U-70 and U-71
Preliminary Scope of Work and Cost Estimate
Hydrologic and Hydraulic Design and NJDEP Flood Hazard Area Permitting
February 16, 2024
Revised February 20, 2024

Note: Proposed Based Upon Need for Individual NJDEP FHA Permits

Task No.	Description	Estimated 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 Models	32
4	Develop Existing Condition HEC-RAS Hydraulic Models	16
5	Analyze and Evaluate Existing Condition Capacities and Road Overtoppings	8
6	Develop Preliminary Proposed Condition HEC-RAS Hydraulic Models	16
7	Analyze and Evaluate Pproposed Condition Capacities and Road Overtoppings	8
8	Review Preliminary Results with TPD and Monmouth County	8
9	Develop Proposed Condition HydroCAD Hydrologic Models	8
10	Develop Final Proposed Condition HEC-RAS Models	16
11	Review Final Results with TPD and Monmouth County	8
12	Provide Hydraulic Design Assistance to TPD	12
13	Attend NJDEP Pre-Application Meeting	8
14	Prepare Hydrologic and Hydraulic Design Report	48
15	Provide Design Data for Permit Applications	12
16	Address NJDEP Technical Questions	16
Subtotal Estimated Hours =		224
+ 25% Contingencies		56
Total Estimated Hours =		280
Hourly Rate for Engineering Services =		\$250
Total Estimated Engineering Services =		\$70,000
Estimated Expenses =		\$200
Total Estimated Charge =		\$70,200

PROJECT COST AND WORK HOUR PROPOSAL FORM

P-49-2023

Hunter Research, Inc. (Hunter)

PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE U-70 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER ASSUNPINK CREEK IN THE TOWNSHIPS OF MILLSTONE AND UPPER FREEHOLD, MONMOUTH COUNTY AND THE TOWNSHIPS OF EAST WINDSOR AND ROBBINSVILLE, MERCER COUNTY, NEW JERSEY AND THE REPLACEMENT OF BRIDGE U-71 ON COUNTY ROUTE 539 (OLD YORK ROAD) OVER NEW SHARON BROOK IN THE TOWNSHIP OF UPPER FREEHOLD, MONMOUTH COUNTY AND IN THE TOWNSHIP OF ROBBINSVILLE, MERCER COUNTY, NEW JERSEY



Task	Description	PV (Principal Investigator)	PV (Principal Investigator/ Report Manager)	PIII (Architectural Historian)	PIII (Historian)	ETIII (Senior Archaeologist)	ETH (Graphics Specialist)	ET5 (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tech Sec (Admin.)	Total Hours	Labor Cost By Task	
1	Field Survey (Geotrek)											0	\$0.00	
2	Deed Research & ROW Documents (Geotrek)											0	\$0.00	
3	Geotechnical Services (CED)											0	\$0.00	
4	Hydrologic and Hydraulic Analysis (SWM)											0	\$0.00	
5	Environmental Study & Permits (Hunter)	8	4	8	62	20	6	0	0	0	0	108	\$9,258.88	
6	Alternatives Analysis											0	\$0.00	
7	Bridge Design & Contract Documents											0	\$0.00	
8	Highway Design & Contract Documents											0	\$0.00	
9	Traffic Design & Contract Documents											0	\$0.00	
10	Utility Coordination & Contract Documents											0	\$0.00	
11	Meetings & Community Involvement											0	\$0.00	
12	Project Management											0	\$0.00	
13	Construction Support											0	\$0.00	
	Man-Hours	8	4	8	62	20	6	0	0	0	0	108		
	Direct Salary Rate (See Note 1)	\$45.00	\$45.00	\$45.00	\$28.00	\$30.00	\$28.00	\$1.00	\$1.00	\$1.00	\$1.00			
	Multiplier (See Note 2)	2.72												
	TOTAL LABOR COST	\$979.20	\$489.60	\$979.20	\$4,721.92	\$1,632.00	\$456.96	\$0.00	\$0.00	\$0.00	\$0.00		\$9,258.88	

NOTES: CONSULTANT COMMENTS & CLARIFICATIONS:

DIRECT EXPENSES	
Reproduction	\$50.00
Postage/Delivery	
Transportation	\$51.32
Out-of-Pocket Expenses	
SUBTOTAL-Misc. Expenses	\$101.32
TOTAL DIRECT EXPENSES	\$101.32

TOTAL LABOR COST	\$9,258.88
TOTAL DIRECT EXPENSES	\$101.32
TOTAL PROJECT COST	\$9,360.20