CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: September 3, 2019

ITEM:

Resolution - Ordering Construction
Fiber Conduit Interconnect Project - Purple Route & Duct Bank
0510-062-2018

FINANCIAL IMPACT:

The Engineering Estimate of Construction Cost for the Fiber Conduit Interconnect Project - Purple Route & Duct Bank is $2,824,993.00. Payments will be made from account no. 500.000.000.5250.490. The project includes two (2) divisions. For Division 1 ($1,128,133.00) the City is acting as the coordinating agency; Microsoft is providing all funding and will reimburse the City as invoiced. Division 2 ($1,696,860.00) is City costs paid from the Alluvion TIF (30%) and Osmium TIF (70%).

BACKGROUND:

A Bid Letting should be scheduled for 2:00 p.m. on Wednesday, October 2, 2019, and a Public Hearing on the project should be scheduled for 5:35 p.m. on Monday, October 7, 2019. The contract would be awarded on Monday, October 7, 2019, and work will begin shortly thereafter.

The Fiber Conduit Interconnect Project - Purple Route & Duct Bank includes installation of one 6-way multi-duct conduit, two 2" conduits and one 7-way multi-duct conduit, structures and surface restoration along the Veterans Parkway, Maffitt Lake Road, SE Soteria Drive, and Iowa Highway 5 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 Alluvion and Osmium 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 April 30, 2020.

This agenda item was distributed to the Public Services Subcommittee by e-mail only.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:
- Resolution Ordering Construction of the Fiber Conduit Interconnect Project - Purple Route & Duct Bank.
- Fixing 2:00 p.m. on Wednesday, October 2, 2019, as the time and date for project Bid Letting.
- Ordering the City Clerk to publish notice of Letting and Public Hearing.

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 RJS
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee			
Date Reviewed			
Recommendation	Yes	No	Split

RESOLUTION ORDERING CONSTRUCTION AND NOTICE OF PUBLIC HEARING ON PLANS, SPECIFICATIONS, FORM OF CONTRACT, ESTIMATE OF COST, AND DIRECTING ADVERTISEMENT FOR BIDS

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that the following described public improvement:

Fiber Conduit Interconnect Project - Purple Route & Duct Bank
Project No. 0510-062-2018

is hereby ordered to be constructed according to the Plans and Specifications prepared by Civil Design Advantage of Grimes, Iowa and now on file in the office of the City Clerk.

BE IT FURTHER RESOLVED, that the detailed Plans and Specifications, Form of Contract, Bid Security, and Notice to Bidders are hereby approved, subject to hearing thereon, and that the same are now on file in the office of the City Clerk for public inspection.

BE IT FURTHER RESOLVED, that the City Clerk is hereby directed to publish notice of hearing on the Plans and Specifications, Form of Contract, Bid Security and Estimate of Costs for said project to be held at 5:35 p.m. on Monday, October 7, 2019, with said notice published not less than four (4) days nor more than twenty (20) days prior to the date heretofore fixed.

BE IT FURTHER RESOLVED, that the City Clerk is hereby directed to publish Notice to Bidders for said project with publication not less than thirteen (13) days nor more than forty-five (45) days prior to the date for receiving bids. Said bids are to be filed prior to 2:00 p.m. on Wednesday, October 2, 2019.

BE IT FURTHER RESOLVED, that the bids received for construction of said improvements will be opened, publicly read and tabulated by the City Clerk, Deputy City Clerk, or City Clerk designee at 2:00 p.m. on Wednesday, October 2, 2019, and the results of said bids shall be considered at a meeting of this Council on Monday, October 7, 2019, at 5:35 p.m. and acted upon at said time, or such time as may then be fixed.

PASSED AND APPROVED 3rd day of **September, 2019.**

Steven K. Gaer, Mayor

ATTEST:

Ryan T. Jacobson, City Clerk

West Des Moines Fiber Conduit Interconnect

Engineer's Cost Opinion - Purple Route + Duct Bank

West Des Moines, Iowa

August 27, 2019

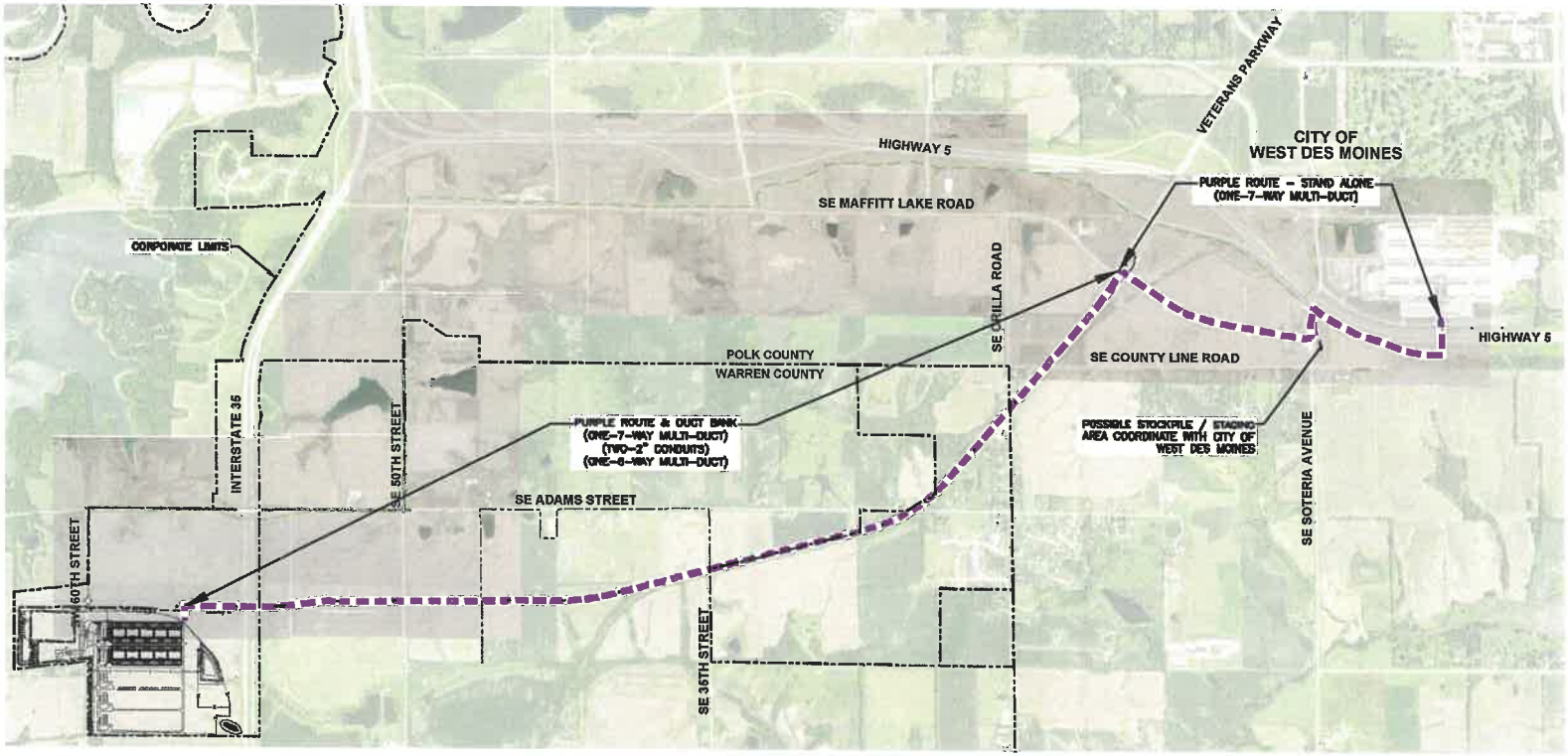
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT COST	DIVISION 1 QUANTITY	DIVISION 1 COST	DIVISION 2 QUANTITY	DIVISION 2 COST	TOTAL QUANTITY	TOTAL COST
1	Clearing and Grubbing	LS	$ 10,000.00	0.5	$ 5,000.00	0.5	$ 5,000.00	1	$ 10,000.00
2	Traffic Control	LS	$ 10,000.00	0.5	$ 5,000.00	0.5	$ 5,000.00	1	$ 10,000.00
3	P.C.C. Vault (4'x6'x7'), Furnish and Install	EA	$ 13,000.00	13	$ 169,000.00	0	$ -	13	$ 169,000.00
4	Primary Pull Box (48"x48"x48"), Furnish and Install	EA	$ 8,500.00	0	$ -	39	$ 331,500.00	39	$ 331,500.00
5	Pull Box (2.5'x4'x4'), Furnish and Install	EA	$ 3,000.00	37	$ 111,000.00	0	$ -	37	$ 111,000.00
6	Conduit, Schedule 40 HDPE, 2 In. Dia., Duct Bank	LF	$ 15.00	0	$ -	37656	$ 564,840.00	37656	$ 564,840.00
7	Conduit Pathway, 6-Way Multi-Duct, Duct Bank	LF	$ 30.00	0	$ -	18828	$ 564,840.00	18828	$ 564,840.00
8	Conduit Pathway, 7-Way Multi-Duct, Duct Bank	LF	$ 21.00	18821	$ 395,241.00	0	$ -	18821	$ 395,241.00
9	Conduit Pathway, 7-Way Multi-Duct, Stand Alone	LF	$ 15.00	7132	$ 106,980.00	0	$ -	7132	$ 106,980.00
10	Silt Fence or Filter Sock	LF	$ 4.50	16636	$ 74,862.00	9505	$ 42,772.50	26141	$ 117,634.50
11	Maintenance of Silt Fence or Filter Sock	LF	$ 1.50	16636	$ 24,954.00	9505	$ 14,257.50	26141	$ 39,211.50
12	Removal of Silt Fence or Filter Sock	LF	$ 1.00	16636	$ 16,636.00	9505	$ 9,505.00	26141	$ 26,141.00
13	Inlet Protection Devices	EA	$ 250.00	37	$ 9,250.00	34	$ 8,500.00	71	$ 17,750.00
14	Hydraulic Seeding, Fertilizing and Mulching, Type 1	ACRE	$ 8,000.00	7.7	$ 61,600.00	4.4	$ 35,200.00	12.1	$ 96,800.00
15	Erosion Control Mulching, Conventional	ACRE	$ 6,800.00	7.7	$ 52,360.00	4.4	$ 29,920.00	12.1	$ 82,280.00
16	Fiber Optic Line Marker	EA	$ 325.00	50	$ 16,250.00	17	$ 5,525.00	67	$ 21,775.00
17	Permit Requirements	LS	$ 15,000.00	0.5	$ 7,500.00	0.5	$ 7,500.00	1	$ 15,000.00
18	As-Built Documentation	LS	$ 25,000.00	0.5	$ 12,500.00	0.5	$ 12,500.00	1	$ 25,000.00
19	Construction Survey	LS	$ 45,000.00	0.5	$ 22,500.00	0.5	$ 22,500.00	1	$ 45,000.00
20	Conduit and Tracer Wire Acceptance Testing	LS	$ 60,000.00	0.5	$ 30,000.00	0.5	$ 30,000.00	1	$ 60,000.00
21	Field Tile Repair	LF	$ 25.00	50	$ 1,250.00	50	$ 1,250.00	100	$ 2,500.00
22	SWPPP Management	LS	$ 12,500.00	0.5	$ 6,250.00	0.5	$ 6,250.00	1	$ 12,500.00
			Subtotal		$ 1,128,133.00		$ 1,696,860.00		$ 2,824,993.00
			Grand Total						**$ 2,824,993.00**

DIVISION 1 = PURPLE ROUTE = ONE 7-WAY HDPE MULTI-DUCT PATHWAY

DIVISION 2 = DUCT BANK = TWO 2" HDPE CONDUITS + ONE 6-WAY HDPE MULTI-DUCT PATHWAY

Notes:

1. Construction cost estimate does not include any annual (or other) Iowa DOT occupancy fees.
2. Construction cost estimate is based on installing one 6-way, one 7-way and two 2-inch HDPE conduits.



PURPLE ROUTE & DUCT BANK

REVISIONS	DATE
FIFTH SUBMITTAL	12-20-10
FIFTH SUBMITTAL	12-20-10
FOURTH SUBMITTAL	7-25-10
THIRD SUBMITTAL	4-12-10
SECOND SUBMITTAL	2-04-10
FIRST SUBMITTAL	9-14-09

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: GLR TECH: BGK
CIVIL DESIGN ADVANTAGE

FIBER CONDUIT INTER-CONNECT PROJECT (PURPLE ROUTE)

VICINITY MAP

WEST DES MOINES, IOWA

D.00

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