CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: June 17, 2019

ITEM:

Public Hearing (5:35 p.m.)
MidAmerican Energy RecPlex – Grading & Site Utilities

FINANCIAL IMPACT:

The revised Engineering Estimate of Construction Cost for the Grading & Site Utilities bid package for the MidAmerican Energy RecPlex was estimated to be $4,960,192.08. There were four (4) bids submitted with the low bid of $4,496,180.00 being submitted by McAninch Corporation of Des Moines, Iowa. Payments will be made from account no. 500.000.000.5250.490 with the ultimate funding intended to come from a combination of funds already declared as excess in the Sewer Fund ($1.5 million) and an upcoming bond issuance (General Obligation bonds backed by Hotel-Motel tax revenue).

BACKGROUND:

The project consists of soil import, grading, storm sewer, sanitary sewer, and watermain to accommodate the future construction of the MidAmerican Energy RecPlex. The project is anticipated to be completed by October 31, 2019. Building and Site Improvements are scheduled to bid in the next few months with construction extending through most of 2020.

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 MidAmerican Energy RecPlex – Grading & Site Utilities;
- Motion receiving and filing Report of Bids;
- Resolution awarding the construction contract to McAninch Corporation.

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

STAFF REVIEWS

Department Director	Brian J. Hemesath, P.E., City Engineer
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Richard Scieszinski, City Attorney JDS
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	Des Moines Register
Dates(s) Published	June 7, 2019

SUBCOMMITTEE REVIEW (if applicable)

Committee			
Date Reviewed			
Recommendation	Yes	No	Split

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

WHEREAS, on May 20, 2019, Plans, Specifications, Form of Contract, and Estimate of Cost were filed with the City Clerk for the following described public improvement:

MidAmerican Energy RecPlex – Grading & Site Utilities
Project No. 0510-055-2018

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 on this **17th** day of **June, 2019.**

_____
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:

MidAmerican Energy RecPlex – Grading & Site Utilities
Project No. 0510-055-2018

and,

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

WHEREAS, the bid of McAninch Corporation in the amount of $4,496,180.00 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, that a contract for the MidAmerican Energy RecPlex – Grading & Site Utilities is hereby awarded to McAninch Corporation in the amount of $4,496,180.00 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 **17th** day of **June, 2019.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

Bid Tabulation

Engineer's Opinion of Probable Construction Costs

MidAmerican Energy Company RecPlex - Site Grading and Utility Improvements

				Engineer's Estimate			McAninch Corporation			Corell Contractor Inc.		
Item No.	SUDAS	Item	Unit	Quantity	Unit Price	Price	Quantity	Unit Price	Price	Quantity	Unit Price	Price
Division 2		Earthwork										
2.01	2010-108-C-0	Clearing and Grubbing	LS	1	$ 5,000.00	$ 5,000.00	1	$ 23,736.00	$ 23,736.00	1	$ 173,900.00	$ 173,900.00
2.02	2010-108-D-1	Topsoil, On-Site	CY	58,300	$ 5.00	$ 291,500.00	58,300	$ 2.45	$ 142,835.00	58,300	$ 4.00	$ 233,200.00
2.03	2010-108-E-0	Excavation, Class 10 (Import)	CY	181,396	$ 10.00	$ 1,813,960.00	181,396	$ 9.85	$ 1,786,750.60	181,396	$ 9.60	$ 1,741,401.60
2.04	2010-108-E-0	Excavation, Class 10 (Onsite)	CY	117,433	$ 3.50	$ 411,015.50	117,433	$ 8.20	$ 962,950.60	117,433	$ 8.85	$ 1,039,282.05
Division 4		Sewers and Drains										
4.01	4010-108-A-1	Sanitary Sewer Service, Trenched, Truss PVC, 8 In. Dia.	LF	703	$ 80.00	$ 56,240.00	703	$ 54.19	$ 38,095.57	703	$ 55.00	$ 38,665.00
4.02	4010-108-A-1	Sanitary Sewer Service, Trenched, PVC, 6 In. Dia.	LF	142	$ 70.00	$ 9,940.00	142	$ 51.09	$ 7,254.78	142	$ 70.00	$ 9,940.00
4.03	4010-108-I-0	Sanitary Sewer Cleanout	EA	3	$ 1,800.00	$ 5,400.00	3	$ 784.25	$ 2,352.75	3	$ 900.00	$ 2,700.00
4.03	4020-108-A-1	Storm Sewer, Trenched, RCAP, 42 In. Dia.	LF	635	$ 280.00	$ 177,800.00	635	$ 147.25	$ 93,503.75	635	$ 205.00	$ 130,175.00
4.04	4020-108-A-1	Storm Sewer, Trenched, RCP, 42 In. Dia. Bend	EA	2	$ 500.00	$ 1,000.00	2	$ 1,428.00	$ 2,856.00	2	$ 4,000.00	$ 8,000.00
4.06	4020-108-A-1	Storm Sewer, Trenched, RCP, 42 In. Dia.	LF	684	$ 220.00	$ 150,480.00	684	$ 144.75	$ 99,009.00	684	$ 117.00	$ 80,028.00
4.07	4020-108-A-1	Storm Sewer, Trenched, RCP, 30 In. Dia.	LF	768	$ 210.00	$ 161,280.00	768	$ 87.25	$ 67,008.00	768	$ 78.00	$ 59,904.00
4.08	4020-108-A-1	Storm Sewer, Trenched, 24 In. Dia.	LF	480	$ 100.00	$ 48,000.00	480	$ 72.18	$ 34,646.40	480	$ 69.00	$ 33,120.00
4.09	4020-108-A-1	Storm Sewer, Trenched, 18 In. Dia.	LF	1,170	$ 90.00	$ 105,300.00	1,170	$ 59.78	$ 69,942.60	1,170	$ 54.00	$ 63,180.00
4.10	4020-108-A-1	Storm Sewer, Trenched, 15 In. Dia.	LF	2,927	$ 75.00	$ 219,525.00	2,927	$ 56.75	$ 166,107.25	2,927	$ 52.00	$ 152,204.00
4.11	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 18 In. Dia.	LF	161	$ 90.00	$ 14,490.00	161	$ 69.59	$ 11,203.99	161	$ 84.00	$ 13,524.00
4.12	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 15 In. Dia.	LF	266	$ 75.00	$ 19,950.00	266	$ 62.84	$ 16,715.44	266	$ 81.00	$ 21,546.00
4.11	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 12 In. Dia.	LF	1,015	$ 70.00	$ 71,050.00	1,015	$ 54.59	$ 55,408.85	1,015	$ 78.00	$ 79,170.00
4.12	4020-108-A-1	Storm Sewer, Trenched, Peforated HDPE, 8 In. Dia.	LF	90	$ 65.00	$ 5,850.00	90	$ 41.86	$ 3,767.40	90	$ 51.00	$ 4,590.00
4.15	4020-108-A-1	Storm Sewer, Trenched, HDPE, 12 In. Dia.	LF	167	$ 60.00	$ 10,020.00	167	$ 54.91	$ 9,169.97	167	$ 57.00	$ 9,519.00
4.16	4020-108-A-1	Storm Sewer, Trenched, HDPE, 8 In. Dia.	LF	726	$ 55.00	$ 39,930.00	726	$ 41.94	$ 30,448.44	726	$ 38.00	$ 27,588.00
4.17	Special	Removal of Apron, RCP, 42 In. Dia.	EA	2	$ 500.00	$ 1,000.00	2	$ 491.00	$ 982.00	2	$ 1,450.00	$ 2,900.00
4.18	4030-108-B-0	Pipe Apron, RCAP, 42 In. Dia.	EA	2	$ 4,500.00	$ 9,000.00	2	$ 2,070.00	$ 4,140.00	2	$ 5,400.00	$ 10,800.00
4.20	4030-108-B-0	Pipe Apron, RCP, 42 In. Dia.	EA	2	$ 3,500.00	$ 7,000.00	2	$ 1,954.00	$ 3,908.00	2	$ 4,800.00	$ 9,600.00
4.20	4030-108-B-0	Pipe Apron, RCP, 30 In. Dia.	EA	15	$ 3,000.00	$ 45,000.00	15	$ 1,448.00	$ 21,720.00	15	$ 3,500.00	$ 52,500.00
4.21	4030-108-B-0	Pipe Apron, 24 In. Dia.	EA	1	$ 2,400.00	$ 2,400.00	1	$ 1,252.00	$ 1,252.00	1	$ 3,200.00	$ 3,200.00
4.22	4030-108-B-0	Pipe Apron, 18 In. Dia.	EA	5	$ 2,100.00	$ 10,500.00	5	$ 1,135.00	$ 5,675.00	5	$ 2,600.00	$ 13,000.00
4.23	4030-108-B-0	Pipe Apron, 15 In. Dia.	EA	4	$ 1,800.00	$ 7,200.00	4	$ 919.00	$ 3,676.00	4	$ 2,500.00	$ 10,000.00
4.24	4030-108-B-0	Pipe Apron, CMP, 12 In. Dia.	EA	1	$ 1,500.00	$ 1,500.00	1	$ 322.50	$ 322.50	1	$ 1,000.00	$ 1,000.00
4.25	4030-108-C-0	Footing for Apron, varies	EA	30	$ 1,800.00	$ 54,000.00	30	$ 54.60	$ 1,638.00	30	$ 300.00	$ 9,000.00
4.26	4030-108-D-0	Pipe Apron Guard	EA	30	$ 1,500.00	$ 45,000.00	30	$ 706.25	$ 21,187.50	30	$ 300.00	$ 9,000.00
4.27	4040-108-C-0	Storm Cleanout	EA	5	$ 2,070.00	$ 10,350.00	5	$ 649.50	$ 3,247.50	5	$ 1,200.00	$ 6,000.00
4.28	Special	Outlet Control, Backflow Prevention Check Valve, 15 In. Dia.	EA	3	$ 1,660.00	$ 4,980.00	3	$ 6,035.00	$ 18,105.00	3	$ 7,200.00	$ 21,600.00
Division 5		Water Main and Appurtenances										
5.01	5010-108-A-1	Water Main, Trenched, PVC, 8 In. Dia.	LF	2,235	$ 80.00	$ 178,800.00	2,235	$ 25.38	$ 56,724.30	2,235	$ 33.00	$ 73,755.00
5.02	5010-108-A-1	Water Main, Trenched, PVC, 6 In. Dia.	LF	790	$ 75.00	$ 59,250.00	790	$ 24.01	$ 18,967.90	790	$ 35.00	$ 27,650.00
5.03	5010-108-A-2	Water Main, Trenchless, PVC, 8 In. Dia.	LF	320	$ 140.00	$ 44,800.00	320	$ 92.87	$ 29,718.40	320	$ 165.00	$ 52,800.00
5.04	5020-108-A-0	Valve, Gate, 8 In. Dia.	EA	8	$ 2,100.00	$ 16,800.00	8	$ 1,303.00	$ 10,424.00	8	$ 1,400.00	$ 11,200.00
5.05	5020-108-A-0	Valve, Gate, 6 In. Dia.	EA	5	$ 2,000.00	$ 10,000.00	5	$ 866.75	$ 4,333.75	5	$ 1,100.00	$ 5,500.00
5.06	5020-108-B-0	Tapping Valve Assembly, 12 x 8 In. Dia	EA	2	$ 5,500.00	$ 11,000.00	2	$ 4,782.00	$ 9,564.00	2	$ 9,000.00	$ 18,000.00
5.07	5020-108-C-0	Fire Hydrant Assembly	EA	12	$ 4,800.00	$ 57,600.00	12	$ 4,084.00	$ 49,008.00	12	$ 4,500.00	$ 54,000.00
Division 6		Structures for Sanitary and Storm Sewer										
6.01	6010-108-A-0	Manhole, Type SW-301, 48 In. Dia.	EA	1	$ 6,500.00	$ 6,500.00	1	$ 7,341.00	$ 7,341.00	1	$ 4,460.00	$ 4,460.00
6.02	6010-108-A-0	Manhole, Type SW-401, 48 In. Dia.	EA	6	$ 4,100.00	$ 24,600.00	6	$ 3,318.00	$ 19,908.00	6	$ 3,650.00	$ 21,900.00
6.03	6010-108-A-0	Manhole, Type SW-401, 60 In. Dia.	EA	1	$ 5,500.00	$ 5,500.00	1	$ 4,900.00	$ 4,900.00	1	$ 5,500.00	$ 5,500.00
6.04	6010-108-A-0	Manhole, Type SW-402, 4 x 4 Ft.	EA	3	$ 6,000.00	$ 18,000.00	3	$ 6,429.00	$ 19,287.00	3	$ 4,700.00	$ 14,100.00
6.05	6010-108-B-0	Intake, Type SW-501, Single Grate Intake	EA	15	$ 3,200.00	$ 48,000.00	15	$ 2,622.00	$ 39,330.00	15	$ 2,400.00	$ 36,000.00
6.06	6010-108-B-0	Intake, Type SW-502, 48 In. Dia., Single Grate Intake	EA	2	$ 5,000.00	$ 10,000.00	2	$ 3,065.00	$ 6,130.00	2	$ 4,000.00	$ 8,000.00
6.07	6010-108-B-0	Intake, Type SW-505, Double Grate Intake	EA	6	$ 5,000.00	$ 30,000.00	6	$ 4,260.00	$ 25,560.00	6	$ 4,800.00	$ 28,800.00
6.08	6010-108-B-0	Intake, Type SW-506, Double Grate Intake with Manhole	EA	4	$ 6,500.00	$ 26,000.00	4	$ 7,263.00	$ 29,052.00	4	$ 7,000.00	$ 28,000.00
6.09	6010-108-B-0	Intake, Type SW-506, Double Grate Intake with Manhole, Modified	EA	6	$ 8,000.00	$ 48,000.00	6	$ 13,903.00	$ 83,418.00	6	$ 9,500.00	$ 57,000.00
6.10	6010-108-B-0	Intake, Type SW-511, Single Grate Intake	EA	19	$ 3,500.00	$ 66,500.00	19	$ 2,593.00	$ 49,267.00	19	$ 2,500.00	$ 47,500.00
6.11	6010-108-B-0	Intake, Type SW-512, 24 In Dia., Single Grate Intake	EA	1	$ 3,000.00	$ 3,000.00	1	$ 1,690.00	$ 1,690.00	1	$ 2,300.00	$ 2,300.00
6.12	6010-108-B-0	Intake, Type SW-513, 5 x 5 Ft.	EA	1	$ 7,000.00	$ 7,000.00	1	$ 4,549.00	$ 4,549.00	1	$ 5,400.00	$ 5,400.00

Bid Tabulation

Engineer's Opinion of Probable Construction Costs

MidAmerican Energy Company RecPlex - Site Grading and Utility Improvements

				Engineer's Estimate			McAninch Corporation			Corell Contractor Inc.		
Item No.	SUDAS	Item	Unit	Quantity	Unit Price	Price	Quantity	Unit Price	Price	Quantity	Unit Price	Price
6.12	6010-108-B-0	Intake, Type SW-513, 5 x 5 Ft.	EA	2	$ 3,000.00	$ 6,000.00	2	$ 1,320.00	$ 2,640.00	2	$ 1,700.00	$ 3,400.00
6.14	6010-108-B-0	Intake, HDPE Inline Drain	EA	18	$ 2,000.00	$ 36,000.00	18	$ 1,117.00	$ 20,106.00	18	$ 1,200.00	$ 21,600.00
6.15	6010-108-E-0	Sanitary Manhole Adjustment, Minor	EA	2	$ 2,000.00	$ 4,000.00	2	$ 1,021.00	$ 2,042.00	2	$ 1,250.00	$ 2,500.00
6.16	6010-108-G-0	Connection to Existing Sanitary Manhole	EA	1	$ 5,000.00	$ 5,000.00	1	$ 9,625.00	$ 9,625.00	1	$ 7,200.00	$ 7,200.00
Division 8		Traffic Control and Signalization										
8.01	8030-108-A-0	Temporary Traffic Control	LS	1	$ 1,781.58	$ 1,781.58	1	$ 73,500.41	$ 73,500.41	1	$ 1,500.00	$ 1,500.00
Division 9		Site Work and Landscaping										
9.01	9010-108-A-0	Convential Seeding, Seeding and Fertilizing, Type 4	AC	45	$ 1,000.00	$ 45,000.00	45	$ 157.50	$ 7,087.50	45	$ 157.00	$ 7,065.00
9.02	9040-108-A-2	SWPPP Management	LS	1	$ 5,000.00	$ 5,000.00	1	$ 3,255.00	$ 3,255.00	1	$ 3,255.00	$ 3,255.00
9.03	9040-108-N-1	Silt Fence or Silt Fence Ditch Check	LF	2,530	$ 15.00	$ 37,950.00	2,530	$ 1.58	$ 3,997.40	2,530	$ 1.60	$ 4,048.00
9.04	9040-108-N-2	Silt Fence or Silt Fence Ditch Check, Removal of Sediment	LF	2,530	$ 15.00	$ 37,950.00	2,530	$ 0.53	$ 1,340.90	2,530	$ 0.55	$ 1,391.50
9.05	9040-108-O-1	Stabilized Construction Entrance	SY	335	$ 15.00	$ 5,025.00	335	$ 15.68	$ 5,252.80	335	$ 12.00	$ 4,020.00
9.06	9040-108-Q-2	Erosion Control Mulching, Hydromulching (BFM)	AC	45	$ 900.00	$ 40,500.00	45	$ 2,783.00	$ 125,235.00	45	$ 2,782.00	$ 125,190.00
9.07	9040-108-R-0	Turf Reinforcement Mat, Type 4	SQ	255	$ 200.00	$ 51,000.00	255	$ 31.50	$ 8,032.50	255	$ 31.50	$ 8,032.50
9.08	9040-108-T-1	Inlet Protection Device, Rock	EA	49	$ 250.00	$ 12,250.00	49	$ 178.50	$ 8,746.50	49	$ 200.00	$ 9,800.00
9.09	9040-108-T-2	Inlet Protection Device, Maintenance and Removal of Rock Inlet Protection	EA	49	$ 25.00	$ 1,225.00	49	$ 26.25	$ 1,286.25	49	$ 30.00	$ 1,470.00
9.10	9040-108-U-0	Flow Transition Mat	SF	1,550	$ 100.00	$ 155,000.00	1,550	$ 17.85	$ 27,667.50	1,550	$ 17.85	$ 27,667.50
Division 11		Miscellaneous										
11.01	11,010-108-A	Construction Staking	LS	1	$ 25,000.00	$ 25,000.00	1	$ 15,855.00	$ 15,855.00	1	$ 17,500.00	$ 17,500.00
11.02	11,010-108-B	Monument Preservation and Replacement	LS	1	$ 1,500.00	$ 1,500.00	1	$ 672.00	$ 672.00	1	$ 675.00	$ 675.00
11.03	11,050-108-A-0	Concrete Washout, Rolloff	EA	1	$ 3,000.00	$ 3,000.00	1	$ 1,050.00	$ 1,050.00	1	$ 375.00	$ 375.00
			Total Bid =			$4,960,192.08			$ 4,496,180.00			$ 4,818,791.15

Bid Tabulation

Engineer's Opinion of Probable Construction Costs

MidAmerican Energy Company RecPlex - Site Grading and Utility Improvements

				Engineer's Estimate			C.J. Moyna & Sons			Elder Corporation		
Item No.	SUDAS	Item	Unit	Quantity	Unit Price	Price	Quantity	Unit Price	Price	Quantity	Unit Price	Price
Division 2		Earthwork										
2.01	2010-108-C-0	Clearing and Grubbing	LS	1	$ 5,000.00	$ 5,000.00	1	$ 7,500.00	$ 7,500.00	1	$30,000.00	$30,000.00
2.02	2010-108-D-1	Topsoil, On-Site	CY	58,300	$ 5.00	$ 291,500.00	58,300	$ 11.30	$ 658,790.00	58,300	$4.00	$233,200.00
2.03	2010-108-E-0	Excavation, Class 10 (Import)	CY	181,396	$ 10.00	$ 1,813,960.00	181,396	$ 13.30	$ 2,412,566.80	181,396	$14.00	$2,539,544.00
2.04	2010-108-E-0	Excavation, Class 10 (Onsite)	CY	117,433	$ 3.50	$ 411,015.50	117,433	$ 7.90	$ 927,720.70	117,433	$5.75	$675,239.75
Division 4		Sewers and Drains										
4.01	4010-108-A-1	Sanitary Sewer Service, Trenched, Truss PVC, 8 In. Dia.	LF	703	$ 80.00	$ 56,240.00	703	$ 44.00	$ 30,932.00	703	$107.00	$75,221.00
4.02	4010-108-A-1	Sanitary Sewer Service, Trenched, PVC, 6 In. Dia.	LF	142	$ 70.00	$ 9,940.00	142	$ 43.00	$ 6,106.00	142	$63.00	$8,946.00
4.03	4010-108-I-0	Sanitary Sewer Cleanout	EA	3	$ 1,800.00	$ 5,400.00	3	$ 530.00	$ 1,590.00	3	$2,100.00	$6,300.00
4.03	4020-108-A-1	Storm Sewer, Trenched, RCAP, 42 In. Dia.	LF	635	$ 280.00	$ 177,800.00	635	$ 170.00	$ 107,950.00	635	$203.00	$128,905.00
4.04	4020-108-A-1	Storm Sewer, Trenched, RCP, 42 In. Dia. Bend	EA	2	$ 500.00	$ 1,000.00	2	$ 2,200.00	$ 4,400.00	2	$2,800.00	$5,600.00
4.06	4020-108-A-1	Storm Sewer, Trenched, RCP, 42 In. Dia.	LF	684	$ 220.00	$ 150,480.00	684	$ 130.00	$ 88,920.00	684	$188.50	$128,934.00
4.07	4020-108-A-1	Storm Sewer, Trenched, RCP, 30 In. Dia.	LF	768	$ 210.00	$ 161,280.00	768	$ 90.00	$ 69,120.00	768	$112.00	$86,016.00
4.08	4020-108-A-1	Storm Sewer, Trenched, 24 In. Dia.	LF	480	$ 100.00	$ 48,000.00	480	$ 80.00	$ 38,400.00	480	$87.00	$41,760.00
4.09	4020-108-A-1	Storm Sewer, Trenched, 18 In. Dia.	LF	1,170	$ 90.00	$ 105,300.00	1,170	$ 70.00	$ 81,900.00	1,170	$69.50	$81,315.00
4.10	4020-108-A-1	Storm Sewer, Trenched, 15 In. Dia.	LF	2,927	$ 75.00	$ 219,525.00	2,927	$ 68.00	$ 199,036.00	2,927	$62.00	$181,474.00
4.11	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 18 In. Dia.	LF	161	$ 90.00	$ 14,490.00	161	$ 70.00	$ 11,270.00	161	$80.50	$12,960.50
4.12	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 15 In. Dia.	LF	266	$ 75.00	$ 19,950.00	266	$ 67.00	$ 17,822.00	266	$71.00	$18,886.00
4.11	4020-108-A-1	Storm Sewer, Trenched, Perforated HDPE, 12 In. Dia.	LF	1,015	$ 70.00	$ 71,050.00	1,015	$ 62.00	$ 62,930.00	1,015	$54.50	$55,317.50
4.12	4020-108-A-1	Storm Sewer, Trenched, Peforated HDPE, 8 In. Dia.	LF	90	$ 65.00	$ 5,850.00	90	$ 54.00	$ 4,860.00	90	$53.50	$4,815.00
4.15	4020-108-A-1	Storm Sewer, Trenched, HDPE, 12 In. Dia.	LF	167	$ 60.00	$ 10,020.00	167	$ 56.00	$ 9,352.00	167	$63.00	$10,521.00
4.16	4020-108-A-1	Storm Sewer, Trenched, HDPE, 8 In. Dia.	LF	726	$ 55.00	$ 39,930.00	726	$ 54.00	$ 39,204.00	726	$47.50	$34,485.00
4.17	Special	Removal of Apron, RCP, 42 In. Dia.	EA	2	$ 500.00	$ 1,000.00	2	$ 360.00	$ 720.00	2	$430.00	$860.00
4.18	4030-108-B-0	Pipe Apron, RCAP, 42 In. Dia.	EA	2	$ 4,500.00	$ 9,000.00	2	$ 1,950.00	$ 3,900.00	2	$2,200.00	$4,400.00
4.20	4030-108-B-0	Pipe Apron, RCP, 42 In. Dia.	EA	2	$ 3,500.00	$ 7,000.00	2	$ 1,510.00	$ 3,020.00	2	$1,900.00	$3,800.00
4.20	4030-108-B-0	Pipe Apron, RCP, 30 In. Dia.	EA	15	$ 3,000.00	$ 45,000.00	15	$ 980.00	$ 14,700.00	15	$1,300.00	$19,500.00
4.21	4030-108-B-0	Pipe Apron, 24 In. Dia.	EA	1	$ 2,400.00	$ 2,400.00	1	$ 820.00	$ 820.00	1	$1,100.00	$1,100.00
4.22	4030-108-B-0	Pipe Apron, 18 In. Dia.	EA	5	$ 2,100.00	$ 10,500.00	5	$ 700.00	$ 3,500.00	5	$1,000.00	$5,000.00
4.23	4030-108-B-0	Pipe Apron, 15 In. Dia.	EA	4	$ 1,800.00	$ 7,200.00	4	$ 655.00	$ 2,620.00	4	$960.00	$3,840.00
4.24	4030-108-B-0	Pipe Apron, CMP, 12 In. Dia.	EA	1	$ 1,500.00	$ 1,500.00	1	$ 325.00	$ 325.00	1	$730.00	$730.00
4.25	4030-108-C-0	Footing for Apron, varies	EA	30	$ 1,800.00	$ 54,000.00	30	$ 770.00	$ 23,100.00	30	$800.00	$24,000.00
4.26	4030-108-D-0	Pipe Apron Guard	EA	30	$ 1,500.00	$ 45,000.00	30	$ 1,000.00	$ 30,000.00	30	$1,200.00	$36,000.00
4.27	4040-108-C-0	Storm Cleanout	EA	5	$ 2,070.00	$ 10,350.00	5	$ 530.00	$ 2,650.00	5	$2,100.00	$10,500.00
4.28	Special	Outlet Control, Backflow Prevention Check Valve, 15 In. Dia.	EA	3	$ 1,660.00	$ 4,980.00	3	$ 7,200.00	$ 21,600.00	3	$7,100.00	$21,300.00
Division 5		Water Main and Appurtenances										
5.01	5010-108-A-1	Water Main, Trenched, PVC, 8 In. Dia.	LF	2,235	$ 80.00	$ 178,800.00	2,235	$ 45.00	$ 100,575.00	2,235	$55.00	$122,925.00
5.02	5010-108-A-1	Water Main, Trenched, PVC, 6 In. Dia.	LF	790	$ 75.00	$ 59,250.00	790	$ 35.00	$ 27,650.00	790	$34.00	$26,860.00
5.03	5010-108-A-2	Water Main, Trenchless, PVC, 8 In. Dia.	LF	320	$ 140.00	$ 44,800.00	320	$ 230.00	$ 73,600.00	320	$118.00	$37,760.00
5.04	5020-108-A-0	Valve, Gate, 8 In. Dia.	EA	8	$ 2,100.00	$ 16,800.00	8	$ 1,800.00	$ 14,400.00	8	$1,600.00	$12,800.00
5.05	5020-108-A-0	Valve, Gate, 6 In. Dia.	EA	5	$ 2,000.00	$ 10,000.00	5	$ 1,600.00	$ 8,000.00	5	$1,200.00	$6,000.00
5.06	5020-108-B-0	Tapping Valve Assembly, 12 x 8 In. Dia	EA	2	$ 5,500.00	$ 11,000.00	2	$ 2,800.00	$ 5,600.00	2	$6,400.00	$12,800.00
5.07	5020-108-C-0	Fire Hydrant Assembly	EA	12	$ 4,800.00	$ 57,600.00	12	$ 6,700.00	$ 80,400.00	12	$4,900.00	$58,800.00
Division 6		Structures for Sanitary and Storm Sewer										
6.01	6010-108-A-0	Manhole, Type SW-301, 48 In. Dia.	EA	1	$ 6,500.00	$ 6,500.00	1	$ 5,300.00	$ 5,300.00	1	$11,000.00	$11,000.00
6.02	6010-108-A-0	Manhole, Type SW-401, 48 In. Dia.	EA	6	$ 4,100.00	$ 24,600.00	6	$ 4,000.00	$ 24,000.00	6	$4,400.00	$26,400.00
6.03	6010-108-A-0	Manhole, Type SW-401, 60 In. Dia.	EA	1	$ 5,500.00	$ 5,500.00	1	$ 5,800.00	$ 5,800.00	1	$5,000.00	$5,000.00
6.04	6010-108-A-0	Manhole, Type SW-402, 4 x 4 Ft.	EA	3	$ 6,000.00	$ 18,000.00	3	$ 6,000.00	$ 18,000.00	3	$5,800.00	$17,400.00
6.05	6010-108-B-0	Intake, Type SW-501, Single Grate Intake	EA	15	$ 3,200.00	$ 48,000.00	15	$ 3,700.00	$ 55,500.00	15	$2,600.00	$39,000.00
6.06	6010-108-B-0	Intake, Type SW-502, 48 In. Dia.. Single Grate Intake	EA	2	$ 5,000.00	$ 10,000.00	2	$ 4,400.00	$ 8,800.00	2	$3,800.00	$7,600.00
6.07	6010-108-B-0	Intake, Type SW-505, Double Grate Intake	EA	6	$ 5,000.00	$ 30,000.00	6	$ 5,000.00	$ 30,000.00	6	$4,400.00	$26,400.00
6.08	6010-108-B-0	Intake, Type SW-506, Double Grate Intake with Manhole	EA	4	$ 6,500.00	$ 26,000.00	4	$ 9,450.00	$ 37,800.00	4	$7,200.00	$28,800.00
6.09	6010-108-B-0	Intake, Type SW-506, Double Grate Intake with Manhole, Modified	EA	6	$ 8,000.00	$ 48,000.00	6	$ 15,500.00	$ 93,000.00	6	$11,000.00	$66,000.00
6.10	6010-108-B-0	Intake, Type SW-511, Single Grate Intake	EA	19	$ 3,500.00	$ 66,500.00	19	$ 3,600.00	$ 68,400.00	19	$2,900.00	$55,100.00
6.11	6010-108-B-0	Intake, Type SW-512, 24 In Dia., Single Grate Intake	EA	1	$ 3,000.00	$ 3,000.00	1	$ 2,200.00	$ 2,200.00	1	$1,600.00	$1,600.00
6.12	6010-108-B-0	Intake, Type SW-513, 5 x 5 Ft.	EA	1	$ 7,000.00	$ 7,000.00	1	$ 5,000.00	$ 5,000.00	1	$5,300.00	$5,300.00

Bid Tabulation

Engineer's Opinion of Probable Construction Costs

MidAmerican Energy Company RecPlex - Site Grading and Utility Improvements

				Engineer's Estimate			C.J. Moyna & Sons			Elder Corporation		
Item No.	SUDAS	Item	Unit	Quantity	Unit Price	Price	Quantity	Unit Price	Price	Quantity	Unit Price	Price
6.12	6010-108-B-0	Intake, Type SW-513, 5 x 5 Ft.	EA	2	$ 3,000.00	$ 6,000.00	2	$ 1,400.00	$ 2,800.00	2	$2,000.00	$4,000.00
6.14	6010-108-B-0	Intake, HDPE Inline Drain	EA	18	$ 2,000.00	$ 36,000.00	18	$ 1,600.00	$ 28,800.00	18	$1,500.00	$27,000.00
6.15	6010-108-E-0	Sanitary Manhole Adjustment, Minor	EA	2	$ 2,000.00	$ 4,000.00	2	$ 3,600.00	$ 7,200.00	2	$4,900.00	$9,800.00
6.16	6010-108-G-0	Connection to Existing Sanitary Manhole	EA	1	$ 5,000.00	$ 5,000.00	1	$ 2,400.00	$ 2,400.00	1	$9,900.00	$9,900.00
Division 8		Traffic Control and Signalization										
8.01	8030-108-A-0	Temporary Traffic Control	LS	1	$ 1,781.58	$ 1,781.58	1	$ 4,500.00	$ 4,500.00	1	$113,656.25	$113,656.25
Division 9		Site Work and Landscaping										
9.01	9010-108-A-0	Convential Seeding, Seeding and Fertilizing, Type 4	AC	45	$ 1,000.00	$ 45,000.00	45	$ 400.00	$ 18,000.00	45	$157.50	$7,087.50
9.02	9040-108-A-2	SWPPP Management	LS	1	$ 5,000.00	$ 5,000.00	1	$ 4,500.00	$ 4,500.00	1	$3,300.00	$3,300.00
9.03	9040-108-N-1	Silt Fence or Silt Fence Ditch Check	LF	2,530	$ 15.00	$ 37,950.00	2,530	$ 1.40	$ 3,542.00	2,530	$1.60	$4,048.00
9.04	9040-108-N-2	Silt Fence or Silt Fence Ditch Check, Removal of Sediment	LF	2,530	$ 15.00	$ 37,950.00	2,530	$ 0.05	$ 126.50	2,530	$0.55	$1,391.50
9.05	9040-108-O-1	Stabilized Construction Entrance	SY	335	$ 15.00	$ 5,025.00	335	$ 27.00	$ 9,045.00	335	$13.20	$4,422.00
9.06	9040-108-Q-2	Erosion Control Mulching, Hydromulching (BFM)	AC	45	$ 900.00	$ 40,500.00	45	$ 2,400.00	$ 108,000.00	45	$2,800.00	$126,000.00
9.07	9040-108-R-0	Turf Reinforcement Mat, Type 4	SQ	255	$ 200.00	$ 51,000.00	255	$ 100.00	$ 25,500.00	255	$31.50	$8,032.50
9.08	9040-108-T-1	Inlet Protection Device, Rock	EA	49	$ 250.00	$ 12,250.00	49	$ 600.00	$ 29,400.00	49	$270.00	$13,230.00
9.09	9040-108-T-2	Inlet Protection Device, Maintenance and Removal of Rock Inlet Protection	EA	49	$ 25.00	$ 1,225.00	49	$ 400.00	$ 19,600.00	49	$245.00	$12,005.00
9.10	9040-108-U-0	Flow Transition Mat	SF	1,550	$ 100.00	$ 155,000.00	1,550	$ 10.00	$ 15,500.00	1,550	$17.75	$27,512.50
Division 11		Miscellaneous										
11.01	11,010-108-A	Construction Staking	LS	1	$ 25,000.00	$ 25,000.00	1	$ 35,000.00	$ 35,000.00	1	$16,000.00	$16,000.00
11.02	11,010-108-B	Monument Preservation and Replacement	LS	1	$ 1,500.00	$ 1,500.00	1	$ 2,500.00	$ 2,500.00	1	$3,000.00	$3,000.00
11.03	11.050-108-A-0	Concrete Washout, Rolloff	EA	1	$ 3,000.00	$ 3,000.00	1	$ 2,500.00	$ 2,500.00	1	$1,600.00	$1,600.00
			Total Bid =			$4,960,192.08			$ 5,870,263.00			$5,450,000.00

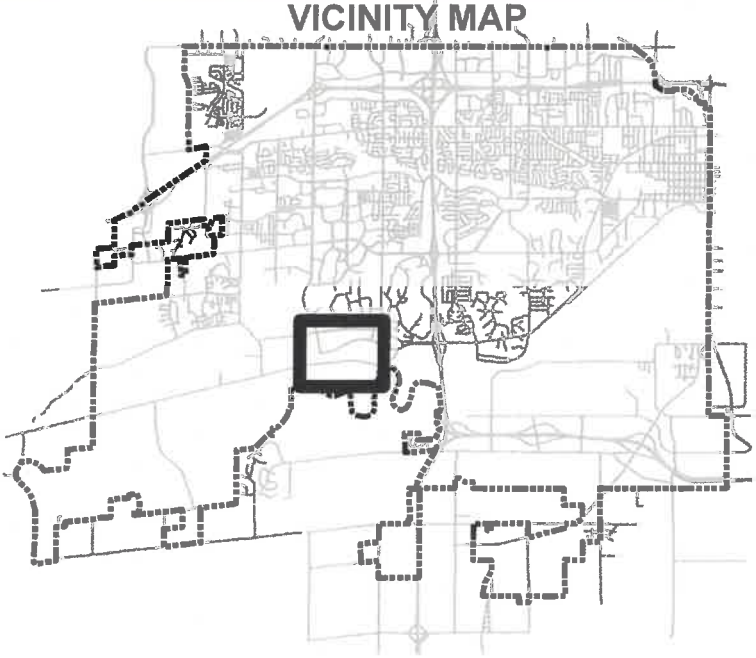
LICENSED PROFESSIONAL ENGINEER
JOSHUA A. TRYGSTAD
19228
IOWA

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.

JOSHUA A. TRYGSTAD, P.E. — 6/12/19 DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2020
PAGES OR SHEETS COVERED BY THIS SEAL:
SHEETS 1-4

VICINITY MAP



LEGEND

PROJECT LOCATION

N
W E
S

THE CITY OF WEST DES MOINES

PROJECT:

MidAmerican Energy RecPlex

LOCATION: **Exhibit "A"**

DRAWN BY: JDR	DATE: 1/16/2019	PROJECT NUMBER/NAME: 0510-055-2018	SHT. 1 of 1