CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: May 3, 2021

ITEM:

Public Hearing (5:35 p.m.)
Fiber Optic Interconnect Orange Route – Phase 1
0510-068-2020

FINANCIAL IMPACT:

The engineering estimate of construction cost was estimated to be $1,769,399.25 for the Fiber Optic Interconnect Orange Route – Phase 1. There were six (6) bids submitted with the low bid of $888,888.88 being submitted by TD&I Cable Maintenance of Lakeland, Minnesota. Payments will be made from account no. 523.000.000.5250.490 with the ultimate funding intended to come from General Obligation Bonds and ultimately reimbursed by Microsoft.

BACKGROUND:

This is the first of a series of projects to provide fiber optic conduit interconnection along Veterans Pkwy and SW Grand Prairie Pkwy between data centers. The Fiber Conduit Interconnect Project Orange Route – Phase 1 includes installation of one 7-way multi-duct conduit, two 1-inch conduits and one 4-inch conduit with a 7-way multi-duct inside, structures and surface restoration along the Veterans Parkway, and SW Grand Prairie Parkway corridors. These corridors are known to have space restrictions affecting utility installation. The four conduits include one multi-duct to be owned by Microsoft to connect the Osmium and Mountain data centers and three additional conduits for future City use and/or lease to other service providers. The project is anticipated to be completed by October 1, 2021.

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

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution adopting Plans, Specifications, Form of Contract, and Estimate of Costs for Fiber Optic Interconnect Orange Route – Phase 1:
- Motion receiving and filing Report of Bids;
- Resolution waiving bid irregularities and awarding the construction contract to TD&I Cable Maintenance.

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	Richard Scieszinski, City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	Des Moines Register
Dates(s) Published	April 23, 2021

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Services		
Date Reviewed			
Recommendation	Yes	No	Split

RESOLUTION APPROVING ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND ESTIMATE OF COST

WHEREAS, on April 5, 2021, Plans, Specifications, Form of Contract, and Estimate of Cost were filed with the City Clerk for the following described public improvement:

Fiber Optic Interconnect Orange Route – Phase 1
Project No. 0510-068-2020

and

WHEREAS, notice of hearing on Plans, Specifications, Form of Contract, and Estimate of Cost for said public improvements were published as required by law;

therefore,

BE IT FURTHER RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, that the Plans, Specifications, Form of Contract, and Estimate of Costs for said Public Improvement are hereby approved.

PASSED AND APPROVED 3rd day of **May, 2021.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

RESOLUTION APPROVING THE AWARDING OF A CONTRACT

WHEREAS, the City Council of the City of West Des Moines has heretofore directed advertisement for bids for the following described public improvement:

Fiber Optic Interconnect Orange Route – Phase 1
Project No. 0510-068-2020

and

WHEREAS, bids have been received and opened by the City Clerk and placed on file by the City Council; and

WHEREAS, irregularities were noted on one of the bids that was received; and

WHEREAS, the irregularities noted were not substantive in nature; and

WHEREAS, the bid of TD&I Cable Maintenance, in the amount of $888,888.88 was the lowest responsible bid received for said public improvement;

therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, waives the irregularities in the bids that were received.

BE IT FURTHER RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that a contract for the Fiber Optic Interconnect Orange Route – Phase 1, is hereby awarded to TD&I Cable Maintenance, in the amount of $888,888.88 and the bond of said bidder for the project is hereby fixed in the same amount.

BE IT FURTHER RESOLVED that the City Engineer is authorized and directed to return bid bond(s) and/or check(s) to any unsuccessful bidder.

BE IT FURTHER RESOLVED that work on said project may commence as soon as the final contract and bond have been approved by the City Engineer and have been signed by the City Clerk and after the contractor is given a written notice to proceed by the City Engineer.

PASSED AND ADOPTED on this **3rd** day of **May, 2021.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

West Des Moines Fiber Conduit Interconnect
Bid Tabulation - Orange Route Phase I
West Des Moines, Iowa
April 28, 2021

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT COST	DIVISION 1 QUANTITY	DIVISION 1 COST	DIVISION 2 QUANTITY	DIVISION 2 COST	TOTAL QUANTITY	TOTAL COST	TD & I QUANTITY	TD & I UNIT PRICE	TD & I PRICE	Castrejon Inc QUANTITY	Castrejon Inc UNIT PRICE	Castrejon Inc PRICE	Communication Data Link QUANTITY	Communication Data Link UNIT PRICE	Communication Data Link PRICE
1	Clearing and Grubbing	LS	$ 5,000.00	0.5	$ 2,500.00	0.5	$ 2,500.00	1	$ 5,000.00	1	$ 1,500.00	$ 1,500.00	1	$ 3,000.00	$ 3,000.00	1	$ 5,000.00	$ 5,000.00
2	Traffic Control	LS	$ 7,500.00	0.5	$ 3,750.00	0.5	$ 3,750.00	1	$ 7,500.00	1	$ 3,100.00	$ 3,100.00	1	$ 2,500.00	$ 2,500.00	1	$ 5,000.00	$ 5,000.00
3	Portland Cement Concrete (PCC) Vault (4'x6'x7'), Furnish and Install	EA	$ 12,000.00	6	$ 72,000.00	0	$ -	6	$ 72,000.00	6	########	$ 91,196.16	6	$ 6,785.00	$ 40,710.00	6	########	$ 72,000.00
4	Handhole (2.5'x4'x4'), Furnish and Install	EA	$ 3,500.00	12	$ 42,000.00	0	$ -	12	$ 42,000.00	12	$ 1,501.40	$ 18,016.80	12	$ 1,135.25	$ 13,623.00	12	$ 2,500.00	$ 30,000.00
5	City-Provided Vault, Install Only, Small Round (DDV)	EA	$ 1,000.00	0	$ -	5	$ 5,000.00	5	$ 5,000.00	5	$ 670.00	$ 3,350.00	5	$ 325.00	$ 1,625.00	5	$ 450.00	$ 2,250.00
6	City-Provided Vault, Install Only, Medium Round (DCV)	EA	$ 1,200.00	0	$ -	2	$ 2,400.00	2	$ 2,400.00	2	$ 870.00	$ 1,740.00	2	$ 525.00	$ 1,050.00	2	$ 450.00	$ 900.00
7	City-Provided Vault, Install Only, Large Round (IAP)	EA	$ 1,500.00	0	$ -	15	$ 22,500.00	15	$ 22,500.00	15	$ 970.00	$ 14,550.00	15	$ 633.30	$ 9,529.50	15	$ 600.00	$ 9,000.00
8	City-Provided Vault, Install Only, Large Rectangular (LAV)	EA	$ 1,750.00	0	$ -	1	$ 1,750.00	1	$ 1,750.00	1	$ 1,520.00	$ 1,520.00	1	$ 865.50	$ 865.50	1	$ 600.00	$ 600.00
9	Conduit, Furnish and Install, SDR 13.5 HDPE, 1 In. Dia. BLUE with black stripe, Duct Bank, Directional Drilled	LF	$ 11.00	0	$ -	39853	$ 438,383.00	39853	$ 438,383.00	39853	$ 2.17	$ 86,481.01	39853	$ 5.35	$ 213,213.55	39853	$ 2.50	$ 99,632.50
10	Conduit, Furnish and Install, SDR 13.5 HDPE, 1 In. Dia. BLUE with black stripe, Duct Bank, Buckeye Pipeline Bore	LF	$ 45.00	0	$ -	100	$ 4,500.00	100	$ 4,500.00	100	$ 7.90	$ 790.00	100	$ 5.35	$ 535.00	100	$ 2.50	$ 250.00
11	Conduit Pathway, Furnish and Install, 7-Way Multi-Duct, Duct Bank, Directional Drilled	LF	$ 13.50	0	$ -	19992	$ 269,892.00	19992	$ 269,892.00	19992	$ 7.25	$ 144,942.00	19992	$ 7.89	$ 157,756.88	19992	$ 9.00	$ 179,928.00
12	Conduit Pathway, Furnish and Install, 7-Way Multi-Duct, Duct Bank, Buckeye Pipeline Bore	LF	$ 51.00	0	$ -	50	$ 2,550.00	50	$ 2,550.00	50	$ 7.90	$ 395.00	50	$ 7.89	$ 394.50	50	$ 9.00	$ 450.00
13	Conduit, Furnish and Install, SDR 11 HDPE, 4 IN. DIA., Duct Bank, Directional Drilled	LF	$ 31.00	17120	$ 530,720.00	0	$ -	17120	$ 530,720.00	17120	$ 16.27	$ 278,542.40	17120	$ 11.56	$ 197,907.20	17120	$ 15.00	$ 256,800.00
14	Conduit, Furnish and Install, SDR 11 HDPE, 4 IN. DIA., Duct Bank, Buckeye Pipeline Bore	LF	$ 75.00	50	$ 3,750.00	0	$ -	50	$ 3,750.00	50	$ 7.90	$ 395.00	50	$ 11.56	$ 578.00	50	$ 15.00	$ 750.00
15	Conduit, Furnish and Install, SDR 11 HDPE, 4 IN. DIA., Stand-alone, Directional Drilled	LF	$ 18.50	3676	$ 68,006.00	0	$ -	3676	$ 68,006.00	3676	$ 17.27	$ 63,484.52	3676	$ 11.56	$ 42,494.56	3676	$ 15.00	$ 55,140.00
16	Conduit Pathway, Furnish and Install, 7-Way Multi-Duct, Installed-in-place	LF	$ 5.25	21005	$ 110,276.25	0	$ -	21005	$ 110,276.25	21005	$ 4.25	$ 89,271.25	21005	$ 6.22	$ 131,456.10	21005	$ 5.00	$ 105,025.00
17	Conduit, Furnish and Install, SDR 13.5 HDPE, 1.5 IN. DIA., ORANGE, Directional Drilled	LF	$ 10.00	0	$ -	1338	$ 13,380.00	1338	$ 13,380.00	1338	$ 2.73	$ 3,652.74	1338	$ 3.25	$ 4,348.50	1338	$ 6.00	$ 8,028.00
18	Conduit, Furnish and Install, SDR 13.5 HDPE, 1.5 IN. DIA., BLUE, Directional Drilled	LF	$ 10.00	0	$ -	1338	$ 13,380.00	1338	$ 13,380.00	1338	$ 2.73	$ 3,652.74	1338	$ 3.25	$ 4,348.50	1338	$ 6.00	$ 8,028.00
19	Conduit, Furnish and Install, SDR 13.5 HDPE, 1.5 IN. DIA. GREEN, Directional Drilled	LF	$ 24.00	0	$ -	713	$ 17,112.00	713	$ 17,112.00	713	$ 2.73	$ 1,946.49	713	$ 3.25	$ 2,317.25	713	$ 11.00	$ 7,843.00
20	Silt Fence or Filter Sock	LF	$ 2.00	5000	$ 10,000.00	5000	$ 10,000.00	10000	$ 20,000.00	10000	$ 0.70	$ 7,000.00	10000	$ 2.25	$ 22,500.00	10000	$ 2.00	$ 20,000.00
21	Maintenance of Silt Fence or Filter Sock	LF	$ 1.50	5000	$ 7,500.00	5000	$ 7,500.00	10000	$ 15,000.00	10000	$ 0.20	$ 2,000.00	10000	$ 0.40	$ 4,000.00	10000	$ 1.00	$ 10,000.00
22	Removal of Silt Fence or Filter Sock	LF	$ 0.50	5000	$ 2,500.00	5000	$ 2,500.00	10000	$ 5,000.00	10000	$ 0.10	$ 1,000.00	10000	$ 0.83	$ 8,300.00	10000	$ 1.00	$ 10,000.00
23	Hydraulic Seeding, Fertilizing and Mulching	ACRE	$ 6,500.00	1	$ 6,500.00	1	$ 6,500.00	2	$ 13,000.00	2	$ 3,000.00	$ 10,000.00	2	$ 0.31	$ 0.62	2	$ 4,000.00	$ 8,000.00
24	Erosion Control Mulching, Conventional	ACRE	$ 1,500.00	2	$ 3,000.00	2	$ 3,000.00	4	$ 6,000.00	4	$ 2,250.00	$ 9,000.00	4	$ 0.14	$ 0.56	4	$ 2,000.00	$ 8,000.00
25	Test Station/Fiber Optic Line Marker Combination, Above Grade, Furnish and Install	EA	$ 300.00	9	$ 2,700.00	0	$ -	9	$ 2,700.00	9	$ 164.63	$ 1,481.67	9	$ 89.00	$ 801.00	9	$ 200.00	$ 1,800.00
26	Test Station, Below Grade, Furnish and Install	EA	$ 500.00	0	$ -	15	$ 7,500.00	15	$ 7,500.00	15	$ 180.99	$ 2,714.85	15	$ 105.00	$ 1,575.00	15	$ 150.00	$ 2,250.00
27	Permit Requirements	LS	$ 6,500.00	0.5	$ 3,250.00	0.5	$ 3,250.00	1	$ 6,500.00	1	$ 750.00	$ 750.00	1	$ 5,000.00	$ 5,000.00	1	$ 3,000.00	$ 3,000.00
28	As-Built Documentation	LS	$ 7,000.00	0.5	$ 3,500.00	0.5	$ 3,500.00	1	$ 7,000.00	1	$ 6,315.69	$ 6,315.69	1	$ 3,500.00	$ 3,500.00	1	########	$ 10,000.00
29	Construction Survey	LS	$ 12,000.00	0.5	$ 6,000.00	0.5	$ 6,000.00	1	$ 12,000.00	1	$ 8,000.00	$ 8,000.00	1	########	$ 30,000.00	1	########	$ 12,000.00
30	Conduit and Tracer Wire Acceptance Testing	LS	$ 10,000.00	0.5	$ 5,000.00	0.5	$ 5,000.00	1	$ 10,000.00	1	########	$ 12,700.00	1	$ 5,500.00	$ 5,500.00	1	$ 8,000.00	$ 8,000.00
31	Field Tile Repair	LF	$ 150.00	100	$ 15,000.00	100	$ 15,000.00	200	$ 30,000.00	200	$ 30.00	$ 6,000.00	200	$ 9.25	$ 1,850.00	200	$ 200.00	$ 40,000.00
32	Full Depth Reinforced PCC Patch	SY	$ 150.00	14	$ 2,100.00	0	$ -	14	$ 2,100.00	14	$ 370.34	$ 5,184.76	14	$ 250.00	$ 3,500.00	14	$ 500.00	$ 7,000.00
33	Full Depth Non-reinforced PCC Patch	SY	$ 125.00	0	$ -	20	$ 2,500.00	20	$ 2,500.00	20	$ 260.79	$ 5,215.80	20	$ 225.00	$ 4,500.00	20	$ 400.00	$ 8,000.00
			TOTAL:		$ 900,052.25		$ 869,347.00		$ 1,769,399.25			$ [illegible]			$ 939,266.22			$ 994,674.50

** Unit Price Extension Discrepancy
** Total Price Discrepancy

DIVISION 1 = ORANGE ROUTE PHASE I = ONE 4-INCH CONDUIT DRILLED & 7-WAY HDPE MULTI-DUCT PATHWAY INSTALLED-IN-PLACE
DIVISION 2 = OPEN ACCESS NETWORK = TWO 1-INCH HDPE CONDUITS DRILLED + ONE 7-WAY HDPE MULTI-DUCT PATHWAY DRILLED + MULTIPLE 1.5-INCH CONDUITS DRILLED

Network Cabling Infrastructures QUANTITY	UNIT PRICE	PRICE	Kramer Service Group QUANTITY	UNIT PRICE	PRICE	MP Nexlevel QUANTITY	UNIT PRICE	PRICE
1	$ 6,930.00	$ 6,930.00	1	$ 2,500.00	$ 2,500.00	1	########	$ 12,000.00
1	$ 7,560.00	$ 7,560.00	1	$ 5,000.00	$ 5,000.00	1	########	$ 13,146.28
6	########	$ 114,288.00	6	########	$ 84,000.00	6	########	$ 65,073.48
12	$ 3,514.42	$ 42,173.04	12	$ 7,500.00	$ 90,000.00	12	$ 2,697.78	$ 32,373.36
5	$ 214.20	$ 1,071.00	5	$ 425.00	$ 2,125.00	5	$ 334.60	$ 1,673.00
2	$ 535.50	$ 1,071.00	2	$ 475.00	$ 950.00	2	$ 494.19	$ 988.38
15	$ 572.74	$ 8,591.10	15	$ 600.00	$ 9,000.00	15	$ 575.60	$ 8,634.00
1	$ 882.00	$ 882.00	1	$ 600.00	$ 600.00	1	$ 549.00	$ 549.00
39853	$ 1.42	$ 56,591.26	39853	$ 6.00	$ 239,118.00	39853	$ 1.41	$ 56,197.73
100	$ 1.32	$ 132.00	100	$ 100.00	$ 10,000.00	100	$ 1.41	$ 141.00
19992	$ 11.02	$ 220,311.84	19992	$ 15.00	$ 299,880.00	19992	$ 14.52	$ 290,283.84
50	$ 10.68	$ 534.00	50	$ 100.00	$ 5,000.00	50	$ 14.52	$ 726.00
17120	$ 20.33	$ 348,049.60	17120	$ 15.00	$ 256,800.00	17120	$ 19.22	$ 329,046.40
50	$ 18.39	$ 919.50	50	$ 100.00	$ 5,000.00	50	$ 19.22	$ 961.00
3676	$ 19.14	$ 70,338.64	3676	$ 20.00	$ 73,520.00	3676	$ 19.22	$ 70,652.72
21005	$ 4.22	$ 88,641.10	21005	$ 7.00	$ 147,035.00	21005	$ 4.57	$ 95,992.85
1338	$ 4.41	$ 5,900.58	1338	$ 9.50	$ 12,711.00	1338	$ 2.01	$ 2,689.38
1338	$ 4.41	$ 5,900.58	1338	$ 9.50	$ 12,711.00	1338	$ 2.01	$ 2,689.38
713	$ 4.41	$ 3,144.33	713	$ 15.00	$ 10,695.00	713	$ 2.01	$ 1,433.13
10000	$ 1.22	$ 12,200.00	10000	$ 1.00	$ 10,000.00	10000	$ 8.00	$ 80,000.00
10000	$ 0.63	$ 6,300.00	10000	$ 0.25	$ 2,500.00	10000	$ 3.65	$ 36,500.00
10000	$ 0.92	$ 9,200.00	10000	$ 0.25	$ 2,500.00	10000	$ 3.65	$ 36,500.00
2	$ 8,322.30	$ 16,644.60	2	$ 2,500.00	$ 5,000.00	2	########	$ 134,346.00
4	$ 2,331.00	$ 9,324.00	4	$ 500.00	$ 2,000.00	4	########	$ 46,718.12
9	$ 86.00	$ 774.00	9	$ 100.00	$ 900.00	9	$ 203.90	$ 1,835.10
15	$ 86.00	$ 1,290.00	15	$ 100.00	$ 1,500.00	15	$ 161.74	$ 2,426.10
1	$ 5,870.00	$ 5,870.00	1	$ 100.00	$ 100.00	1	$ 110.00	$ 110.00
1	########	$ 11,340.00	1	########	$ 15,000.00	1	$ 4,147.00	$ 4,147.00
1	########	$ 22,050.00	1	########	$ 10,000.00	1	########	$ 10,276.00
1	$ 8,093.00	$ 8,093.00	1	$ 5,000.00	$ 5,000.00	1	########	$ 12,000.00
200	$ 75.60	$ 15,120.00	200	$ 100.00	$ 20,000.00	200	$ 100.00	$ 20,000.00
14	$ 283.50	$ 3,969.00	14	$ 500.00	$ 7,000.00	14	$ 460.50	$ 6,447.00
20	$ 226.80	$ 4,536.00	20	$ 350.00	$ 7,000.00	20	$ 324.28	$ 6,485.60
		$ 1,109,560.17			$ 1,335,345.00			$ 1,383,056.87

** Unit Price Extension Discrepancy
** Total Price Discrepancy

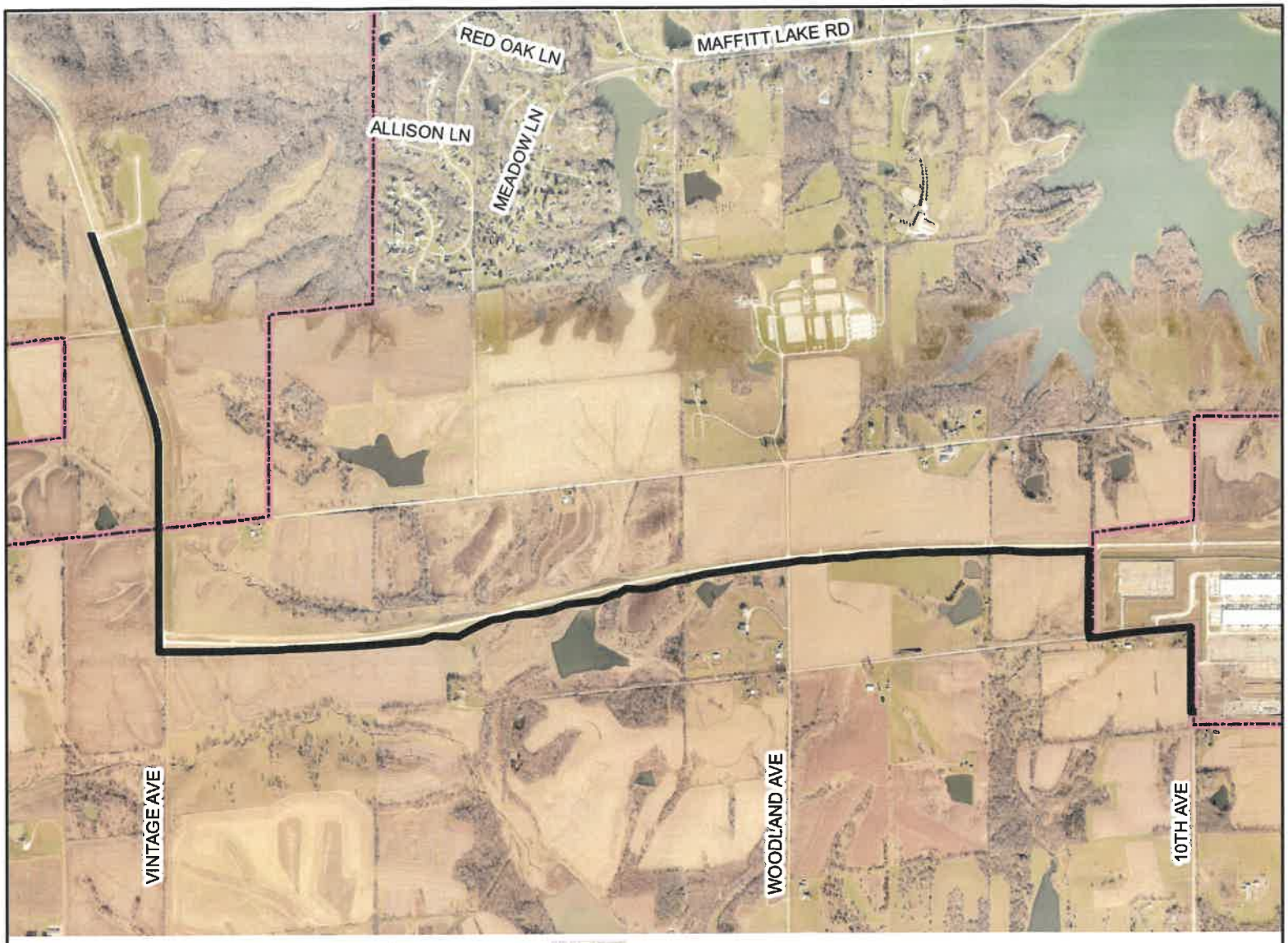
LICENSED PROFESSIONAL ENGINEER
GARY L. REED
13840
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

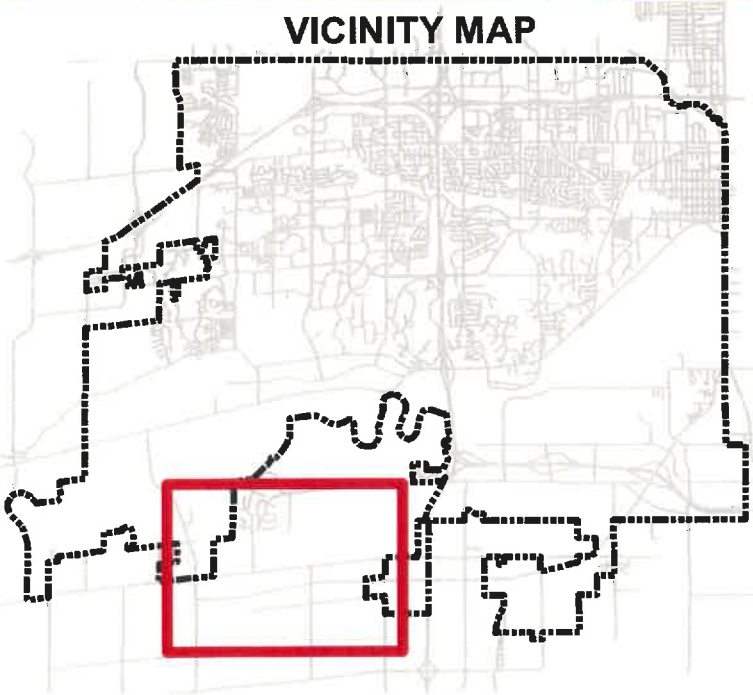
GARY L. REED, P.E. — DATE: 4-28-2021

LICENSE NUMBER 13840
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022
PAGES OR SHEETS COVERED BY THIS SEAL:
Bid Tab - Orange Route 1

** This bid tab is an accurate tabulation of the bids received with the discrepancies as noted. **



VICINITY MAP



LEGEND

PROJECT LOCATION

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W E
S

THE CITY OF WEST DES MOINES

PROJECT:

Fiber Optic Interconnect Orange Route Phase 1

LOCATION: **Exhibit "A"**

DRAWN BY: BJM	DATE: 3/29/2021	PROJECT NUMBER/NAME: 0510-068-2020	SHT. 1 of 1