

Late Handouts Distributed

5-16-22

(Date)



CITY OF IOWA CITY

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City Council Agenda – May 17, 2022 – Regular Formal Meeting

Information submitted between distribution of packet on Thursday and 4:00pm on Monday.

Late Handouts(s):

Consent Agenda

6.m. Melrose Avenue / IWW Road Improvement – See revised item and comment (below), Council Action report, Resolution and Change Order.

Resolution authorizing the City Engineer to sign Change Order #06 to the contract between Metro Pavers, Inc. and the City of Iowa City for extra work on the Melrose Avenue / IWW Road Improvement Project [STP-U-3715(668)--70-52].

Comment: During construction of the Melrose Ave / IWW Road Improvement Project, the Contractor determined that there was an error in the earthwork quantities shown in the contract documents. This was confirmed by the Consultant and results in the site not being balanced between cut and fill with additional material required to be hauled off-site. Because of these changes, staff negotiated Change Order #06 in the amount of \$296,822.83 which modifies the contract cost. The project scope and the timeline are not impacted by this change. Funds are available in account # S3936 – Melrose Avenue Improvements.



CITY OF IOWA CITY COUNCIL ACTION REPORT

May 17, 2022

Resolution authorizing the City Engineer to sign Change Order #06 to the contract between Metro Pavers, Inc. and the City of Iowa City for extra work on the Melrose Avenue / IWV Road Improvement Project [STP-U-3715(668)--70-52].

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Prepared By:	Melissa Clow - Special Projects Administrator
Reviewed By:	Jason Havel - City Engineer Ron Knoche - Public Works Director Geoff Fruin - City Manager
Fiscal Impact:	\$296,822.83 available in the Melrose Avenue / IWV Road Improvement Project account # S3936
Recommendations:	Staff: Approval Commission: N/A
Attachments:	Resolution, Change Order

5-16-22

Executive Summary:

During construction of the Melrose Ave / IWV Road Improvement Project, it was discovered that there was an error in the earthwork quantities as shown in the contract documents. The error results in the site not being balanced between cut and fill, with additional material required to be hauled off-site. Because of these changes, staff negotiated Change Order #06 in the amount of \$296,822.83 which modifies the contract quantities to accommodate the additional earthwork and hauling. The project scope and the timeline are not impacted by this change.

Background / Analysis:

As part of the Melrose Ave / IWV Road Improvement Project, the City and the County planned to widen and reconstruct the roadway. In order to do so, the ditches adjacent to the roadway required extensive re-grading to allow for the wider pavement section, paved shoulder and gravel shoulder. During the initial earthwork operations, the Contractor noted that their quantities were not matching up with the earthwork quantities in the plans. The Consultant analyzed their calculations and compared their new numbers to calculations provided by the Contractor, and they agreed. Since the earthwork cannot be amended without affecting the grade of the roadway and potentially the design of the already installed culverts, it was determined the best course of action was to move forward per the contract documents.

Two errors discovered (Earthwork Modifications #1 and #2), as detailed below:

1. When the plan quantities were calculated, there was an error in the units used when subtracting pavement removal quantities from the earthwork quantities. Square Yards were used instead of Cubic Yards. Subtracting an area from a volume resulted in the initial calculations being incorrect. (\$171,285.76)
2. During design, the south roadway shoulder was increased from 3.0' to 5.0' to accommodate traffic during construction. This modification was made in the plans but was not reflected in the earthwork model. When the existing surface was compared to the proposed surface to compute the earthwork, there was a difference in quantities for the length of the project on the south side of the road. (\$34,276.01)



CITY OF IOWA CITY COUNCIL ACTION REPORT

The remaining amount is attributed to Earthwork Modification #3, which addresses the increased amount of topsoil import required. Topsoil areas were anticipated to be from the gravel shoulder to the grading limits line. However, once utility relocation work began, it became apparent that there were significantly more areas disturbed, from the edge of the gravel shoulder to the right-of-way and into the temporary construction easements. Additionally, the contractor completing the relocation of an existing Verizon fiber optic line did not separate or strip topsoil intended to be respread by the Project contractor once grading operations were complete, increasing the need for import. (\$91,261.06)

Resolution No. _____

5-16-22

Resolution authorizing the City Engineer to sign Change Order #06 to the contract between Metro Pavers, Inc. and the City of Iowa City for extra work on the Melrose Avenue / IWW Road Improvement Project [STP-U-3715(668)--70-52].

Whereas, the City entered into a contract on June 21, 2021 with Metro Pavers, Inc. of Iowa City, Iowa; and

Whereas, circumstances encountered during the construction of the project necessitated additional work beyond the original scope of the project as specified within the approved project plans and specifications; and

Whereas, as a result of these changes in circumstances, staff has negotiated a change order that modifies the project scope, timeline, and budget necessitating City Council Approval in accordance with the Purchasing Policy; and

Whereas, it is in the public interest to approve said negotiated change order with Metro Pavers, Inc.; and

Whereas, the Finance Director has reviewed the change order; and

Whereas, funds for this project are available in the Melrose Avenue / IWW Road Improvement Project account # S3936; and

Now, therefore, be it resolved by the City Council of the City of Iowa City, Iowa that:

1. The attached change order hereto is in the public interest, and is approved as to form and content.
2. The City Engineer is hereby authorized and directed to execute the attached Change order.

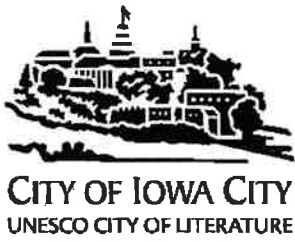
Passed and approved this _____ day of _____, 2022

Mayor

Approved by

Attest: _____
City Clerk

City Attorney's Office
(Sara Greenwood Hektoen – 05/16/22)



City of Iowa City - Iowa

Change Order Details

Melrose Avenue / IWV Road Improvements (52-3715-668)

Late Handouts Distributed

5-16-22
(Date)

Description	STP-U-3715(668)--70-52, AcctID- 37766, Letting Date- 18 May 2021
Prime Contractor	METRO PAVERS, INC.
Change Order	6
Status	Pending
Date Created	05/13/2022
Type	Significant - Federal-aid Participating
Summary	Earthwork Corrections
Change Order Description	<p>Earthwork Modification #1</p> <p>0020 DECREASE item "Embankment-In-Place" - CATEGORY 1, 3,437.3 CY</p> <p>0020 DECREASE item "Embankment-In-Place" - CATEGORY 3, 960.9 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 1, 4,468.5 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 2, 5,069.6 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 3, 5,428.10 CY</p> <p>8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 2, 3,899.7 CY</p> <p>8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 3, 3,214.5 CY</p> <p>Earthwork Modification #2</p> <p>0020 DECREASE item "Embankment-In-Place" - CATEGORY 1, 330.4 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 1, 301.1 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 2, 528.5 CY</p> <p>0030 INCREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 3, 723.8 CY</p>

Change Order Details:

Melrose Avenue / IWV Road Improvements (52-3715-668)

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8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 2, 819.9 CY
8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 3, 962.7 CY

Earthwork Modification #3

0020 DECREASE item "Embankment-In-Place" - CATEGORY 1, 296.9 CY
0030 DECREASE item "Excavation, Class 10, Roadway and Borrow" - CATEGORY 4, 135.7 CY
0060 INCREASE item "Topsoil, Strip, Salvage and Spread" - CATEGORY 1, 2,166.0 CY
0060 INCREASE item "Topsoil, Strip, Salvage and Spread" - CATEGORY 2, 2,052.1 CY
0060 INCREASE item "Topsoil, Strip, Salvage and Spread" - CATEGORY 3, 1,585.2 CY
0060 INCREASE item "Topsoil, Strip, Salvage and Spread" - CATEGORY 4, 218.4 CY
8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 1, 1,369.3 CY
8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 2, 1,578.5 CY
8019 ADD item "Excavation, Class 10, Waste" - CATEGORY 3, 1,219.4 CY

REASON FOR CHANGES Earthwork Modification #1 - When the plan quantities were calculated there was an error in the units used when subtracting pavement removal quantities from earthwork quantities. Square Yards were used instead of Cubic Yards. Subtracting an area from a volume caused the Earthwork calculations to be incorrect. This affected Item 0020, Embankment-In-Place, Item 0030, Excavation, Class 10, Roadway and Borrow, and Item 0040, Excavation, Class 10, Waste. This also created the need for a price adjustment for additional quantity of Item 0040, Excavation, Class 10, Waste, this adjustment will be paid for under a new bid item. When the project was originally bid the Excavation, Class 10, Waste item was only used due to the Division Splits. The Excavation, Class 10, Waste material was able to be utilized in either Division 1 or Division 3 of the project. Therefore, this modification has made it so there is Excavation, Class 10, Waste in each division and zero Embankment-In-Place needed. With this said the Excavation, Class 10, Waste will now have to be deposited off-site vs. originally being used within the project limits. This would be classified as a Change in Character of Work and the Contractor would be allowed a price adjustment. The additional quantity of Excavation, Class 10, Waste will be paid for under Item 8019 at the adjusted Unit Price.

Earthwork Modification #2 - During design the South roadway shoulder was increased from 3' to 5'. This modification was made in the typical cross sections but not reflected through to the corridor model. Therefore, when surfaces were compared to compute earthwork there was a difference in quantities. This affected Item 0020, Embankment-In-Place, Item 0030, Excavation, Class 10, Roadway and Borrow, and Item 0040, Excavation, Class 10, Waste. This also created the need for a price adjustment for additional quantity of Item 0040, Excavation, Class 10, Waste, this adjustment will be paid for under a new bid item. When the project was originally bid the Excavation, Class 10, Waste item was only used due to the Division Splits. The Excavation, Class 10, Waste material was able to be utilized in either Division 1 or Division 3 of the project. Therefore, this modification has made it so there is Excavation, Class 10, Waste in each division and zero Embankment-In-Place needed. With this said the Excavation, Class 10, Waste will now have to be deposited off-site vs. originally being used within the project limits. This would be classified as a Change in Character of Work and the Contractor would be allowed a price adjustment. The additional quantity of Excavation,

Class 10, Waste will be paid for under Item 8019 at the adjusted Unit Price.

Earthwork Modification #3 - During design topsoil areas were anticipated to be from gravel shoulder edge to grading limits line. However, once construction started and with all the utility relocation work taking place on-site there has been significantly more areas disturbed. This has increased the topsoil area to be Right-of-Way/Temporary Construction Easement to Gravel Shoulder edge. Quantities affected by this change are Item 0020, Embankment-In-Place, Item 0030, Excavation, Class 10, Roadway and Borrow, Item 0040, Excavation, Class 10, Waste, and Item 0060, Topsoil, Strip, Salvage and Spread. This also created the need for a price adjustment for additional quantity of Item 0040, Excavation, Class 10, Waste, this adjustment will be paid for under a new bid item. When the project was originally bid the Excavation, Class 10, Waste item was only used due to the Division Splits. The Excavation, Class 10, Waste material was able to be utilized in either Division 1 or Division 3 of the project. Therefore, this modification has made it so there is Excavation, Class 10, Waste in each division and zero Embankment-In-Place needed. With this said the Excavation, Class 10, Waste will now have to be deposited off-site vs. originally being used within the project limits. This would be classified as a Change in Character of Work and the Contractor would be allowed a price adjustment. The additional quantity of Excavation, Class 10, Waste will be paid for under Item 8019 at the adjusted Unit Price.

Awarded Project Amount	\$4,703,659.81
Authorized Project Amount	\$4,675,738.59
Change Order Amount	\$296,822.83
Revised Project Amount	\$4,972,561.42

Increases/Decreases

Line Number	Item ID	Unit	Unit Price	Current		Change		Revised	
				Quantity	Amount	Quantity	Amount	Quantity	Amount
Section: 0001 - Roadway Items									
0020	2102-2625000	CY	\$12.000	5,025.500	\$60,306.00	-5,025.500	-\$60,306.00	0.000	\$0.00
EMBANKMENT-IN-PLACE									

Reason: Quantities changed due to a shoulder connection point correction, unit conversion correction, and topsoil limits extended due to utility relocations.

Change Order Details:

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Line Number	Item ID	Unit	Unit Price	Current		Change		Revised	
				Quantity	Amount	Quantity	Amount	Quantity	Amount
Funding Details									
	52-3715-668-CAT-1 STP-U-3715(668)--70-52			4,064.600	\$48,775.20	-4,064.600	-\$48,775.20	0.000	\$0.00
	52-3715-668-CAT-2 STP-U-3715(668)--70-52			0.000	\$0.00	0.000	\$0.00	0.000	\$0.00
	52-3715-668-CAT-3 STP-U-3715(668)--70-52			960.900	\$11,530.80	-960.900	-\$11,530.80	0.000	\$0.00
	52-3715-668-CAT-4 STP-U-3715(668)--70-52			0.000	\$0.00	0.000	\$0.00	0.000	\$0.00
0030	2102-2710070	CY	\$8.150	10,877.100	\$88,648.37	16,383.900	\$133,528.79	27,261.000	\$222,177.16

EXCAVATION, CLASS 10, ROADWAY AND BORROW

Reason: Quantities changed due to a shoulder connection point correction, unit conversion correction, and topsoil limits extended due to utility relocations.

Funding Details									
	52-3715-668-CAT-1 STP-U-3715(668)--70-52			3,343.800	\$27,251.97	4,769.600	\$38,872.24	8,113.400	\$66,124.21
	52-3715-668-CAT-2 STP-U-3715(668)--70-52			6,505.900	\$53,023.08	5,598.100	\$45,624.52	12,104.000	\$98,647.60
	52-3715-668-CAT-3 STP-U-3715(668)--70-52			891.700	\$7,267.36	6,151.900	\$50,137.99	7,043.600	\$57,405.35
	52-3715-668-CAT-4 STP-U-3715(668)--70-52			135.700	\$1,105.96	-135.700	-\$1,105.96	0.000	\$0.00
0060	2105-8425015	CY	\$6.000	7,276.200	\$43,657.20	6,021.700	\$36,130.20	13,297.900	\$79,787.40

TOPSOIL, STRIP, SALVAGE AND SPREAD

Reason: Quantities changed due to a shoulder connection point correction, unit conversion correction, and topsoil limits extended due to utility relocations.

Funding Details									
	52-3715-668-CAT-1 STP-U-3715(668)--70-52			2,242.600	\$13,455.60	2,166.000	\$12,996.00	4,408.600	\$26,451.60
	52-3715-668-CAT-2 STP-U-3715(668)--70-52			2,527.300	\$15,163.80	2,052.100	\$12,312.60	4,579.400	\$27,476.40
	52-3715-668-CAT-3 STP-U-3715(668)--70-52			1,835.600	\$11,013.60	1,585.200	\$9,511.20	3,420.800	\$20,524.80

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Line Number	Item ID	Unit	Unit Price	Current		Change		Revised	
				Quantity	Amount	Quantity	Amount	Quantity	Amount
	52-3715-668-CAT-4 STP-U-3715(668)--70-52			670.700	\$4,024.20	218.400	\$1,310.40	889.100	\$5,334.60
3 items			Totals		\$192,611.57		\$109,352.99		\$301,964.56

New Items

Line Number	Item ID	Unit	Quantity	Unit Price	Extension
Section: 0001 - Roadway Items					
8019	2102-2710090	CY	13,064.100	\$14.350	\$187,469.84
EXCAVATION, CL 10, WASTE					

Reason: A price adjustment was needed for the additional waste created by the shoulder connection point correction, unit conversion correction, and topsoil limits extended due to utility relocations. The adjustment is warranted because the original bid quantity was to be used in another division within project limits. Now the material is not needed in those divisions and will have to be hauled off-site and disposed of by the contractor. The unit price is between the low (\$0.50/CY) and average (\$19.63/CY) bid prices shown in the February 2021 through March 2022 Iowa DOT Summary of Awarded Contract Prices.

			Funding Details		
	52-3715-668-CAT-1 STP-U-3715(668)--70-52		1,369.300	\$14.350	\$19,649.46
	52-3715-668-CAT-2 STP-U-3715(668)--70-52		6,298.200	\$14.350	\$90,379.17
	52-3715-668-CAT-3 STP-U-3715(668)--70-52		5,396.600	\$14.350	\$77,441.21
1 item					Total: \$187,469.84

Change Order Details:

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Funding Summary

Fund Package	Original Amount	Authorized Amount	Pending Change	Revised Amount
52-3715-668-CAT-2 STP-U-3715(668)--70-52	\$1,158,603.95	\$1,109,990.71	\$148,316.29	\$1,258,307.00
52-3715-668-CAT-3 STP-U-3715(668)--70-52	\$1,055,439.47	\$1,045,651.72	\$125,559.60	\$1,171,211.32
52-3715-668-CAT-1 STP-U-3715(668)--70-52	\$1,258,023.30	\$1,242,758.04	\$22,742.50	\$1,265,500.54
52-3715-668-CAT-4 STP-U-3715(668)--70-52	\$1,231,593.09	\$1,277,338.12	\$204.44	\$1,277,542.56
4 fund packages	\$4,703,659.81	\$4,675,738.59	\$296,822.83	\$4,972,561.42

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Approved: _____

Date: _____

Project Inspector

Approved: _____

Date: _____

Project Engineer

Receipt is acknowledged of this change or extra work order and terms of settlement are hereby agreed to.

Contractor

By: _____

Date: _____

City of Iowa City

Approval: _____

Date: _____

Change Order Details:

Melrose Avenue / IWV Road Improvements (52-3715-668)

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