THE CITY OF CROOKSTON

124 North Broadway, Crookston, MN 56716
218 281-1232 Fax 218 281-5609

February 10, 2023

NOTICE OF MEETING

A member or members of the Crookston City Council may participate by telephone or other electronic means. If you would like to watch live, please like and subscribe on our YouTube Channel at: https://www.youtube.com/c/CityofCrookstonChannel

For quorum purposes, if you are unable to attend, please call Tina at 281-1232. Thank you.

WAYS & MEANS COMMITTEE MEETING

Monday, February 13, 2023
Immediately Following the City Council Meeting
City Hall Council Chambers

OPEN AGENDA:

1. Street Assessment Discussion

Mayor/Council: **Stainbrook, Jerde, Fischer, Briggs, Cavalier, Kresl, Klatt, Melbye, Menard**

Staff: **Reynolds**, **Carlson**, Hefta, Heldstab, Kirschbaum, **Lindtwed**, Palm, Selzler, Solberg, Rystad

Other: **Clauson**, Holten

Media: KROX, Crookston Daily Times, City Website

WIDSETH

January 30, 2023

Mayor and City Council
City of Crookston
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Crookston, Minnesota 56716

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Re: **PRELIMINARY ENGINEER'S REPORT**
2023 STREET IMPROVEMENTS

Mayor Stainbrook and Council Members:

This report is furnished in response to your request calling for a preliminary report on the various projects proposed for the summer of 2023.

The proposed projects to be included in the 2023 Street Improvements would involve the following: (See attached city map for project locations)

Street Reconstruction

1) Houston Avenue – Hunter Street to South Ash Street - (Local Project)
2) Alexander Street – 4th Avenue North to approx. 425 feet north - (Local Project)
3) Euclid Avenue – Guthrie Street to McKinley Boulevard – (Local Project)
4) Guthrie Street – Euclid Avenue to 5th Avenue South – (Local Project)
5) Guthrie Street – 5th Avenue South to DAC bus garage approach – (Local Project)
6) Alley off Elm Street between Summit Avenue and Central Avenue – (Local Project)

RECONSTRUCTION PROJECTS

Houston Avenue – Hunter Street to South Ash Street (Local Project)
Project Length: 875 feet

Houston Avenue is a bituminous surfaced roadway with a width of twenty-nine feet. Curb & gutter and concrete sidewalk run along this segment on both sides of the street. There is existing sanitary sewer and watermain under the roadway. The watermain and service lines will be replaced as part of the project. Existing storm sewer at the Holly Avenue intersection will be replaced due to age and location with regards to the new alignment. The extent of the storm sewer replacement will be determined during plan development.

The proposed work on Houston Avenue would consist of replacing the existing watermain and services up to and including the curb stops. The roadway would be reconstructed to a width of thirty-two feet. At this time, the existing concrete sidewalk along both sides of the street would be replaced. However, this could change based on feedback from the public hearing and staff discussions.

The proposed typical section would consist of a 32-foot-wide roadway with concrete curb and gutter on both sides of the street. The nine-ton typical section would consist of 2" of bituminous wear and 2" of bituminous base on top of 18" of Class 5 Aggregate Base. A geotextile fabric will be placed on top of the clay sub-grade to keep the clay from pumping up into and contaminating the aggregate material. A four-inch drain tile would also be installed along the edge of the

excavation and tied into the existing storm sewer to help control high ground water from saturating the roadbed.

As mentioned above, the utility work planned is to install a new six-inch watermain and one-inch service lines up to and including a new curb stop. Storm sewer work would consist of new catch basins, manholes and piping at the Holly Avenue intersection. If privately-owned utilities need to be relocated, this will be coordinated with the utility owner. The relocation of the privately-owned utilities would be done by the utility owner at their expense.

The preliminary cost estimate of the proposed reconstruction of Houston Avenue from Hunter Street to South Ash Street is detailed at the back of this report.

Alexander Street – 4th Avenue North to approx. 425 feet north (Local Project)
Project Length: 425 feet

Alexander Street is a bituminous surfaced roadway with a width of thirty-eight feet. Curb & gutter and concrete sidewalk run along this segment on both sides of the street. However, the concrete sidewalk ends on both sides at the north end of the project area. There is existing sanitary sewer and watermain under the roadway. The watermain was replaced last summer by the water department staff. The existing storm sewer catch basins on the north end of the project will be replaced along with the piping to the manholes.

The proposed work on Alexander Street would consist of reconstructing the roadway to its current width of thirty-eight feet with concrete curb and gutter on both sides of the street. The nine-ton typical section would consist of 2" of bituminous wear and 2" of bituminous base on top of 18" of Class 5 Aggregate Base. A geotextile fabric will be placed on top of the clay sub-grade to keep the clay from pumping up into and contaminating the aggregate material. A four-inch drain tile would also be installed along the edge of the excavation and tied into the existing storm sewer to help control high ground water from saturating the roadbed. Like Houston Avenue, at this time, the existing concrete sidewalk along both sides of the street would be replaced. However, this could change based on feedback from the public hearing and staff discussions.

No utility work is planned except for the storm sewer improvements where indicated above. However, if privately-owned utilities need to be relocated, this will be coordinated with the utility owner. The relocation of the privately-owned utilities would be done by the utility owner at their expense.

The preliminary cost estimate of the proposed reconstruction of Alexander Street from 4th Avenue North to approximately 425 feet north is detailed at the back of this report.

Euclid Avenue – Guthrie Street to McKinley Blvd (Local Project)
Project Length: 700 feet

Euclid Avenue is a gravel surfaced roadway with a width that varies from 24 to 28 feet for the first 350 feet of length. At this time, the remaining 350 feet is undeveloped. There is no existing curb & gutter or sidewalk. There is existing watermain and sanitary sewer under the roadway, but none will need to be replaced. Some storm sewer work will be needed to facilitate drainage to the ditch adjacent to McKinley Boulevard or the intersection of Guthrie Street.

The proposed work on Euclid Avenue would consist of reconstructing / constructing the roadway to a width of thirty-two feet with concrete curb and gutter on both sides of the street. The nine-ton typical section would consist of 2" of bituminous wear and 2" of bituminous base on top of 18" of Class 5 Aggregate Base. A geotextile fabric will be placed on top of the clay sub-grade to keep the clay from pumping up into and contaminating the aggregate material. A four-inch drain tile would also be installed along the edge of the excavation and tied into the existing storm sewer to help control high ground water from saturating the roadbed. No sidewalk is being considered on the Euclid Avenue project.

No major utility work will be done on this project except for the needed storm sewer to facilitate drainage.

The preliminary estimated cost of the proposed work on Euclid Avenue from Guthrie to McKinley Boulevard is detailed at the back of this report.

Guthrie Street – Euclid Avenue to 5th Avenue South (Local Project)
Project Length: 400 feet

Guthrie Street is a gravel surfaced roadway with a width of thirty-two feet. There is no existing curb & gutter along the east side of the street. The west side of the street has curb & gutter on the north end of the proposed project. There is no existing watermain and sanitary sewer under the roadway. Limited storm sewer work may be needed so catch basins fit the proposed curb line.

The proposed work on Guthrie Street would consist of reconstructing the roadway to its current width of thirty-two feet with concrete curb and gutter on both sides of the street. The nine-ton typical section would consist of 2" of bituminous wear and 2" of bituminous base on top of 18" of Class 5 Aggregate Base. A geotextile fabric will be placed on top of the clay sub-grade to keep the clay from pumping up into and contaminating the aggregate material. A four-inch drain tile would also be installed along the edge of the excavation and tied into the existing storm sewer to help control high ground water from saturating the roadbed. No sidewalk is being considered on the Guthrie Street project.

No major utility work will be done on this project.

The preliminary estimated cost of the proposed work on Guthrie Street from Euclid Avenue to 5th Avenue South is detailed at the back of this report.

Guthrie Street – 5th Avenue South to DAC bus garage approach (Local Project)
Project Length: 300 feet

Guthrie Street is a gravel surfaced roadway with a width of thirty-two feet. There is no existing curb & gutter along either side of the street. There is no existing watermain and sanitary sewer under the roadway. Limited storm sewer work may be needed so catch basins fit the proposed curb line.

The proposed work on Guthrie Street would consist of reconstructing the roadway to its current width of thirty-two feet with concrete curb and gutter on both sides of the street. The nine-ton typical section would consist of 2" of bituminous wear and 2" of bituminous base on top of 18" of Class 5 Aggregate Base. A geotextile fabric will be placed on top of the clay sub-grade to keep

the clay from pumping up into and contaminating the aggregate material. A four-inch drain tile would also be installed along the edge of the excavation and tied into the existing storm sewer to help control high ground water from saturating the roadbed. No sidewalk is being considered on the Guthrie Street project.

No major utility work will be done on this project.

The preliminary estimated cost of the proposed work on Guthrie Street from 5th Avenue South to the DAC bus garage approach is detailed at the back of this report.

Alley Off Elm Street between Summit Avenue and Central Avenue (Local Project)
Project Length: 300 feet

This alley is a gravel surfaced alley on the west side of Elm Street between Summit Avenue and Central Avenue. The width of the roadway is approximately twelve feet. The reason this project is proposed is after moderated to heavy rainfall, a substantial amount of gravel washes out of the alley onto Elm Street. Some of this gravel eventually makes its way to the bottom of the Elm Street and washes into the storm sewer system while the rest remains on the roadway.

The proposed work would consist of excavating and placing 8" of class 5 aggregate base with three inches of bituminous wear placed on top.

The preliminary estimated cost of the proposed work to pave the alley west of Elm Street between Summit Avenue and Central Avenue is detailed at the back of this report.

2023 PROJECT COST SUMMARY

Listed below are the projects for the 2023 Street Improvements, along with their respective preliminary estimated cost.

	Total Cost	Funding Source
Houston Avenue Reconstruction: *(Hunter Street to South Ash Street)*	$805,125.00	Local Funds
Alexander Street Reconstruction: *(4th Avenue N. to 425 feet north)*	$408,139.00	Local Funds
Euclid Avenue Reconstruction: *(Guthrie Street to McKinley Blvd.)*	$420,191.00	Local Funds
Guthrie Street Reconstruction: *(Euclid Avenue to 5th Avenue South)*	$235,453.00	Local Funds
Guthrie Street Reconstruction: *(5th Avenue South to the DAC garage approach)*	$153,596.00	Local Funds
Elm Street Alley between Summit & Central: *(Alley on West side of Elm Street)*	$38,759.00	Local Funds
Total Estimated Project Cost for 2023 Projects	**$2,061,263.00**	

In summary, the projects outlined in this report are feasible. If some or all the projects outlined in this report are acceptable to the council, the next step would be to hold a public hearing in accordance with Minnesota State Statues, Chapter 429, for the property owners to be assessed so plans and specifications for the 2023 Street Improvements can move forward.

Respectfully submitted,

WIDSETH SMITH NOLTING & ASSOCIATES, INC.

Richard A. Clauson, P.E.

PRELIMINARY ENGINEER'S ESTIMATE
HOUSTON AVENUE RECONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	HOUSTON AVENUE (HUNTER STREET TO SOUTH ASH STREET) STREET RECONSTRUCTION CITY PROJECT		HOUSTON AVENUE (HUNTER STREET TO SOUTH ASH STREET) WATERMAIN REPLACEMENT CITY PROJECT	
				QUANT.	COST	QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00		
2	REMOVE CURB AND GUTTER	LIN FT	$10.00	1,750	$17,500.00		
3	REMOVE PIPE SEWER	LIN FT	$35.00	150	$5,250.00		
4	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	$15.00	225	$3,375.00		
5	REMOVE BITUMINOUS PAVEMENT	SQ YD	$6.00	3,000	$18,000.00		
6	REMOVE MANHOLE OR CATCH BASIN	EACH	$600.00	6	$3,600.00		
7	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	$8.00	500	$4,000.00		
8	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	$4.00	200	$800.00		
9	REMOVE CONCRETE SIDEWALK	SQ FT	$3.00	8,800	$26,400.00		
10	COMMON EXCAVATION (P)	CU YD	$15.00	2,250	$33,750.00		
11	GEOTEXTILE FABRIC, TYPE V	SQ YD	$3.00	3,500	$10,500.00		
12	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	1,850	$83,250.00		
13	SAWED & SEALED JOINT	LIN FT	$10.00	1,200	$12,000.00		
14	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	$3.00	200	$600.00		
15	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	475.0	$57,000.00		
16	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	$120.00	475.0	$57,000.00		
17	4" PERFORATED PE PIPE DRAIN	LIN FT	$7.50	1,750	$13,125.00		
18	12" RC PIPE SEWER	LIN FT	$100.00	150	$15,000.00		
19	CONSTRUCT DRAINAGE STRUCTURE, DESIGN G	LIN FT	$800.00	40	$32,000.00		
20	CASTING ASSEMBLY (SANITARY)	EACH	$1,800.00	4	$7,200.00		
21	CASTING ASSEMBLY (STORM SEWER)	EACH	$1,800.00	6	$10,800.00		
22	4" CONCRETE WALK - REINFORCED	SQ FT	$11.50	4,100	$47,150.00		
23	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	$35.00	1,800	$63,000.00		
24	6" CONCRETE DRIVEWAY PAVEMENT - REINFORCED	SQ YD	$115.00	350	$40,250.00		
25	TRUNCATED DOMES	SQ FT	$60.00	20	$1,200.00		
26	TRAFFIC CONTROL	LUMP SUM	$2,500.00	1.00	$2,500.00		
27	STORM DRAIN INLET PROTECTION	EACH	$150.00	4	$600.00		
28	EROSION CONTROL SUPERVISOR	LUMP SUM	$500.00	1.0	$500.00		
29	BOULEVARD TOPSOIL BORROW (CV) (P)	CU. YD.	$35.00	30	$1,050.00		
30	TURF ESTABLISHMENT	LUMP SUM	$5,000.00	1.0	$5,000.00		
31	REMOVE EXISTING WATERMAIN	LIN FT	$12.00			900	$10,800.00
32	REMOVE EXISTING HYDRANT	EACH	$1,200.00			3	$3,600.00
33	REMOVE GATE VALVE & BOX	EACH	$800.00			8	$4,800.00
34	REMOVE CURB STOP & BOX	EACH	$500.00			21	$10,500.00
35	INSTALL 8" PVC C-900 WATERMAIN	LIN FT	$35.00			900	$31,500.00
36	INSTALL 1" CORPORATION STOP & SADDLE	EACH	$300.00			21	$6,300.00
37	INSTALL 1" CURB STOP & BOX W/ROD	EACH	$300.00			21	$6,300.00
38	INSTALL 1" TYPE K COPPER SERVICE LINE	LIN FT	$30.00			500	$15,000.00
39	INSTALL HYDRANT	EACH	$2,500.00			3	$7,500.00
40	INSTALL 8" GATE VALVE & BOX	EACH	$1,000.00			9	$9,000.00
41	CONNECT TO EXISTING WATERMAIN	EACH	$2,000.00			4	$8,000.00
42	CONNECT TO EXISTING WATER SERVICE LINE	EACH	$800.00			21	$16,800.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$582,400.00**		**$130,100.00**
	Estimated Engineering: (13% of Construction)				**$75,712.00**		**$16,913.00**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$658,112.00**		**$147,013.00**	

PRELIMINARY ENGINEER'S ESTIMATE
ALEXANDER STREET RECONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ALEXANDER STREET (4TH AVENUE NORTH TO 425 FEET NORTH) STREET RECONSTRUCTION CITY PROJECT	
				QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00
2	REMOVE CURB AND GUTTER	LIN FT	$10.00	450	$4,500.00
3	REMOVE RC PIPE SEWER	LIN FT	$35.00	50	$1,750.00
4	REMOVE MANHOLE OR CATCH BASIN	EACH	$600.00	3	$1,800.00
5	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	$15.00	275	$4,125.00
6	REMOVE BITUMINOUS PAVEMENT	SQ YD	$6.00	1,000	$6,000.00
7	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	$8.00	400	$3,200.00
8	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	$4.00	120	$480.00
9	REMOVE CONCRETE SIDEWALK	SQ FT	$3.00	4,250	$12,750.00
10	COMMON EXCAVATION (P)	CU YD	$15.00	1,400	$21,000.00
11	GEOTEXTILE FABRIC, TYPE V	SQ YD	$3.00	1,900	$5,700.00
12	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	1,050	$47,250.00
13	SAWED & SEALED JOINT	LIN FT	$10.00	550	$5,500.00
14	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	$3.00	110	$330.00
15	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	265.0	$31,800.00
16	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	$120.00	265.0	$31,800.00
17	4" PERFORATED PE PIPE DRAIN	LIN FT	$7.50	850	$6,375.00
18	12" RC PIPE SEWER	LIN FT	$100.00	60	$6,000.00
19	ADJUST VALVE BOX	EACH	$250.00	3	$750.00
20	CONSTRUCT DRAINAGE STRUCTURE, DESIGN G	LIN FT	$800.00	20	$16,000.00
21	CASTING ASSEMBLY (SANITARY)	EACH	$1,800.00	3	$5,400.00
22	CASTING ASSEMBLY (STORM SEWER)	EACH	$1,800.00	4	$7,200.00
23	4" CONCRETE WALK - REINFORCED	SQ FT	$11.50	4,250	$48,875.00
24	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	$35.00	900	$31,500.00
25	6" CONCRETE DRIVEWAY PAVEMENT - REINFORCED	SQ YD	$115.00	350	$40,250.00
26	TRUNCATED DOMES	SQ FT	$60.00	20	$1,200.00
27	TRAFFIC CONTROL	LUMP SUM	$2,500.00	1.00	$2,500.00
28	STORM DRAIN INLET PROTECTION	EACH	$150.00	4	$600.00
29	EROSION CONTROL SUPERVISOR	LUMP SUM	$500.00	1.0	$500.00
30	BOULEVARD TOPSOIL BORROW (CV) (P)	CU. YD.	$35.00	30	$1,050.00
31	TURF ESTABLISHMENT	LUMP SUM	$5,000.00	1.0	$5,000.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$361,185.00**
	Estimated Engineering: (13% of Construction)				**$46,954.05**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$408,139.05**	

PRELIMINARY ENGINEER'S ESTIMATE
EUCLID AVENUE RECONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	EUCLID AVENUE (GUTHRIE STREET TO McKINLEY BOULEVARD) STREET RECONSTRUCTION CITY PROJECT	
				QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00
2	REMOVE CURB AND GUTTER	LIN FT	$10.00	100	$1,000.00
3	REMOVE BITUMINOUS PAVEMENT	SQ YD	$6.00	160	$960.00
4	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	$4.00	100	$400.00
5	COMMON EXCAVATION (P)	CU YD	$15.00	1,800	$27,000.00
6	GEOTEXTILE FABRIC, TYPE V	SQ YD	$3.00	2,700	$8,100.00
7	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	1,400	$63,000.00
8	SAWED & SEALED JOINT	LIN FT	$10.00	500	$5,000.00
9	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	$3.00	130	$390.00
10	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	360.0	$43,200.00
11	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	$120.00	360.0	$43,200.00
12	4" PERFORATED PE PIPE DRAIN	LIN FT	$7.50	1,400	$10,500.00
13	12" RC PIPE SEWER	LIN FT	$100.00	250	$25,000.00
14	ADJUST VALVE BOX	EACH	$250.00	3	$750.00
15	CONSTRUCT DRAINAGE STRUCTURE, DESIGN G	LIN FT	$800.00	20	$16,000.00
16	CASTING ASSEMBLY (SANITARY)	EACH	$1,800.00	3	$5,400.00
17	CASTING ASSEMBLY (STORM SEWER)	EACH	$1,800.00	7	$12,600.00
18	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	$35.00	1,500	$52,500.00
19	6" CONCRETE DRIVEWAY PAVEMENT - REINFORCED	SQ YD	$115.00	350	$40,250.00
20	TRAFFIC CONTROL	LUMP SUM	$500.00	1.00	$500.00
21	STORM DRAIN INLET PROTECTION	EACH	$150.00	4	$600.00
22	EROSION CONTROL SUPERVISOR	LUMP SUM	$500.00	1.0	$500.00
23	BOULEVARD TOPSOIL BORROW (CV) (P)	CU. YD.	$35.00	100	$3,500.00
24	TURF ESTABLISHMENT	LUMP SUM	$1,500.00	1.0	$1,500.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$371,850.00**
	Estimated Engineering: (13% of Construction)				**$48,340.50**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$420,190.50**	

PRELIMINARY ENGINEER'S ESTIMATE
GUTHRIE STREET (Euclid to 5th) RECONSTRUCTION

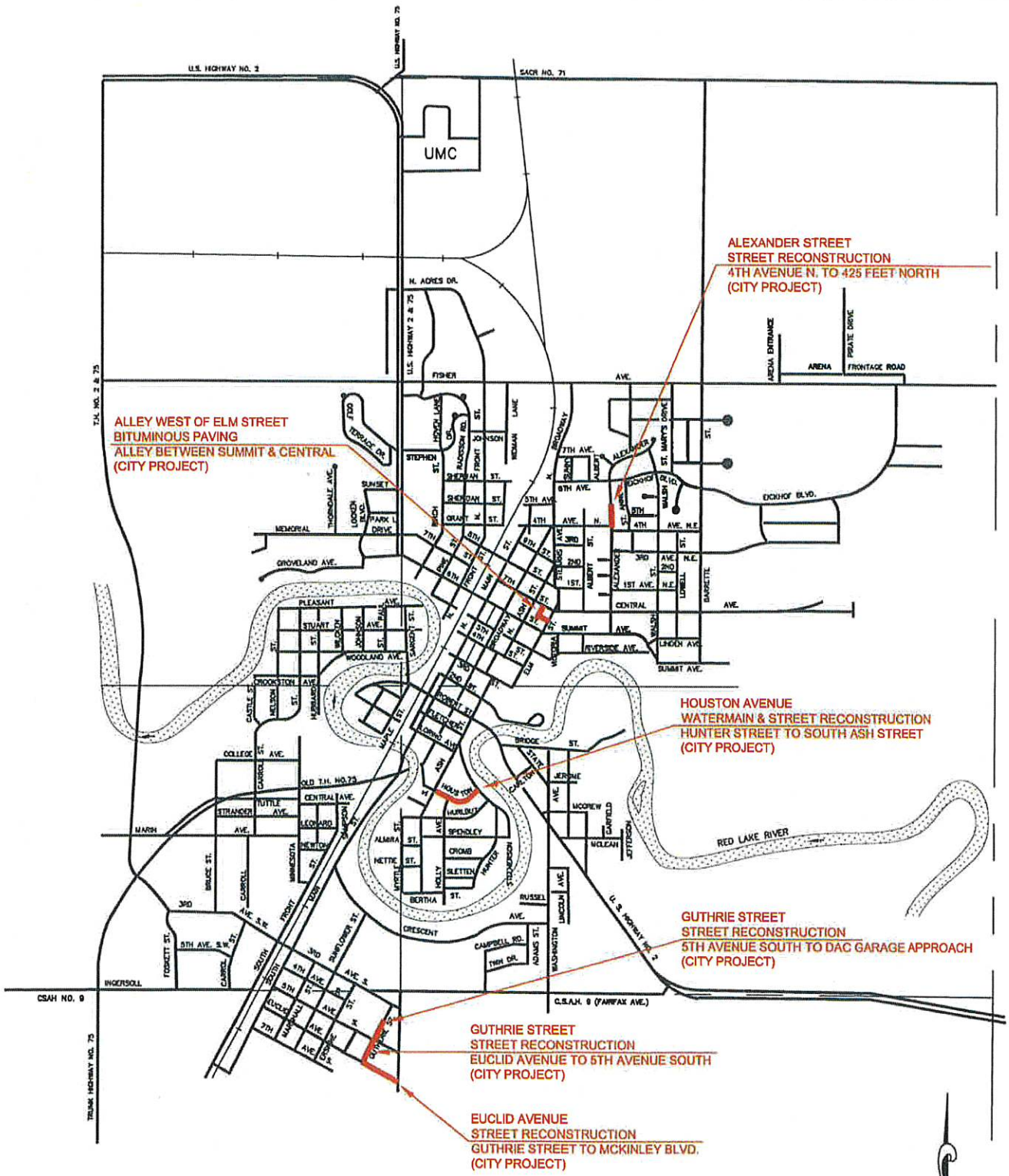
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	GUTHRIE STREET (EUCLID AVENUE TO 5TH STREET SOUTH) STREET RECONSTRUCTION CITY PROJECT	
				QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00
2	REMOVE CURB AND GUTTER	LIN FT	$10.00	100	$1,000.00
3	REMOVE BITUMINOUS PAVEMENT	SQ YD	$6.00	80	$480.00
4	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	$15.00	30	$450.00
5	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	$4.00	40	$160.00
6	COMMON EXCAVATION (P)	CU YD	$15.00	1,050	$15,750.00
7	GEOTEXTILE FABRIC, TYPE V	SQ YD	$3.00	2,700	$8,100.00
8	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	1,350	$60,750.00
9	SAWED & SEALED JOINT	LIN FT	$10.00	400	$4,000.00
10	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	$3.00	75	$225.00
11	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	200.0	$24,000.00
12	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	$120.00	200.0	$24,000.00
13	4" PERFORATED PE PIPE DRAIN	LIN FT	$7.50	1,400	$10,500.00
14	CASTING ASSEMBLY (STORM SEWER)	EACH	$1,800.00	2	$3,600.00
15	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	$35.00	900	$31,500.00
16	6" CONCRETE DRIVEWAY PAVEMENT - REINFORCED	SQ YD	$115.00	80	$9,200.00
17	TRAFFIC CONTROL	LUMP SUM	$500.00	1.00	$500.00
18	STORM DRAIN INLET PROTECTION	EACH	$150.00	4	$600.00
19	EROSION CONTROL SUPERVISOR	LUMP SUM	$500.00	1.0	$500.00
20	BOULEVARD TOPSOIL BORROW (CV) (P)	CU. YD.	$35.00	30	$1,050.00
21	TURF ESTABLISHMENT	LUMP SUM	$2,000.00	1.0	$2,000.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$208,365.00**
	Estimated Engineering: (13% of Construction)				**$27,087.45**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$235,452.45**	

PRELIMINARY ENGINEER'S ESTIMATE
GUTHRIE STREET (5th to DAC) RECONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	GUTHRIE STREET (5TH AVENUE SOUTH TO DAC GARAGE APPROACH) STREET RECONSTRUCTION CITY PROJECT	
				QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00
2	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	$15.00	30	$450.00
3	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	$8.00	40	$320.00
4	COMMON EXCAVATION (P)	CU YD	$15.00	850	$12,750.00
5	GEOTEXTILE FABRIC, TYPE V	SQ YD	$3.00	1,300	$3,900.00
6	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	650	$29,250.00
7	SAWED & SEALED JOINT	LIN FT	$10.00	326	$3,260.00
8	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	$3.00	60	$180.00
9	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	160.0	$19,200.00
10	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	$120.00	160.0	$19,200.00
11	4" PERFORATED PE PIPE DRAIN	LIN FT	$7.50	650	$4,875.00
12	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	$35.00	650	$22,750.00
13	6" CONCRETE DRIVEWAY PAVEMENT - REINFORCED	SQ YD	$115.00	50	$5,750.00
14	TRAFFIC CONTROL	LUMP SUM	$500.00	1.00	$500.00
15	EROSION CONTROL SUPERVISOR	LUMP SUM	$500.00	1.0	$500.00
16	BOULEVARD TOPSOIL BORROW (CV) (P)	CU. YD.	$35.00	30	$1,050.00
17	TURF ESTABLISHMENT	LUMP SUM	$2,000.00	1.0	$2,000.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$135,925.00**
	Estimated Engineering: (13% of Construction)				**$17,670.25**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$153,595.25**	

PRELIMINARY ENGINEER'S ESTIMATE
ALLEY WEST OF ELM STREET RECONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ALLEY WEST OF ELM STREET (BETWEEN SUMMIT & CENTRAL AVENUE) STREET RECONSTRUCTION CITY PROJECT	
				QUANT.	COST
1	MOBILIZATION	LUMP SUM	$10,000.00	1.0000	$10,000.00
2	COMMON EXCAVATION (P)	CU YD	$15.00	200	$3,000.00
3	AGGREGATE BASE (CV) CLASS 5 MOD. 7%-10% (P)	CU YD	$45.00	120	$5,400.00
4	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	$120.00	120.0	$14,400.00
5	TRAFFIC CONTROL	LUMP SUM	$500.00	1.00	$500.00
6	TURF ESTABLISHMENT	LUMP SUM	$1,000.00	1.0	$1,000.00
	TOTAL ESTIMATED CONSTRUCTION COST				**$34,300.00**
	Estimated Engineering: (13% of Construction)				**$4,459.00**
	TOTAL PRELIMINARY ESTIMATED PROJECT COST			**$38,759.00**	



PROPOSED
2023 STREET IMPROVEMENTS
CROOKSTON, MINNESOTA

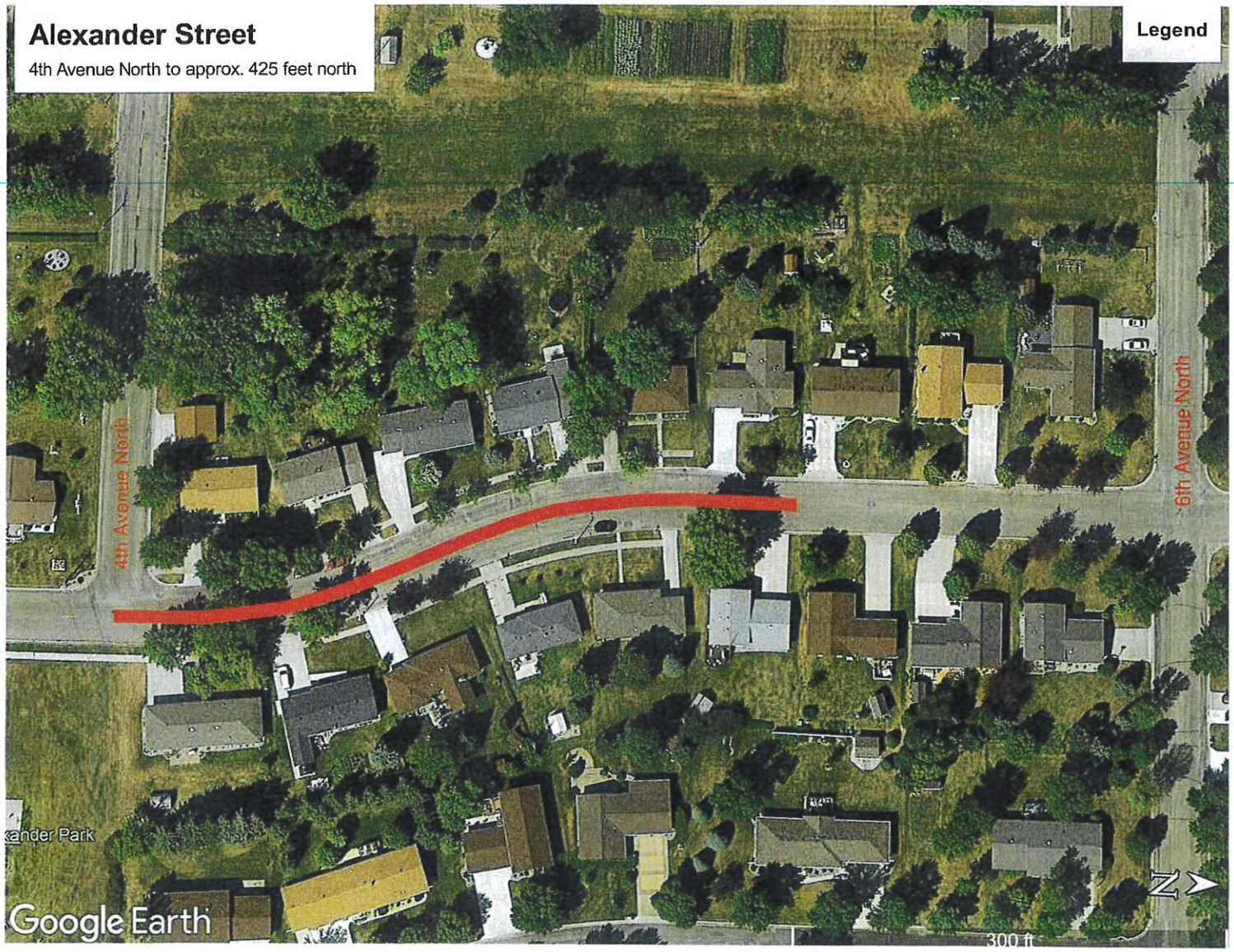
NO SCALE

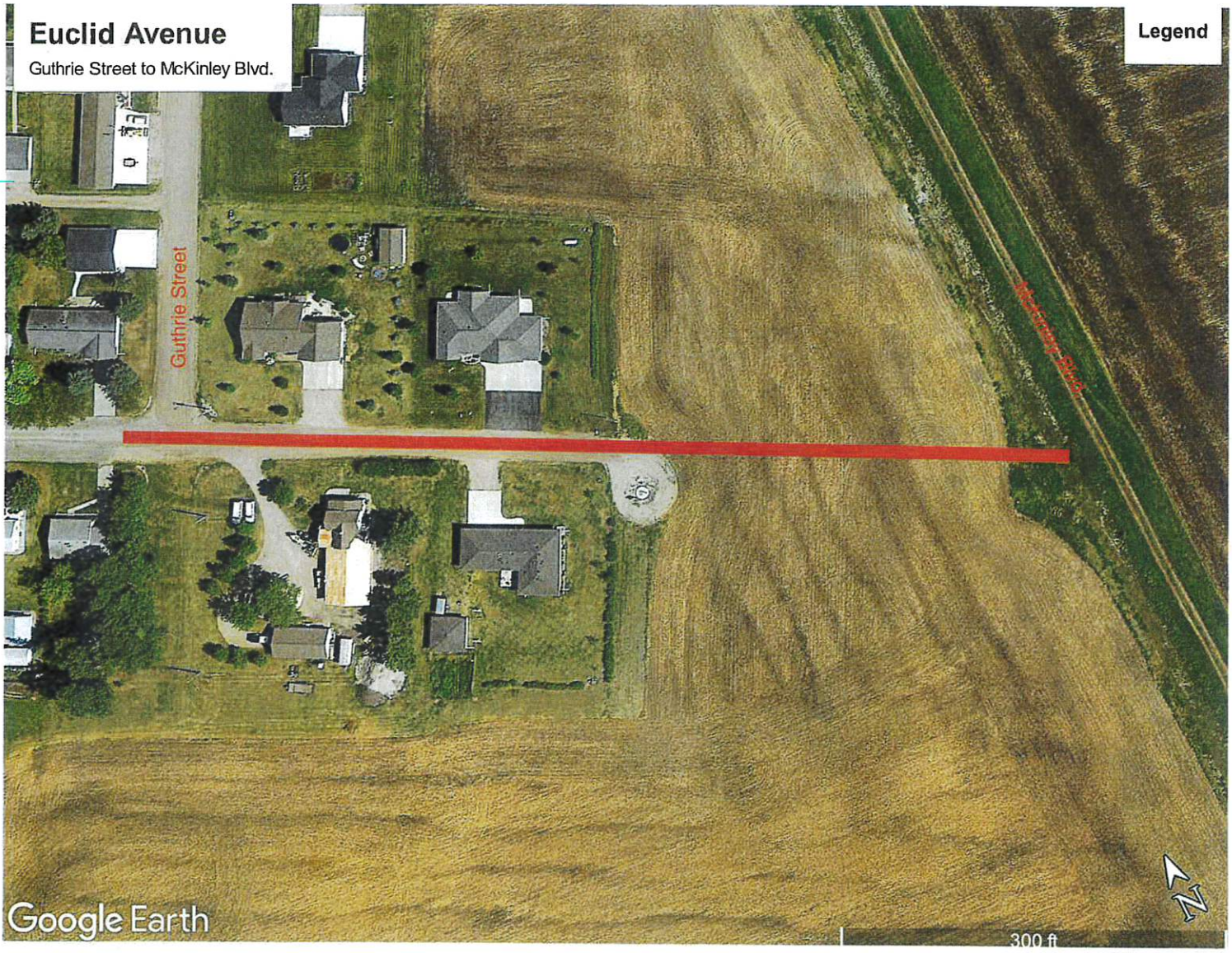
WiDSETH
ARCHITECTS ▪ ENGINEERS ▪ SCIENTISTS ▪ SURVEYORS


Houston Avenue
Hunter Street to South Ash Street
Legend
Hunter Street
South Ash Street
Holly Street
Google Earth
200 ft
N

Alexander Street

4th Avenue North to approx. 425 feet north




Euclid Avenue
Guthrie Street to McKinley Blvd.
Legend
Guthrie Street
McKinley Blvd
Google Earth
300 ft
N


Guthrie Street
Euclid Avenue to 5th Avenue South
Legend
Carman Playground
Euclid Avenue
5th Avenue South
Google Earth
300 ft


Guthrie Street
5th Avenue South to DAC Bus Garage Approach
Legend
Carman Playground
Euclid Avenue
5th Avenue South
DAC Garage
Google Earth
700 ft


Alley Off Elm Street between Summit Ave. & Central Ave.
Legend
Central Avenue
Elm Street
Google Earth
100 ft
N