

FRIENDLY HILLS NEIGHBORHOOD IMPROVEMENTS

Feasibility Study

City Project 202407

City of Mendota Heights, Minnesota

JULY 2024

Kimley»Horn



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Feasibility Study

CITY OF MENDOTA HEIGHTS, MINNESOTA
CITY PROJECT 202407



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

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File: 161212000

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EXECUTIVE SUMMARY

This feasibility study and report has been prepared for the Friendly Hills Neighborhood Improvements project, City Project No. 202407.

The proposed project improvements consist of a full-depth pavement reclamation (FDR) of multiple street segments throughout the Friendly Hills Neighborhood and surrounding areas. The project improvements also include watermain, sanitary sewer, storm sewer, and trail improvements. The total length of roadway rehabilitation included with the project is 4.56 miles. The total length of trail rehabilitation improvements is 0.45 miles. A project area map showing the street and trail segments in the project is included in **Appendix A**. The project is proposed to be constructed over the 2025 and 2026 construction seasons. Generally, the 2025 construction area includes Decorah Lane and all project street segments to the north. Generally, the 2026 construction area includes all the project street segments south of Decorah Lane. Detailed information on the proposed improvements is provided in the report.

The estimated costs for the proposed improvements are detailed in the table below. These costs include a 10% construction cost contingency, 20% indirect cost for City improvements, and 15% indirect cost for Saint Paul Regional Watermain (SPRWS) improvements.

Project	Roadway Improv.	Storm Sewer Improv.	Sanitary Sewer Improv.	Watermain Improv.	City Park, Trail and ADA Improv.	Total
CP 202407	\$5,611,446.06	\$702,102.50	\$1,083,860.80	\$1,787,594.61	\$187,440.00	\$9,372,443.97

The improvements are proposed to be financed through a combination of Municipal Levy, Municipal State Aid Funds (MSA), various City utility funds, SPRWS funds, and special benefit assessments. A preliminary financing plan is provided in the table below.

Total	Municipal Levy	MSA Funds	Sanitary Sewer Utility Funds	Stormwater Utility Funds	SPRWS Funds	Special Assessments
\$9,372,443.97	\$3,179,325.10	TBD	\$1,083,860.80	\$702,102.50	\$1,770,544.61	\$2,636,610.96

A more detailed financing plan is provided within the body of this report.

We recommend that the following project schedule be followed:

Council Receives Feasibility Study	August 7, 2024
City Council Schedule Public Hearing	
Project Informational Open House #2	Early September 2024
Public Improvement Hearing	September 17, 2024
Council Order Project	
Final Design	September 2024 – January 2025

Council Approves Plans and Specs	February 4, 2025
Authorize Advertisement for Bids	
Bid Opening	March 5, 2025
City Council Accepts Bids	March 18, 2025
Council Awards Contract	
Neighborhood Construction Open House	April 2025
Construction (2025 Area)	May 2025 – September 2025
Construction (2026 Area)	May 2026 – September 2026
City Council Schedule Assessment Hearing	September 2026
Assessment Hearing Informational Meeting	September/October 2026
Assessment Hearing	October 2026

Based upon the analysis completed as a part of this report, the proposed City Project 202407 is feasible, necessary, cost-effective, and would benefit the City of Mendota Heights and the residents in the project area.

We recommend the following:

- A. The City Council orders and holds a public hearing on September 17, 2024.
- B. After receiving the appropriate staff reports, staff information, and public hearing input, the Council makes a decision on the approval or rejection of the proposed improvements and, if applicable, orders the approved project.

1. INTRODUCTION

The Mendota Heights City Council authorized the preparation of a feasibility study as part of the City's Friendly Hills Neighborhood Improvements project on September 5th, 2023. Additional street segments were added to the project on June 4th, 2024. The project includes 4.56 miles of streets and is proposed for rehabilitation in 2025 and 2026. A general summary of the proposed improvements included is provided below.

- Pavement full-depth reclamation of the following street segments:
 - 2025 Area: Creek Avenue, Fox Place, Hokah Avenue, Aztec Lane, Decorah Lane, Apache Street (north of Decorah Lane), Pontiac Place (north of Decorah Lane), Cheyenne Lane, Ocala Lane, Ocala Court and Nashua Lane
 - 2026 Area: Apache Court, Apache Lane, Apache Street (south of Decorah Lane), Pontiac Place (south of Decorah Lane), Pueblo Lane, Pueblo Drive, Navajo Lane, Keokuk Lane, Mohican Lane, Mohican Court, Havenview Court, Hazel Court, and Pagel Road
- Trail rehabilitation along Decorah Lane and through Friendly Hills Park between Decorah Lane and Apache Lane, as well as north of the Apache Street cul-de-sac
- Spot concrete curb and gutter replacement
- Proposed storm sewer installation at the Creek Avenue and Dodd Road intersection
- Sanitary sewer interceptor replacement along Decorah Lane (Dodd Road to Apache Street) and along Apache Street (north of Decorah Lane)
- Storm sewer pipe and structure replacement, adjustment, and rehabilitation as needed
- Sanitary sewer pipe and structure replacement and adjustments
- Watermain replacement on Aztec Lane, Cheyenne Lane, Pontiac Place and Keokuk Lane, Decorah Lane (Dodd Road to Apache Street) and Apache Street (north of Decorah Lane)
- Sacrificial anode retrofits on existing cast iron pipe throughout the project area
- Watermain valve and hydrant replacement and adjustments as needed
- ADA ramp improvements

A project study area map for the project is included in **Appendix A**.

2. PROPOSED PUBLIC IMPROVEMENTS

The street segments proposed for rehabilitation are identified in the City's current Capital Improvement Plan (CIP). Pavement Condition Index (PCI) ratings are used by the City to evaluate the condition of existing street pavements. PCI ratings for the street segments in the project area generally range between 25 and 50. Generally, mill and overlay improvements are cost effective when PCI ratings are above 70. When PCI ratings fall below 70, full pavement rehabilitation methods are necessary to rehabilitate the pavements. A full depth pavement reclamation rehabilitation approach is proposed for the street segments in the project area. Geotechnical borings and analysis were obtained with the feasibility study to support this recommendation and are included in **Appendix C**.

STREET IMPROVEMENTS

The proposed street improvements include approximately 4.56 miles of full-depth pavement reclamation. Additional excavation activities will be necessary along Decorah Lane and Apache Street where the

sanitary sewer interceptor replacement is proposed and for limited other storm sewer and watermain improvement areas.

TYPICAL SECTION

The streets in the project area are urban section roadways with barrier style concrete curb and gutter except for Keokuk Lane between Dodd Road and Pagel Road. Keokuk Lane between Dodd Road and Pagel Road does not contain existing curb and gutter. Existing street widths and an inventory of street segments in the project area are provided in the table below. The street width of Decorah Lane varies between 27-feet (Dodd Road to Apache Street) and 33-feet (Apache Street to Huber Drive). The 27-foot section of Decorah Lane includes an off-street trail but restrict on-street parking.

C.P. 202407 Street Widths			
Street Name	Street Width (ft)	From	To
Apache Court	33	North End	Huber Drive
Apache Lane	33	West End	Apache Court
Apache Street	33	Pueblo Lane	Northern End
Aztec Lane	33	Southern End	Northern End
Cheyenne Lane	33	Apache Street	Huber Drive
Creek Avenue	33	Dodd Road (TH 149)	Aztec Lane
Decorah Lane	27	Dodd Road (TH 149)	Apache Street
	33	Apache Street	Huber Drive
	33	Aztec Lane	Creek Avenue
Havenview Court	33	Pagel Road	East End
Hazel Road	33	West End	Pagel Road
Hokah Avenue	33	Dodd Road (TH 149)	Aztec Lane
Keokuk Lane	33	Pagel Road	Pueblo Lane
	44	Dodd Road	Pagel Road
Mohican Lane	33	Pueblo Drive	Eastern End
Mohican Court	33	Pueblo Lane	East End
Nashua Lane	33	Decorah Lane	Cheyenne Lane
Navajo Lane	33	Pontiac Place	Pueblo Lane
Ocala Court	33	Ocala Lane	Eastern End
Ocala Lane	33	Pontiac Place	Decorah Lane
Pagel Road	33	Dodd Road	South End
Pontiac Place	33	Apache Street	Cheyenne Lane
Pueblo Drive	33	Southern Limits	Keokuk Lane
Pueblo Lane	33	Mohican Lane	Decorah Lane

Street widths are generally not proposed to change with the project. The addition of a new trail along the south side of Decorah Lane between Apache Street and Pueblo Lane would require narrowing the roadway to 27-feet, matching the street width between Dodd Road and Apache Street. Consideration for this trail and roadway narrowing is further discussed later in the feasibility study. Spot curb and gutter replacement throughout the project area will not change existing street widths.

Typical sections for the proposed improvements are included in **Appendix B**.

PAVEMENT SECTION AND PAVEMENT REHABILITATION APPROACH

A geotechnical investigation was performed as a part of the feasibility study. Existing bituminous depths ranged between 3.5-inches to 7-inches on the project streets and apparent aggregate base thicknesses ranged between 2-inches and 16-inches. Sub-base soils in the project area generally consist of silty sands, sandy lean clays, and lean clays. The full geotechnical report is included in **Appendix C**.

Full depth pavement reclamation (FDR) is the proposed pavement rehabilitation method for all streets within the project limits. Recommendations for the pavement rehabilitation approach consider current PCI ratings, pavement age, pavement maintenance completed since last reconstruction, existing soils information, excavations due to utility improvements, and existing pavement information. A pavement section of 8-inches (minimum) reclaimed base material and 4-inches of bituminous pavement is proposed. In locations where full utility replacement work requires significant underground disturbance, additional curb and gutter replacement is anticipated along with pavement rehabilitation consisting of the same 4-inches of bituminous and 8-inches of aggregate base. Regrading of reclaimed base material to a proposed 3% roadway crown is proposed to maximize the amount of reclaimed material used in the pavement section, avoids exporting material from the project, and promotes positive drainage on the streets.

Significant areas of additional subgrade correction are not anticipated throughout the project areas and will only be corrected if identified during construction. Unsuitable soils in areas of deeper excavations for utility improvements will be removed and replaced with suitable materials during backfilling operations. In the event that soils are found to be unstable in FDR areas, they will be corrected with sub-cutting and replacement or scarification, drying, and re-compaction with a thicker, reclaimed aggregate base section or with stabilizing rock as directed by the engineer. Excess reclamation material will be used for sub-grade correction as feasible.

Proposed roadway typical sections and improvement maps depicting the rehabilitation areas are included in **Appendix B**.

CURB AND GUTTER IMPROVEMENTS

Existing concrete curb and gutter that is settling, not providing adequate conveyance of stormwater, contains significant cracks, or has failing joints, is identified for replacement. Areas with utility improvements will also require full curb and gutter replacement. Curb and gutter identified specifically for replacement in the feasibility study phase is shown on the improvement maps in **Appendix B**. Additional spot curb and gutter replacement, not shown on the map, will be identified for replacement ahead of construction.

Two intersections within the project area; Dodd Road and Creek Avenue and Dodd Road and Decorah Lane, currently do not have curb along the intersection turning radii. Erosion, as a result of stormwater runoff and off-road vehicle tracking, is observed at both intersections. Installation of concrete curb and gutter is recommended at these intersections to address the erosion issues, improve stormwater management, and keep vehicles on pavement.

Keokuk Lane between Dodd Road and Pagel Road currently does not contain curb and gutter. The City has no history of ongoing maintenance issues with the current rural typical roadway section and installation of curb and gutter is not proposed.

Curb and gutter improvements are also proposed at the Havenview Court, Apache Lane, and Ocala Court cul-de-sacs to address drainage issues that were identified during site visits and resident input. The final limits of curb replacement in these areas will be identified during final design but anticipated replacement limits are shown in the project improvements maps.

DRIVEWAY RECONSTRUCTION

The FDR rehabilitation will generally not disturb residential driveways. However, where utility replacement areas are proposed or spot curb replacement is necessary in front of existing driveways, a small driveway disturbance will be necessary. Driveways will be replaced in-kind within the construction disturbance area. All disturbed driveways will be reconstructed with 6-inches of aggregate base under a minimum of 6-inches of concrete or 3-inches of bituminous pavement. Affected residents and businesses will be notified of the disturbance prior to construction.

STREET LIGHTING

In general, there is limited or no existing street lighting throughout the project neighborhood streets. Intersection street lighting does exist at intersections with Dodd Road (TH 149). No street lighting improvements are proposed with the project.

TRAIL AND SIDEWALK INFRASTRUCTURE

Existing trail facilities are located within the project area along Decorah Lane (Dodd Road to Apache Street and Pueblo Lane to Huber Drive) and within Friendly Hills Park. These existing trail pavements are debilitated and in need of replacement. The existing trail pavement north of the Apache Street cul-de-sac is also in poor condition. Trail segments within the project area identified for replacement are shown in the project improvements map in **Appendix B**. The limits of trail replacement north of the Apache Street cul-de-sac are determined based on potential future Dakota County trail improvements through this area.

Existing sidewalk along the south side of Havenview Court is privately maintained and will not be replaced with the project.

Multiple trail and sidewalk connections to project street segments exist in the project area. The majority of these connections do not contain compliant Americans with Disabilities Act (ADA) ramp infrastructure. Locations of proposed ADA ramp construction are shown on the improvements map in **Appendix B**.

DECORAH LANE TRAIL GAP – APACHE STREET TO PUEBLO LANE

The section of Decorah Lane between Apache Street and Pueblo Lane does not currently contain a trail along the south side of the road. Construction of a trail along this segment would provide a continuous off-street trail for bicycle and pedestrian users between Huber Drive and Dodd Road. City staff solicited feedback on a potential trail in this location. A summary of the feedback received from the public regarding this trail gap is included in the Public Engagement section of the report.

Construction of a trail in this area would require narrowing the roadway from 33-feet to 27-feet and restricting parking along the south side of Decorah Lane. Construction of new curb and gutter, storm sewer improvements, hydrant relocations, front yard grading, and driveway reconstruction would all be necessary to accommodate a trail in this segment. It is anticipated that construction of this trail segment could be completed within existing right-of-way and without significant impacts to existing trees. A cost

estimate for this potential trail improvement was prepared with the study and is estimated to add ~\$337,000 to the overall project cost and would not be assessable. A detailed breakdown of the cost estimate for these trail improvements is included in **Appendix D**. At this time, these trail improvements are not included in the project recommendations and require further discussion with City Council.

STREET SIGNAGE

Street signs in poor condition or out of compliance with current City standards are planned for replacement throughout the project area. Existing yield and stop controlled intersections throughout the project area were reviewed with the study. Current City Code Sections 6-3-1 Through Streets and Stop Intersections and 6-3-2 Through Streets and Yield intersections identify signing and traffic conditions at most intersections in the project area. Revisions to yield and stop configuration intersections in the project area would require a modification to City Code. The City is not aware of any traffic operations or crash history at intersections within the neighborhood. No modifications to existing street signage layouts are proposed with the project. An allowance for street signage improvements is included in the feasibility study.

STORM SEWER IMPROVEMENTS

Storm sewer exists throughout the project area capturing stormwater runoff from the curb and gutter and conveying it to area stormwater pond discharge locations. The existing storm sewer system and proposed storm sewer improvements are shown on the improvement maps in **Appendix B**. A summary of the proposed storm sewer improvements is provided below:

- Existing manholes and catch basins in the street pavement and curb and gutter that are not identified for replacement will be adjusted to the new pavement/curb grades. Existing castings will be replaced if in poor condition.
- Storm sewer along Decorah Lane between Dodd Road and Apache Street and at the intersection of Decorah Lane and Apache Street is proposed for replacement due to sanitary sewer and watermain installation.
- An existing stormwater channel along the north side of Creek Avenue residences has historically created erosion and high water level issues in the neighborhood. Stormwater runoff from the new City fire station and upstream areas of Dodd Road route stormwater through this backyard channel. The feasibility study included an evaluation of the existing storm sewer system on Creek Avenue to identify if excess capacity is available for diverted stormwater. The existing Creek Avenue storm sewer system has excess capacity to carry additional stormwater. A diversion of some stormwater flows from Dodd Road, through this system, is proposed with the project as shown in the improvement maps. The ultimate discharge location for this diverted stormwater is the same as the backyard channel. This diversion and new storm sewer improvement will reduce flows in heavier rainfall events behind Creek Avenue and still route stormwater to its existing outfall location.
- Multiple localized drainage concerns were identified during a project site visit and via resident comments with the project. The locations and proposed improvements to address the issues are identified below.
 - Near the Cheyenne Lane and Nashua Lane intersection: Settled curb and gutter, flat curbline grades, and sump pump discharges are causing localized street flooding. New storm sewer and curbline replacement are proposed to address this issue.

- Ocala Court cul-de-sac: Settled curb and gutter and flat curbline grades are causing localized street flooding. New storm sewer improvements and curbline replacement are proposed to address this issue.
- Pubelo Drive and Mohican Lane intersection: Settled curb and gutter and existing pavement grades are causing localized street flooding. Curbline replacement and regrading of the intersection are proposed to address this issue.
- Along Mohican Lane: Existing sump pump discharges onto the street are causing icy road conditions in the winter. Extension of storm sewer up Mohican Lane will allow for sump pump connections and address the winter icing conditions.
- Havenview Court: Heaving of existing curb and gutter due to tree roots is trapping water on the roadway. Replacement of existing curb and gutter to drain to existing catch basins is proposed to address this issue.
- Hazel Court and Pagel Road Intersection: An existing low point in the northwest corner of the intersection is ponding water. A new catch basin is proposed to capture this water and discharge off the roadway.
- Apache Lane: Flat grades of existing cul-de-sac curb and gutter are causing ponding in the cul-de-sac. Replacement of the cul-de-sac curb and gutter will address the drainage issues.

Linear, pavement rehabilitation projects do not generally disturb the subbase soils beneath the existing pavement and aggregate base. In addition, no new impervious surface is created with the project. No stormwater management improvements are proposed with the project. The City's rain garden program will be offered to interested residents on this project, consistent with previous City street rehabilitation projects. Rain gardens will be discussed at the next public informational meeting and an allowance for rain garden construction is included in the project construction budget.

SANITARY SEWER IMPROVEMENTS

An existing 24-inch City sanitary sewer interceptor along Decorah Lane (Dodd Road to Apache Street) and Apache Street (north of Decorah Lane) was televised ahead of the feasibility study. Evidence of significant corrosion of the bottom of the sewer pipe, exposing existing rebar, was identified and this interceptor pipe is proposed for replacement. The corrosion of the pipe is too significant to consider a lining rehabilitation improvement. Polyvinyl chloride (PVC) pipe material is proposed to provide improved resistance to future corrosion from existing sewage and corrosive, clay soil conditions. Existing residential sanitary sewer services will be reconnected to the new pipe within the street. Replacement of sanitary sewer services is not proposed between the new main and existing right-of-way.

Complaints of sewer gas odors within the Decorah Lane and Apache Street area were received as a part of the public engagement process and have been received historically by the City. The following project improvements and next steps are being considered to address the sewer gas odor concerns:

- Sewer gas samples within the project area and upstream and downstream of the project area will be collected in late Summer 2024. The gas samples will be analyzed to understand the makeup of the sewer gas and understand locations where gas concentration is highest.
- If determined feasible and cost effective within the project area, the sewer gas analysis data will be used to size an odor control unit that will remove sewer gases directly from the sanitary sewer system in the project area and filter the gases to remove the odors. A budget allowance for two

odor control units is included in the feasibility study and would be funded via sanitary sewer utility funds.

- Existing drops at manhole locations are present throughout the Decorah Lane and Apache Street interceptor. The drops are necessary to maintain good flow in the sewer pipe but do increase mixing and turbulence of the sewer flows, which can result in increased sewer odors. Elimination of these sewer drops will be further evaluated in final design to reduce the mixing and turbulence in the sewer flows and potentially reduce sewer gas concentrations.
- At the intersection of Decorah Lane and Apache Street, the 90-degree routing of the sanitary sewer interceptor results in increase turbulence and mixing of sewage. The project is proposing an additional manhole at the intersection to more smoothly convey sewage in the interceptor pipe at this intersection and reduce mixing and turbulence.

Existing sanitary sewer manholes within the project street segments will be adjusted to the new pavement grade. No sanitary sewer manholes outside of the interceptor replacement area are identified for replacement. The City is planning for a sewer lining project in future construction years as part of a separate project.

WATERMAIN IMPROVEMENTS

Saint Paul Regional Water Service (SPRWS) currently provides water service to residents in the project area. The City partners with SPRWS as street improvement projects are planned to coordinate necessary watermain improvements at the same time as City street improvement projects take place. SPRWS has identified improvements in the Friendly Hills neighborhood, mainly consisting of replacing existing cast-iron pipe (CIP) watermains. CIP watermain is located on Creek Avenue, Fox Place, Aztec Lane, Apache Street, Pontiac Place, Cheyenne Lane, Decorah Lane (east of Pontiac Place), Ocala Lane, Navajo Lane, Keokuk Lane, Pueblo Drive, Mohican Lane, Mohican Court, and Pueblo Lane.

SPRWS has reviewed the break history, original installation time, existing soils, and other factors to identify which segments of CIP watermain will be replaced with the project. A summary of the proposed watermain improvements is listed in the table below and shown on the improvements maps in **Appendix B**. Pipe bursting installation methods are proposed where applicable to reduce the extent of curb and gutter removal and better align with the overall full depth pavement reclamation project approach.

CP 202407 – Friendly Hills Neighborhood Improvements					
Street Name	Material and Install Year	Recommendation	From	To	Approximate Length (ft)
Apache Street	Cast-Iron, 1956	Sacrificial Anode Retrofit	Pueblo Lane	Decorah Avenue	1,575
Apache Street	Cast-Iron, 1956	Replacement (Open Trench)	Decorah Lane	North End	900
Aztec Lane	Cast-Iron, 1956	Replacement (Pipe Bursting)	South of Hokah Avenue	North of Creek Avenue	1,450
Aztec Lane to Apache Street	Cast-Iron, 1956	Abandonment	Aztec Lane	Apache Street	600

Cheyenne Lane	Cast-Iron, 1956	Replacement (Pipe Bursting)	Apache Street	200' East of Pontiac Place	1,250
Creek Avenue	Cast-Iron, 1956	Sacrificial Anode Retrofit	Dodd Road (TH 149)	Aztec Lane	750
Decorah Lane	Proposed	Furnish and Installation	Dodd Road (TH 149)	Apache Street	650
Fox Place	Cast-Iron, 1956	Sacrificial Anode Retrofit	Aztec Lane	Creek Avenue	800
Hokah Avenue	Cast-Iron, 1956	Sacrificial Anode Retrofit	Dodd Road (TH 149)	Aztec Lane	325
Keokuk Lane	Cast-Iron, 1956	Replacement (Pipe Bursting)	Pagel Road	Pueblo Lane	1,450
Mohican Lane	Cast-Iron, 1956	Sacrificial Anode Retrofit	Pueblo Drive	Pueblo Lane	930
Mohican Court	Cast-Iron, 1956	Sacrificial Anode Retrofit	South End	Pueblo Lane	600
Navajo Lane	Cast-Iron, 1956	Sacrificial Anode Retrofit	Pontiac Place	Pueblo Lane	650
Ocala Lane	Cast-Iron, 1980	Sacrificial Anode Retrofit	Pontiac Place	Decorah Lane	1,050
Pontiac Place	Cast-Iron, 1956	Replacement (Pipe Bursting)	Apache Street	Cheyenne Lane	1,200
Pueblo Lane	Cast-Iron, 1956	Sacrificial Anode Retrofit	Mohican Lane	Decorah Lane	1,115
Pueblo Drive	Cast-Iron, 1956	Sacrificial Anode Retrofit	South End	Keokuk Lane	410

An existing cast-iron pipe between Aztec Lane and Apache Street is not feasible to replace and is challenging to access for maintenance. This section of watermain is recommended for abandonment due to poor pipe conditions, future maintenance issues, and property impacts upon potential replacement. A new watermain along Decorah Avenue, connecting to existing watermain on Dodd Road, will re-establish the watermain loop and maintain existing water service levels to the neighborhood.

In locations where CIP watermain is not identified for replacement on the project, sacrificial anodes will be installed to extend the service life of the existing watermains. Project street segments not included in the table above have ductile iron (DIP) watermains and are not in need of improvements.

PRIVATE UTILITIES

In general, conflicts with private utility facilities in the existing City right-of-way are not anticipated as a part of the project. Installation of new watermain on Decorah Lane and Dodd Road may require some

private utility relocation. In addition, spot curb replacement areas and some storm sewer work, may require exposure of existing private utilities. A Gopher One Map ticket request was submitted for the project area as a part of the feasibility study and the following utility companies have facilities present in the project areas:

- Arvig
- Lumen
- Comcast
- Dakota County Fiber
- Mendota Heights Fiber
- MCI
- Mobil
- Xcel (Gas)
- Xcel (Power)

Private utility companies will be notified of the project during final design and directed to schedule and perform any relocation work in order to not delay the project.

4. PERMITS AND APPROVALS

The proposed improvements will require acquisition of the following permits:

- General stormwater permit for construction activities under the Nation Pollutant Discharge Elimination System program – Minnesota Pollution Control Agency
- MnDOT Right-of-Way Permit
 - Areas of disturbance along Dodd Road (TH 149) for watermain replacement
 - Project work at intersections with Dodd Road (TH 149) including Decorah Lane, Keokuk Lane, Pagel Road, Hokah Avenue, and Creek Avenue

Decorah Lane is on the City's Municipal State Aid Street (MSAS) system. Use of MSAS funding for street improvements on the City's MSAS system requires plan approval by the Minnesota Department of Transportation's (MnDOT) State Aid division. A design plan submittal and approval by MnDOT State Aid will be necessary for work on Decorah Lane. FDR pavement improvements are considered reconditioning improvements by State Aid and will be subject to State Aid Rule 8820.9926. All streets listed above meet the minimum criteria for Rule 8820.9926 and no variances will be necessary for this project.

5. EASEMENT AND PROPERTY REQUIREMENTS

The street, storm, and utility improvements are proposed to occur within existing City right-of-way and easements. No easement or property acquisition is anticipated for this project.

6. PUBLIC ENGAGEMENT

As a part of the initial project mailings, a questionnaire was sent out to all residents in the project area to solicit feedback on the proposed project and collect information about the neighborhood. This included seeking information regarding drainage issues, traffic operations, potential Trail on Decorah Lane,

pedestrian safety, and general project feedback. A summary of the questionnaire feedback is provided below:

- Multiple, localized drainage issues were identified and have been reviewed and addressed, as applicable, with the proposed improvements
- Support and opposition to a new trail along Decorah Lane between Apache Lane and Pueblo Lane in the questionnaire was nearly split. Support for the trail was generally to get bicycles and pedestrians off the roadway. Opposition for the trail was loss of on-street parking, lack of use, and it generally being unnecessary.
- Some traffic safety concerns including sightlines and signage were noted. Traffic safety and signage issues were reviewed by City staff with the feasibility study and recommendations, as applicable or feasible, within existing right-of-ways, are included in the proposed improvements.

The City received 83 completed surveys as a part of the feasibility study.

An informational neighborhood open house meeting was held on June 20th, 2024 at the Mendota Heights City Hall. The purpose of the open house meeting was to introduce residents to the project, provide background on the feasibility study, share project schedule, and obtain input on the project. A total of 16 residents signed in at the open house. No in person questionnaires were submitted at the open house but multiple attendees completed the questionnaire virtually.

A summary of the questionnaire responses is included in **Appendix F**.

7. ESTIMATED COSTS AND PROJECT FINANCING

The estimated costs for the Friendly Hills Neighborhood Improvement project are provided in the table below. The estimated project costs include a 10% construction contingency and an allowance for indirect costs (20% for City of Mendota Heights and 15% for SPRWS). Indirect costs include legal, engineering, administration, and finance costs. Detailed cost estimates are provided in **Appendix D**.

Project	Roadway Improv.	Storm Sewer Improv.	Sanitary Sewer Improv.	Watermain Improv.	City Park, Trail and ADA Improv.	Total
CP 202407	\$5,611,446.06	\$702,102.50	\$1,083,860.80	\$1,787,594.61	\$187,440.00	\$9,372,443.97

The project will be funded through the following sources:

Street and Storm Sewer

Street improvements will be funded through the City's municipal levy. Storm sewer improvements will be funded by the City's Stormwater Management fund.

Special Assessments

The property owners' share of the street and storm costs will be funded by assessments in accordance with Minnesota Statutes Chapter 429 and the City's current assessment policy. The City's current policy is to assess 50% of the street improvements on the project. A preliminary assessment roll and map for each project area is provided in **Appendix E**.

Municipal State Aid (MSA) Funds

Decorah Lane is eligible for Municipal State Aid (MSAS) funding on the project. The City will fund a portion of the Decorah Lane improvements using State Aid funds.

Watermain

The watermain improvements will be fully funded by Saint Paul Regional Water Services.

Sanitary Sewer

Sanitary sewer improvements identified in this report will be funded through City sewer utility funds.

The improvements are proposed to be assessed on a per unit basis. A preliminary assessment map is included in **Appendix E**. The preliminary assessment area includes 343 residential properties and 22 City owned properties. Residential parcels are considered one unit per the City assessment policy and City owned parcels are considered one unit per 100 linear feet of frontage. The total number of assessable units on the project is 365. The table below details the assessment calculation.

Total Project Cost	\$9,372,443.97
Total Assessable Project Cost	\$5,611,446.06
Total Assessment Amount (50%)	\$2,805,723.03
Residential Units	343
Total Residential Assessment Amount	\$2,636,610.96
City Units	22
Total City Assessment Amount (Municipal Levy)	\$169,112.07
Total Number of Units	365
Assessment Amount per Unit	\$7,686.91

A preliminary assessment roll is included in **Appendix E**.

The project is proposed to be funded per the funding shown in the table below.

Total	Municipal Levy	MSA Funds	Sanitary Sewer Utility Funds	Stormwater Utility Funds	SPRWS Funds	Special Assessments
\$9,372,443.97	\$3,179,325.10	TBD	\$1,083,860.80	\$702,102.50	\$1,770,544.61	\$2,636,610.96

8. PROJECT SCHEDULE

If the City Council chooses to accept this report and schedule a public hearing, we recommend that the following project schedule be followed:

Council Receives Feasibility Study	August 7, 2024
City Council Schedule Public Hearing	
Project Informational Open House #2	Early September 2024
Public Improvement Hearing	September 17, 2024
Council Order Project	
Final Design	September 2024 – January 2025
Council Approves Plans and Specs	February 4, 2025
Authorize Advertisement for Bids	
Bid Opening	March 5, 2025
City Council Accepts Bids	March 18, 2025
Council Awards Contract	
Neighborhood Construction Open House	April 2025
Construction (2025 Area)	May 2025 – September 2025
Construction (2026 Area)	May 2026 – September 2026
City Council Schedule Assessment Hearing	September 2026
Assessment Hearing Informational Meeting	September/October 2026
Assessment Hearing	October 2026

9. SUMMARY AND RECOMMENDATIONS

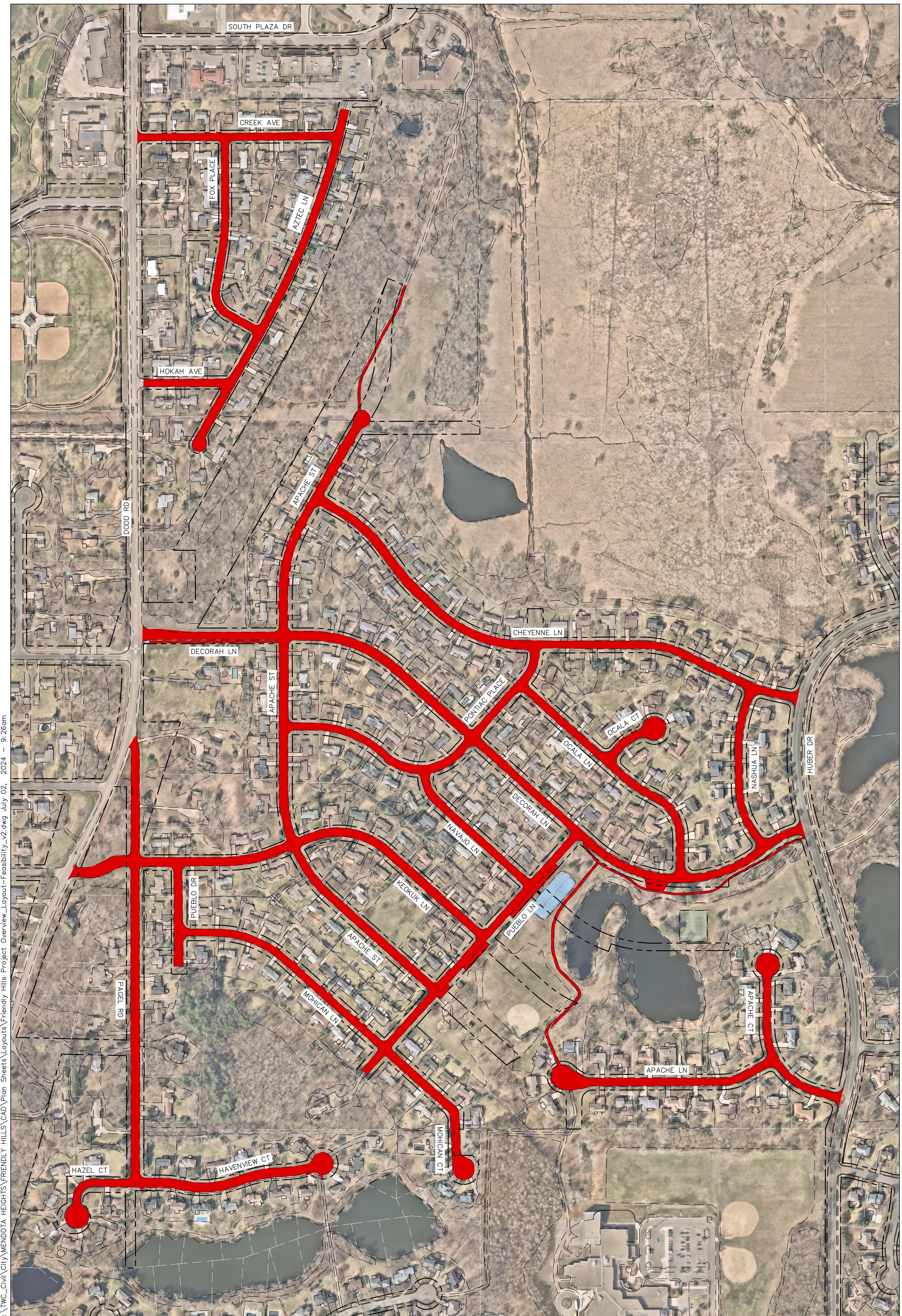
Based upon the analysis completed as a part of this report, the proposed Friendly Hills Neighborhood Improvements Project is feasible, necessary, cost effective, and would benefit the properties in the project area and the City of Mendota Heights.

We recommend the following:

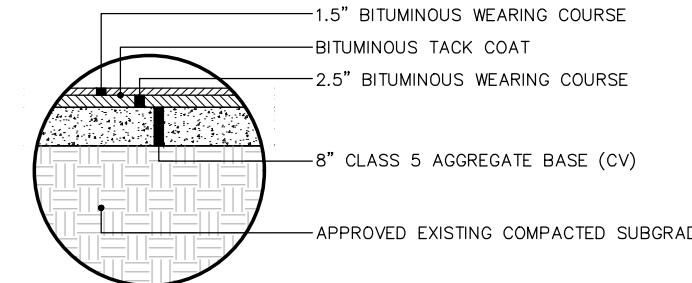
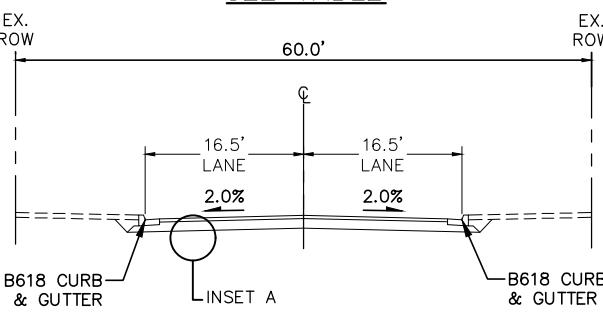
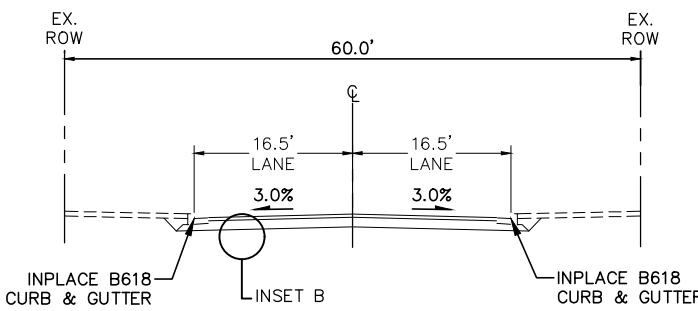
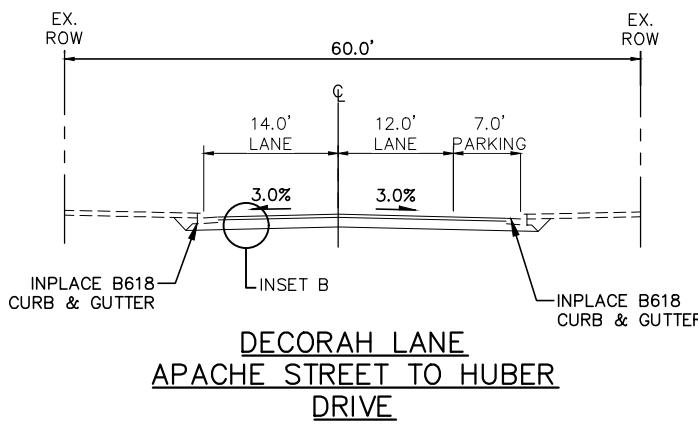
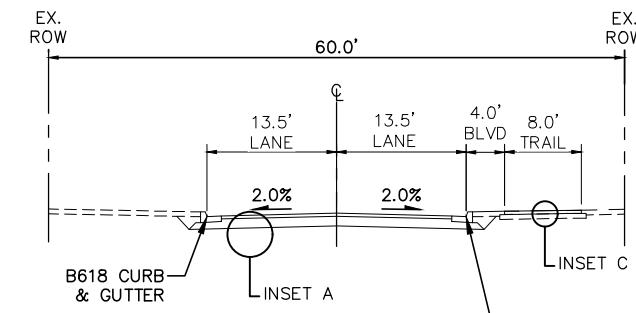
- A. The City Council orders and holds a public hearing on September 17, 2024.
- B. After receiving the appropriate staff reports, staff information, and public hearing input, the Council decides on the approval or rejection of the proposed improvements and orders approved projects.

APPENDICES

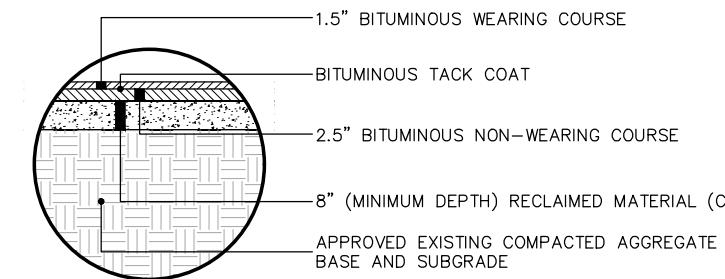
APPENDIX A – PROJECT LOCATION FIGURES



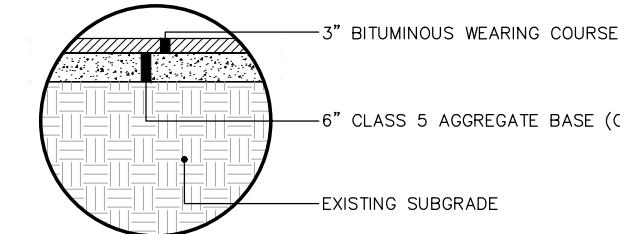
APPENDIX B – TYPICAL SECTIONS AND IMPROVEMENT MAPS



INSET A: FULL PAVEMENT RECONSTRUCTION

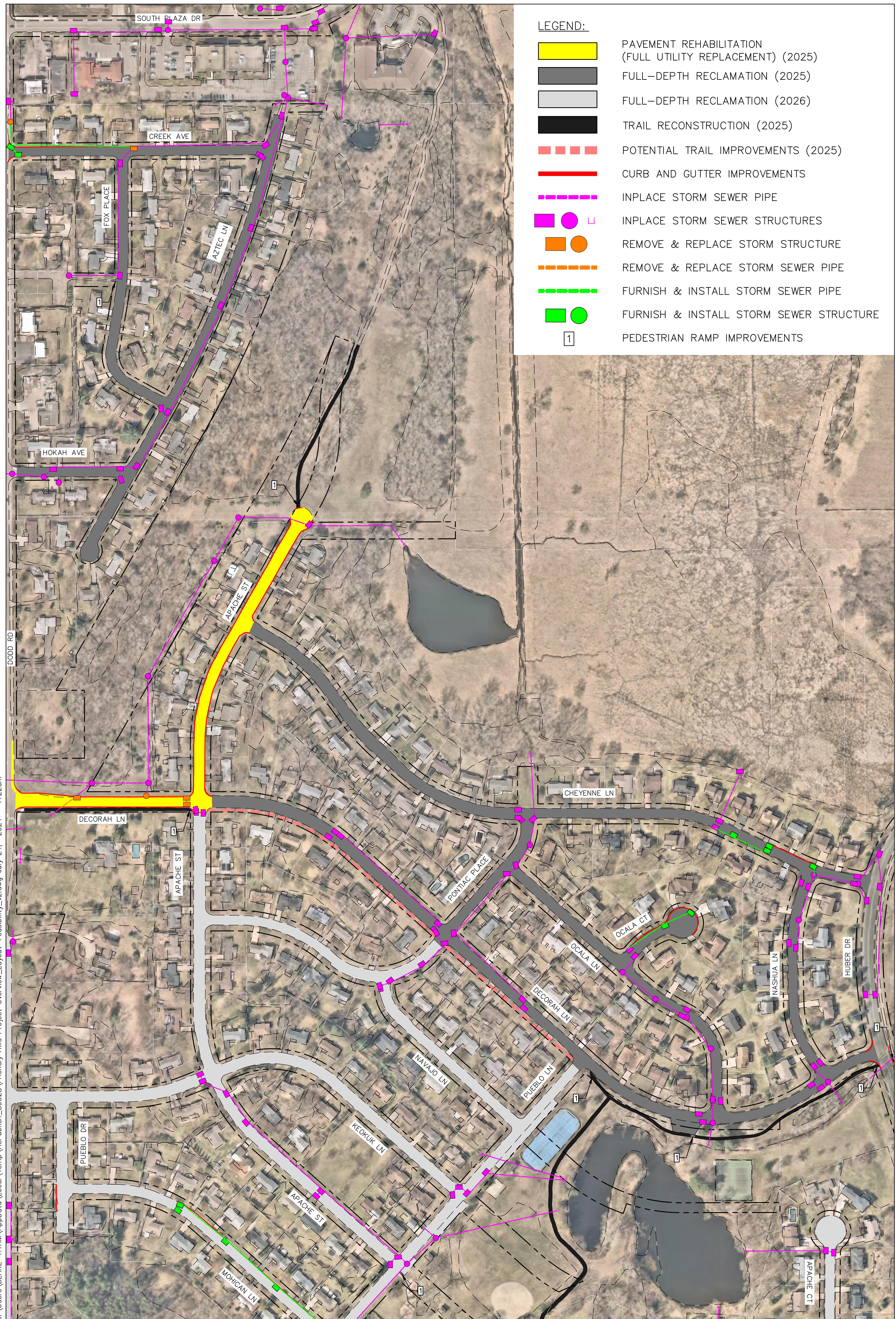


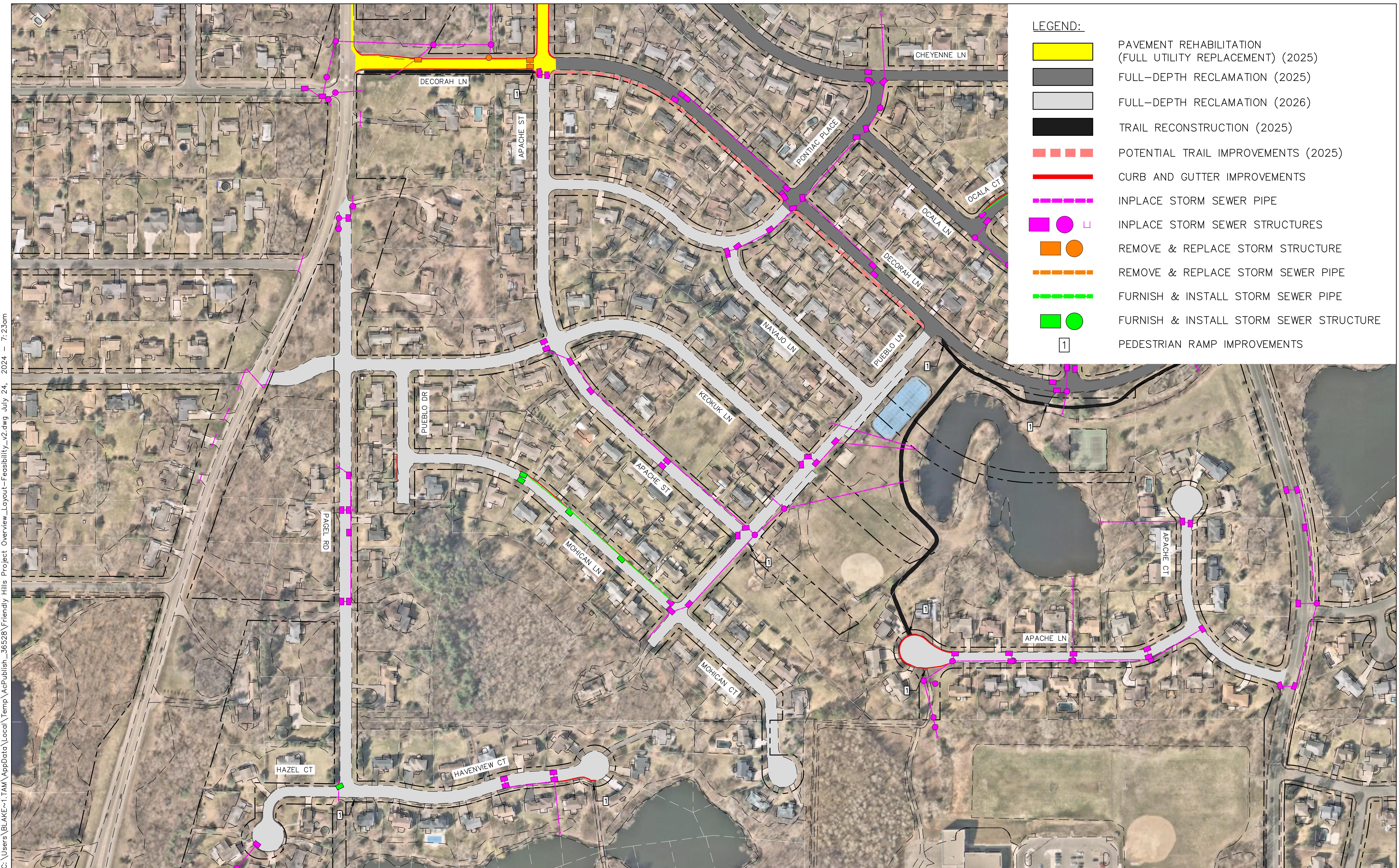
INSET B: FULL DEPTH PAVEMENT RECLAMATION

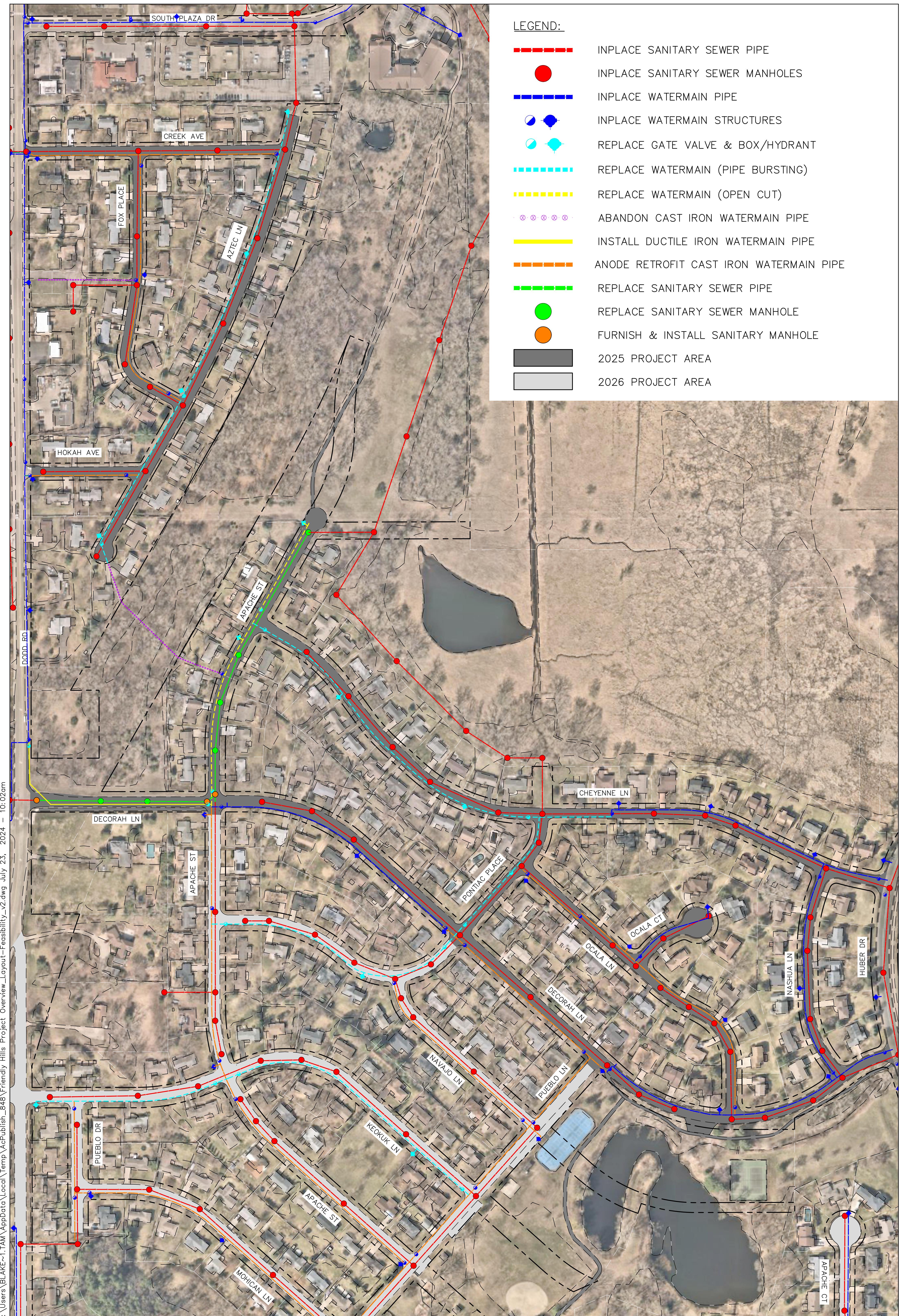


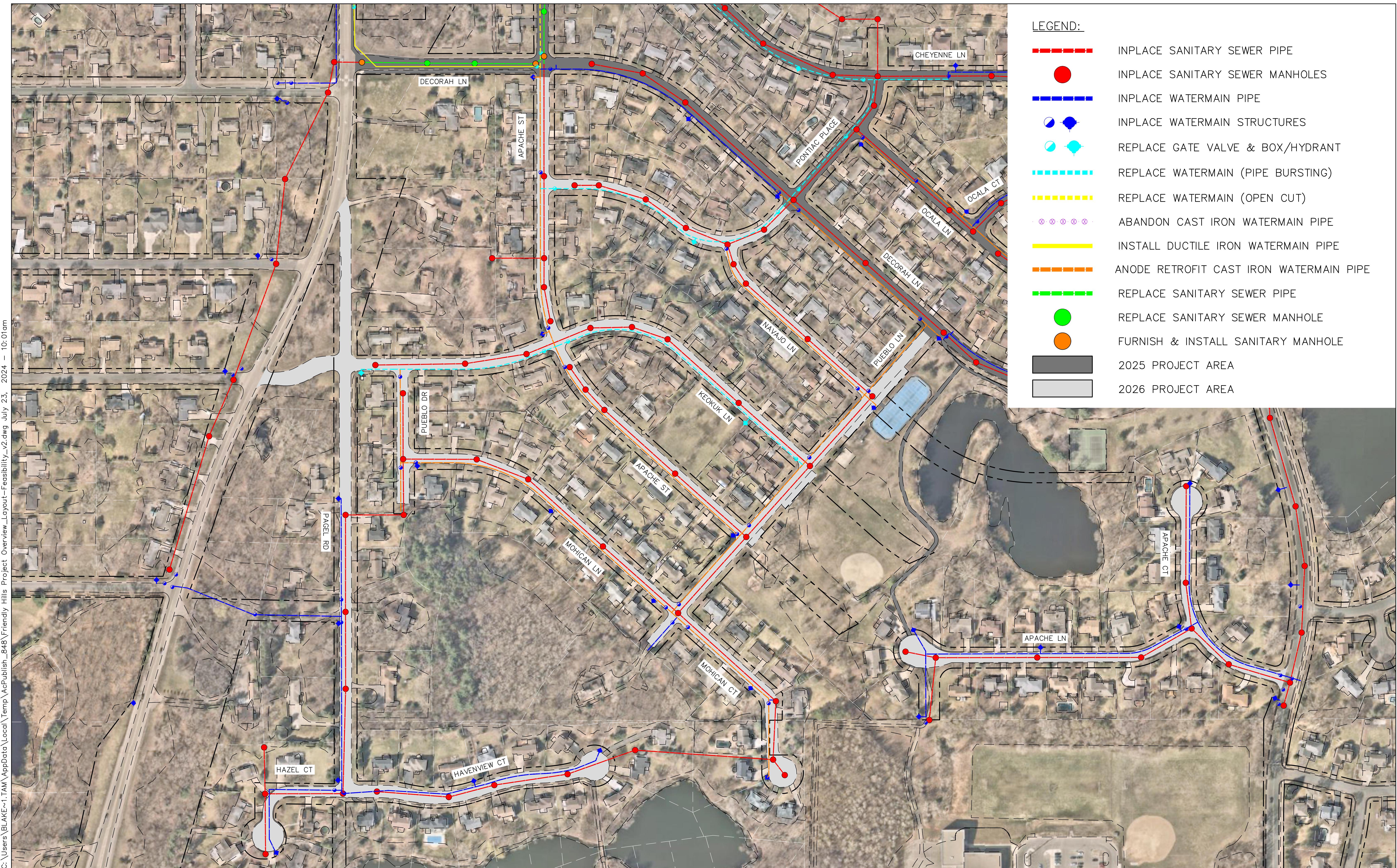
INSET C: 3" BITUMINOUS TRAIL

C.P. 202407 STREET WIDTHS			
STREET NAME	STREET WIDTH	FROM	TO
APACHE COURT	33	APACHE LANE	NORTHERN LIMITS
APACHE LANE	33	WESTERN LIMITS	HUBER DRIVE
APACHE STREET	33	NORTHERN LIMITS	PUEBLO LANE
AZTEC LANE	33	SOUTHERN LIMITS	NORTHERN LIMITS
CHEYENNE LANE	33	APACHE STREET	HUBER DRIVE
CREEK AVENUE	33	DODD ROAD	AZTEC LANE
DECORAH LANE	27	DODD ROAD	APACHE STREET
	33	APACHE STREET	HUBER DRIVE
FOX PLACE	33	AZTEC LANE	CREEK AVENUE
HAVENVIEW COURT	33	SOUTHERN LIMITS	PAGEL ROAD
HAZEL ROAD	33	PAGEL ROAD	EASTERN LIMITS
HOKAH AVENUE	33	DODD ROAD	AZTEC LANE
	33	PAGEL ROAD	PUEBLO LANE
KEOKUK LANE	44	DODD ROAD	PAGEL ROAD
MOHICAN COURT	33	PUEBLO LANE	EAST END
MOHICAN LANE	33	PUEBLO DRIVE	PUEBLO LANE
NASHUA LANE	33	CHEYENNE LANE	DECORAH LANE
NAVAJO LANE	33	PONTIAC PLACE	PUEBLO LANE
OCALA COURT	33	OCALA LANE	EASTERN LIMITS
OCALA LANE	33	PONTIAC PLACE	DECORAH LANE
PAGEL ROAD	33	HAVENVIEW COURT	DODD ROAD
PONTIAC PLACE	33	APACHE STREET	CHEYENNE LANE
PUEBLO DRIVE	33	KEOKUK LANE	SOUTHERN LIMITS
PUEBLO LANE	33	MOHICAN LANE	DECORAH LANE









APPENDIX C – GEOTECHNICAL INVESTIGATION

Revised Geotechnical Evaluation Report

Friendly Hills Neighborhood Improvements
Multiple Streets
Mendota Heights, Minnesota

Prepared for

Kimley-Horn and Associates, Inc.

Professional 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.


Joshua L. Kirk, PE
Director, Senior Engineer
License Number: 45005
July 29, 2024





The Science You Build On.

Braun Intertec Corporation
11001 Hampshire Avenue S
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

July 29, 2024

Project B2402483

Luke Moren, PE
Kimley-Horn and Associates, Inc.
14800 Galaxie Avenue, Suite 200
Apple Valley, MN 55124

Re: Revised Geotechnical Evaluation
Friendly Hills Neighborhood Improvements
Multiple Streets
Mendota Heights, Minnesota

Dear Mr. Moren:

We are pleased to present this Revised Geotechnical Evaluation Report for the Friendly Hills Neighborhood Improvements in Mendota Heights, Minnesota.

Thank you for making Braun Intertec your geotechnical consultant for this project. If you have questions about this report, or if there are other services that we can provide in support of our work to date, please contact Zach Semlak at 651.788.5071 (zsemlak@braunintertec.com) or Josh Kirk at 952.995.2222 (jkirk@braunintertec.com).

Sincerely,

BRAUN INTERTEC CORPORATION


Zachary T. Semlak
Staff Engineer


Joshua L. Kirk, PE
Director, Senior Engineer

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Appendix

Soil Boring Location Sketch

Log of Boring Sheets ST-1 through ST-34 (34 pages)

Descriptive Terminology of Soil

State Aid 10-Ton ESAL Traffic Forecast Calculator Results

MnPAVE-Flexible Results

Table A – Pavement Sections

A. Introduction

A.1. Project Description

This Revised Geotechnical Evaluation Report addresses the proposed design and construction of the Friendly Hills Neighborhood Improvements project in Mendota Heights, Minnesota. The project is proposed to include utility replacements (watermain and storm sewer), full depth reclamation (FDR) of pavements and FDR with watermain bursting, for the streets referenced in Figure 1. Table 1 provides a brief summary of the project details.

Table 1. Project Description of Friendly Hills Neighborhood

Project Component	Description	Source
Pavement type	Bituminous	Kimley-Horn and Associates, Inc. (KHA)
Pavement rehabilitation method	Full-Depth Reclamation (FDR)	KHA
Pavement loads	Decorah Lane: 152,000 Bituminous ESALs (BESALs)*	MnDOT traffic mapping data and State Aid ESAL Calculator. Assumed most recent 2018 count for design with a growth rate of 0.5 percent based on declining historical AADTs.
	Local Residential Streets: ≤150,000 BESALs*	Assumed
Grade changes	Street grades will be within 1 foot of existing.	Assumed
Utilities	Stormwater pipe with invert elevations up to 20 feet and watermain pipes with invert elevations up to 8 feet below grade.	KHA
Trail	Replacing the existing Friendly Hills Park trail with new bituminous	City of Mendota Heights (City)

*Equivalent 18,000-lb single axle loads based on 20-year design.

The figure below shows an illustration of the proposed streets to be rehabilitated.

Figure 1. Proposed Rehabilitation Methods

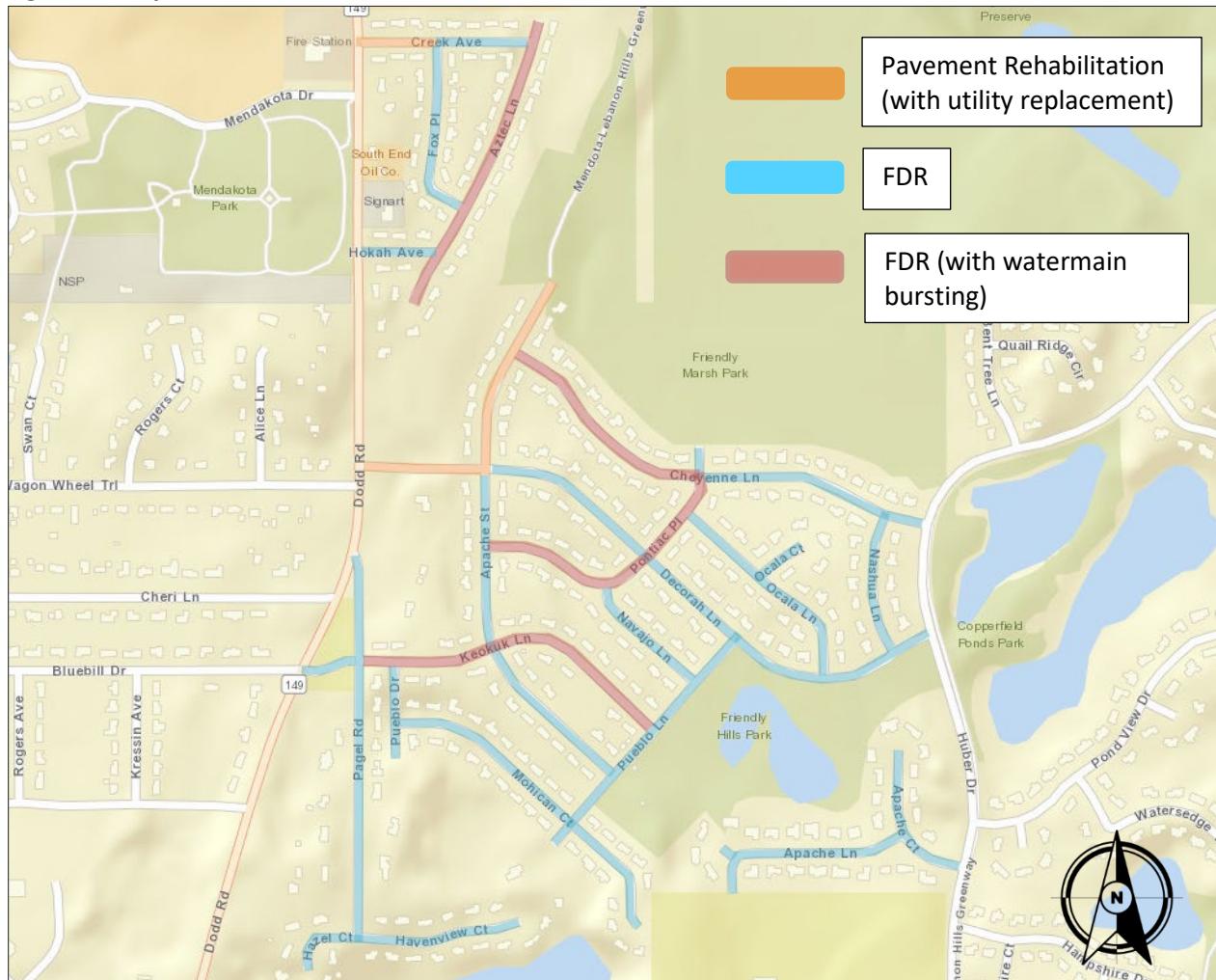


Figure annotated and extracted from Enterprise MnDOT Mapping Application (EMMA).

We have described our understanding of the proposed construction and site to the extent others reported it to us. Depending on the extent of available information, we may have made assumptions based on our experience with similar projects. If we have not correctly recorded or interpreted the project details, the project team should notify us. New or changed information could require additional evaluation, analyses and/or recommendations.

A.2. Site Conditions

Currently, the project site exists as a residential neighborhood with paved bituminous roads, with the project area being bounded by Dodd Road to the west, Creek Avenue to the North, Huber Drive to the east and Friendly Hills Middle School to the south. Current grades range from about 842 feet at Boring ST-14 to about 887 feet at Boring ST-27, with general site grades sloping downward from the north to the south.

A.3. Purpose

The purpose of our geotechnical evaluation was to characterize subsurface geologic conditions at selected exploration locations, evaluate their impact on the project, and provide geotechnical recommendations for the design and construction of the proposed street and utility improvements.

A.4. Background Information and Reference Documents

We reviewed the following information:

- Request for proposal from KHA for the Friendly Hills Neighborhood scope of work in Mendota Heights, Minnesota.
- Geologic map titled M-178, Surficial Geology of the Twin Cities Metropolitan Area, Minnesota prepared by the Minnesota Geological Survey, dated 2007.
- Map Imagery collected from Enterprise MnDOT Mapping Application (EMMA),
<https://dotapp9.dot.state.mn.us/emma/>.
- Communications with KHA and SPRWS regarding locations of soil corrosion testing.

A.5. Scope of Services

We performed our scope of services for the project in accordance with our Proposal for Geotechnical Evaluation (QTB190283). This proposal included the geotechnical evaluation along with construction materials testing for the Friendly Hills Neighborhood project once the project goes to construction. The

following list describes the geotechnical tasks completed for the Friendly Hills Neighborhood Improvements project in accordance with our authorized scope of services.

- Reviewing the background information and reference documents previously cited.
- Staking and coordinating the clearing of exploration locations of underground utilities. We selected and we staked the new exploration locations. We acquired the surface elevations and locations with GPS technology using the State of Minnesota's permanent GPS base station network. The Soil Boring Location Sketch included in the Appendix shows the approximate locations of the borings.
- Performing 30 standard penetration test (SPT) borings, denoted as ST-1 to ST-30, to nominal depths of 10 to 24 1/2 feet below existing grade surface. Of note, Borings ST-13 and ST-21 were extended beyond our proposed soil boring depth, to a depth of 16 feet and 13 1/2 feet, respectively. Additional borings were requested once the initial field work was completed. Four additional SPT borings were performed, denoted as ST-31 to ST-34 to nominal depths of 10 feet below existing grade surface.
- Performing laboratory testing on select samples to aid in soil classification and engineering analysis.
- Preparing this report containing a boring location sketch, logs of soil borings, a summary of the soils encountered, results of laboratory tests, and recommendations for utility structure and pavement subgrade preparation and the design and construction of utilities and pavements (including an estimated R-value).

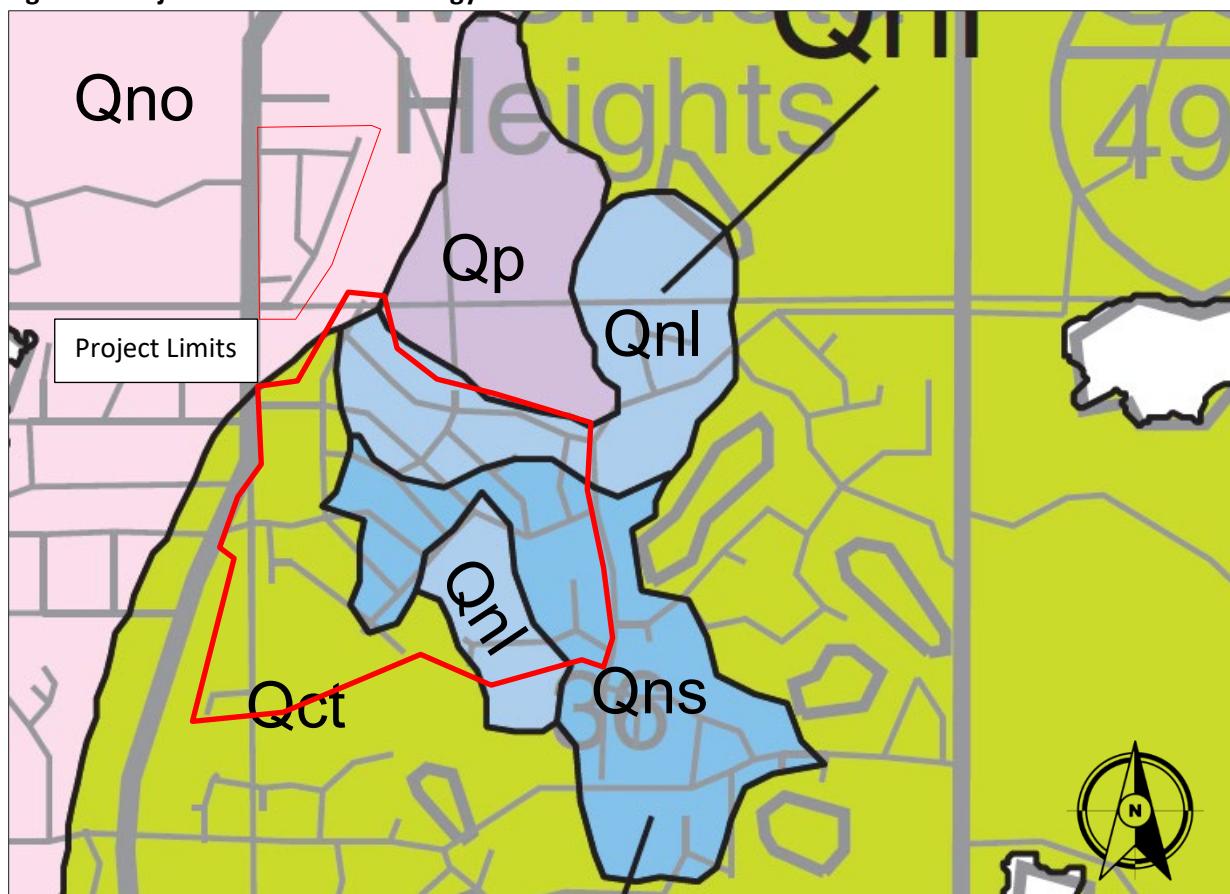
Our scope of services did not include environmental services or testing and our geotechnical personnel performing this evaluation are not trained to provide environmental services or testing. We can provide environmental services or testing at your request.

B. Results

B.1. Geologic Overview

A review of Map M178, surficial geology of the Twin Cities Metropolitan Area indicates the project area is generally underlain by sand and gravelly sand (map unit "Qno"), thin beds of silty, fine-grained sand to gravelly sand (map unit "Qnl"), and silty sand with minor interbeds of silt and medium-grained sand (map unit "Qns"). There is a portion that is north of the project area noted on the geologic map, which indicates material underlain with organic deposits.

Figure 2. Project Area Surficial Geology



We based the geologic origins used in this report on the soil types, laboratory testing, and available common knowledge of the geological history of the site. Because of the complex depositional history, geologic origins can be difficult to ascertain.

B.2. Pavement Results

For pavement section thicknesses at each boring location, refer to Table A in the Appendix.

B.3. Boring Results

Table 2 provides a summary of the soil boring results, in the general order we encountered the strata. Please refer to the Log of Boring sheets in the Appendix for additional details. The Descriptive Terminology sheet in the Appendix include definitions of abbreviations used in Table 2.

Table 2. Subsurface Profile Summary

Strata	Soil Type - ASTM Classification	Range of N- values	Commentary and Details
Pavement section	---	---	<ul style="list-style-type: none">Overall thickness ranges from 6 to 21 1/2 inches.Bituminous thickness 3 1/2 to 7 inches.Apparent aggregate base is 2 to 16 inches.
Fill	SP-SM, SM, SC, CL	4 to 63	<ul style="list-style-type: none">Extended to depths of about 7 feet to 13 1/2 feet below existing grade (boring termination depth).Occasional layers of slightly organic soils.Variable amounts of gravel; may contain cobbles and boulders.Moisture condition generally moist.
Swamp deposits	OL	5	<ul style="list-style-type: none">Encountered at Boring ST-13 only.Black in color.Encountered at a depth of about 9 1/2 feet to 12 feet below existing grade.
Alluvial	ML	15 to 24	<ul style="list-style-type: none">Encountered only in Borings ST-8, ST-9, ST-10, and ST-11.Moisture condition generally moist to wet.
Glacial deposits	SP, SP-SM, SM	6 to 32	<ul style="list-style-type: none">Intermixed layers of glacial outwash and till.N-values generally increased with depth.Variable amounts of gravel; may contain cobbles and boulders.
	SC, CL	14 to 30	<ul style="list-style-type: none">Moisture condition generally moist with occasional areas of wet conditions (specifically Borings ST-10 and ST-11 at depths below 20 feet and Borings ST-33 and ST-34 at depths below 9 feet from existing grade).

We did not perform gradation analysis on the apparent aggregate base material encountered as part of the pavement section, in accordance with our scope of work. Therefore, we cannot conclusively determine if the encountered material satisfies a particular specification.

For simplicity in this report, we define fill to mean existing, uncontrolled or undocumented.

B.4. Groundwater

As the auger was advanced during drilling, we encountered groundwater at Borings ST-10, ST-11, ST-13, ST-33 and ST-34. At the time of our observation, the groundwater surface elevation appeared to range from about 833 1/2 feet to about 846 feet. The soil borings indicated a layered soil profile that is conducive for encountering perched water conditions.

If the project team identifies a need for more accurate determination of groundwater depth on site, we can install piezometers and complete a groundwater monitoring program. Project planning should anticipate seasonal and annual fluctuations of groundwater.

B.5. Laboratory Test Results

We performed various laboratory tests on select soil samples to aid us in our evaluation. The Log of Boring sheets attached in the Appendix presents the results.

B.5.a. Moisture Content, P200 and Organic Content

Table 3 provides the range of results for the moisture contents, the organic content tests and percent passing the #200 sieve.

Table 3. Laboratory Test Summary*

Laboratory Test	Range of Results	Comments
Moisture content (MC) tests, % (per ASTM D2216)	Cohesionless soils: 3 to 23 Cohesive soils: 7 to 22 Organic soils: 46	Coarse-grained soils were generally dry to near the soils probable optimum moisture content. Fine-grained soils were generally moist and considered near to the soils probable optimum moisture content.
Organic content (OC) tests, % (per ASTM D2974)	10	Organic as classified by MnDOT terminology.
Percent of particles passing the #200 Sieve, % (per ASTM D1140)	2 to 70	USCS Classifications: SP, SP-SM, SM, ML

*Abbreviations defined in the attached Descriptive Terminology sheets, in the Appendix.

B.5.b. Corrosivity

Results of the laboratory tests for corrosivity including sulfides, pH, oxidation/reduction potential, and laboratory soil resistivity are presented in Table 4. These results were provided by Project X Corrosion Engineering from the field collected samples we provided them.

Table 4. Corrosivity Test Results

Location	Sample Depth (feet)	Moisture Content (%)	Sulfides (ppm)	pH	Oxidation / Reduction Potential (mV)	Resistivity - As Received (Ohm-cm)	Resistivity - Minimum (Ohm-cm)	Soil-test Evaluation (Points)
ST-1	7 1/2	9	0.5	6.7	185	8,710	6,030	3
ST-6		12	0.3	7.5	131	14,070	7,370	2
ST-10		12	ND*	7.0	136	1,065	840	11
ST-12		9	0.8	8.8	119	3,900	3,150	7
ST-16		3	0.1	7.3	147	41,540	5,494	2
ST-19		22	0.6	7.5	118	1,608	1,474	12
ST-20		14	1.6	7.0	117	3,752	2,613	5
ST-22		19	1.1	6.6	132	2,550	2,250	6
ST-28		10	0.8	6.5	115	3,015	1,876	9
ST-29		16	1.1	6.7	121	1,608	1,474	12

*ND – Not detected (value of zero).

The ANSI/AWWA C105/A21.5 (Appendix A) standard uses a numerical point system for corrosion evaluation of soils in contact with iron pipe. Based on the system and the results of the corrosion testing performed, the tested soils at this site have a corrosivity value range of about 2 to about 12. A value of 10 is the threshold for corrosion potential, indicating that corrosion protection of iron materials by this standard is required for the areas around Borings ST-10, ST-19 and ST-29, specifically.

If there are locations outside of these requested testing locations for installation of utilities, additional testing may be required to determine the soils corrosivity.

C. Recommendations

C.1. Design and Construction Discussion

The recommendations provided herein are based on the information provided to us at the time of this report. When information was not available, we made several assumptions that we note throughout the report. As the project progresses through final design or elements of the project are adjusted, we should revisit our recommendations.

References to the MnDOT Specification in this report are to MnDOT's Standard Specification for Construction, 2020 edition.

C.1.a. Proposed Rehabilitation Methods

Based on our understanding of proposed locations to be rehabilitated and based on our soil borings obtained for the project, the current proposed rehabilitation methods for each street are provided in Table 5.

Table 5. Proposed Rehabilitation Approach

Rehabilitation Method	Location
Pavement Rehabilitation with proposed utility replacements	<ul style="list-style-type: none">▪ Creek Avenue (partial)▪ Decorah Lane (partial)▪ Apache Street (partial)
Full-Depth Reclamation (FDR)	<ul style="list-style-type: none">▪ Creek Avenue (partial)▪ Fox Place▪ Hokah Avenue▪ Cheyenne Lane (partial)▪ Ocala Lane▪ Ocala Court▪ Decorah Lane (partial)▪ Navajo Lane▪ Apache Street (partial)▪ Mohican Court▪ Pueblo Drive▪ Pagel Road▪ Keokuk Lane (partial)▪ Hazel Court▪ Havenview Court▪ Apache Lane▪ Apache Court▪ Nashua Lane▪ Pueblo Lane
FDR (with watermain pipe bursting)	<ul style="list-style-type: none">▪ Aztec Lane▪ Cheyenne Lane (partial)▪ Pontiac Place▪ Keokuk Lane

C.1.b. Pavement Rehabilitation

The subgrade material encountered beneath the pavement section in proposed utility replacement areas generally appear suitable to support the proposed pavement rehabilitation.

C.1.c. Full-Depth Reclamation

We understand the streets being considered for FDR are noted in Table 5. We have provided general recommendations in Section C.4.b.

We also understand in areas highlighted in red (see Figure 1), there are areas where watermain pipe bursting is proposed in portions of the FDR. We have provided general subgrade recommendations in Section C.2.e.

C.1.d. Reuse of Pavement Materials

From a materials perspective, reclamation of the bituminous pavement materials for reuse as recycled aggregate base or as a component to new pavements is acceptable assuming the produced products meet the applicable project specifications, and these practices are acceptable to the City. Prior to reuse, the project should implement thorough quality control practices, including frequent sieve analyses, asphalt contents and other tests, to achieve desirable characteristics for any reclaimed material processed on site.

C.1.e. Reuse of On-Site Soils

Much of the existing fill and native soils encountered in the borings appear suitable for reuse as engineered fill, although some moisture conditioning (drying or wetting of materials) and removal of unsuitable materials may be required. However, soils encountered noted as organic (like Boring ST-13) may need to be subcut if encountered within the upper 3 feet of the pavement subgrade or at utility invert elevations.

Topsoil and soils containing organics should not be reused as pavement subgrade or utility trench backfill anywhere on the project. Topsoil or organic soils can be stockpiled for use as a component in topsoil dressing, pond side slopes, or in other areas where loads are not supported. Any materials to be reused as engineered fill should be tested and approved by the engineer prior to reuse.

C.1.f. Groundwater Control

Excavations for utility trenches at depth have the potential to encounter groundwater table about elevations 833 1/2 to 835 feet. Areas in clayey and fine-grained soils should anticipate having temporary sumps and pumps to remove accumulated groundwater during construction activities. Groundwater or

perched groundwater encountered, should be removed from the excavations to facilitate proper fill placement and compaction of backfill.

Sumps and pumps would likely be suitable for short-term groundwater control in shallow excavations or trenches near or slightly below groundwater levels or within excavations terminating in clayey and fine-grained soils. For excavations further below observed groundwater levels or in areas where cleaner sands (SP, SP-SM) are encountered, the excavations would likely require more extensive dewatering methods, such as well points, and the contractor should provide a dewatering plan for review.

C.1.g. Construction Disturbance

The contractor should note the encountered on-site silty and clayey soils are highly susceptible to disturbance, due to repeated vehicle traffic. Disturbances of these soils may cause areas that were previously prepared, or that were suitable for pavement or structure support, to become unstable and require moisture conditioning and compaction. Subcutting and replacing the disturbed material with crushed, coarse gravel, free of fines is also an alternative. The contractor should use means and methods to limit disturbance to these types of soils.

C.1.h. Impacts on Adjacent Utility Lines

Excavations to remove and install the utilities may be wide due to sloughing of the sandy soils. The contractor should be aware of these conditions and take precautions to support any in-place utilities throughout construction.

C.1.i. Vibrations during Construction

Construction and backfill operations may induce vibrations on neighboring structures. Excessive ground vibration levels can cause cosmetic damage to structures, or in rare cases structural damage. We recommend precondition surveys of adjacent structures as well as monitoring of ground vibrations during construction.

C.2. Utility Installation

The following sections provide our recommendations for the replacement of utilities, where applicable. Please see the sections below for more details.

C.2.a. Utility Subgrade Stabilization

We anticipate the soils at typical invert elevations for watermain and storm sewer will be suitable for utility support. However, if construction encounters unfavorable conditions such as slightly organic to

organic soils, such as the organic soils noted in Boring ST-13, soft or loose soils or perched water at invert grades, the conditions may require some additional subcutting and replacement with sand or crushed rock to prepare a proper subgrade for pipe support. If crushed rock is used as pipe bedding, we recommend wrapping the aggregate in geotextile fabric to prevent the migration of fine-grained materials into the voids of the aggregate.

C.2.b. Excavation Oversizing

When removing unsuitable materials below utilities, we recommend the excavation extend laterally a minimum 1-foot beyond the edge of the pipe and then outward and downward at a slope of 1H:1V (horizontal:vertical) or flatter to a maximum depth of 3 feet below invert elevation. If unsuitable soils are still present, we recommend a geotechnical engineer observe the soils and provide additional recommendations.

C.2.c. Excavated Slopes

Based on the borings, we anticipate the majority of onsite soils in excavations will consist of a mix of cohesive and granular soils. These soils are typically considered Type B or C Soil under OSHA (Occupational Safety and Health Administration) guidelines. For this project we recommend the excavations be assumed to be performed within Type C soil. OSHA guidelines indicate unsupported excavations in Type C soils should have a gradient no steeper than 1 1/2H:1V. Slopes constructed in this manner may still exhibit surface sloughing. OSHA requires an engineer to evaluate slopes or excavations over 20 feet in depth.

An OSHA-approved qualified person should review the soil classification in the field. Excavations must comply with the requirements of OSHA 29 CFR, Part 1926, Subpart P, "Excavations and Trenches." This document states excavation safety is the responsibility of the contractor. The project specifications should reference these OSHA requirements.

C.2.d. Corrosion Potential

Refer to Section B.4.b for results of performed corrosivity testing. The results of our testing indicated that corrosion protection of iron materials is highly recommended for the areas around Borings ST-10, ST-19 and ST-29.

Areas outside of the tested locations, based on our experience, the clay soils encountered by the borings are moderately corrosive to metallic conduits, but only marginally corrosive to concrete. We recommend specifying non-corrosive materials or providing corrosion protection, unless project planning chooses to perform additional tests to demonstrate the soils are not corrosive.

C.2.e. Utility Trench Backfill/Subgrade Fill Materials and Compaction

Most onsite soils appear suitable for reuse as engineered fill within pavement subgrades and utility trenches, although some moisture conditioning of clays may be required (drying or wetting of materials). If imported material is needed, we recommend importing soils of a similar composition to those in-place to reduce the potential for water to become perched between differing soil types. Importing different soil types (clay in sand areas and vice versa) for backfill may create impermeable lenses that could trap water and soften the soils over time.

We recommend that materials used as utility trench backfill and subgrade fill meet the requirements of the MnDOT specifications presented below in Table 6. We recommend spreading engineered fill in loose lifts of approximately 8 to 12 inches thick. We recommend performing density tests in engineered fill to evaluate if the contractors are effectively compacting the soil and meeting project requirements.

Topsoil and soils with organic contents of greater than 5 percent by weight should not be reused as pavement subgrade or utility trench backfill within the roadway core on the project. Organic soils can be stockpiled for use as a component in topsoil dressing, side slopes or in other areas where loads are not supported.

Any materials to be reused as engineered fill should be tested and approved by the engineer prior to reuse. The project documents should not allow the contractor to use frozen material as engineered fill or to place engineered fill on frozen material. Frost should not penetrate under road core or structures during construction.

Table 6. Fill Materials and Compaction Specifications

Material	Material Specification	Compaction Specification
Embankment fill, Utility trench backfill	Common Embankment, MnDOT 2106.2B.1	MnDOT 2106.3.G.1
Below landscaped surfaces, where subsidence is not a concern	Non-Structural Embankment, MnDOT 2106.2B.8	MnDOT 2106.3.G.2

C.3. Subgrade Preparation

C.3.a. Pavement Subgrade Preparation

We recommend the following steps for pavement subgrade preparation for the Friendly Hills Neighborhood areas performing utility installation work (Reference Table 5), understanding the roadway

improvements will generally match existing grades. Note that project planning may need to require additional subcuts to limit frost heave or remove unsuitable materials.

1. Strip existing structures, pavements, and aggregate base section from the area (if still in-place).
2. Have a geotechnical representative observe the excavated subgrade to evaluate if additional subgrade improvements are necessary.
3. Surface compact to at least 100 percent of MnDOT Standard Proctor density.
4. Place pavement engineered fill to grade where required and compact in accordance with Section C.2.e. to bottom of pavement section.
5. Test roll the pavement subgrade as described in Section C.3.b. It may be necessary to place a portion of the aggregate base to facilitate truck traffic.

Note, we recommend sloping subgrade soils to promote drainage and removal of accumulated water.

C.3.b. Pavement Subgrade Test roll

After preparing the subgrade as described above and again after placement of the aggregate base, we recommend test rolling the subgrade soils with a fully loaded tandem-axle truck while observed by a geotechnical representative. Areas that fail the test roll likely indicate soft or weak soils that will require additional correction work to support pavements. Test rolls should proceed per MnDOT Specification 2111.

The contractor should correct areas that display excessive yielding or rutting during the test roll, as determined by the geotechnical representative. Possible options for subgrade correction include moisture conditioning and recompaction, and/or subcutting and replacement with soil or crushed aggregate.

C.4. Pavements

C.4.a. Utility Replacement Areas

Our scope of services for this project did not include laboratory tests on subgrade soils to determine an R-value for pavement design. Based on our experience with soils similar to those that are anticipated at the pavement subgrade elevation, we recommend pavement design assume an R-value of 15. Note that

this value represents the most conservative case, designing for the clayey subgrade soils noted in the borings. If removal of clayey and silty soils are performed, this value could be re-evaluated.

Table 7 provides proposed bituminous pavement sections. Based on our assumed R-value and assumed traffic counts (where none present), the provided section appears to meet or exceed the minimum requirements for the roadways based on MnPave-Flexible design and its associated monte carlo simulation.

Table 7. Proposed Bituminous Pavement Section

Layer	Thickness (inches)	Material	Material Specification
Bituminous wear course	1 1/2	SPWEA340C	MnDOT 2360
Bituminous wear course	2 1/2	SPWEA340C	MnDOT 2360
Aggregate base	8	Class 5*	MnDOT 2211
Approved subgrade	---	---	---

*FDR can be utilized provided it meets the Class 5 specification provided.

Where clay subgrade soils are encountered based on the borings performed, we recommend installing perforated drainpipes throughout pavement areas at low points, around catch basins, and behind curb in landscaped areas. We also recommend installing drainpipes along pavement and exterior slab edges where exterior grades promote drainage toward those edge areas. The contractor should place drainpipes in small trenches, extended at least 8 inches below the granular subbase layer, or below the aggregate base material where no subbase is present.

C.4.b. Full-Depth Reclamation

For the proposed streets to be rehabilitated via FDR processes (Reference Table 5), reuse of pavement materials by reclamation, we recommend a 9-inch FDR. Based on the measurements from the borings, we anticipate near Borings ST-3, ST-14, ST-22, ST-26, ST-29 and ST-31 will encounter granular silty sand soils within the 9-inch FDR.

For streets encountering thicker pavement sections, such as, Creek Ave, part of Fox Pl (near Boring ST-4), part of Aztec Ln (near Boring ST-7), Ocala Ln, Pueblo Dr and Apache Ct, we recommend a 12-inch FDR.

Refer to Table A in the Appendix for locations with recommended 12-inch FDR.

If encountered and/or where these areas where subgrade may be penetrated due to a thinner pavement section, we recommend reducing the mill depth to the top of subgrade and excavating to the design depth of the pavement section.

We recommend implementing through quality control practices, including frequent sieve analyses, to achieve a desirable gradation of the reclaimed material. The gradation requirements of MnDOT Specification 2215 (Reclamation) or Specification 3138 (Aggregate for Surface and Base Courses) can be used for the aggregate base; the latter specification's controls on gradation and asphalt content are stricter and will generally be more difficult to meet. We suggest the contractor assume some contingency for importing clean, crushed rock that can be blended with the reclaimed material to improve the uniformity of the resulting gradation prior to reuse as an aggregate base.

C.4.b.1. Full-Depth Reclamation Preparation

For the streets being rehabilitated via FDR, we recommend the following steps for pavement reclamation preparation, understanding the new pavements will match existing grades.

1. Reclaim the pavement as recommended above, stockpile and/or redistribute excess reclaim material as necessary to construct the new pavement sections.
2. Once the roadway section is cut to grade, have a geotechnical engineer or their representative observe the top of reclaim material (and/or subgrade if material below reclaim becomes exposed or wet) to evaluate if additional improvements are necessary.

C.4.b.2. Full-Depth Reclamation Design Section

For the proposed FDR streets, the pavement should generally follow Table 8.

Table 8. Proposed Pavement Section

Material	Thickness (inches)	Designation	Material Specification
Bituminous wear course	1 1/2	SPWEA340C	MnDOT 2360
Bituminous wear course	2 1/2	SPWEA340C	MnDOT 2360
Aggregate base	8	---	MnDOT 2211 (FDR)
Aggregate base	Varies, expected to be 2 inches or less*	---	Residual aggregate base
Approved subgrade	---	---	---

*Boring ST-20 encountered a 21 1/2-inch pavement section and may be closer to 9 1/2 inches of residual aggregate base.

C.4.c. Bituminous Pavement Materials and Compaction

We recommend that the bituminous wear and non-wear courses meet the requirements of Specifications 2360.

We recommend compacting the aggregate base to meet the requirements of MnDOT Specification 2211.3.D.2.c (Penetration Index Method for the dynamic cone penetrometer [DCP]). We recommend compacting bituminous pavements to meet the requirements of MnDOT Specification 2360.3D.

C.4.d. Performance and Maintenance

We based the above pavement designs on a 20-year performance life for bituminous. This is the amount of time before we anticipate the pavement will require reconstruction. This performance life assumes routine maintenance, such as seal coating and crack sealing. The actual pavement life will vary depending on variations in weather, traffic conditions and maintenance.

Many conditions affect the overall performance of pavements. Some of these conditions include the environment, loading conditions and the level of ongoing maintenance. With regard to bituminous pavements in particular, it is common to have thermal cracking develop within the first few years of placement and continue throughout the life of the pavement. We recommend developing a regular maintenance plan for filling cracks in exterior slabs and pavements to lessen the potential impacts for cold weather distress due to frost heave or warm weather distress due to wetting and softening of the subgrade.

C.4.e. Miscellaneous Bituminous Recommendations

When placing new pavement next to in-place pavement, we recommend providing a full-depth sawcut to ensure a uniform joint.

We recommend tack coat between all bituminous layers and prior to placing any bituminous mixtures on existing pavement in accordance with MnDOT Specification 2357.

D. Procedures

D.1. Penetration Test Borings

We drilled the penetration test borings with a truck-mounted core and auger drill equipped with hollow-stem auger. We performed the borings in general accordance with ASTM D6151 taking penetration test

samples at 2 1/2- or 5-foot intervals in general accordance to ASTM D1586. The boring logs show the actual sample intervals and corresponding depths.

We sealed penetration test boreholes meeting the Minnesota Department of Health (MDH) Environmental Borehole criteria with an MDH-approved grout.

D.2. Exploration Logs

D.2.a. Log of Boring Sheets

The Appendix includes Log of Boring sheets for our penetration test borings. The logs identify and describe the penetrated geologic materials, and present the results of penetration resistance performed. The logs also present the results of laboratory tests performed on penetration test samples, and groundwater measurements.

We inferred strata boundaries from changes in the penetration test samples and the auger cuttings. Because we did not perform continuous sampling, the strata boundary depths are only approximate. The boundary depths likely vary away from the boring locations, and the boundaries themselves may occur as gradual rather than abrupt transitions.

D.2.b. Geologic Origins

We assigned geologic origins to the materials shown on the logs and referenced within this report, based on: (1) a review of the background information and reference documents cited above, (2) visual classification of the various geologic material samples retrieved during the course of our subsurface exploration, (3) penetration resistance performed for the project, (4) laboratory test results, and (5) available common knowledge of the geologic processes and environments that have impacted the site and surrounding area in the past.

D.3. Material Classification and Testing

D.3.a. Visual and Manual Classification

We visually and manually classified the geologic materials encountered based on ASTM D2488. When we performed laboratory classification tests, we used the results to classify the geologic materials in accordance with ASTM D2487. The Appendix includes a chart explaining the classification system we used.

D.3.b. Laboratory Testing

The exploration logs in the Appendix note most of the results of the laboratory tests performed on geologic material samples. The remaining laboratory test results follow the exploration logs. We performed the tests in general accordance with ASTM procedures.

D.4. Groundwater Measurements

The drillers checked for groundwater while advancing the penetration test borings, and again after auger withdrawal. We then filled the boreholes, as noted on the boring logs.

E. Qualifications

E.1. Variations in Subsurface Conditions

E.1.a. Material Strata

We developed our evaluation, analyses and recommendations from a limited amount of site and subsurface information. It is not standard engineering practice to retrieve material samples from exploration locations continuously with depth. Therefore, we must infer strata boundaries and thicknesses to some extent. Strata boundaries may also be gradual transitions, and project planning should expect the strata to vary in depth, elevation and thickness, away from the exploration locations.

Variations in subsurface conditions present between exploration locations may not be revealed until performing additional exploration work, or starting construction. If future activity for this project reveals any such variations, you should notify us so that we may reevaluate our recommendations. Such variations could increase construction costs, and we recommend including a contingency to accommodate them.

E.1.b. Groundwater Levels

We made groundwater measurements under the conditions reported herein and shown on the exploration logs, and interpreted in the text of this report. Note that the observation periods were relatively short, and project planning can expect groundwater levels to fluctuate in response to rainfall, flooding, irrigation, seasonal freezing and thawing, surface drainage modifications and other seasonal and annual factors.

E.2. Continuity of Professional Responsibility

E.2.a. Plan Review

We based this report on a limited amount of information, and we made a number of assumptions to help us develop our recommendations. We should be retained to review the geotechnical aspects of the designs and specifications. This review will allow us to evaluate whether we anticipated the design correctly, if any design changes affect the validity of our recommendations, and if the design and specifications correctly interpret and implement our recommendations.

E.2.b. Construction Observations and Testing

We recommend retaining us to perform the required observations and testing during construction as part of the ongoing geotechnical evaluation. This will allow us to correlate the subsurface conditions exposed during construction with those encountered by the borings and provide professional continuity from the design phase to the construction phase. If we do not perform observations and testing during construction, it becomes the responsibility of others to validate the assumption made during the preparation of this report and to accept the construction-related geotechnical engineer-of-record responsibilities.

E.3. Use of Report

This report is for the exclusive use of the addressed parties. Without written approval, we assume no responsibility to other parties regarding this report. Our evaluation, analyses and recommendations may not be appropriate for other parties or projects.

E.4. Standard of Care

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

Appendix



BRAUN
INTERTEC
The Science You Build On.

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Minneapolis, MN 55438
952.995.2000
braunintertec.com

Drawing Information

Project No:
B2402483

Drawing No:
Boring Location Sketch

Drawn By: ZS
Drawn Drawn: 3/26/2024
Checked By: ZTS
Last Modified: 6/27/2024

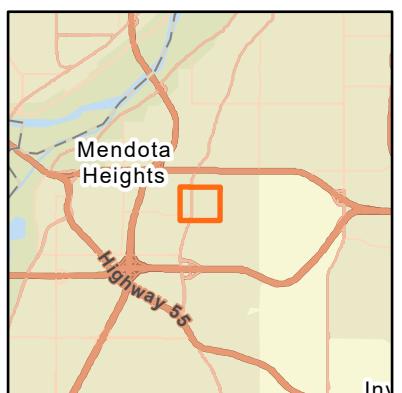
Project Information

Mendota Heights - Friendly Hills Neighborhood Improvements

Multiple Streets

Mendota Heights, Minnesota

Boring Location Sketch





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The Science You Build On.

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braunintertec.com

Drawing Information

Project No:
B2402483

Drawing No:
Boring Location Sketch

Drawn By: ZS
Drawn Drawn: 3/26/2024
Checked By: ZTS
Last Modified: 6/27/2024

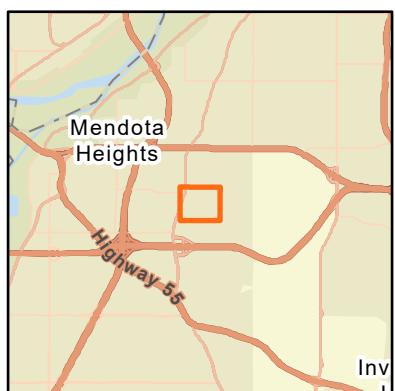
Project Information

Mendota Heights - Friendly Hills Neighborhood Improvements

Multiple Streets

Mendota Heights, Minnesota

Boring Location Sketch



See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-1	
				LOCATION: Captured with RTK GPS.	
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)	
				NORTHING: 248696.6 EASTING: 549515.2	
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00	
SURFACE ELEVATION:	870.3 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Overcast	
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %	
869.6		PAVEMENT, 4 inches of bituminous over 5 inches of apparent aggregate base		AU	
0.8		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, brown, moist <i>With Clayey Sand seams at 3 feet</i>		7-7-6 (13) 14"	
865.8				6-4-4 (8) 12"	
4.5		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, brown, moist	5	6	P200=3%
863.3				2-2-8 (10) 14"	
7.0		FILL: SILTY SAND (SM), fine-grained, brown, moist			
862.3					
8.0		POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, brown, moist, medium dense (GLACIAL OUTWASH)	10	6-8-11 (19) 16"	
859.3					
11.0		END OF BORING Boring then backfilled with auger cuttings			
				15	
				20	
				25	
				30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-2				
				LOCATION: Captured with RTK GPS.					
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)					
				NORTHING:	248700.4	EASTING:	550024.3		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/03/04	END DATE:	04/03/00		
SURFACE ELEVATION:	853.8 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING:	Bituminous		
WEATHER:	Clear								
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks		
853.3		PAVEMENT, 4 inches of bituminous over 2 inches of apparent aggregate base		AU					
0.5		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist <i>With Clayey Sand seams at 2 1/2 feet</i>		5-4-5 (9) 14"					
849.3				2-3-7 (10) 12"					
4.5		FILL: SANDY LEAN CLAY (CL), with Gravel, brown, moist	5						
846.8				9-9-12 (21) 14"					
7.0		POORLY GRADED SAND (SP), fine to medium-grained, with Gravel, brown, moist, medium dense (GLACIAL OUTWASH)		6-7-9 (16) 16"					
842.8									
11.0		END OF BORING Boring then backfilled with auger cuttings					Water not observed while drilling.		
				15					
				20					
				25					
				30					

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-3
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 248398.6 EASTING: 550016.5
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	856.0 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Wind
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
855.0		PAVEMENT, 4 1/2 inches of bituminous over 7 inches of apparent aggregate base		AU
1.0		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		3-5-13 (18) 6"
851.5				8
4.5		FILL: SANDY LEAN CLAY (CL), with Sand lenses, brown, moist	5	8-6-8 (14) 12"
		<i>With Silty Sand seams at 7 1/2 feet</i>		9-5-2 (7) 10"
846.5		FILL: CLAYEY SAND (SC), with Gravel, dark brown, moist	10	10-7-6 (13) 6"
9.5				
845.0				
11.0		END OF BORING		
		Boring then backfilled with auger cuttings		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			BORING: ST-4	
			LOCATION: See attached sketch	
			DATUM:	
			NORTHING: 04/03/04 EASTING: 04/03/00	
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	RIG: 7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous	WEATHER: Clear
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
1.0		PAVEMENT, 5 inches of bituminous over 7 inches of apparent aggregate base		AU
2.0		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		2-5-12 (17) 8"
		FILL: SANDY LEAN CLAY (CL), brown, moist <i>With SAND layer at 3 feet</i>		11
4.5				6-5-7 (12) 12"
		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist	5	3-4-5 (9) 14"
		<i>With SILTY SAND layer at 8 feet</i>	10	4-6-8 (14) 14"
11.0		END OF BORING Boring then backfilled with auger cuttings		15 20 25 30
				Water not observed while drilling.

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			BORING: ST-5	
			LOCATION: See attached sketch	
			DATUM:	
			NORTHING: 04/03/04 EASTING: 04/03/00	
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	RIG: 7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous	WEATHER: Overcast
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
0.8		PAVEMENT, 5 1/2 inches of bituminous over 5 inches of apparent aggregate base		AU
2.0		FILL: SILTY SAND (SM), fine to medium-grained, dark brown, moist		2-2-3 (5) 8"
		FILL: SANDY LEAN CLAY (CL), trace Gravel, brown, moist		2-3-6 (9) 12"
		With SAND layer at 5 feet	5	
7.0		POORLY GRADED SAND (SP), fine to medium-grained, with Gravel, brown, moist, medium dense (GLACIAL OUTWASH)		8-9-11 (20) 6"
11.0			10	8-9-12 (21) 14"
		END OF BORING		
		Boring then backfilled with auger cuttings		
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-6
				LOCATION: See attached sketch
				DATUM:
				NORTHING: EASTING:
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	RIG: 7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous	WEATHER: Clear
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
0.9		PAVEMENT, 3 1/2 inches of bituminous over 7 inches of apparent aggregate base		AU
2.0		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		2-3-4 (7) 12"
		FILL: SANDY LEAN CLAY (CL), brown, moist		
4.5				2-3-4 (7) 14"
		FILL: LEAN CLAY (CL), brown, moist	5	
7.0				
		POORLY GRADED SAND (SP), fine to medium-grained, brown, moist, medium dense (GLACIAL OUTWASH)		5-6-9 (15) 12"
11.0				25-10-9 (19) 12"
		END OF BORING		
		Boring then backfilled with auger cuttings		
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-7
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 248036.0 EASTING: 549855.4
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	859.5 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clear
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
858.5		PAVEMENT, 4 1/2 inches of bituminous over 7 1/2 inches of apparent aggregate base		AU 4-7-11 (18) 12"
1.0		FILL: CLAYEY SAND (SC), trace Gravel, dark brown, moist		6-29-25 (54) 6"
		With Silty Sand seams at 5 feet	5	7-7-9 (16) 16"
852.5				6-8-10 (18) 14"
7.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, dark brown, moist		
848.5				
11.0		END OF BORING Boring then backfilled with auger cuttings		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING: ST-8	
				LOCATION: See attached sketch	
				DATUM:	
				NORTHING:	EASTING:
DRILLER: C McClain		LOGGED BY: Z Semlak		START DATE: 04/03/04	END DATE: 04/03/00
SURFACE ELEVATION:		RIG: 7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous	WEATHER: Overcast
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf
0.8		PAVEMENT, 4 inches of bituminous over 6 inches of apparent aggregate base FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		AU 5-5-5 (10) 12"	4
4.5		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, brown, moist	5	4-5-7 (12) 14"	
7.5		SILTY SAND (SM), fine-grained, brown, moist, medium dense (GLACIAL TILL)	8	8-10-13 (23) 14"	7 P200=28%
9.5		SILT (ML), brown, moist, medium dense (ALLUVIUM)	10	8-11-8 (19) 16"	
11.0		END OF BORING Boring then backfilled with auger cuttings	15 20 25 30		Water not observed while drilling.

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-9
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 247553.6 EASTING: 549585.7
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/03/04 END DATE: 04/03/00
SURFACE ELEVATION:	875.2 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clear
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
874.3		PAVEMENT, 4 inches of bituminous over 5 1/2 inches of apparent aggregate base		AU 4-8-7 (15) 12"
0.8		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, brown, moist With Silty Sand seams at 5 feet	5	7-15-10 (25) 10"
868.2		FILL: CLAYEY SAND (SC), with Sand seams, brown, moist		12-3-7 (10) 12"
7.0				
865.7				
9.5				
864.2		SILT (ML), brown, moist, medium dense (ALLUVIUM)	10	5-6-9 (15) 14"
11.0		END OF BORING Boring then backfilled with auger cuttings		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

**Project Number B2402483
Geotechnical Evaluation
Friendly Hills Neighborhood Improvements
Multiple Streets
Mendota Heights, Minnesota**

BORING: ST-10

LOCATION: Captured with RTK GPS.

DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)

NORTHING: 247409.2 EASTING: 550061.2

DRILLER: C McClain LOGGED BY: Z Semlak START DATE: 04/02/24 END DATE: 04/02/24

SURFACE ELEVATION: 850.8 ft RIG: 7514 METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Overcast

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			<p>BORING: ST-11</p>				
			<p>LOCATION: Captured with RTK GPS.</p>				
			<p>DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)</p>				
			NORTHING: 247080.8	EASTING: 549913.4			
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/02/24	END DATE:	
SURFACE ELEVATION:	855.2 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING: Bituminous	
WEATHER:	Snow						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
854.2		PAVEMENT, 7 inches of bituminous over 4 inches of apparent aggregate base		AU			
0.9		FILL: SILTY SAND (SM), fine-grained, with to trace Gravel, dark brown, moist		8-9-8 (17) 14"		7	
853.2		FILL: SANDY LEAN CLAY (CL), with to trace Gravel, with Silty Sand seams, brown, moist		7-5-6 (11) 1"			
2.0				2-2-5 (7) 12"			
850.7				2-5-6 (11) 14"			
4.5		FILL: SILTY SAND (SM), fine to medium-grained, with to trace Gravel, dark brown, moist	5	3-6-11 (17) 16"			
				4-9-15 (24) 16"			
845.7		With Clayey Sand seams at 9 feet		10-20-12 (32) 14"			
9.5		SILTY SAND (SM), fine to medium-grained, brown, moist, medium dense (GLACIAL OUTWASH)	10	8-9-15 (24) 16"	5	P200=15%	
843.2		POORLY GRADED SAND (SP), fine to medium-grained, brown, moist, medium dense (GLACIAL OUTWASH)	15				
12.0							
835.7							
19.5		SILTY SAND (SM), fine-grained, reddish brown, 20 wet, dense (GLACIAL OUTWASH)					
832.2							
23.0		SILT (ML), brown, wet, medium dense (ALLUVIUM)					
830.7		END OF BORING	25				Water observed at 20.0 feet with 19.5 feet of tooling in the ground while drilling.
24.5		Boring then grouted	30				Water observed at 22.0 feet at end of drilling.

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			BORING:	ST-12	
			LOCATION:	Captured with RTK GPS.	
			DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)	
			NORTHING:	246769.9	EASTING: 549619.9
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/02/24
SURFACE ELEVATION:	868.2 ft	RIG:	7514	METHOD:	3 1/4" HSA
SURFACING:	Bituminous		WEATHER:	Snow	
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf
867.2		PAVEMENT, 3 1/2 inches of bituminous over 8 inches of apparent aggregate base		AU	
1.0		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, dark brown, moist		9-15-10 (25) 14"	
866.2		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, brown, moist		7-10-10 (20) 16"	
2.0		FILL: SILTY SAND (SM), fine-grained, trace Gravel, dark brown, moist	5	7-7-10 (17) 16"	
863.7		CLAYEY SAND (SC), brown, moist, very stiff (GLACIAL TILL)		7-9-8 (17) 16"	
4.5				3-7-8 (15) 14"	
861.2		POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, moist, medium dense to dense (GLACIAL OUTWASH)		4-8-12 (20) 18"	
7.0				6-20-20 (40) 16"	
856.2				15-15-15 (30) 18"	
12.0		CLAYEY SAND (SC), brown, moist, very stiff (GLACIAL TILL)			P200=2%
845.7		END OF BORING	25		
22.5		Boring then grouted	30		
843.7					Water not observed while drilling.
24.5					

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota					BORING:	ST-13	
					LOCATION: Captured with RTK GPS.		
					DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)		
					NORTHING: 247153.7	EASTING: 550236.4	
DRILLER:	C McClain		LOGGED BY:	Z Semlak		START DATE: 04/02/24	
SURFACE ELEVATION:	845.8 ft		RIG:	7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous	
WEATHER:	Overcast						
Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
844.9		PAVEMENT, 6 1/2 inches of bituminous over 4 inches of apparent aggregate base		AU			
0.9		FILL: SILTY SAND (SM), fine to medium-grained, with trace Gravel, dark brown, moist		14-12-8 (20)			
843.8		FILL: SANDY LEAN CLAY (CL), trace Gravel, gray, moist		16"		10	
2.0							
841.3		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, brown, moist	5	11-10-14 (24)			
4.5				12"			
838.8		FILL: SILTY SAND (SM), fine-grained, slightly organic, black, moist		3-6-10 (16)			
7.0				14"			
837.8		FILL: SILTY SAND (SM), brown, moist					
8.0							
836.3							
9.5		ORGANIC CLAY (OL), black, moist (SWAMP DEPOSIT)	10	2-2-3 (5)			
833.8				16"			
12.0		POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, wet, loose (GLACIAL OUTWASH)		2-2-4 (6)			
829.8				14"			
16.0		END OF BORING		2-3-4 (7)			
		Boring then grouted		16"			
							Water observed at 12.5 feet with 12.0 feet of tooling in the ground while drilling.
				20			
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-14
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 246774.4 EASTING: 550640.1
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/02/24 END DATE: 04/02/24
SURFACE ELEVATION:	842.2 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Overcast
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
841.6		PAVEMENT, 4 inches of bituminous over 4 inches of apparent aggregate base		AU
0.7		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, dark brown, moist		4-11-9 (20) 12"
840.2		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist		12-15-15 (30) 14"
2.0		With CLAY layer at 5 feet		30-14-15 (29) 16"
		With Silt seams at 8 feet		10-15-28 (43) 18"
831.2		END OF BORING		Water not observed while drilling.
11.0		Boring then backfilled with auger cuttings		
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-15
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 246581.1 EASTING: 549880.3
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	861.8 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
861.1		PAVEMENT, 4 inches of bituminous over 5 inches of apparent aggregate base		AU
0.7		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		5-12-12 (24) 14"
859.8		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist		4-3-7 (10) 9"
2.0		With Silty Sand lenses at 3 feet	5	4-6-8 (14) 16"
854.8		FILL: SANDY LEAN CLAY (CL), brown, moist		5-11-12 (23) 10"
7.0				
852.3				
9.5				
850.8				
11.0		POORLY GRADED SAND (SP), fine to medium-grained, brown, moist, medium dense (GLACIAL OUTWASH)		
		END OF BORING		
		Boring then backfilled with auger cuttings		
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-16				
				LOCATION: Captured with RTK GPS.					
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)					
				NORTHING:	246146.6	EASTING:	549895.0		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/04/24	END DATE:	04/04/24		
SURFACE ELEVATION:	873.0 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING:	Bituminous		
WEATHER:	Clouds		WEATHER:	Clouds					
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks		
- 872.2		PAVEMENT, 4 inches of bituminous over 6 inches of apparent aggregate base		AU					
- 0.8		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		4-8-13 (21)					
- 871.0		FILL: CLAYEY SAND (SC), fine to medium-grained, trace Gravel, dark brown, moist		16"					
- 2.0									
- 869.0		FILL: SANDY LEAN CLAY (CL), fine to medium-grained, dark brown, moist	5	3-4-4 (8)					
- 4.0				15"					
- 866.0									
- 7.0		POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, moist, medium dense (GLACIAL OUTWASH)		5-8-11 (19)			Corrosion test performed at 7 1/2 feet. Reference analyses results table.		
- 862.0				16"					
- 11.0		END OF BORING		4-8-10 (18)					
		Boring then backfilled with auger cuttings		16"			Water not observed while drilling.		
				15					
				20					
				25					
				30					

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-17				
				LOCATION: Captured with RTK GPS.					
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)					
				NORTHING:	246346.9	EASTING:	550224.0		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/05/24	END DATE:	04/05/24		
SURFACE ELEVATION:	855.6 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING:	Bituminous		
Water level		Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)			Sample	Blows (N-Value) Recovery	q_p tsf		
Elev./ Depth ft						MC %	Tests or Remarks		
854.7		PAVEMENT, 5 inches of bituminous over 6 inches of apparent aggregate base				AU			
0.9		FILL: POORLY GRADED SAND with SILT (SP-SM), trace Gravel, dark brown, moist				7-10-10 (20) 18"			
848.6		FILL: SANDY LEAN CLAY (CL), trace Gravel, dark brown, moist			5	4-7-6 (13) 10"	4		
7.0						3-3-6 (9) 18"			
844.6					10	5-5-7 (12) 18"			
11.0		END OF BORING Boring immediately backfilled			15		Water not observed while drilling.		
					20				
					25				
					30				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-18
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 246501.6 EASTING: 550707.6
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/05/24 END DATE: 04/05/24
SURFACE ELEVATION:	845.5 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Sun
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
844.6		PAVEMENT, 5 inches of bituminous over 6 inches of apparent aggregate base		AU
0.9		FILL: POORLY GRADED SAND with SILT (SP-SM), medium to fine-grained, with Gravel, dark brown, moist		12-15-15 (30) 18"
841.5				2
4.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, brown, moist <i>With Clay seams at 5 feet</i>	5	7-6-5 (11) 18"
838.5				
7.0		FILL: POORLY GRADED SAND (SP), fine to coarse-grained, with Gravel, light brown, moist <i>With Clay lenses at 7 1/2 feet</i> <i>With Clay lenses at 9 feet</i>	10	14-10-10 (20) 14"
834.5				9-10-10 (20) 18"
11.0		END OF BORING Boring immediately backfilled		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-19				
				LOCATION: Captured with RTK GPS.					
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)					
				NORTHING:	246374.0	EASTING:	551041.4		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/05/24	END DATE:	04/05/24		
SURFACE ELEVATION:	849.9 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING:	Btuminous		
Water level		Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)			Sample	Blows (N-Value) Recovery	q _p tsf		
Elev./ Depth ft						MC %	Tests or Remarks		
848.8		PAVEMENT, 5 1/2 inches of bituminous over 7 inches of apparent aggregate base			AU				
1.1		FILL: SILTY SAND (SM), medium to fine-grained, with Gravel, light brown, moist			3-5-10 (15) 16"				
847.9		FILL: SANDY LEAN CLAY (CL), trace Gravel, dark brown, moist			5-4-3 (7) 18"				
2.0				5					
842.9					3-2-3 (5) 18"	22			
7.0		FILL: POORLY GRADED SAND (SP), fine to medium-grained, with Clay lenses, brown, moist					Corrosion test performed at 7 1/2 feet. Reference analyses results table.		
840.9									
9.0		FILL: POORLY GRADED SAND (SP), trace Gravel, light brown, moist		10	5-8-8 (16) 18"				
838.9							Water not observed while drilling.		
11.0		END OF BORING Boring immediately backfilled							
				15					
				20					
				25					
				30					

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-20				
				LOCATION: Captured with RTK GPS.					
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)					
				NORTHING:	246024.0	EASTING:	551403.2		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/05/24	END DATE:	04/05/24		
SURFACE ELEVATION:	850.6 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING:	Bituminous		
Water level		Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)			Sample	Blows (N-Value) Recovery	q _p tsf		
Elev./ Depth ft						MC %	Tests or Remarks		
848.8		PAVEMENT, 5 1/2 inches of bituminous over 16 inches of apparent aggregate base			AU				
1.8		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, light brown, moist			6-12-8 (20)				
848.6		FILL: CLAYEY SAND (SC), trace Gravel, dark brown, moist			18"	7			
2.0					5-4-3 (7)				
					8"				
					4-2-3 (5)				
					18"				
					3-3-3 (6)				
					10"				
839.6		END OF BORING			15		Corosion test performed at 7 1/2 feet. Reference analyses results table.		
11.0		Boring immediately backfilled			20		Water not observed while drilling.		
					25				
					30				

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			BORING:	ST-21			
			LOCATION:	Captured with RTK GPS.			
			DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)			
			NORTHING:	246198.8	EASTING: 550830.0		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/02/24		
SURFACE ELEVATION:	849.9 ft	RIG:	7514	METHOD:	3 1/4" HSA		
SURFACING:	Bituminous		WEATHER:	Snow			
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
848.8		PAVEMENT, 5 inches of bituminous over 8 inches of apparent aggregate base		AU			
1.1		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		4-8-10 (18)			
847.9		FILL: SILT (ML), brown, moist		16"			
2.0		FILL: POORLY GRADED SAND (SP), fine to medium-grained, brown, moist		3-4-7 (11)			
847.4				12"			
2.5							
844.4							
5.5		FILL: SILT (ML), brown, moist		10-13-13 (26)			
842.9				6"			
7.0		FILL: SILTY SAND (SM), fine-grained, trace Gravel, dark brown, moist		10-17-14 (31)			
				3"			
				23-30-17 (47)			
				6"			
836.4		END OF BORING					
13.5		Boring then backfilled with auger cuttings					Water not observed while drilling.
				15			
				20			
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING: ST-22			
				LOCATION: Captured with RTK GPS.			
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)			
				NORTHING: 246066.4	EASTING: 550541.9		
DRILLER: C McClain		LOGGED BY: Z Semlak		START DATE: 04/04/24		END DATE: 04/04/24	
SURFACE ELEVATION: 851.5 ft		RIG: 7514	METHOD: 3 1/4" HSA	SURFACING: Bituminous		WEATHER: Clouds	
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
850.8		PAVEMENT, 4 inches of bituminous over 3 inches of apparent aggregate base		6-16-20 (36) 1"			
0.7		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist	5	23-25-21 (46) 0"			
845.5			10	10-11-9 (20) 9"			
6.0		FILL: SANDY LEAN CLAY (CL), brownish gray, moist	15	5-7-8 (15) 14"			Corrosion test performed at 7 1/2 feet. Reference analyses results table.
840.5		With slightly organic CLAY layer at 10 1/2 feet	20				
11.0		END OF BORING	25				Water not observed while drilling.
		Boring immediately backfilled	30				

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-23
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245781.8 EASTING: 550801.9
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	855.4 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
854.7		PAVEMENT, 4 inches of bituminous over 5 inches of apparent aggregate base		AU
0.7		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		3-6-12 (18) 14"
851.4				
4.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist	5	10-11-9 (20) 16"
846.4				
9.0				
844.4		FILL: SANDY LEAN CLAY (CL), fine to medium-grained, trace Gravel, dark brown, moist	10	3-5-6 (11) 0"
11.0				
		END OF BORING		
		Boring immediately backfilled		
				15
				20
				25
				30

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-24
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245896.4 EASTING: 549649.7
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	884.6 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
883.8		PAVEMENT, 5 inches of bituminous over 5 inches of apparent aggregate base		AU
0.8		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		4-6-6 (12) 17"
882.6		FILL: CLAYEY SAND (SC), trace Gravel, dark brown, moist		2-5-7 (12) 18"
2.0			5	6-7-14 (21) 18"
877.6				5-6-9 (15) 17"
7.0		FILL: SANDY LEAN CLAY (CL), trace Gravel, dark brown, moist		
875.6				
9.0		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, dark brown, moist	10	
873.6				
11.0		END OF BORING Boring immediately backfilled		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-25
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245936.1 EASTING: 550305.0
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	867.2 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC % Tests or Remarks
866.7		PAVEMENT, 4 1/2 inches of bituminous over 3 inches of apparent aggregate base		AU
0.6		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist		4-6-6 (12) 13"
865.2		FILL: POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, light brown, moist	5	3-4-5 (9) 8"
2.0				
860.2				
7.0		POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, light brown, moist, medium dense (GLACIAL OUTWASH)		2-5-7 (12) 14"
856.2				3-5-5 (10) 16"
11.0		END OF BORING Boring immediately backfilled		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-26
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245694.1 EASTING: 550158.7
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	866.1 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
865.4		PAVEMENT, 4 inches of bituminous over 3 inches of apparent aggregate base		AU
0.7		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		3-7-10 (17) 8"
		<i>With to trace Gravel at 5 feet</i>	5	13-14-11 (25) 16"
859.1				3-4-6 (10) 17"
7.0		FILL: SANDY LEAN CLAY (CL), dark brown, moist		2-3-3 (6) 17"
855.1				
11.0		END OF BORING Boring immediately backfilled		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-29
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245363.9 EASTING: 550421.2
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	862.2 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
861.7		PAVEMENT, 4 inches of bituminous over 2 inches of apparent aggregate base		AU
0.5		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		4-6-7 (13) 16"
860.2		FILL: CLAYEY SAND (SC), trace Gravel, dark brown, moist		6-7-7 (14) 8"
2.0				2-4-10 (14) 16"
				7-4-6 (10) 17"
855.2		FILL: SANDY LEAN CLAY (CL), trace Gravel, dark brown, moist		
7.0				
851.2				
11.0		END OF BORING Boring immediately backfilled		
				15
				20
				25
				30

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>			BORING: ST-27				
			LOCATION: Captured with RTK GPS.				
			DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)				
			NORTHING: 245757.6		EASTING: 549476.9		
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE:	04/04/24	END DATE:	
SURFACE ELEVATION:	887.0 ft	RIG:	7514	METHOD:	3 1/4" HSA	SURFACING: Bituminous	
WEATHER:	Clouds						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
886.0		PAVEMENT, 5 inches of bituminous over 6 inches of apparent aggregate base		AU			
0.9				5-12-12 (24)			
885.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist		17"			
2.0				8-11-11 (22)		7	
		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, dark brown, moist		17"			
				11-12-13 (25)			
				18"			
				7-11-13 (24)			
				18"			
876.0		END OF BORING		15			
11.0		Boring immediately backfilled		20			Water not observed while drilling.
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-28
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245540.5 EASTING: 549897.3
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	873.1 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC %
872.3		PAVEMENT, 4 1/2 inches of bituminous over 5 inches of apparent aggregate base		AU
0.8		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist		5-12-12 (24) 14"
			5	5-7-7 (14) 17"
866.1		FILL: SANDY LEAN CLAY (CL), trace Gravel, dark brown, moist		5-7-10 (17) 18"
7.0				Corrosion test performed at 7 1/2 feet. Reference analyses results table.
864.1		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist	10	4-8-7 (15) 16"
9.0				Water not observed while drilling.
862.1				
11.0		END OF BORING Boring immediately backfilled	15 20 25 30	

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota				BORING: ST-30
				LOCATION: Captured with RTK GPS.
				DATUM: NAD 1983 HARN Adj MN Dakota (US Feet)
				NORTHING: 245076.3 EASTING: 550394.3
DRILLER:	C McClain	LOGGED BY:	Z Semlak	START DATE: 04/04/24 END DATE: 04/04/24
SURFACE ELEVATION:	869.4 ft	RIG:	7514	METHOD: 3 1/4" HSA SURFACING: Bituminous WEATHER: Clouds
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery q_p tsf MC % Tests or Remarks
868.6		PAVEMENT, 4 1/2 inches of bituminous over 5 inches of apparent aggregate base		AU
0.8		FILL: SILTY SAND (SM), fine to medium-grained, with Gravel, dark brown, moist		3-4-4 (8) 15"
867.4		FILL: CLAYEY SAND (SC), trace Gravel, dark brown, moist		4-4-4 (8) 16"
2.0				3-4-20 (24) 13"
860.4				19-33-30 (63) 15"
9.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, with Gravel, dark brown, moist		
858.4				
11.0		END OF BORING Boring immediately backfilled		Water not observed while drilling.
			15	
			20	
			25	
			30	

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-31		
				LOCATION:			
				DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)		
				NORTHING:	245991	EASTING:	549324
DRILLER:	M. Barber	LOGGED BY:	R. Jett	START DATE:	06/12/24	END DATE:	06/12/24
SURFACE ELEVATION:	889.7 ft	RIG:	GP-1	METHOD:	3 1/4" HSA	SURFACING:	Bituminous
WEATHER:	Sun						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
889.1		ASPHALT, 4 inches of bituminous over 4 inches of apparent aggregate base					
0.7		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, brown to dark brown, moist		3-2-2 (4) 18"		13	
885.2							
4.5		FILL: SANDY LEAN CLAY (CL), trace Gravel, brown, moist	5	1-3-4 (7) 18"		20	
882.7							
7.0		FILL: CLAYEY SAND (SC), trace Gravel, brown, moist		14-10-10 (20) 18"			
880.2							
9.5							
878.7							
11.0		SILTY SAND (SM), fine to medium-grained, trace Gravel, contains seams of Clay, brown, moist, very stiff (GLACIAL TILL)	10	6-10-11 (21) 18"			Water not observed while drilling.
		END OF BORING					
		Boring then backfilled with auger cuttings					
				15			
				20			
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-32		
				LOCATION:			
				DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)		
				NORTHING:	244665	EASTING:	549400
DRILLER:	M. Barber	LOGGED BY:	R. Jett	START DATE:	06/12/24	END DATE:	06/12/24
SURFACE ELEVATION:	901.3 ft	RIG:	GP-1	METHOD:	3 1/4" HSA	SURFACING:	Bituminous
WEATHER:	Sun						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q _p tsf	MC %	Tests or Remarks
900.0		ASPHALT, 4 inches of bituminous over 11 inches of apparent aggregate base					
1.3		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, dark brown to dark gray, moist		2-3-2 (5) 10"		9	P200=35%
896.8				3-3-5 (8) 16"			
4.5		FILL: CLAYEY SAND (SC), trace Gravel, brown, moist	5	24-14-6 (20) 13"			
894.3				10-8-8 (16) 18"			
7.0		SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist, very stiff (GLACIAL TILL)					
890.3							
11.0		END OF BORING					Water not observed while drilling.
		Boring then backfilled with auger cuttings					
				15			
				20			
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

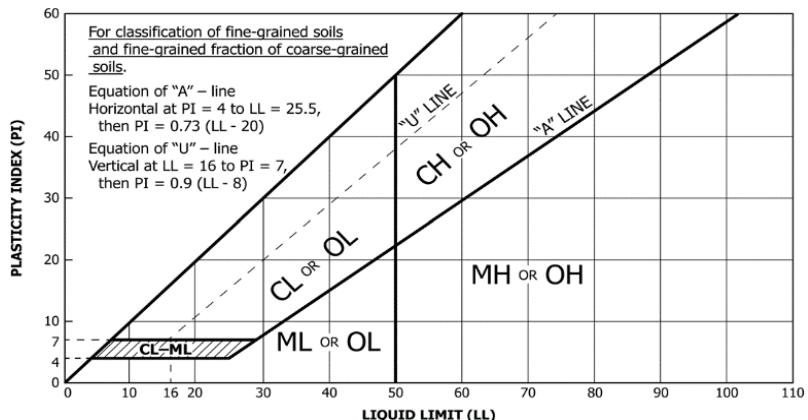
<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-33		
				LOCATION:			
				DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)		
				NORTHING:	245069	EASTING:	551098
DRILLER:	M. Barber	LOGGED BY:	R. Jett	START DATE:	06/12/24	END DATE:	06/12/24
SURFACE ELEVATION:	855.0 ft	RIG:	GP-1	METHOD:	3 1/4" HSA	SURFACING:	Bituminous
WEATHER:	Sun						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
854.2		ASPHALT, 4 1/2 inches of bituminous over 6 inches of apparent aggregate base					
0.8		FILL: CLAYEY SAND (SC), trace Gravel, brown, moist		1-2-4 (6) 7"		16	
850.5							
4.5		FILL: SANDY LEAN CLAY (CL), trace Gravel, brown, moist	5	1-1-4 (5) 6"		17	
845.5							
9.5							
844.0		SILTY SAND (SM), fine to coarse-grained, trace Gravel, brown, wet, medium dense (GLACIAL TILL)	10	0-2-2 (4) 18"			
11.0							
		END OF BORING		2-9-11 (20) 14"			
		Boring then backfilled with auger cuttings					Water observed at 9.5 feet while drilling.
				15			
				20			
				25			
				30			

See Descriptive Terminology sheet for explanation of abbreviations

<p>Project Number B2402483 Geotechnical Evaluation Friendly Hills Neighborhood Improvements Multiple Streets Mendota Heights, Minnesota</p>				BORING:	ST-34		
				LOCATION:			
				DATUM:	NAD 1983 HARN Adj MN Dakota (US Feet)		
				NORTHING:	245129	EASTING:	551794
DRILLER:	M. Barber	LOGGED BY:	R. Jett	START DATE:	06/12/24	END DATE:	06/12/24
SURFACE ELEVATION:	852.0 ft	RIG:	GP-1	METHOD:	3 1/4" HSA	SURFACING:	Bituminous
WEATHER:	Sun						
Elev./ Depth ft	Water level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
850.7		ASPHALT, 4 inches of bituminous over 10 inches of apparent aggregate base					
1.3		FILL: SANDY LEAN CLAY (CL), trace Gravel, brown, moist		3-3-4 (7) 10"		20	
847.5							
4.5		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist	5	4-4-4 (8) 6"		11	P200=25%
844.5							
7.5		SANDY LEAN CLAY (CL), trace Gravel, brown, moist, stiff (GLACIAL TILL)		2-7-7 (14) 15"			
842.5							
9.5		POORLY GRADED SAND with SILT (SP-SM), fine to coarse-grained, trace Gravel, brown, wet, medium dense (GLACIAL OUTWASH)	10	15-12-10 (22) 16"		18	
841.0							
11.0		END OF BORING					Water observed at 9.5 feet while drilling.
		Boring then backfilled with auger cuttings					
				15			
				20			
				25			
				30			

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A			Soil Classification	
	Group Symbol	Group Name ^B		
Coarse-grained Soils (more than 50% retained on No. 200 sieve)	Gravels (More than 50% of coarse fraction retained on No. 4 sieve)	Clean Gravels (Less than 5% fines ^C) $C_u \geq 4$ and $1 \leq C_c \leq 3^D$ $C_u < 4$ and/or $(C_c < 1$ or $C_c > 3)^D$	GW GP	Well-graded gravel ^E Poorly graded gravel ^E
	Gravels with Fines (More than 12% fines ^C)	Fines classify as ML or MH Fines Classify as CL or CH	GM GC	Silty gravel ^{EFG} Clayey gravel ^{EFG}
	Sands (50% or more coarse fraction passes No. 4 sieve)	Clean Sands (Less than 5% fines ^H) $C_u \geq 6$ and $1 \leq C_c \leq 3^D$ $C_u < 6$ and/or $(C_c < 1$ or $C_c > 3)^D$	SW SP	Well-graded sand ^I Poorly graded sand ^I
	Sands with Fines (More than 12% fines ^H)	Fines classify as ML or MH Fines classify as CL or CH	SM SC	Silty sand ^{F,G,I} Clayey sand ^{F,G,I}
	Silts and Clays (Liquid limit less than 50)	Inorganic PI > 7 and plots on or above "A" line ^J PI < 4 or plots below "A" line ^J	CL ML	Lean clay ^{KLM} Silt ^{KLM}
	Organic	Liquid Limit – oven dried <0.75 Liquid Limit – not dried	OL	Organic clay ^{KLMN} Organic silt ^{KLMO}
Fine-grained Soils (50% or more passes the No. 200 sieve)	Silts and Clays (Liquid limit 50 or more)	Inorganic PI plots on or above "A" line PI plots below "A" line	CH MH	Fat clay ^{KLM} Elastic silt ^{KLM}
	Organic	Liquid Limit – oven dried <0.75 Liquid Limit – not dried	OH	Organic clay ^{KLMP} Organic silt ^{KLMQ}
	Highly Organic Soils	Primarily organic matter, dark in color, and organic odor	PT	Peat

- A. Based on the material passing the 3-inch (75-mm) sieve.
- B. If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- C. Gravels with 5 to 12% fines require dual symbols:
 - GW-GM well-graded gravel with silt
 - GW-GC well-graded gravel with clay
 - GP-GM poorly graded gravel with silt
 - GP-GC poorly graded gravel with clay
- D. $C_u = D_{60} / D_{10}$ $C_c = (D_{30})^2 / (D_{10} \times D_{60})$
- E. If soil contains $\geq 15\%$ sand, add "with sand" to group name.
- F. If fines classify as CL-ML, use dual symbol GC-GM or SC-SM.
- G. If fines are organic, add "with organic fines" to group name.
- H. Sands with 5 to 12% fines require dual symbols:
 - SW-SM well-graded sand with silt
 - SW-SC well-graded sand with clay
 - SP-SM poorly graded sand with silt
 - SP-SC poorly graded sand with clay
- I. If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.
- J. If Atterberg limits plot in hatched area, soil is CL-ML, silty clay.
- K. If soil contains 15 to $< 30\%$ plus No. 200, add "with sand" or "with gravel", whichever is predominant.
- L. If soil contains $\geq 30\%$ plus No. 200, predominantly sand, add "sandy" to group name.
- M. If soil contains $\geq 30\%$ plus No. 200 predominantly gravel, add "gravelly" to group name.
- N. PI ≥ 4 and plots on or above "A" line.
- O. PI < 4 or plots below "A" line.
- P. PI plots on or above "A" line.
- Q. PI plots below "A" line.



Laboratory Tests

DD	Dry density, pcf	q_p	Pocket penetrometer strength, tsf
WD	Wet density, pcf	q_u	Unconfined compression test, tsf
P200	% Passing #200 sieve	LL	Liquid limit
MC	Moisture content, %	PL	Plastic limit
OC	Organic content, %	PI	Plasticity index

Particle Size Identification

Boulders.....	over 12"
Cobbles.....	3" to 12"
Gravel	
Coarse.....	3/4" to 3" (19.00 mm to 75.00 mm)
Fine.....	No. 4 to 3/4" (4.75 mm to 19.00 mm)
Sand	
Coarse.....	No. 10 to No. 4 (2.00 mm to 4.75 mm)
Medium.....	No. 40 to No. 10 (0.425 mm to 2.00 mm)
Fine.....	No. 200 to No. 40 (0.075 mm to 0.425 mm)
Silt.....	No. 200 (0.075 mm) to .005 mm
Clay.....	<.005 mm

Relative Proportions^{L,M}

trace.....	0 to 5%
little.....	6 to 14%
with.....	$\geq 15\%$

Inclusion Thicknesses

lens.....	0 to 1/8"
seam.....	1/8" to 1"
layer.....	over 1"

Apparent Relative Density of Cohesionless Soils

Very loose	0 to 4 BPF
Loose	5 to 10 BPF
Medium dense.....	11 to 30 BPF
Dense.....	31 to 50 BPF
Very dense.....	over 50 BPF

Consistency of Cohesive Soils	Blows Per Foot	Approximate Unconfined Compressive Strength
Very soft.....	0 to 1 BPF.....	< 0.25 tsf
Soft.....	2 to 4 BPF.....	0.25 to 0.5 tsf
Medium.....	5 to 8 BPF.....	0.5 to 1 tsf
Stiff.....	9 to 15 BPF.....	1 to 2 tsf
Very Stiff.....	16 to 30 BPF.....	2 to 4 tsf
Hard.....	over 30 BPF.....	> 4 tsf

Moisture Content:

Dry: Absence of moisture, dusty, dry to the touch.

Moist: Damp but no visible water.

Wet: Visible free water, usually soil is below water table.

Drilling Notes:

Blows/N-value: Blows indicate the driving resistance recorded for each 6-inch interval. The reported N-value is the blows per foot recorded by summing the second and third interval in accordance with the Standard Penetration Test, ASTM D1586.

Partial Penetration: If the sampler could not be driven through a full 6-inch interval, the number of blows for that partial penetration is shown as #/x" (i.e. 50/2"). The N-value is reported as "REF" indicating refusal.

Recovery: Indicates the inches of sample recovered from the sampled interval. For a standard penetration test, full recovery is 18", and is 24" for a thinwall/shelby tube sample.

WOH: Indicates the sampler penetrated soil under weight of hammer and rods alone; driving not required.

WOR: Indicates the sampler penetrated soil under weight of rods alone; hammer weight and driving not required.

Water Level: Indicates the water level measured by the drillers either while drilling (□), at the end of drilling (■), or at some time after drilling (▲).

Sample Symbols

	Standard Penetration Test		Rock Core
	Modified California (MC)		Thinwall (TW)/Shelby Tube (SH)
	Auger		Texas Cone Penetrometer
	Grab Sample		Dynamic Cone Penetrometer

State Aid 10 Ton ESAL Traffic Forecast Calculator

This ESAL calculator is for use with **default Heavy Commercial Traffic values**; click "User Defined Traffic Values" sheet below if you wish to enter your own Heavy Commercial Traffic values.

Instructions: All yellow boxes require an input value.

Dropdown choices are provided for Base Year (C18), Number of Lanes (C19), and Urban or Rural (C21).

You must click on cells C18, C19, and C21 to access the dropdown choices.

General Information

Date

4-26-2024

Forecast Performed by

Braun Intertec

Name of County or City

Mendota Heights (Dakota County)

Project Number

B2402483

Project Description

Rehabilitation

Route Number

MSAS 16

Base Year (i.e. opening to traffic)

2026

Number of Lanes (total both directions)

2 = typical 2 lane

Current AADT

1,500

Urban or Rural

Urban

Historical AADT (enter a minimum of two years)

Year

AADT

Enter oldest traffic data here

2007

1,750

Enter second oldest traffic data here

2010

1,650

Enter third oldest traffic data here

2014

1,550

Enter fourth oldest traffic data here

2018

1,500

Base Year AADT

2026

1,300

20-Year AADT

2046

1,430

35-Year AADT

2061

1,528

Growth Rate

0.50%

Vehicle Type	Vehicle Class %	ESAL Factors	
		Flexible	Rigid
2AX-6TIRE SU	1.38%	0.25	0.24
3AX+SU	0.06%	0.58	0.85
3AX TST	0.10%	0.39	0.37
4AX TST	0.19%	0.51	0.53
5AX+TST	1.50%	1.13	1.89
TR TR, BUSES	0.66%	0.57	0.74
TWIN TRAILERS	0.00%	2.40	2.33
Total	3.90%	NA	NA

20-Year Flexible Forecast (10 Ton) = 152,000

20-Year Rigid Forecast (10 Ton) = 225,000

35-Year Flexible Forecast (10 Ton) = 270,000

35-Year Rigid Forecast (10 Ton) = 400,000

Note: This ESAL Calculator provides reasonable estimation of ESAL's based on accurate AADT values. It is limited to an AADT value of 20,000. For roadways exceeding an AADT of 20,000, it is recommended to use the MnDOT ESAL Forecasting Tool found on MnDOT's Pavement Design web page at:
<http://www.dot.state.mn.us/materials/pvmtdesign/software.html>

MnPAVE Design Summary

MnPAVE 6.502 Simulation Input File: Reconstruction

Confidence Level for Preliminary Life Estimate = 70%70%70%

Confidence and Reliability may not agree. Thickness and modulus are reduced when Confidence > 50%.

Monte Carlo Reliability randomly selects values for each layer. Use Reliability for final design. Use Reliability for final design.

Preliminary Life Estimate		20-Year Reliability (5,000 cycles)	
Fatigue	Rutting	Fatigue	Rutting
>50 years	39 years	100%	98.9%

Project Information

District	County	City
Metro	Dakota	Mendota Heights
Project Number	Route	Reference Post
B2402483	Various	from to
Letting Date	Construction Type	
05/14/24	Rehabilitation	
Designer	Soils Engineer	
Kimley-Horn	Braun Intertec	

Climate Information

Seasons	Location
5	44° 39' Latitude, 93° 3' Longitude

Structural Information (Design Level: Intermediate)

Layer	Type	Subtype	Height (in.)
1a	Hot-Mix Asphalt (Pb = 5.0%)	PG58-34 (2360F 1/2")	1.50
1b	Hot-Mix Asphalt (Pb = 5.0%)	PG58-34 (2360F 1/2")	2.50
2	Aggregate Base	FDR	8.00
3	Engineered Soil	R-Value = 15 (SaL(p))	

Traffic Information (Speed = 30 mph)

Load Type	First Year ESAL	Growth Rate	Axle Repetitions
ESAL	9,132	1.0% (simple)	200,000

Notes

Friendly Hills Neighborhood Street Rehabilitation

The Minnesota Department of Transportation makes no guarantee or warranty, either express or implied, with respect to the reuse of the data provided herewith, regardless of its format or means of its transmission. The user accepts the data "as is", and assumes all risks associated with its use. By accepting this data, the user agrees not to transmit this data or provide access to it or any part of it to another party unless the user shall include with the data a copy of this disclaimer. The Minnesota Department of Transportation assumes no responsibility, actual or consequential, for damage that results from any user's reliance on this data.

Printed Monday, July 29, 2024 at 08:43:18

Table A

Boring	HMA Thickness (inches)	Agg Base Thickness (inches)	Total	Street Location
ST-2	3.5	8	11.5	Creek Avenue
ST-3	4	4	8	Aztec Lane
ST-4	5.5	7	12.5	Fox Place
ST-5	5	8	13	
ST-6	3.5	7	10.5	Fox Place
ST-7	4.5	7.5	12	Aztec Lane
ST-8	4	6	10	Hokah Avenue
ST-9	4	5.5	9.5	Aztec Lane
ST-13	6.5	4	10.5	Cheyenne Lane
ST-14	4	4	8	Cheyenne Lane
ST-15	4	5	9	Apache Street
ST-16	4	6	10	Apache Street
ST-17	5	6	11	Pontiac Place
ST-18	5	6	11	Pontiac Place
ST-19	5.5	7	12.5	Ocala Lane
ST-20	5.5	16	21.5	Ocala Lane
ST-21	5	8	13	Decorah lane
ST-22	4	3	7	Navajo Lane
ST-23	4	5	9	Pueblo Lane
ST-24	5	5	10	Keokuk
ST-25	4.5	3	7.5	Granular Lane
ST-26	4	3	7	Apache Street
ST-27	5	6	11	Pueblo Drive
ST-28	4.5	5	9.5	Mohlcan Lane
ST-29	4	2	6	Pueblo Lane
ST-30	4.5	5	9.5	Mohlcan Court
ST-31	4	4	8	Pagel Road
ST-32	4	11	15	Havenview Court
ST-33	4.5	6	10.5	Apache Lane
ST-34	4	10	14	Apache Court

APPENDIX D – OPINION OF PROBABLE COST

ENGINEER'S OPINION OF PROBABLE COST												CP 202407																
2025 PROJECT AREA												2026 PROJECT AREA																
												ROADWAY (ASSESSABLE)		STORM SEWER (NON-ASSESSABLE)		SANITARY SEWER (NON-ASSESSABLE)		WATERMAIN (NON-ASSESSABLE) (CITY)		WATERMAIN (NON-ASSESSABLE) (SPRWS)		CITY PARK, TRAIL, AND ADA IMPROVEMENTS (NON-ASSESSABLE)		ROADWAY (ASSESSABLE)		STORM SEWER (NON-ASSESSABLE)		SANITARY SEWER (NON-ASSESSABLE)
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	UNIT COST	TOTAL COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST	ESTIMATED QUANTITY	COST			
2021.501	MOBILIZATION	LUMP SUM	1	\$ 520,000.00	\$ 520,000.00	0.3	\$ 156,000.00	0.05	\$ 26,000.00	0.1	\$ 52,000.00				0.1	\$ 52,000.00			0.3	\$ 156,000.00	0.04	\$ 20,800.00	0.01	\$ 5,200.00		0.1	\$ 52,000.00	
2101.602	TREE TRIMMING	EACH	20	\$ 200.00	\$ 4,000.00	10	\$ 2,000.00												10	\$ 2,000.00								
2104.502	REMOVE GATE VALVE & BOX	EACH	31	\$ 500.00	\$ 15,500.00											18	\$ 9,000.00										13	\$ 6,500.00
2104.502	REMOVE HYDRANT	EACH	11	\$ 750.00	\$ 8,250.00											8	\$ 6,000.00										3	\$ 2,250.00
2104.502	REMOVE DRAINAGE STRUCTURE	EACH	6	\$ 750.00	\$ 4,500.00																							
2104.502	SALVAGE CASTING	EACH	18	\$ 350.00	\$ 6,300.00											6	\$ 2,100.00	5	\$ 1,750.00									
2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	637	\$ 2.50	\$ 1,592.50	485	\$ 1,212.50																					
2104.503	REMOVE WATER MAIN	LIN FT	904	\$ 15.00	\$ 13,560.00																							
2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	210	\$ 16.00	\$ 3,360.00											210	\$ 3,360.00											
2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	1472	\$ 20.00	\$ 29,440.00																							
2104.503	REMOVE CURB GUTTER	LIN FT	18163	\$ 8.00	\$ 145,304.00	5936	\$ 47,504.00	936	\$ 7,488.00	2810	\$ 22,480.00					1472	\$ 29,440.00										180	\$ 1,440.00
2104.504	REMOVE CONCRETE WALK	SO YD	167	\$ 10.00	\$ 1,670.00											67	\$ 670.00											
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SO YD	664	\$ 15.00	\$ 9,960.00	158	\$ 2,370.00	82	\$ 1,230.00	132	\$ 1,980.00																248	\$ 3,720.00
2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SO YD	466	\$ 6.00	\$ 2,796.00	126	\$ 756.00	120	\$ 720.00																		138	\$ 828.00
2104.518	REMOVE BITUMINOUS WALK	SO FT	28200	\$ 1.50	\$ 42,300.00																						996	\$ 1,494.00
2104.602	REMOVE SANITARY MANHOLE	EACH	6	\$ 1,500.00	\$ 9,000.00											6	\$ 9,000.00											
2104.603	ABANDON WATER MAIN	LIN FT	786	\$ 20.00	\$ 15,720.00																							
2104.603	SAWING BITUMINOUS DRIVEWAY	LIN FT	1068	\$ 3.00	\$ 3,204.00	325	\$ 975.00	299	\$ 897.00																	279	\$ 837.00	
2104.603	SAWING CONCRETE DRIVEWAY	LIN FT	1017	\$ 4.00	\$ 4,068.00	264	\$ 1,056.00	137	\$ 548.00	220	\$ 880.00															396	\$ 1,584.00	
2104.618	SALVAGE BRICK PAVERS	SO FT	20	\$ 30.00	\$ 600.00																					20	\$ 600.00	
2106.507	EXCAVATION - COMMON	CU YD	12220	\$ 30.00	\$ 366,600.00	4788	\$ 143,640.00	78	\$ 2,340.00	1535	\$ 46,050.00					20	\$ 600.00										5739	\$ 172,170.00
2106.507	EXCAVATION - SUBGRADE	CU YD	3114	\$ 30.00	\$ 93,420.00	1370	\$ 41,100.00																				1744	\$ 52,320.00
2106.507	GRANULAR EMBANKMENT (CV)	CU YD	3114	\$ 20.00	\$ 62,280.00	1370	\$ 27,400.00																				1744	\$ 34,880.00
2106.507	COMMON EMBANKMENT (CV)	CU YD	100	\$ 10.00	\$ 1,000.00											100	\$ 1,000.00											
2106.601	DEWATERING	LUMP SUM	1	\$ 20,000.00	\$ 20,000.00											1	\$ 20,000.00											
2123.510	2 CU YD FRONT END LOADER	HOUR	50	\$ 500.00	\$ 25,000.00	25	\$ 12,500.00																				25	\$ 12,500.00
2123.610	TRACTOR MOUNTED BACKHOE	HOUR	50	\$ 500.00	\$ 25,000.00	25	\$ 12,500.00																				25	\$ 12,500.00
2123.610	SKID LOADER	HOUR	50	\$ 500.00	\$ 25,000.00	25	\$ 12,500.00																			25	\$ 12,500.00	
2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	50	\$ 250.00	\$ 12,500.00	25	\$ 6,250.00																			25	\$ 6,250.00	
2211.509	AGGREGATE BASE CLASS 5	TON	5071	\$ 30.00	\$ 152,130.00	1622	\$ 48,660.00	82	\$ 2,460.00	2705	\$ 81,150.00					19	\$ 570.00										582	\$ 17,460.00
2215.504	FULL DEPTH RECLAMATION	SO YD	87482	\$ 5.00	\$ 437,410.00	41089	\$ 205,445.00																				46393	\$ 231,965.00
2360.509	TYPE SP 9.5 WEARING COURSE MIX (3:C)	TON	7600	\$ 100.00	\$ 760,0																							

**CITY OF MENDOTA HEIGHTS
FRIENDLY HILLS NEIGHBORHOOD IMPROVEMENTS
DECORAH LANE TRAIL IMPROVEMENTS**

ESTIMATED COSTS - TRAIL IMPROVEMENTS

Item No.	Item	Units	Quantity	Unit Price	Amount
1	MOBILIZATION	LS	1	\$ 18,924	\$ 18,924
2	CLEARING AND GRUBBING	EA	3	\$ 1,000	\$ 3,000
3	REMOVE CONCRETE CURB & GUTTER	LF	1,400	\$ 8	\$ 11,200
4	REMOVE BITUMINOUS PAVEMENT	SY	1,300	\$ 4	\$ 5,200
5	REMOVE CONCRETE DRIVEWAY PAVEMENT	SY	180	\$ 15	\$ 2,700
6	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SY	320	\$ 6	\$ 1,920
7	REMOVE CATCH BASIN	EA	5	\$ 750	\$ 3,750
8	REMOVE STORM SEWER PIPE	LF	61	\$ 16	\$ 976
9	RELOCATE HYDRANT	EA	3	\$ 2,000	\$ 6,000
10	SALVAGE SIGN	EA	2	\$ 100	\$ 200
11	COMMON EXCAVATION	CY	540	\$ 30	\$ 16,189
12	SUBGRADE EXCAVATION	CY	54	\$ 30	\$ 1,619
13	COMMON EMBANKMENT	CY	200	\$ 20	\$ 4,000
14	CLASS 5 AGGREGATE BASE	TON	550	\$ 30	\$ 16,500
15	GEOTEXTILE FABRIC TYPE V	SY	1,160	\$ 12	\$ 13,920
16	BITUMINOUS PATCHING	TON	120	\$ 100	\$ 12,000
17	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) (3") (DRIVEWAYS)	TON	70	\$ 120	\$ 8,400
18	6" CONCRETE DRIVEWAY PAVEMENT	SY	180	\$ 85	\$ 15,300
19	B618 CURB AND GUTTER	LF	1,400	\$ 22	\$ 30,800
20	3" BITUMINOUS TRAIL	SF	10,440	\$ 2.50	\$ 26,100
21	CONCRETE WALK (PED RAMPS)	SF	520	\$ 20	\$ 10,400
22	TRUNCATED DOMES	SF	64	\$ 65	\$ 4,160
23	SODDING TYPE LAWN	SY	920	\$ 12	\$ 11,040
24	BOULEVARD TOPSOIL BORROW (6")	CY	160	\$ 50	\$ 8,000
25	CATCH BASIN	EA	5	\$ 5,000	\$ 25,000
26	ADJUST FRAME & RING CASTING (CATCH BASIN)	EA	(5)	\$ 1,000	\$ (5,000)
27	INSTALL SIGN	EA	2	\$ 100	\$ 200
28	12" SOLID LINE	LF	198	\$ 15	\$ 2,970
Subtotal					\$ 255,468
Construction Contingency (10%)					\$ 25,547
Indirect Costs (20%)					\$ 56,203
Total					\$ 337,217
TOTAL DECORAH LANE TRAIL IMPROVEMENTS COSTS					\$ 337,217

APPENDIX E – PRELIMINARY ASSESSMENT ROLL AND MAPS

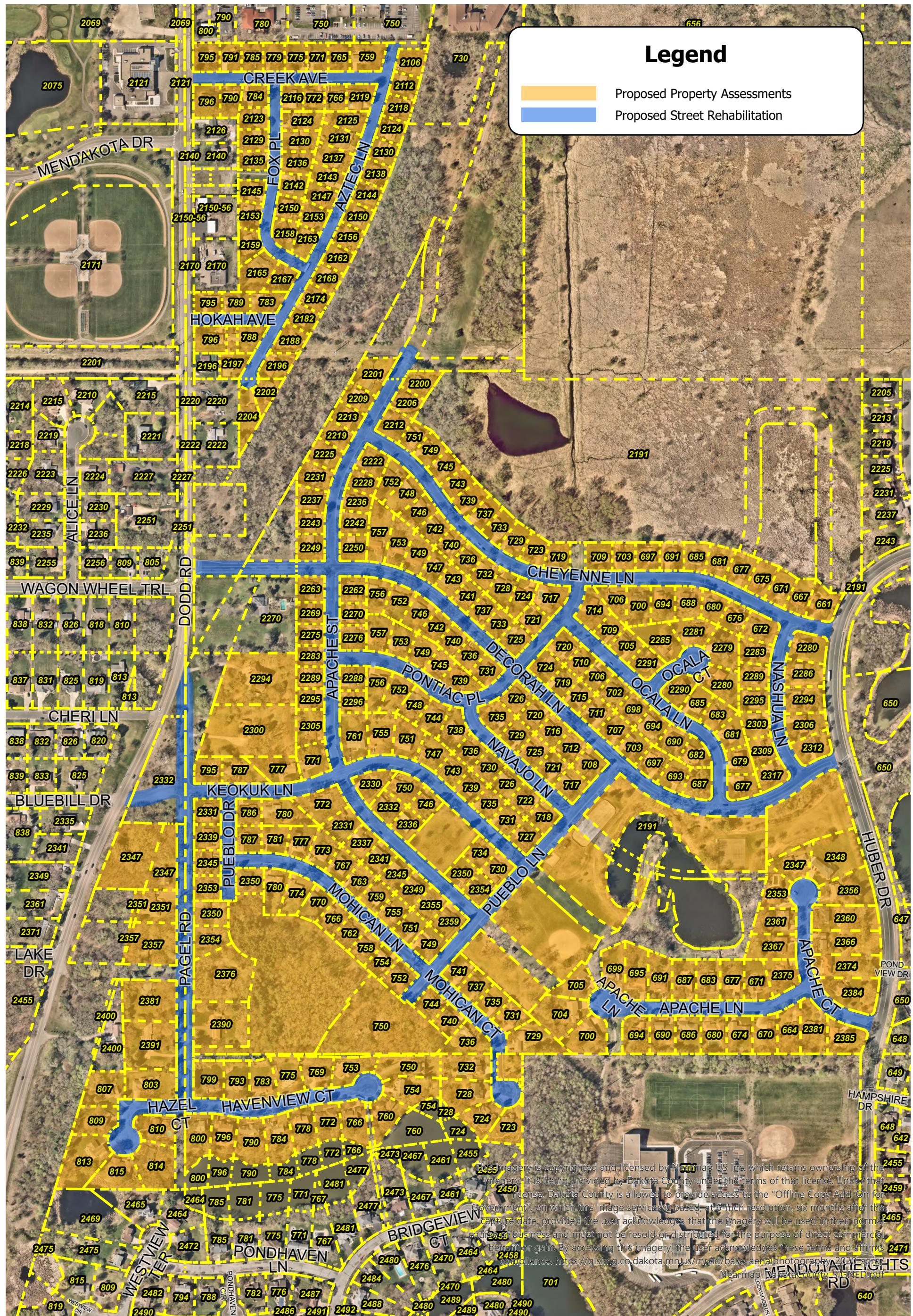
Friendly Hills Neighborhood Improvements Project Area



0 510
SCALE IN FEET



Date: 6/25/2024



Friendly Hills Neighborhood Improvements Project Area

Date: 6/25/2024

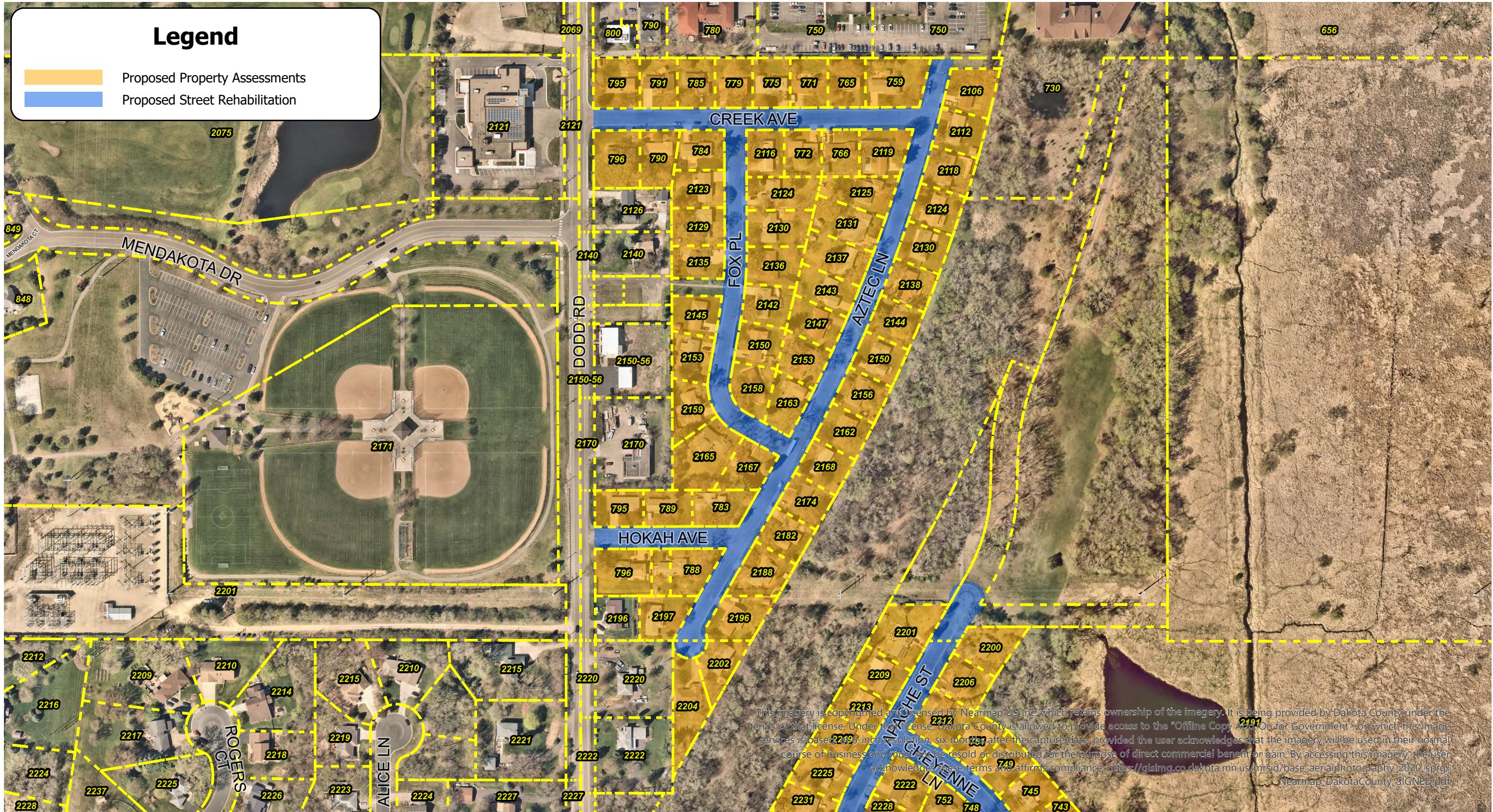


0 300
SCALE IN FEET



Legend

- Proposed Property Assessments (Yellow)
- Proposed Street Rehabilitation (Blue)



Friendly Hills Neighborhood Improvements Project Area



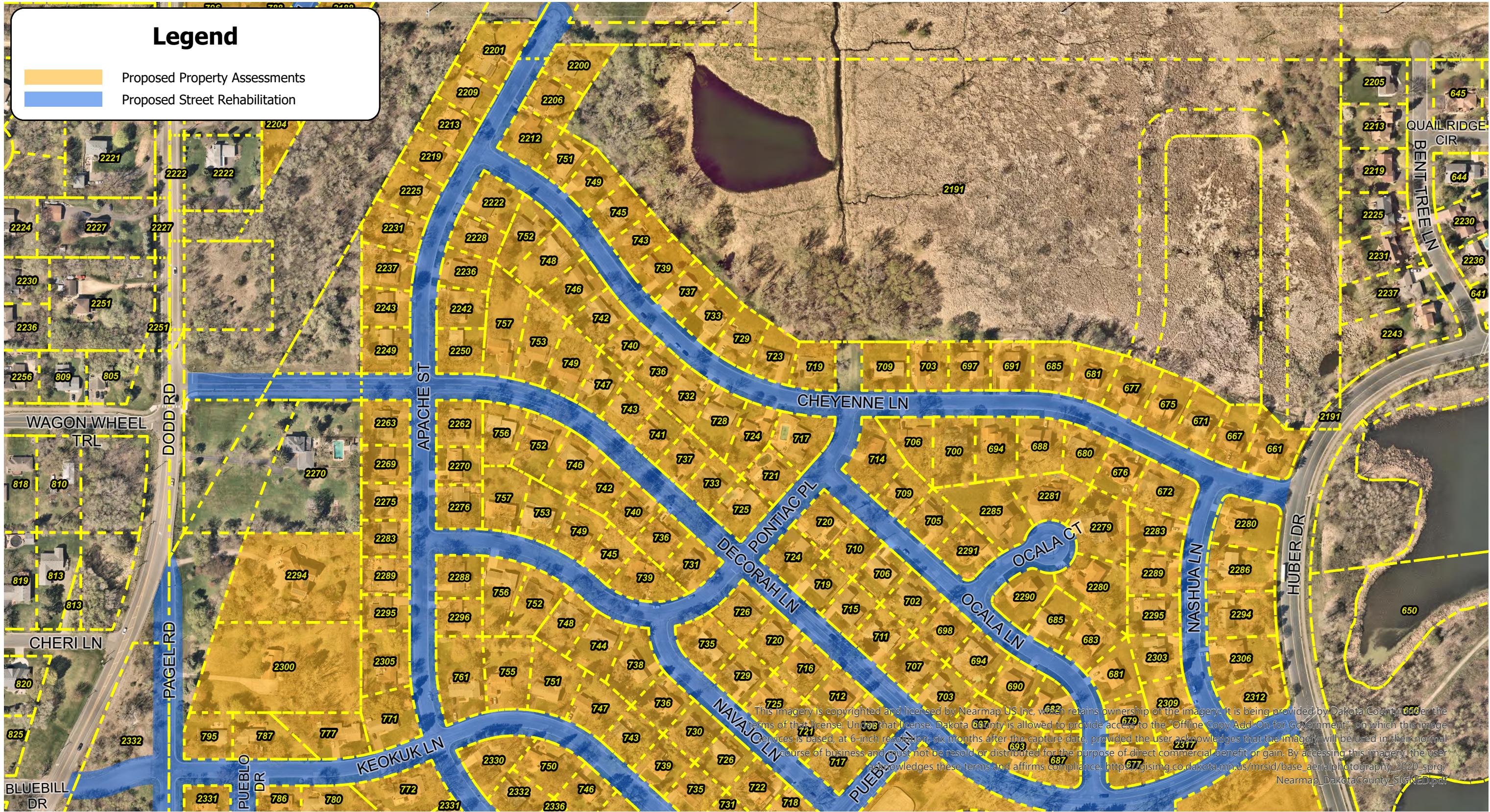
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SCALE IN FEET



Date: 6/25/2024

Legend

- Proposed Property Assessments
- Proposed Street Rehabilitation



Friendly Hills Neighborhood Improvements Project Area

Date: 6/25/2024

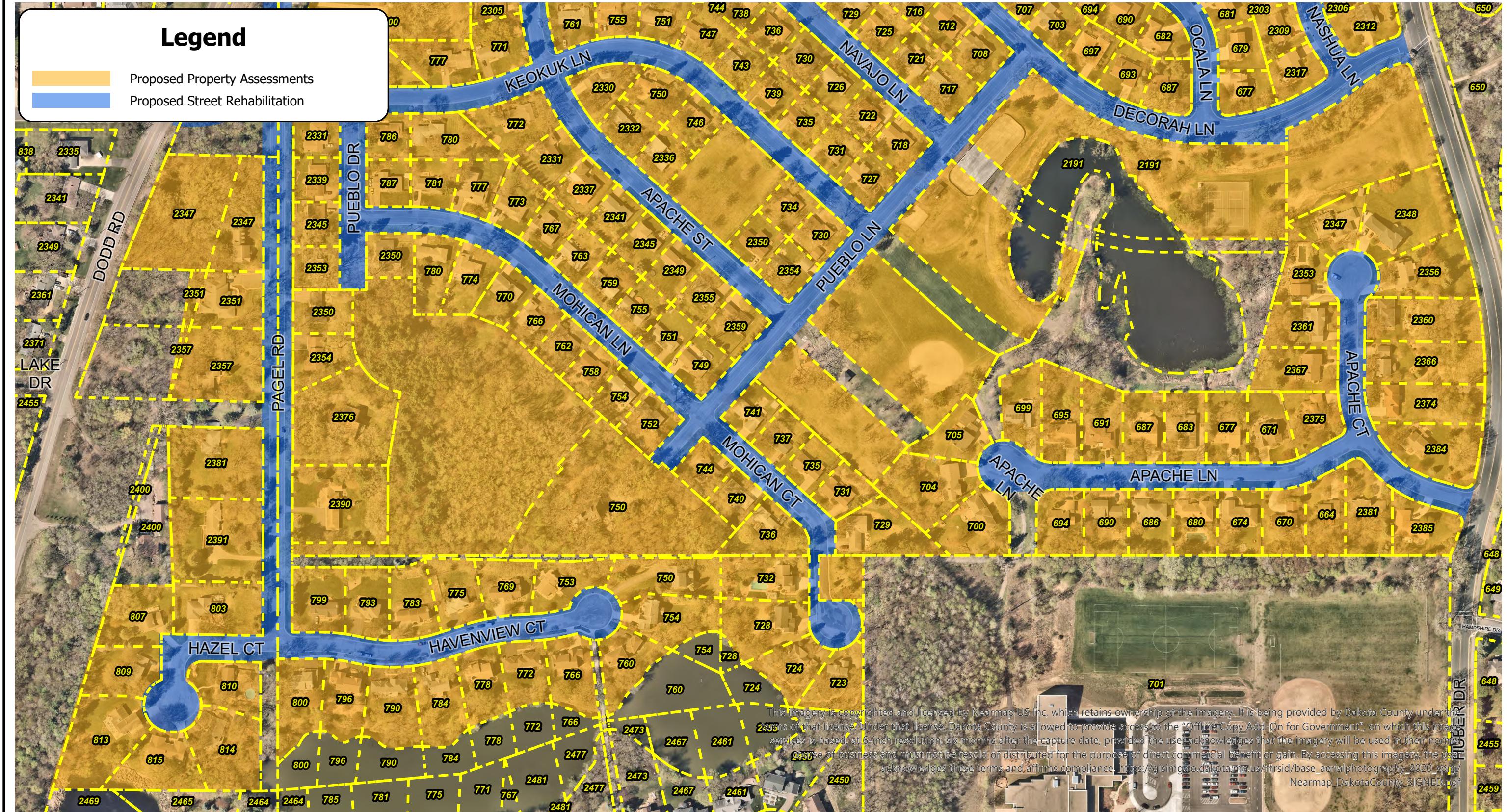


0 300
SCALE IN FEET



Legend

- Proposed Property Assessments
- Proposed Street Rehabilitation



City of Mendota Heights - Assessment Roll

Draft

Friendly Hills

Job # 202407

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-03600-26-020	CHARLES S & JEAN MATHISON 2294 DODD ROAD MENDOTA HEIGHTS MN 55120	SECTION 36 TWN 28 RANGE 23	36 28 23	Street Rehab	\$7,686.91
27-03600-26-030	FRANK PILNEY 1867 WARRIOR DR MENDOTA HEIGHTS MN 55118	SECTION 36 TWN 28 RANGE 23	36 28 23	Street Rehab	\$7,686.91
27-03600-27-010	THOMAS A DAHL MEGAN R DAHL 2390 PAGEL RD MENDOTA HEIGHTS MN 55120	SECTION 36 TWN 28 RANGE 23	36 28 23	Street Rehab	\$7,686.91
27-03600-50-010	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	SECTION 36 TWN 28 RANGE 23	36 28 23	Street Rehab	\$7,686.91
27-15152-00-030	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	BRIDGEVIEW SHORES 3RD ADD	C	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-15152-01-010	JOHN & RACHEL WERNER 799 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	1 1	Street Rehab	\$7,686.91
27-15152-01-020	KEVIN K & WENDY F DYBDAL 793 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	2 1	Street Rehab	\$7,686.91
27-15152-01-030	MATTHEW BENIAK COURTNEY BENIAK 783 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	3 1	Street Rehab	\$7,686.91
27-15152-01-040	ROTH A & KATIE E KERSTEN 775 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	4 1	Street Rehab	\$7,686.91
27-15152-01-050	DAVID G & CAROL J TSTES HOPLIN 769 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	5 1	Street Rehab	\$7,686.91
27-15152-01-060	MAX M & KATHRYN B SCHWAY 753 HAVENVIEW CT SAINT PAUL MN 55120-1800	BRIDGEVIEW SHORES 3RD ADD	6 1	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-15152-01-070	JOSE & BRITTANY FRIAS 750 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	7 1	Street Rehab	\$7,686.91
27-15152-01-080	DENNIS L & CAROL A MASHUGA 754 HAVENVIEW CT SAINT PAUL MN 55120-1800	BRIDGEVIEW SHORES 3RD ADD	8 1	Street Rehab	\$7,686.91
27-15152-01-090	TODD A & MELISSA S WICKARD 760 HAVENVIEW CT SAINT PAUL MN 55120-1800	BRIDGEVIEW SHORES 3RD ADD	9 1	Street Rehab	\$7,686.91
27-15152-01-100	THOMAS R KRAMER SHIRLEY N KRAMER 732 MOHICAN CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	10 1	Street Rehab	\$7,686.91
27-15152-01-110	DAVID R & STACY S JACOBSON 728 MOHICAN CT SAINT PAUL MN 55120-1632	BRIDGEVIEW SHORES 3RD ADD	11 1	Street Rehab	\$7,686.91
27-15152-01-120	GREGORY N & JUANA V SEIVERT 724 MOHICAN CT SAINT PAUL MN 55120-1632	BRIDGEVIEW SHORES 3RD ADD	12 1	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-15152-01-130	ROGER J TSTE CORNETTO 723 MOHICAN CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	13 1	Street Rehab	\$7,686.91
27-15152-02-010	STEPHEN G III KMETZ LAURA KMETZ 800 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	1 2	Street Rehab	\$7,686.91
27-15152-02-020	RICHARD E NELSON JENNIFER M JOHNSON 796 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	2 2	Street Rehab	\$7,686.91
27-15152-02-030	PETER A & TERESA B MOLINARO 790 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	3 2	Street Rehab	\$7,686.91
27-15152-02-040	MICHAEL & SARAH BOWSER AGAN 784 HAVENVIEW CT MENDOTA HEIGHTS MN 55120	BRIDGEVIEW SHORES 3RD ADD	4 2	Street Rehab	\$7,686.91
27-15152-02-050	DOUGLAS HUGHES JOHANA LISBETH HUGHES 778 HAVENVIEW CT MENDOTA HEIGHTS MN 55118	BRIDGEVIEW SHORES 3RD ADD	5 2	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-15152-02-060	JEFFREY R DOMLER JOAN M DOMLER 772 HAVENVIEW CT SAINT PAUL MN 55120-1800	BRIDGEVIEW SHORES 3RD ADD	6 2	Street Rehab	\$7,686.91
27-15152-02-070	THOMAS & MARY ANN ORFEI 766 HAVENVIEW CT SAINT PAUL MN 55120-1800	BRIDGEVIEW SHORES 3RD ADD	7 2	Street Rehab	\$7,686.91
27-19850-00-020	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	DELAWARE CROSSING	B	Street Rehab	\$7,686.91
27-19850-00-020	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	DELAWARE CROSSING	B	Street Rehab	\$7,686.91
27-19850-00-020	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	DELAWARE CROSSING	B	Street Rehab	\$7,686.91
27-19850-01-010	CRISTINA MELISSA GILLETTE 661 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	1 1	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-19850-01-020	JOHN G TSTE & BARBARA A TSTE CONWAY 667 CHEYENNE LN MENDOTA HEIGHTS MN 55120-1687	DELAWARE CROSSING	2 1	Street Rehab	\$7,686.91
27-19850-01-030	REED CATINO 671 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	3 1	Street Rehab	\$7,686.91
27-19850-01-040	KATRIN M CHRISTENSEN-COWAN DANIEL G CHRISTENSEN-COWAN 675 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	4 1	Street Rehab	\$7,686.91
27-19850-01-050	KATHLEEN A REDPATH 677 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	5 1	Street Rehab	\$7,686.91
27-19850-01-060	WAYNE H & SUSAN L KAHLER 681 CHEYENNE LN SAINT PAUL MN 55120-1687	DELAWARE CROSSING	6 1	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-19850-01-070	JUNE LENORE BOADWINE LIVING TRUST 685 CHEYENNE LN SAINT PAUL MN 55120	DELAWARE CROSSING	7 1	Street Rehab	\$7,686.91
27-19850-01-080	GORDON E & JANE M SKJERVEN 691 CHEYENNA LN SAINT PAUL MN 55120-1687	DELAWARE CROSSING	8 1	Street Rehab	\$7,686.91
27-19850-01-090	EVAN TSTE SKILLMAN CELINE TSTE LEATHEAD 697 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	9 1	Street Rehab	\$7,686.91
27-19850-02-060	CHUNG L & BO S KUO 2312 NASHUA LANE MENDOTA HEIGHTS MN 55120-1667	DELAWARE CROSSING	6 2	Street Rehab	\$7,686.91
27-19850-03-010	ANDREW P & STACI A GORSKI 700 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	1 3	Street Rehab	\$7,686.91
27-19850-03-020	MEGAN & ALEXANDER FREY 694 CHEYENNE LN MENDOTA HEIGHTS MN 55120-1686	DELAWARE CROSSING	2 3	Street Rehab	\$7,686.91

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27-19850-03-030	ERIN ELIZABETH YOUNG ERIC LARSEN YOUNG 688 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	3 3	Street Rehab	\$7,686.91
27-19850-03-040	JOHN F JR & PAULINE PROUT 680 CHEYENNE SAINT PAUL MN 55120-1686	DELAWARE CROSSING	4 3	Street Rehab	\$7,686.91
27-19850-03-050	MOLLY J CHURCHILL CALEB J CHURCHILL 676 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	5 3	Street Rehab	\$7,686.91
27-19850-03-060	JAMES W WOLLOCK REBECCA C GUZA 672 CHEYENNE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	6 3	Street Rehab	\$7,686.91
27-19850-03-070	DANIEL A FRIEDRICH DAPHNE M MOUTSOGLOU 2283 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	7 3	Street Rehab	\$7,686.91
27-19850-03-080	DANIEL J & ANGELA M SCHAEFER 2289 NASHUA LN SAINT PAUL MN 55120-1645	DELAWARE CROSSING	8 3	Street Rehab	\$7,686.91

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27-19850-03-090	KEVIN P & RACHELLE M STIMPLE 2295 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	9 3	Street Rehab	\$7,686.91
27-19850-03-100	MICHAEL T & PATRICIA ANDERSON 2303 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	10 3	Street Rehab	\$7,686.91
27-19850-03-110	LYNN M LINDGREN STEPHEN J SR LINDGREN 2309 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	11 3	Street Rehab	\$7,686.91
27-19850-03-120	ALICIA FRANCK ETHAN MERRICK 2317 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	12 3	Street Rehab	\$7,686.91
27-19850-03-130	CRAIG F & CAROL C BORCHARD 677 OCALA LN SAINT PAUL MN 55120-1664	DELAWARE CROSSING	13 3	Street Rehab	\$7,686.91
27-19850-03-140	LAWRENCE LUKOSKIE 679 OCALA SAINT PAUL MN 55120-1664	DELAWARE CROSSING	14 3	Street Rehab	\$7,686.91

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27-19850-03-150	NICOLE HERRMANN JAYMIK HERRMANN 681 OCALA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	15 3	Street Rehab	\$7,686.91
27-19850-03-160	KENNETH & B R SCHWEIGER 683 OCALA LN SAINT PAUL MN 55120-1664	DELAWARE CROSSING	16 3	Street Rehab	\$7,686.91
27-19850-03-170	TIMOTHY & LINDA BAUMGARTNER 685 OCALA LN SAINT PAUL MN 55120-1664	DELAWARE CROSSING	17 3	Street Rehab	\$7,686.91
27-19850-03-180	WILLIAM JR & KAREN MONAHAN 2290 OCALA CT SAINT PAUL MN 55120-1646	DELAWARE CROSSING	18 3	Street Rehab	\$7,686.91
27-19850-03-240	RYAN J DEACON BROOKE J DEACON 2291 OCALA CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	24 3	Street Rehab	\$7,686.91
27-19850-03-250	KRISTIE S EDINGER 705 OCALA LN MENDOTA HEIGHTS MN 55120-1660	DELAWARE CROSSING	25 3	Street Rehab	\$7,686.91

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27-19850-04-010	DALE & GENEVIEVE KONETSCHKA 698 OCALA LN MENDOTA HEIGHTS MN 55120-1636	DELAWARE CROSSING	1 4	Street Rehab	\$7,686.91
27-19850-04-020	MARK T & SHARON M GOBLISCH 694 OCALA LN MENDOTA HEIGHTS MN 55120-1636	DELAWARE CROSSING	2 4	Street Rehab	\$7,686.91
27-19850-04-030	CHRISTOPHER J & BETH POPE 690 OCALA LN SAINT PAUL MN 55120-1636	DELAWARE CROSSING	3 4	Street Rehab	\$7,686.91
27-19850-04-040	PAMELA J MILLER 682 OCALA LN MENDOTA HEIGHTS MN 55120-1636	DELAWARE CROSSING	4 4	Street Rehab	\$7,686.91
27-19850-04-050	MITCHELL T WITTENBERG JAINE STRAUSS 687 DECORAH LN SAINT PAUL MN 55120-1672	DELAWARE CROSSING	5 4	Street Rehab	\$7,686.91
27-19850-04-060	STEVEN C & KIM PRICE 693 DECORAH LN SAINT PAUL MN 55120-1672	DELAWARE CROSSING	6 4	Street Rehab	\$7,686.91

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27-19850-04-070	MICHELE KADRIE 697 DECORAH LN MENDOTA HEIGHTS MN 55120-1672	DELAWARE CROSSING	7 4	Street Rehab	\$7,686.91
27-19850-05-010	KEVIN & MAUREEN TSTE LAHR 2384 APACHE CT SAINT PAUL MN 55120-1684	DELAWARE CROSSING	1 5	Street Rehab	\$7,686.91
27-19850-05-020	BENJAMIN L SAXON HAYLEE M SAXON 2374 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	2 5	Street Rehab	\$7,686.91
27-19850-05-030	JOSEPH D & JOAN D NELSON 2366 APACHE CT SAINT PAUL MN 55120-1684	DELAWARE CROSSING	3 5	Street Rehab	\$7,686.91
27-19850-05-040	ROBERT & C A SJOBERG 2360 APACHE CT SAINT PAUL MN 55120-1684	DELAWARE CROSSING	4 5	Street Rehab	\$7,686.91
27-19850-05-050	KEITH J & KIMBERLY A OBIEN 2356 APACHE CT SAINT PAUL MN 55120-1684	DELAWARE CROSSING	5 5	Street Rehab	\$7,686.91

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27-19850-05-060	JOHN M & PAULA M CAMPBELL 2348 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	6 5	Street Rehab	\$7,686.91
27-19850-05-070	SUSAN TERVOLA 2347 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	7 5	Street Rehab	\$7,686.91
27-19850-05-080	MARJORIE A JACOB RONALD J JACOB 2353 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	8 5	Street Rehab	\$7,686.91
27-19850-05-090	EUGENE & JULIA PRIBORKIN 2361 APACHE CT SAINT PAUL MN 55120-1683	DELAWARE CROSSING	9 5	Street Rehab	\$7,686.91
27-19850-05-100	ALEX & RIVA GINZBURG LIVING TRUST 2367 APACHE CT SAINT PAUL MN 55120	DELAWARE CROSSING	10 5	Street Rehab	\$7,686.91
27-19850-05-110	STEPHEN RICHARDSON ANGELA M RICHARDSON 2375 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	11 5	Street Rehab	\$7,686.91

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27-19850-05-120	TIM J OSKEY WENDY ROGOVIN OSKEY 671 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	12 5	Street Rehab	\$7,686.91
27-19850-05-130	CHAD D LEMMONS ROSE MARY HAYDEN LEMMONS 677 APACHE LN SAINT PAUL MN 55120-1671	DELAWARE CROSSING	13 5	Street Rehab	\$7,686.91
27-19850-05-140	SHAWN MURPHY AMY MURPHY 683 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	14 5	Street Rehab	\$7,686.91
27-19850-05-150	GREGORY P TSCHANN SUPHALA U TSCHANN 687 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	15 5	Street Rehab	\$7,686.91
27-19850-05-160	KENDAL A & MARLENE G FITZER 691 APACHE LN SAINT PAUL MN 55120-1671	DELAWARE CROSSING	16 5	Street Rehab	\$7,686.91
27-19850-05-170	DEAN E MCDOWELL DONNY R MCKINNEY 695 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	17 5	Street Rehab	\$7,686.91

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27-19850-05-180	RAMAIAH TSTE MUTHYALA VIMALA DEVI TSTE MUTHYALA 699 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	18 5	Street Rehab	\$7,686.91
27-19850-06-010	ALLEN L & CAROL PETERSON 2385 APACHE CT SAINT PAUL MN 55120-1649	DELAWARE CROSSING	1 6	Street Rehab	\$7,686.91
27-19850-06-020	DOUGLAS FORGIT ELIZABETH PESEK 2381 APACHE CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	2 6	Street Rehab	\$7,686.91
27-19850-06-030	NICHOLAS AUGUSTIN SARA AUGUSTIN 664 APACHE LN MENDOTA HTS MN 55120	DELAWARE CROSSING	3 6	Street Rehab	\$7,686.91
27-19850-06-040	RICHARD J & BARBARA GABRIEL 670 APACHE LN SAINT PAUL MN 55120-1648	DELAWARE CROSSING	4 6	Street Rehab	\$7,686.91
27-19850-06-050	PATRICK J WALSH ANN M WALSH 674 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	5 6	Street Rehab	\$7,686.91

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27-19850-06-060	CARL J II & LINDA C SOMMERER 680 APACHE LANE SAINT PAUL MN 55120-1648	DELAWARE CROSSING	6 6	Street Rehab	\$7,686.91
27-19850-06-070	STEVEN & DEIRDRE GOLLINGER 686 APACHE LN SAINT PAUL MN 55120-1648	DELAWARE CROSSING	7 6	Street Rehab	\$7,686.91
27-19850-06-080	HANNAH ROSE LARSON BENJAMIN S LARSON 690 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	8 6	Street Rehab	\$7,686.91
27-19850-06-090	ANDREW SHOAF ASHLEY SHOAF 694 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	9 6	Street Rehab	\$7,686.91
27-19850-07-010	RICHARD G & PAMELA J KUNKEL 705 APACHE LN MENDOTA HEIGHTS MN 55120-1670	DELAWARE CROSSING	1 7	Street Rehab	\$7,686.91
27-19850-07-020	BRITT M KRINGLE MICHAEL A OHALLORAN 704 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	2 7	Street Rehab	\$7,686.91

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27-19850-07-030	STEVEN D MILLER JORDAN G MILLER 700 APACHE LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING	3 7	Street Rehab	\$7,686.91
27-19851-01-010	PATRICK RICHARD CONNELLY 2285 OCALA CT MENDOTA HTS MN 55120	DELAWARE CROSSING 2ND ADD	1 1	Street Rehab	\$7,686.91
27-19851-01-020	MICHAEL J & JULIE A FARLEY 2281 OCALA CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING 2ND ADD	2 1	Street Rehab	\$7,686.91
27-19851-01-030	PAUL C TSTE SKOGHEIM MARSHA K TSTE SKOGHEIM 2279 OCALA CT MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING 2ND ADD	3 1	Street Rehab	\$7,686.91
27-19851-01-040	STEVEN E & CATHERINE CHRISTENSEN 2280 OCALA CT MENDOTA HEIGHTS MN 55120-1646	DELAWARE CROSSING 2ND ADD	4 1	Street Rehab	\$7,686.91
27-19851-02-010	JAMES J & JEANNE E FECKEY 2280 NASHUA LN SAINT PAUL MN 55120-1641	DELAWARE CROSSING 2ND ADD	1 2	Street Rehab	\$7,686.91

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27-19851-02-020	TIMOTHY OLSEN AMBER OLSON 2286 NASHUA LN MENDOTA HEIGHTS MN 55120	DELAWARE CROSSING 2ND ADD	2 2	Street Rehab	\$7,686.91
27-19851-02-030	PAUL F & BEVERLY B DOYLE 2294 NASHUA LN MENDOTA HEIGHTS MN 55120-1641	DELAWARE CROSSING 2ND ADD	3 2	Street Rehab	\$7,686.91
27-19851-02-040	RYAN A NELSON 2306 NASHUA LN MENDOTA HEIGHTS MN 55120-1667	DELAWARE CROSSING 2ND ADD	4 2	Street Rehab	\$7,686.91
27-27800-01-010	CALVIN STEVEN SCHILTZ SAIREY GERNES 759 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 1	Street Rehab	\$7,686.91
27-27800-01-020	RAND R WISCHMANN 765 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	2 1	Street Rehab	\$7,686.91
27-27800-01-030	JENNIFER R SCHILLING 771 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 1	Street Rehab	\$7,686.91

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27- 27800- 01-040	RANDAL & DEBRA SWENSON 775 CREEK AVE SAINT PAUL MN 55120-1615	FRIENDLY HILLS REARR	4 1	Street Rehab	\$7,686.91
27- 27800- 01-050	MARTHA L SWENSON 779 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 1	Street Rehab	\$7,686.91
27- 27800- 01-060	DANIEL M DREELAN 785 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 1	Street Rehab	\$7,686.91
27- 27800- 01-070	DANIEL JOHNSON REBECCA MARRS 791 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 1	Street Rehab	\$7,686.91
27- 27800- 01-080	DANIEL G & KATHLEEN MARIE IVERSON 795 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	8 1	Street Rehab	\$7,686.91
27- 27800- 02-020	ROBERT S ADAMS 796 CREEK AVE SAINT PAUL MN 55120-1616	FRIENDLY HILLS REARR	2 2	Street Rehab	\$7,686.91

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27- 27800- 02-030	ARTURO II MATA 790 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 2	Street Rehab	\$7,686.91
27- 27800- 02-040	DALE STEIN 784 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	4 2	Street Rehab	\$7,686.91
27- 27800- 02-050	KYLTIA M WIRTH 2123 FOX PL SAINT PAUL MN 55120-1625	FRIENDLY HILLS REARR	5 2	Street Rehab	\$7,686.91
27- 27800- 02-060	MARY JENETTE LUNA 2129 FOX PL EAGAN MN 55120	FRIENDLY HILLS REARR	6 2	Street Rehab	\$7,686.91
27- 27800- 02-070	DAVID J WINGE 2135 FOX PL SAINT PAUL MN 55120-1625	FRIENDLY HILLS REARR	7 2	Street Rehab	\$7,686.91
27- 27800- 03-010	CHAD C TROCHLIL 2145 FOX PL MENDOTA HEIGHTS MN 55120-1625	FRIENDLY HILLS REARR	1 3	Street Rehab	\$7,686.91

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27- 27800- 03-020	BETH Y HENRY 2153 FOX PL SAINT PAUL MN 55120-1625	FRIENDLY HILLS REARR	2 3	Street Rehab	\$7,686.91
27- 27800- 03-030	DENNIS E & JUDY A MCCARDLE 2159 FOX PL SAINT PAUL MN 55120-1625	FRIENDLY HILLS REARR	3 3	Street Rehab	\$7,686.91
27- 27800- 03-040	CHARLES E & LYNEE D JACOBUCCI 2165 FOX PLACE SAINT PAUL MN 55120-1625	FRIENDLY HILLS REARR	4 3	Street Rehab	\$7,686.91
27- 27800- 03-050	SEBRINA COON SAMUEL COON 2167 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 3	Street Rehab	\$7,686.91
27- 27800- 03-060	WALLACE & ELIZABETH SPITTLE 783 HOKAH AVE SAINT PAUL MN 55120-1627	FRIENDLY HILLS REARR	6 3	Street Rehab	\$7,686.91
27- 27800- 03-070	MARK J MASON 8617 WEST POINT DOUGLAS RD S STE 150 COTTAGE GROVE MN 55016	FRIENDLY HILLS REARR	7 3	Street Rehab	\$7,686.91

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27- 27800- 03-080	THOMAS G & JULIANNE TOTH 795 HOKAH AVE SAINT PAUL MN 55120-1627	FRIENDLY HILLS REARR	8 3	Street Rehab	\$7,686.91
27- 27800- 04-010	CRAIG D & NAN A JAEGER 2119 AZTEC LN SAINT PAUL MN 55120-1607	FRIENDLY HILLS REARR	1 4	Street Rehab	\$7,686.91
27- 27800- 04-020	JOHN P BRENNE ANDREA M BRENNE 766 CREEK AVE MENDOTA HEIGHTS MN 55120-1688	FRIENDLY HILLS REARR	2 4	Street Rehab	\$7,686.91
27- 27800- 04-030	CHERRIE A GREEN 772 CREEK AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 4	Street Rehab	\$7,686.91
27- 27800- 04-040	EDWARD & BRITTANY PATERSON 2116 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	4 4	Street Rehab	\$7,686.91
27- 27800- 04-050	TRACIA RENEE POLDEN 2124 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 4	Street Rehab	\$7,686.91

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27- 27800- 04-060	STEPHANIE R COLLETTE 2130 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 4	Street Rehab	\$7,686.91
27- 27800- 04-070	REED T LARSON ALLISON J LARSON 2136 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 4	Street Rehab	\$7,686.91
27- 27800- 04-080	KELLY VEAZIE 2142 FOX PL MENDOTA HEIGHTS MN 55120-1624	FRIENDLY HILLS REARR	8 4	Street Rehab	\$7,686.91
27- 27800- 04-090	GARY JOSEPH & MARY H FISCHBACH 2150 FOX PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 4	Street Rehab	\$7,686.91
27- 27800- 04-100	BRADLEY & PATRICIA HERBERT 2158 FOX PL SAINT PAUL MN 55120-1624	FRIENDLY HILLS REARR	10 4	Street Rehab	\$7,686.91
27- 27800- 04-110	PAUL T & MOIRA S HEINICKE 2163 AZTEC LN MENDOTA HEIGHTS MN 55120-1607	FRIENDLY HILLS REARR	11 4	Street Rehab	\$7,686.91

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27- 27800- 04-120	ELIZABETH J & THOMAS DUNHAM 2153 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	12 4	Street Rehab	\$7,686.91
27- 27800- 04-130	DON & GLENYCE HARRINGTON 2147 AZTEC LN SAINT PAUL MN 55120-1607	FRIENDLY HILLS REARR	13 4	Street Rehab	\$7,686.91
27- 27800- 04-140	THOMAS L BONNETT 2143 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	14 4	Street Rehab	\$7,686.91
27- 27800- 04-150	BRYAN M KNUTSEN JENNIFER K LUTZ 2137 AZTEC LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	15 4	Street Rehab	\$7,686.91
27- 27800- 04-160	DENNIS & C M MATYKIEWICZ 2131 AZTEC LN SAINT PAUL MN 55120-1607	FRIENDLY HILLS REARR	16 4	Street Rehab	\$7,686.91
27- 27800- 04-170	SCOTT ALAN SCHROEDER 2125 AZTEC LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 4	Street Rehab	\$7,686.91

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27- 27800- 05-010	JUAN BUENO RAMOS NORMA BUENO GOMEZ 2106 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	1 5	Street Rehab	\$7,686.91
27- 27800- 05-020	MICHAEL J ENGEL JENNIFER J TSCHIDA 2112 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	2 5	Street Rehab	\$7,686.91
27- 27800- 05-030	JAMES M HESSLER 2118 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	3 5	Street Rehab	\$7,686.91
27- 27800- 05-040	A J & RUTH FISHER HIPP 2124 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	4 5	Street Rehab	\$7,686.91
27- 27800- 05-050	MINDY L MIKLYA 2130 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 5	Street Rehab	\$7,686.91
27- 27800- 05-060	MARY ROSE TURNER 2138 AZTEC LN MENDOTA HEIGHTS MN 55120-1608	FRIENDLY HILLS REARR	6 5	Street Rehab	\$7,686.91

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27- 27800- 05-070	TIMOTHY CUTTING 2144 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	7 5	Street Rehab	\$7,686.91
27- 27800- 05-080	DARRELL L & SUE A TUTEWOHL 2150 AZTEC LN SAINT PAUL MN 55120-1608	FRIENDLY HILLS REARR	8 5	Street Rehab	\$7,686.91
27- 27800- 05-090	SARA J LARSEN 2156 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 5	Street Rehab	\$7,686.91
27- 27800- 05-100	HANNAH DAHL 2162 AZTEC LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	10 5	Street Rehab	\$7,686.91
27- 27800- 05-110	LAURA & ANTHONY MOGELSON 2168 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 5	Street Rehab	\$7,686.91
27- 27800- 05-120	KATHY A MALONEY 2174 AZTEC LN MENDOTA HEIGHTS MN 55120-1608	FRIENDLY HILLS REARR	12 5	Street Rehab	\$7,686.91

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27-27800-05-130	WILLIAM D KOKKILA 2182 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	13 5	Street Rehab	\$7,686.91
27-27800-05-140	STACY JEAN STYLES 2188 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	14 5	Street Rehab	\$7,686.91
27-27800-05-150	REBECCA BOLDEN WEBB 2196 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	15 5	Street Rehab	\$7,686.91
27-27800-05-160	JESSICA ALLISON & GREGORY M KELLER 2202 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	16 5	Street Rehab	\$7,686.91
27-27800-05-170	ERIK SWENSON 2204 AZTEC LN SAINT PAUL MN 55120-1609	FRIENDLY HILLS REARR	17 5	Street Rehab	\$7,686.91
27-27800-05-180	GRETCHEN C BECHERER 2197 AZTEC LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 5	Street Rehab	\$7,686.91

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27- 27800- 05-210	DANIEL & ALISON OBER 796 HOKAH AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	21 5	Street Rehab	\$7,686.91
27- 27800- 05-221	MICHAEL D ZISKIN 788 HOKAH AVE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	22 5	Street Rehab	\$7,686.91
27- 27800- 07-030	CHRISTINA A WALLACE 2201 APACHE ST MENDOTA HEIGHTS MN 55120-1602	FRIENDLY HILLS REARR	3 7	Street Rehab	\$7,686.91
27- 27800- 07-040	ELIZABETH A TSTE GLEISNER JOYCE A TSTE ST JOHN 2209 APACHE ST SAINT PAUL MN 55120-1602	FRIENDLY HILLS REARR	4 7	Street Rehab	\$7,686.91
27- 27800- 07-050	ROBERT BOROVANSKY 2213 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 7	Street Rehab	\$7,686.91
27- 27800- 07-060	BOLTON PROPERTIES LLC 780 PLAZA DR S ST PAUL MN 55120	FRIENDLY HILLS REARR	6 7	Street Rehab	\$7,686.91

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27- 27800- 07-070	ABOUD D & SHEILA K HILO 2225 APACHE ST SAINT PAUL MN 55120-1602	FRIENDLY HILLS REARR	7 7	Street Rehab	\$7,686.91
27- 27800- 07-080	STEVEN A & GAIL P KREY 2231 APACHE SAINT PAUL MN 55120-1602	FRIENDLY HILLS REARR	8 7	Street Rehab	\$7,686.91
27- 27800- 07-090	MICHAEL G & LISA G COONAN 2237 APACHE ST SAINT PAUL MN 55120-1602	FRIENDLY HILLS REARR	9 7	Street Rehab	\$7,686.91
27- 27800- 07-100	ANTHONY QUINN BUCHANAN 2243 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	10 7	Street Rehab	\$7,686.91
27- 27800- 07-110	MICHAEL T MEEKS 2249 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 7	Street Rehab	\$7,686.91
27- 27800- 09-010	REID M KUBAT CRYSTAL M KUBAT 719 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 9	Street Rehab	\$7,686.91

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27- 27800- 09-020	MARY S STIEGER 723 CHEYENNE LN MENDOTA HEIGHTS MN 55120-1613	FRIENDLY HILLS REARR	2 9	Street Rehab	\$7,686.91
27- 27800- 09-030	GREGG J & APRIL POLSKI 729 CHEYENNE LN SAINT PAUL MN 55120-1613	FRIENDLY HILLS REARR	3 9	Street Rehab	\$7,686.91
27- 27800- 09-040	BRUCE GOODWIN FRED GOODWIN 733 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	4 9	Street Rehab	\$7,686.91
27- 27800- 09-050	CLIFFORD J KIRCHNER 737 CHEYENNE LN SAINT PAUL MN 55120-1613	FRIENDLY HILLS REARR	5 9	Street Rehab	\$7,686.91
27- 27800- 09-060	DANIEL PIETRUSZEWSKI ABBY MULLENBACH 739 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 9	Street Rehab	\$7,686.91
27- 27800- 09-070	KONSTANCE & MUKHIYA GURUNG 743 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 9	Street Rehab	\$7,686.91

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27- 27800- 09-080	LOUISE L DORSCH 745 CHEYENNE LN MENDOTA HEIGHTS MN 55118	FRIENDLY HILLS REARR	8 9	Street Rehab	\$7,686.91
27- 27800- 09-090	DENISE F KIRCHNER 749 CHEYENNE LANE MENDOTA HEIGHTS MN 55120-1613	FRIENDLY HILLS REARR	9 9	Street Rehab	\$7,686.91
27- 27800- 09-100	JOHN P & LYNNE MACZKO 751 CHEYENNE LN SAINT PAUL MN 55120-1613	FRIENDLY HILLS REARR	10 9	Street Rehab	\$7,686.91
27- 27800- 09-110	GARY L JR CHRISTIANSON GRETCHEN E CHRISTIANSON 2212 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 9	Street Rehab	\$7,686.91
27- 27800- 09-120	BRIAN & KAREN BIRD 2206 APACHE ST SAINT PAUL MN 55120-1682	FRIENDLY HILLS REARR	12 9	Street Rehab	\$7,686.91
27- 27800- 09-130	NANCY J B ROMAS 2200 APACHE ST SAINT PAUL MN 55120-1682	FRIENDLY HILLS REARR	13 9	Street Rehab	\$7,686.91

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27- 27800- 10-010	DANE BEECHAM MARLENE BEECHAM 724 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 10	Street Rehab	\$7,686.91
27- 27800- 10-020	TEVIN JOHNSON 728 CHEYENNE LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	2 10	Street Rehab	\$7,686.91
27- 27800- 10-030	LIVING WELL DISABILITY SERVICES 1168 NORTHLAND DR MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 10	Street Rehab	\$7,686.91
27- 27800- 10-040	GREGORY M VASHRO MARY BETH VASHRO 3691 WINDTREE DR EAGAN MN 55123	FRIENDLY HILLS REARR	4 10	Street Rehab	\$7,686.91
27- 27800- 10-050	AMY LOOZE 740 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 10	Street Rehab	\$7,686.91
27- 27800- 10-060	JOSEPH & LUANN WITTRICK 742 CHEYENNE LN SAINT PAUL MN 55120-1614	FRIENDLY HILLS REARR	6 10	Street Rehab	\$7,686.91

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27- 27800- 10-070	MARY E CHISLER 746 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 10	Street Rehab	\$7,686.91
27- 27800- 10-080	LARRY D & MIRIAM HEINERT 748 CHEYENNE LN SAINT PAUL MN 55120-1614	FRIENDLY HILLS REARR	8 10	Street Rehab	\$7,686.91
27- 27800- 10-090	ANNA TILSEN-MOGENI 752 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 10	Street Rehab	\$7,686.91
27- 27800- 10-100	JAMES T & AMY S VOTEL 2222 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	10 10	Street Rehab	\$7,686.91
27- 27800- 10-110	NICHOLAS PALLEON 2228 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 10	Street Rehab	\$7,686.91
27- 27800- 10-120	THOMAS H & LOUISE LENTZ 2236 APACHE SAINT PAUL MN 55120-1601	FRIENDLY HILLS REARR	12 10	Street Rehab	\$7,686.91

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27- 27800- 10-130	JEFFREY D STENHAUG 2242 APACHE ST SAINT PAUL MN 55120-1601	FRIENDLY HILLS REARR	13 10	Street Rehab	\$7,686.91
27- 27800- 10-140	JOAN M FREDERICKSON 1843 COVINGTON LANE EAGAN MN 55122	FRIENDLY HILLS REARR	14 10	Street Rehab	\$7,686.91
27- 27800- 10-150	BRIAN THOMAS OKEEFE ANNE MARIE BOLAND OKEEFE 757 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	15 10	Street Rehab	\$7,686.91
27- 27800- 10-160	DARREL B & LOIS J KELSEY 625 DARWIN ST W LITCHFIELD MN 55355	FRIENDLY HILLS REARR	16 10	Street Rehab	\$7,686.91
27- 27800- 10-170	GARNET B HOLMSTADT 749 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 10	Street Rehab	\$7,686.91
27- 27800- 10-180	ELIZABETH K WATERS STEPHEN J WATERS 747 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 10	Street Rehab	\$7,686.91

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27- 27800- 10-190	DAVID NEUMANN 1838 MORGAN AVE SAINT PAUL MN 55116	FRIENDLY HILLS REARR	19 10	Street Rehab	\$7,686.91
27- 27800- 10-200	PAUL NIGON HANNAH RADANT 741 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	20 10	Street Rehab	\$7,686.91
27- 27800- 10-210	STEVEN & TERESA C MARKES 737 DECORAH LN MENDOTA HTS MN 55120	FRIENDLY HILLS REARR	21 10	Street Rehab	\$7,686.91
27- 27800- 10-220	BRENDA L GIESER JOHN W GIESER 733 DECORAH LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	22 10	Street Rehab	\$7,686.91
27- 27800- 10-230	MARCELLA L PEDERSEN 725 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	23 10	Street Rehab	\$7,686.91
27- 27800- 10-240	ROGER DAVID PLATH 721 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	24 10	Street Rehab	\$7,686.91

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27- 27800- 10-250	ROBERT MAXWELL SALMEN 717 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	25 10	Street Rehab	\$7,686.91
27- 27800- 11-010	OPAL HOMES 28 LLC 1335 CORPORATE CENTER CURV STE 150 EAGAN MN 55121	FRIENDLY HILLS REARR	1 11	Street Rehab	\$7,686.91
27- 27800- 11-020	GREGORY BOLTZ BOLTON 780 PLAZA DR S UNIT D MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	2 11	Street Rehab	\$7,686.91
27- 27800- 11-030	DAVID J DEEB 740 DECORAH LN SAINT PAUL MN 55120-1618	FRIENDLY HILLS REARR	3 11	Street Rehab	\$7,686.91
27- 27800- 11-040	MATTHEW JAMES KRIHA 742 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	4 11	Street Rehab	\$7,686.91
27- 27800- 11-050	COLIN GRIFFIN RADANT ANGELA SUE COWAN 746 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 11	Street Rehab	\$7,686.91

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27- 27800- 11-060	2008 REV TRUST OF DONALD J STAHL 205 MEADOW CIR S BURNSVILLE MN 55337	FRIENDLY HILLS REARR	6 11	Street Rehab	\$7,686.91
27- 27800- 11-070	LINDA M RICE 756 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 11	Street Rehab	\$7,686.91
27- 27800- 11-080	EPHREM MEHERETIA 2262 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	8 11	Street Rehab	\$7,686.91
27- 27800- 11-090	JEFFERY L EDDY DALE R TREXEL 2270 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 11	Street Rehab	\$7,686.91
27- 27800- 11-100	KELLY DANTER 2276 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	10 11	Street Rehab	\$7,686.91
27- 27800- 11-110	JOSEPH MESSEROLE RACHEL KUEPPERS 757 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 11	Street Rehab	\$7,686.91

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27- 27800- 11-120	JULIE HAUGEN TSTE JONES 753 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	12 11	Street Rehab	\$7,686.91
27- 27800- 11-130	MARCA & PATRICIA L ANGELL 749 PONTIAC PL SAINT PAUL MN 55120-1659	FRIENDLY HILLS REARR	13 11	Street Rehab	\$7,686.91
27- 27800- 11-140	LISA A GORDENIER 745 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	14 11	Street Rehab	\$7,686.91
27- 27800- 11-150	THOMAS M & MARGARET JOHNSON 739 PONTIAC PL SAINT PAUL MN 55120-1659	FRIENDLY HILLS REARR	15 11	Street Rehab	\$7,686.91
27- 27800- 12-010	DONALD D & MARJORIE JUDGE 727 KEOKUK LN SAINT PAUL MN 55120-1629	FRIENDLY HILLS REARR	1 12	Street Rehab	\$7,686.91
27- 27800- 12-020	NANCY T TSTE NYLIN 718 NAVAJO LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	2 12	Street Rehab	\$7,686.91

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27- 27800- 12-030	GAIL FRASER 722 NAVAJO LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 12	Street Rehab	\$7,686.91
27- 27800- 12-040	ANDREW & SHIRLEY THOLKE 726 NAVAJO LN SAINT PAUL MN 55120-1635	FRIENDLY HILLS REARR	4 12	Street Rehab	\$7,686.91
27- 27800- 12-050	RENEE J GUTZMAN 730 NAVAJO LN SAINT PAUL MN 55120-1635	FRIENDLY HILLS REARR	5 12	Street Rehab	\$7,686.91
27- 27800- 12-060	JAMES D VOLLMER & MARY E VOLLMER TRUST 736 NAVAJO LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 12	Street Rehab	\$7,686.91
27- 27800- 12-070	JESSICA J HUGHESDON 738 NAVAJO LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 12	Street Rehab	\$7,686.91
27- 27800- 12-080	MARK W COLLINS 744 PONTIAC PL SAINT PAUL MN 55120-1642	FRIENDLY HILLS REARR	8 12	Street Rehab	\$7,686.91

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27- 27800- 12-090	MARLYS REETZ 748 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 12	Street Rehab	\$7,686.91
27- 27800- 12-100	LUCILLE L TSTE RIDLEY 1786 HILLCREST AVE SAINT PAUL MN 55116	FRIENDLY HILLS REARR	10 12	Street Rehab	\$7,686.91
27- 27800- 12-110	ADAM R & SARAH A JOHNSON 756 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 12	Street Rehab	\$7,686.91
27- 27800- 12-120	JANET F CONWAY 2288 APACHE ST MENDOTA HEIGHTS MN 55120-1675	FRIENDLY HILLS REARR	12 12	Street Rehab	\$7,686.91
27- 27800- 12-130	JACOB E HUMBURG ALYSSA M HUMBURG 2296 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	13 12	Street Rehab	\$7,686.91
27- 27800- 12-140	CABRINI G BRANDL LINDA S MACKLEM 761 KEOKUK LN MENDOTA HEIGHTS MN 55120-1629	FRIENDLY HILLS REARR	14 12	Street Rehab	\$7,686.91

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27- 27800- 12-150	THOMAS ROBERT LEANDER SCHAEFER 755 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	15 12	Street Rehab	\$7,686.91
27- 27800- 12-160	KYLE S MICHEL LAUREN N TIERNEY 751 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	16 12	Street Rehab	\$7,686.91
27- 27800- 12-170	JAMES E III TSTE REUDELSTERZ 747 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 12	Street Rehab	\$7,686.91
27- 27800- 12-180	ELIAS S KRAMER JESSICA CORDOVA 743 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 12	Street Rehab	\$7,686.91
27- 27800- 12-190	BART A & WANDA L SCHEMPP 739 KEOKUK LN SAINT PAUL MN 55120-1629	FRIENDLY HILLS REARR	19 12	Street Rehab	\$7,686.91
27- 27800- 12-200	THOMAS F & EVELYN BERGMANN 735 KEOKUK SAINT PAUL MN 55120-1629	FRIENDLY HILLS REARR	20 12	Street Rehab	\$7,686.91

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27- 27800- 12-210	BLAKE A ROSENAU LAURIE L ROSENAU 731 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	21 12	Street Rehab	\$7,686.91
27- 27800- 13-010	SEAN M BOLAND EDWARD BOLAND 2263 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 13	Street Rehab	\$7,686.91
27- 27800- 13-020	JESSICA M BRANDOLF 2269 APACHE ST MENDOTA HEIGHTS MN 55120-1603	FRIENDLY HILLS REARR	2 13	Street Rehab	\$7,686.91
27- 27800- 13-030	RENE HEIDELBERG 2275 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 13	Street Rehab	\$7,686.91
27- 27800- 13-040	EUGENE D & K R HENRICKSON 2283 APACHE ST SAINT PAUL MN 55120-1603	FRIENDLY HILLS REARR	4 13	Street Rehab	\$7,686.91
27- 27800- 13-050	THOMAS V & JANET J PARRISH 2289 APACHE ST SAINT PAUL MN 55120-1603	FRIENDLY HILLS REARR	5 13	Street Rehab	\$7,686.91

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27- 27800- 13-060	JOEL CUTLER TSTE BENNETT JULIA WALSH TSTE BENNETT 2295 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 13	Street Rehab	\$7,686.91
27- 27800- 13-070	MICHAEL D HAYES HEIDI L EKSTROM 2305 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 13	Street Rehab	\$7,686.91
27- 27800- 13-080	DAVID K & SANDRA L TRUE 771 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	8 13	Street Rehab	\$7,686.91
27- 27800- 13-090	SANDRA J LUGER 777 KEOKUK LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 13	Street Rehab	\$7,686.91
27- 27800- 13-100	ROSEMARIE RUED 787 KEOKUK LN SAINT PAUL MN 55120-1631	FRIENDLY HILLS REARR	10 13	Street Rehab	\$7,686.91
27- 27800- 13-110	JEANNE JUVELI 795 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 13	Street Rehab	\$7,686.91

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27- 27800- 14-050	SAMUEL K & JANET D THOMPSON 703 CHEYENNE LN MENDOTA HEIGHTS MN 55120-1611	FRIENDLY HILLS REARR	5 14	Street Rehab	\$7,686.91
27- 27800- 14-060	ANDREW G MCCABE GINA R MCCABE 709 CHEYENNE LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 14	Street Rehab	\$7,686.91
27- 27800- 15-020	GAYL E ELIAS 706 CHEYENNE LN SAINT PAUL MN 55120-1612	FRIENDLY HILLS REARR	2 15	Street Rehab	\$7,686.91
27- 27800- 15-030	ANGELA J REGAN 714 PONTIAC PL SAINT PAUL MN 55120-1673	FRIENDLY HILLS REARR	3 15	Street Rehab	\$7,686.91
27- 27800- 15-040	DAVID C SPRINGMAN 709 OCALA LN SAINT PAUL MN 55120-1660	FRIENDLY HILLS REARR	4 15	Street Rehab	\$7,686.91
27- 27800- 16-090	JOEL S LANDSTEINER ADRIENNE MK LANDSTEINER 702 OCALA LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 16	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 16-100	TALIA E NELSON 706 OCALA LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	10 16	Street Rehab	\$7,686.91
27- 27800- 16-110	ELYSA J BURNS 710 OCALA LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	11 16	Street Rehab	\$7,686.91
27- 27800- 16-120	DAVID & SHELLEY JANECKY 720 PONTIAC PL SAINT PAUL MN 55120-1674	FRIENDLY HILLS REARR	12 16	Street Rehab	\$7,686.91
27- 27800- 16-130	JADE W TEMPLIN CYNTHIA C TEMPLIN 724 PONTIAC PL MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	13 16	Street Rehab	\$7,686.91
27- 27800- 16-140	JEFFREY & KARYL SCHULTZ 719 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	14 16	Street Rehab	\$7,686.91
27- 27800- 16-150	DAMON FARNSWORTH 715 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	15 16	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 16-160	DIANA L BOHNE CYNTHIA K LEMAY 711 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	16 16	Street Rehab	\$7,686.91
27- 27800- 16-170	CATHERINE A BURKE 707 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 16	Street Rehab	\$7,686.91
27- 27800- 16-180	PAUL T KEARNEY KRISTI A KEARNEY 703 DECORAH LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 16	Street Rehab	\$7,686.91
27- 27800- 17-010	MARK R & JANIS B AUNE 708 DECORAH SAINT PAUL MN 55120-1617	FRIENDLY HILLS REARR	1 17	Street Rehab	\$7,686.91
27- 27800- 17-020	NANCI FINE 712 DECORAH LN MENDOTA HEIGHTS MN 55120-1617	FRIENDLY HILLS REARR	2 17	Street Rehab	\$7,686.91
27- 27800- 17-030	JUSTIN & COREY MULLEN 716 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 17	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 17-040	ERIC M KRUGER HE HUANG 720 DECORAH LN MENDOTA HEIGHTS MN 55120-1617	FRIENDLY HILLS REARR	4 17	Street Rehab	\$7,686.91
27- 27800- 17-050	WILLIAM DAVID TSTE LEW RITA HELEN TSTE LEW 726 DECORAH LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 17	Street Rehab	\$7,686.91
27- 27800- 17-060	KATHLEEN A SHEMON 735 NAVAJO LN SAINT PAUL MN 55120	FRIENDLY HILLS REARR	6 17	Street Rehab	\$7,686.91
27- 27800- 17-070	DENNIS GREGORY HOYE POLLY ANN HOYE 729 NAVAJO LN SAINT PAUL MN 55120-1666	FRIENDLY HILLS REARR	7 17	Street Rehab	\$7,686.91
27- 27800- 17-080	DAVID A NELSON SHARON K FLOWERS 725 NAVAJO LN SAINT PAUL MN 55120-1666	FRIENDLY HILLS REARR	8 17	Street Rehab	\$7,686.91
27- 27800- 17-090	PATRICK T LARSON 721 NAVAJO LN SAINT PAUL MN 55120-1666	FRIENDLY HILLS REARR	9 17	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 17-100	MARY E MELZAREK 717 NAVAJO LN SAINT PAUL MN 55120-1666	FRIENDLY HILLS REARR	10 17	Street Rehab	\$7,686.91
27- 27800- 18-010	KELLI NIELSEN JOSEPH KERMIT NIELSEN 730 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 18	Street Rehab	\$7,686.91
27- 27800- 18-020	ROGER GRABOWSKI P DARLING 734 KEOKUK LN SAINT PAUL MN 55120-1628	FRIENDLY HILLS REARR	2 18	Street Rehab	\$7,686.91
27- 27800- 18-050	CHRISTINE MARIE LOOMIS 746 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 18	Street Rehab	\$7,686.91
27- 27800- 18-060	JAMES & BONITA HOLT 750 KEOKUK LN SAINT PAUL MN 55120-1628	FRIENDLY HILLS REARR	6 18	Street Rehab	\$7,686.91
27- 27800- 18-070	RUSSELL D JR TILLOTSON LINDA J CASSONE 2330 APACHE ST SAINT PAUL MN 55120-1606	FRIENDLY HILLS REARR	7 18	Street Rehab	\$7,686.91

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27- 27800- 18-080	CHARLES J & LOIS R PARSONS 2332 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	8 18	Street Rehab	\$7,686.91
27- 27800- 18-090	AUTUMN & JASON PLATZ 2336 APACHE ST MENDOTA HEIGHTS MN 55120-1606	FRIENDLY HILLS REARR	9 18	Street Rehab	\$7,686.91
27- 27800- 18-120	CEDRIC R TSTE SCHRANKLER JANET E TSTE SCHRANKLER 2350 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	12 18	Street Rehab	\$7,686.91
27- 27800- 18-130	ALICE M TSTE THESING 2354 APACHE ST MENDOTA HEIGHTS MN 55120-1606	FRIENDLY HILLS REARR	13 18	Street Rehab	\$7,686.91
27- 27800- 19-010	MARGARET ANN DINE 2359 APACHE ST MENDOTA HTS MN 55120	FRIENDLY HILLS REARR	1 19	Street Rehab	\$7,686.91
27- 27800- 19-020	EDWARD A & SALLY ANN TSTES TANDE 2355 APACHE ST MENDOTA HEIGHTS MN 55120-1605	FRIENDLY HILLS REARR	2 19	Street Rehab	\$7,686.91

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27-27800-19-030	JAMIE JOSEPHINE WESTRUM 2349 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 19	Street Rehab	\$7,686.91
27-27800-19-040	PAUL & G JOANNE CHAMBERLIN 2345 APACHE ST SAINT PAUL MN 55120-1605	FRIENDLY HILLS REARR	4 19	Street Rehab	\$7,686.91
27-27800-19-050	WILLIAM D WICKSTROM CAROL A WICKSTROM 2341 APACHE ST MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 19	Street Rehab	\$7,686.91
27-27800-19-060	RICHARD JR GAPINSKI LANNETTE PETERSON 2337 APACHE ST SAINT PAUL MN 55120-1605	FRIENDLY HILLS REARR	6 19	Street Rehab	\$7,686.91
27-27800-19-070	CRAIG M & KRISTINE M WANAMAKER 2331 APACHE ST SAINT PAUL MN 55120-1605	FRIENDLY HILLS REARR	7 19	Street Rehab	\$7,686.91
27-27800-19-080	DEREK MEYER 772 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	8 19	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 19-090	JENNIFER JO MUNSON JAY PAUL MILLER 780 KEOKUK LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	9 19	Street Rehab	\$7,686.91
27- 27800- 19-100	KATHLEEN SKRADSKI 786 KEOKUK LN SAINT PAUL MN 55120-1630	FRIENDLY HILLS REARR	10 19	Street Rehab	\$7,686.91
27- 27800- 19-110	BRIAN M & JAIME M MCBRIDE 787 MOHICAN LN SAINT PAUL MN 55120-1634	FRIENDLY HILLS REARR	11 19	Street Rehab	\$7,686.91
27- 27800- 19-120	MARIA C BIAGETTI CORTEZ HUGO R GARRIDO SANTANDER 781 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	12 19	Street Rehab	\$7,686.91
27- 27800- 19-130	RYAN P REGER CASSIE E TORBENSON 777 MOHICAN LANE MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	13 19	Street Rehab	\$7,686.91
27- 27800- 19-140	MICHAEL S LEECH JILL E HELLENBERG 773 MOHICAN LN SAINT PAUL MN 55120-1634	FRIENDLY HILLS REARR	14 19	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-27800-19-150	SHARON S LEAH MARK C LEMKE 767 MOHICAN LN SAINT PAUL MN 55120-1634	FRIENDLY HILLS REARR	15 19	Street Rehab	\$7,686.91
27-27800-19-160	EVERYDAY LIVING HOLDINGS LLC 355 15TH AVE N SOUTH SAINT PAUL MN 55075	FRIENDLY HILLS REARR	16 19	Street Rehab	\$7,686.91
27-27800-19-170	VANESSA R TRIER 759 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 19	Street Rehab	\$7,686.91
27-27800-19-180	LINDSEY ARZT 755 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 19	Street Rehab	\$7,686.91
27-27800-19-190	MICHAEL ALFRED MEYER 751 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	19 19	Street Rehab	\$7,686.91
27-27800-19-200	DARROW & LORI TSTE DACZYK 749 MOHICAN LN MENDOTA HEIGHTS MN 55120-1634	FRIENDLY HILLS REARR	20 19	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 20-011	HAYLEY HEIDELBERG SETH PROCTOR 752 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	1 20	Street Rehab	\$7,686.91
27- 27800- 20-020	ANNA M SEXTON MATTHEW W SEXTON 754 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	2 20	Street Rehab	\$7,686.91
27- 27800- 20-030	MAVIS KARN 758 MOHICAN LN SAINT PAUL MN 55120-1633	FRIENDLY HILLS REARR	3 20	Street Rehab	\$7,686.91
27- 27800- 20-040	MICHAEL B SCHOENECKER 762 MOHICAN LN MENDOTA HEIGHTS MN 55120-1633	FRIENDLY HILLS REARR	4 20	Street Rehab	\$7,686.91
27- 27800- 20-050	STEPHANIE MARIE HEIDELBERG 766 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	5 20	Street Rehab	\$7,686.91
27- 27800- 20-060	OMAR A DUENAS NICOLE M KETELAAR 770 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	6 20	Street Rehab	\$7,686.91

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27- 27800- 20-070	MICHAEL T WINTERS 774 MOHICAN LN MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	7 20	Street Rehab	\$7,686.91
27- 27800- 20-080	ALAN J & REA M KOREN 780 MOHICAN LN SAINT PAUL MN 55120-1633	FRIENDLY HILLS REARR	8 20	Street Rehab	\$7,686.91
27- 27800- 20-090	KENNETH B & MARY K WEISENBURGER 2350 PUEBLO DR SAINT PAUL MN 55120-1643	FRIENDLY HILLS REARR	9 20	Street Rehab	\$7,686.91
27- 27800- 21-010	DANIEL J KELLY DEBRA L KELLY 736 MOHICAN CT SAINT PAUL MN 55120-1632	FRIENDLY HILLS REARR	1 21	Street Rehab	\$7,686.91
27- 27800- 21-020	THOMAS C & MARSHA A KNUTH 740 MOHICAN CT MENDOTA HEIGHTS MN 55120-1632	FRIENDLY HILLS REARR	2 21	Street Rehab	\$7,686.91
27- 27800- 21-030	DAVID M MCMAHON 744 MOHICAN CT MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	3 21	Street Rehab	\$7,686.91

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27- 27800- 21-071	BERNARD P & DAMARIS FRIEL 750 MOHICAN LN SAINT PAUL MN 55120-1633	FRIENDLY HILLS REARR	7 21	Street Rehab	\$7,686.91
27- 27800- 21-143	BERNARD P & DAMARIS FRIEL 750 MOHICAN LN SAINT PAUL MN 55120-1633	FRIENDLY HILLS REARR	14 21	Street Rehab	\$7,686.91
27- 27800- 21-161	ERIC J THOMPSON CAROLYN THOMPSON 2376 PAGEL RD MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	16 21	Street Rehab	\$7,686.91
27- 27800- 21-170	BETHANY BERRY ANDREW WILSON 2354 PAGEL RD MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	17 21	Street Rehab	\$7,686.91
27- 27800- 21-180	MAYA RICHMAN DAVID WOLKOWICZ 2350 PAGEL RD MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	18 21	Street Rehab	\$7,686.91
27- 27800- 21-190	MARK G & KATHY ENDERLEIN 2353 PUEBLO DR SAINT PAUL MN 55120-1644	FRIENDLY HILLS REARR	19 21	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 21-201	MICHAEL & GAIL REGAN 2345 PUEBLO DR SAINT PAUL MN 55120-1644	FRIENDLY HILLS REARR	20 21	Street Rehab	\$7,686.91
27- 27800- 21-210	SCOTT C HENNING 2339 PUEBLO DR MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	21 21	Street Rehab	\$7,686.91
27- 27800- 21-220	NANCY E & WILLIAM A HESTER 2331 PUEBLO DR SAINT PAUL MN 55120-1644	FRIENDLY HILLS REARR	22 21	Street Rehab	\$7,686.91
27- 27800- 22-270	DONALD P & ALICE BAIER 741 MOHICAN CT SAINT PAUL MN 55120-1632	FRIENDLY HILLS REARR	27 22	Street Rehab	\$7,686.91
27- 27800- 22-280	ANDERS HENDRICKSON ANNIE HENDRICKSON 737 MOHICAN CT MENDOTA HEIGHTS MN 55120	FRIENDLY HILLS REARR	28 22	Street Rehab	\$7,686.91
27- 27800- 22-290	ROBERT E & SHERYL LEVERTON 735 MOHICAN CT SAINT PAUL MN 55120-1632	FRIENDLY HILLS REARR	29 22	Street Rehab	\$7,686.91

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27- 27800- 22-300	DOUGLAS J NEWBERG TERRY J NEWBERG-HACKETT 731 MOHICAN CT MENDOTA HEIGHTS MN 55120-1632	FRIENDLY HILLS REARR	30 22	Street Rehab	\$7,686.91
27- 27800- 22-310	STEVEN A MAGER JENNIFER M ONEILL-MAGER 729 MOHICAN CT SAINT PAUL MN 55120-1632	FRIENDLY HILLS REARR	31 22	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91

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27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27- 27800- 29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-27800-29-011	CITY OF MENDOTA HEIGHTS 1101 VICTORIA CURV SAINT PAUL MN 55118-4167	FRIENDLY HILLS REARR	1 29	Street Rehab	\$7,686.91
27-31900-00-012	JEFFREY & SUSAN KEIS 2347 PAGEL RD MENDOTA HEIGHTS MN 55120	HASELBERGER ADDITION	1	Street Rehab	\$7,686.91
27-31900-00-020	H TO H PROPERTIES LLC 829 TROTTERS RIDGE EAGAN MN 55123	HASELBERGER ADDITION	2	Street Rehab	\$7,686.91
27-31900-00-030	RAYMOND E JR HASELBERGER 2357 PAGEL RD MENDOTA HEIGHTS MN 55120	HASELBERGER ADDITION	3	Street Rehab	\$7,686.91
27-31900-00-040	FELIPE MATA 1919 KNOB RD MENDOTA HEIGHTS MN 55118	HASELBERGER ADDITION	4	Street Rehab	\$7,686.91
27-31900-00-050	JOHN M & EMILY L HARRISON 2391 PAGEL RD MENDOTA HEIGHTS MN 55120	HASELBERGER ADDITION	5	Street Rehab	\$7,686.91

<u>Parcel ID</u>	<u>Owner and Address</u>	<u>Legal</u>	<u>Lot and Block</u>	<u>Improvement</u>	<u>Amount</u>
27-31900-00-060	JANET C WALSH LUTZ M HESS 803 HAZEL CT SAINT PAUL MN 55120-1626	HASELBERGER ADDITION	6	Street Rehab	\$7,686.91
27-31900-00-130	JOHN F & SANDRA A O'BRIEN 807 HAZEL CT SAINT PAUL MN 55120-1626	HASELBERGER ADDITION	13	Street Rehab	\$7,686.91
27-68300-01-010	KENT R & CATHERINE EDWARDS 810 HAZEL CT SAINT PAUL MN 55120-1626	SIMEK REARRANGEMENT	1 1	Street Rehab	\$7,686.91
27-68300-01-020	JAMES & MARY ULLMAN EMMERICH 814 HAZEL CT MENDOTA HEIGHTS MN 55120	SIMEK REARRANGEMENT	2 1	Street Rehab	\$7,686.91
27-68300-01-030	JAMES P TSTE LOSLEBEN 815 HAZEL CT MENDOTA HEIGHTS MN 55120	SIMEK REARRANGEMENT	3 1	Street Rehab	\$7,686.91
27-68300-01-040	ELIZABETH LOUISE WILD LIVING TRUST 813 HAZEL CT MENDOTA HEIGHTS MN 55120	SIMEK REARRANGEMENT	4 1	Street Rehab	\$7,686.91

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27- 68300- 01-050	DANIEL COLTEN & KAREN CECILE BOGG 809 HAZEL CT MENDOTA HEIGHTS MN 55120	SIMEK REARRANGEMENT	5 1	Street Rehab	\$7,686.91

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Number of Properties:			Total Assessment		
365			\$2,805,722.15		

APPENDIX F – ENGAGEMENT SUMMARY

Name	Address	Phone	Email	Are you aware of any drainage issues on the roadways within the neighborhood?	If yes, when? (CHECK ALL THAT APPLY)			Please describe the drainage issues in the space below:			If yes, when? (CHECK ALL THAT APPLY)			Please describe the private drainage or erosion issues in the space below:			Do you have an underground lawn irrigation system in the City right-of-way? (Typically the right-of-way is 12' to 20' behind the roadway.)			Do you have any private wiring or pipes (i.e. invisible fence or sump drain outlet) in the City's right-of-way?			An off-street trail exists today along Decorah Lane between Dodd Road and Apache Street. Do you feel the City should encourage and allow use along the south side of Decorah Lane between Apache Street and Pueblo Lane? To make space available for a trail, on street parking would be removed along the south side of Decorah Lane within this segment.			Please provide additional comment here:			Do you feel the neighborhood has any potential or traffic issues (e.g. crossing adjacent to busy roadways, parking, excessive speed, traffic volumes, etc.)?			Are there intersections in the neighborhood where obstructions (trees, landscaping, etc.) make sight distance challenging?			If yes, where?			If yes, please describe the obstruction and location:			Do you feel there are locations in the neighborhood that require modifications to existing signage?			If yes, where?			Construction may disrupt the free flow of traffic and block access to properties at limited times. Please describe the access needs, delivery schedule, hours of operation, and labor force schedule for your business if applicable.	Additional Comments/Questions:
Open-Ended Response	Open-Ended Response	Open-Ended Response	Open-Ended Response	Response	After big rain storms	In the spring - during snow melt	After almost any rain or melting event	Open-Ended Response	Response	After big rain storms	In the spring - during snow melt	After almost any rain or melting event	Open-Ended Response	Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Open-Ended Response	Open-Ended Response	Open-Ended Response																	
Jeff and Joy Stenhaus	2242 Apache St	6514547444	jjstenhaug@comcast.net	No					Yes	After big rain storms	In the spring - during snow melt			No	No	No		Yes	Would like to see stop sign on Apache street onto Decorah	No		No							Get occasional deliveries	Terrible sewer smell often																		
Robb & Cheryl Borovansky	2213 Apache St	6519838219 & 6512692995	cboro78@yahoo.com	Yes	After big rain storms	In the spring - during snow melt			No					No	Yes	No		Yes	Crossing Dodd Rd at any point	Yes	East bound Emerson Ave at Delaware Ave. Due to the large Junction box, it's impossible to see traffic traveling Northbound on Delaware.	Yes	The traffic control sign at Apache St. & Decorah should be a stop sign and not a Yield sign. Many people get confused as to who has the right of way.																									
Amy Irene Firner	2143 AZTEC LN	6123823979	coral.stunner_0d@icloud.com	No					No					No	No	No		Yes	I still worry for anyone trying to cross 62 at Dodd. People don't seem to use the underground tunnel because it's not the shortest route.	No		Yes	Turtle crossing signs along Copperfield pond and Roger's Lake						How much is this going to cost the taxpayers?																			
Nancy Hester	2331 Pueblo Drive	651-454-2239		No					No					No	No	Yes		No		No			Yes	Keokuk Lane and Apache						Looking forward to improved pavement in this neighborhood. I've seen people in wheelchairs frustrated with the uneven and crusty pavement.																		
Beth Olson	2153 Fox Pl	651-683-0906	betholson58@gmail.com	Yes	In the spring - during snow melt				No					No	No	No	Indifferent, no strong feelings either way	Yes	Would be nice to cross Dodd to go to Mendakota park, but understand crosswalk 1 block north	Yes	Maple tree south of Holah is better since part removed, but still have to inch out a ways to see northbound Dodd traffic	No						NA	Will existing curb and gutter remain, or will that be redone?																			
Kent Edwards	810 Hazel Court	6513436928	kredwards3747@me.com	Yes			After almost any rain or melting event		No	Bottles form at the intersection of Havenview and Pagel Road					No	No	No		Yes	Dodd and pagel Dodd and Wagon Wheel	No			No			No businesses. Only one access (Page1)																					
Eugene	2361 Apache Court	612.325.6642		No					No					Yes	No	Yes		Yes	Issue is a big word. We have an opportunity to improve certain walking lanes that abruptly end instead of connecting to other passages.	No		No																										
Anders Hendrickson	737 Mohican Ct	7638987182	andersandannie@gmail.com	No					No					No	Yes	No		No		No			No																									
Tom Bonnett	2143 Aztec Lane	651-387-1492	thomasbonnett01@gmail.com	No					Yes	After big rain storms	In the spring - during snow melt			No	No	No		Yes	My daily bike rides and walks take me to every corner of Mendota Heights. People still text and drive. They do not stop at stop signs. Speed is excessive nearly everywhere. This is particularly noticeable near schools, parks, and residential areas such as St. Thomas Academy, and Visitation. I have nearly been wiped out by parents and students when making the mistake of biking there when school is letting out. Also, the stop lights at Dodd/ Mendota Heights Road and the 494 exits and Dodd/62 are ridiculous. Trust us to navigate a flashing yellow turn arrow, or at least time them to not guarantee Dodd Road drivers aren't stopped at every light, every time.	No			Yes	I have notified the Mayor and City Council that we need to install signage and fencing to protect wildlife around our ponds. At the very least, "Turtle Crossing" signs should be installed near ponds.				We are about to do a complete bathroom renovation and are concerned that the improvements being discussed might result in assessments. We would like to avoid this if possible. Would also appreciate it if wildlife were taken into consideration regardless of project. It perplexes me how people think Mendota Heights boasts having trailheadlessness, etc. and yet little seems to be done to ensure animals aren't casualties of our "progress."																				
Gary Fischbach	2150 Fox Place	6512476735	freschfisch@gmail.com	No					No					No	No	No	Not sure	Yes	Possible sidewalk on east side of Dodd from Plaza Drive to Creek	No		No																										
Patricia Angell	749 Pontiac Pl	651-338-9162	pangell1000@gmail.com	No					No					No	No	No	Since I do not live on Decorah, nor is it normal for us to bike, walk, or park on that segment of Decorah. I do not feel my input should be weighted as much as people that have a greater stake in this decision.	Yes	It is difficult to make a left hand turn from Keokuk Lane onto Dodd Road during rush hours. Many people speed coming north on Dodd Road and there is a hill there that obstructs the view. Too many garbage trucks!	No		Yes	Always wondered why Wagon Wheel Trail gets a big green sign with an arrow on Dodd road and Decorah does not, but I assume that is a MnDot thing not the city.	not applicable	Thank you for asking.																							
Tom Knuth	740 Mohican Court	6516213113	knu772@comcast.net	No					No					No	Yes	No		No										Noticed curb removal marked in bridgeview shores seems like overkill some curb marked for removal only has a single crack with no settlement or spalling who is marking the curb																				
Alison	796 Hokah Ave	6125818480	anober09@hotmail.com																																													
Mary Ullman	814 Hazel Ct	6513610899	maryullman@gmail.com	Yes	After big rain storms					Pudding at NW corner of intersection of Pagel, Hazel, and Havenview				No	No	Yes		Yes	Walking along Dodd	No		No																										
Anthony Herbert	2158 Fox Place	6513075969	ahet99376@msn.com	No					No					No	No	Yes		Yes	Dodd road and Creek Ave needs a marked crosswalk. Mendakota and Dodd is another location that could use a marked crosswalk.	No		No						Bigest issue for me and my family is lack of safe crossing close to Mendakota Park. The crossing at South Plaza Dr is inconvenient and not very safe.																				
David Wolkowicz	2350 Pagel rd	6514029594	Wolkowicz.david@gmail.com	No					No					No	No	Yes		Yes	The turn from Dodd to Pagel	No		Yes	pagel/apache should be a 4 way stop instead of 3 way																									
Mark Enderlein	2352 Pueblo Drive	6128196567	enderlein@att.net	Yes			After almost any rain or melting event		No	Excess puddling in street on west side of intersection in front of ours and neighbors house.				No	No	No		Yes	Dodd road too busy, too fast. Need more speed enforcement.	No		No						No sidewalks, no street lights. We want to stay a quiet community.																				
Craig Borchard	677 Ocala Lane	6516867644	borchardcraig@gmail.com	No					No					No	No	No		No		No																												
Ken Weisenburger (scubaman34@gmail.com)	2350 Pueblo Drive	6513033220	Scubaman34@gmail.com	Yes			After almost any rain or melting event		No	From the last paving the pavement was not laid right it drain away and instead puddles in the street.				Yes	No	Yes	Alternatives to walking or biking to the shopping center are welcome. Dodd Road is very dangerous.	No		No																												
Laurie Rosenuau	731 Keokuk Lane	6122509316	llrosenau@comcast.net	No					Yes	After big rain storms				No	No																																	
Chuck Parsons	2332	6512077256	parsonschuck2@gmail.com						No																																							
Michael Farley	2281 Ocala Court 5520	6513033646	Michael@ffpartners.com	Yes	After big rain storms	In the spring - during snow melt			No	After snow melts the water pools on south east side of Cul De Sac				Yes	No	No	I do not this is a problem. Everyone seems to deal with the lack of path in this section right now. Leave the parking.	Yes	Intersection of Ocala Lane and Decorah Lane. The left onto Decorah from Ocala is dangerous since the light is blocked by a turn and vegetation	Yes	Intersection of Ocala Lane and Decorah Lane	Yes	Intersection of Ocala Lane and Decorah Lane. A stop sign or traffic calming would be nice. This was promised to the residents back in early 2000's. Traffic calm would be good																									
Paul	2163 Aztec Ln	6122494517	paulheinicke@g	No					No					No	No	No		No		No		No																										
Mike Regan	2345 Pueblo Drive	651 452 5189	Mikeandgailregan@comcast.net	Yes			After almost any rain or melting event		No	Low spot in front of our house. It was put in for drainage but hasn't worked since the street was put in 30 years ago. It always has standing water in it				Yes	No	No		No		No		No																										
Kate Christensen	2280 Ocala Ct	612-695-8109	Kchris9292@gmail.com	Yes	After big rain storms	In the spring - during snow melt	After almost any rain or melting event		No	At the end of our driveway a pool forms after any rain and an entire lake in the spring				Yes	No	Yes		Yes	The traffic on Decorah is excessive and fast. It is used as a pass through to Huber rather than using Mtn road.	No		No																										
Julie Farley	2281 Ocala Court	6513033647	juliefarley@comcast.net	Yes			After almost any rain or melting event		No	Standing water in cul de sac				Yes	No	No	It serves its purpose- people are walking comfortably and safely-for the amount of use it gets now.	Yes	Ocala Lane and Deborah Lane is a dangerous corner. A three way stop would solve this issue.	Yes	Shrubbery taking a left from Ocala Lane to Decorah Lane	Yes	Ocala Lane to Decorah Lane should have a stop sign or at the very least traffic calming																									
Dean McDowell	695 Apache Lane	417-429-5879	mckindow2@sbcglobal.net	No					No					No	No	No	We have plenty of walking trails without spending money on more.	Yes	People speed on Huber between Mendota Heights road and Delaware. And on Mendota Heights road between Dodd and Delaware	No		No						The spot patching of potholes is horrible. Macadam is washed away or is plowed into our front lawns and other greenways																				
Chuck Parsons	2332	6512077256	parsonschuck2@gmail.com						No									No	Getting out of the neighborhood on to Dodd Road is an issue (from Creek or Hokah). Traffic is busy especially with added apartments.	Yes</																												

Name	Address	Phone	Email	Are you aware of any drainage issues on the roadways within the neighborhood?	If yes, when? (CHECK ALL THAT APPLY)	Please describe the drainage issues in the space below:	Do you experience drainage or erosion issues on your private property?	If yes, when? (CHECK ALL THAT APPLY)	Please describe the private drainage or erosion issues in the space below:	Do you have an underground lawn irrigation system in the City right-of-way? (Typically the right-of-way is 12' to 20' behind the roadway.)	Do you have any private wiring or pipes (i.e. invisible fence or sump drain outlet) in the City's right-of-way?	An off-street trail exists today along Decorah Lane between Dodd Road and Apache Street. Do you feel the City should consider allowing a trail along the south side of Decorah Lane between Apache Street and Pueblo Lane? To make space available for a trail, on street parking would be removed along the south side of Decorah Lane within this segment.	Please provide additional comment here:	Do you feel the neighborhood has any pedestrian or traffic issues (e.g. crossing adjacent to busy roadways, parking, excessive speed, traffic volumes, etc.)?	If yes, where?	Are there intersections in the neighborhood where obstructions (trees, landscaping, etc.) make sight distance challenging?	If yes, please describe the obstruction and location:	Do you feel there are locations in the neighborhood that require modifications to existing signage?	If yes, where?	Construction may disrupt the free flow of traffic and block access to properties at travel times. Please describe the access needs, delivery schedule, hours of operation, and labor force schedule for your business if applicable.	Additional Comments/Questions:				
Open-Ended Response	Open-Ended Response	Open-Ended Response	Open-Ended Response	Response	After big rain storms	In the spring during snow melt	After almost any rain or melting event	Open-Ended Response	Response	After big rain storms	In the spring during snow melt	After almost any rain or melting event	Open-Ended Response	Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Open-Ended Response		
Mary Melzarek	717 Navajo Lane	651-983-4478	Mem6328@gmail.com	No					No					No	No	No	People can walk or bike on the shoulder. The City should consider reducing the speed limit on all residential streets. Plus, the homes on Decorah don't have very big yards, taking that away for a sidewalk or trail would not be fair.	Yes	Speed is a big issue. Decorah as well as Pueblo by the park. Pueblo is a straight shot for speeders. Not good by a park & with pedestrians.	Yes	Large pine tree on corner of Apache & Keokuk	Yes	Reduce residential street speed limits, and post it.	Not applicable	Please be more concise in your letters and mailings. You reference an improvement project but give no details. Are you going to widen the streets? Lessen them? Or is it just drainage? Our property taxes are going to be impacted, so be up front & tell us what you're kicking around...."improvement" is rather subjective.
Stephen Knetz	800 Havenview Ct.	6125321808	stephen@sgk3.com	No					No					Yes	No	Yes		Yes	The primary issues are the intersections with Dodd rd	No		No			
Tom Orfei	766 Havenview Court	6515873436	torfei@comcast.net	Yes			After almost any rain or melting event	Curbng and roadway has settled in front of 766 Havenview from catch basin on the west to city trail on the east.	Yes	After big rain storms	In the spring - during snow melt		Sidewalk has settled in front of CB. I believe it is technically city right-of-way.	Yes	No	Yes		No		No		No		City trail/sidewalk at sidewalk intersection is severely cracked. This is at the east property line of 766 Havenview Ct. Along concrete section 20ft +/- to the south is a heaving, Trip hazard?	
Prout	680 cheyenne lane	651-353-9744	prout60@gmail.com	Yes			After almost any rain or melting event	Only one storm drain from corner to third house down causes puddles in street, driveways.	No					No	No	No		No	Dodds and Delaware are much busier. Speed is a problem	No		No			
Michael Winters	774 Mohican lane	6513154107	Mikew106109@gmail.com	Yes		In the spring - during snow melt		My driveway at 774 Mohican lane has a very large buildup of ice during the winter months. The ice buildup happens where the street and my driveway connect. This buildup is causing damage to the driveway and results in driveway wide ice buildup about 3-4 inches thick. It is approximately 15 feet in length and 5 feet wide during the winter months. A storm drain on the uphill side of my driveway would relieve this issue.	Yes	After big rain storms	In the spring - during snow melt		West side of my property has drainage issues as well as my backyard after large rainstorms and spring melt.	No	No	Yes	Compensate for additional parking plans.	No		No		Yes	It's a long shot but, neighborhood lights would help prevent auto theft break ins in the neighborhood, as well as provide more safety to those walking in the dark.		
Stephanie Collette	2130 Fox Place	6513437484	scollette10@gmail.com	No					No					No	No	Yes		Yes	South plaza drive and Dodd	No		No			
Caleb Churchill	676 Cheyenne Lane	6512529248	caleb.churchill@wwof.com	Yes			After almost any rain or melting event	There is a low spot at the bottom of my driveway, 676 Cheyenne Lane. Water and ice gather there and have caused damage to the road and to my driveway.	Yes	After big rain storms	In the spring - during snow melt		In between my property and the neighbors to the east. The grade from behind the houses all drains in between the houses. The drainage comes from multiple properties behind our houses.	Yes	No	Yes		No		No		No		Will there be an option to have the full driveway replaced as well?	
Chuck Parsons	2332	6512077256	parsonschuck2@gmail.com																						
Benjamin Saxon	2374 Apache Court	6123860311	benjaminlsaxon@gmail.com	No					Yes	After big rain storms	In the spring - during snow melt		We have a drainage issue after large rains on the left side of our house when looking at it from the front. The water sits and doesn't drain to the street.	No	No	Yes		No		No		No			
Cynthia T	724 Pontiac Place	6516951762	cynthia.templin@house.mn	No					No					No		No	Such a trail is needed elsewhere such as along Delaware.	Yes	Excessive speed on Decorah/Pontiac, running the stop sign.	No		No			
Maya Wolkowicz	2350 Pagel road	7638073384	Maya.wolkowicz@gmail.com	No					Yes				We haven't noticed it, but our house inspector did when we bought the house in 2022.	No	No					No		Yes	Yes! As written above, an extra stop sign at Pagel and Keokuk for cars coming from Dodd Road.		
Julie Torn	795 Hokah Ave	6512740343	Julietoth63@hotmail.com	No					No					No	No	Yes	Car drivers don't pay any attention so it's a safety issue without the sidewalk	Yes	Dodd Road. I watch them speed all day/night long.	Yes	Dodd and Hokah. Very Big 3 trunk maple tree	No		Disability in the house prevents walking far. Would need close parking for that individual.	
Linda Macklem	761 Keokuk Lane	6514923371	lindamacklem@hotmail.com	No					No					Yes	No	No	There is plenty of road space for walkers and bikers. No need to designate further trails on east side of Dodd	Yes	Dodd road has been badly designed in the past few years. It is difficult to get onto Dodd from any side streets between 494 and crosstown! No consideration is being given to residents in the area.	No		No			
Derek Meyer	772 KEOUK LANE	6125974094	derekjmeyer@gmail.com	No					No					No	No	Yes			Dodd & Keokuk: cars fly down Dodd especially during rush hour. Trying to get onto Dodd from Keokuk can be very difficult. Same issue at Dodd & Decorah. There should probably be a stop signs in both directions at Dodd/Keokuk. And I think a roundabout would be good at Dodd/Decorah. Something to force people to slow down because as it is now Dodd is a thoroughfare between 494 and 62.	No		No		N/A	
John	Maczko	751 Cheyenne Lane	john.maczko@comcast.net	No				Had drainage issues but they were resolved with 1994 project	No					Yes	Yes	Yes	Yes it would be nice however those directly impacted on Decorah should have input. We don't walk Decorah because there is no trail but Cheyenne and Pontiac Place/Navaho are very walkable so we use them.	No		No		No		No	
Tim Olson	2286 Nasshus Ln	6128593232	timolson98@gmail.com	No					No					No	No	Yes		No		No		No			
Sheila Hilo	2225 Apache St	6514544728	sheilahilo@gmail.com						No					No	No	Yes		No		No		No			
Matthew Beniak	783 Havenview Court	9527973030	Courtneybeniak@gmail.com	No					No					Yes	No	Yes	A sidewalk would be great on Dodd to connect Decorah/Pagel to Mendota park.	No		No		No			
Nanci Fine	712 Decorah lane	6512958029	jcars1@hotmail.com	No					No					No	No	Yes	On street parking currently creates a safety hazard for any pedestrian on Decorah Ln. High rates of speed and careless driving further increase danger to pedestrians	Yes	Decorah lane near friendly hills park, too many accidents, speed limit 25 etc. Decorah lane is the unofficial shortcut to developments on Huber or to Delaware as a means of avoiding 62 or Dodd to Mendota. Too dangerous to cross the street to the mailbox, vehicles will not move for pedestrians. 4 way stop on Decorah is constantly ignored and no police enforcement period.	No		Yes	Stops at all cross streets, speed limit postings and reduction in speed limit		
Reed Larson	2136 Fox Place	6512632443	Lars3084@gmail.com	Yes	After big rain storms	In the spring - during snow melt		Drainage comes down the "path" from Dodd across our street and overflows causing icy spots/blockages for the sewer in winter	No					No	No	Yes	I often walk along these streets with my children to get to friendly hills park.	Yes	Dodd and Deborah intersection can be difficult to see faster traffic coming	Yes	Dodd and Deborah intersection can be difficult to see traffic coming	No		Need to be able to leave our neighborhood in the AM to take children to daycare, before 8AM	
Andrew Wilson	2354 Pagel Rd	612-309-2515	wils0406@gmail.com	No					No					No	No	Yes		No		No		No			
Mark Collins	744 Pontiac place	6514705428	mwcollins666@gmail.com	No					No					No	No	No		No		No		No		None	
DeeDee Luger	777 Keokuk Ln	6516001760	ddluger@gmail.com	No					No					No	No	Yes	Need stop signs intersections on Keokuk. Large trees block intersections unable to see oncoming traffic	Yes	Keokuk and Apache intersection	Yes	Stop signs not yield signs				

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Open-Ended Response	Open-Ended Response	Open-Ended Response	Open-Ended Response	Response	After big rain storms	In the spring during snow melt	After almost any rain or melting event	Open-Ended Response	Response	After big rain storms	In the spring during snow melt	After almost any rain or melting event	Open-Ended Response	Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Response	Open-Ended Response	Open-Ended Response			
John Werner	799 Havenview Ct	6519832679	jwwerner@gmail.com	No					No				Yes	Yes	No		Yes	At Keokuk and Pagel, there should be a stop sign for traffic going south on Pagel. This is a confusing intersection, making it unsafe for kids and creates a speed issue for families living on south on Pagel. It's not uncommon, for cars to go 40+ mph coming off Dodd	No	Yes	Stop sign at Keokuk and Pagel					
Jennifer schilling	771 Creek Avenue	6513388849	jrschilling20@gmail.com	No					No				No	No			No		No							
Rachel Werner	799 Havenview Ct	563700421	rachel.magoon@gmail.com	No					No							Yes	Havenview Ct, Hazel And Pagel Rd. There is not a yield or stop sign at the three way intersection and cars do not slow or yield. There are children that live and play in the neighboring yards and pedestrians crossing the roads which make it dangerous while cars are not yielding or stopping.		Yes	Hazel Ct, Havenview Ct, and Pagel. Can you add a yield or stop sign or move the weird third stop sign from down the road on Pagel and Keokuk to the corner of Pagel, Hazel and Havenview?						
Jeff Domler	772 Havenview Court, Mendota Heights, MN, USA	6512060448	jeff.domler@gmail.com	No					Yes	After big rain storms			water pools on sidewalk	Yes	No	Yes		Decorah Lane at Apache is difficult to cross as a pedestrian due to vehicle volume and speed on Decorah.	Yes	Havenview Ct and Pagel. The trees at the northwest corner blinds cars approaching from Hazel Ct.	No	We live on Havenview court. If our street and Pagel are shut down to vehicles we will be parking 1/2 mile away. this is NOT feasible to walk groceries etc through construction.	What can we expect from a time table? What are the time amount where streets will be blocked for traffic?			
Paul Skogheim	2279 OCALA COURT	6514528859	pmskogheim@aol.com	Yes	After big rain storms	In the spring - during snow melt	After almost any rain or melting event	Large area of water at the end of our driveway is primary for us. Our neighbor has a huge water area at the end of their driveway.	No				Yes	No	No		Difficult to see when turning onto Decorah In from Ocala Ln due to trees blocking visibility.	Yes	See above.	No		NA				
Renee Gutzman	730 Navajo Lane	6127305421	Eener81@gmail.com	Yes		In the spring - during snow melt		Most likely the sewer drain is blocked or frozen over causing a slow melt	No				No	No	Yes		Decorah seems to have some speed issues.	No		No						
Emily Harrison	2391 PAGEL RD	6513669197	moesimone@gmail.com	No					No				No	No	Yes		Southbound Pagel Road cars are driving way too fast exiting off of Dodd. intersection of Keokuk and Pagel should be a 4-way stop. Intersection of Pagel Road and Havenview Ct should be a 4-way stop also - currently no signage.	No		Yes	Southbound Pagel Road cars are driving way too fast exiting off of Dodd. intersection of Keokuk and Pagel should be a 4-way stop. Intersection of Pagel Road and Havenview Ct should be a 4-way stop also - currently no signage.					
Lawrence Lukoskie	679 Ocala Lane	6123968906	Larry.Jukoskie@gmail.com	No					No				Yes	No	Yes			No		Yes	Intersection of Decorah and Ocala Lane looking east, scrubs.	Yes	Speed Limit on Decorah			
Susan Kahler	681 Cheyenne Lane	651-454-8687	Wskahler@gmail.com	Yes	After big rain storms				No				Yes	No	Yes			No		No						
William lew	726 decorah lane	6514927790	Williamlew7@gmail.com	No					No				No	No	No		People not stopping at corner of Pontiac and Decorah	No		No						
Ramalah Muthyalu	699 Apache Lane	6122026168	Muthy003@umn.edu	Yes			After almost any rain or melting event	Water/ice stagnant. The road (cul de sac) is much higher than drive way. We have been in this since 1990. It is happening only after last road surfaced may be 10+ years ago. Road freeze. The front of the drive looks very bad. Sometimes the drainage gets blocked even though we clean the leaves etc before winter. Also the snow plow puts entire snow on our yard next to fire hydrant. Because salt on the road ends up on the lawn. Understand snow has to go somewhere. We suggest instead of dumping on the lawn excess snow may be placed on the center of the circle. Please call if this is something can be fixed.	No				No	No			Yes	Parents to pick up school kids park their cars. It is alright but some block the mail box.	No							
Rich gabriel	670 apache ln	6514700442	Rich@ gabriellawoffice.com	No					No				Yes	Yes			No		No		No					
Randy Swenson	775 Creek Avenue	651-454-4780	coldwater99999@gmail.com	Yes	After big rain storms			Water from Dodd Road just North of Creek Avenue is directed East between properties on Creek and South Plaza Drive.	Yes	After big rain storms	In the spring - during snow melt		My back yard has had some plants and plant guards washed away due to flooding. I talked with an engineer from the City a couple of years ago who said that you could not do anything in my backyard after coming out to my property along with a person who was in charge of other projects but it never happened.	No	No	No		Yes	Seriously? Kind of ludicrous for the City to approve 2 new multi-story apartment buildings between South Plaza Drive and Highway 62 and now ask if there are traffic issues. Too much traffic at those times, making a left turn from Creek Avenue onto Dodd Road is hazardous at best and impossible at worst.	No		No				
Nick & Sara Augustin	664 Apache Lane	2623852147	augustnj@gmail.com	No					Yes	After big rain storms			We have some slopes and hills on our property.	No	No	Yes	I don't live on these blocks but I would benefit from having an off street trail extended.	Yes	People sometimes fly down Huber where there are pedestrian crossings at Decorah and Apache Ln. There are no street markings at Apache Ln either. Would prefer markings at Apache Ln and Huber and encouraging slower traffic on Huber either with 30mph speed adjustment or other street mechanisms like speed bumps. Even crossing Huber at Decorah (where there are markings) as a pedestrian can be uncomfortable in winter/ evenings when it is dark out as cars speed by.	Yes	The shrubs on the west side of Huber when pulling out of Apache Ln onto Huber.	Yes	Huber by Apache Ln.	N/A		
Craig Jaeger	2119 Aztec Lane	6516008289	craigjaeger@comcast.net	No					No				No	Yes	Yes		Yes	Traffic does not always stop at crosswalk on Dodd and often passes on the right of cars turning left where there is not lane to do so	No		No					
Dale Stein	784 Creek Ave	6517925882	dfstein20@yahoo.com	No					No				Yes	Yes	No		No		No		No					
James Wollack	672 Cheyenne Lane	6129912363	jwwollack@gmail.com	No					No				No	No	No	There is not enough traffic to warrant bike lanes or investments. Our neighborhood does not stand to benefit from this.	Yes	Add stop sign on cheyenne and ocean. People cut through at 40mph to save going through a stop sign on decorah.	No		No			No bike paths and no sidewalks are needed. The current setup serves the people that live here perfectly.		
Carey	716 Decorah Lane	6513674302	Cakm143@aol.com	No					Yes	After big rain storms	In the spring - during snow melt		The skinny area between our house and the neighbors house fills up with water.	No	No	No	There is already no parking on the north side of the street and it would be very difficult to have zero parking on both sides of our street.	Yes	On Dodd there is so much traffic it is difficult to get off of Decorah. Cars often speed on Decorah when we always have children/families walking and biking to Friendly Hills park and using the trails around the ponds etc.	No		Yes	More pedestrian signs and there are ample stop signs but often cars Do Not Stop!			
Joe nielsen	730 keokuk lane	952-913-7301	Joe_nielsen23@yahoo.com	Yes	After big rain storms	In the spring - during snow melt		Only has one sewage drain on keokuk and Pueblo. Everything floods and runs to 1 place	No				No	No	No		There is no where for walking around the trail system from mendota road to connect to the trails on Decorah via Dodd. Why is there no where to walk to connect to the trail on wagon wheel either in this space besides going all the way to Decorah. There are so many walkers and bikers that want to loop between the trails around the middle school and rogers lake but it is dangerous right now to do this.	Yes	Pine tree on keokuk and apache at yield	No						
mary rose turner	2138 Aztec Lane	6512600770	maryroseturner@yahoo.com	No					No				No	No	Yes	A sidewalk is definitely needed for safety purposes for those walking or biking on Decorah	Yes	Dodd road and Creek, very difficult to turn out of friendly Hills phase 1.	Yes	Dodd road and Hohah. There is a tree on Dodd Road just past Hohah. When trying to turn onto Dodd Road from Hohah you need to pull up until almost in Dodd to see if traffic is coming from the south on Dodd road.	No	I run a childcare out of my home so customers would need to be able to get to my home between 7:30am and 5pm Monday through Thursday.	Will you be cutting up our driveways to complete this project?			

