CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: January 2, 2024

ITEM:

Resolution – Accepting Work
2022 Street Reconstruction Program

FINANCIAL IMPACT:

The total construction cost for the 2022 Street Reconstruction Program was $1,480,603.68 which was paid from account no. 500.000.000.5250.490 with the ultimate funding intended to come from Road Use Tax and General Obligation Bonds. The original cost of the project was $1,597,426.83. There were three (3) Change Orders on the project that totaled ($116,823.15). Liquidated damages were assessed in the amount of $14,000.00 for 28 days at $500.00 per day. In addition, $47,186.75 was withheld from the final payment to cover expenditures the City realized in repairing fiber conduit network that Shekar Engineering, PLC damaged during construction. The City utilized an on-call contract to perform the repairs to ensure that the repairs were done satisfactorily.

BACKGROUND:

Shekar Engineering, PLC was working under an agreement dated February 21, 2022 for construction services for the 2022 Street Reconstruction Program. The project involved complete reconstruction of 8th Street from just south of Maple Street to just south of Vine Street. The existing roadway pavement was removed and replaced, including portions of the side streets. Roadway pavement replacement was bid as Portland cement concrete (PCC) Alternate 1 versus hot mixed asphalt (HMA) Alternate 2, but ultimately Alternate 1 was the lowest bid and was selected. Storm sewer crossings and intakes were modified, removed/replaced, and relocated. Driveway approaches were replaced and sidewalks were upgraded at intersections where necessary to facilitate driveway approach replacement. The sidewalk/trail and roadway surface along the west side of 8th Street at the intersections with Maple Street and Elm Street is the lid of a reinforced concrete box culvert which were removed and replaced.

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

This agenda item was distributed to the Public Services Council Subcommittee by e-mail only since there was no meeting.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution Accepting Work for the 2022 Street Reconstruction Program.

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, City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee			
Date Reviewed			
Recommendation	Yes	No	Split

RESOLUTION ACCEPTING WORK

WHEREAS, on February 21, 2022, the City Council entered into a contract with Shekar Engineering, PLC of Des Moines, Iowa, for the following described public improvement:

2022 Street Reconstruction Program
Project No. 0510-001-2022

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 January 2, 2024; and,

WHEREAS, the City has retained $74,030.18 (5%) of the construction costs;

WHEREAS, the City has retained $14,000.00 in liquidated damages;

WHEREAS, the City has withheld $47,186.75 from the final payment to cover expenditures the City realized in repairing fiber conduit network that Shekar Engineering, PLC damaged during construction;

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 $1,480,603.68 as shown in said report, and that the Finance Director is hereby authorized to make payment to the Contractor in the amount of $74,030.18, 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 **2nd** day of **January, 2024**.

_____
Greg Hudson, Presiding Officer

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: **Shekar Engineering, PLC**
2600 MLK Jr. Pkwy., #200
Des Moines, IA 50310

Project Title	**2022 Street Reconstruction Program**
WDM Project File Number	**0510-001-2022**
Purchase Order Number	**2022-00000685**
Orig. Contract Amount & Date	**$1,597,426.83**
Estimated Completion Date	**09/30/22**
Pay Period End Date	**12/4/23**
Pay Request Number	**Retainage**
Date	2/5/24

BID ITEMS

Item No.	Description	Unit	Est. Qty	Unit Price	Extended Price	Quantity Completed	Value Completed
DIVISION 2 EARTHWORK							
2.01	CLEARING AND GRUBBING	LS	1.00	$15,000.00	$15,000.00	1.00	$15,000.00
2.02	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	1066	$10.00	$10,660.00	1066	$10,660.00
2.03	EXCAVATION, CORE-OUT	CY	100	$25.00	$2,500.00	99	$2,467.25
2.04	EARTH SHOULDER FINISHING	STA	39.57	$350.00	$13,849.50	39.57	$13,849.50
2.05	SUBGRADE PREPARATION	SY	9556.3	$10.00	$95,563.00	5038.4	$50,384.40
2.06	SUBGRADE TREATMENT, CEMENT TREATMENT	SY	1991.3	$26.79	$53,346.93	0.0	$0.00
2.07	MODIFIED SUBBASE	SY	8926.3	$11.00	$98,189.30	7955.5	$87,510.72
2.08	SPECIAL BACKFILL	SY	545.4	$30.00	$16,362.00	545.4	$16,362.00
DIVISION 3 TRENCH EXCAVATION AND BACKFILL							
3.01	REPLACEMENT OF UNSUITABLE BACKFILL MATERIA	CY	20	$40.00	$800.00	99	$3,947.60
DIVISION 4 SEWERS AND DRAINS							
4.01	STORM SEWER, TRENCHED, 15 IN. RCP 2000D	LF	137	$155.00	$21,235.00	137	$21,235.00
4.02	STORM SEWER, TRENCHED, 18 IN. RCP 2000D	LF	36	$165.00	$5,940.00	105	$17,318.40
4.03	STORM SEWER, TRENCHED, 18 IN. RCAP 2000D	LF	70	$170.00	$11,900.00	0	$0.00
4.04	STORM SEWER, TRENCHED, 24 IN. RCP 2000D	LF	5	$190.00	$950.00	5	$950.00
4.05	REMOVAL OF STORM SEWER, 12 IN. RCP	LF	8.8	$25.00	$220.00	8.8	$220.00
4.06	REMOVAL OF STORM SEWER, 15 IN. RCP	LF	139.2	$27.00	$3,758.40	139.2	$3,758.40
4.07	REMOVAL OF STORM SEWER, 18 IN. RCP	LF	71.6	$30.00	$2,148.00	71.6	$2,148.00
4.08	REMOVAL OF STORM SEWER, 24 IN. RCP	LF	9.8	$35.00	$343.00	9.8	$343.00
4.09	SUBDRAIN, TYPE 1, CASE C, 6 IN.	LF	2196.3	$15.00	$32,944.50	2196.3	$32,944.50
4.10	SUBDRAIN CLEANOUT, TYPE A-1, 6 IN.	EA	1	$500.00	$500.00	1	$500.00
4.11	SUBDRAIN OUTLETS AND CONNECTIONS, INTO STRUCTURE, 6 IN.	EA	13	$500.00	$6,500.00	9	$4,500.00
DIVISION 5 WATER MAINS AND APPURTENANCES							
5.01	WATER MAIN, TRENCHED, DIP, 8 IN.	LF	60	$135.00	$8,100.00	0	$0.00
DIVISION 6 STRUCTURES FOR SANITARY AND STORM SEWERS							
6.01	INTAKE, SW-503	EA	1	$3,950.00	$3,950.00	1	$3,950.00
6.02	INTAKE, SW-505	EA	3	$4,500.00	$13,500.00	3	$13,500.00
6.03	INTAKE, SW-507	EA	2	$5,000.00	$10,000.00	2	$10,000.00
6.04	INTAKE, SW-509	EA	7	$5,500.00	$38,500.00	7	$38,500.00
6.05	INTAKE ADJUSTMENT, MINOR, SW-501	EA	4	$2,000.00	$8,000.00	4	$8,000.00
6.06	INTAKE ADJUSTMENT, MINOR, SW-505	EA	4	$2,250.00	$9,000.00	4	$9,000.00
6.07	MANHOLE ADJUSTMENT, MINOR	EA	3	$2,000.00	$6,000.00	2	$4,000.00

6.08	CONNECTION TO EXISTING PIPE OR CULVERT	EA	7	$1,250.00	$8,750.00	7	$8,750.00
6.09	REMOVE MANHOLE	EA	2	$1,500.00	$3,000.00	2	$3,000.00
6.10	REMOVE INTAKE	EA	12	$2,000.00	$24,000.00	12	$24,000.00
DIVISION 7 STREETS AND RELATED WORK							
7.01	REMOVAL OF SIDEWALK	SY	319.3	$5.00	$1,596.50	330.0	$1,650.20
7.02	REMOVAL OF DRIVEWAY	SY	930.3	$6.00	$5,581.80	921.0	$5,526.00
7.03	SIDEWALK, PCC, 4 IN.	SY	163.8	$45.00	$7,371.00	170.7	$7,681.05
7.04	SIDEWALK, PCC, 6 IN.	SY	176.5	$53.00	$9,354.50	176.5	$9,354.50
7.05	DETECTABLE WARNING	SF	324	$45.00	$14,580.00	324	$14,580.00
7.06	DRIVEWAY, TYPE A, PCC, 6 IN.	SY	1299.3	$53.00	$68,862.90	1322.2	$70,073.95
7.07	PAVEMENT REMOVAL	SY	7623.5	$18.00	$137,223.00	7623.5	$137,223.00

DIVISION 8 TRAFFIC CONTROL							
8.01	TEMPORARY TRAFFIC CONTROL	LS	1.00	$12,937.50	$12,937.50	1.00	$12,937.50
8.02	REMOVE AND REINSTALL SIGN	EA	2	$862.50	$1,725.00	2	$1,725.00
DIVISION 9 SITE WORK AND LANDSCAPING							
9.01	SOD	SQ	593.0	$126.50	$75,014.50	593.0	$75,014.50
9.02	SWPPP PREPARATION	LS	1.00	$2,300.00	$2,300.00	1.00	$2,300.00
9.03	SWPPP MANAGEMENT	LS	1.00	$4,600.00	$4,600.00	1.00	$4,600.00
9.04	FILTER SOCK, 9 IN.	LF	641	$4.60	$2,948.60	641	$2,948.60
9.05	FILTER SOCK, REMOVAL	LF	641	$1.15	$737.15	641	$737.15
9.06	EROSION CONTROL MULCHING, HYDROMULCHING	AC	1.4	$5,175.00	$7,245.00	0.0	$0.00
9.07	INLET PROTECTION DEVICE	EA	21	$287.50	$6,037.50	21	$6,037.50
9.08	INLET PROTECTION DEVICE, MAINTENANCE	EA	21	$86.25	$1,811.25	21	$1,811.25
DIVISION 11 MISCELLANEOUS							
11.01	CONSTRUCTION SURVEY	LS	1.00	$28,000.00	$28,000.00	1.00	$28,000.00
11.02	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1.00	$5,000.00	$5,000.00	1.00	$5,000.00
11.03	CONCRETE WASHOUT	LS	1.00	$7,500.00	$7,500.00	1.00	$7,500.00
11.04	REMOVE AND REINSTALL JUNCTION BOX	EA	11	$3,500.00	$38,500.00	11	$38,500.00
11.05	PROTECT FIBER LINE	EA	11	$1,500.00	$16,500.00	0	$0.00
11.06	CULVERT REMOVALS	LS	1.00	$7,500.00	$7,500.00	1.00	$7,500.00
11.07	STRUCTURAL CONCRETE	CY	36.2	$850.00	$30,770.00	36.2	$30,770.00
11.08	EPOXY COATED REINFORCING	LB	6442	$3.50	$22,547.00	6442	$22,547.00
11.09	CONCRETE REPAIR	SF	4	$1,000.00	$4,000.00	3	$2,940.00
ALTERNATE 1 - 7 IN. REINFORCED PCC PAVEMENT							
20.01	EXCAVATION, CLASS 10, WASTE	CY	1954	$10.00	$19,540.00	1954	$19,540.00
20.02	PAVEMENT, REINFORCED PCC, 7 IN.	SY	7825.5	$68.00	$532,134.00	7825.5	$532,134.00
CHANGE ORDER 1							
1.01	PDMS Display Boards	Day/EA	14.00	$292.50	$4,095.00	14.00	$4,095.00
1.02	Investigating existing water wervice at old storm intake.	LS	1.00	$3,169.21	$3,169.21	1.00	$3,169.21
1.03	Removing abandoned watermain per LF (3 sections)	LF	16.00	$30.00	$480.00	16.00	$480.00
1.04	Plug cut ends of abandoned watermain with concrete	EA	6	$25.00	$150.00	6	$150.00
CHANGE ORDER 2							
2.01	Temporary access for 536 8th st	TN	50.00	$75.00	$3,750.00	66.06	$4,954.50
2.02	Gate at 504 8th ST - materials	LS	1.00	$80.00	$80.00	1.00	$80.00
2.03	Gate at 504 8th ST - labor	MH	6.00	$45.00	$270.00	6.00	$270.00
2.04	Valve box replacement - valve riser	EA	2	$250.00	$500.00	2.00	$500.00
2.05	Valve box replacement - replacement	EA	2.00	$2,250.00	$4,500.00	2.00	$4,500.00
2.06	Storm MH - labor for demo	MH	28.00	$45.00	$1,260.00	28.00	$1,260.00
2.07	Storm MH - equipment for demo	LS	1.00	$450.00	$450.00	1.00	$450.00
2.08	Storm MH - labor form/cure/strip	MH	36	$45.00	$1,620.00	36.00	$1,620.00
2.09	Storm MH - form Material	LS	1.00	$500.00	$500.00	1.00	$500.00
2.10	Storm MH - concrete	CY	1.00	$195.00	$195.00	1.00	$195.00
2.11	Storm MH - casting	LS	1.00	$1,100.00	$1,100.00	1.00	$1,100.00
2.12	Curb demo - operator labor	MH	6	$50.00	$300.00	6.00	$300.00
2.13	Curb demo - general labor	MH	4.00	$40.00	$160.00	4.00	$160.00
2.14	Curb demo - JD50 Equipment	HR	4.00	$85.00	$340.00	4.00	$340.00
2.15	Curb demo - skidloader equipment	HR	2.00	$75.00	$150.00	2.00	$150.00
2.16	Curb demo - hauling via sub	HR	2	$150.00	$300.00	6.00	$900.00
				TOTAL	**$1,605,321.04**		**$1,480,603.68**

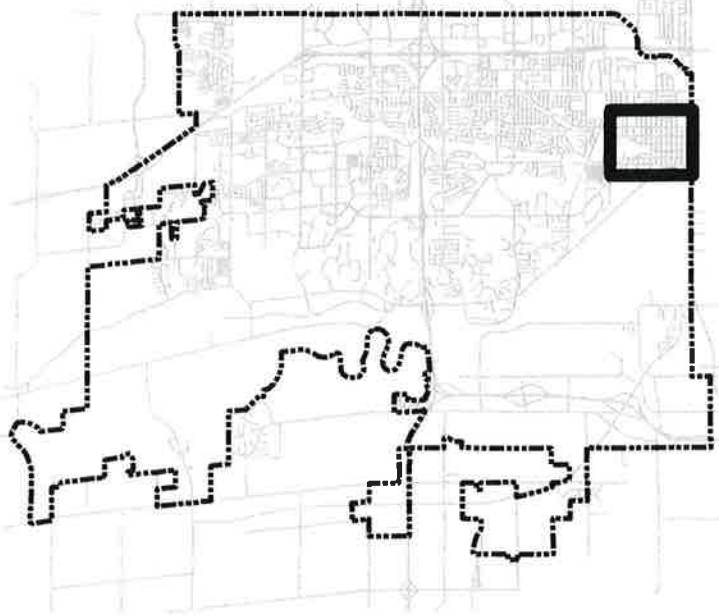
MATERIALS STORED SUMMARY			
Description	**# of Units**	**Unit Price**	**Extended Cost**
			$0.00
			$0.00
		TOTAL	$0.00

PAY REQUEST SUMMARY			
		Total Approved	**Total Completed**
	Contract Price	$1,597,426.83	$1,480,603.68
	Approved Change Order 1	$7,894.21	
	Approved Change Order 2	$15,475.00	
	Approved Change Order 3	($140,192.36)	
	Revised Contract Price	$1,480,603.68	$1,480,603.68
		Less Estimated Grinding and Sealing	$0.00
		Liquidated Damages	$14,000.00
		Conduit Damages	$47,186.75
		Retainage (0%)	$0.00
		Total Earned Less Retainage	$1,419,416.93
Total Previously Approved (list each)	Pay Request 1	$177,077.82	
	Pay Request 2	$380,971.00	
	Pay Request 3	$656,658.63	
	Pay Request 4	$81,477.88	
	Pay Request 5	$32,785.90	
	Pay Request 6	$16,415.52	
		Total Previously Approved	$1,345,386.75
		Amount Due This Request	**$74,030.18**
		Percent Complete	100%
		Percent of Contract Period Utilized	100%

The amount $74,030.18 is recommended for approval for payment in accordance with the terms of the Contract

Contractor: {{Cmpy2_es_:signer2:company }}		**Recommended By:** {{Cmpy1_es_:signer1:company }}		**Checked By:** {{Int_es_:signer3:initials}} {{Int_es_:signer4:initials}} **City of West Des Moines**	
Signature:	{{Sig2_es_:signer2:signature }}	Signature:	{{Sig1_es_:signer1:signature }}	Signature:	{{Sig5_es_:signer5:signature }}
Name:	{{Name2_es_:signer2:fullname}}	Name:	{{Name1_es_:signer1:fullname}}	Name:	{{Name5_es_:signer5:fullname}}
Title:	{{Ttl2_es_:signer2:title }}	Title:	{{Ttl1_es_:signer1:title }}	Title:	{{Ttl5_es_:signer5:title }}
Date:	{{Dte2_es_:signer2:date }}	Date:	{{Dte1_es_:signer1:date }}	Date:	{{Dte5_es_:signer5:date }}

VICINITY MAP



LEGEND

PROJECT LOCATION

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THE CITY OF WEST DES MOINES

PROJECT:

2022 Street Reconstruction Program

LOCATION: **Exhibit "A"**

DRAWN BY: JPM	DATE: 1/4/2022	PROJECT NUMBER/NAME: 0510-001-2022	SHT. 1 of 1