CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: September 7, 2021

ITEM:

Resolution - Ordering Construction
Grand Avenue – South Grand Prairie Parkway to South 115th Street

FINANCIAL IMPACT:

The Engineering Estimate of Construction Cost for Grand Avenue – South Grand Prairie Parkway to South 115th Street is $9,064,967.25. Payments will be made from account no. 500.000.000.5250.490 with the ultimate funding intended to come from Grand Prairie Parkway Urban Renewal Area TIF.

BACKGROUND:

A Bid Letting should be scheduled for 2:00 p.m. on Wednesday, September 29, 2021 and a Public Hearing on the project should be scheduled for 5:35 p.m. on Monday, October 4, 2021. The contract would be awarded on Monday, October 4, 2021 and work will begin shortly thereafter.

The project includes the construction of Grand Avenue from South Grand Prairie Parkway to South 115th Street as part of Microsoft's Ginger West development. Grand Avenue (minor arterial) is being constructed as three lanes on the eastern portion where the roadway crosses the proposed Johnson Creek bridge and ties into the South Grand Prairie Parkway intersection, but will only be two lanes on the western portion of the roadway. In order to provide water service and looping to the southern portion of the Microsoft Ginger West site, watermain will also be extended along South Grand Prairie Parkway as part of this project along with a meter pit near the South Grand Prairie Parkway bridge. The project will include grading, storm sewer, sanitary sewer, watermain, fiber conduit inter-connect (City's open access conduit network and Microsoft conduit), paving, multi-use trail, channel excavation, and other miscellaneous work. Work associated with the Grand Avenue Bridge over Johnson Creek will be bid separately upon successful receipt of permit approvals. Close coordination with Microsoft has already taken place and will continue. All watermain and fiber conduit shall be installed and operational by July 1, 2022. The remainder of the project is anticipated to be completed by November 1, 2022.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution Ordering Construction of the Grand Avenue – South Grand Prairie Parkway to South 115th Street.
- Fixing 2:00 p.m. on Wednesday, September 29, 2021 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
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Services		
Date Reviewed	August 23, 2021		
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:

Grand Avenue – South Grand Prairie Parkway to South 115th Street
Project No. 0510-010-2021

is hereby ordered to be constructed according to the Plans and Specifications prepared by Snyder & Associates, Inc. of Ankeny, 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 4, 2021, 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, September 29, 2021.

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, September 29, 2021 and the results of said bids shall be considered at a meeting of this Council on Monday, October 4, 2021 at 5:35 p.m. and acted upon at said time, or such time as may then be fixed.

PASSED AND APPROVED on this **7th** day of **September, 2021.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

OPINION OF PROBABLE CONSTRUCTION COSTS

SNYDER & ASSOCIATES

GRAND AVE - S. GRAND PRAIRIE PARKWAY TO S. 115TH STREET
West Des Moines, Iowa
0510-010-2021

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	EARTHWORK				
2.01	CLEARING AND GRUBBING	1	LS	$ 40,000.00	$ 40,000.00
2.02	TOPSOIL STRIP, SALVAGE, AND RESPREAD	47,300	CY	$ 5.00	$ 236,500.00
2.03	EXCAVATION, CLASS 10, ROADWAY AND BORROW	46,525	CY	$ 4.00	$ 186,100.00
2.04	EXCAVATION, CLASS 10, CONTRACTOR FURNISHED	137,550	CY	$ 8.00	$ 1,100,400.00
2.05	SUBGRADE PREPARATION, 12 INCH.	21,587	SY	$ 4.00	$ 86,348.00
2.06	MODIFIED SUBBASE, 6 INCH.	21,587	SY	$ 10.00	$ 215,870.00
2.07	SPECIAL BACKFILL	1,475	TON	$ 30.00	$ 44,250.00
2.08	REMOVAL OF EXISTING DEBRIS	1	LS	$ 15,000.00	$ 15,000.00
	SEWERS AND DRAINS				
4.01	STORM SEWER, TRENCHED, 15"	1,113	LF	$ 70.00	$ 77,910.00
4.02	STORM SEWER, TRENCHED, 18"	616	LF	$ 75.00	$ 46,200.00
4.03	STORM SEWER, TRENCHED, 24"	915	LF	$ 85.00	$ 77,775.00
4.04	STORM SEWER, TRENCHED, 30"	1,224	LF	$ 105.00	$ 128,520.00
4.05	STORM SEWER, TRENCHED, 36"	946	LF	$ 130.00	$ 122,980.00
4.06	PIPE CULVERT, TRENCHED, CMP, 30"	36	LF	$ 80.00	$ 2,880.00
4.07	PIPE APRON W/ FOOTING AND APRON GUARD, CONCRETE, 18"	2	EA	$ 3,000.00	$ 6,000.00
4.08	PIPE APRON W/ FOOTING AND APRON GUARD, CONCRETE, 36"	1	EA	$ 5,500.00	$ 5,500.00
4.09	PIPE APRON, CMP, 30"	2	EA	$ 1,100.00	$ 2,200.00
4.10	SUBDRAIN, PVC, 6 INCH.	9,425	LF	$ 18.00	$ 169,650.00
4.11	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 8"	72	EA	$ 375.00	$ 27,000.00
	WATER MAIN AND APPURTENANCES				
5.01	WATER MAIN, TRENCHED, PVC, 12"	25	LF	$ 50.00	$ 1,250.00
5.02	WATER MAIN, TRENCHED, PVC, 16"	4,248	LF	$ 90.00	$ 382,320.00
5.03	WATER MAIN, TRENCHED, DIP, 16"	440	LF	$ 110.00	$ 48,400.00
5.04	FITTINGS, WATER MAIN	3,436	LB	$ 10.00	$ 34,360.00
5.05	VALVE, GATE, 16"	12	EA	$ 7,000.00	$ 84,000.00
5.06	FIRE HYDRANT ASSEMBLY	11	EA	$ 6,500.00	$ 71,500.00
	STRUCTURES FOR SANITARY AND STORM				
6.01	MANHOLE, SW-401, 48"	1	EA	$ 4,000.00	$ 4,000.00
6.02	MANHOLE, SW-401, 60"	1	EA	$ 6,000.00	$ 6,000.00
6.03	MANHOLE, SW-401, 84"	1	EA	$ 15,000.00	$ 15,000.00
6.04	INTAKE, SW-501	8	EA	$ 4,000.00	$ 32,000.00
6.05	INTAKE, SW-503	7	EA	$ 4,500.00	$ 31,500.00
6.06	INTAKE, SW-503, MODIFIED	1	EA	$ 5,000.00	$ 5,000.00
6.07	INTAKE, SW-505	9	EA	$ 5,000.00	$ 45,000.00
6.08	INTAKE, SW-506	6	EA	$ 7,200.00	$ 43,200.00
6.09	INTAKE, SW-506, MODIFIED	3	EA	$ 8,000.00	$ 24,000.00
6.10	FIELD TILE, 12"	178	LF	$ 60.00	$ 10,680.00

OPINION OF PROBABLE CONSTRUCTION COSTS

SNYDER & ASSOCIATES

GRAND AVE - S. GRAND PRAIRIE PARKWAY TO S. 115TH STREET
West Des Moines, Iowa
0510-010-2021

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	STREETS AND RELATED WORK				
7.01	PAVEMENT, PCC, 9 INCH., REINFORCED	16,425	SY	$ 65.00	$ 1,067,625.00
7.02	PAVEMENT, PCC, 10 INCH., REINFORCED	1,662	SY	$ 80.00	$ 132,960.00
7.03	SHARED USE PATH, PCC, REINFORCED, 6 IN.	4,810	SY	$ 55.00	$ 264,550.00
7.04	SPECIAL SUBGRADE PREPARATION FOR SHARED USE PATH	4,810	SY	$ 40.00	$ 192,400.00
7.05	DETECTABLE WARNINGS	26	SF	$ 40.00	$ 1,040.00
7.06	GRANULAR SURFACING	850	TON	$ 30.00	$ 25,500.00
7.07	GRANULAR SHOULDER	305	TON	$ 25.00	$ 7,625.00
7.08	TEMPORARY DETOUR PAVEMENT	3,699	SY	$ 60.00	$ 221,940.00
7.09	PAVEMENT REMOVAL	3,699	SY	$ 18.00	$ 66,582.00
7.10	DRIVEWAY PAVED, PCC, 7"	485	SY	$ 80.00	$ 38,800.00
	TRAFFIC CONTROL				
8.01	PERMANENT ROAD CLOSURE, URBAN	1	LS	$ 1,500.00	$ 1,500.00
8.02	TEMPORARY TRAFFIC CONTROL	1	LS	$ 15,000.00	$ 15,000.00
8.03	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	56.50	STA	$ 100.00	$ 5,650.00
8.04	PAINTED SYMBOLS AND LEGENDS, DURABLE	11	EA	$ 125.00	$ 1,375.00
	SITE WORK AND LANDSCAPING				
9.01	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, RESCUE PLUS	35.4	ACRE	$ 2,750.00	$ 97,350.00
9.02	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 2	13.2	ACRE	$ 2,500.00	$ 33,000.00
9.03	EROSION CONTROL MULCHING, HYDROMULCHING	50.0	ACRE	$ 1,500.00	$ 75,000.00
9.04	WEEDING - CHEMICAL TREATMENT BROADLEAF	50.0	ACRE	$ 200.00	$ 10,000.00
9.05	SWPPP PREPARATION	1	LS	$ 3,000.00	$ 3,000.00
9.06	SWPPP MANAGEMENT	1	LS	$ 5,000.00	$ 5,000.00
9.07	FILTER SOCK, 9 INCH.	11,257	LF	$ 3.00	$ 33,771.00
9.08	REMOVAL OF FILTER SOCK, 9 INCH.	11,257	LF	$ 1.00	$ 11,257.00
9.09	TEMPORARY RECP, TYPE 2C	4,500	SY	$ 3.00	$ 13,500.00
9.10	REVETMENT, CLASS E	7,500	TON	$ 65.00	$ 487,500.00
9.11	SILT FENCE	18,500	LF	$ 2.00	$ 37,000.00
9.12	REMOVAL OF SILT FENCE	18,500	LF	$ 1.00	$ 18,500.00
9.13	INLET PROTECTION DEVICE, INSTALL AND REMOVAL, SEDIMENT BASKET	40	EA	$ 200.00	$ 8,000.00
9.14	INLET PROTECTION DEVICE, MAINTENANCE	68	EA	$ 30.00	$ 2,040.00
9.15	FLEX-A-MAT	245	SQ	$ 150.00	$ 36,750.00
	MISCELLANEOUS				
11.01	CONSTRUCTION SURVEY	1	LS	$ 65,000.00	$ 65,000.00
11.02	CONCRETE WASHOUT	1	LS	$ 20,000.00	$ 20,000.00

OPINION OF PROBABLE CONSTRUCTION COSTS

SNYDER & ASSOCIATES

GRAND AVE - S. GRAND PRAIRIE PARKWAY TO S. 115TH STREET
West Des Moines, Iowa
0510-010-2021

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	FIBER CONDUIT INTER-CONNECT (MS)				
13.01	PORTLAND CEMENT CONCRETE (PCC) VAULT (4'X6'X7'), FURNISH AND INSTALL	1	EA	$ 12,000.00	$ 12,000.00
13.02	HANDHOLE (2.5'X4'X4'), FURNISH AND INSTALL	2	EA	$ 3,500.00	$ 7,000.00
13.03	CONDUIT, FURNISH AND INSTALL, SDR 11 HDPE, 4 IN. DIA., DUCT BANK, DIRECTIONAL DRILLED	2,466	LF	$ 31.00	$ 76,446.00
13.04	CONDUIT PATHWAY, FURNISH AND INSTALL, 7-WAY MULTI-DUCT, INSTALLED-IN-PLACE	2,531	LF	$ 5.25	$ 13,287.75
13.05	TEST STATION/FIBER OPTIC LINE MARKER COMBINATION, ABOVE GRADE, FURNISH AND INSTALL	1	EA	$ 300.00	$ 300.00
13.06	FIBER CONDUIT/STRUCTURES AS-BUILT DOCUMENTATION (MS)	1	LS	$ 1,250.00	$ 1,250.00
13.07	CONDUIT AND TRACER WIRE ACCEPTANCE TESTING (MS)	1	LS	$ 1,500.00	$ 1,500.00
13.08	CONSTRUCTION SURVEY - FIBER CONDUIT INTER-CONNECT (MS)	1	LS	$ 1,750.00	$ 1,750.00
	FIBER CONDUIT INTER-CONNECT (CITY)				
14.01	CITY-PROVIDED VAULT, INSTALL ONLY, LARGE ROUND (IAP)	5	EA	$ 1,500.00	$ 7,500.00
14.02	CONDUIT, FURNISH AND INSTALL, SDR 13.5 HDPE, 1 IN. DIA., BLUE WITH BLACK STRIPE, DUCT BANK, DIRECTIONAL DRILED	9,252	LF	$ 11.00	$ 101,772.00
14.03	CONDUIT PATHWAY, FURNISH AND INSTALL, 7-WAY MULTI-DUCT, DUCT BANK, DIRECTIONAL DRILLED	4,631	LF	$ 13.50	$ 62,518.50
14.04	TEST STATION, BELOW GRADE, FURNISH AND INSTALL	5	EA	$ 500.00	$ 2,500.00
14.05	FIBER CONDUIT/STRUCTURES AS-BUILT DOCUMENTATION (CITY)	1	LS	$ 1,250.00	$ 1,250.00
14.06	CONDUIT AND TRACER WIRE ACCEPTANCE TESTING (CITY)	1	LS	$ 1,500.00	$ 1,500.00
14.07	CONSTRUCTION SURVEY - FIBER CONDUIT INTER-CONNECT (CITY)	1	LS	$ 1,750.00	$ 1,750.00
	S. GRAND PRAIRIE PARKWAY - METER PIT				
15.01	TRENCH FOUNDATION	10	TON	$ 50.00	$ 500.00
15.02	IMPORTED BACKFILL	40	TON	$ 25.00	$ 1,000.00
15.03	WATER MAIN, TRENCHED, DI, CLASS 52, 12"	80	LF	$ 130.00	$ 10,400.00
15.04	WATER MAIN, TRENCHED, DI, CLASS 52, 8"	20	LF	$ 120.00	$ 2,400.00
15.05	WATER MAIN, TRENCHED, DI, CLASS 52, 4"	10	LF	$ 110.00	$ 1,100.00
15.06	FITTING, BEND, 12"	2	EA	$ 1,500.00	$ 3,000.00

OPINION OF PROBABLE CONSTRUCTION COSTS

SNYDER & ASSOCIATES

GRAND AVE - S. GRAND PRAIRIE PARKWAY TO S. 115TH STREET
West Des Moines, Iowa
0510-010-2021

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
15.07	FITTING, REDUCER, 12"X8"	2	EA	$ 1,100.00	$ 2,200.00
15.08	FITTING, DISMANTLING JOINT, 8"	1	EA	$ 500.00	$ 500.00
15.09	FITTING, TEE, 12"X4"	1	EA	$ 900.00	$ 900.00
15.10	TAPPING VALVE ASSEMBLY, 24"X12"	2	EA	$ 16,000.00	$ 32,000.00
15.11	GATE VALVE, 4"	1	EA	$ 1,300.00	$ 1,300.00
15.12	ISOLATION VALVE, 4"	1	EA	$ 800.00	$ 800.00
15.13	MANHOLE, SW-401, 72"	1	EA	$ 13,000.00	$ 13,000.00
15.14	8" PCC SLAB	1	LS	$ 2,500.00	$ 2,500.00
15.15	ELECTOMAGNETIC FLOW SENSOR	1	EA	$ 9,500.00	$ 9,500.00
15.16	ELECTRICAL	1	LS	$ 8,000.00	$ 8,000.00
15.17	CONTROLS/INTEGRATION	1	LS	$ 14,000.00	$ 14,000.00
15.18	MECHANICAL	1	LS	$ 4,000.00	$ 4,000.00
15.19	ALUMINUM TOWER STRUCTURAL FOUNDATION	1	LS	$ 7,500.00	$ 7,500.00
15.20	CONVENTIONAL SEEDING, TYPE 2	0.1	AC	$ 15,000.00	$ 1,500.00
	S. GRAND PRAIRIE PARKWAY - WATER MAIN				
16.01	REMOVAL OF WATER MAIN	1,008	LF	$ 15.00	$ 15,120.00
16.02	WATER MAIN, TRENCHED, RESTRAINED JOINT, 16"	160	LF	$ 150.00	$ 24,000.00
16.03	WATER MAIN, TRENCHED, UNRESTRAINED, 24"	1,729	LF	$ 250.00	$ 432,250.00
16.04	WATER MAIN, TRENCHED, RESTRAINED JOINT, 24"	327	LF	$ 350.00	$ 114,450.00
16.05	WATER MAIN, TRENCHED, RESTRAINED JOINT, DIP, C151, CLASS 52, 16 IN.	34	LF	$ 200.00	$ 6,800.00
16.06	WATER MAIN, TRENCHED, RESTRAINED JOINT, DIP, C151, CLASS 52, 24 IN.	15	LF	$ 350.00	$ 5,250.00
16.07	WATER MAIN W/CASING PIPE, TRENCHLESS, RESTRAINED, 24 IN.	315	LF	$ 550.00	$ 173,250.00
16.08	WATER MAIN FITTINGS	10,605	LB	$ 9.00	$ 95,445.00
16.09	VALVE, GATE, 16 IN.	3	EA	$ 8,500.00	$ 25,500.00
16.10	VALVE, GATE, 24 IN.	6	EA	$ 22,000.00	$ 132,000.00
16.11	FIRE HYDRANT ASSEMBLY	5	EA	$ 6,500.00	$ 32,500.00
16.12	REMOVE EXISTING FIRE HYDRANT ASSEMBLY	1	EA	$ 1,500.00	$ 1,500.00
16.13	VALVE REMOVAL	3	EA	$ 400.00	$ 1,200.00
16.14	HYDRAULIC SEEDING, FERT. & MULCH., TYPE 4 (URBAN TEMP. MIX.)	2	ACRE	$ 3,500.00	$ 7,000.00
16.15	SILT FENCE, INSTALLATION	5,000	LF	$ 2.50	$ 12,500.00
16.16	SILT FENCE, REMOVAL OF SEDIMENT	400	LF	$ 0.10	$ 40.00
16.17	SILT FENCE, REMOVAL OF DEVICE	5,000	LF	$ 0.10	$ 500.00
16.18	EROSION CONTROL MULCHING, CONVENTIONAL MULCH	2	ACRE	$ 750.00	$ 1,500.00

OPINION OF PROBABLE CONSTRUCTION COSTS

SNYDER & ASSOCIATES

GRAND AVE - S. GRAND PRAIRIE PARKWAY TO S. 115TH STREET
West Des Moines, Iowa
0510-010-2021

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
16.19	INLET PROTECTION DEVICES, INSTALLATION	6	EA	$ 250.00	$ 1,500.00
16.20	CONSTRUCTION SURVEY	1	LS	$ 10,000.00	$ 10,000.00
16.21	RAILROAD PROTECTIVE LIABILITY INSURANCE	1	LS	$ 15,000.00	$ 15,000.00
16.22	RAILROAD PROTECTION SERVICES	5.0	CDAY	$ 1,792.00	$ 8,960.00
	GRAND AVE SANITARY SEWER				
17.01	SANITARY SEWER IN PLACE, 24"	4,190	LF	$ 225.00	$ 942,750.00
17.02	SANITARY SEWER IN PLACE, 15"	150	LF	$ 140.00	$ 21,000.00
17.02	MANHOLES - TYPE SW-301	10	EA	$ 12,000.00	$ 120,000.00
17.03	VIDEO INSPECTION OF SANITARY SEWER	4,340	LF	$ 3.00	$ 13,020.00
17.04	FIELD TILE - 10"	100	LF	$ 50.00	$ 5,000.00
17.05	FIELD TILE - 8" AND SMALLER	200	LF	$ 30.00	$ 6,000.00
17.06	STABILIZING MATERIAL	100	TON	$ 40.00	$ 4,000.00

CONSTRUCTION TOTAL: $ 9,064,967.25

LICENSED PROFESSIONAL ENGINEER
GABRIEL A. NELSON
17382
IOWA

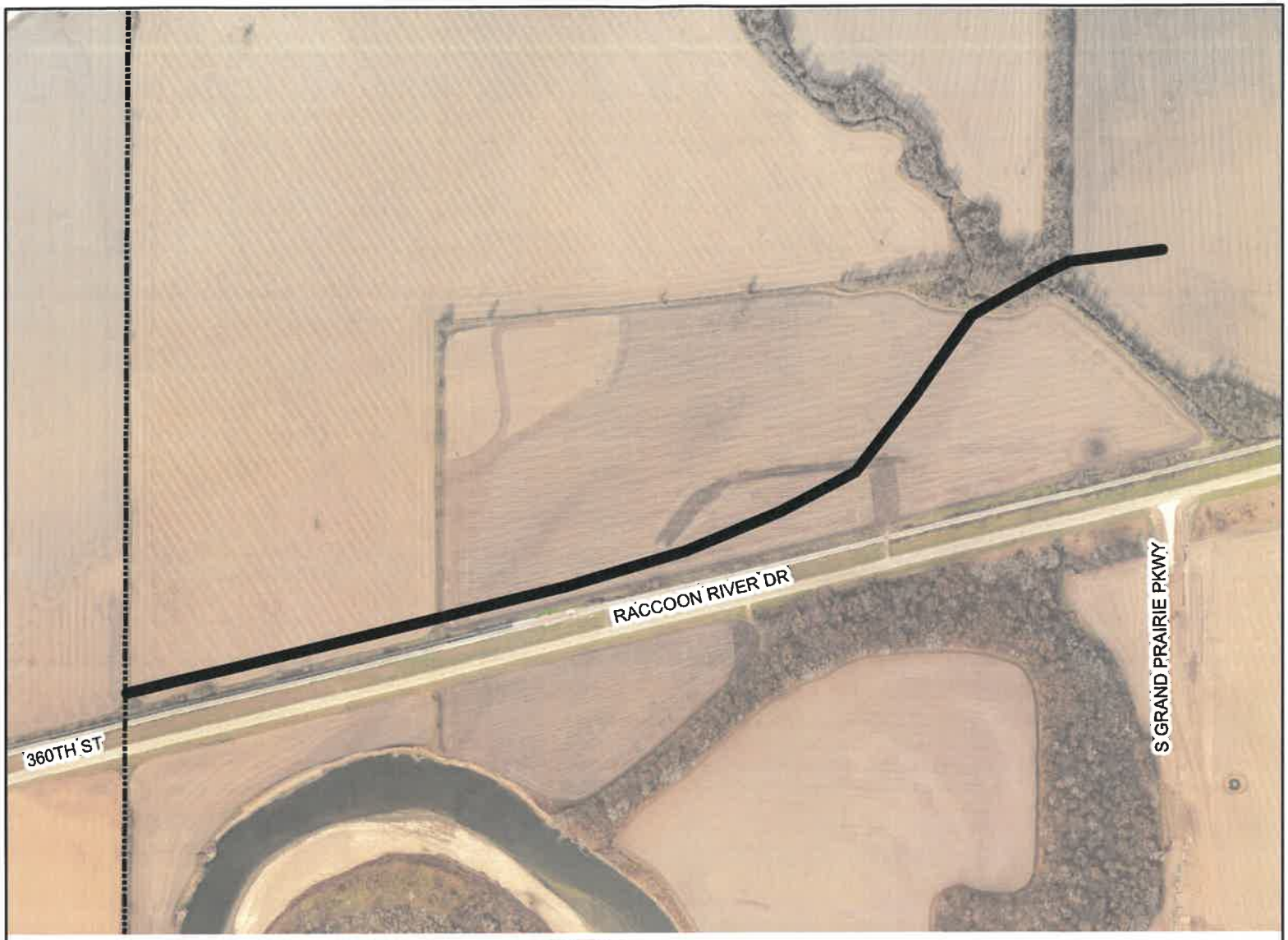
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer under the laws of the State of Iowa.

8/31/2021

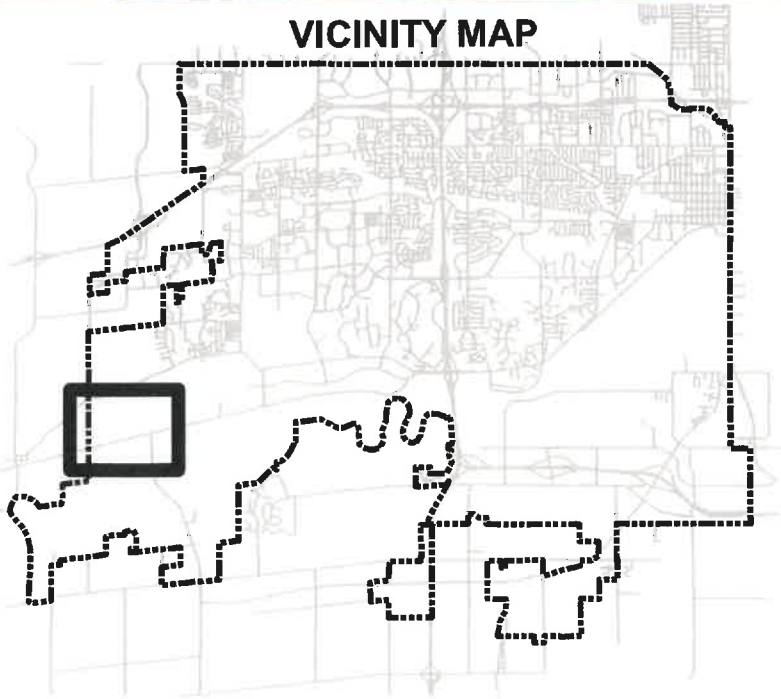
Gabriel A. Nelson, P.E. — Date

My License Number : 17382

My License Renewal Date is December 31, 2022



VICINITY MAP



LEGEND

PROJECT LOCATION

N
W E
S

THE CITY OF WEST DES MOINES

PROJECT:

Grand Avenue

LOCATION: **South Grand Prairie Parkway to South 115th Street**

DRAWN BY: JDR	DATE: 10/19/2020	PROJECT NUMBER/NAME: 0510-010-2021	SHT. 1 of 1