CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: December 18, 2023

ITEM:

Resolution – Accepting Work
Raccoon River Drive Bridge over Realigned Johnson Creek

FINANCIAL IMPACT:

The total construction cost for the Raccoon River Drive Bridge over Realigned Johnson Creek was $1,794,345.81 which was paid from account no. 500.000.000.5250.490 with the ultimate funding intended to come from Grand Prairie Parkway Urban Renewal Area TIF. The original cost of the project was $1,858,489.04. There were four (4) Change Orders on the project that totaled ($64,143.23).

BACKGROUND:

United Contractors, Inc. was working under an agreement dated November 15, 2021 for construction services for the Raccoon River Drive Bridge over Realigned Johnson Creek. Work on this project included the construction of a 204'x 30' pretensioned prestressed concrete beam bridge over realigned Johnson Creek, grading, bridge approach pavement, surface restoration, erosion control, and miscellaneous associated work.

Originally, when Snyder & Associates, Inc. was contracted to perform the professional services necessary for the design, permitting, and construction for this project, the project was titled Johnson Creek Conveyance Improvements – Phase 1A & Phase 1B. Phase 1A was the construction of a new railroad bridge over the future realigned Johnson Creek. The Iowa Interstate Railroad (IAISRR) handled the construction of their new bridge, with the City financially responsible for associated costs. The City recently received final invoices from the IAISRR for their bridge work and their total came to $1,893,502.49 which is $172,934.51 less than the original estimate of $2,066,437.00.

Phase 1B was the construction of a new Raccoon River Drive Bridge over Realigned Johnson Creek and the name of this project was revised accordingly. The realignment of Johnson Creek was necessary to accommodate the construction of the South Grand Prairie Parkway overpass over Raccoon River Drive and the IAISRR. The realignment of Johnson Creek itself was handled with several different projects due to coordination.

This action accepts the public improvements and authorizes staff to pay the retainage no sooner than 30 days.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution Accepting Work for the Raccoon River Drive Bridge over Realigned Johnson Creek.

Lead Staff Member: Brian J. Hemesath, P.E., City Engineer

STAFF REVIEWS

Department Director	Brian J. Hemesath, P.E., City Engineer
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Greta Truman, Assistant City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Services		
Date Reviewed	December 11, 2023		
Recommendation	**Yes**	No	Split

RESOLUTION ACCEPTING WORK

WHEREAS, on November 15, 2021, the City Council entered into a contract with United Contractors, Inc. of Johnston, Iowa, for the following described public improvement:

Raccoon River Drive Bridge over Realigned Johnson Creek
Project No. 0510-051-2015

and,

WHEREAS, said contractor has substantially completed the construction of said improvement in accordance with plans and specifications as shown by the report of the City Engineer filed with the City Clerk on December 18, 2023; and,

WHEREAS, the City has retained $30,000.00 (1.67%) of the construction costs;

therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that said report of the City Engineer is hereby approved and said public improvement is accepted as having been substantially completed in accordance with plans and specifications and the total final construction cost of said improvement is $1,794,345.81 as shown in said report, and that the Finance Director is hereby authorized to make payment to the Contractor in the amount of $30,000.00, which includes retainage for the project, no sooner than 30 days subject to the Contractor satisfying all the conditions of the contract.

PASSED AND APPROVED on this **18th** day of **December, 2023**.

_____
Russ Trimble, Mayor

ATTEST:

_____
Ryan T. Jacobson
City Clerk

ENGINEERING SERVICES
4200 Mills Civic Parkway, Suite 2D
PO Box 65320
West Des Moines, IA 50265-0320
(515) 222-3475 Fax (515) 273-0602

West Des Moines

RETAINAGE

Contractor: **United Contractors, Inc.**

P.O. Box 347

Johnston, IA 50131

Project Title	**Raccoon River Drive Bridge over Realigned Johnson Creek**	
WDM Project File Number	**0510-051-2015**	
Purchase Order Number	**2022-00000474**	
Orig. Contract Amount & Date	**$1,858,489.04**	**11/15/21**
Estimated Completion Date	**09/30/22**	
Pay Period End Date	**12/1/23**	
Pay Request Number	**Retainage**	
Date	1/16/24	

BID ITEMS

Item No.	Description	Unit	Est. Qty	Unit Price	Extended Price	Quantity Completed	Value Completed
1	Excavation, Class 20	CY	132	$50.00	$6,600.00	132.00	$6,600.00
2	Structural Concrete (Bridge)	CY	161.50	$1,000.00	$161,500.00	161.50	$161,500.00
3	High Performance Structural Concrete	CY	254.3	$1,000.00	$254,300.00	254.30	$254,300.00
4	Reinforcing Steel	LB	20,291	$1.50	$30,436.50	20,291.00	$30,436.50
5	Reinforcing Steel, Epoxy Coated	LB	67,205	$1.50	$100,807.50	67,205.00	$100,807.50
6	Reinforcing Steel, Stainless Steel	LB	3,359	$5.00	$16,795.00	3,359.00	$16,795.00
7	Excavate and Dewater	LS	1	$53,750.00	$53,750.00	1.00	$53,750.00
8	Beams, Pretensioned Prestressed Concrete, BTB55	EACH	8	$18,000.00	$144,000.00	8.00	$144,000.00
9	Beams, Pretensioned Prestressed Concrete, BTB90	EACH	4	$23,000.00	$92,000.00	4.00	$92,000.00
10	Structural Steel	LB	4,473	$5.00	$22,365.00	4,473.00	$22,365.00
11	Longitudinal Grooving in Concrete	SY	741.8	$11.00	$8,159.80	742.00	$8,162.00
12	Concrete Barrier Railing	LF	442	$60.00	$26,520.00	442.00	$26,520.00
13	Piles, Steel, Hp 10 X 57	LF	2,040	$70.00	$142,800.00	2,040.00	$142,800.00
14	Prebored Holes	LF	120	$50.00	$6,000.00	120.00	$6,000.00
15	Bridge Wing Armoring - Erosion Stone	SY	18	$150.00	$2,700.00	18.00	$2,700.00
2.01	Clearing and Grubbing	LS	1	$19,955.00	$19,955.00	1.00	$19,955.00
2.02	Topsoil Strip and Respread	CY	1,770	$7.25	$12,832.50	1,770.00	$12,832.50
2.03	Topsoil, Contractor Furnish	CY	310	$17.00	$5,270.00	310.00	$5,270.00
2.04	Excavation, Class 10, Roadway and Borrow	CY	3,820	$5.50	$21,010.00	3,820.00	$21,010.00
2.05	Excavation, Class 10, Waste	CY	1,507	$6.25	$9,418.75	1,507.00	$9,418.75
2.06	Subgrade Preparation, 12 Inch	SY	2,525	$2.50	$6,312.50	2,525.00	$6,312.50
2.07	Special Backfill	TON	715	$30.00	$21,450.00	84.49	$2,534.70
7.01	Pavement, PCC, 10 Inch., Reinforced	SY	2,017	$85.00	$171,445.00	2,356.00	$200,260.00
7.02	Granular Surfacing	TON	650	$25.50	$16,575.00	21.68	$552.84
7.03	Removal of Pavement	SY	2,925	$8.25	$24,131.25	2,935.00	$24,213.75
7.04	Granular Shoulder	TON	250	$41.00	$10,250.00	361.93	$14,839.13
7.05	Paved Shoulder, 8 Inch	SY	1,043	$75.00	$78,225.00	619.50	$46,462.50
7.06	Bridge Approach Section, as per plan	SY	455	$240.00	$109,200.00	455.00	$109,200.00
7.07	Bridge End Drain, as per plan	EACH	4	$1,400.00	$5,600.00	4.00	$5,600.00
7.08	Steel Beam Guardrail	LF	200	$28.00	$5,600.00	200.00	$5,600.00
7.09	Steel Beam Guardrail Barrier Transition Section	EACH	4	$2,250.00	$9,000.00	4.00	$9,000.00
7.10	Steel Beam Guardrail End Anchor, Bolted	EACH	4	$300.00	$1,200.00	4.00	$1,200.00
7.11	Steel Beam Guardrail End Terminal	EACH	4	$2,700.00	$10,800.00	4.00	$10,800.00
8.01	Painted Pavement Markings, Waterborne or Solvent-Based	STA	95	$18.00	$1,712.34	103.16	$1,856.88
8.02	Wet, Retroreflective Removable Tape Markings	STA	14	$175.00	$2,373.00	10.31	$1,804.25
8.03	Pavement Markings Removed	STA	21	$75.00	$1,584.00	4.05	$303.75
8.04	Temporary Traffic Control	EA	1	$25,000.00	$25,000.00	1.00	$25,000.00
8.05	Temporary Barrier Rail	LF	150	$25.00	$3,750.00	156.00	$3,900.00
9.01	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 2	ACRE	5	$3,250.00	$16,900.00	1.24	$4,030.00
9.02	Erosion Control Mulching, Hydromulching	ACRE	5	$1,600.00	$8,320.00	0.00	$0.00

9.03	Weeding - Chemical Treatment Broadleaf	ACRE	5	$200.00	$1,040.00	0.00	$0.00
9.04	SWPPP Preparation	LS	1	$1,250.00	$1,250.00	1.00	$1,250.00
9.05	SWPPP Management	LS	1	$2,500.00	$2,500.00	1.00	$2,500.00
9.06	Filter Sock, 9 Inch.	LF	1,000	$1.75	$1,750.00	20.00	$35.00
9.07	Removal of Filter Sock, 9 Inch.	LF	1,000	$0.40	$400.00	20.00	$8.00
9.08	Temporary RECP, Type 2C	SY	7,590	$1.26	$9,563.40	5,151.00	$6,490.26
9.09	Revetment, Class E	TON	990	$63.00	$62,370.00	990.00	$62,370.00
9.10	Silt Fence	LF	1,525	$1.75	$2,668.75	0.00	$0.00
9.11	Removal of Silt Fence	LF	1,525	$0.05	$76.25	0.00	$0.00
9.12	Silt Fence for Ditch Checks	LF	250	$1.75	$437.50	0.00	$0.00
9.13	Temporary Field Fence	LF	15	$55.00	$825.00	0.00	$0.00
9.14	Utility Protection Reinforced Concrete Pad	LS	1	$70,000.00	$70,000.00	1.00	$70,000.00
11.01	Construction Survey	LS	1	$15,000.00	$15,000.00	1.00	$15,000.00
11.02	Concrete Washout	LS	1	$5,000.00	$5,000.00	1.00	$5,000.00
11.03	Railroad Protective Liability Insurance for IAIS Railroad Ltd.	LS	1	$10,000.00	$10,000.00	1.00	$10,000.00
11.04	Railroad Protection Services	CDAY	5	$1,792.00	$8,960.00	0.00	$0.00
CO1.1	Changeable Message Signs	CDAY	10	$110.00	$1,100.00	10.00	$1,100.00
2.07	Special Backfill	TON	-350	$30.00	-$10,500.00		
CO3.1	Excavation Class 10, Contractor Provided Borrow	CY	1125	$8.80	$9,900.00	1,125.00	$9,900.00
11	Longitudinal Grooving in Concrete	SY	0.20	$11.00	$2.20		
2.07	Special Backfill	TON	-280.51	$30.00	-$8,415.30		
7.01	Pavement, PCC, 10 Inch., Reinforced	SY	339.00	$85.00	$28,815.00		
7.02	Granular Surfacing	TON	-628.32	$25.50	-$16,022.16		
7.03	Removal of Pavement	SY	10.00	$8.25	$82.50		
7.04	Granular Shoulder	TON	111.93	$41.00	$4,589.13		
7.05	Paved Shoulder, 8 Inch.	SY	-423.50	$75.00	-$31,762.50		
8.01	Painted Pavement Markings, Waterborne or Solvent-Based	STA	8.03	$18.00	$144.54		
8.02	Wet, Retroreflective Removable Tape Markings	STA	-3.25	$175.00	-$568.75		
8.03	Pavement Markings Removed	STA	-17.07	$75.00	-$1,280.25		
8.05	Temporary Barrier Rail	LF	6.00	$25.00	$150.00		
9.01	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 2	ACRE	-3.96	$3,250.00	-$12,870.00		
9.02	Erosion Control Mulching, Hydromulching	ACRE	-5.20	$1,600.00	-$8,320.00		
9.03	Weeding - Chemical Treatment Broadleaf	ACRE	-5.20	$200.00	-$1,040.00		
9.06	Filter Sock, 9 Inch.	LF	-980.00	$1.75	-$1,715.00		
9.07	Removal of Filter Sock, 9 Inch.	LF	-980.00	$0.40	-$392.00		
9.08	Temporary RECP, Type 2C	SY	-2439.00	$1.26	-$3,073.14		
9.10	Silt Fence	LF	-1525.00	$1.75	-$2,668.75		
9.11	Removal of Silt Fence	LF	-1525.00	$0.05	-$76.25		
9.12	Silt Fence for Ditch Checks	LF	-250.00	$1.75	-$437.50		
9.13	Temporary Field Fence	LF	-15.00	$55.00	-$825.00		
11.04	Railroad Protection Services	CDAY	-5.00	$1,792.00	-$8,960.00		
				TOTAL	$1,794,345.81		$1,794,345.81

MATERIALS STORED SUMMARY			
Description	# of Units	Unit Price	Extended Cost
			$0.00
			$0.00
			$0.00
			$0.00
			$0.00
		TOTAL	$0.00

PAY REQUEST SUMMARY		
	Total Approved	Total Completed
Contract Price	$1,858,489.04	$1,794,345.81
Approved Change Order 1	$1,100.00	
Approved Change Order 2	$0.00	
Approved Change Order 3	($600.00)	
Approved Change Order 4	($64,643.23)	
Revised Contract Price	$1,794,345.81	$1,794,345.81
	Materials Stored	$0.00
	Retainage (5%)	$0.00
	Total Earned Less Retainage	$1,794,345.81
Total Previously Approved (list each)	Pay Request 1	$15,437.50
	Pay Request 2	$108,994.50
	Pay Request 3	$38,228.44
	Pay Request 4	$61,329.15
	Pay Request 5	$205,211.64
	Pay Request 6	$247,860.23
	Pay Request 7	$47,614.00
	Pay Request 8	$61,560.00
	Pay Request 9	$315,721.57
	Pay Request 10	$79,669.04
	Pay Request 11	$121,959.34
	Pay Request 12	$11,804.23
	Pay Request 13	$201,273.84
	Pay Request 14	$75,475.12
	Pay Request 15	$33,298.91
	Pay Request 16	$14,725.00
	Pay Request 17	$54,345.41
	Pay Request 18	$69,829.89
	Pay Request 19	$8.00
	Total Previously Approved	$1,764,345.81
	Amount Due This Request	**$30,000.00**
	Percent Complete	100%
	Percent of Contract Period Utilized	100%

The amount $30,000.00 is recommended for approval for payment in accordance with the terms of the Contract

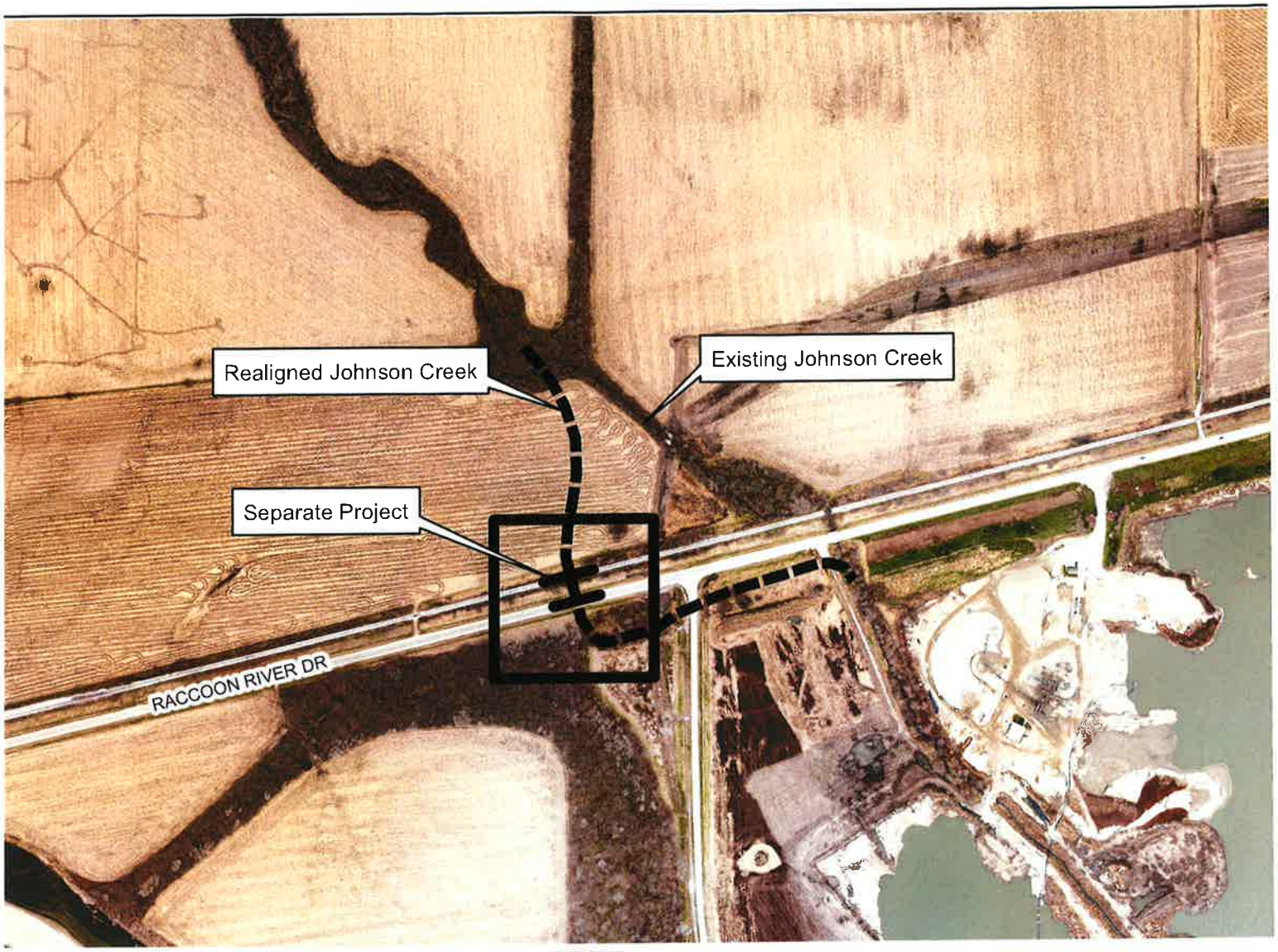
Contractor: United Contractors, Inc	**Recommended By:** SNYDER & ASSOCIATES, INC.	**Checked By:** **City of West Des Moines**
Signature:	Signature:	Signature:
Name: Andy Stone	Name: Gabe Nelson	Name: Brian Hemesath
Title: Vice President	Title: Project Engineer	Title: City Engineer
Date: Dec 5, 2023	Date: Dec 5, 2023	Date: Dec 7, 2023

Signature: Clint Carpenter

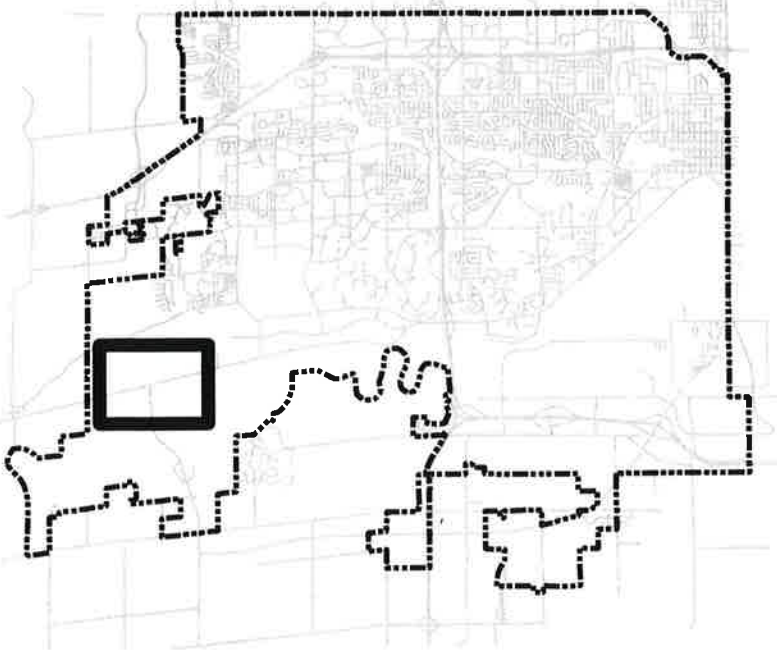
Email: Clint.Carpenter@wdm.iowa.gov

Signature: Jason Schlickbernd (Dec 7, 2023 11:29 CST)

Email: jason.schlickbernd@wdm.iowa.gov



VICINITY MAP



LEGEND

PROJECT LOCATION

BRIDGE

CREEK

N
W E
S

THE CITY OF WEST DES MOINES

PROJECT: **Raccoon River Drive Bridge Over Realigned Johnson Creek**

LOCATION: **Raccoon River Drive & South Grand Prairie Parkway**

DRAWN BY: JPM	DATE: 10/13/2021	PROJECT NUMBER : 0510-051-2015	SHT. 1 of 1