

January 6, 2022

Mr. Nicholas Ross, P.E.
Municipal Traffic Engineer
City of Pittsburgh
Department of Mobility and Infrastructure
Room 301 City-County Building
414 Grant Street
Pittsburgh, Pennsylvania 15219

Subject: Central Business District Signals Project Phase 4 – BEC Project No. 02501
Revised Project Supplement 8 (PennDOT Supplement 9) – Construction Consultation Phase 4

Dear Mr. Ross:

As requested, Trans Associates (TA) has prepared a project supplement to provide construction consultation for Phase 4 of the Central Business District Signals Project. The following sections provide the detailed technical scope of work and fee considerations for the proposed services.

SCOPE OF WORK

The proposed work included in this supplement is to provide construction consultation for the construction of Phase 4 of the Central Business District (CBD) Signals Project. Phase 4 of the project shall include the total upgrade of the following eight (8) traffic signals:

1. Penn Avenue and 12th Street;
2. Penn Avenue and 16th Street;
3. Ross Street and Forbes Avenue;
4. Bedford Avenue and Washington Place;
5. Bedford Avenue and Crawford Street;
6. Centre Avenue and Crawford Street;
7. Second Avenue and Municipal Courts Drive; and
8. Second Avenue and FAMCO Garage.

TA will provide construction consultation for the installation of the aforementioned eight (8) signals. This consultation will include a maximum of thirty (30) field meetings to resolve or discuss any issues that may arise during construction. These field meetings may be the result of RFIs submitted by the contractor. It is assumed that TA will address and respond to a maximum of 60 RFIs. It is assumed that all shop drawings and catalog cut sheets will be reviewed and approved by the City.

TA will also attend progress control meetings throughout the construction of the project. It is assumed that the construction will last 24 months (2 winter shut downs, 2 months each), and two meetings will be held per month. For the purposes of this proposal, TA assumes attendance at 40 meetings.

This phase will include design-build items for up to 16 traffic signal support foundations. TA will provide review services for these foundations. Once the foundation designs are supplied by the contractor, TA will review the designs and provide comments and approval. The reviews will be conducted by Tri-State Design and Development. The deliverable from Tri-State will be their review comments and their subsequent approvals.

This phase will also include design-build items for up to 34 ADA ramps. TA will provide review services for the ramp designs, to ensure compatibility with signal support locations. The deliverables will be review comments and preliminary approval, with final approval to be provided by PennDOT District 11-0.

In addition to the field meetings, TA will also prepare as-built drawings of the completed traffic signals. These as-built drawings will reflect all field changes performed in construction. The as-built drawings will be submitted to you digitally and on 22" x 34" mylar.

FEE

The proposed fee for this supplement is detailed in the attached price proposal and totals \$138,312.15. This supplement results in a total project fee of \$2,419,451.35.

If you have any questions or comments on this matter, please do not hesitate to call.

Sincerely,



Cynthia A. Jampole, P.E.
Principal and CEO

CAJ:JAB:mz

Enclosures

cc: R. Asbahan, P.E. – CDR Maguire
S. Shadle, P.E. – CDR Maguire
File – pghpw00-18226/CBD Signals Ph 4 SDC Supplement 8

**Central Business District Signals Project
Construction Consultation Phase 4
Supplement 8 (PennDOT Supplement 9)
City of Pittsburgh, Allegheny County
1/6/2022**

Derivation of Straight Time Factor

Direct Payroll Portion	1.00
Overhead @ 182.752%	<u>1.82752</u>
Sub-total	2.82752
Fee (percent)	<u>0.0804</u>
Profit Portion	0.2273
Straight Time Factor	3.0548
Escalation	\$2,944.67
Specific Rate of Compensation	\$79,534.08
Direct Costs Other Than Payroll (Travel+Mylar+Parking)	\$2,313.60
Direct Costs by Others	
Tri-State	\$53,519.80
TOTAL ENGINEERING COST	\$138,312.15

Type of Price Proposal: Specific Rate Method of Payment

DBE % of Supplement 8 = 39%

ESCALATION

Assume NTP is provided to TA on November 1, 2022 and the project is completed by October 31, 2024.

Assumes a 0% increase in rates for 11/1/2022 to 12/31/2022

Assumes a 3% increase in rates for 1/1/2023 to 12/31/2023

Assumes a 6% increase in rates for 1/1/2024 to 10/31/2024

2 months @ 100% = 2.00

12 months @ 103% = 12.36

10 months @ 106% = 10.60

24.96 / 24 = 1.0400

Escalation = 4.00% x \$73,616.84 = \$2,944.67

Direct Costs Other Than Payroll

A. Travel (Auto) Project Site	70 trips @ 20 miles (total trip) = 1400 miles	
	1400 miles @ \$0.56	= \$784.00
B. Mylar	16 sheets (22"x34") @ \$1.35SF	= \$129.60
C. Parking	70 trips @ \$20 per trip	= \$1,400.00
Total Direct Costs		\$2,313.60

<u>Personnel Rates</u>		<u>Average Rate</u>	<u>Specific Rate</u>
Judy Bishop, P.E.	Engineering Manager	\$53.15	\$162.36
Margi Mancuso	Manager	\$45.38	\$138.61
Maria Zera	Admin. Assistant	\$23.80	\$72.70

Hour Assumptions

- A. Field Meetings/RFIs
 - a. Engineering Manager attends all 30 field meeting at 2 hours = 60 hours
 - b. Assume Engineering Manager addresses a maximum of 60 RFIs at 3 hours each = 180 hours (Includes research, response, downloading and uploading digital files to PPCC).
 - c. Engineering Manager reviews the response to the 60 RFIs at 0.5 hours each = 30 hours
 - d. Assume Admin. Asst. with transmitting and filing of RFIs and meeting minutes = 8 hours
- B. Construction Status Meetings
 - a. Engineering Manager attends all status meetings (40 meetings) at 2 hours each = 80 hours
- C. Design-Build ADA Review
 - a. Engineering Manager reviews 34 ADA ramp designs at 1 hour each = 34 hours
- D. As-Built Plans
 - a. Engineering Manager reviews each as-built plan (16 plans) at 1 hours each = 16 hours
 - b. Engineering Manager prepares as-built plans (16 plans) at 4 hours each = 64 hours
 - c. Assume Admin. Asst. mailing, copying and filing as-built plans (16 plans) at .25 hours each = 4 hours
- E. Management
 - a. Assume management hours (Manager) is 5% of total hours = 24 hours

2022 Payrates w 182.752 OH			282.752%		Straight Time
EMPLOYEE	TITLE	2022 Rate		Average Rates	3.0548
			182.752%		
Zera, Maria	Admin. Assistant	23.80	\$ 67.29	23.8	\$ 72.70
Grego, Nicholas	Assoc. Analyst	32.00	\$ 90.48		
Hazel, Thomas	Assoc. Analyst	28.00	\$ 79.17		
Kine, Anne	Assoc. Analyst	35.50	\$ 100.38		
Miller, Joni L.	Assoc. Analyst	38.50	\$ 108.86	32.75	\$ 100.04
Prusack, Michael A.	Assoc. Analyst	29.50	\$ 83.41		
Stehle, Zackery	Assoc. Analyst	33.00	\$ 93.31		
Bishop, Judy	Eng. Manager	53.15	\$ 150.28	53.15	\$ 162.36
Ke, Thomas (P/T)	Field Technician	21.25	\$ 60.08	21.25	\$ 64.91
Gamelier, Liz	Manager	42.05	\$ 118.90		
Mancuso, Margi	Manager	48.70	\$ 137.70	45.38	\$ 138.61
Olesniewicz, Terence	Principal/ Sr. Manager	58.00	\$ 164.00		
Eich, Cliff	Principal/ Sr. Manager	47.00	\$ 132.89		
Clear, Doyle (P/T)	Principal/ Sr. Manager	80.00	\$ 226.20		
Goetz, Robert	Principal/ Sr. Manager	72.00	\$ 203.58	65.22	\$ 199.22
Jampole, Cindy	Principal/ Sr. Manager	75.00	\$ 212.06		
Schaefer, Nicholas J.	Principal/ Sr. Manager	59.30	\$ 167.67		
Addei, Simon(P/T)	Sr Engineer	41.00	\$ 115.93		
Lukacs, John A (P/T)	Sr Engineer	46.00	\$ 130.07		
Shaffer, Nathaniel	Sr Engineer	37.75	\$ 106.74	39.94	\$ 122.00
Baltz, Justin	Sr. Engineer	35.00	\$ 98.96		
Supertzi, Dave	Sr. Survey Tech	31.00	\$ 87.65	31.00	\$ 94.70
Simonetti, Frank	Sr. Technician	31.50	\$ 89.07	31.50	\$ 96.23
Field Enumerators		15.00	\$ 42.41	15.00	\$ 45.82



MARGARET B. MANCUSO

OVERHEAD RATE**Trans Associates Engineering Consultants, Inc. - 000209****Qualifications Package**

Type: Corporation

DBE Type: SBE:

Fiscal Year End: 12/31/2020
 Report Submitted: 06/29/2021
 Premium Pay: Yes

Status: Approved
 Expiration: 06/30/2022

Dual Overhead: No
 Audited: Yes
 Overhead: 182.752%

Overtime: 0.00%
 Hazardous: 0.00%

Comments: The revisions requested have been made. General Ledger detail has been attached regarding the Software Support Subscriptions (page 68).

Attachments: [2020 PennDOT Overhead Sub Package - Revised 2021-06-29.pdf](#)

Workflow

Status	Name	Disposition	Date/Time
Draft	Margaret B Mancuso/PennDOT BP-000209	Submit	06/29/2021 09:16:03 AM
Pending	Scot Wohlin/PennDOT	Approve	07/09/2021 08:34:06 AM

This rate is subject to audit verification by the Bureau of Fiscal Management. Our acceptance of this overhead rate does not extend beyond contracts with the Pennsylvania Department of Transportation. Any other entity contracting with your firm is responsible for determining the acceptability of your overhead statement. Proposals for new agreements that are Federally-funded should use the above stated rate. If you are party to an agreement that requires you to develop a FAR rate and to submit a request for a supplement to adjust the Agreement amount, please make your supplemental agreement request through the appropriate Department Project Manager, using the above stated rate. The terms and conditions of all existing Agreements remain in full force and effect. An overhead rate for billing purposes must be developed accordingly.

Audit Information

Created By	Created On	Modified By	Modified On
Margaret B Mancuso/PennDOT BP-000209	06/29/2021 09:16:03 AM	Scot Wohlin/PennDOT	07/09/2021 08:34:06 AM

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Mon Jul 12 06:47:43 EDT 2021
 Official ECMS Date/Time



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MARGARET B. MANCUSO

CONSULTANT PROFIT MAINTENANCE

Trans Associates Engineering Consultants, Inc. - 000209

Qualifications Package

Type: Corporation

DBE Type: SBE:

<p>Start Date: 10/01/2021</p> <p>End Date: 09/30/2022</p> <table border="1"> <thead> <tr> <th colspan="2"><u>Profit</u></th> </tr> <tr> <th>Class</th> <th>Percent</th> </tr> </thead> <tbody> <tr> <td>A:</td> <td>10.04%</td> </tr> <tr> <td>B:</td> <td>8.04%</td> </tr> <tr> <td>C:</td> <td>7.04%</td> </tr> <tr> <td>D:</td> <td>6.04%</td> </tr> <tr> <td>E:</td> <td>6.75%</td> </tr> </tbody> </table>	<u>Profit</u>		Class	Percent	A:	10.04%	B:	8.04%	C:	7.04%	D:	6.04%	E:	6.75%
<u>Profit</u>														
Class	Percent													
A:	10.04%													
B:	8.04%													
C:	7.04%													
D:	6.04%													
E:	6.75%													

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Fri Dec 10 06:05:36 EST 2021
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**DELIVERABLE COST ESTIMATE
ESTIMATE SUMMARY**

Allegheny County CBD Signals Project Phase 4, Services during construction-MPMS 63378		DELIVERABLES							Total Direct Costs	
		Vellums	Deeds	Bond Prints 22"x34"	Photocopies 8 1/2"x 11"	Mileage	Parking (each)	Off Duty Policeman (per hour)		Standard Mail
Construction Phase Services										
Task	Description/copies									
Construction Services										
0	Design Review			64.0	400.0	300.0	16.0			
Construction Phase Seervices										
TOTAL		0.0	0.0	64.0	400.0	300.0	16.0	0.0	0.0	
RATE		\$3.00		\$ 0.60	\$ 0.10	\$ 0.560	\$ 20.00	\$ 45.50	\$ 0.46	
TOTAL COSTS		\$ -	\$ -	\$ 38.40	\$ 40.00	\$ 168.00	\$ 320.00	\$ -	\$ -	\$ 566.40



**PERSONNEL
ESTIMATE SUMMARY
Central Business District Signals Project
Allegheny County**

Name	Classification	Approved Rates		Specific Rate Factor <u>2.4768</u>	Specific Rate of Compensation
		2017	2021		
Hirro Patel, PE	Principal	\$78.50		<u>2.4768</u>	\$194.43
Raymond Hoffman, PE	Project Manager	\$68.00		<u>2.4768</u>	\$168.42
John Tkacs, PE	Structural Engineer	\$48.60		<u>2.4768</u>	\$120.37

Derivation of Specific Rate

Actual Direct Payroll		1.0000
Overhead (126.588% (2020-2021))		<u>1.2659</u>
Subtotal		2.2659
Profit 9.31%		<u>0.2110</u>
Total		<u>2.4768</u>

Specific Rate Factor 2.4768



Central Business District Signals Project

Estimation of Manhours

Services during construction

Review of special foundation designs
24 hrs per each design X 16 foundations

384 MHRS



**OVERHEAD RATE**

Tri-State Design and Development, Inc. - 000173

Qualifications Package

Type: Corporation

DBE Type: DBE SBE: Y

Fiscal Year End: 12/31/2020
 Report Submitted: 09/19/2021
 Premium Pay: No

Status: Approved
 Expiration: 06/30/2022

Dual Overhead: Yes
 Audited: Yes
 Office Overhead: 126.588%
 Field Overhead: 113.068%

Overtime: 50.00%
 Hazardous: 20.00%

Comments:

 Attachments: [TSDD Rev. OH-2020, 9-19-21.pdf](#)
Workflow

Status	Name	Disposition	Date/Time
Draft	Hiroo K Patel P.E./PennDOT BP-000173	Submit	09/19/2021 05:39:06 PM
Pending	Frank D Mawson/PennDOT	Approve	09/22/2021 11:18:49 AM

The overhead rate submission and accompanying schedule notes adequately discloses their accounting for Payroll Protection Program (PPP) loan forgiveness amount. This rate is subject to audit verification by the Bureau of Fiscal Management. Our acceptance of this overhead rate does not extend beyond contracts with the Pennsylvania Department of Transportation. Any other entity contracting with your firm is responsible for determining the acceptability of your overhead statement. Proposals for new agreements that are Federally-funded should use the above stated rate. If you are party to an agreement that requires you to develop a FAR rate and to submit a request for a supplement to adjust the Agreement amount, please make your supplemental agreement request through the appropriate Department Project Manager, using the above stated rate. The terms and conditions of all existing Agreements remain in full force and effect. An overhead rate for billing purposes must be developed accordingly.

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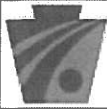
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HIROO K. PATEL P.E.

CONSULTANT PROFIT MAINTENANCE

Tri-State Design and Development, Inc. - 000173

Qualifications Package

Type: Corporation

DBE Type: DBE SBE: Y

Start Date: 10/01/2021

End Date: 09/30/2022

Profit

Class Percent

A: 11.31%

B: 9.31%

C: 8.31%

D: 7.31%

E: 8.77%

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Session size: 0.1k

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