SIGNATURE PAGE

P-37-2022

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:	October 11, 2022
Address:	303 West Main Street, Suite 330
	Freehold, NJ 07728
Telephone No.:	Office: 848.444.6105 Direct: 848.208.3428 Cell:
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:	0812128

(Business Registration Certificate)

(Revised 2/2017)



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE A-38 ON COUNTY ROUTE 54 (PHALANX ROAD) OVER SWIMMING RIVER RESERVOIR IN THE TOWNSHIP OF COLTS NECK AND THE TOWNSHIP OF MIDDLETOWN MONMOUTH COUNTY, NEW JERSEY



Task	Description	PVII (Sr. Project Manager)	PVI (Project Manager)	PV (Technical Manager)	PTV (Project Engineer)	PIII (Engineer)	PII (Junior Engineer)	ETS (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tạch Sec (Admin.)	Total Hours	Labor Cost By Task
1	Field Survey (Bane3)											0	\$0.00
2	Deed Research & ROW Documents (Banc3)											0	\$0.00
3	Geotechnical Services (Colliers)											0	\$0.00
4	Hydrologic and Hydraulic Analysis (SWM)											0	50. 00
5	Environmental Study & Permits	0	12	0	0	32	192	0	0	0	0	236	\$28,870.40
6	Alternatives Analysis	0	6	0	60	0	0	0	0	0	0	66	\$9,703.20
7	Bridge Design & Contract Documents	8	0	106	0	314	0	0	0	0	0	428	\$60,398.00
8	Highway Design & Contract Documents	32	42	0	0	104	0	329	0	0	0	507	\$57,977.40
9	Traffic Design & Contract Documents	0	8	0	4	0	50	0	0	0	0	62	\$7,919.60
10	Utility Coordination & Contract Documents	0	0	i 4	0	0	26	0	0	0	0	40	\$5,408.00
li.	Meetings & Community Involvement	0	14	4	[4	0	0	0	0	0	٥	32	\$5,298.80
12	Project Management	4	28	0	0	0	0	0	0	0	0	32	\$6,073.60
13	Construction Support	0	0	14	0	0	40	0	0	0	0	54	\$7,046.00
	Man-Hours	44	110	138	78	450	308	329	0	0	0	1,457	Marg. R
	Direct Salary Rate (Sec Note 1)	\$80.00	\$72.00	\$65.00	\$55.00	\$50.00	\$45.00	\$35.00	\$30.00	\$28.00	\$25.00	深	
	Multiplier (See Note 2)					2.	60					200	
	TOTAL LABOR COST	\$9,152.00	\$20,592.00	\$23,322.00	\$11,154.00	\$58,500.00	536,036.00	\$29,939.00	\$0.00	\$0.00	\$0.00	以数据以	\$188,695.00

DIRECT EXPENSES		
SUBCONSULTANTS		
Field Survey (Banc3)	\$18,865.72	
Deed Research & ROW Documents (Banc3)	\$6,9\$6.99	
Geotechnical Services (Colliers)	\$23,500.00	
Hydrologic and Hydraulic Analysis (SWM)	\$29,540.00	
Cultural Resources (HRI)	\$6,483.48	
SUBTOTAL-Sub-Consultants	\$85,346.19	
Reproduction	00.0022	
Postage/Delivery		
Transportation		
Out-of-Packet Expenses		
SUBTOTAL-Misc. Expenses	\$599.00	
TOTAL DIRECT EXPENSES	\$85,846.19	

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	\$188,695.00
TOTAL DIRECT EXPENSES	\$85,846.19
TOTAL PROJECT COST	\$274,541.19

Excluded Services From the Cost Above

Ī	Traffic Control for Borings (4 days)(If not performed by the C	County)		 				 \$12,000.00
ĺ	 Phase 1B Archeological Survey (If and Where)			}	<u></u>			\$9,035.55
-	Application for Project Authorization (If and Where)			}		 · .		\$1,763.46
Ī	Price deduction for 2 boring alternative]				 -\$9,000.00



DETAILED BREAKDOWN OF TASKS AND HOURS



Task	Description	PVII (Sr. Project Menager)	PVI (Project Manager)	PV (Teehnieal Manager)	PIV (Project Engineer)	PIII (Engineer)	PH (Junior Engineer)	ET5 (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tech Sec (Admin.)		Labor Cost By Task
	Wall Spring (Paint)	64 0 V		A#10/51	4 50 0 3 ×	4	1			1		200	\$2.80X0X.5X
2	Read Research & ROW Comments (Panel)	2000	(e) (e)	2-0	0.00	37 (1) (1)	2150.25	2.60,08	2450.00	7.70	2000	34.000	**************************************
B	(Pictural Standard (PPA))		0.00	0		G = 0	22.0	20.00		2.100	3 0 (0 A)	SA-0 62	\$6,000
				W. 18 (WA)	2,000	. 14 Sept. 1990.		100000		2.51.2000	12.22	2. 3-	
-{}	Residence and Divinence Analysis (SWAI)	22.0	SA 10/296	の対象を	以学教室	2 to 0 to 10	2200	C 2013	\$2.20 G	3 1 0 3 L	26.40 V	200.0	46.8 S0 90 35 3
		1296 (871-151)	1000000	N 8 9 3 3 4	14.11A/15.4			5-27/46 (1) h		Market 1988			
Ŗ	Environmental Study & Primitis,	0.0		000	100	2.00	1927	20		0		206	\$528,87040
	I. Wetland delineation		1]	24					25	\$2,995.20
	2. Individual Freshwater Wetland and Open Water Permit		1.			ŧ	60					61	\$7,207.20
	3. Individual Flood Hazard Permit		2	l	[I	60					62	\$7,394.40
	4. BMP Measures		4			ĺ	40			[44	\$5,428.80
	5. Permit Plans		2		[32						34	\$4,534.40
	6. Coordination with County/NJDEP		2				8			ĺ		10	\$1,310.40
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5												
8	Alicanolive Analysis	Service Comments	6 2	STATE OF THE STATE	60 474	07	200	0	1.44 y - 104 T. S.	P 10 0	2	7.7665	2,50,703,20
	Concept Roadway Design						ĺ	i					
	Roadway Design Alternatives				12							12	\$1,716.00
	2. Cost Estimates & Narrative Report		2		12							14	\$2,090.40
	Concept Bridge Design									ĺ	j		[]
	Bridge Alternatives Analysis & Narrative Report		2		12				Ì			14	\$2,090.40
	2. Bridge Geometric Sketches				12		i		İ	ĺ	j	12	\$1,716,00
	Bridge Cost Estimates	İ	2		12	Ì	Ì	ĺ				14	\$2,090.40

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DETAILED BREAKDOWN OF TASKS AND HOURS



sk Description	PVII (Sr. Project Manager)	PVI (Project Manager)	PV (Technical Manager)	PIV (Project Engineer)	P11t (Engineer)	PII (Junior Engîncer)	ET5 (Senior Technician)	ET4 (Teehnician)	ET3 (Junior Technician)	Tech Sec (Admin.)		Labor Cost By Task
Britige Design & Contract Decements			1003	0	204	0	0	Ö	<u>0</u>	Ø	/EO	\$60,523400
Interim Design		·	325	<u> </u>	20-2	3	<u> </u>				425	COU-SECTION
General Plan and Elevation			4		10						[4	\$1,976.00
2. Demplition Plan			2		6	1		-			8	\$1,118.00
3. Bridge Section and Working Points			2		- 8			_			10	\$1,378.00
4. Bridge Staging Sections			4		10					İ	14	\$1,976.00
5. Pile Design			4		8						12	\$1,716.00
6. Pile Plans	1		4		10						[4	\$1,976.00
7. Footing Design			4		8						12	\$1,716.00
8. Footing Plans			4		12	<u> </u>					16	\$2,236.00
9. Abutment Design			4		14						18	\$2,496.00
10. Abutment Plans	-		4		12						16	\$2,236.00
11. Bearing Design			4		8						12	\$1,716.00
12. Bearing Plans			4		8						12	\$1,716.00
I3. Beam Design			4		16						20	\$2,756.00
14. Beam Plans			4		14						18	\$2,496.00
15. Wingwall Design			4		10			-			14	\$1,976.00
16. Wingwall Plans			4		12						16	\$2,236.00
17. Parapet / Railing Details			4		10			_			14	\$1,976.00
18. Miscellaneous Details		_	2		10						12	\$1,638.00
19. Quantities			6		26						32	\$4,394.00
20. Sheeting Wall Design			4		8						12	\$1,716.00
21. Sheeting Wall Plans			3		12						15	\$2,067.00
Final Design					1						-	i
General Plan and Elevation			2		6						- 8	\$1,118.00
2. Demolition Plan			1		4	İ					5	\$689.00
3. Bridge Section and Working Points			2		6				-		8	\$1,118.00
4. Bridge Staging Sections			2		6						8	\$1,118.00
5. Pile Plans			2		6						- 8	\$1,118.00
6. Footing Plans			2		6						8	\$1,118.00
7. Abutment Plans			2		6						8	\$1,118.00
8. Bearing Plans			2		6						8	\$1,118.00
9. Beam Plans			2		6						8	\$1,118.00
10. Wingwall Plans			2		6						8	\$1,118.00
11. Parapet / Railing Details			2		6		į				8	\$1,118.00
t2. Miscellaneous Details			2		6						8	\$1,118.00
13. Quantities			2		6						8	\$1,118.00
14. Sheeting Wall Plans			2		6						8	\$1,118.00
15. Quality Assurance	8						ŀ				8	\$1,664,00



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)	ETS (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tech Sec (Admin.)		Labor Cost By Tusk
		312	42	0: 5	0	103	. 20	320	THE OF	- 0	0	.507	\$500FF40 .
	Interim Design					ļ	ļ						
	1. Key Sheet					2		3				5	\$533.00
	2. Typical Section (1" = 5")		. !			2	<u> </u>	16				19	\$1,903.20
	3. Plan Sheet Layout - Including Survey ties		ı			3		10			Į	14	\$1,487.20
	4. Construction Plan		l			8	Į	24				33	\$3,411.20
	Horizontal and Vertical Design		6			20					<u> </u>	26	\$3,723.20
	6. Profile plan		l			3		10				14	\$1,487.20
	7. Guide Rail Design		ı			2	<u> </u>	8				1i	\$1,175.20
	8. Grading Plans		ı			6		24				31	\$3,151.20
	9. Signing & Striping Plan		ı			2		16				19	\$1,903.20
	10. Staging Plans		2			4		24				30	\$3,078.40
	11. ŞESC Plans		4			6	Ì	30				40	\$4,258.80
	12. Cross Sections		4			8]	40				52	\$5,428.80
	13. Construction Details					2	İ	8				10	\$988.00
	14. Quantities		ı			6		24				31	\$3,151.20
- 1	15. Engineer's Estimate					3	İ	8				12	\$1,305.20
	16. Specifications	4										4	\$832.00
- 1	Finał Design					İ		_					
	1. Key Sheet		ı	Ì		i		1				3	\$408.20
	2. Typical Section (1" = 5")		ī	i		2		4				7	\$811.20
1	3. Plan Sheet Layout - Including Survey ties		ı	ì		2		2				5	\$629.20
	4. Construction Plan		2	i		2	İ	8			ĺ	12	\$1,362.40
j	5. Profile		ı			2		6				9	\$993.20
Ì	6. Grading Plan		ı	1		2	i	6			ĺ	9	\$993.20
1	7. Signing & Striping Plan		1			2		4			i	7	\$811.20
	8. Staging Plans		2	i		4		16				22	\$2,350.40
	9. SESC Plans		2			2		16				20	\$2,090.40
	10. Cross Sections		2			2		10				14	\$1,544.40
	11. Construction Details		l			2	-	2				5	\$629.20
	12. Quantities		i			2		6				9	\$993.20
	13. Engineer's Estimate		1			2		3				6	\$720.20
	14. Specifications	20		<u> </u>		<u> </u>						20	\$4,160.00
	15. Quality Assurance	8		<u> </u>		1						8	\$1,664.00

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DETAILED BREAKDOWN OF TASKS AND HOURS



Task	Description	PVII (Sr. Project Manager)	PVI (Project Manager)	PV (Technical Manager)	PIV (Project Engineer)	PHI (Engineer)	PII (Junior Engineer)	ETS (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tech Spc (Admin.)		Labor Cost By Task
G	The file Postus & Contract Dominants	0)	8	. 0	6	1 0	50	0	n.	0	0	622	554919460
_	Coordination with Local Authorities		2				2			<u> </u>	<u></u>	4	\$608.40
	2. Alternating Temporary Traffic Signal Design		4		4		44	_				52	\$6,468.80
	3. Evaluate traffic detour as an alternative		2				4					6	\$842.40
100	Livily Conduction & Contract Documents	0	0	943	0	0	26	0	Ð	0	- 0	40	85,403.00
	Prepare and Maintain Contact List			2			4					6	\$806.00
	2. Verify Existing Facilities			2]		4	_				6	00.6082
	3. Utility Coordination & Field Meeting			4			6					10	\$1,378.00
	Evaluate Utility Relocations			2			4					6	\$806.00
	5. Prepare Utility Relocation Plans			2			4					6	\$806.00
	6. Document Utility Relocation/Coordination			2			4					6	\$806.00
<u> </u>	Mustings & Community Involvement	0	-10	- 4	iki .	O	. 0	1.00 O	0	0	0	392	\$5,208.80
	1. Kick-off Meeting		2	2								4	\$712,40
	Meeting with Municipal Traffic Safety Officer			2	2							4	\$624.00
	Meetings w/ Stake Holders (assume 2)		6		6							12	\$1,981.20
	4. Pre-Application Meeting		2		2							4	\$660.40
	Project Status/Submission Meetings		4		4							. 8	\$1,320.80
122	Profest Management	4)		11 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 -	0 4	Ojć (e	0	. 0	0	Ű.	392	S6078460
	1. Progress Reports (12)		8									8	\$1,497.60
	2. Project Coordination		14									14	\$2,620.80
	Organize Correspondence		6		ļ							6	\$1,123.20
_	4. Quality Assurance	4										4	\$832.00
							<u></u>						
Q3	Construction Support	0	0	04	0	0	40	0	0	0	<u> 0</u>	<i>5</i> 0	S74046400
	I. Shop Drawings			6			40					46	\$5,694.00
	2. Requests for Information (RFIs)			6								6	\$1,014.00
714	3. Substitutions		s	2	· , .	10, 10	1000	348 T				2	\$338.00
7 3		t v •}t°g	ga geenela.			Noger Name (1997)			1 1 4 4 2 5 2 1 1 1 2				
	Man-Hours	44	110	138	78	450	308	329	0	0	0	1,457	
	Direct Salary Rate (See Note 1)	00.082	\$72.00	\$65.00	\$55.00	\$50.00	\$45,00	\$35.00	\$30.00	\$28.00	\$25.00		
	Multiplier (See Note 2)					2.	60						7
	TOTAL LABOR COST	\$9,152.00	\$20,592,00	\$23,322.00	\$11,154.00	\$58,500.00	\$36,036.00	\$29,939.00	ı				