


Name of the Project: Miller Road Improvement  
LCDOT Change Order No. 4

**Committee Action Meeting Date**

**TO:** Public Works and Transportation Committee  
Financial Administrative Committee

**DATE: April 4, 2012**

**DATE: April 4, 2012**

**FROM:**   
Martin G. Buehler, P.E.  
County Engineer

**SUBJECT:** Change Order No. 4  
Section No. 08-00118-09-BR

Joint Committee action item approving Change Order No. 4 Consisting of an increase of \$ 24,130 for additions to the Miller Road Improvement, Engineering Services, designated as Section No. 08-00118-09-BR.

- Miller Road Improvement, Engineering Services: LCDOT Change Order No. 4
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Miller Road Improvement project is under contract with Engineering Applied Technologies, Inc, in the amount of \$ 578,530.71.
- Additional engineering services are being requested for several revisions to the original scope of work as detailed in the attached Supplement No. 4.

Summary:

Original awarded contract:	\$578,530.71
Change Order No. <u>4</u> :	\$24,130.00
Sum of all changes:	\$74,820.27

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval  
of Change in Consultant Contract

Date: 3/22/2012

Local Agency: LAKE COUNTY

Request: No. 4

Name: Miller Rd Improvement - 0.3 miles  
East of IL Rte 59

To: Lake County Division of Transportation

Section: 08-00118-09-BR

Consultant: Applied Technologies, Inc.

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount for services described:	\$578,530.71
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Sum of all previous contract change orders:	\$50,690.27
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Item #	Description	Additions	Deductions
1	Time spent preparing for February 20th meeting with LCODT	\$2,020.00	
2	Time spent attending February 20th meeting with LCODT	\$1,130.00	
3	Researching HY8 hydraulic program to analyze the Woodland Drive culvert and researching existing plans and information for adequacy	\$3,000.00	
4	Use HY8 program to analyze Woodland Drive Culvert Modify and rerun current south HEC-RAS model for Miller Road project Coordinating with Village of North Barrington, LCSMC & LCDOT and reporting findings to LCDOT and responding questions	\$13,000.00	
5	Preparation for meeting with Village, LCDOT & LCSMC	\$2,030.00	
6	Future meeting with Village of North Barrington, LCDOT & LCSMC	\$1,550.00	
7	Administration Allowance	\$1,400.00	
TOTALS		\$24,130.00	\$0.00
NET CHANGE		\$24,130.00	\$0.00

Net ADDITION change to date \$74,820.27 which is 12.93 % of the original contract amount for services described

State fully the nature and reason for change:

Revised contract amount for services described:	\$653,350.98
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Please see attached.

When the net increase or decrease in the cost of the contract is \$10,000 or more, or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.

The undersigned determined that the circumstances which necessitated this change were not within the contemplation of the contract as signed.

The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

Project Engineer: Satish Kumar Shrivastava Date 3/22/12

Engineer of Design: Michael D. Jones Date 3/22/12

Approved: Mark A. Beechler Date 3/27/12  
County Engineer

March 21, 2012



Mr. Satrugan Shrestha  
Lake County Division of Transportation  
600 West Winchester Road  
Libertyville, IL 60048-1381

**Subject:** Contract Modification No. 4 Breakdown  
Miller Road Bridge Improvement Project  
Section 08-00118-09-BR

Dear Satrugan:

It is our understanding that the intent of this modification is to provide time for the engineering review of the culvert recently installed at Woodland Drive using the HY8 flow analysis program. The results of this analysis will then be used to modify our existing Miller Road south HEC-RAS model. The modified HEC-RAS model may show a decrease in the amount of compensatory storage required for the Miller Road Project, which would be beneficial to the project. ATI will report these findings to LCDOT. It is our understanding that LCDOT will then ask for ATI to meet with the Village of North Barrington, LCSMC and LCDOT to discuss the results. The next step to be taken will then be decided at this meeting.

The modification to the scope of work to the Miller Road Bridge Improvement Project is summarized as follows:

- |  |           |
|--|-----------|
| 1. Time spent preparing for February 20 <sup>th</sup> meeting with LCDOT:  | \$2,020   |
| <ul style="list-style-type: none"><li>• Compiling information for meeting</li><li>• Coordinating documents for meeting</li><li>• Printing costs -\$20</li></ul>                                |           |
| 2. Time spent attending February 20 <sup>th</sup> meeting with LCDOT:  | \$1,130   |
| <ul style="list-style-type: none"><li>• Travel time and attendance</li><li>• Compilation of meeting minutes</li><li>• Mileage costs - \$30</li></ul>   |           |
| 3. Time spent researching level of effort required:  | \$3,000   |
| <ul style="list-style-type: none"><li>• Researching HY8 hydraulic program to analyze the Woodland Drive culvert</li><li>• Researching existing plans and information for adequacy</li></ul>    |           |
| 4. Analysis of Woodland Drive Culvert:   | \$13,000* |
| <ul style="list-style-type: none"><li>• Use HY8 program to analyze Woodland Drive Culvert</li><li>• Modify and rerun current south HEC-RAS<sup>1</sup> model for Miller Road Project</li></ul> |           |



Mr. Satrughan Shrestha, Lake County Division of Transportation

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- Coordinating with Village of North Barrington, LCSMC & LCDOT
- Reporting findings to LCDOT and responding to questions
- 5. Preparation for meeting with Village, LCDOT & LCSMC \$2,030
  - Compiling information for meeting
  - Coordinating documents for meeting
  - Estimated printing costs - \$30
- 6. Future meeting with Village of North Barrington, LCDOT & LCSMC \$1,550
  - Travel time and attendance
  - Compiling meeting minutes
  - Travel Expenses - \$30
- 7. Administration Allowance \$1,400

The additional work outlined above results in an additional **\$24,130** in engineering fees.

Please see the attached hour breakdown by task.

Sincerely,  
Applied Technologies, Inc.

Paul A. Tadda, P.E.

Robert C. Janke, S.E., P.E.

Hour Breakdown per Designated Task							
Task #	Task Description & (Subcontractor)	ATI Hours	ATI Costs	Subcontractor (s)	Contribution to Prime	Expenses	Total Cost
1	Prep work for February 20th meeting	16	\$ 2,000	\$ -	\$ -	\$ 20	\$ 2,020
2	Meeting & meeting minutes	9	\$ 1,100	\$ -	\$ -	\$ 30	\$ 1,130
3	Research of analysis program & available plans of culvert	24	\$ 3,000			\$ -	\$ 3,000
4	Engineering & Tech time for analysis	124	\$ 13,000			\$ -	\$ 13,000
5	Preparation of documentation for meeting with LCDOT	16	\$ 2,000			\$ 30	\$ 2,030
6	Meeting with Village, LCSMC & meeting minutes	12	\$ 1,500			\$ 50	\$ 1,550
7	Admin Allowance	12	\$ 1,400			\$ -	\$ 1,400
Column Totals		213	\$ 24,000	\$ -	\$ -	\$ 130	\$ 24,130