



# Naperville

CITY COUNCIL

4-18-06

AGENDA ITEM

H106-b

## COUNCIL AGENDA ITEM SUMMARY SHEET

**TITLE:** Recommend award of RFP 06-107, North Aurora Road Underpass at the EJ&E RR Improvements

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**CITY COUNCIL AGENDA DATE:** 04/18/06

**SYNOPSIS:** Approve the award of North Aurora Road Underpass at the EJ&E RR Improvements.

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### COUNCIL ACTION PREVIOUSLY TAKEN:

Date of Action \_\_\_\_\_

Item No. \_\_\_\_\_

**TYPE OF VOTE REQUIRED:** Simple Majority

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### COUNCIL ACTION REQUESTED:

- A. Award Contract 06-107, North Aurora Road Underpass at the EJ&E RR Improvements to TranSystems Corporation, for an amount not to exceed \$609,947.54.
  - B. Adopt a Resolution approving an intergovernmental agreement with the City of Aurora and Naperville Township.
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**Submitted by:** Douglas A. Krieger  
Name

Finance  
Department

### AGENDA ITEM NOTES

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**CITY OF NAPERVILLE  
 CONTRACT AWARD  
 PROCUREMENT NUMBER 06-107**

**RECOMMENDED AWARD**

**Requesting Department:** Transportation, Engineering & Development Business Group  
**Procurement Name:** North Aurora Road Underpass at the EJ&E RR Improvements  
**Recommended Vendor:** TranSystems Corporation  
**Amount of Award:** \$609,947.54

CIP # BR005  Budgeted Account 301-4710-431.35-03  
 Budgeted Amount \$610,000

**PROCUREMENT BACKGROUND**

Tribune  Web Site

Advertisement Date: November 11, 2005 Notices Sent: 266  
 Opening Date: December 8, 2005 Planholders: 56  
 Proposals Received: 18

**SELECTION PROCESS**

Proposals were received from the following firms:

A Epstein & Sons, Chicago, IL	Knight Engineering, Chicago, IL
Alfred Benesch & Co, Chicago, IL	K-Plus Engineering, Naperville, IL
American Consulting Eng., Chicago, IL	Patrick Engineering, Lisle, IL
Bollinger Lach & Assoc., Oak Brook, IL	Smith Engineering, McHenry, IL
Bowman Barrett & Assoc., Chicago, IL	T Y Lin Internat'l, Chicago, IL
Chris B Burke Engineering, Rosemont, IL	Teng & Assoc, Chicago, IL
CTE, Chicago, IL	TranSystems Corp, Schaumburg, IL
Hanson Professional Svcs, Oak Brook, IL	URS Corporation, Rolling Meadows, IL
HNTB Corporation, Chicago, IL	V3 Companies, LTD, Woodridge, IL

A Consultant Selection Committee consisting of staff from TED, the City of Aurora, and Naperville Township reviewed and scored the proposals, based on the criteria/weights stated in the RFP document:

- Experience with Phase I design studies of arterial roadways/bridges (35%)
- Experience with structures, highway and railroad (20%)
- Experience with coordination with EJ&E/BNSF Railroads, Utilities, IDOT, FHWA, ICC and local agencies (25%)
- Qualifications of the Project Team and its ability to meet the project schedule (20%)

Since federal funding is anticipated for later stages of the project, federal Quality Based Selection procedures were followed, which mandate that after the final scoring is completed, pricing is negotiated with the top-ranked firm. The five firms with the highest average proposal scores were short-listed and invited to an interview with the Consultant Selection Committee. Following the interviews, the consultants were again scored, based on the same criteria stated before. The ranking of the five is shown in the table below:

NAME OF CONSULTANT	Average Score	Rank
TranSystems Corporation	90.2	1
URS Corporation	87.0	2
Hanson Professional Services	77.0	3
Smith Engineering	66.0	4
Bollinger, Lach & Associates, Inc.	65.2	5

City staff met with representatives of the highest-ranking firm, TranSystems Corporation, in order to more fully discuss the project requirements, the scope of services, and to seek detailed hours and costs to perform the engineering services. City of Aurora and Naperville Township staff reviewed this information. Negotiations on the scope of services, man-hours and costs took place between February and March 2006. The consultant's original cost proposal for the preliminary engineering services contract was \$669,935.34. Through negotiation the cost of the contract was reduced by \$59,987.80 or 9.0%. City of Naperville, City of Aurora, and Naperville Township staff have reviewed the consultant's proposal and find that the hours and cost are appropriate for the required scope of work.

Staff recommends that this project be funded by the FY05/06 CIP to initiate the preliminary engineering phase of the project in the amount of \$609,947.54. The City of Aurora and Naperville Township have verbally agreed to each fund one third of the cost. An intergovernmental agreement with the City of Aurora and Naperville Township is included with this recommendation. Work on this project will not commence until the intergovernmental agreement is fully executed.

**DESCRIPTION**

Background:

In July 2004, URS Corporation completed a Feasibility Study for the Cities of Naperville and Aurora to evaluate the improvement of four new or existing railroad crossings located near the shared municipal boundary. The improvements evaluated would make travel in and between the two communities easier, preserve and improve the quality of life for their residents, enhance future growth of the surrounding areas, and promote safety.

Based upon the results of the Feasibility Study, the North Aurora Road and Elgin, Joliet, and Eastern (EJ&E) Railroad crossing was identified as the highest priority location for improvement. There is a current strong need to improve the existing underpass on North Aurora Road because of the traffic bottleneck that exists, and the unsafe conditions for pedestrians and bicyclists. The narrow two-lane underpass of rural pavement cross section (no curbs or sidewalks with adjacent drainage ditches) is inconsistent with the characteristics of the surrounding area that continues to develop. It is also inconsistent with the improved five lane pavement cross section of the approach roadways on both the Aurora side to the west (beginning at Pennsbury Lane) and Naperville side to the east (beginning at Weston Ridge Drive). This location would also be the easiest, fastest, and least controversial one to permit and implement due to limited right-of-way requirements, limited environmental impacts, and compact project limits. Staging this project to maintain highway traffic during construction will become more and more difficult as time passes and highway traffic volume continues to increase.

On March 1, 2005, Council adopted Resolution 05-09 supporting the initiation of a preliminary engineering study to replace and widen the existing underpass at this location. The City of Aurora and Naperville Township passed similar resolutions in the Spring of 2005. Please note that all three agencies have jurisdiction of a portion of North Aurora Road between Frontenac Road and Eola Road. The City of Naperville has jurisdiction of North Aurora Road from Frontenac Road to the east right-of-way line of the EJ&E Railroad. Naperville Township has jurisdiction of North Aurora Road from the east right-of-way line of the EJ&E railroad to approximately 1,000 feet west of the EJ&E Railroad tracks. The City of Aurora has jurisdiction of North Aurora Road from approximately 1,000 feet west of the EJ&E Railroad tracks to Eola Road.

#### Preliminary Engineering Study

The scope of work includes field survey and data collection, soils investigation, traffic and accident analysis, preliminary highway design studies, preliminary bridge design studies, preliminary drainage studies, preferred improvement plan development, public involvement plan, and preparation of a project development report. The work will involve extensive coordination with the EJ&E Railroad, the Burlington Northern Santa Fe (BNSF) Railroad (which shares a track on this bridge), the Illinois Department of Transportation, and numerous utility companies.

Note that preliminary engineering for the remaining three lane portion of North Aurora Road from Frontenac Drive to Weston Ridge Drive is programmed as the CIP No. SC033 and is scheduled to begin in FY07-08. It is anticipated that construction of both the improvements to the railroad underpass (BR005) and adjacent roadway widening (SC033) will occur simultaneously.

In order to proceed with this project, the City needs to select a consultant for the preliminary engineering services, enter into written agreement with the City of Aurora and Naperville Township, and adopt an associated resolution appropriating local funding of the project. The attached information relates to the award of an engineering contract, and the adoption of a resolution executing the intergovernmental agreement with the City of Aurora and Naperville Township. The City's legal staff has reviewed and pre-approved the Intergovernmental Agreement and Resolution.

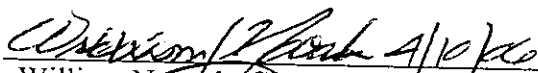
TranSystems Corporation possesses the professional skill to perform the engineering of the roadway, railroad, and bridgework elements of this project. They have successfully performed this kind of work on numerous projects using the same team of engineers that they have proposed. Most recently, TranSystems successfully completed the construction of improvements to Diehl Road between Country Club Boulevard and Eola Road. The negotiation process has served to match the hours and costs with the detailed scope of the proposed services.


The Selection Committee recommends award of RFP 06-107, Preliminary Engineering - North Aurora Road and EJ&E Railroad Crossing Improvements, to TranSystems Corporation for an amount of \$609,947.54.

**EXHIBITS**

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- A Detailed Scoring
  - B CIP Page

**SUBMITTED BY:**

  
 William Novack, City Engineer      Date  
 Engineering Team Leader, TED

  
 Michael E. Bevis, CPPO, C.P.M.      Date  
 Chief Procurement Officer

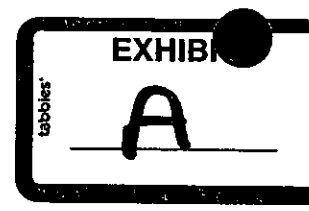
**RFQ SUBMITTAL SCORE SUMMARY FORM**  
**RFQ# 06-107: Consultant Engineering Services**  
**PHASE I - HIGHWAY-RAILROAD CROSSING IMPROVEMENT AT NORTH AURORA ROAD AND THE EJ&E RAILROAD**

**INITIAL SCORING**

NAME OF CONSULTANT	Evaluator #1	Evaluator #2	Evaluator #3	Evaluator #4	Evaluator #5	Evaluator #6	Evaluator #7	Evaluator #8	Evaluator #9	TOTAL POINTS	OVERALL RANKING
American Consulting Engineers LLC	80	76	36	89	91	408	11				
A Epstein and Sons	38	73	50	41	75	372	16				
Alfred Benesch & Company	71	83	94	86	79	476	6				
Bollinger, Lach & Associates, Inc.	81	87	100	69	88	485	3				
Bowman Barrent & Associates	82	82	26	100	87	425	9				
Christopher B. Burke Engineering	78	80	75	33	84	423	10				
CTE	74	74	59	58	95	442	8				
Hanson Professional Services	89	74	95	62	89	489	2				
HNTB Corporation	90	78	75	64	81	463	7				
Knight Partners	46	79	31	60	74	360	18				
K-Plus Engineering Ltd	40	67	80	45	61	371	17				
Patrick Engineering Inc	47	84	50	39	86	389	15				
Smith Engineering	83	92	74	43	95	479	5				
Teng & Associates Inc	50	74	70	52	84	400	13				
TransSystems Corporation	88	85	100	83	95	540	1				
TY Lin International	84	85	50	44	59	407	12				
URS Corporation	96	84	59	62	89	480	4				
V3 Companies, Ltd	73	89	54	41	50	393	14				

**FINAL SCORING**

NAME OF CONSULTANT	Evaluator #1	Evaluator #2	Evaluator #3	Evaluator #4	Evaluator #5	Evaluator #6	Evaluator #7	Evaluator #8	Evaluator #9	TOTAL POINTS	Average Score
Bollinger, Lach & Associates, Inc.	60	69	71	39	87	391	65.2				
Hanson Professional Services	77	75	89	76	95	462	77.0				
Smith Engineering	70	55	50	51	90	396	66.0				
TransSystems Corporation	88	89	91	90	98	541	90.2				
URS Corporation	86	94	80	84	98	522	87.0				



**CITY COUNCIL**  
**APR 18 2006**  
**AGENDA ITEM #109**

**Project Number:** BR005 **Project Title:** North Aurora Road Underpass at the EJ&E Railroad

**Department Name:** Transportation & Engineering **CIP Status:** Changed **Category Code:** A **WF Number**

**Project Purpose**

This project supports the implementation of the Road Improvement Plan and Coordinated Roadway Improvement component of the Comprehensive Transportation Plan. **FUNCTION(S):** Reduce Congestion, Safety, and Bicycle and Pedestrian.

**Criteria**

Coordination, Funding, Investment, Need

**Project Narrative**

This project will involve the widening of the existing railroad bridge in order to allow a wider roadway beneath it. The road will be expanded to a four lane cross-section. This is a joint project with the City of Aurora and is identified in the boundary agreement. **NOTE:** The project timeline has been moved up to facilitate coordination with the extension of North Aurora Road (Indian Trail Road) by the City of Aurora.

**External Funding Sources Available**

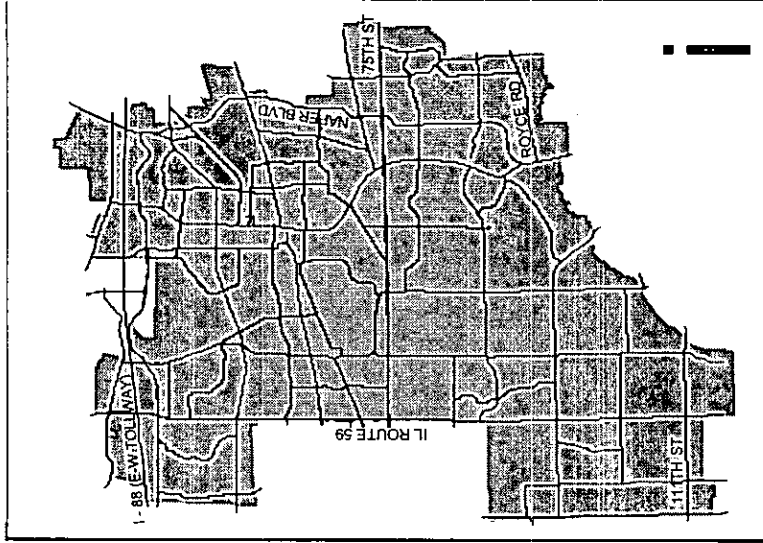
It is anticipated that half of the cost of this project will be paid for by the City of Aurora. The availability of federal or railroad funds will also be investigated.

**Projected Timetable**

Preliminary Engineering in FY05-06. Design Engineering and Construction will be programmed depending upon the findings of the Preliminary Engineering.

**Impact on Operating Budget**

The EJ&E will maintain the bridge superstructure. The City of Naperville will be responsible for maintaining the substructure.



**Project Cost Summary**

Expense Category	FY05-06	FY06-07	FY07-08	FY08-09	FY09-10	Total CIP
Engineering	610,000	0	0	0	0	610,000
Subtotal	610,000	0	0	0	0	610,000
Prior Year(s) Expenditures						0
Total Project Cost						610,000

**Funding Source Summary**

Funding Source	FY05-06	FY06-07	FY07-08	FY08-09	FY09-10	Total Source
G	0	0	0	0	0	305,000
IC	0	0	0	0	0	305,000
Subtotal	0	0	0	0	0	610,000
Prior Year(s) Expenditures						0
Total All Sources						610,000



**CITY COUNCIL** APR 18 2006  
**AGENDA ITEM** H 10a



# Naperville

## CITY COUNCIL AGENDA ITEM

**SUBJECT:** Second Amendment to the Intergovernmental Agreement for North Aurora Underpass Improvements and Award of Procurement 16-135 for Design Engineering Services

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**TYPE OF VOTE:** Simple Majority

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**ACTION REQUESTED:**

- A. Adopt a resolution approving the Second Amendment to the Intergovernmental Agreement between the City of Naperville, the City of Aurora and the Naperville Township Road District for design engineering for the North Aurora Road underpass improvements.
  - B. Approve the Award of Procurement 16-135 for Design Engineering Services for the North Aurora Road Underpass, to TranSystems Corporation for an amount not to exceed \$1,966,526.35.
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**BOARD/COMMISSION REVIEW:**

N/A

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**COUNCIL ACTION PREVIOUSLY TAKEN:**

Date	Item No.	Action
4/18/2006	H.10b	Approved the Intergovernmental Agreement between the City of Naperville, the City of Aurora and the Naperville Township Road District for design engineering for the North Aurora Road underpass improvements.
4/18/2006	H.10a	Approved RFP 06-107, Preliminary Engineering Services for the North Aurora Road underpass, to TranSystems Corporation

**DEPARTMENT:** Transportation Engineering and Development (TED) Business Group  
Finance Department

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**SUBMITTED BY:** William Novack, TED Director  
Rachel Mayer, Finance Director

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**BACKGROUND:**

On March 1, 2005, the Naperville Council adopted Resolution 05-09 to support the initiation of engineering to replace and widen the existing underpass at the EJ&E railroad (currently the Canadian National Railroad). The City of Aurora and Naperville Township passed similar resolutions in Spring 2005. All three agencies have jurisdiction of a portion of North Aurora Road between Frontenac Road and Eola Road. The City of Naperville maintains jurisdiction of North Aurora Road east of the railroad.

In November 2005, the City of Naperville, the City of Aurora and Naperville Township staff initiated a consultant selection process to select the engineering firm most qualified to conduct an engineering study of North Aurora Road and EJ&E crossing, RFQ 06-107. Eighteen consultants submitted proposals for consideration with five short-listed and interviewed. As a result, TranSystems Corporation was selected as the most qualified consultant.

From 2006 through 2012, TranSystems completed the preliminary engineering phase of the project. During this time, there was significant coordination with local residents, the Illinois Commerce Commission (ICC) and the railroad (which changed ownership during this period) to ensure the best design. The ICC and railroad are also very interested in upgrading the crossing to improve rail transportation and committed to financial participation in the project.

In 2015, TranSystems was hired to assist in the land acquisition process. Acquisition of additional right-of-way and construction easements is currently ongoing. Initial offers to the property owners are expected to be made soon after the new year.

**DISCUSSION:**

TranSystems Corporation performed well as the City's engineering consultant for Preliminary Engineering of the project. They developed a long history of coordination with the railroad and other agencies to ensure the best possible project outcome. TranSystems proposed to maintain the same Project Manager that has been involved in this project from the start. Staff recommends TranSystems Corporation provide Design Engineering services for the project as well. The project partners, City of Aurora and Naperville Township, have reviewed the engineering proposal and concur with this recommendation.

The City of Aurora and Naperville Township indicated their support for this next phase and are currently in the process of approving the Second Amendment to the Intergovernmental Agreement to formalize details of their participation. Staff expects to finalize the agreement soon.

**FISCAL IMPACT:**

CIP#: BR005

**BR005 – North Aurora Road Underpass at the CN Railroad**

The project is designed to create a wider roadway beneath the existing CN Railroad bridge on North Aurora Road. The railroad bridge will be widened, allowing the road to expand into a four lane cross-section with bicycle and pedestrian facilities. The project is a joint venture with the City of Aurora and Naperville Township, with Federal and Illinois Commerce Commission (ICC) participation anticipated for construction. Total cost for constructing the underpass is \$32 million.

As part of an IGA with the City of Aurora and Naperville Township, the City of Naperville is responsible for one-third of the total cost of engineering. The City of Aurora and Naperville Township will fund the balance.

Engineering Services related to BR005 are expensed to the two Capital Improvement Program accounts listed below. A total of \$1,741,000 has been budgeted to Capital Projects Fund in CY2016. An additional \$1,154,000 is budgeted to the GO Bond Fund in CY2016. The overall project budget for CY2016 is \$2.9 million. The requested award of \$1,966,526.35 is within the budgeted amount for this project.

<b>Account Number</b>	<b>Fund Description</b>	<b>Total Budget Amount</b>
301-4710-431.70-89	Capital Projects Fund	\$7,226,000
332-4710-431.70-89	G.O. Bond Funds	\$3,937,000

**RECOMMENDATION:**

- A. Adopt a resolution approving the Second Amendment to the Intergovernmental Agreement between the City of Naperville, the City of Aurora and the Naperville Township Road District for design engineering for the North Aurora Road underpass improvements.
- B. Approve the Award of Procurement 16-135 for Design Engineering Services for the North Aurora Road Underpass, to TranSystems Corporation for an amount not to exceed \$1,966,526.35.

**ATTACHMENTS:**

- 1. Resolution
- 2. Second Amendment to the Intergovernmental Agreement for North Aurora Underpass Improvement
- 3. CIP Page - BR005