

TranSystems

1475 East Woodfield Road Suite 600 Schaumburg, IL 60173 Tel 847.605.9600 Fax 847.463.0565

www.transystems.com

October 31, 2022

Mr. Andy Hynes, P.E.
City Traffic Engineer / Transportation, Engineering and Development Business Group
City of Naperville
400 South Eagle Street
P.O. Box 3020
Naperville, IL 60566-7020

Reference: North Aurora Road Underpass

From Pennsbury Lane to Frontenac Road

DuPage County P.O. No. 163096 RFP No. 16-135 SUPPLEMENT No. 5

Dear Mr. Hynes,

We are pleased to submit for your review and approval Supplement No. 5 for the North Aurora Road Underpass project. We have included the following items:

- Exhibit A Scope of Engineering Services
- Exhibit B Cost Estimate of Consultant Services
- Exhibit C Cost Estimate of Subconsultant Services

This supplement includes work by TranSystems and Jorgensen & Associates to complete the BNSF Access License Agreement. Pursuant to BNSF's request, Jorgensen prepared a legal description for the contractor access route path through the BSNF Eola Yard with assistance from TranSystems. This will be added to Exhibit A in the Access License Agreement by BNSF. The cost for completing this work in Supplement No. 5 is \$3,533.

If you have any questions or require additional information, please call me at (847) 407-5300.

Very truly yours,

Matthew J. Smith, P.E.

enclosures



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EXHIBIT A – Scope of Engineering Services - Supplement No. 5 North Aurora Road Underpass at CN Railroad (Pennsbury Lane to Frontenac Road) Section No. 06-00133-00-BR

This supplement consists of Phase II engineering services to perform additional work to complete the North Aurora Road Underpass at CN Railroad project as described in detail below. The following tasks are included to complete this work:

1.0 Additional Project Coordination (8 Hours)

Coordination required with BNSF Railway Public Projects Manager and Jorgensen & Associates to delineate the contractor access route and submit request for railroad valuation maps from BNSF's vendor.

2.0 ROW Acquisition and Survey

Legal Descriptions by **Jorgensen & Associates** for the BNSF License Area to include the contractor access route through BNSF Eola Yard as requested by BNSF to finalize the Access License Agreement as detailed in the attached proposal in Exhibit C.

EXHIBIT B COST ESTIMATE OF CONSULTANT SERVICES



Local Public Agency	County	Section Number
City of Naperville	DuPage	06-00133-00-BR
Consultant (Firm) Name	Prepared By	Date

PAYROLL ESCALATION TABLE

CONTRACT TERM	1	MONTHS	OVERHEAD RATE	143.97%
START DATE	10/1/2022		COMPLEXITY FACTOR	0
RAISE DATE	4/1/2023		% OF RAISE	2.00%
END DATE	10/31/2022			

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	10/1/2022	10/31/2022	1	100.00%

The total escalation = 0.00%

Local Public Agency	County	Section Number
City of Naperville	DuPage	06-00133-00-BR

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	0.00%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

IDOT	
PAYROLL RATES	CALCULATED RATE
ON FILE	
\$78.00	\$78.00
\$78.00	\$78.00
\$68.93	\$68.93
\$48.86	\$48.86
\$36.58	\$36.58
\$41.14	\$41.14
	\$20.29
\$27.48	\$27.48
	PAYROLL RATES ON FILE \$78.00 \$78.00 \$68.93 \$48.86 \$36.58

BLR 05514 (Rev. 04/30/21) Payroll Rates

Printed 10/27/2022 1:13 PM

Local Public Agency	County	Section Number
City of Naperville	DuPage	06-00133-00-BR

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE	143.97%	COMPLEXITY FACTOR	
		-	

TASK	STAFF HOURS	PAYROLL	OVERHEAD & DIRECT COSTS FRINGE BENEFITS		FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Additional Project Coordination	8	551	794		182		1,527	43.22%
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
		-	-		-		-	
Jorgensen and Associates		-	-		-	2,006	2,006	56.78%
		-	-		-		-	
		-	-		-		-	
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Subconsultant DL					0		-	
TOTALS	8	551	794	-	182	2,006	3,533	100.00%

1,345

Local Public Agency	County	Section Number
City of Naperville	DuPage	06-00133-00-BR

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1

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PAYROLL	41/0	TOTAL DDG				ditional Pro													
PATRULL	AVG HOURLY	TOTAL PRO		\A/artal		oordinatio %		Hauma	%	Martal	Harres	%	Montal	Haura	0/	\A/artal	Haura	%	Markel
CLASSIFICATION	RATES	nours	% Part.	Wgtd Avg	Hours	Part.	Wgtd Avg	Hours	Part.	Avg	Hours	Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	Part.	Wgtd Avg
Engineer 5 (E5)	78.00	0.0	1 art.	Avg		ı art.	Avg		ı aıt.	Avg		ı art.	Avg		ı aıt.	Avg		ı aıt.	Avg
Engineer 4 (E4)	78.00	0.0																	
Engineer 3 (E3)	68.93	8.0	100.00%	68.93	8	100.00%	68.93												
Engineer 2 (E2)	48.86	0.0																	
Engineer 1 (E1)	36.58	0.0																	
Technician 3 (T3)	41.14	0.0																	
Technician 1 (T1)	20.29	0.0																	
Administrative 1 (A1)	27.48	0.0																	
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TOTALS		8.0	100%	\$68.93	8.0	100.00%	\$68.93	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

EXHIBIT C COST ESTIMATE OF SUBCONSULTANT SERVICES



October 12, 2022

Mr. Mathew J. Smith, P.E. TranSystems Corporation 1475 East Woodfield Road Suite 600 Schaumburg, Illinois 60173-5440

Re: City of Naperville - North Aurora Road Survey Proposal

Dear Mr. Smith:

Enclosed, please find our proposal to prepare the BNSF Railway access license parcel legal description for the referenced project. Our proposal is based on your email of October 7th and our telephone conversation.

Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,

Jorgensen & Associates, Inc.

Christian H. Jorgensen, P.L.S.

President

CHJ/pt

Enclosures

E:\Transystems\Naperville\North Aurora Rd\Additional\4th Addition\Letter

Route: North Aurora Road Section: @ Frontenac Court

County: DuPage

Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	% of Direct Productive <u>Payroll</u>
Federal Insurance Contributions Act	11.81%
State Unemployment Compensation	0.47%
Federal Unemployment Compensation	0.11%
Workmen's Compensation Insurance	0.95%
Paid Holidays, Vacation, Sick Leave, Personal Leave	9.83%
Bonus	11.78%
Pension	0.98%
Group Insurance	<u>37.83%</u>
Total Payroll Burden & Fringe Costs	73.76%

Route: North Aurora Road Section: @ Frontenac Court

County: DuPage

Job No.:

Exhibit "B"

Overhead and Indirect Costs

	% of Direct Productive <u>Payroll</u>
Business Insurance	4.72%
Depreciation	
Indirect wages and salaries	42.74%
Reproductive and printing costs	0.23%
Office Supplies	2.99%
Computer Costs	2.19%
Professional Fees	1.94%
Telephone	1.89%
Fees, license & dues	0.88%
Repairs and maintenance	1.77%
Business space rent	4.94%
Facilities - capital	0.72%
Travel - Meals	0.26%
Survey Supplies	2.60%
Automobile/travel expense	0.41%
Miscellaneous Expense	
State Income Tax	
Postage	0.20%
Educational & Professional Registrations	0.23%
Gain on Sale of Asset	(1.33%)
Total Overhead	80.81%

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME PRIME/SUPPLEMENT	Jorgensen & Associates, Inc. Prime		DATE 10/12/22 PTB NO.	- -	
	CONTRACT TERM START DATE RAISE DATE	10/12/2022	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	3.00%	
		ESCALATION PER YEAR			
	10/12/2022 - 4/12/2023	4/13/2023 - 10/12/2023			
	<u>6</u> 12	<u>6</u> 12			
	= 50.00% = 1.0150 The total escalation for this	51.50% s project would be:	1.50%		

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Jorgensen & Associates DATE	10/12/22
Prime	

ESCALATION FACTOR

1.50%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Supervisor, P.L.S.	\$45.00	\$45.68
Cadd Supervisor	\$34.50	\$35.02
•	•	\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
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		\$0.00
		\$0.00

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

FIRM	Jorgensen & Associates, Inc.			DATE	10/12/22
PSB		OVERHEAD RATE	1.5457		
PRIME/SUPPLEMENT	Prime	COMPLEXITY FACTOR	0		

DBE DROP BOX	ITEM	MANHOURS	PAYROLL	OVERHEAD & FRINGE BENF	IN-HOUSE DIRECT COSTS	FIXED FEE	Outside Direct Costs	SERVICES BY OTHERS	DBE TOTAL	TOTAL	% OF GRAND TOTAL
DOX		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(B-G)	TOTAL
	(3) Project Survey Plan	1	35.02	54.13	(-)	12.93	(- /	(0)	(,	102.07	5.09%
	(4) First Submittal Plat of Hwys. & Descriptions	3	137.03	211.80		50.58				399.40	19.91%
	(6) Survey (Office)	8	365.40	564.80		134.88				1,065.08	53.10%
	(7) Final Submittal Plat of Hwys. & Descriptions	1	45.68	70.60		16.86				133.13	6.64%
	(8) QC/QA	3	105.05	162.38		38.78				306.21	15.27%
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	16	688.17	1,063.70	0.00		0.00	0.00	0.00	2,005.90	100.00%

DBE 0.00%

AVERAGE HOURLY PROJECT RATES

FIRM	Jorgensen & Associates, Inc.					
PSB		DATE	10/12/22			
PRIME/SUPPLEMENT	Prime					
		SHEET		1	OF	1

PAYROLL	AVG	TOTAL PRO	JECT RATI	ES	(3) Proj	ect Surve	y Plan	(4) First Submi	ttal Plat of Hwys.	& Descriptions	(6) Sur	vey (Office)	1	(7) Final Submit	tal Plat of Hwys	s. & Descriptions	(8) QC/	QA	
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Supervisor, P.L.S.	45.68	12	75.00%	34.26				3	100.00%	45.68	8	100.00%	45.68	1	100.00%	45.68			ĺ
Cadd Supervisor	35.02	4	25.00%	8.75	1	100.00%	35.02										3	100.00%	35.02
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TOTALS		16	100%	\$43.01	1	100.00%	\$35.02	3	100%	\$45.68	8	100%	\$45.68	1	100%	\$45.68	3	100%	\$35.02

Route: North Aurora Road Section: @ Frontenac Court

County: DuPage

Job No.:

Manhour Breakdown Land Acquisition Estimate

Length of Project

			BNSF Railway	$= \pm 2,050$	$' = \pm 0.388 \text{ mile}$	
			Total Length	$= \pm 2,050$	$' = \pm 0.388$ mile	
1 Parc	el:	1 Access Lice	nse			
1.		rvey Phase rch available re	cords			
	a.	Title Co.)		
	b.	Recorder's Of	fice)		
	c.	I.D.O.T.)		
	d.	Utilities)		
	e.	Private Surve	yors)		
	f.	Land Owners)		0 MH
					Sub-total Item # 1	0 MH
2.	Recon	naissance Surv	ey			0 MH
3.	Projec	t Survey Plan			\pm 2,640'/sheet-2 sheets	
	a.	Alignment inf	o)		
	b.	Existing R.O.	W. info)		
	c.	Land line data	1)		
	d.	Subdivision d	ata)	1 hour/sheet x 1 =	1 MH
					Sub-total Item #3	1 MH

4.	First S	ubmittal Plat of Highways & Descriptions		
	a.	Ownership info		
	b.	Total holding boundaries)		
	c.	Total holding area listing)		0 MH
	d.	Private survey info		
	e.	Deed calculated closures)		
	f.	Layout and drafting		0 MH
		Revise existing sheets		0 MH
		Parcel Exhibits		0 MH
	g.	Legal descriptions 1 description		3 MH
			Sub-total Item #4	3 MH
5.	Survey	(Field)		
	a.	Monument center line alignments		0 MH
	b.	Measure existing R.O.W. & property lines		0 MH
	c.	Appraisal topography		0 MH
	d.	Monument Proposed right of way		0 MH
			Sub-total Item #5	0 MH
6.	Survey	(Office)		
	a.	Compute traverse		0 MH
	b.	Compute existing R.O.W. & property lines		0 MH
	c.	Compute center line alignments		0 MH
	d.	Compute proposed access license		8 MH
			Sub-total Item #6	8 MH

7. Final Submittal Plat of Highways & Descriptions

	a.	Final drafting		0 MH
	b.	Final description 1 description		1 MH
	c.	Assembly of final papers		0 MH
	d.	Deliver final papers to Transystems' Office		<u>0 MH</u>
			Sub-total Item #7	1 MH
8.	QC/Q	A		
	a.	Check preliminary plats & parcel exhibits		0 MH
	b.	Check preliminary legal descriptions 1 legal description		2 MH
	c.	Check final plats & parcel exhibits		0 MH
	d.	Check final legal descriptions 1 legal description		1 <u>MH</u>
			Total All Items	16 MH