## Falcon Avenue and Ginger Avenue Improvements

City of Harris Chisago County, Minnesota May 2022

Prepared by:

MSA Professional Services 60 Plato Boulevard #140 St. Paul, MN 55107 www.msa-ps.com

Project No. 09520023



## Falcon Avenue and Ginger Avenue Improvements

City of Harris, Minnesota

SUBMITTAL CERTIFICATION

I hereby certify that this plan, specification, or 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.

Print Name: Charles Schwartz, P.E.

Signature:

Date: April 5, 2022

License #: 25765

### TABLE OF CONTENTS

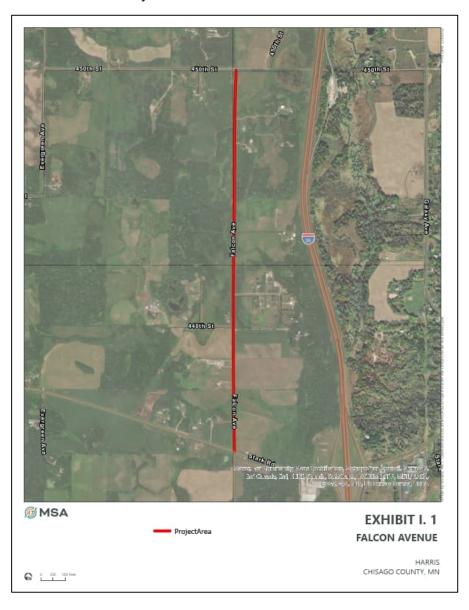
|                              |  | <u>PAGE</u> |
|------------------------------|--|-------------|
| l.                           | INTRODUCTION   | 1           |
| II.                          | PURPOSE  | 2           |
| III.                         | EXISTING CONDITIONS                                      |             |
| IV.                          | PROPOSED IMPROVEMENTS – FALCON AVENUE                    | 4           |
| V.                           | PROPOSED IMPROVEMENTS – GINGER AVENUE                    | 5           |
| VI.                          | RIGHT-OF-WAY, EASEMENTS AND PERMITS                      | 5           |
| VII.                         | INFORMATIONAL MEETINGS                                   |             |
| VIII.                        | RECOMMENDED IMPROVEMENT OPTIONS                          | 5           |
| IX.                          | FINANCING AND ASSESSMENTS – FALCON AVENUE                | 6           |
| Χ.                           | FINANCING AND ASSESSMENTS – GINGER AVENUE                | 6           |
| XI.                          | NECESSITY AND COST-EFFECTIVENESS                         | 7           |
| XII.                         | PROJECT SCHEDULE   | 7           |
| XIII.                        | CONCLUSION & RECOMMENDATION                              | 7           |
|                              | LIST OF TABLES   |             |
| Tahle VII                    | 1: Estimate of Project Costs                             | 6           |
|                              | Estimate of Probable Costs – Falcon Avenue               |             |
|                              | Estimate of Probable Costs – Ginger Avenue               |             |
| Tubic 71.2.                  | - Estimate of Frobable costs - Offiger Mende             | препах      |
|                              | LIST OF EXHIBITS   |             |
| Exhibit I.1                  | : Falcon Avenue Project Area                             |             |
|                              | : Ginger Avenue Project Area                             |             |
|                              | 1: Typical Section                                       |             |
| Exhibit A.2                  | 2N: Falcon Avenue North Assessment Area & Parcel Numbers | Appendix    |
| Exhibit A.2                  | 2S: Falcon Avenue South Assessment Area & Parcel Numbers | Appendix    |
| Exhibit A.:                  | 3: Ginger Avenue Assessment Area & Parcel Numbers        | Appendix    |
|                              |  |             |
| Exhibit A.4: Assessment Role |  |             |

Project No. 9520013 Page i

#### I. INTRODUCTION

On January 10, 2022, the City Council unanimously authorized this Falcon Avenue and Ginger Avenue Feasibility Study. The study is necessary to assess whether improvements should be made to the roadway and determine estimated costs of the improvements as recommended. The road improvements on Falcon Avenue will begin at the intersection of Stark Road and Falcon Avenue. The project will extend north up Falcon Avenue approximately 1.5 miles until it reaches 450<sup>th</sup> Street. The road improvements on Ginger Avenue will begin at the intersection of 425th Street and Ginger Avenue. The project will extend north up Ginger Avenue approximately 0.5 miles until it reaches 430<sup>th</sup> Street.

Exhibit I.1 – Falcon Avenue Project Area



**MSA EXHIBIT I. 2** ProjectArea GINGER AVENUE CHISAGO COUNTY, MN

Exhibit I.2 – Ginger Avenue Project Area

#### II. **PURPOSE**

The purpose of this study is to analyze the necessity, possible alternatives, and cost effectiveness of the proposed street improvements. The study discusses the existing conditions, proposed improvements, estimated construction costs, and financing sources necessary to complete the proposed work.

Project No. 9520023 Page 2 © May 2022 MSA Professional Services, Inc.

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#### Ш. **EXISTING CONDITIONS**

The existing conditions of the roadway were evaluated to determine current system capacity and areas of concern. As part of the project scope, a site visit and review of available information of the project area was completed. Below is a summary of the information collected on the conditions, separated into the project groupings.

#### SOILS/BEDROCK

According to the Natural Resources Conservation Service (NRCS) database, the underlying soils at Falcon Avenue can generally be described as:

- Zimmerman fine sand, 1 to 12% slopes, hydrologic soil group A. Group A soils typically have a high infiltration rate (low runoff potential) when thoroughly wetted.
- Isanti loamy fine sand, hydrologic soil group A/D. Group D soils typically have a very slow infiltration rate (high runoff potential) when thoroughly wetted. These soils have a very slow rate of water transmission.
- Lino loamy fine sand, hydrologic soil group A/D.
- Braham loamy fine sand, 2 to 12% slopes, hydrologic soil group B. Group B soils have a moderate infiltration rate when thoroughly wetted.
- Sartell fine sand, 1 to 6% slopes, hydrologic soil group A.
- Seelyeville muck, hydrologic soil group A/D.
- Markey muck, hydrologic soil group A/D.
- Cathro muck, hydrologic soil group B/D.
- Blomford loamy sand, lacustrine substratum, hydrologic soil group B/D.
- Kratka loamy fine sand, thick solum, hydrologic soil group B/D.

On February 23, 2022, Falcon Avenue soil borings were completed by Independent Testing Technologies (ITT). Their findings were presented in a March 14, 2022 report. Below the aggregate, boring SB-5 encountered silty sand (SM) fill to 2.5 feet, followed by native, poorly graded sand with silt (SP-SM) to 5.0 feet, poorly graded sand (SP) to 13.0 feet and then sandy lean clay (CL) to termination at 14.9 feet. Boring SB-6 encountered clayey sand (SC) fill to 4.0 feet, followed by black silty sand (SM) to 8.5 feet, poorly graded sand with silt (SP-SM) to 11.0 feet and then poorly graded sand (SP) to termination at 14.9 feet. Boring SB-7 encountered silty sand (SM) fill to 2.5 feet, followed by native, silty sand (SM) to 8.0 feet and then poorly graded sand (SP) to termination at 14.9 feet. Groundwater was encountered in all three borings at depths of 7.5 to 14.0 feet during drilling.

According to the Natural Resources Conservation Service (NRCS) database, the underlying soils at Ginger Avenue can generally be described as:

- Zimmerman fine sand, 1 to 12% slopes, hydrologic soil group A. Group A soils typically have a high infiltration rate (low runoff potential) when thoroughly wetted.
- Sartell fine sand, 6 to 12% slopes, hydrologic soil group A

Project No. 9520023 Page 3 © May 2022 MSA Professional Services, Inc.

No soil borings were completed on Ginger Avenue.

#### **TRAFFIC**

Falcon Avenue is a low volume local road, providing access to residential households located along the project route as well as access to the gun club. Ginger Avenue is a low volume local road, providing access to residential households located along the project route. At this time, average daily traffic (ADT) for either road have not been accessed by the City or MnDOT.

#### **EXISTING ROADWAY**

Falcon Avenue is a rural roadway (no curb and gutter). It is approximately 30 ft wide throughout its entire length. According to the Chisago County GIS Map, the right-of-way width is 66-feet along the Falcon Avenue corridor. The driving surface throughout the project area is gravel. Falcon Avenue consists of a gravel surface mixed with underlying sand sub-base. According to the soil borings, the aggregate thickness varied between 12 – 18 inches.

It has been the observation of the City of Harris that Falcon Avenue exhibits reasonable strength and therefore the roadway sub-base should not require substantial strengthening before paving the surface. The City will assess the need for additional gravel prior to paving and possibly add gravel as necessary as part of their normal street maintenance practice for gravel roads. For the purpose of this report, no additional gravel is included in the project scope. The surface and shoulder width of Falcon Avenue appear wide enough to install 24-foot wide pavement in accordance with the City's standard street section.

Ginger Avenue is a rural roadway (no curb and gutter). It is approximately 23 ft wide throughout its entire length. It was originally paved in the early 2000s and is believed to be 1.5 to 2-inches thick. According to the Chisago County GIS Map, the right-of-way width is 66-feet along the Ginger Avenue corridor. The driving surface throughout the project area is bituminous pavement.

#### IV. PROPOSED IMPROVEMENTS – FALCON AVENUE

A "shape and pave" project typically includes adding aggregate base course (gravel) as needed, shaping of the crown of the roadway, minor ditch grading to facilitate drainage, and paving the surface of the roadway. Exhibit A.1 depicts the typical cross section recommended for this project.

Falcon Avenue is ideally suited for the shape and pave improvement project. We propose that these roadways be improved to best fit the existing roadway embankment to minimize expenses.

Falcon Avenue has an assumed typical thickness of 14 inches of gravel. The improvement includes shaping of the crown of the roadway before placing the 3.5-inch mat of Hot Mix Asphalt. The improvements will be within the permitted right-of-way; primarily contained within the existing roadway as traveled and the shoulder area. No minor grading of ditches to accommodate the desired width of the roadways is included in the project scope.

In keeping with the City of Harris design standards, the return radii at intersections will be a minimum of 30 feet for collector roads. The bituminous mat will be extended out at mailboxes and driveways. These extensions will be implemented to strengthen the shoulder and prevent the edge of bituminous pavement mat from breaking off or raveling. Widening the edge of the bituminous mat at driveways also protects the pavement of the driving lane. Where driveways are paved and extended close to the edge of the traveled way, the bituminous pavement will be extended to meet the existing driveway pavement.

We recommend the City contract for final preparation of the aggregate base course as well as the placement of the bituminous payement. It is assumed that the City would complete any necessary drainage improvements and final restoration. With small projects, the City would pay a premium for the mobilization of different crews to accomplish these tasks. The increased costs on a small project drive the costs to a point that they would not be sustainable.

#### V. PROPOSED IMPROVEMENTS – GINGER AVENUE

The City's assessment policy details a standard practice for new construction. Under this definition, streets are assessed 100% to the abutting benefited properties. Improvements include the installation of the 1.5 inches wearing course to complete this unfinished road. For this project, driveways and intersection points will be milled and the overlay will be crowned to ensure adequate drainage.

We recommend the City contract for placement of the bituminous pavement. It is assumed that the City would complete any necessary drainage improvements and final restoration. With small projects, the City would pay a premium for the mobilization of different crews to accomplish these tasks. The increased costs on a small project drive the costs to a point that they would not be sustainable.

#### RIGHT-OF-WAY, EASEMENTS AND PERMITS VI.

The Falcon Avenue and Ginger Avenue right-of-way is 66-feet wide. Both the proposed options will not exceed the current width of the right-of-way.

#### VII. INFORMATIONAL MEETINGS

City Staff has not yet held the neighborhood meeting to solicit public feedback for the proposed project. The City will conduct Improvement and Assessment Hearings in accordance with the MN 429 Special Assessment Statute as the improvements are to be assessed.

#### VIII. RECOMMENDED IMPROVEMENT OPTIONS

MSA Professional Services, Inc. (MSA) develops opinions of construction cost based on the complexity of the proposed project and the bid prices received on previous similar projects. The

Project No. 9520023 Page 5 © May 2022 MSA Professional Services, Inc.

volume of projects bidding, the cost of raw materials, the cost of fuels and other various factors can have a significant impact on the cost of construction.

In this case, we have bid prices other projects in nearby communities. This study assumes the overlay process can be completed at reasonably similar prices.

The estimated construction costs and associated overhead costs for the proposed improvements are summarized in Table VI.1 below. A detailed estimate considered can be found in the Appendix on Table A.1.

Table VII.1: Estimated Project Costs

| IMPROVEMENT AREA  | ESTIMATED PROJECT<br>COSTS |
|---|----------------------------|
| FALCON AVENUE IMPROVEMENTS (TOTAL)                              | \$465,000                  |
| FALCON AVENUE IMPROVEMENTS (LESS \$175,000 COUNTY CONTRIBUTION) | \$290,000                  |
| GINGER AVENUE IMPROVEMENTS                                      | \$70,300                   |

#### IX. FINANCING AND ASSESSMENTS – FALCON AVENUE

It is our recommendation the City assess total project costs less Chisago County's \$175,000 contribution. It is assumed the improvements as discussed in this report will be financed through the "adjusted front footage method" of assessment. To determine the adjusted front footage of each lot, the assessable cost is divided by the actual frontage benefiting from the improvement. Street construction projects are typically assessed over a 20-year period. Per City Assessment Manual, interest is assessed at 2% over the average interest rate of bonds rounded to the nearest 4 percent. Assessment range from \$6,325 – \$27,959 per parcel. Assuming an interest rate of 5% over a 20-year period, assessment for a 24-foot wide road equates to total annual cost of \$508 – \$2,244 depending upon each parcels front footage.

#### X. FINANCING AND ASSESSMENTS – GINGER AVENUE

It is assumed the Ginger Avenue improvements as discussed in this report will be financed through the "per lot method" of assessment. Street construction projects are typically assessed over a 20-year period. Per City Assessment Manual, interest is assessed at 2% over the average interest rate of bonds rounded to the nearest ¼ percent. Assessment amount would be \$7,030 per parcel. Assuming an interest rate of 5% over a 20-year period, assessment for a 24-foot wide road equates to total cost of \$561 per lot annual cost.

Project No. 9520023 Page 6

#### XI. NECESSITY AND COST-EFFECTIVENESS

It is our opinion that Falcon Avenue should be paved with 3.5-inches of bituminous. The continuous grading efforts and additions of gravel to maintain the surface are costly to the City and deplete natural resources. As is typical in rural residential areas, traffic along gravel roads can cause annoying and irritating dust problems. The overall strength can be improved with these projects. Ginger Avenue should be paved with a 1.5-inch, second lift of pavement.

The proposed shape and pave for Falcon Avenue and overlay improvements for Ginger Avenue are cost effective for the City. Other paving options for improving the roadway surface are not suitable. Portland cement concrete paving is expensive and unrealistic for this application. The life cycle costs of concrete can only be justified for roads subjected to heavy and frequent traffic loading.

The paving of Falcon Avenue and Ginger Avenue is also feasible from an engineering perspective. The City of Harris has improved streets in various parts of the City and found the improvements to increase the value of the properties benefiting from the improvements. The street cross section shows both an acceptable width for the pavement surface and shoulders and the structural strength to support the anticipated traffic loading.

If necessary, minor drainage improvements should be completed by City forces ahead of the improvements included herein to protect the street structure from saturation during the more frequent rainfalls and spring snowmelt.

#### XII. PROJECT SCHEDULE

| Task | Action   | Date                  |
|------|--|-----------------------|
| 1    | Council Receives the Feasibility Study and Orders the<br>Improvement Hearing | April 11, 2022        |
| 2    | First Published Notice   | April 21, 2022        |
| 3    | Second Published Notice  | April 28, 2022        |
| 4    | Improvement Hearing and Council Orders Improvement                           | May 9, 2022           |
| 5    | Council Approves Plans and Orders Bid Advertisement                          | June 13, 2022         |
| 6    | First Published Notice   | June 23, 2022         |
| 7    | Second Published Notice  | June 30, 2022         |
| 8    | Bid Letting  | July 7, 2022          |
| 9    | Council Receives Bids and Orders Assessment Hearing                          | July 11, 2022         |
| 10   | First Published Notice   | July 21, 2022         |
| 11   | Second Published Notice  | July 28, 2022         |
| 12   | Assessment Hearing   | August 11, 2022       |
| 12   | Council Awards Project   | September 12,<br>2022 |

Project No. 9520023

| 13 | Construction Begins   | September 2022 |
|----|-----------------------|----------------|
| 14 | Construction Complete | October 2022   |
| 15 | Warranty Review       | Summer 2023    |

#### XIII. **CONCLUSION & RECOMMENDATION**

It is recommended that the City chooses to complete the shape and pave on Falcon Avenue and overlay on Ginger Avenue. The total estimated project cost of the project, which includes the roadway improvements as well as overhead and contingency cost on Falcon Avenue, is \$465,000 and Ginger Avenue is \$70,300. It is recommended that this study be used as a guide for the layout, design, cost allocation, and project scheduling for the public improvements.

If the improvements considered within the scope of this report are to be completed during the 2022 construction season, it is critical to initiate the public hearing process, then order plans and specifications as soon as possible to allow the construction project to start in the early part of summer. The project identified herein, is necessary, cost effective, and feasible from an engineering perspective. The project is proposed to be financed through the assessment of the improvements to abutting properties, in accordance with Minnesota Statute 429.

#### **APPENDIX**

Table A.1

PROJECT DESCRIPTION: FALCON AVENUE FEASIBILITY STUDY

MSA PROJECT NUMBER: 09520023

CREATED BY: EEB CHECKED BY: CDS

DATE UPDATED 4/6/2022

| ESTIMATE YEAR:     | 2021 |
|--------------------|------|
| CONSTRUCTION YEAR: | 2022 |
|                    |      |

| ITEM<br>NO. | <u>DESCRIPTION</u>                                  | <u>QTY.</u> | <u>UNIT</u> | <u>UNIT PRICE</u> | TOTAL PRICE  |
|-------------|---|-------------|-------------|-------------------|--------------|
|             | SCHEDULE 1.0 - STREET                               |             |             |                   |              |
| 1           | MOBILIZATION  | 1           | LS          | \$11,100.00       | \$11,100.00  |
| 2           | REMOVE BITUMINOUS PAVEMENT                          | 198         | SY          | \$6.00            | \$1,188.00   |
| 3           | SAWING BITUMINOUS PAVEMENT (FULL DEPTH)             | 178         | LF          | \$4.00            | \$712.00     |
| 4           | SALVAGE MAIL BOX                                    | 10          | EA          | \$150.00          | \$1,500.00   |
| 5           | SUBGRADE EXCAVATION (EV)                            | 208         | CY          | \$18.00           | \$3,744.00   |
| 6           | AGGREGATE SURFACING, (LV), CLASS II                 | 186         | CY          | \$35.00           | \$6,510.00   |
| 7           | AGGREGATE BASE CLASS 5                              | 1760        | TON         | \$18.00           | \$31,680.00  |
| 8           | MILL BITUMINOUS SURFACE (1.5")                      | 13          | SY          | \$20.00           | \$260.00     |
| 9           | BITUMINOUS MATERIAL FOR TACK COAT                   | 1144        | GAL         | \$5.00            | \$5,720.00   |
| 10          | TYPE SP 9.5 WEAR COURSE MIXTURE 2B (STREET)         | 2086        | TON         | \$65.00           | \$135,590.00 |
| 11          | TYPE SP 12.5 NON-WEARING COURSE MIXTURE 2B (STREET) | 2781        | TON         | \$65.00           | \$180,765.00 |
| 12          | TRAFFIC CONTROL                                     | 1           | LS          | \$2,000.00        | \$2,000.00   |
|             |   |             |             |                   |              |

**MSA** 

CONTINGENCY AND SOFT COSTS: 22% \$83,769.00

TOTAL COST: \$464,538.00

\$380,769.00

CONSTRUCTION SUBTOTAL

Table A.2

PROJECT DESCRIPTION: GINGER AVENUE FEASIBILITY STUDY

47

CREATED BY: EEB CHECKED BY: CDS

DATE UPDATED 4/6/2022
ESTIMATE YEAR: 2021
CONSTRUCTION YEAR: 2022

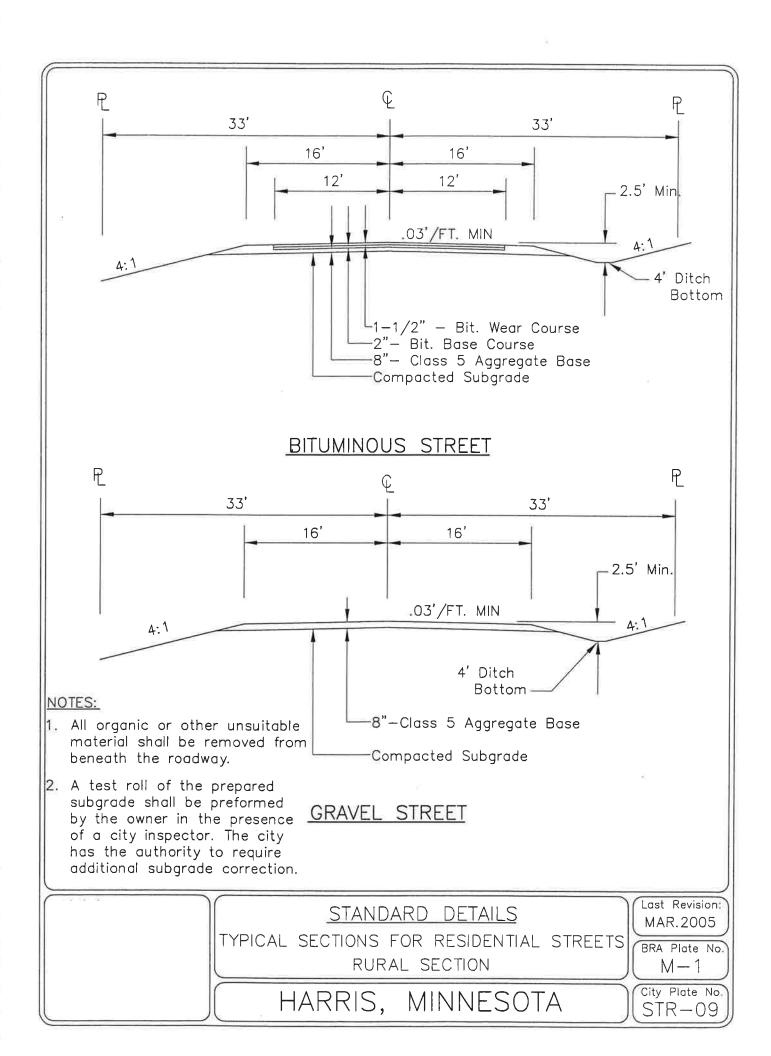
| <u>ITEM</u><br><u>NO.</u> | <u>DESCRIPTION</u>                             | <u>QTY.</u> | <u>UNIT</u> | <u>UNIT PRICE</u> | TOTAL PRICE |
|---------------------------|--|-------------|-------------|-------------------|-------------|
|                           | SCHEDULE 1.0 - STREET                          |             |             |                   |             |
| 1                         | MOBILIZATION                                   | 1           | LS          | \$3,000.00        | \$3,000.00  |
| 2                         | REMOVE CONCRETE PAVEMENT                       | 10          | SY          | \$10.00           | \$100.00    |
| 3                         | SAWING CONCRETE PAVEMENT (FULL DEPTH)          | 28          | LF          | \$10.00           | \$280.00    |
| 4                         | MILL BITUMINOUS SURFACE (1.5")                 | 72          | SY          | \$20.00           | \$1,440.00  |
| 5                         | BITUMINOUS MATERIAL FOR TACK COAT              | 411         | GAL         | \$5.00            | \$2,055.00  |
| 6                         | TYPE SP 9.5 WEARING COURSE MIXTURE 2B (STREET) | 750         | TON         | \$65.00           | 1           |
| 7                         | TRAFFIC CONTROL                                | 1           | EA          | \$2,000.00        | \$2,000.00  |

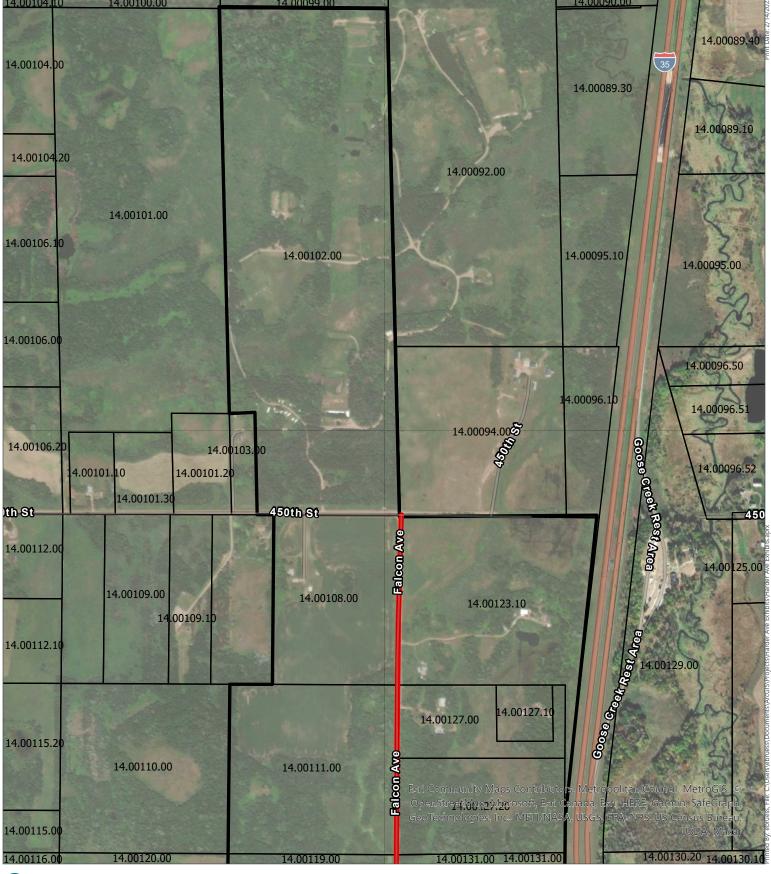
CONSTRUCTION SUBTOTAL \$57,625.00



CONTINGENCY AND SOFT COSTS: 22% \$12,678.00

TOTAL COST: \$70,303.00





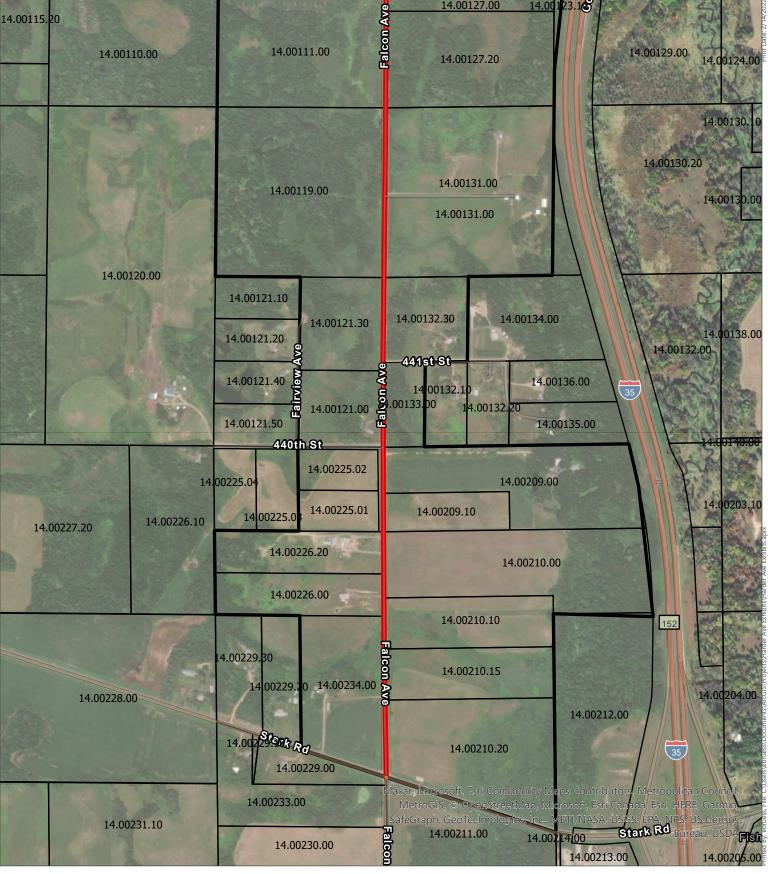


ProjectArea
AssessmentArea
Parcels

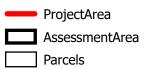
# **EXHIBIT A. 2N**FALCON AVENUE

HARRIS CHISAGO COUNTY, MN





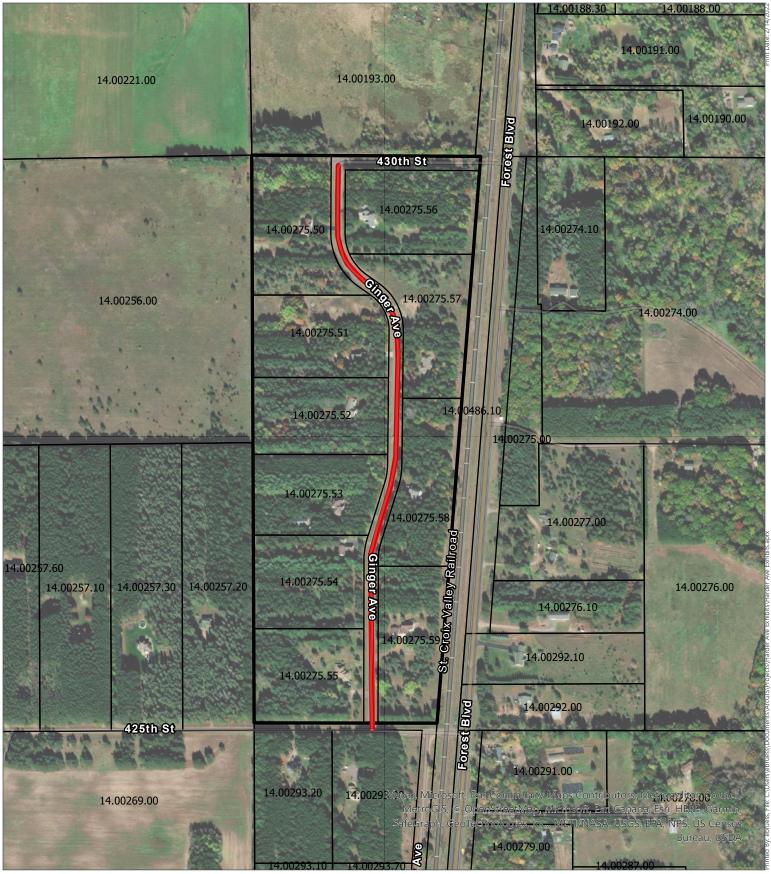




# **EXHIBIT A. 2S**FALCON AVENUE

HARRIS CHISAGO COUNTY, MN







ProjectArea

AssessmentArea

Parcels

# **EXHIBIT A. 3**GINGER AVENUE

HARRIS CHISAGO COUNTY, MN



# FALCON AVENUE IMPROVEMENTS PROJECT HARRIS, MINNESOTA MSA PROJECT NO. 09520023

ASSESSMENT ROLE

#### Adjusted **PROPERTY** Front PIN NUMBER OWNER CITY **STATE** 7IP Footage Assessment NO. **ADDRESS** GOPHER RIFLE & REVOLVER CLUB MN 14.00102.00 5180 450TH ST **HARRIS** 55032 \$27,959 1,326 14.00108.00 HAMMERSTROM JUDY ANN 5149 450TH ST HARRIS MN 55032 663 2 \$13,979 14.00111.00 HAMMERSTROM JUDY ANN 5149 450TH ST HARRIS MN 55032 663 \$13,979 3 14.00119.00 DONNA M REKUCKI REVOCABLE TRUST 44358 FALCON AVE HARRIS 55032 MN 1.326 4 \$27,959 14.00121.00 HANSON BRUCE H 44050 FALCON AVE **HARRIS** MN 55032 597 \$12,588 14.00225.02 BARIL ELIZABETH V MN 320 \$6,747 14.00225.01 BARIL ELIZABETH V MN 320 \$6,747 14.00226.20 MIELKE JOHN M & BONNIE E 43838 FALCON AVE HARRIS MN 55032 330 8 \$6,958 14.00226.00 **CROSSEN PAUL & DARLENE** 43774 FALCON AVE HARRIS MN 55032 330 9 \$6,958 14.00234.00 NELSON MARGARET R 5204 STARK RD HARRIS MN 55032 629 10 \$13,262 14.00210.20 GENE L PIERCE TRUST MN 610 11 \$12,862 14.00210.15 43625 FALCON AVE **HARRIS** MN PIERCE RANDY G & DEBORAH J 55032 400 \$8,434 12 14.00210.10 PIERCE RANDY G & DEBORAH J 43625 FALCON AVE **HARRIS** MN 55032 400 13 \$8,434 14.00210.00 PIERCE RANDY G & DEBORAH J 43625 FALCON AVE **HARRIS** MN55032 517 14 \$10,901 14.00209.10 THIEMAN TODD MN 300 15 \$6,325 DEHEN JOSEPH DAVID 14.00209.00 43967 FALCON AVE **HARRIS** MN 55032 360 \$7,591 16 14.00133.00 MAGELLAN PIPLINE COMPANY LLC & ATTN: MN 330 17 **BECKY SPENCE** \$6.958 14.00132.30 HARRIS ROBIN A 5356 441ST ST HARRIS 55032 MN 333 \$7,021 18 14.00131.00 HARRINGTON THOMAS & VERONICA 44371 FALCON AVE **HARRIS** MN 55032 1,326 19 \$27,959 14.00127.20 **BLOMQUIST KYLE E** 44501 FALCON AVE **HARRIS** MN 55032 754 20 \$15,898 ANDERSON DAVID CHARLES & PAMELA K 14.00127.00 44695 FALCON AVE **HARRIS** MN55032 572 **ANDERSON** \$12,061 21 14.00123.10 BEAN MICHAEL J 44799 FALCON AVE HARRIS MN 55032 1.326 \$27,959 22

Total 289,538

#### GINGER AVENUE IMPROVEMENTS PROJECT

#### HARRIS, MINNESOTA

#### MSA PROJECT NO. 09520023

#### ASSESSMENT ROLE

| NO. | PIN NUMBER  | OWNER                          | ADDRESS          | CITY   | STATE | ZIP   | Adjusted<br>Front<br>Footage | Assessment |
|-----|-------------|--------------------------------|------------------|--------|-------|-------|------------------------------|------------|
| 1   | 14.00275.50 | LAKE PAUL & JENNIFER           | 42936 GINGER AVE | HARRIS | MN    | 55032 | 716                          | \$7,030    |
| 2   | 14.00275.51 | HEIDELBERGER WALLACE W & LINDA | 42816 GINGER AVE | HARRIS | MN    | 55032 | 408                          | \$7,030    |
| 3   | 14.00275.52 | CARLSEN RONALD F               | 42756 GINGER AVE | HARRIS | MN    | 55032 | 355                          | \$7,030    |
| 4   | 14.00275.53 | LARSON ANDREW J & MEAGAN L     | 42676 GINGER AVE | HARRIS | MN    | 55032 | 386                          | \$7,030    |
| 5   | 14.00275.54 | COE RANDALL LEE                | 42656 GINGER AVE | HARRIS | MN    | 55032 | 434                          | \$7,030    |
| 6   | 14.00275.55 | SCHEELE VICTORIA               | 42530 GINGER AVE | HARRIS | MN    | 55032 | 436                          | \$7,030    |
| 7   | 14.00275.56 | WINDINGSTAD MARY               | 42941 GINGER AVE | HARRIS | MN    | 55032 | 391                          | \$7,030    |
| 8   | 14.00275.57 | GUSTAFSON SUSAN J & DENNIS O   | 42797 GINGER AVE | HARRIS | MN    | 55032 | 763                          | \$7,030    |
| 9   | 14.00275.58 | SCHMIDT DAREK                  | 42705 GINGER AVE | HARRIS | MN    | 55032 | 761                          | \$7,030    |
| 10  | 14.00275.59 | PELTIER BRANDON                | 42561 GINGER AVE | HARRIS | MN    | 55032 | 725                          | \$7,030    |

Total 70,300