

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
 For Inclusion on Board Agenda

 X Resolution or Ordinance (Blue) Waiver of First Requested
 Recommendations of Boards, Commissions & Committees (Green)
 Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: November 8, 2017 (COW) (B of T) **Date:** November 16, 2017

TITLE: IL Route 53 – Storm Water Pump Station
 Change Order No. 4 (Semi-Final)

SUBMITTED BY: David P. Gorman, P.E., Assistant Director of Public Works *DPG*

BACKGROUND/POLICY IMPLICATIONS:

Change Order No. 4 is a net increase of \$313,156.19. The change order represents modifications to existing contract quantities, new Authorized Unit Price (AUP) items and Time and Material (T&M) items for work associated with the construction of the wet well, underground utility installation, compliance with IDOT permit requirements on IL Route 53 and field changes related to the operations and maintenance of the station.

FISCAL IMPACT/FUNDING SOURCE:

Project #: SS 12 01

Current Contract Amount: \$5,719,864.97

Change Order #4: \$313,156.19

Total Revised Contract Amount: \$6,050,021.16

PO #: 2017-00000584

Account: Water/Sewer Capital Reserve 520.790.715.75420 (SS 12 01 \$293,246.19)

Water/Sewer Capital Reserve 520.790.715.75420 (RM PROG 10 \$19,910.00)

Review (as necessary):

Village Attorney X	_____	Date _____
Finance Director X	_____	Date _____
Village Manager X	_____	Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.

Interoffice Memo



To: Scott Niehaus, Village Manager
 From: David Gorman, P.E., Assistant Director Public Works Director *DGP*
 Through: Carl Goldsmith, Public Works Director
 Date: November 08, 2017
 Subject: IL Route 53 Storm Water Pump Station Improvements
 Change Order No. 4 (Semi Final)

Attached please find Change Order No. 4 for this project in the amount of a net increase of \$313,156.19. The change order represents nine (9) new Authorized Unit Price (AUP) items, thirty-four (34) changes to existing contract pay items and eleven (11) new Time and Material billings. Refer to the summary sheet of the change order form for all changes related to contract pay items.

ADJUSTMENT TO EXISTING QUANTITIES

Refer to the two summary sheets behind the change order form. Modifications to miscellaneous existing contract pay items include unused and exceeded quantities.

ROUTE 53 UNDERGROUND UTILITY RE-DESIGN

ADJUSTMENT TO EXISTING QUANTITIES, TIME AND MATERIAL BILLINGS & NEW PAY ITEMS

As discussed in the three previous Change Orders, the existing Village sanitary sewer under the ComEd duct located off the west curb line of IL Route 53 was determined to be collapsed and has generated significant changes to the underground utility component of the project. A second significant change was the inability to directionally drill the underground utilities (as submitted in Change Order #1) and having to "open cut" IL Route 53 to install the water and sanitary sewer by the traditional method of excavating and backfilling. Compliance with the IDOT permit for the installation of the utilities and traffic also added cost to the installation of the utilities. Pay items related to the underground utilities are listed below:

20800150 Trench Backfill This pay item was reduced as trench backfill was covered under certain Time and Material Billing by the underground utility subcontractor (Cabo Construction) Total = (\$18,768.00)

44201747 Class D Patching, Type IV 8 Inch As part of the IDOT permit, temporary lanes needed to be widen within the construction zone. To accomplish this, a temporary shoulder had to be constructed on both side of Route 53 during the installation of the water and sewer main across the roadway. Total = \$10,372.50 (\$75/SQ YD x 574.3 SQ YD)

AUP # 7 Controlled Low Strength Material (CLSM) IDOT insisted on matching the depth of the existing pavement section on Route 53 which included the old concrete roadway underneath the newer full depth asphalt pavement. Total = \$5,550.00 (\$185/CY x 30 CY)

AUP Cabo #7 Replacement of Broken Frame and Grate on Route 53 Replaced under the terms of the IDOT permit. Total = \$872.05

AUP Cabo #8 Remove and Replace 12" RCP with 12" DIP

AUP Cabo #9 Remove and Install 2 Mission Couplings During construction of the water main and sanitary sewer on the east side of the Route 53 right-of way, poor soils were encountered that could not support the existing storm sewer. Total = \$8,568.43 (\$3,841.78 + \$4,726.65)

AUP Cabo#10 Saw Cut Pavement & Replace Broken Flattop on Route 53 Replaced under the terms of the IDOT permit. Total = \$3,209.65

AUP # 17 Traffic Control After traffic control was established for the installation of the underground utilities, IDOT required that vertical delineator panels be installed for the demarcation of the edge of pavement. This was not part of the original parameter of the permit. A second component of this item involved the decommissioning of a NiCor gas main. Two main lines on the west side of the Route 53 right-of-way were located and NiCor was initially reluctant to identify which line was live and which one was out of service. This issue persisted from the fall of 2016 into the summer of 2017. The “dead line” was finally identified and cut out of the way by NiCor forces allowing underground utility work to proceed. Total = \$4,531.00

T & M #4 North Pit and Sanitary By Pass This item is directly related to the collapsed sanitary sewer under the ComEd duct on the west side of Route 53 and a gas main that was located within the receiving pit for the 60 inch liner within the existing storm sewer. Charges include supporting the gas main and running/maintaining a temporary sewer line under Route 53 (including a pump) from the time the storm sewer liner was installed until the new sanitary sewer could be constructed across Route 53 for approximately 10 months. Total = \$40,000.00

T&M #5, #6, #7, #8 #9 & #11 These billings are related to compliance with the IDOT permit for open cutting the utilities across Route 53. This includes pavement removal, temporary pavement, pavement restoration, driveway removal/replacement, temporary relocation of mailboxes, and resident access during construction. Total = \$81,852.50

T & M #10 Turf Stone Pavers Village equipment will need to maintain the new sump sanitary manhole and the existing siphon manhole in the IDOT Right-of-Way. The sump manhole was installed because of the ComEd conflict. Turf will not support heavy Village equipment so Turf Stone Pavers were installed in the Route 53 right-of-way. Total = \$18,203

NEW PAY ITEMS

AUP Cabo #11 Replace Broken B Box off Route 53 Repair of a B-Box that was not located under the JULIE request. Total \$2,118.93

AUP Cabo #12 Re-Adjust Drain Elevations This was a field change. One drainage structure was eliminated to allow overland storm water flow to directly enter a chamber in front of the wet well. An adjusting ring was installed to meet the grade of the new drainage swale. A second structure was adjusted lower so a more pronounced slope of the adjacent area could be achieved. Total \$1,213.34

AUP Cabo #13 Remove 15' of 4" Waterman & Reconnect Service (521 Phillips) This was a field re-design. Fifteen feet at the dead end of the existing water main was realigned and replaced with new 8" diameter pipe to meet the IEPA separation requirement when the water main was extended on-site. The reconnection of the water service for 521 Phillips Court is also included. Total \$2,410.43

AUP Dahme #1 36" Check Valve In discussions with the Design Engineer, Village staff and the Contractor, there were concerns about the long term maintenance of the old Route 53 Station wet well structure. A single low flow pump will be left in the old wet well. The reason for leaving the pump is that it will serve as a low flow discharge and double as a pump to clean/maintain/inspect the discharge area (debris and silt will still accumulate with the structure). A 36 inch discharge pipe is located on the south side of the structure. During periods of very low water levels (extended dry periods), water will be pumped through this pipe. However, whenever the level of East Branch of the DuPage River rises or there are very intense short duration storms, water could backflow into the structure resulting in the pump working against itself by recirculating water that was already discharged. The WaStop valve will serve as a check valve against this situation.

Funding for this operational item will be drawn from Sewer Maintenance and Improvements Program (RM PROG 10), as opposed to the Water/Sewer Project Fund.
Total \$ 19,910.00

T& M #12 Re-route 10" Temporary Sanitary over 4' x 8' Box Culvert This charge covers the installation of two temporary bends to reroute the temporary sanitary sewer over the wet well discharge pipe. The discharge charge structure was located three feet north of the original design due to a field redesign related to the installation of a second chamber to allow for a gravity emergency bypass to the wet well. Total \$1,593.74

T& M #13 Concrete Reinforcement Under the payment clause of the Concrete Reinforcement Section of the contract specifications, the pay item for Concrete Reinforcement was specifically called out for payment, however the item was not included in the Bid Proposal/Schedule of Prices. Total = \$192,742.57

T& M #14 CA-6 Base Course under the Concrete Sidewalk and Driveway The contract specification did not reference how aggregate subbase for concrete flatwork would be accounted for nor was a pay item included in the Bid Proposal. Total \$17,745.00

This change order will be presented to the Public Works Committee at their meeting of November 14, 2017. If the Committee recommends approval, please present this change order to the President and Board of Trustees for their review and approval at their regular meeting on November 16, 2017. If approved, please have two signed copies returned to Engineering for further processing.

DG/rgs

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R E S O L U T I O N
R _____

A RESOLUTION AUTHORIZING A CHANGE ORDER
INVOLVING AN INCREASE/DECREASE IN THE DOLLAR AMOUNT OF
THE CONTRACT OF \$10,000 OR MORE AND/OR EXTENDING/ SHORTENING THE
TIME IN WHICH THE CONTRACT IS TO BE COMPLETED BY THIRTY (30) DAYS
OR MORE

WHEREAS, pursuant to Illinois Compiled Statutes, Chapter 720, Section 5/33E-9, units of local government are required to make specific findings prior to authorizing any change order relative to a contract which would increase or decrease the dollar amount of the contract by \$10,000 or more, or would extend or shorten the time in which the contract is to be completed by thirty (30) days or more; and

WHEREAS, staff has presented and recommended the proposed Change Order No. 4 to the contract between the Village of Lombard and the Rausch Infrastructure, LLC regarding the IL Route 53 Storm Water Pump Station Improvements project, as attached hereto as Exhibit "A" and made part hereof, (the "Change Order") to the Corporate Authorities of the Village of Lombard; and

WHEREAS, said Change Order attached hereto as Exhibit "A" would increase the dollar amount of the contract by \$313,156.19

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: That after reviewing the explanation of staff as to the necessity of and reasons for the Change Order attached hereto as Exhibit "A", the President and Board of Trustees find as follows:

- A That the circumstances which necessitated said Change Order were not reasonably foreseeable at the time the contract was entered into.
- B. That the basis of the Change Order was not within the contemplation of the contract when the contract was signed.
- C. That it is in the best interests of the Village of Lombard to approve the Change Order in its proposed form.
- D. That to the extent that it may have been necessary to go to bid relative to the work contemplated by said Change Order; bidding is hereby specifically waived as to the Change Order work.

SECTION 2: That having made the findings set forth in Section 1 above, the President and Board of Trustees hereby approve the Change Order attached hereto as Exhibit "A", and direct and authorize the Village President and Village Clerk to execute said Change Order on behalf of the Village.

Adopted this 16th day of November, 2017, pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this 16th day of November, 2017.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk

VILLAGE OF LOMBARD CHANGE ORDER

PROJECT NAME: IL Rte 53 Storm Water Pump Station Imp PROJECT NO.: SS-12-01
LOCATION: Phillips Court/IL Rte 53 CHANGE ORDER: 4
CONTRACTOR: Rausch Infrastructure LCC DATE: 11/7/2017
DESCRIPTION OF CHANGE ORDER: Approved extra work and adjusted quantities to current contract pay items

ORIGINAL CONTRACT AMOUNT:	[1] <u>5,279,700.00</u>
TOTAL OF PREVIOUS AUTHORIZED CHANGE ORDERS:	[2] <u>457,164.97</u>
CURRENT CONTRACT AMOUNT: ([1]+[2])	[3] <u>5,736,864.97</u>
PROPOSED CHANGE ORDER: (PENDING APPROVAL)	[4] <u>313,156.19</u>
PROPOSED REVISED CONTRACT AMOUNT: (PENDING APPROVAL) ([3]+[4])	[5] <u>6,050,021.16</u>

NET OF ALL CHANGE ORDERS: (PENDING APPROVAL) ([2]+[4]) \$770,321.16
TIME EXTENSION OR REDUCTION: _____
TOTAL CONTRACT TIME: 330 Cal Days
BUDGET ESTIMATE: \$4,950,000.00
ENGINEER'S ESTIMATE: \$5,560,000.00

RECOMMENDED FOR ACCEPTANCE :

Ray Schwab 11/7/2017 Approved By: _____
Resident Engineer Date Director of Finance Date

William M. Rausch 11/7/2017 Approved By: _____
Contractor Date (<\$10K or 25%) Village Manager Date

Donal R. Brown 11/7/17 Approved By: _____
Village Engineer Date (>\$10K or 25%) Village President Date

[Signature] 11/7/17 Attest: _____
Director of Public Works Date Village Clerk Date

Assistant Director of Finance _____
Date

It is understood that as part of this change order that the Contractor agrees that all bonds, permits, insurance and guarantees are hereby extended to incorporate this Change Order.

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
20800150	TRENCH BACKFILL	1,050.0	CU YD	\$34.00	498.00	(552.00)	(\$18,768.00)	Field Measurements
21300010	EXPLORATION TRENCH, SPECIAL	500.0	CU YD	\$165.00	486.90	(13.10)	(\$2,161.50)	Phillips Ct Water Main & Rt 53 Nicor Gas Main
25200200	SUPPLEMENTAL WATERING	10.0	UNIT	\$565.00	0.00	(10.00)	(\$5,650.00)	Field Measurements
28100105	STONE RIPRAP, CLASS A3	150.0	SQ YD	\$80.00	145.00	(5.00)	(\$400.00)	Field Measurements
44201747	CLASS D PATCHING, TYPE IV, 8 INCH	436.0	SQ YD	\$75.00	540.73	104.73	\$7,854.75	Field Measurements
44201821	Class D Patching, TYPE IV, 14 Inch	65.0	SQ YD	\$110.00	0.00	(65.00)	(\$7,150.00)	Field Measurements
44000500	CURB REMOVAL	831.0	L FOOT	\$22.00	918.00	87.00	\$1,914.00	Field Measurements
54010804	PRECAST CONCRETE BOX CULVERT, 8' X 4'	25.0	FOOT	\$2,000.00	28.00	3.00	\$6,000.00	Field Measurements
56200300	WATER SERVICE LINE, 1"	135.0	FOOT	\$58.00	28.00	(107.00)	(\$6,206.00)	Field Measurements
56200302	WATER SERVICE CONNECTION, LONG	1.0	EACH	\$7,200.00	0.00	(1.00)	(\$7,200.00)	Field Measurements
60108000	PIPE UNDERDRAINS, 12" PVC SDR 35 PERFORATED	165.0	FOOT	\$58.00	154.00	(11.00)	(\$638.00)	Field Measurements
60108000	PIPE UNDERDRAINS, 12" PVC SDR 35 SOLID	130.0	FOOT	\$62.00	117.00	(13.00)	(\$806.00)	Field Measurements
60603800	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	100.0	FOOT	\$32.00	122.00	22.00	\$704.00	Field Measurements
Z0057000	SANITARY SEWER, 10" PVC SDR 26	314.0	FOOT	\$136.00	397.00	83.00	\$11,288.00	Field Measurements
03 30 00/03	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	500.0	SQ FT	\$15.00	1,011.17	511.17	\$7,667.55	Field Measurements
03 30 00/04	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	800.0	SQ YD	\$82.00	717.00	(83.00)	(\$6,806.00)	Field Measurements
31 10 00/02	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	100.0	UNIT	\$90.00	57.00	(43.00)	(\$3,870.00)	Field Measurements
31 10 00/03	TREE REMOVAL (OVER 15 UNITS DIAMETER)	120.0	UNIT	\$85.00	70.00	(50.00)	(\$4,250.00)	Field Measurements
31 20 00/04	NON-SPECIAL WASTE DISPOSAL	100.0	CU YD	\$95.00	0.00	(100.00)	(\$9,500.00)	Field Measurements
31 20 00/05	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	400.0	CU YD	\$75.00	455.00	55.00	\$4,125.00	Field Measurements
31 25 13/01	EROSION CONTROL FENCE	2,300.0	FOOT	\$3.25	1,275.00	(1,025.00)	(\$3,331.25)	Field Measurements
31 25 13/07	WATTLE	500.0	FOOT	\$17.00	50.00	(450.00)	(\$7,650.00)	Field Measurements
31 25 13/08	HIGH VISIBILITY SILT FENCE	1,500.0	FOOT	\$4.00	1,200.00	(300.00)	(\$1,200.00)	Field Measurements
32 92 19/01	4" TOPSOIL	4,000.0	SQ YD	\$8.00	6,100.00	2,100.00	\$16,800.00	Field Measurements
32 92 19/02	CLASS 1 SEEDING	4,000.0	SQ YD	\$2.00	6,100.00	2,100.00	\$4,200.00	Field Measurements
32 92 19/03	EROSION CONTROL BLANKET	4,000.0	SQ YD	\$1.00	6,100.00	2,100.00	\$2,100.00	Field Measurements
32 92 19/04	CLASS 4A SEEDING	1,500.0	SQ YD	\$1.25	0.00	(1,500.00)	(\$1,875.00)	Field Measurements
32 92 19/05	SODDING	500.0	SQ YD	\$8.00	48.00	(452.00)	(\$3,616.00)	Field Measurements
*	SIDEWALK REMOVAL	500.0	SQ FT	\$4.00	0.00	(500.00)	(\$2,000.00)	Field Measurements
*	PAVEMENT REMOVAL	1,000.0	SQ FT	\$5.00	0.00	(1,000.00)	(\$5,000.00)	Field Measurements
*	COM ED ELECTRICAL SERVICE	1.0	L SUM	\$10,000.00	0.00	(1.00)	(\$10,000.00)	Field Measurements
AUP #3	WATER MAIN 8 INCH IN IDOT ROW	100.0	LF	\$180.00	0.00	(100.00)	(\$18,000.00)	Field Measurements
AUP #5	SANITARY SEWER, 8" PVC SDR 26	272.0	LF	\$133.00	92.00	(180.00)	(\$23,940.00)	Field Measurements
AUP #7	Controlled Low Strength Material (CLSM)	16.0	CY	\$185.00	46.00	30.00	\$5,550.00	IDOT Permit Requirement

IL Rte. 53 Storm Water Pump Station Improvements

11/7/2017

Change Order #: 4

No.	Item	Current Quantity	Unit	Unit Price	Revised Quantity	Difference	Amount	Description
AUP Cabo#7	Replace 24" Broken Frame & Adjust Route 53	0.0	L SUM	\$872.05	1.00	1.00	\$872.05	IDOT Requirement
AUP Cabo#8	Remove 12" RCP and Replace with 12" DIP	0.0	L SUM	\$3,841.78	1.00	1.00	\$3,841.78	IEPA/IDOT Requirement
AUP Cabo#9	Remove 12" RCP and Install 2 Mission Couplings	0.0	L SUM	\$4,726.65	1.00	1.00	\$4,726.65	Poor Soils
AUP Cabo#10	Sawcut Pavement and Replace Broken Flat Top on Rt 53	0.0	L SUM	\$3,209.65	1.00	1.00	\$3,209.65	Poor Soils
AUP Cabo#11	Replace Broken B Box near Rt 53	0.0	L SUM	\$2,118.93	1.00	1.00	\$2,118.93	Unmarked Service
AUP Cabo#12	Re-Adjust Drain Elevations	0.0	L SUM	\$1,213.34	1.00	1.00	\$1,213.34	Field Change
AUP Cabo#13	Remove 15' of 4" Watermain & Reconnect Service (521 Phillips)	0.0	L SUM	\$2,410.43	1.00	1.00	\$2,410.43	IEPA Compliance
AUP #17	Traffic Control	0.0	L SUM	\$4,531.00	1.00	1.00	\$4,531.00	IDOT & NiCor delays
AUP Dahme #1	36" Check Valve	0.0	L SUM	\$19,910.00	1.00	1.00	\$19,910.00	Operations
T&M #4	North Pit & Sanitary Bypass	0.0	L SUM	\$40,000.00	1.00	1.00	\$40,000.00	Sanitary Sewer Failure/NiCor
T&M #5	Asphalt Patch 12" Route 53	0.0	L SUM	\$21,000.00	1.00	1.00	\$21,000.00	IDOT Permit/Open Cut Requirement
T&M #6	Two Inch Surface Removal and Replacement along Route 53 Curb Line	0.0	L SUM	\$28,419.30	1.00	1.00	\$28,419.30	IDOT Permit/Open Cut Requirement
T&M #7	Replace Asphalt Drives	0.0	L SUM	\$4,987.50	1.00	1.00	\$4,987.50	IDOT Permit/Open Cut Requirement
T&M #8	Remove Asphalt Drives & Temp Access Stone	0.0	L SUM	\$3,785.70	1.00	1.00	\$3,785.70	IDOT Permit/Open Cut Requirement
T&M #9	Sawcut & Pavement Removal of Pavement on Route 53	0.0	L SUM	\$22,883.00	1.00	1.00	\$22,883.00	IDOT Permit/Open Cut Requirement
T&M #10	Turf Stone Pavers	0.0	L SUM	\$18,203.00	1.00	1.00	\$18,203.00	Platform for VoL Service
T&M #11	Remove and Reinstall Mailboxes	0.0	L SUM	\$777.00	1.00	1.00	\$777.00	IDOT Permit/Open Cut Requirement
T&M #12	Rerout 10" Temporary Sanitary Over 4' x 8" Box Culvert	0.0	L SUM	\$1,593.74	1.00	1.00	\$1,593.74	Field Redesign
T&M #13	Concrete Reinforcement	0.0	L SUM	\$192,742.57	1.00	1.00	\$192,742.57	Missing Pay Item
T&M #14	CA-6 Base Course under Concrete Sidewalk and Drive	0.0	L SUM	\$17,745.00	1.00	1.00	\$17,745.00	Missing Pay Item

TOTAL AMOUNT = **\$313,156.19**