



**FINAL ASSESSMENT PLAT AND SCHEDULE
FOR
SOUTH 15TH AVE, WATER MAIN,
SANITARY SEWER, STORM SEWER & PAVING
WASHINGTON, IOWA
2019**

**FINAL ASSESSMENT PLAT AND SCHEDULE
SOUTH 15TH AVE, WATER MAIN,
SANITARY SEWER, STORM SEWER & PAVING
WASHINGTON, IOWA**

2019

	<p>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.</p> <p style="text-align: center;"> _____ Jack Pope, P.E. 6-12-2020 Date</p> <p>License Number: 11715 My license renewal date is December 31, 2021.</p> <p>Pages or sheets covered by this seal: All pages</p>
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Prepared by
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SOUTH 15TH AVE, WATER MAIN,
SANITARY SEWER, STORM SEWER & PAVING
WASHINGTON, IOWA
2019**

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BENEFITTED AREA

All properties fronting the improvements within an established distance receive a special traffic operations benefit and pedestrian accessibility benefit from the completion of this improvement.

DESCRIPTION OF IMPROVEMENTS

The work included reconstruction of South 15th Avenue with a 25 feet wide street with curb and gutter and also a five feet wide PCC sidewalk on the west side of South 15th Avenue.

LOCATION OF IMPROVEMENTS

Improvements are located along South 15th Avenue between East Washington Street and East Madison Street, including a parcel south of East Madison Street.

METHOD OF ASSESSMENT

The Flint Formula is the assessment method utilized to distribute the costs among the adjacent property owners. The benefit received by each property is calculated by the length of frontage along the improvement and the proximity to the improvements. The Flint Formula cuts the assessment in half for each 50 feet the property is removed from the improvements to a maximum distance of 300 feet. The assessment is zero beyond the 300 feet.

A chart of the Flint Formula is included in the Appendix.

BASIS OF ASSESSMENT

The assessment policy for the City of Washington indicates that the property owner will be assessed at a maximum assessment rate of 30% of the cost for street and sidewalk improvements along the frontage. The special benefit for each property will be considered individually and the assessment rate may be adjusted lower by Council.

The benefited properties are those properties which fall within 300 feet of the road right-of-way, or half the distance to the next platted street, whichever is less.

The assessment schedule is located in the appendix.

PROJECT COSTS

The engineer's record of total construction cost is located in the appendix.

Total Project Cost: \$782,903.76

	ASSESSABLE COST	ASSESSED AT 30%
Paving of S. 15 th Ave. north of E. Madison St.	\$91,077.50	\$27,323.24
Sidewalks along S. 15 th Ave. north of E. Madison St.	\$13,726.26	\$4,117.87
Sidewalks along S. 15 th Ave. south of E. Madison St.	\$2,761.74	\$828.52

Appendix

- FINAL PROJECT COSTS
- COSTS TO BE ASSESSED
- ASSESSMENT SCHEDULE
- ASSESSMENT PLAT
- ASSESSMENT FORMULA

Final Project Costs
South 15th Avenue Pavement Reconstruction and
Sidewalk
Washington, Iowa

G&A 5016276

No.	Item	Unit	Estimated Quantity	Final Quantity	Unit Price	Extended Price
Base Bid						
1.	Clearing and Grubbing	LS	1	1.00	\$2,500.00	\$2,500.00
2.	Excavation, Class 10	CY	3,595	3666.43	\$7.00	\$25,665.00
3.	Subgrade Preparation (12" Thick)	SY	5,150	5150.00	\$2.20	\$11,330.00
4.	Subbase, Modified	SY	5,150	5150.00	\$6.30	\$32,445.00
5.	Compaction Testing	LS	1	0.00	\$4,000.00	\$0.00
6.	Trench Foundation	TON	50	0.00	\$20.00	\$0.00
7.	Trench Compaction Testing (Water Main, Storm Sewer, Sanitary Sewer)	LS	1	0.00	\$4,000.00	\$0.00
8.	Sanitary Sewer Gravity Main, Trenched, PVC, 8"	LF	541	553.00	\$21.00	\$11,613.00
9.	Sanitary Sewer Service Stub, PVC, 4"	LF	400	358.00	\$23.00	\$8,234.00
10.	Storm Sewer, Trenched, 15"	LF	1,096	1382.00	\$40.00	\$55,280.00
11.	Storm Sewer, Trenched, 18"	LF	875	841.00	\$37.00	\$31,117.00
12.	Removal of Storm Sewer, <18" Dia.	LF	500	500.00	\$5.00	\$2,500.00
13.	Subdrain, Longitudinal, 4"	LF	2,600	2572.00	\$5.50	\$14,146.00
14.	Subdrain Outlets and Connections, CMP or PVC, 6"	EA	18	18.00	\$400.00	\$7,200.00
15.	Storm Sewer Service Stub, PVC, 4" or 6"	LF	25	25.00	\$25.00	\$625.00
16.	Water Main, Trenched, DIP w/Nitrile Gaskets, 4"	LF	20	20.00	\$95.00	\$1,900.00
17.	Water Main, Trenched, PVC, 8"	LF	1,130	1120.00	\$21.00	\$23,520.00
18.	Water Main, Trenched, DIP w/Nitrile Gaskets, 8"	LF	100	99.00	\$55.00	\$5,445.00
19.	Water Main, Trenched, PVC, 12"	LF	500	460.00	\$31.00	\$14,260.00
20.	Water Service Pipe, Trenched, Type K Copper, 1"	LF	625	625.00	\$20.00	\$12,500.00
21.	Water Service Corporation, 1"	EA	21	25.00	\$340.00	\$8,500.00
22.	Water Service Curb Stop and Box, 1"	EA	21	25.00	\$290.00	\$7,250.00
23.	Gate Valve, 8"	EA	7	7.00	\$1,200.00	\$8,400.00
24.	Gate Valve, 12"	EA	1	1.00	\$2,100.00	\$2,100.00
25.	Tapping Valve Assembly, 12"x 12"	EA	1	1.00	\$4,950.00	\$4,950.00
26.	Fire Hydrant Assembly	EA	4	4.00	\$3,900.00	\$15,600.00
27.	Fire Hydrant Assembly Removal	EA	1	1.00	\$500.00	\$500.00
28.	Valve Box Removal	EA	1	1.00	\$500.00	\$500.00
29.	Connection No. 1	LS	1	1.00	\$1,000.00	\$1,000.00
30.	Connection No. 2	LS	1	1.00	\$1,000.00	\$1,000.00
31.	Lower Existing Water Main, 6" Dia.	EA	2	2.00	\$1,900.00	\$3,800.00
32.	Lower Existing Water Main, 12" Dia.	EA	1	1.00	\$3,000.00	\$3,000.00
33.	Manhole, SW-301, 48" Dia.	EA	2	4.00	\$3,300.00	\$13,200.00
34.	Manhole, SW-401, 48" Dia.	EA	4	4.00	\$2,795.00	\$11,180.00
35.	SW-501 Intake	EA	8	9.00	\$2,750.00	\$24,750.00
36.	SW-502 Intake, 48" Dia.	EA	2	2.00	\$2,800.00	\$5,600.00
37.	SW-512 Intake, 24" Riser, Case 1	EA	2	2.00	\$2,300.00	\$4,600.00
38.	SW-513 Intake, 4' x 4'	EA	6	5.00	\$4,300.00	\$21,500.00
39.	Drop Connection	EA	1	0.00	\$5,000.00	\$0.00
40.	Manhole Adjustment, Major	EA	2	2.00	\$1,200.00	\$2,400.00
41.	Connection to Existing Manhole	EA	1	1.00	\$1,000.00	\$1,000.00
42.	Remove Existing Manhole	EA	1	3.00	\$1,000.00	\$3,000.00
43.	Remove Existing Intake	EA	3	3.00	\$1,000.00	\$3,000.00
44.	Pavement, PCC, 7" Thick	SY	4,550	4550.00	\$43.00	\$195,650.00
45.	Curb and Gutter, 30" and 36" Width, 7" Thick	LF	29	0.00	\$50.00	\$0.00
46.	PCC Pavement Samples and Testing	LS	1	1.00	\$7,000.00	\$7,000.00
47.	Removal of Driveway	SY	171	190.70	\$10.00	\$1,907.00
48.	Sidewalk, PCC, 4" Thick	SY	361	361.00	\$41.22	\$14,880.42
49.	Sidewalk, PCC, 6" Thick	SY	76	94.06	\$47.97	\$4,512.06
50.	Detectable Warning	SF	20	20.00	\$15.50	\$310.00
51.	Driveway, Paved, PCC, 6" Thick	SY	301	435.77	\$49.77	\$21,688.27
52.	Driveway, Granular (Class A Crushed Stone, IDOT Gradation No. 11)	TON	64	28.95	\$30.00	\$868.50
53.	Full Depth Patches (HMA, 6" Thick)	SY	405	561.89	\$70.76	\$39,759.34
54.	Subbase Overexcavation	TON	130	250.29	\$48.88	\$12,234.18
55.	Curb and Gutter Removal	LF	29	37.00	\$29.25	\$1,082.25
56.	Temporary Traffic Control	LS	1	1.00	\$2,750.00	\$2,750.00
57.	Hydraulic Seeding, Fertilizing, and Mulching	LS	1	1.13	\$6,000.00	\$6,750.00
58.	SWPPP Preparation	LS	1	1.00	\$1,000.00	\$1,000.00
59.	SWPPP Management	LS	1	1.00	\$1,500.00	\$1,500.00
60.	Silt Fence	LF	500	0.00	\$2.00	\$0.00
61.	Silt Fence – Removal of Sediment	LF	500	0.00	\$1.00	\$0.00
62.	Silt Fence, Removal of Device	LF	500	0.00	\$1.00	\$0.00
63.	Removal of Fence	LF	350	350.00	\$1.00	\$350.00
64.	Mobilization	LS	1	1.00	\$25,000.00	\$25,000.00
65.	CO #1	LS	0	1.00	\$30,310.00	\$30,310.00
66.	CO #2	LS	0	1.00	\$5,865.00	\$5,865.00
67.	CO #3	LS	0	1.00	\$2,376.75	\$2,376.75
Final Contract Price						\$782,903.76

COSTS TO BE ASSESSED

Estimated Valuation of Costs to be Assessed Against Private Property
 South 15th Ave, Water Main, Sanitary Sewer, Storm Sewer & Paving
 Washington, Iowa

Assessments to Properties North of East Madison Street: Paving				
	Units	Estimated Unit Price	Estimated Quantity	Extended Amount
SUBGRADE PREPARATION	SY	\$2.20	1859	\$4,089.80
MODIFIED SUBBASE	SY	\$6.30	1859	\$11,711.70
PAVEMENT, PCC, 7"	SY	\$43.00	1603	\$68,929.00
LONGITUDINAL SUBDRAIN , PVC OR PE, 4"	LF	\$5.50	1154	\$6,347.00
Total Assessable Cost, North Paving				\$91,077.50
Total Assessed Amount, North Paving				\$27,323.24

Assessments to Properties North of East Madison Street: Sidewalks				
	Units	Estimated Unit Price	Estimated Quantity	Extended Amount
SIDEWALK, 4" THICK	SY	\$41.22	333	\$13,726.26
Total Assessable Cost, North Sidewalks				\$13,726.26
Total Assessed Amount, North Sidewalks				\$4,117.89

Assessments to Properties South of East Madison Street: Sidewalks				
	Units	Estimated Unit Price	Estimated Quantity	Extended Amount
SIDEWALK, 4" THICK	SY	\$41.22	67	\$2,761.74
Total Assessable Cost, South Sidewalks				\$2,761.74
Total Assessed Amount, South Sidewalks				\$828.52

Assessment Totals for Entire Assessment District				
Total Assessable Cost, Entire District				\$107,565.50
Total Assessed Amount, Entire District				\$32,269.65

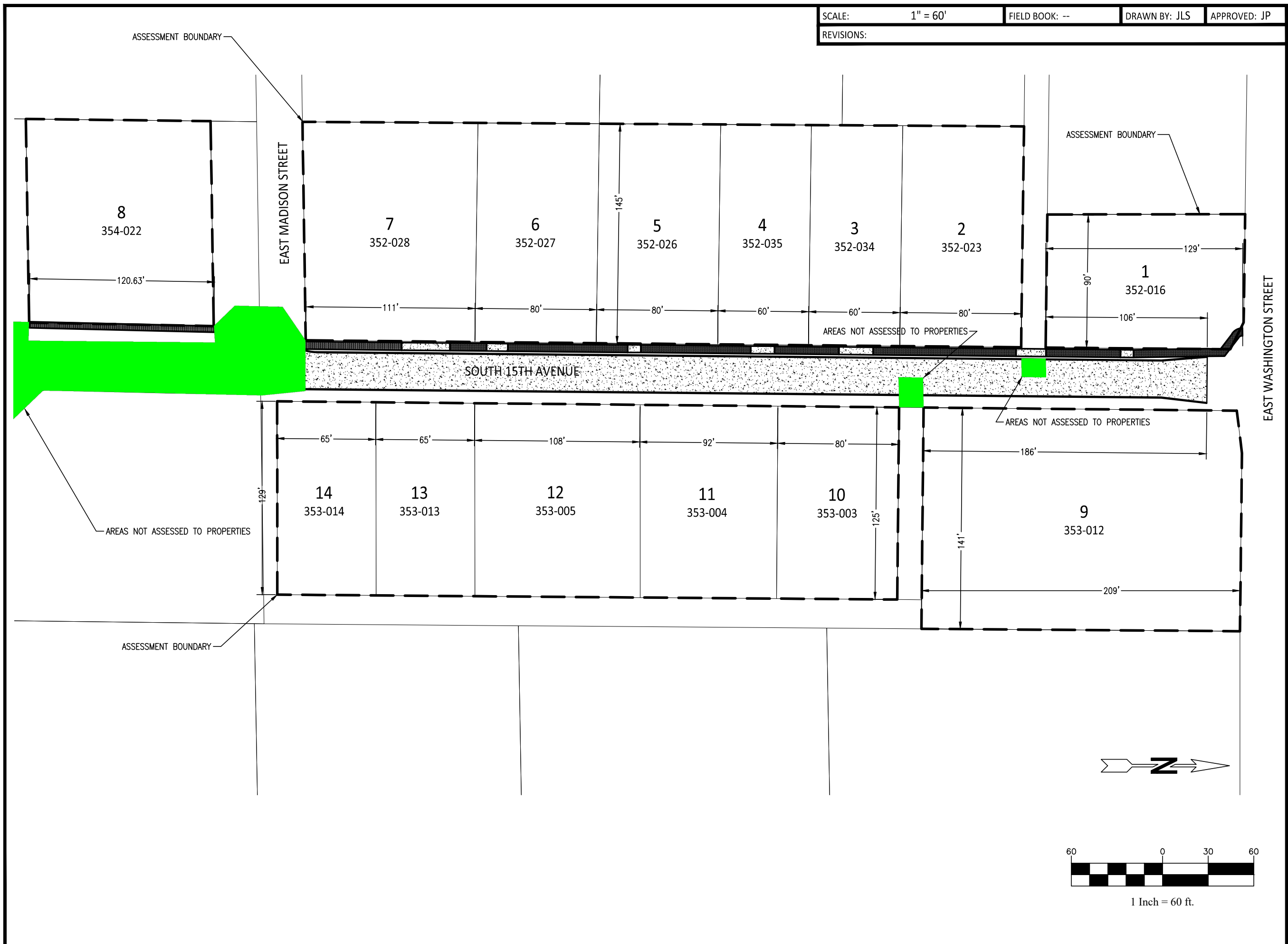
Final Assessment Schedule
 South 15th Ave, Water Main, Sanitary
 Sewer, Storm Sewer & Paving
 Washington, Iowa - 2019

Plat Item NO.	Parcel NO.	Owner	Description of Property	Assessed Value	Valuation Fixed by Council	25% of Fixed Valuation	Depth (Feet)	Assessment Factor	Type	Lot/Parcel Frontage (Feet)	Assessment Distribution	Trial Assessment	Final Assessment Rate	Adjusted Final Assessment	Final Property Assessment
1	11-16-352-016	Greiner, Bette A.	05 Shannon Heights Lot 4 &	\$53,600	\$53,600	\$13,400	90	1.43	Paving	106	152	\$7,048.77	30%	\$2,114.63	\$2,114.63
									Sidewalk	129	184	\$1,241.10	30%	\$372.33	\$372.33
									TOTAL					\$2,486.96	\$2,486.96
2	11-16-352-023	Lemley, Lucille	38 Shannon Heights Lot 37 38 & 1/2 Adj Vac Aly	\$92,400	\$92,400	\$23,100	145	1.73	Paving	80	138	\$6,399.54	30%	\$1,919.86	\$1,919.86
									Sidewalk	80	138	\$930.82	30%	\$279.25	\$279.25
									TOTAL					\$2,199.11	\$2,199.11
3	11-16-352-034	Vogel, Donald J. & Marlene C.	Shannon Heights Lot 39 & N 1/2 Lot 40 & 1/2 Adj Vac Aly	\$45,300	\$45,300	\$11,325	137	1.70	Paving	60	102	\$4,730.09	30%	\$1,419.03	\$1,419.03
									Sidewalk	60	102	\$688.00	30%	\$206.40	\$206.40
									TOTAL					\$1,625.43	\$1,625.43
4	11-16-352-035	Vogel, Donald J. & Marlene C.	Shannon Heights Lot 41 & & S 1/2 Lot 40 & 1/2 Vac Aly	\$15,000	\$15,000	\$3,750	137	1.70	Paving	60	102	\$4,730.09	30%	\$1,419.03	\$1,419.03
									Sidewalk	60	102	\$688.00	30%	\$206.40	\$206.40
									TOTAL					\$1,625.43	\$1,625.43
5	11-16-352-026	Andrade, Gabriella O.	Shannon Heights Lot 42 43 & 1/2 Adj Vac Aly	\$53,000	\$53,000	\$13,250	145	1.73	Paving	80	138	\$6,399.54	30%	\$1,919.86	\$1,919.86
									Sidewalk	80	138	\$930.82	30%	\$279.25	\$279.25
									TOTAL					\$2,199.11	\$2,199.11
6	11-16-352-027	Duwa, Deon J. & Julie A.	Shannon Heights Lot 44 45 & 1/2 Adj Vac Aly	\$83,500	\$83,500	\$20,875	145	1.73	Paving	80	138	\$6,399.54	30%	\$1,919.86	\$1,919.86
									Sidewalk	80	138	\$930.82	30%	\$279.25	\$279.25
									TOTAL					\$2,199.11	\$2,199.11
7	11-16-352-028	Brown, Eric	Shannon Heights Lot 46 47 48 & 1/2 Adj Vac Aly	\$111,200	\$111,200	\$27,800	145	1.73	Paving	111	192	\$8,903.71	30%	\$2,671.11	\$2,671.11
									Sidewalk	111	192	\$1,295.06	30%	\$388.52	\$388.52
									TOTAL					\$3,059.63	\$3,059.63
8	11-16-354-022	Martin, Sharon K.	16 75 07 Lot 2 Par L SW1/4 SW1/4	\$147,700	\$147,700	\$36,925	134	1.69	Sidewalk	120.63	204	\$2,761.74	30%	\$828.52	\$828.52
9	11-16-353-012	Marsengill, Kenneth E. & Eldora M.	Shannon Heights Lot 1 2 3 Exc Hwy & Lot 60 & N 24 Ft Lot 59 & Adj Aly	\$194,000	\$194,000	\$48,500	141	1.72	Paving	186	320	\$14,839.51	30%	\$4,451.85	\$4,451.85
									Sidewalk	209	359	\$2,421.49	30%	\$726.45	\$726.45
									TOTAL					\$5,178.30	\$5,178.30
10	11-16-353-003	Stutzman, Walter E. & Patricia A.	58 Shannon Heights Lot 57 &	\$120,700	\$120,700	\$30,175	125	1.65	Paving	80	132	\$6,121.30	30%	\$1,836.39	\$1,836.39
									Sidewalk	80	132	\$890.35	30%	\$267.11	\$267.11
									TOTAL					\$2,103.50	\$2,103.50
11	11-16-353-004	Guengerich, Jack H.	54 Shannon Heights Lot 55 56 & & N 12 Ft	\$81,000	\$81,000	\$20,250	127	1.66	Paving	92	153	\$7,095.14	30%	\$2,128.54	\$2,128.54
									Sidewalk	92	153	\$1,032.00	30%	\$309.60	\$309.60
									TOTAL					\$2,438.14	\$2,438.14
12	11-16-353-005	Dougall, Dennis J. & Linda L.	54 Shannon Heights Lot 52 53 & S 28 Ft	\$111,500	\$111,500	\$27,875	128	1.66	Paving	108	179	\$8,300.85	30%	\$2,490.26	\$2,490.26
									Sidewalk	108	179	\$1,207.37	30%	\$362.21	\$362.21
									TOTAL					\$2,852.47	\$2,852.47
13	11-16-353-013	Lester, James	Shannon Heights Part D	\$171,000	\$171,000	\$42,750	129	1.67	Paving	65	109	\$5,054.71	30%	\$1,516.41	\$1,516.41
									Sidewalk	65	109	\$735.21	30%	\$220.56	\$220.56
									TOTAL					\$1,736.97	\$1,736.97
14	11-16-353-014	Knowles, Jean	Shannon Heights Part E	\$202,300	\$202,300	\$50,575	129	1.67	Paving	65	109	\$5,054.71	30%	\$1,516.41	\$1,516.41
									Sidewalk	65	109	\$735.21	30%	\$220.56	\$220.56
									TOTAL					\$1,736.97	\$1,736.97
										NORTH PAVING	\$91,077.50	1964	\$91,077.50	\$27,323.24	\$27,323.24
										NORTH SIDEWALKS	\$13,726.26	2035	\$13,726.26	\$4,117.89	\$4,117.89
										SOUTH SIDEWALKS	\$2,761.74	204	\$2,761.74	\$828.52	\$828.52
TOTALS												\$107,565.50		\$32,269.65	\$32,269.65

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SCALE: 1" = 60' FIELD BOOK: -- DRAWN BY: JLS APPROVED: JP

REVISIONS:



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SOUTH 15TH AVE, WATER MAIN, SANITARY SEWER, STORM SEWER & PAVING WASHINGTON, IOWA
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SHEET TITLE
ASSESSMENT PLAT

DATE:
 JUNE 12, 2020

PROJECT NO.:
 5016276

SHEET NO.:
1 OF 1

Assessment Formula - Incremental Rate is Halved for Each 50' Distance

Assessment Factor is the Incremental Rate Applied to Cumulative Depth

Lot Depth (ft)	Incremental Rate	Assessment Factor	Lot Depth (ft)	Incremental Rate	Assessment Factor	Lot Depth (ft)	Incremental Rate	Assessment Factor	Lot Depth (ft)	Incremental Rate	Assessment Factor	Lot Depth (ft)	Incremental Rate	Assessment Factor	Lot Depth (ft)	Incremental Rate	Assessment Factor
1	0.02753	0.028	51	0.01377	1.01	101	0.00688	1.51	151	0.00344	1.75	201	0.00172	1.88	251	0.00086	1.94
2	0.02716	0.055	52	0.01358	1.03	102	0.00679	1.51	152	0.00339	1.76	202	0.00170	1.88	252	0.00085	1.94
3	0.02678	0.081	53	0.01339	1.04	103	0.00670	1.52	153	0.00335	1.76	203	0.00167	1.88	253	0.00084	1.94
4	0.02641	0.108	54	0.01321	1.05	104	0.00660	1.53	154	0.00330	1.76	204	0.00165	1.88	254	0.00083	1.94
5	0.02605	0.134	55	0.01302	1.07	105	0.00651	1.53	155	0.00326	1.77	205	0.00163	1.88	255	0.00081	1.94
6	0.02569	0.160	56	0.01285	1.08	106	0.00642	1.54	156	0.00321	1.77	206	0.00161	1.88	256	0.00080	1.94
7	0.02534	0.185	57	0.01267	1.09	107	0.00633	1.55	157	0.00317	1.77	207	0.00158	1.89	257	0.00079	1.94
8	0.02499	0.210	58	0.01249	1.10	108	0.00625	1.55	158	0.00312	1.78	208	0.00156	1.89	258	0.00078	1.94
9	0.02464	0.235	59	0.01232	1.12	109	0.00616	1.56	159	0.00308	1.78	209	0.00154	1.89	259	0.00077	1.94
10	0.02430	0.259	60	0.01215	1.13	110	0.00608	1.56	160	0.00304	1.78	210	0.00152	1.89	260	0.00076	1.95
11	0.02397	0.283	61	0.01199	1.14	111	0.00599	1.57	161	0.00300	1.79	211	0.00150	1.89	261	0.00075	1.95
12	0.02364	0.307	62	0.01182	1.15	112	0.00591	1.58	162	0.00296	1.79	212	0.00148	1.89	262	0.00074	1.95
13	0.02331	0.330	63	0.01166	1.16	113	0.00583	1.58	163	0.00291	1.79	213	0.00146	1.90	263	0.00073	1.95
14	0.02299	0.353	64	0.01150	1.18	114	0.00575	1.59	164	0.00287	1.79	214	0.00144	1.90	264	0.00072	1.95
15	0.02268	0.375	65	0.01134	1.19	115	0.00567	1.59	165	0.00283	1.80	215	0.00142	1.90	265	0.00071	1.95
16	0.02237	0.398	66	0.01118	1.20	116	0.00559	1.60	166	0.00280	1.80	216	0.00140	1.90	266	0.00070	1.95
17	0.02206	0.420	67	0.01103	1.21	117	0.00551	1.60	167	0.00276	1.80	217	0.00138	1.90	267	0.00069	1.95
18	0.02175	0.442	68	0.01088	1.22	118	0.00544	1.61	168	0.00272	1.81	218	0.00136	1.90	268	0.00068	1.95
19	0.02145	0.463	69	0.01073	1.23	119	0.00536	1.62	169	0.00268	1.81	219	0.00134	1.90	269	0.00067	1.95
20	0.02116	0.484	70	0.01058	1.24	120	0.00529	1.62	170	0.00264	1.81	220	0.00132	1.91	270	0.00066	1.95
21	0.02087	0.505	71	0.01043	1.25	121	0.00522	1.63	171	0.00261	1.81	221	0.00130	1.91	271	0.00065	1.95
22	0.02058	0.526	72	0.01029	1.26	122	0.00515	1.63	172	0.00257	1.82	222	0.00129	1.91	272	0.00064	1.95
23	0.02030	0.546	73	0.01015	1.27	123	0.00507	1.64	173	0.00254	1.82	223	0.00127	1.91	273	0.00063	1.95
24	0.02002	0.566	74	0.01001	1.28	124	0.00500	1.64	174	0.00250	1.82	224	0.00125	1.91	274	0.00063	1.96
25	0.01974	0.586	75	0.00987	1.29	125	0.00494	1.65	175	0.00247	1.82	225	0.00123	1.91	275	0.00062	1.96
26	0.01947	0.605	76	0.00973	1.30	126	0.00487	1.65	176	0.00243	1.83	226	0.00122	1.91	276	0.00061	1.96
27	0.01920	0.624	77	0.00960	1.31	127	0.00480	1.66	177	0.00240	1.83	227	0.00120	1.91	277	0.00060	1.96
28	0.01894	0.643	78	0.00947	1.32	128	0.00473	1.66	178	0.00237	1.83	228	0.00118	1.92	278	0.00059	1.96
29	0.01868	0.662	79	0.00934	1.33	129	0.00467	1.67	179	0.00233	1.83	229	0.00117	1.92	279	0.00058	1.96
30	0.01842	0.680	80	0.00921	1.34	130	0.00460	1.67	180	0.00230	1.84	230	0.00115	1.92	280	0.00058	1.96
31	0.01817	0.699	81	0.00908	1.35	131	0.00454	1.67	181	0.00227	1.84	231	0.00114	1.92	281	0.00057	1.96
32	0.01792	0.717	82	0.00896	1.36	132	0.00448	1.68	182	0.00224	1.84	232	0.00112	1.92	282	0.00056	1.96
33	0.01767	0.734	83	0.00883	1.37	133	0.00442	1.68	183	0.00221	1.84	233	0.00110	1.92	283	0.00055	1.96
34	0.01743	0.752	84	0.00871	1.38	134	0.00436	1.69	184	0.00218	1.84	234	0.00109	1.92	284	0.00054	1.96
35	0.01719	0.769	85	0.00859	1.38	135	0.00430	1.69	185	0.00215	1.85	235	0.00107	1.92	285	0.00054	1.96
36	0.01695	0.786	86	0.00847	1.39	136	0.00424	1.70	186	0.00212	1.85	236	0.00106	1.92	286	0.00053	1.96
37	0.01672	0.803	87	0.00836	1.40	137	0.00418	1.70	187	0.00209	1.85	237	0.00104	1.93	287	0.00052	1.96
38	0.01649	0.819	88	0.00824	1.41	138	0.00412	1.70	188	0.00206	1.85	238	0.00103	1.93	288	0.00052	1.96
39	0.01626	0.835	89	0.00813	1.42	139	0.00406	1.71	189	0.00203	1.85	239	0.00102	1.93	289	0.00051	1.96
40	0.01604	0.851	90	0.00802	1.43	140	0.00401	1.71	190	0.00200	1.86	240	0.00100	1.93	290	0.00050	1.96
41	0.01581	0.867	91	0.00791	1.43	141	0.00395	1.72	191	0.00198	1.86	241	0.00099	1.93	291	0.00049	1.96
42	0.01560	0.883	92	0.00780	1.44	142	0.00390	1.72	192	0.00195	1.86	242	0.00097	1.93	292	0.00049	1.97
43	0.01538	0.898	93	0.00769	1.45	143	0.00385	1.72	193	0.00192	1.86	243	0.00096	1.93	293	0.00048	1.97
44	0.01517	0.913	94	0.00759	1.46	144	0.00379	1.73	194	0.00190	1.86	244	0.00095	1.93	294	0.00047	1.97
45	0.01496	0.928	95	0.00748	1.46	145	0.00374	1.73	195	0.00187	1.87	245	0.00094	1.93	295	0.00047	1.97
46	0.01476	0.943	96	0.00738	1.47	146	0.00369	1.74	196	0.00184	1.87	246	0.00092	1.93	296	0.00046	1.97
47	0.01455	0.958	97	0.00728	1.48	147	0.00364	1.74	197	0.00182	1.87	247	0.00091	1.93	297	0.00045	1.97
48	0.01435	0.972	98	0.00718	1.49	148	0.00359	1.74	198	0.00179	1.87	248	0.00090	1.94	298	0.00045	1.97
49	0.01415	0.986	99	0.00708	1.49	149	0.00354	1.75	199	0.00177	1.87	249	0.00088	1.94	299	0.00044	1.97
50	0.01396	1.000	100	0.00698	1.50	150	0.00349	1.75	200	0.00174	1.88	250	0.00087	1.94	300	0.00044	1.97