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Director of Transportation/County Engineer


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**Skokie Valley Bike Path (Laurel Avenue to IL Rte. 176) Phase III
Engineering Services: Change Order No. 1 & Final**

TO: Public Works and Transportation Committee
Financial & Administrative Committee

DATE: October 7, 2009

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FROM: 
Martin G. Buehler
County Engineer

SUBJECT: Change Order
No. 1 & Final
Section No. 94-00241-00-BT
Alfred Benesch & Co,
Construction Inspection

Joint committee action item approving Change Order No. 1 & final for the Skokie Valley Bike Path from Laurel Ave. to IL Rte. 176, designated as Section No. 94-00241-00-BT.

- Change orders need to be approved by the standing committees for cumulative net increases over 10%
- The Skokie Valley Bike Path project is under an original engineering contract proposal totaling \$194,309.00.
- The construction contract on this project exceeded the original completion date due to additional requirements from the land owners (*Com Ed & Union Pacific Railroad*).
- As a result, the construction inspection consultant had additional time and costs to cover this additional construction time frame.

Summary:

Original contract	\$194,309.00
Change Order No. 1	\$25,685.00
Sum of all changes	\$25,685.00

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 09/28/2009

Local Agency: LAKE COUNTY

Request: No. 1

Name: Skokie Valley Bike Path
Phase III Engineering

To: Department of Transportation
LCDOT/SCHAUMBURG

Section: 94-00241-00-BT

Consultant: Alfred Benesch & Co.

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

The estimated work is listed below

Original contract amount for services described:	\$194,309.00
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Sum of all previous contract change orders:	\$0.00
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Item #	Description	Additions	Deductions
1	Additional fees requested to address the effort	\$25,685.00	
TOTALS		\$25,685.00	\$0.00
NET CHANGE		\$25,685.00	\$0.00

Net ADDITION change to date \$25,685.00 which is 13.22 % 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:	\$219,994.00
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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.

XXX The undersigned has determined that the circumstances that necessitate this change were not reasonably foreseeable at the time the contract was signed.

The undersigned has determined that the circumstances that necessitate this change are germane to the original contract.

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

Project Engineer *Dennis Petho* Date 9/28/09

Design Engineer *Michael A. Zure* Date 9/28/09

Approval
Recommended _____ Date _____
County Engineer

APPROVED

DEPARTMENT OF TRANSPORTATION

Approved _____

Regional Engineer

County Engineer
On Behalf of IDOT pursuant to Agreement
of Understanding dated January 22, 2003

Change Order #1
Skokie Valley Bike Path
94-00241-00-BT

Reason:

Benesch's additional costs are attached for approval. This is mainly due to the project lasting well beyond the original completion of August 14, 2008. With additional requirements that were placed upon the County & the Contractor for this project by the land owners (Com Ed & Union Pacific Railroad), the project duration increased to August 25, 2009 with final punchlist completion of September 25, 2009. The Benesch Resident Engineer did the best he could with conserving hours during the slow times, but items like erosion control inspection, daily diary documentation and other paperwork were necessary even while the project was suspended for the Contractor's work.

Attached are the: 1) original progress schedule, 2) revised estimate of cost for the Consultant, 3) summary of schedules & delays

Original Phase III = \$194,309.00
Original Appropriation = \$210,000.00 (100% MFT)
Phase III Change Order = \$25,685.00

FINAL TOTAL = \$219,994.00

EXHIBIT B - Estimate of Costs (Assuming an April 1, 2008 Construction Start and an October 1, 2008 Completion Date)

**CONSTRUCTION ENGINEERING SERVICES
Lake County - Skokie Valley Bike Path at UPRR Spur**

Alfred Benesch & Co.

Position	Classification	Hourly Rate	09/01/08	09/02/08	09/03/08	09/04/08	09/05/08	09/06/08	09/07/08	09/08/08	09/09/08	09/10/08	09/11/08	09/12/08	10/01/08	10/02/08	10/03/08	10/04/08	10/05/08	10/06/08	10/07/08	10/08/08	10/09/08	10/10/08	10/11/08	10/12/08	TOTAL Manhours	Total Labor Cost	
Principal Engineer	Principal Engineer	\$200.00	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	26	\$5,200.00	
Resident Engineer	Resident Project Manager I	\$110.00	0	40	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	1,600	176,000.00	
Chief of Party	Sr. Party Chief	\$93.00	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	3,720.00	
Instrument Man	Instrument Operator	\$61.00	0	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	8,784.00	
Rodmen	Survey Assistant	\$40.00	0	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	5,760.00	
Inspectors	Construction Representative	\$85.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Project Assistant	Res Project Assistant	\$55.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Totals			0	114	226	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	1,954	\$199,144.00	
Cumulative Totals			0	114	540	302	664	826	1,052	1,244	1,376	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,488	1,954	\$199,144.00	
Vehicle Days			0	5	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	200	\$10,410.00	
Anticipated Contractor Changed Working Days			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00

* Additional hours required in blue
** Hours used in black

Labor, Off and Profit: \$199,144.00
Direct Costs: \$10,440.00
Material/Testing/Sub: \$10,410.00
Total: \$219,994.00

Original Contract Cost = \$194,309.00
Total cost of this Amendment = \$25,685.00

SKOKIE VALLEY BIKE PATH - SECTION 94-00241-00-BT

Summary of Schedules and Delays

Date	Event
3/25/2008	Preconstruction Conference
4/1/2008	Began Layout
4/8/2008	Com Ed was noticed installing directionally bored casing in the same area of the culvert
4/9/2008	Met with Com Ed in the field to discuss the work
4/14/2008	Submitted Temp. Soil Retention System for approval
4/15/2008	Verified conflict of conduit, began earthwork
5/9/2008	Met on site with Com Ed to discuss relocation of conduit
5/14/2008	Ordered by Com Ed to cease construction activities
5/19/2008	<i>Original scheduled 30 hour window</i>
5/27/2008	Demobilized from site
7/3/2008	<i>Original scheduled completion of culvert structural work</i>
7/21/2008	<i>Original scheduled completion of earthwork</i>
7/29/2008	<i>Original scheduled completion of paving</i>
8/7/2008	<i>Original scheduled completion of landscaping</i>
8/14/2008	<i>Original scheduled completion of punchlist</i>
8/13/2008	Received approval to resume work from Com Ed
8/16/2008	Created access for Com Ed to begin relocation
8/20/2008	Com Ed began relocation of conflict
9/11/2008	Com Ed completed relocation
10/22/2008	Railroad Submittals Approved
10/28/2008	Scheduled date of 12/12/08 for 30 hour window
10/29/2008	Requested approval of crane from Com Ed and informed of the need for a vertical survey
11/5/2008	Com Ed rejected vertical survey and sent requirements for more substantial survey.
11/11/2008	Contractor performed vertical survey and mobilized temp. soil retention system material
11/12/2008	Union Pacific Coordination Meeting scheduled for 12/8/08, contractor unable to contact UP for flagging.
11/18/2008	Union Pacific cannot provide a flagger for prep work until 12/8/08, 30 hour window rescheduled to 12/20/08.
11/20/2008	Vertical Survey sent to Com Ed

SKOKIE VALLEY BIKE PATH - SECTION 94-00241-00-BT

Summary of Schedules and Delays

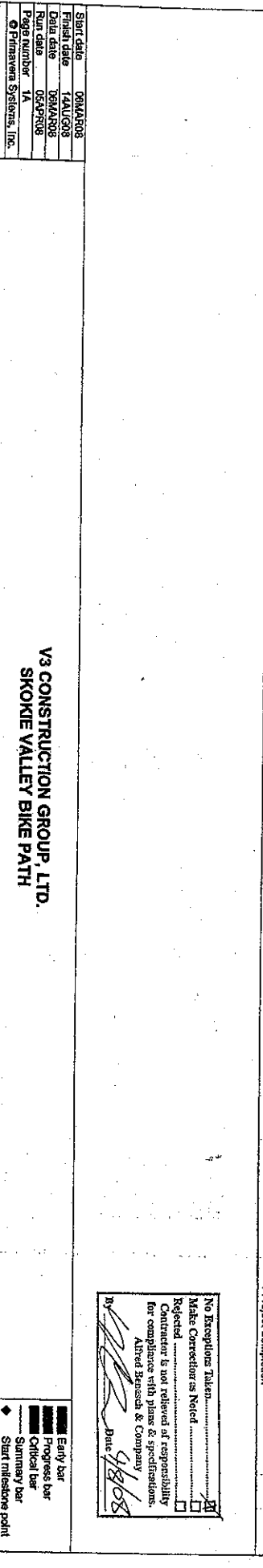
Date	Event
11/21/2008	Approval of crane from Com Ed on site
12/4/2008	Contractor unable to make 12/20/08 date due to cost issues, pushed 30 hour window to 1/24/09, pending Lake County Board approval.
12/5/2008	Resumed earth excavation to prepare for 30-hour window
1/7/2009	Union Pacific canceled 30 hour window until spring due to lack of personnel and Lake County Board approval of extra costs.
3/26/2009	Received tentative approval of 4/25/09 for 30 hour window from UP
4/7/2009	Contractor requested the 30 hour window date be pushed back to 5/2/09.
4/15/2009	Resumed earthwork on site
4/16/2009	Began installing temp. soil retention system
4/22/2009	Mobilized crane
4/27/2009	Delivered precast box culvert sections
5/3/2009	Completed 30 hour window work
6/17/2009	<i>Revised scheduled completion of culvert structural work</i>
7/2/2009	<i>Revised scheduled completion of earthwork</i>
7/13/2009	<i>Revised scheduled completion of paving</i>
7/15/2009	Actual completion of culvert structural work (7 working days over schedule, lost 4 days due to dampproofing approval, lost 7.5 days to weather)
7/22/2009	<i>Revised scheduled completion of landscaping</i>
7/29/2009	<i>Revised scheduled completion of punchlist</i>
8/6/2009	Actual completion of earthwork (10 working days over schedule, lost 4 days due to dampproofing approval, lost 8.5 days to weather)
8/13/2009	Actual completion of paving (8 working days over schedule, lost 4 days due to dampproofing approval, lost 9.5 days to weather)
8/25/2009	Actual completion of landscaping (5 working days over schedule, lost 4 days due to dampproofing approval, lost 12.5 days to weather)
9/25/2009	<i>Tentative completion of punchlist</i>

SKOKIE VALLEY BIKE PATH - SECTION 94-00241-00-BT

Summary of Schedules and Delays

<i>Date</i>	<i>Contractor Schedule</i>	<i>CM Schedule</i>
7/2/2009	Revised scheduled completion of earthwork	
7/13/2009	Revised scheduled completion of paving	
7/15/2009	Actual completion of culvert structural work (7 working days over schedule, lost 4 days due to dampproofing approval, lost 7.5 days to weather)	
7/22/2009	Revised scheduled completion of landscaping	
7/29/2009	Revised scheduled completion of punchlist	
8/6/2009	Actual completion of earthwork (10 working days over schedule, lost 4 days due to dampproofing approval, lost 8.5 days to weather)	Provide Inspection of contractor's work on site. Document earthwork quantities.
8/13/2009	Actual completion of paving (8 working days over schedule, lost 4 days due to dampproofing approval, lost 9.5 days to weather)	Provide Inspection of contractor's work on site. Document paving quantities.
8/25/2009	Actual completion of landscaping (5 working days over schedule, lost 4 days due to dampproofing approval, lost 12.5 days to weather)	Provide Inspection of work on site. Document landscaping quantities
8/25/09 - 9/25/09	Work on Punchlist	Inspect and document punchlist work. Work on final quantities.
9/25/2009	Tentative completion of punchlist	Inspect and document punchlist work. Work on final quantities.
9/25/2009 - 10/15/09	Work on Project Closeout	Project closeout. Finalize Documentation.
10/15/2009	<i>Project Complete</i>	Turn in project files.

Ad ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish
1000	Notice to Proceed	1	0	10/24/08	10/24/08
1001	Railroad Submittal Preparation	12	12	10/24/08	10/24/08
1002	Railroad Submittal Review/Approval	20	20	10/24/08	10/24/08
1003	Box Culvert Fabrication & Delivery	9	9	10/24/08	10/24/08
1004	Temporary Shoring	5	5	10/24/08	10/24/08
1005	30 Hour Window Preparation	2	2	10/24/08	10/24/08
1006	Excavate Footings	4	4	10/24/08	10/24/08
1007	Form & Pour Footings	2	2	10/24/08	10/24/08
1008	Form & Pour West Wingwalls	5	5	10/24/08	10/24/08
1009	Form & Pour East Wingwalls	5	5	10/24/08	10/24/08
1010	Form & Pour Headwalls	2	2	10/24/08	10/24/08
1011	Membrane Waterproofing	2	2	10/24/08	10/24/08
1012	Damp Proofing	2	2	10/24/08	10/24/08
1013	Backfill Walls PCC Special	6	6	10/24/08	10/24/08
1014	Place Aggregate Surface Course	2	2	10/24/08	10/24/08
1015	Install Picket Handrail	2	2	10/24/08	10/24/08
1016	Hot Mix Surface Course	3	3	10/24/08	10/24/08
1017	Seed & Erosion Control Blanket	7	7	10/24/08	10/24/08
1018	Signage & Warning Stakes	2	2	10/24/08	10/24/08
1019	Stringing	1	1	10/24/08	10/24/08
1020	Punchlist	5	5	10/24/08	10/24/08
1021	Construction Layout	3	3	10/24/08	10/24/08
1022	Clear & Grub	3	3	10/24/08	10/24/08
1023	Perimeter Erosion Barrier	3	3	10/24/08	10/24/08
1024	Earth Excavation (+/- 3'-3'10 to 2'-9'50)	10	10	10/24/08	10/24/08
1025	Earth Excavation (+/- 1'-3'10 to 2'-9'50)	20	20	10/24/08	10/24/08
1026	Earth Excavation (+/- 0'-8'80 to 1'-2'80)	10	10	10/24/08	10/24/08
1027	Box Culverts 1.2 M x 0.6 M (3, 4 & 5)	5	5	10/24/08	10/24/08
1028	Pipe Culverts (375 MM)	1	1	10/24/08	10/24/08
1029	Box Culverts 1.2 M x 0.6 M (1 & 2)	3	3	10/24/08	10/24/08
1030	Topsoil Furnish & Place	25	25	10/24/08	10/24/08
1031	Chain Link Fence	15	15	10/24/08	10/24/08
1032	Lighting System	20	20	10/24/08	10/24/08
1033	Project Completion	0	0	10/24/08	10/24/08



V3 CONSTRUCTION GROUP, LTD.
SKOKIE VALLEY BIKE PATH

No. Exceptions Taken: 0
 Make Corrections as Noted: 0
 Rejected: 0
 Contractor is not relieved of responsibility for compliance with plans & specifications.
 Alfred Braccardi & Company
 Date: 9/16/08

Early bar
 Progress bar
 Critical bar
 Summary bar
 Start milestone point
 Finish milestone point