



Request for Council Action

TO: Mayor and City Council
THROUGH: Tim Murray, City Administrator
FROM: Mark DuChene, City Engineer
MEETING DATE: September 11, 2018
SUBJECT: Resolution 2018-182 Receive/File Feasibility Report and Establish Public Hearing for 30th Street NW Improvements - Contract 2019-06

Background:

Attached is the feasibility report detailing the proposed 30th Street NW Improvements project (Contract 2019-06), located on the following streets:

30th Street NW - Cardinal Avenue to Industrial Drive

The proposed work includes removals, grading, aggregate base, watermain replacement, storm sewer, concrete curb and gutter, concrete pavement, concrete sidewalk, bituminous walkway, turf restoration, and related improvements. The primary focus of this project is the upgrade of the existing bituminous pavement to concrete pavement, similar to that installed west of Cardinal Avenue in 2014.

The preliminary total estimated cost of the improvements is \$1,750,000.00. Proposed funding for the project is as follows:

Special Assessments	\$116,000.00	6.6%
Federal Aid Funds	\$1,058,560.00	60.5%
Municipal State Aid Funds	\$470,440.00	26.9%
Water Utility Fund (601)	\$100,000.00	5.7%
<u>Sanitary Sewer Utility Fund (602)</u>	<u>\$5,000.00</u>	<u>0.3%</u>
Total	\$1,750,000.00	100.0%

The attached resolution also establishes a Public Hearing before the City Council for this project on October 9, 2018. Prior to the hearing, an informational meeting will be conducted with the abutting property owners to review the proposed improvements. It is tentatively planned to bid this project in January 2019, with construction to begin in

April/May 2019, and be substantially completed by the end of August 2019.

Recommendation:

Approve Resolution 2018-182

Attachments:

Resolution 2018-182

Feasibility Report

CITY OF FARIBAULT

RESOLUTION #2018-182

**RECEIVE/FILE FEASIBILITY REPORT AND ESTABLISH PUBLIC HEARING FOR 30TH
STREET NW IMPROVEMENTS - CONTRACT 2019-06**

WHEREAS, a report has been prepared by the City Engineering Department with reference to the 30th Street NW Improvements project (Contract 2019-06), by removals, grading, aggregate base, watermain replacement, storm sewer, concrete curb and gutter, concrete pavement, concrete sidewalk, bituminous walkway, turf restoration, and related improvements on the following streets:

30th Street NW - Cardinal Avenue to Industrial Drive

and it is proposed to assess the benefited property for all or a portion of the cost of the improvements, pursuant to Minnesota Statutes, Chapter 429, and this report was received by the Council on September 11, 2018.

NOW, THEREFORE BE IT RESOLVED, that the Council will consider the 30th Street NW Improvements project (Contract 2019-06) by removals, grading, aggregate base, concrete curb and gutter, bituminous surfacing, sanitary sewer and services, sanitary sewer lift station and forcemain, watermain and services, storm sewer, concrete driveway pavement, turf restoration, and related improvements on the following streets:

30th Street NW - Cardinal Avenue to Industrial Drive

in accordance with the feasibility report and the assessment of abutting property for all or a portion of the cost of the improvement pursuant to Mn. Statutes Chapter 429.

ALSO, BE IT RESOLVED, a public hearing shall be held on such proposed improvements on the 9th day of October, 2018 in the Council Chambers of the City Hall at 6:00 p.m. and the Administrator shall give mailed and published notice of such hearing of improvements as required by law.

Date Adopted: September 11, 2018

Faribault City Council

Kevin F. Voracek, Mayor

ATTEST:

Timothy C. Murray, City Administrator

30TH STREET NW IMPROVEMENTS

FEASIBILITY REPORT

Contract 2019-06 / S.P. 125-135-007/STP 6619()

Project Location

30th Street NW – Cardinal Avenue to Industrial Drive



Figure 1

Project Initiation

The proposed improvements were included in the 2018 Capital Improvements Program (CIP) as well as the adopted 2018 Annual Budget but due to a staff change at the City Engineer position and other unanticipated workload changes such as the CSAH 76 Utility Extension project, this project was delayed to 2019 construction. The Project is included in the proposed 2019 CIP and draft 2019 budget. The project was formally initiated upon the passage of Resolution 2017-252 by the City Council on November 28, 2017, which also ordered the preparation of this report. As this is a non-petitioned improvement project proposing to levy special assessments, an 80% majority (6/7) vote of the City Council will be required to order the improvements.

Project Scope

Part 1: Cardinal Avenue to County Road 76 (Park Avenue NW)

Street Improvements: The current right-of-way (ROW) width for this portion of 30th Street NW is 66 feet, with a constructed roadway width of 44 feet (face-to-face), concrete curb and gutter, and bituminous surfacing. The road was constructed (new) in 1995. As this road serves as the primary access into the Northern Industrial Park from T.H. 21, it does see a relatively high volume of truck traffic.

Given the past as well as projected growth in traffic volumes on this roadway (including the high truck traffic), the construction of concrete pavement is being recommended for this project. Traffic volumes have increased an average of 6.5% per year from 2001 to 2016 (2900 to 7500 vehicles per day).

The proposed street improvements include the removal of the bituminous pavement (leaving the majority of the aggregate base in place), removal of the concrete curb and gutter in that portion where the watermain is being replaced, new concrete curb and gutter construction, construction of a 10-ton rated concrete pavement section, pavement markings/signage, landscaping replacements, and turf restoration. The intersection of 30th Street NW and Park Avenue is also proposed to be reconstructed to remove the island and construct a more traditional three-legged intersection as shown below in Figure 2. With the expansion of the northern industrial park to the north on Park Avenue (CSAH 76), this will help facilitate the primary traffic circulation which is the 30th Street NW/Park Avenue traffic and remove confusion and make the intersection of 30th Street NW and Park Avenue safer. A small portion of permanent right-of-way will be required from the property at 1506 30th Street NW (ABC Bus, Inc.) to facilitate the intersection realignment. The property needed is within an existing pipeline easement area.

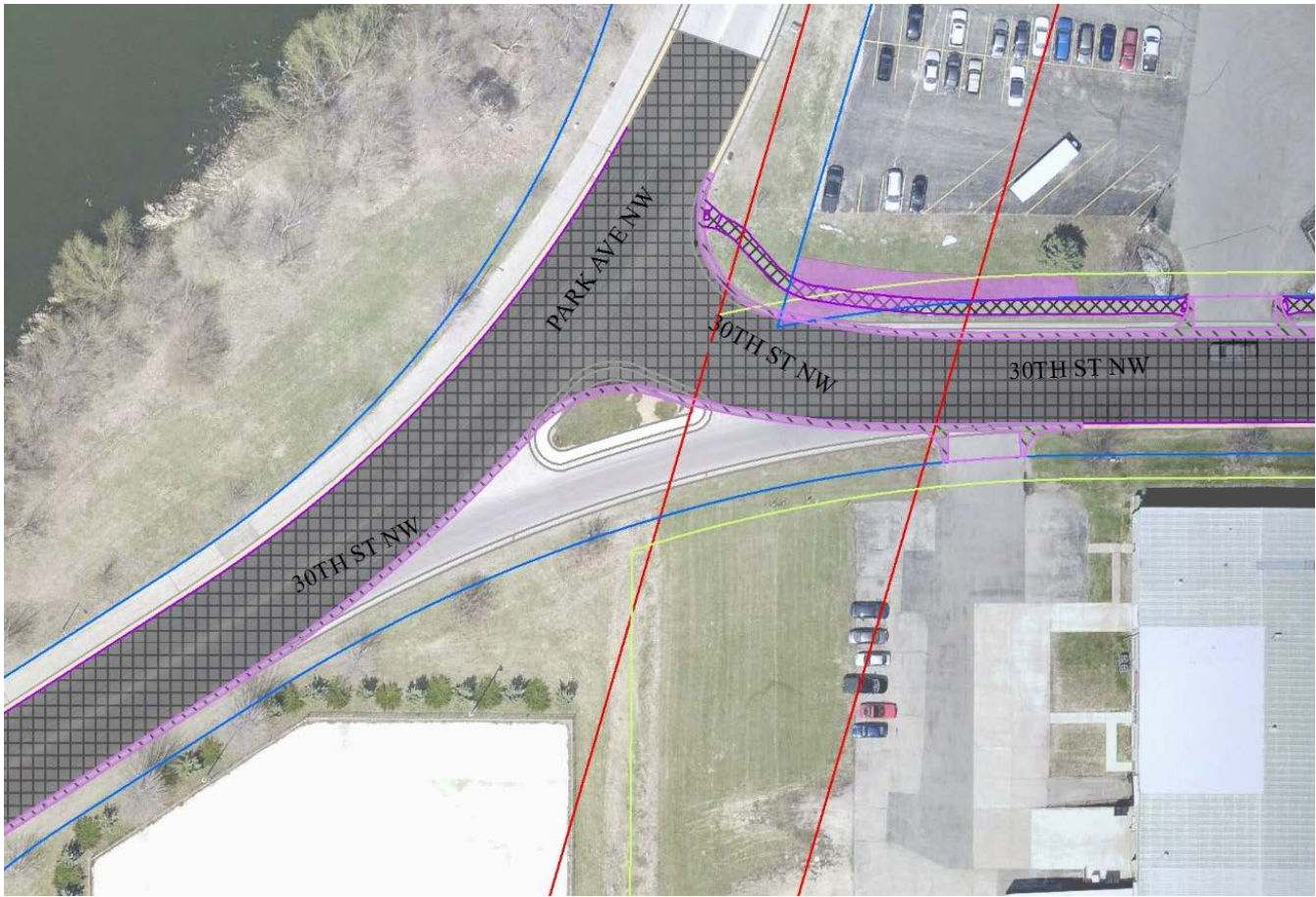


Figure 2

Sanitary Sewer: The properties in this area are all served with municipal sanitary sewer, and no additional properties are needed to be served. As such, no sanitary sewer work is included in this portion of the project.

Watermain: As with sanitary sewer, all the properties in this area currently have access to municipal watermain. However, as part of a future looping connection, it is proposed to replace the 8-inch watermain along the south side of 30th Street NW from Park Avenue to the east to the Industrial Drive intersection with 12-inch watermain.

Storm Sewer: There is existing storm sewer in place from Cardinal Avenue to Park Avenue that is adequate for handling drainage from 30th Street NW from Cardinal Lane to the east. There is also existing storm sewer in place at the intersection of 30th Street NW and Park Avenue. This storm sewer will be modified as necessary due to the intersection realignment.

Sidewalks/Trails: There is no existing sidewalk along this portion of 30th Street NW, however, there is a continuous bituminous walkway and concrete sidewalk along 30th Street NW beginning at T.H. 21/Lyndale Avenue going to the east to Cardinal Avenue. There are also segments of a bituminous trail and a concrete sidewalk on the north side of 30th Street NW to the east of this project, one by Park Avenue NW and the other by 8th Avenue NW (on the north side of the Copaco subdivision). It is proposed to install a 6-foot wide concrete sidewalk along the north side of 30th Street NW from Cardinal Avenue to Park Avenue where it will connect with the bituminous trail, as another step towards a longer term objective of having a continuous sidewalk/walkway along 30th Street NW from T.H. 21/Lyndale Ave. to T.H. 3/2nd Avenue

NW (see Figure 3 below showing long term system). It is proposed to acquire sidewalk easements from the property owners on the north side of 30th Street where the new sidewalk is proposed in order to maintain a 6-foot boulevard between the sidewalk and the roadway curb.

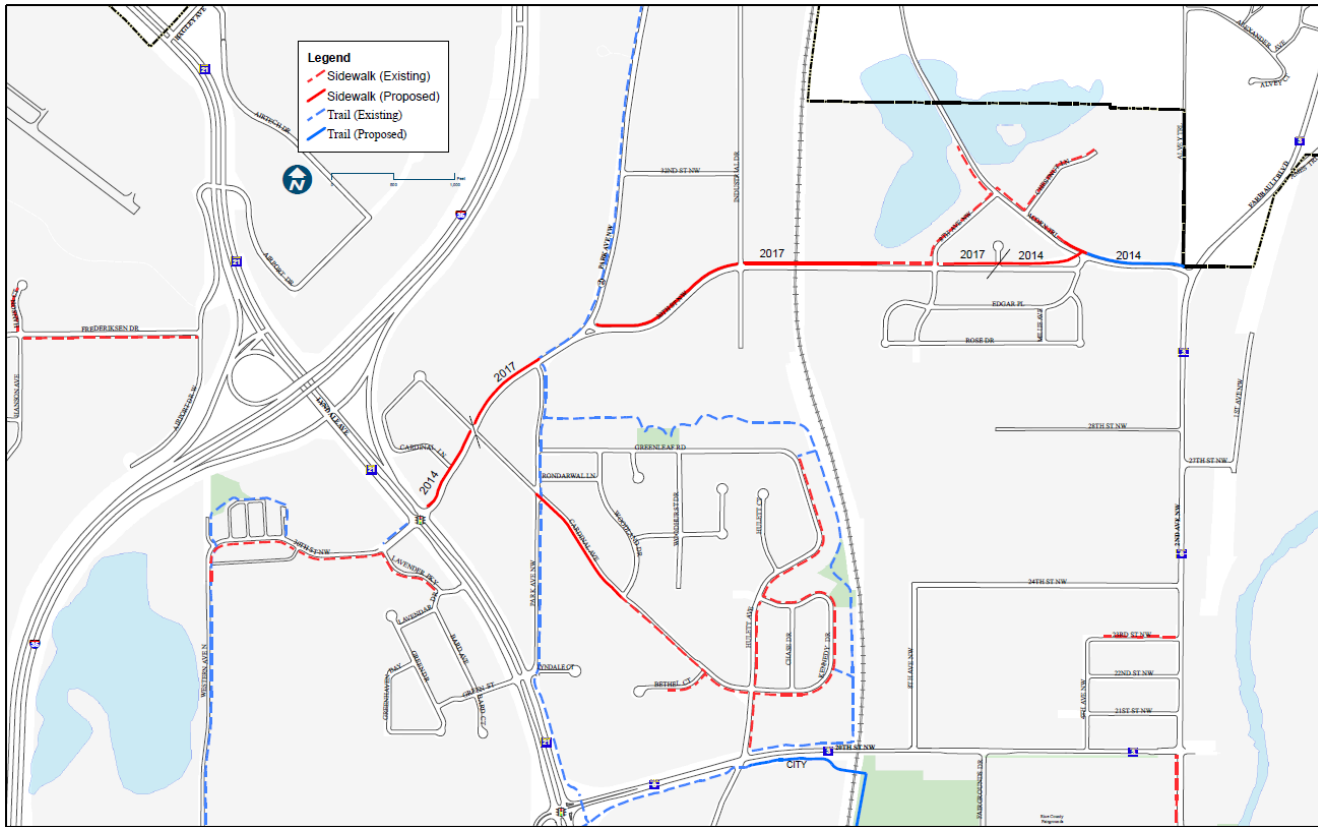


Figure 3

Part 2: County Road 76 (Park Avenue NW) to Industrial Drive

Street Improvements: The current right-of-way (ROW) width for this portion of 30th Street NW is 66 feet, with a constructed roadway width of 44 feet (face-to-face), concrete curb and gutter, and bituminous surfacing. The road was reconstructed (new) in 1996. As this road provides access to the Northern Industrial Park from the east and west, there is a significant amount of truck traffic that uses the roadway, so a concrete pavement is again preferred.

The proposed street improvements include the removal of the bituminous pavement (leaving the majority of the aggregate base in place), removal of the concrete curb and gutter in that portion where the watermain is being replaced, new concrete curb and gutter construction, construction of a 10-ton rated concrete pavement section, pavement markings/signage, landscaping replacements, and turf restoration. The roadway will also be narrowed from a 44 feet (face-to-face) to a 40 feet (face-to-face) by moving the north curblines south towards the centerline of the road since this curb needs to be removed due to the watermain replacement. There is little to no need for on street parking in this area and a 40 foot wide road still meets the standards for allowing on street parking but reduces current and long term road maintenance costs.

Sanitary Sewer: The properties in this area are all served with municipal sanitary sewer, and no

additional properties are needed to be served. As such, no sanitary sewer work is included in this portion of the project.

Watermain: As with sanitary sewer, all the properties in this area currently have access to municipal watermain. However, as part of a future looping connection, it is proposed to replace the 8-inch watermain within 30th Street NW from Park Avenue to the east to the Industrial Drive intersection with 12-inch watermain.

Storm Sewer: There is existing storm sewer in place from Park Avenue to Industrial Drive that is adequate for handling drainage from 30th Street NW. There is also existing storm sewer in place at the intersection of 30th Street NW and Park Avenue. This storm sewer will be modified as necessary due to the intersection realignment.

Sidewalks: As shown in Figure 3 of this report, it is proposed to construct a new concrete sidewalk (6 feet wide) along the north side of 30th Street NW between CSAH 76 (Park Avenue NW) and Industrial Drive.

Project Financing

The estimated cost of the improvements is \$1,652,400 (a copy of the preliminary estimate is attached). Funding for the work will come from special assessments, federal and state aid funds, and the water (601), sanitary sewer (602), and storm sewer (603) utility funds.

Some unique circumstances exist with this project, which results in the following methodology being proposed for the application of special assessments for these improvements. The age of the roadway and its condition would typically have resulted in a mill and overlay being recommended as a reasonable improvement. However, given the combination of the traffic conditions and the availability of federal funds to be used for this project, a modified reconstruction project is being proposed, upgrading the bituminous pavement to concrete. Given these factors, it is proposed to levy roadway assessments at the rate for an overlay project to the abutting properties, along with assessments for the proposed new sidewalk construction along the north side of 30th Street NW, with applicable credits per the City's special assessment policy.

Assessment rates for 2018 were established by Resolution 2016-248, adopted on November 9, 2016. The proposed preliminary special assessment roll was calculated using 2018 rates as 2019 rates have not been set yet so assessment rates may change.

Per City policy, properties on both sides of the street are assessed for new sidewalks installed on one side of that street. A copy of the preliminary Special Assessment Roll is attached to this report.

A breakdown of the estimated financing for this project including engineer, right-of-way and administration is as follows:

Special Assessments	\$116,000.00	6.6%
Federal Aid Funds	\$1,058,560.00	60.5%
Municipal State Aid Funds	\$470,440.00	26.9%
Water Utility Fund (601)	\$100,000.00	5.7%
Sanitary Sewer Utility Fund (602)	\$5,000.00	0.3%
Total	\$1,750,000.00	100.0%

Project Feasibility

The improvements proposed as part of this project do not appear to present any significant design or construction issues. The assessments on this project are proposed to be applied in accordance with the methodology outlined in this report, at the rates established by the City Council for 2019 improvements. Additional funding sources available to the City and proposed to be used include Federal Aid funds, Municipal State Aid funds, and the Sewer and Water funds (601 and 602) as outlined in the previous section.

There are a couple of primary challenges on the delivery of this project. The first is the need to acquire additional right-of-way easements for the 30th Street NW and Park Avenue intersection realignment and the sidewalk construction from Cardinal Avenue to Park Avenue. While securing these easements is not viewed as difficult or controversial, these are still not in hand at the time of this report. The second challenge is the maintenance of traffic in and out of the area at all times during the construction. This will require detailed phasing of the construction work to be incorporated into the final plans and specifications.

Based upon the information presented in this report, the City Council is hereby advised that the proposed improvements are necessary, cost-effective and feasible, and should be made as recommended in this report.

Project Schedule

If ordered, a proposed project schedule is as follows:

Initiate Project Order Feasibility Report	November 28, 2017
Receive/File Feasibility Report Establish Public Hearing	September 11, 2018
Informational Meeting	September 19, 2018
Conduct Public Hearing Order Improvements Order Preparation of Plans and Specifications	October 9, 2018
Approve Plans and Specifications Establish Bid Date	December 22, 2018
Bid Opening Date	January 17, 2019
Receive Bids Award Contract	January 22, 2018
Begin Construction	April/May, 2019
Substantial Completion	August 31, 2019
Declare Cost to be Assessed	

Establish Special Assessment Hearing	September 10, 2019
Final Completion	September 13, 2019
Conduct Special Assessment Hearing	
Adopt Special Assessments	October 8, 2019
Final Completion	September 13, 2019

Prepared By: Mark W DuChene, City Engineer
Dated: September 7, 2018

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.



Mark W DuChene, P.E.

Reg. No. 46594

09/07/2018

Date

City of Faribault

30th Street NW Reconstruction - Preliminary Cost Estimate

Project Number: SP 125-135-007 Contract Number: 2019-06

Part 1 30th Street N.W. (SP 125-135-007) Cardinal Avenue to Industrial Drive: Schedule A: Participating - Roadway						
Line Number	Item Number	Description	Units	Contract Quantity	Unit Price	Total Price
1	2021.501	MOBILIZATION	LUMP SUM	0.92	\$25,000.00	\$23,000.00
2	2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	0.92	\$100.00	\$92.00
3	2101.524	CLEARING	TREE	20	\$500.00	\$10,000.00
4	2101.524	GRUBBING	TREE	20	\$500.00	\$10,000.00
60	2104.502	REMOVE DELINEATOR / MARKER SIGN	EACH	1	\$25.00	\$25.00
8	2104.502	REMOVE SIGN TYPE C	EACH	9	\$50.00	\$450.00
9	2104.502	REMOVE SIGN TYPE D	EACH	6	\$50.00	\$300.00
61	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	150	\$10.00	\$1,500.00
10	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	3,500.00	\$5.00	\$17,500.00
56	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	38	\$3.00	\$114.00
5	2104.503	REMOVE CURB & GUTTER	LIN FT	1,800.00	\$3.00	\$5,400.00
58	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	60	\$7.00	\$420.00
6	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	240	\$5.00	\$1,200.00
7	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	13,100.00	\$2.00	\$26,200.00
11	2105.507	COMMON EXCAVATION (P)	CU YD	6,255.00	\$15.00	\$93,825.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	300	\$10.00	\$3,000.00
13	2105.507	SELECT GRANULAR BORROW (CV)	CU YD	300	\$20.00	\$6,000.00
15	2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	2,180.00	\$30.00	\$65,400.00
17	2301.502	DOWEL BAR	EACH	8,500.00	\$9.00	\$76,500.00
16	2301.504	CONCRETE PAVEMENT 8.5"	SQ YD	11,600.00	\$65.00	\$754,000.00
66	2301.504	CONCRETE DRIVEWAY PAVEMENT 8"	SQ YD	60	\$44.00	\$2,640.00
18	2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	800	\$15.00	\$12,000.00
19	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	150	\$1.00	\$150.00
21	2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (4;C)	TON	100	\$110.00	\$11,000.00
20	2360.509	TYPE SP 12.5 WEARING COURSE MIX (4;E)	TON	100	\$120.00	\$12,000.00
22	2506.502	ADJUST FRAME & RING CASTING	EACH	6	\$300.00	\$1,800.00
23	2521.518	5" CONCRETE WALK	SQ FT	12,300.00	\$7.00	\$86,100.00
67	2521.518	2.5" CONCRETE WALK	SQ FT	260	\$1.50	\$390.00
24	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	1,800.00	\$35.00	\$63,000.00
25	2531.604	CONCRETE MEDIAN (DES SPECIAL) (COLORED AND STAMPED)	SQ YD	40	\$100.00	\$4,000.00
26	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	208	\$60.00	\$12,480.00
27	2531.618	TRUNCATED DOMES	SQ FT	124	\$40.00	\$4,960.00
41	2563.601	TRAFFIC CONTROL	LUMP SUM	0.92	\$20,000.00	\$18,400.00
50	2564.502	DELINEATOR TYPE X4-13	EACH	10	\$65.00	\$650.00
51	2564.502	OBJECT MARKER TYPE X4-2	EACH	10	\$65.00	\$650.00
28	2564.618	SIGN TYPE C	SQ FT	80	\$35.00	\$2,800.00
29	2564.618	SIGN TYPE D	SQ FT	20	\$21.00	\$420.00
30	2571.524	DECIDUOUS TREE 10' HT B&B	TREE	20	\$500.00	\$10,000.00
65	2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	4	\$500.00	\$2,000.00
32	2573.502	STORM DRAIN INLET PROTECTION	EACH	18	\$250.00	\$4,500.00
31	2573.503	SILT FENCE; TYPE MS	LIN FT	270	\$5.00	\$1,350.00
14	2574.507	BOULEVARD TOPSOIL BORROW	CU YD	300	\$24.00	\$7,200.00
33	2575.504	SODDING TYPE LAWN	SQ YD	2,180.00	\$8.00	\$17,440.00
34	2582.503	4" SOLID LINE MULTI COMP	LIN FT	6,000.00	\$3.00	\$18,000.00
53	2582.503	12" SOLID LINE MULTI COMP	LIN FT	20	\$18.00	\$360.00
35	2582.503	4" DBLE SOLID LINE MULTI COMP	LIN FT	2,675.00	\$5.00	\$13,375.00
52	2582.518	PAVT MSSG PREF TAPE GR IN	SQ FT	2	\$500.00	\$1,000.00
36	2582.518	CROSSWALK PREF TAPE GR IN	SQ FT	288	\$13.50	\$3,888.00
Subtotal Part 1						\$1,407,479.00

Part 2 30th Street N.W. (SP 125-135-007) Cardinal Avenue to Industrial Drive: Schedule B: Participating Storm Sewer						
Line Number	Item Number	Description	Units	Contract Quantity	Unit Price	Total Price
37	2021.501	MOBILIZATION	LUMP SUM	0.01	\$25,000.00	\$250.00
38	2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	0.01	\$100.00	\$1.00
59	2104.502	REMOVE DRAINAGE STRUCTURE	EACH	3	\$500.00	\$1,500.00
39	2503.503	12" RC PIPE SEWER CLASS V	LIN FT	10	\$50.00	\$500.00
54	2503.503	15" RC PIPE SEWER CLASS V	LIN FT	10	\$65.00	\$650.00
55	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	3	\$1,000.00	\$3,000.00
40	2506.502	CONST DRAINAGE STRUCTURE DESIGN H	EACH	3	\$3,500.00	\$10,500.00
64	2563.601	TRAFFIC CONTROL	LUMP SUM	0.01	\$20,000.00	\$200.00
Subtotal Part 2						\$16,601.00

Part 3 30th Street N.W. (SP 125-135-007) Cardinal Avenue to Industrial Drive: Schedule C: Non-Participating - Watermain						
Line Number	Item Number	Description	Units	Contract Quantity	Unit Price	Total Price
42	2021.501	MOBILIZATION	LUMP SUM	0.07	\$25,000.00	\$1,750.00
43	2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	0.07	\$100.00	\$7.00
57	2104.603	REMOVE WATER MAIN	LIN FT	1,200.00	\$10.00	\$12,000.00
44	2504.602	CONNECT TO EXISTING WATERMAIN	EACH	2	\$750.00	\$1,500.00
62	2504.602	RELOCATE HYDRANT & VALVE	EACH	2	\$1,000.00	\$2,000.00
63	2504.602	ADJUST GATE VALVE & BOX	EACH	4	\$300.00	\$1,200.00
46	2504.602	8" GATE VALVE AND BOX	EACH	3	\$2,200.00	\$6,600.00
45	2504.602	INSTALL HYDRANT W/ LEAD AND VALVE	EACH	2	\$3,500.00	\$7,000.00
47	2504.603	8" PVC C-900 DR-18 WATERMAIN	LIN FT	1,200.00	\$50.00	\$60,000.00
48	2504.608	DUCTILE IRON FITTINGS	POUND	500	\$6.00	\$3,000.00
49	2563.601	TRAFFIC CONTROL	LUMP SUM	0.07	\$20,000.00	\$1,400.00
Subtotal Part 3						\$96,457.00

Total Estimated Construction	\$1,520,537.00
Engineering/ROW/Admin (15%)	\$228,080.55
Total Cost	\$1,748,617.55