

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 5/30/2017 Local Agency: LAKE COUNTY

Request: No. 2 Name: Cedar Lake Road Reconstruction

To: Lake County Division of Transportation Section: 08-00065-02-RS

Consultant: Crawford, Murphy & Tilly

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

The estimated work is listed below

Original contract amount for services described:	\$543,160.20
Sum of all previous contract change orders:	\$170,108.25

Item #	Description	Additions	Deductions
1	Additional work performed on the Forest Preserve Site including additional design, project schedule considerations, LCFPD seeding specification revisions, coordination and reviews by LCFPD and preparation of temporary license agreement exhibits.	\$11,684.35	
	TOTALS	\$11,684.35	\$0.00
	NET CHANGE	\$11,684.35	\$0.00

Net ADDITION change to date \$181,792.60 which is 33.47 % of the original contract amount for services described

State fully the nature and reason for change:

Please see attached.	Revised contract amount for services described:	\$724,952.80
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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 Manager/Engineer _____ Date _____

Department Head _____ Date _____

Chief Accounting Specialist _____ Date _____

Approved _____ Date _____
County Engineer

EXHIBIT “A”

Supplement #2 CMT Phase II Scope of Services Cedar Lake Road – IL 120 to Nippersink Road Project

SUPPLEMENT #2 – Detailed Scope of Additional Engineering Service

Exhibit A: SUPPLEMENTAL SCOPE OF SERVICES

**Lake County Division of Transportation
Project Scope Description to Provide
Phase II (Design) Services for
Cedar Lake Road – IL Route 120 to Nippersink Road**

- 1. Data Collection:** NO OUT OF SCOPE/ADDITIONAL WORK
- 2. Field and Land Surveys (State Plane):** NO OUT OF SCOPE/ADDITIONAL WORK
- 3. Pump Station Alternative Analysis:** NO OUT OF SCOPE/ADDITIONAL WORK
- 4. RV Sales/Service Facility Improvements (Forest Preserve Property)**
 - a. Additional Landscaping and Erosion Control Design:** Original scope was developed assuming only a temporary cover crop and temporary erosion control blanket would be placed throughout the RV site following grading. This initial assumption was evident in the meeting minutes with the Lake County Forest Preserve District (LCFPD) on August 26, 2015. The final landscaping and erosion control became much more complex, and required additional design, sheet preparation, and LCFPD coordination/reviews. This line item covers the design and sheet preparation, while line items 4.c. & 4.d cover the additional LCFPD Specifications and additional LCFPD coordination/reviews.
 - b. Additional Project Schedule Considerations Related to LCFPD Work:** Multiple construction schedules were developed to account for schedule restrictions related to LCFPD work. Specifically, the schedule restrictions were related to the planting schedules of specific seed mixtures, tree planting schedules, staff availability for building removal, and migratory bird species activity restrictions. Anticipated construction schedules were submitted to LCDOT on 11/21/2016, 11/29/2016, and 1/23/2017. The 1/23/2017 submittal included three separate schedules to account for different potential letting/construction start dates.
 - c. Additional LCFPD Specifications:**
 - 1) Seeding, Special II (Basic Prairie)/Maintenance Mowing/Prairie Weed Control
 - 2) Seeding Special III (Low-Maintenance Turf)
 - 3) Trees (Special)
 - d. Additional coordination/reviews by LCFPD for the plans, specifications, and quantities at Nippersink Forest Preserve, specifically with respect to the erosion control, native seeding, tree planting, and special contractor qualifications/schedule requirements within the site.**
 - e. Temporary License Agreement Exhibits:** These exhibits were requested to allow pre-contract tree removal work to occur on LCFPD property. Submitted original exhibits on 2/13/2017 and updated exhibits on 2/14/2017, 2/20/2017, 2/21/2017, and 2/24/2017.

5. **Geotechnical Investigations/Reports:** NO OUT OF SCOPE/ADDITIONAL WORK
6. **Intersection Design Study/IDOT Detour Plans Coordination:** NO OUT OF SCOPE/ADDITIONAL WORK
7. **Preliminary Structural Plans:** NO OUT OF SCOPE/ADDITIONAL WORK
8. **Prefinal & Final Structural Plans:** NO OUT OF SCOPE/ADDITIONAL WORK
9. **Roadway Plans:** NO OUT OF SCOPE/ADDITIONAL WORK
10. **Specifications and Quantities:** NO OUT OF SCOPE/ADDITIONAL WORK
11. **Environmental/Permitting:** NO OUT OF SCOPE/ADDITIONAL WORK
12. **Soil Erosion and Sediment Control:** NO OUT OF SCOPE/ADDITIONAL WORK
13. **Right of Way Services:** NO OUT OF SCOPE/ADDITIONAL WORK
14. **Design Services During Construction:** NO OUT OF SCOPE/ADDITIONAL WORK
15. **Progress Meetings/Field Meetings/Field Checks/Coordination:** NO OUT OF SCOPE/ADDITIONAL WORK
16. **Quality Management Plan:** NO OUT OF SCOPE/ADDITIONAL WORK
17. **Administration/Project Management:** NO OUT OF SCOPE/ADDITIONAL WORK

EXHIBIT “B”

CMT Cost Estimate of Consultant Services (CECS)

EXHIBIT "B" - Supplement #2

Route: Cedar Lake Road - Phase II
 Local Agency: Lake County Division of Transportation
 Section No.: 08-00065-02-RS

Method of Compensation:

Cost Plus Fixed Fee 1 14.5%[DL + R(DL) + OH(DL) + IHDC]
 Cost Plus Fixed Fee 2 14.5%[DL + R(DL) + 1.4(DL) + IHDC]
 Cost Plus Fixed Fee 3 14.5%[(2.3 + R)DL + IHDC]

*Firm's **approved rates** on file with DOT'S
 Bureau of Accounting and Auditing:

Overhead Rate (OH) 164.09%
 Complexity Factor 'G' 0.00
 Calendar Days 212

Cost Estimate of Consultant's Services in Dollars

Element of Work		Man-Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by others	In-House Direct Costs (IHDC)	Profit	Total	% of Grand Total
Phase II Tasks										
1	Data Collection	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
2	Field Surveys	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
3	Pump Station Alt Analysis/Surveys/Des	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
4	RV Sales/Service Facility Improvements	118.0	\$32.75	\$3,864.09	\$6,340.58	\$0.00	\$0.00	\$1,479.68	\$11,684.35	100.00%
5	Geotechnical Investigations	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
6	Intersection Design Study	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
7	Preliminary Structural Plans (Culvert)	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
8	Prefinal & Final Structural Plans	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
9	Roadway Plans	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
10	Specifications & Quantities	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
11	Environmental/Permitting	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
12	Soil Erosion and Sediment Control	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
13	Right of Way Services	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
14	Design Services During Bid/Constructio	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Project Management Tasks										
15	Meetings and Coordination	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
16	Quality Assurance Plan	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
17	Project Administration	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Total Out of Scope Effort		118.0	\$32.75	\$3,864.09	\$6,340.58	\$0.00	\$0.00	\$1,479.68	\$11,684.35	100.00%

Total Supplement #2 Request: **\$11,684.35**

SUPPLEMENT 2: Cedar Lake Road - Phase II
II 120 to Nippersink Road
Lake County Division of Transportation

Man Hour Estimate for Consulting Services (Total Project)

Crawford, Murphy, and Tilly, Inc.

Summary of Man Hours

Item	CMT Total Hours
Phase II Tasks	
1 Data Collection	0.0
2 Field Surveys	0.0
3 Pump Station Alt Analysis/Surveys/Design	0.0
4 RV Sales/Service Facility Improvements	118.0
5 Geotechnical Investigations	0.0
6 Intersection Design Study	0.0
7 Preliminary Structural Plans (Culvert)	0.0
8 Prefinal & Final Structural Plans	0.0
9 Roadway Plans	0.0
10 Specifications & Quantities	0.0
11 Environmental/Permitting	0.0
12 Soil Erosion and Sediment Control	0.0
13 Right of Way Services	0.0
14 Design Services During Bid/Construction	0.0
Project Management Tasks	
15 Meetings and Coordination	0.0
16 Quality Assurance Plan	0.0
17 Project Administration	0.0
Total Project Hours:	
	118.0

	CMT Hours
1 Data Collection	
NO OUT OF SCOPE/ADDITIONAL WORK	0
Sub - total	0
2 Field Surveys	
NO OUT OF SCOPE/ADDITIONAL WORK	0
Sub - total	0
3 Pump Station Alt Analysis/Surveys/Design	
NO OUT OF SCOPE/ADDITIONAL WORK	0
Sub - total	0
4 RV Sales/Service Facility Improvements	
4.a Additional Landscaping and Erosion Control Design	24
4.b Additional Project Schedule Considerations Related to LCFPD Work	36
4.c Additional LCFPD Specifications	20
4.d Additional Coordination/Reviews by LCFPD	28
4.e Temporary License Agreement Exhibits	10
Sub - total	118
5 Geotechnical Investigations/Reports	
NO OUT OF SCOPE/ADDITIONAL WORK	0
Sub - total	0
6 Intersection Design Study/IDOT Detour Plans Coordination	
NO OUT OF SCOPE/ADDITIONAL WORK	0
Sub - total	0

**SUPPLEMENT 2: Cedar Lake Road - Phase II
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Man Hour Estimate for Consulting Services (Total Project)

Crawford, Murphy, and Tilly, Inc.

7	Preliminary Structural Plans	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
8	Prefinal & Final Structural Plans	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
9	Roadway Plans	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
10	Specifications & Quantities	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
11	Environmental/Permitting	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
12	Soil Erosion and Sediment Control	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
13	Right of Way Services	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
14	Design Services During Bid/Construction	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
15	Meetings and Coordination	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
16	Quality Assurance Plan	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0
17	Project Administration	
	NO OUT OF SCOPE/ADDITIONAL WORK	0
	Sub - total	0

SUPPLEMENT 2: Cedar Lake Road - Phase II
II 120 to Nippersink Road
Lake County Division of Transportation

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

1	Data Collection	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
2	Field Surveys	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
3	Pump Station Alt Analysis/Surveys/Design	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
4	RV Sales/Service Facility Improvements	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
5	Geotechnical Investigations	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
6	Intersection Design Study	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
7	Preliminary Structural Plans (Culvert)	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
8	Prefinal & Final Structural Plans	
a	No Direct Costs	
	Sub - total	\$0.00

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Estimate of Direct Costs

9	Roadway Plans	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
10	Specifications & Quantities	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
11	Environmental/Permitting	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
12	Soil Erosion and Sediment Control	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
13	Right of Way Services	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
14	Design Services During Bid/Construction	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
15	Meetings and Coordination	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
16	Quality Assurance Plan	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00
17	Project Administration	
a	No Direct Costs	\$0.00
	Sub - total	\$0.00

AVERAGE HOURLY PROJECT RATES

FIR
PS
PRI

Crawford, Murphy & Tilly, Inc.

DATE 05/30/17

SHEET 1 OF 4

AVERAGE HOURLY PROJECT RATES

FIRM

Crawford, Murphy & Tilly, Inc.

PSB

PRIME/SUPPLEMENT

DATE

05/30/17

SHEET

2 OF

4

AVERAGE HOURLY PROJECT RATES

FIRM

Crawford, Murphy & Tilly, Inc.

PSB

PRIME/SUPPLEMENT

DATE

05/30/17

SHEET

3 OF 4

AVERAGE HOURLY PROJECT RATES

**FIRM
PSB
PRIMEA**

Crawford, Murphy & Tilly, Inc.

DATE

05/30/17

SHEET

4 OF 4

SUPPLEMENT 2: Cedar Lake Road - Phase II
II 120 to Nippersink Road
Lake County Division of Transportation

Development of Project Hourly Rates (IDOT Method)

Crawford, Murphy, and Tilly, Inc.

Item	2015 Actual Rate	2016 Projected @ 3.0% Increase	2017 Projected @ 3.0% Increase	2018 Projected @ 3.0% Increase	2019 Projected @ 3.0% Increase	2020 Projected @ 3.0% Increase
Average Hourly Rate as a Percent of 2015 Rate	100.0%	103.0%	106.1%	109.3%	112.6%	115.9%
Estimated Months of Contract in Given Year	0	4	3	0	0	0
% of Project Duration	0.00%	57.14%	42.86%	0.00%	0.00%	0.00%
Extension	0.000	0.589	0.455	0.000	0.000	0.000
Weighted Project Hourly Rate Multiplier	Note: Salary Adjustments are Given on January 1 of Each Year					1.0432

Project Duration: September 1, 2016 to March 31, 2016=

7 months

SUPPLEMENT 2: Cedar Lake Road - Phase II
Lake County Division of Transportation

**Computation of Prorated
 Project Hourly Rates**

Crawford, Murphy, and Tilly, Inc.

Classification	Actual 2015 Average Hourly Rate	Weighted Hourly Rate Multiplier	Project Hourly Rates *
Principal	\$70.00	1.0432	\$70.00
Senior Project Engineer	\$58.29	1.0432	\$60.81
Project Engineer	\$45.33	1.0432	\$47.29
Senior Engineer	\$35.34	1.0432	\$36.87
Senior Technical Manager	\$38.94	1.0432	\$40.62
Engineer	\$27.96	1.0432	\$29.17
Planner	\$22.21	1.0432	\$23.17
Registered Land Surveyor	\$40.50	1.0432	\$42.25
Senior Technician	\$34.51	1.0432	\$36.00
Technician II	\$26.08	1.0432	\$27.21
Technician I	\$20.22	1.0432	\$21.09
Clerical	\$20.51	1.0432	\$21.40

* Rates to be applied to all project work tasks